

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, October 23, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD

CANONSBURG, PA 15317

# Re: Permit approval for WOODFORD 4HM 47-051-02116-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

1 Jak

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 10/23/2018 WOODFORD 4HM CNX RCPC, LLC 47-051-02116-00-00 New Drill

Promoting a healthy environment.

# PERMIT CONDITIONS 4705102116

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

## **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:

# PERMIT CONDITIONS 4705102116

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-051

OPERATOR WELL NO. Woodford 4HM

Well Pad Name: Woodford

4705 02116

## <u>STATE OF WEST VIRGINIA</u> <u>DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS</u> <u>WELL WORK PERMIT APPLICATION</u>

1) Well Operator: Tu	ug Hill Operating, LLC	494510851	Marshall	Franklin	Powhatan Point 7
N		Operator ID	County	District	Quadrangle
2) Operator's Well Nu	umber: Woodford 4HM	Well P	ad Name: Wo	odford	
3) Farm Name/Surfac	ce Owner: CNX RCPC, L	LC Public Re	oad Access: Bu	irch Ridge Ro	oad (County Route 29)
4) Elevation, current	ground: 1250'	Elevation, propose	d post-construc	tion: 1233.	51
5) Well Type (a) Ga Other		Un	derground Stor	age	
(b)If	Gas Shallow X	Deep		Hr.	TN
6) Existing Pad: Yes of	Horizontal <u>×</u> or No <u>No</u>			08/2	3/18
	ormation(s), Depth(s), An et formation at a depth of 6330	ing the straight of Astronomy States	and the state of the second second		pressure of 3800 psi.
8) Proposed Total Ver	rtical Depth: 6480'				
9) Formation at Total		aga			
10) Proposed Total M	leasured Depth: 17,178				
11) Proposed Horizon	ntal Leg Length: 9,836.8	35'			
12) Approximate Fres	sh Water Strata Depths:	70' ; 805'			
	nine Fresh Water Depths: water Depths: 1,740 <sup>7</sup>	Use shallow offset wells to determine de	epest freshwaler. Or determine us	ng prødrill lests, tøsting while	drilling or petrophysical evaluation of resistivity
15) Approximate Coa	I Seam Depths: Sewickle	ey Coal - 701' and	Pittsburgh Co	oal - 799'	
	oth to Possible Void (coal		-29.5 N T T		RECEIVED Office of Oil and Gas
17) Does Proposed we	ell location contain coal so adjacent to an active mine	eams		0 <u>X</u>	AUG 1 4 2018 WV Department of
(a) If Yes, provide M	Aine Info: Name: Depth:				
	Seam:				
	Owner:				

API NO. 47-051 -

OPERATOR WELL NO. Woodford 4HM Well Pad Name: Woodford

18)

WW-6B

(04/15)

## CASING AND TUBING PROGRAM

4705 102116

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (1b/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259ft^3(CTS)
Fresh Water	13 3/8"	NEW	J55	54.5#	905'	905'	979ft^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	905'	905'	979ft^3(CTS)
Intermediate	9 5/8"	NEW	J55	36#	2700'	2700'	895ft^3(CTS)
Production	5 1/2"	NEW	P110	20#	17,178'	17,178'	3864ft^3(CTS)
Tubing	2 3/8"	NEW	N80	4.7#	6,865'		
Liners				1			

J8/8/18

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	13 3/8"	17.5"	.33	2,740	2,192	SEE#24	1.2
Coal	13 3/8"	17.5"	.33	2,740	2,192	SEE #24	1.2
Intermediate	9 5/8"	12 1/4"	.352	3,520	2,816	SEE #24	1.19
Production	5 1/2"	8 7/8_8 3/4	.361	12,640	10,112	SEE #24	1.17/1.19
Tubing	2 3/8"		.19	11,200	8,960		
Liners							

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## PACKERS

 Kind:
 N/A
 WV Department of Environmental Protection

 Sizes:
 N/A

 Depths Set:
 N/A

WW-6B (10/14)

API NO. 47-051	÷
OPERATOR W	ELL NO. Woodford 4HM
Well Pad	10 W50dford 02116
	Miglis -
	02/81

BI

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Marcellus tagging less than 100' from the top of the Onondata to get depths and log data. Plug back to proposed kick off point. Drill the horizontal section to planned and proposed TD. Run casing and cement to surface. Run Bond Log from app. 60 deg to surface. Make clean out run and stimulate.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well to be completed with approximately 24,857,500 lb. proppant and 380,141 barrels of water. Max rate = 80bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 44.34 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.01 acres

23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate will have 1 centralizer every other joint. Production casing will have one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

24) Describe all cement additives associated with each cement type:

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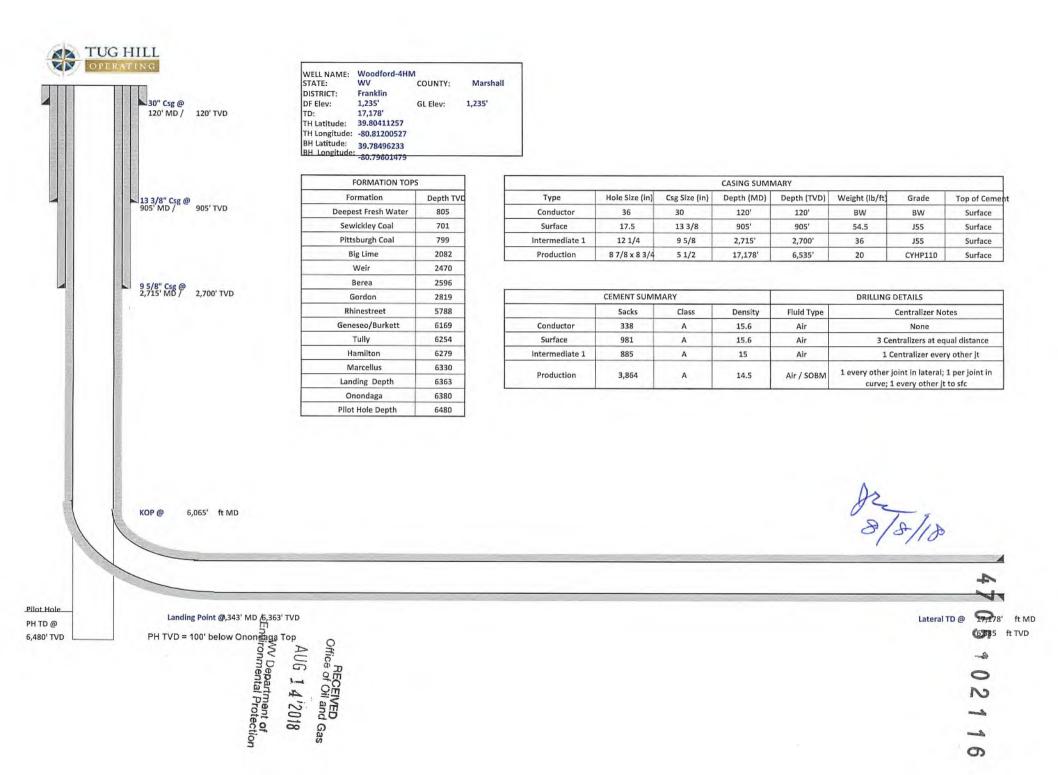
WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

\*See attachment

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH.

\*Note: Attach additional sheets as needed.





## Tug Hill Operating, LLC Casing and Cement Program

## Woodford-4HM

		Casing							
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up				
Conductor	30"	BW	36"	120'	CTS				
Surface	13 3/8"	J55	17 1/2"	905'	CTS				
Intermediate	9 5/8"	J55	12 1/4"	2,715'	CTS				
Production	5 1/2"	CYHP110	8 7/8 x 8 3/4	17,178'	CTS				

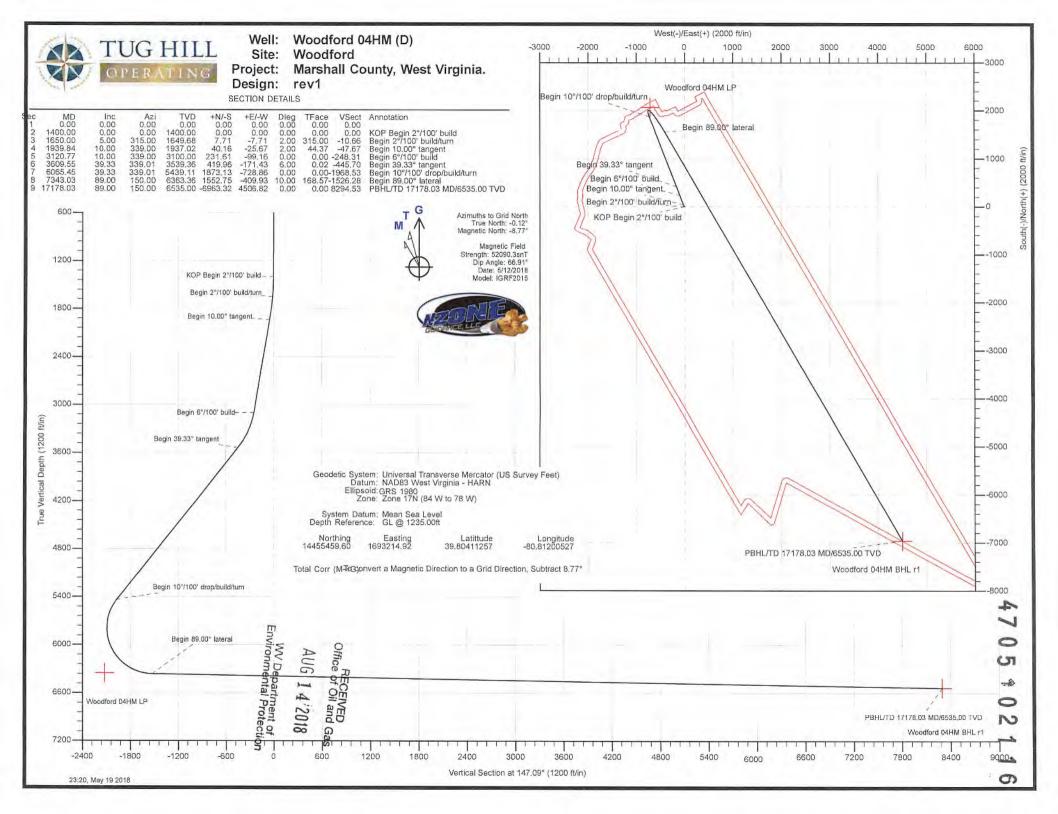
## Cement

Conductor:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Conductor Cement mixed at 15.6 ppg, Y=1.2
Surface:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2
Intermediate:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.19
Kick Off Plug:	Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L - KOP Plug
Production:	50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA- 170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L – Production Cement mixed at 15.2ppg, Y = 1.19

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WV Department of Environmental Protection





## Planning Report - Geographic

Company: Project: Site: Well: Wellbore: Design:	Tug H Marsh Woodf Woodf	DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia. Woodford Woodford 04HM (D) Origina Hole rev1 Marshall County, West Virginia.				ordinate Refe ence: ence: erence: Iculation Met	1	Well Woodford 0444 (2) 5 * 0 2 1 GL @ 1235.00ft Grid Minimum Curvature			
Project	Marsha	II County, We	est Virginia.								
Map System: Geo Datum: Map Zone:	NAD83 V	I Transverse Vest Virginia N (84 W to 78		Survey Feet)	System Dat	um:	Me	ean Sea Level			
Site	Woodfo	ord									
Site Position: From: Position Uncertain		Northing: Lat/Long Easting: : 0.00 ft Slot Radius:			1,693,217.70 usft Longitude: -80.81199					39.80414597 -80.81199526 0.12 °	
Well	Woodfo	rd 04HM (D)		antenne en sadan						and a second	
Well Position Position Uncertain	+N/-S +E/-W		0.00 ft I	Northing: Easting: Wellhead Eleva		14,455,459.61 1,693,214.92	usft Lor	itude: ngitude: nund Level:		39.80411257 -80.81200527 1,235.00 ft	
Wellbore	Origina	a Hole			n - Yuu - Constant - Co						
Magnetics	Мо	del Name	Sam	ple Date	Declina (°)	tion	Dip A (°			Strength (nT)	
		IGRF201	5	5/12/2018		-8.65		66.91	52,	090.29592058	
Design Audit Notes: Version:	rev1										
Vertical Section:			Depth From (		⊃LAN +N/-S (ft)	+E	On Depth: :/-W ft)	Dire	0.00 ection		
Vertical Section:						+E (	A CONTRACTOR OF	Dire (			
Plan Survey Tool P Depth From (ft) 1 0.0	Depth (ft)	Date	Depth From ( (ft) 0.00 5/19/2018 y (Wellbore)		+N/-S (ft)	+E ( 0.	:/-W ft)	Dire (	ection (°) 7.09	AUG 1 4 2018	
Plan Survey Tool P Depth From (ft) 1 0.0 Plan Sections Measured	Depth (ft)	Date 1 To ) Surve	Depth From ( (ft) 0.00 5/19/2018 y (Wellbore)		+N/-S (ft) 0.00 Tool Name MWD	+E ( 0.	ft) 00	Dire (	ection (°) 7.09	RECEIVED Office of Oil and G AUG 1 4 2018 WV Department of WV Department of the	
Plan Survey Tool P Depth From (ft) 1 0.0 Plan Sections Measured Depth Inc	Depth (ft) 0 17,1 lination	Date n To ) Surve 78.03 rev1 (( Azimuth	Depth From ( (ft) 0.00 5/19/2018 y (Wellbore) Drigina Hole) Vertical Depth	TVD) +N/-S	+N/-S (ft) 0.00 Tool Name MWD MWD - Standa	+E ( 0. urd Dogleg Rate	E/-W ft) 00 Remarks Build Rate	Dire ( 14 Turn Rate	ection (°) 7.09 En	AUG 1 4 2018 WV Department of wironmental Protect	



Planning Report - Geographic

# 4705102116

 Database:
 DB\_Jul2216dt\_v14

 Company:
 Tug Hill Operating LLC

 Project:
 Marshall County, West Virginia.

 Site:
 Woodford

 Well:
 Woodford 04HM (D)

 Wellbore:
 Origina Hole

 Design:
 rev1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Woodford 04HM (D) GL @ 1235.00ft Grid Minimum Curvature RECEIVED Office of Oil and Gas

## AUG 1 4'2018

leasured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting	WV Depart Environmenta	Protection
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
100.00	0.00	0.00	100.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.81200
200.00	0.00	0.00	200.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
300.00	0.00	0.00	300.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
400.00	0.00	0.00	400.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
500.00	0.00	0.00	500.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
600.00	0.00	0.00	600.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
700.00	0.00	0.00	700.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
800.00	0.00	0.00	800.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
900.00	0.00	0.00	900.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80.8120
	0.00	0.00	1,200.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-80,8120
1,200.00	0.00	0.00	1,300.00	0.00	0.00		1,693,214.92	39.80411257	-80.8120
1,300.00						14,455,459.61			-80.8120
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,455,459.61	1,693,214.92	39.80411257	-00,0120
1,500.00	jin 2°/100' bui 2.00	315.00	1,499.98	1.23	-1.23	14,455,460.84	1,693,213.68	39.80411597	-80,8120
1,600.00	4.00	315.00	1,599.84	4.93	-4.93	14,455,464.54	1,693,209.98	39.80412615	-80.8120
1,650.00	5.00	315.00	1,649.68	7.71	-7.71	14,455,467.32	1,693,207.21	39.80413379	-80.8120
	/100' build/tur		1,010.00			1 1, 100, 101.02	1,000,201.21		
1,700.00	5.76	321.99	1,699,46	11.23	-10.79	14,455,470.83	1,693,204.12	39.80414346	-80.8120
1,800.00	7.45	331.41	1,798.80	20.87	-16.98	14,455,480,47	1,693,197.93	39.80416998	-80.8120
1,900.00	9.26	337.26	1,897.74	33,98	-23.19	14,455,493.58	1,693,191.72	39.80420601	-80.8120
1,939.84	10.00	339.00	1,937.02	40.16	-25.67	14,455,499.77	1,693,189.24	39.80422301	-80,8120
	.00° tangent		11001102	10110		11,100,100,11	Head Loose 1		
2,000.00	10.00	339.00	1,996.26	49.91	-29.42	14,455,509.52	1,693,185.50	39.80424982	-80.8121
2,100.00	10.00	339.00	2,094.74	66.13	-35.64	14,455,525.73	1,693,179.28	39.80429437	-80.8121
2,200.00	10.00	339.00	2,193.22	82.34	-41.86	14,455,541,94	1,693,173.05	39.80433893	-80.8121
2,300.00	10.00	339.00	2,291.70	98.55	-48.09	14,455,558.16	1,693,166.83	39.80438349	-80.8121
2,400.00	10.00	339.00	2,390.18	114.76	-54.31	14,455,574.37	1,693,160.61	39.80442805	-80.8121
2,500.00	10.00	339.00	2,488.66	130.97	-60,53	14,455,590.58	1,693,154.38	39.80447260	-80.8122
2,600.00	10.00	339.00	2,488.00	147.18	-66.76	14,455,606,79	1,693,148.16	39.80451716	-80.8122
	10.00	339.00		163.39	-72.98			39.80456172	-80.8122
2,700.00			2,685.63			14,455,623.00	1,693,141.94		
2,800.00	10.00	339.00	2,784.11	179.61	-79.20	14,455,639.21	1,693,135.71	39.80460627	-80.8122
2,900.00	10.00	339.00	2,882.59	195.82	-85.42	14,455,655.42	1,693,129.49	39.80465083	-80.8123
3,000.00	10.00	339.00	2,981.07	212.03	-91.65	14,455,671.64	1,693,123.27	39.80469539	-80.8123
3,100.00	10.00	339.00	3,079.55	228.24	-97.87	14,455,687.85	1,693,117.05	39.80473994	-80.8123
3,120.77	10.00	339.00	3,100.00	231.61	-99.16	14,455,691.21	1,693,115.75	39.80474920	-80.8123
	/100' build	220.04	2 477 27	247 46	-105,25	11 455 707 00	1 000 100 07	20 80470276	00 0102
3,200.00	14.75	339.01	3,177.37	247.46		14,455,707.06	1,693,109.67	39.80479276	-80.8123
3,300.00	20.75	339.01	3,272.56	275.91	-116,16	14,455,735.52	1,693,098.75	39.80487097	-80.8124
3,400.00	26.75	339.01	3,364.05	313.50	-130.59	14,455,773.11	1,693,084.33	39.80497429	-80.8124
3,500.00	32.75	339.01	3,450.83	359.82	-148.35	14,455,819.43	1,693,066.56	39.80510158	-80.8125
3,600.00	38.75	339.01	3,531.94	414.35	-169.27	14,455,873.96	1,693,045.64	39.80525146	-80.8126
3,609.55	39.33	339.01	3,539.36	419.96	-171.43	14,455,879.57	1,693,043.49	39.80526689	-80.8126
100 C	.33° tangent	220.04	2 600 22	170 10	101.00	14 455 000 00	1 000 000 00	20 205 44000	00.0400
3,700.00	39.33	339.01	3,609.33	473.48	-191.96	14,455,933.09	1,693,022.96	39.80541399	-80.8126
3,800.00	39.33	339.01	3,686.68	532,65	-214.65	14,455,992.26	1,693,000.26	39.80557662	-80.8127
3,900.00	39.33	339.01	3,764.04	591.82	-237.35	14,456,051.43	1,692,977.56	39.80573924	-80.8128
4,000.00	39.33	339.01	3,841.39	650.99	-260.05	14,456,110.60	1,692,954.87	39.80590187	-80.8129
4,100.00	39.33	339.01	3,918.75	710.16	-282.75	14,456,169.77	1,692,932.17	39.80606450	-80.8130
4,200.00	39.33	339.01	3,996.10	769.33	-305.44	14,456,228.94	1,692,909.47	39.80622713	-80.8130
4,300.00	39.33	339.01	4,073.45	828.50	-328.14	14,456,288,11	1,692,886.77	39.80638975	-80.8131
4,400.00	39.33	339.01	4,150.81	887.68	-350.84	14,456,347.28	1,692,864.08	39,80655238	-80,8132



### Planning Report - Geographic

# 4705102116

Planned Survey			AUG 14 2010
Design:	rev1		AUG 1 4 2018
Wellbore:	Origina Hole		Office of Oil and Gas
Well:	Woodford 04HM (D)	Survey Calculation Method:	Minimum Curvature RECEIVED
Site:	Woodford	North Reference:	Grid
Project:	Marshall County, West Virginia.	MD Reference:	GL @ 1235.00ft
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1235.00ft
Database:	DB_Jul2216dt_v14	Local Co-ordinate Reference:	Well Woodford 04HM (D)

(ft)         (ft) <th< th=""><th>Measured Depth</th><th>Inclination</th><th>Azimuth</th><th>Vertical Depth</th><th>+N/-S</th><th>+E/-W</th><th>Map Northing</th><th>Map Easting</th><th>WV Depa Environment</th><th>artment of al Protection</th></th<>	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting	WV Depa Environment	artment of al Protection
4.600.00       38.33       330.01       4.305.52       10.66.19       -148.33       14.456.5247.61       1682.785.68       38.0704.026       -89         4.600.00       38.33       330.01       4.462.23       1124.36       -441.83       14.456.634.36       11682.75.98       38.0726228       -89         4.600.00       38.33       330.01       4.673.51       1138.135       144.657.21       14.676.41.33       14.662.75.19       93.80726528       -89         5.000.00       38.33       330.01       4.674.24       1.242.70       -467.03       14.465.70.11       1682.705.18       93.8076807       -86         5.000.00       38.33       330.01       4.672.64       1.301.87       -555.12       14.465.876.81       1.662.265.26       93.8076807       -86         5.000.00       38.33       330.01       4.677.82       1.466.878.61       1.662.265.26       93.8076807       -86         5.600.00       38.33       330.01       5.077.20       1.682.256.86       1.980.246.41       93.80048102       -86         5.600.00       38.33       330.01       5.071.00       1.597.72       -422.21       1.4477.244.85       1.682.256.201       93.80048503       -96         5.600.00       38.33				and the second second				and the second se	Latitude	Longitude
4.600.00       39.3       33.0.01       4.305.52       10.66.02       -939.23       14.456,852.47       10.62,19.58       93.0074026       -93         4.600.00       59.33       330.01       4.460.23       1174.36       -441.63       14.456,63.37       10.62,715.98       93.8073652       -93         4.600.00       59.33       330.01       4.67.35       1143.53       -444.56,63.31       1.692.75.98       93.8073652       -98         5.000.00       59.33       330.01       4.64.36       1.445.70.147       1682.705.19       93.8078607       -98         5.000.00       59.33       330.01       4.476.64       1.381.104       -555.12       14.456,87.84       1.692.265.80       93.8078607       -98         5.000.00       59.33       330.01       5.007.11       1.538.55       0.456,17.22       1.692.265.80       93.80078602       -98         5.000.00       39.33       330.01       5.077.20       1.692.265.10       1.980.265.10       1.980.265.10       1.980.265.10       1.980.265.10       1.980.265.10       1.980.265.10       1.980.265.10       98.0081761       98.0081761       98.0081761       98.0081761       98.0081761       98.0081761       98.0081761       98.0081616       98.000.265.144.445.1447.144.141	4,500.00	39.33	339.01	4,228,16	946.85	-373.54	14,456,406,45	1.692.841.38	39,80671501	-80.81332826
4700.00       39.33       330.01       4,882.87       1,065.19       -414.93       14,465,632.97       1.082,753.28       93.80720289       -88         4.600.00       39.33       330.01       4,647.33       14,456,643.31       1.082,753.28       93.80736552       -88         5.000.00       39.33       330.01       4,614.44       1,427.02       14,457,643.71       1.082,755.69       93.80728647       -88         5.200.00       39.33       330.01       4,764.64       1,361.04       -653.22       14,457,147       1.682,762.59       93.80768340       -88         5.200.00       39.33       330.01       4,247.00       1,420.21       -553.12       14,456,938.96       1.682,642.51       93.808768340       -88         5.400.00       39.33       330.01       4,247.00       1,420.21       -553.12       14,456,938.96       1.682,642.51       1.682,642.51       1.682,642.51       1.682,642.51       1.682,642.51       1.682,642.51       1.682,642.51       1.98.908768340       -89       5.600.00       39.33       39.01       5.705.71       1.5864.51       1.4457,175.61       1.682,642.51       1.78.98.98       3.60178.51       -68.52.51       7.78.21       14,4457,175.61       1.682,545.11       3.80.8086533       -80 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-80.81340864</td></td<>										-80.81340864
4,800.00       38.3       338.01       4,460.23       1124.36       -44.453.34       1822.770.28       38.8073652814       -86         5,000.00       38.33       338.01       4614.34       1242.70       -467.03       14.456.702.30       1882.770.28       38.807365241       -86         5,000.00       38.33       338.01       4612.22       130.18       -560.72       14.456.761.47       1882.777.88       38.80758214       -86         5,000.00       38.33       338.01       4.789.64       1.381.04       -552.42       14.458.761.47       1882.257.16       39.80801602       -96         5,400.00       38.33       339.01       5.001.71       1.538.55       -400.51       1.44.459.858.60       1.682.657.10       38.60817865       -86         5,600.00       38.33       339.01       5.001.71       1.538.55       -400.51       1.44.457.937.60       38.20817165       38.60817865       -86       1.44.457.937.60       38.60817865       -86       6.082.548.31       39.60869178       -86       -44.457.957.60       1.682.265.01       39.4086476       -86       -44.457.957.21       1.682.266.01       38.40861786       -66.66       -44.457.957.21       1.682.266.01       38.40861786       -66.66       -44.457.957.21       1.682.2										-80.8134890
4.900.00         39.33         339.01         4.437.84         1.4456.443         1.922.727.89         39.80752852         -84           5.000.00         39.33         333.01         4.614.44         1.242.70         44.657.023.01         1.692.2727.89         39.80752614         -89.808061602         -89.80752614         -89.808061602         -89.805605360         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808061786         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.808065380         -89.80806380         -89.80806380         -89.80806380         -89.80806380         -89.80806380         -89.80806380         -89.80806380         -89.808053816         -89.8085381					and the second se					-80.8135694
5.00.00         33.3         33.01         4.61.4.44         1.242.70         -44.67.02.30         1.682.278.8         38.0752814         -84.           5.100.00         33.33         339.01         4.62.20         1.301.61         -550.2         1.682.275.18         38.0765340         -86.           5.200.00         33.33         339.01         4.476.64         1.301.64         -555.12         1.4456.786.11         1.622.657.80         38.08017665         -80.           5.000.00         33.33         338.01         4.924.35         1.479.88         -77.82         1.4456.988.1         1.682.267.10         39.80817865         -80.           5.000.00         33.33         338.01         5.007.00         1.587.77         -223.21         1.4457.075.02         1.682.268.01         39.80866503         -80.           5.000.00         33.33         338.01         5.311.13         1.777.52         -49.19.10         1.4457.175.66         1.682.268.01         39.80899178         -88.           5.000.00         33.33         33.0.01         5.311.13         1.777.23         -691.30         1.4457.176.66         1.682.268.01         39.8089178         -88.           6.000.00         3.33         33.9.01         5.344.81         1.884.76	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									-80.8136497
5100.00       39.33       330.01       4,662.29       1.301.87       -000.72       14.456,761.47       1962,662.50.19       38.00766077       -8.         5.200.00       39.33       330.01       4,766.4       1.861.02       1.465.662.50       38.00765570       -8.         5.400.00       39.33       330.01       4.947.00       1.420.21       -555.12       14.456.938.98       1.862.652.60       38.0801602       -8.         5.600.00       39.33       338.01       5.007.71       1.538.55       -600.51       1.445.95.896.71       38.08054120       -8.         5.700.00       39.33       38.01       5.164.2       1.666.66       -445.91       1.445.75.24.8517.1       38.08056053       -8.         5.700.00       39.33       38.01       5.338.77       7.1716.06       -668.61       1.44.57.734.83       1.692.523.81       38.0805663       -8.         6.000.00       39.33       38.01       5.388.48       1.834.40       -714.00       1.44.57.244.01       1.692.550.02       38.80956457       -8.         6.100.00       35.55       30.18       5.562.00       1.44.57.332.73       1.692.476.70       38.80956457       -8.         6.100.00       25.55       34.01       1.577.91										-80.8137301
5.200.00       39.33       330.01       4,769.64       1.321.04       -532.42       14.456,820.64       1.652.658.62       38.80765340       -83         5.200.00       39.33       330.01       4,924.35       1.470.86       -577.82       14.456,939.98       1.692.659.710       38.80834128       -80         5.600.00       39.33       338.01       5.007.06       1.977.72       -822.21       1.442.50,671.01       38.80834128       -80         5.600.00       39.33       338.01       5.075.06       1.977.72       -822.21       1.442.57,175.66       1.982,569.11       38.8086591       -80         5.800.00       39.33       338.01       5.316.42       1.866.89       -844.91       1.44.457,775.66       1.982,569.11       38.908659176       -86         5.900.00       39.33       338.01       5.384.41       1.844.40       -714.00       1.4457,734.83       1.992,560.32       38.90869176       -86         6.000.00       36.33       338.01       5.268.44       1.844.40       -714.00       1.892,478.70       38.90869216       -80         6.100.00       35.55       340.18       5.466.47       1.982.86       -736.22       1.4457,473.52.50       1.992,478.77       38.90945411       -80       4										-80.8138105
5.300.00       39.33       330.01       4.447.00       1.420.21       -555.12       14.456.878.81       1.652.657.40       38.0801602       -80         5.400.00       39.33       339.01       5.001.71       1.538.55       -800.51       14.456.988.15       1.662.651.40       38.08054128       -80         5.600.00       39.33       339.01       5.154.21       1.568.66       44.57       1.44.57.114.457.114.457.114.457.114       1.662.568.01       38.00866633       -80         5.600.00       39.33       339.01       5.154.21       1.668.66       14.457.175.66       1.662.563.01       38.0086653       -80         5.900.00       39.33       339.01       5.338.48       1.834.40       -714.00       14.457.324.00       1.692.457.01       38.00862665       -80         6.000.00       3.63.33.01       5.438.41       1.834.40       -714.00       1.457.332.73       1.692.467.00       38.09254065       -80         6.000.00       3.63.83.401.18       5.466.47       1.892.67       -757.14       1.457.352.50       1.892.478.70       38.09824065       -80         6.200.00       3.63.83.401.18       5.466.47       1.892.67       -757.14       1.44.57.347.52       1.692.478.70       38.09891261       -60					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					-80.8138909
5.400.00         39.33         336.01         4.24.35         1.479.38         -977.82         14.459.33.98         1.926.871.0         38.0881748         -83           5.600.00         39.33         338.01         5.070.06         1.597.72         -922.21         14.457.057.32         1.692.541.43         38.0884742         -83           5.700.00         39.33         338.01         5.073.06         1.597.72         -922.21         14.457.073.22         1.692.546.31         38.08086633         -86           5.800.00         39.33         338.01         5.337.71         1.716.06         -866.61         1.4457.732.48         1.692.506.02         38.08089178         -86           6.000.00         39.33         338.01         5.338.44         1.634.40         -714.00         1.4457.234.63         1.992.466.0         38.0984514         -86           6.000.00         35.35         340.18         5.448.4         1.344.40         -714.00         1.892.486.00         38.0984511         -88           6.200.00         26.25         344.00         5.572.21         1.44.57.457.52         1.992.457.71         38.0984597         -66           6.300.00         16.89         354.75         5.644.43         1.979.75         -775.21         1.44										-80.8139713
5,500,00       39,33       339,01       5,001,71       1,538,55       +00,51       14,456,991,15       1,692,517,22       1,692,517,23       1,692,517,13       39,605030       -80         5,000,00       39,33       339,01       5,156,42       1,656,69       -645,91       14,457,175,65       1,692,569,01       39,8065655       -80         5,000,00       39,33       339,01       5,358,48       1,834,40       -714,00       14,457,237,31       1,692,509,92       39,8095178       -86         6,005,45       39,33       39,01       5,318,48       1,834,40       -714,00       14,457,237,31       1,692,463,01       39,80951541       -86         6,005,45       39,333,01       5,466,47       1,892,89       -736,22       14,457,352,50       1,892,470,0       39,80931518       -80         6,100,00       35,95       340,18       5,466,47       1,892,89       -736,22       14,457,352,50       1,892,470,70       39,80945011       -80         6,200,00       16,83       34,76       5,644,93       1,977,91       -756,01       14,457,457,52       1,692,477,70       39,80945011       -80         6,400,00       8,55       345,55       5,62,00       1,917,91       -756,01       14,457,458,16										-80.8140517
5,000,00       39.33       330,01       5,070,00       1,597,72       +4,457,057,32       1,465,081       38,00850380       -86         5,700,00       39.33       339,01       5,213,77       1,716,06       -666,61       1,44,57,175,66       1,692,543,31       38,00850281       -86         5,900,00       39.33       339,01       5,311,13       1,775,23       -691,30       1,44,57,243,83       1,692,523,61       39,80959178       -86         6,000,00       39.33       339,01       5,384,41       1,834,40       -714,400       1,692,500,23       23,80915441       -86         6,000,00       35.95       340,18       5,466,47       1,892,89       -736,22       1,4457,352,50       1,892,478,70       39,80926055       -86         6,100,00       35.95       340,18       5,466,47       1,892,89       -736,22       14,457,352,50       1,892,478,70       39,80945011       -86         6,200,00       16,68       344,76       5,644,93       1,977,91       -756,01       1,4457,457,52       1,892,478,71       39,80964503       -86       6,600,00       1,689,347,65       -767,21       14,457,458,61       1,692,477,71       39,80960338       -86       6,600,00       1,683       344,75       1,682,477,71										
5700.00       39.33       330.01       5,156.42       1,656.89       -445.91       14,457,145.66       1,692,560.01       39.80866916       -88         5,900.00       39.33       339.01       5,311.13       1,775.23       -691.30       14,457,234.43       1,692,520.91       39.80869176       -88         6,000.00       39.33       339.01       5,388.48       1,834.40       -714.00       14,457,234.43       1,692,520.91       39.8091541       -88         6,005.45       39.33       33.01       5,388.48       1,834.40       -714.00       14,457,332.73       1,692,478.70       39.80931518       -80         6,000.00       26.25       345.00       5,552.00       1,941.99       -751.94       14,457,352.50       1,692,478.70       39.80945011       -80         6,200.00       8.65       33.26.15       5,742.41       199.65       -757.52       14,457,457.64       1,692,467.17       39.80954597       -86         6,600.00       15.33       124.55       5,939.16       1,977.55       -777.52       14,457,445.16       1,692,467.40       39.80963038       -80         6,600.00       35.34       139.44       6,118.52       5,939.16       1,977.55       -770.52       14,457,445.16       1,692,46										-80.8141320
5,800.00       39.33       339.01       5,233.77       1,716.06       -666.61       14,457,175.66       1,692,546.31       39.80889178       -80         6,000.00       39.33       339.01       5,388.48       1,834.40       -714.00       14,457,234.83       1,692,523.61       39.8089178       -80         6,000.00       39.33       339.01       5,388.48       1,834.40       -714.00       14,457,322.73       1,692,486.06       39.80931518       -80         6,100.00       35.95       340.18       5,466.47       1,892,89       -756.22       1,4457,437.52       1,582,478.70       39.809345011       -80         6,200.00       26.25       345.00       5,564.03       1,977.91       -756.14       14,457,437.52       1,582,455.51       39.809345011       -80         6,400.00       8.95       23.61       5,742.41       1,999.56       -757.21       1,4457,457.46       1,682,457.71       39.80954879       -80         6,500.00       16.89       53.23       5,841.49       2,006.27       -746.11       1,457,457.46       1,682,457.71       39.80956921       -86         6,600.00       15.31       1,457,456       700.22       1,467,447.44       1,692,635.9       39.80063381       -86      <										-80.8142124
5,600.00       39.33       339.01       5,311.13       1,775.23       -691.30       14,457,294.83       1,692,523.61       39.8089176       -88         6,000.00       39.33       339.01       5,388.48       1,834.40       -714.00       14,457,294.00       1,692,50.92       39.80915441       -86         6,055.45       39.33       339.01       5,486.47       1,892.89       -736.22       14,457,352.50       1,692,452.88       39.80931518       -86         6,100.00       35.95       340.18       5,466.47       1,892.89       -751.94       14,457,457.52       1,692,452.98       39.80954511       -86         6,200.00       26.25       345.00       5,552.00       1,995.67       -775.21       14,457,457.459.16       1,692,452.98       39.80954879       -86         6,400.00       8.95       32.81       5,742.41       1,995.67       -775.21       14,457,457.459.16       1,692,457.71       39.80956924       -86       66.00.00       8.93.93.93.16       1,997.85       -772.52       14,457,457.467.46       1,692,468.31       39.80958924       -86       6.000.00       35.34       139.84       6,118.52       1,974.56       -700.52       14,457,348.16       1,692,648.45       39.80958924       -86       6.000.00 <t< td=""><td>1.1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-80.8142928</td></t<>	1.1									-80.8142928
6,000.00       39.33       339.01       5,388.48       1,834.40       -714.00       14,457,332.73       1,692,480.06       39.8092605       -86         Begin 10*700*       drop/balld/turn       -       -       -       -       -       -       -86         6,100.00       35.95       340.18       5,466.47       1,892.487       -751.94       14,457,352.05       1,692,476.70       39.80931518       -86         6,200.00       26.25       345.00       5,552.00       1,947.19       -751.94       14,457,437.52       1,692,475.71       39.80960222       -66         6,400.00       8.95       2.861       5,742.41       1,999.56       -757.21       14,457,457.46       1,692,467.71       39.80960322       -66         6,500.00       16.69       9.32.85       5,631.46       1,997.85       -727.52       14,457,457.46       1,692,467.40       39.80960324       -66         6,800.00       35.43       1,397.09       -666.43       1,467,457.46       1,692,468.21       39.809603274       -66         6,800.00       45.15       14.25       1,597.94       1,692,583.59       39.8091572       -66         7,000.00       45.01       14.52.45       5.51.31       14,457,242.42 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-80.8143732</td></td<>										-80.8143732
6,065.45         39.33         339.01         5,439.11         1,873.13         -728.86         14,457,332.73         1,692,466.06         39.80926085         -86           Begin 10*/100* drop/buil/burn         - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-80.8144536</td>										-80.8144536
Begin 10*/100* drop/build/turn         - <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-80.8145340</td></th<>										-80.8145340
6,100.00       35.95       340.18       5,466.47       1,892.88       -736.22       14,457,432.00       1,692,478.70       38.80931518       -88.         6,200.00       26.25       345.00       5,552.00       1,941.99       -751.94       14,457,437.52       1,692,452.91       39.80954679       -66.         6,400.00       8.95       23.61       5,742.41       1,993.56       -757.21       14,457,457.16       1,692,457.71       39.8096032       -66.         6,600.00       16.33       124.53       5,939.16       1,997.85       -772.15       14,457,457.16       1,692,457.71       39.80960338       -66.         6,700.00       25.66       134.85       6,032.45       1,977.85       -700.52       14,457,447.16       1,692,454.40       39.80960338       -66.         6,800.00       45.15       142.86       6,118.52       1,937.09       -666.43       14,457,442.10       1,692,548.44       39.80943615       -86         6,900.00       45.15       142.86       6,114.77       1,886.59       -561.30       14,457,421.26       1,692,548.44       39.80943761       -86         7,000.00       45.01       146.74       1,822,499       -581.33       1,4457,421.26       1,692,633.45       1,802,633.59				5,439.11	1,873.13	-728.86	14,457,332.73	1,692,486.06	39,80926085	-80.8145866
6,200.00         26,25         345.00         5,552.00         1,941.99         -751.94         1,4457,437.52         1,692,462.98         39,80945011         -83           6,300.00         16.89         354.76         5,644.93         1,977,91         -755.01         14,457,457.15         1,692,455.61         39,80950822         -66           6,500.00         8.60         33.28         5,841.49         2,006.27         -746.61         14,457,457.46         1,692,467.71         39,80960322         -66           6,600.00         16.33         124.53         5,939.16         1,997.85         -727.52         14,457,457.46         1,692,468.40         39,80960338         -80           6,600.00         35.34         139.84         6,118.52         1,937.09         -666.43         14,457,444.16         1,692,468.40         39,80943615         -60           6,900.00         35.51         142.86         6,342.77         1,886.59         -562.30         14,457,435.15         1,692,688.20         39,808912672         -80           7,000.00         55.01         145.04         6,238.87         1,824.59         -581.33         14,457,143.53         1,692,783.44         39,808412672         -80           7,000.00         44.73         149.46	and the second sec									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6,100.00	35.95	340.18		1,892.89			1,692,478.70	39.80931518	-80.8146126
	6,200.00	26.25	345.00		1,941.99	-751.94	14,457,401.60	1,692,462.98	39,80945011	-80.8146683
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6,300.00	16.89	354.76	5,644.93	1,977.91	-759.01	14,457,437.52	1,692,455.91	39.80954879	-80.8146932
	6,400.00	8.95	23.61	5,742.41	1,999.56	-757.21		1,692,457,71	39.80960822	-80.8146866
	6,500.00	8.60	93.28	5,841.49	2,006.27	-746.61	14,457,465.88	1,692,468.31	39.80962661	-80.8146488
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6,600,00	16.33	124.53	5,939.16	1,997.85	-727.52	14,457,457.46	1,692,487.40	39.80960338	-80.8145809
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6,700.00	25.66	134.85	6,032,45	1,974.56	-700.52	14,457,434.16	1,692,514.40	39.80953924	-80.81448496
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6,800.00	35.34	139.84	6,118.52	1,937.09	-666.43	14,457,396.69	1,692,548.48	39.80943615	-80.8143638
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6,900.00	45.15	142.89	6,194.77	1,886.59	-626.30	14,457,346.19	1,692,588.62	39.80929724	-80.8142213
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7,000.00	55.01	145.04	6,258.87	1,824.59	-581.33	14,457,284.20	1,692,633.59	39.80912672	-80.8140616
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7,100.00	64.90	146,73	6,308.88	1,752.98	-532.90	14,457,212.58	1,692,682.02	39.80892978	-80.8138897
7,343.03       89.00       150.00       6,363.36       1,552.74       -409.93       14,457,012.35       1,692,804.99       39.80837918       -80         Begin 89.00°       lateral	7,200.00	74.81	148.16	6,343,27	1,673.93	-482.47	14,457,133.53	1,692,732.45	39.80871240	-80.8137107-
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	7,300.00	84.73	149.46	6,361.00	1,589.84	-431.58	14,457,049.45	1,692,783.34	39.80848118	-80.8135301
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7,343.03	89.00	150.00	6,363.36	1,552.74	-409.93	14,457,012.35	1,692,804.99	39.80837918	-80.8134533-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Begin 89	.00° lateral								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			150.00	6.364.35	1.503.41	-381.45	14 456 963 02	1 692 833 47	39,80824354	-80.81335229
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										-80.8131749
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										-80.8129975
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				7 CALCOL GA.						-80.8128201
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				and the state of the state						-80.81264283
8,000.0089,00150.006,374.82983.88-81.4914,456,443.481,693,133.4239.80681503-808,100.0089.00150.006,376.57897.29-31.5014,456,356.901,693,183.4239.80657695-808,200.0089.00150.006,378.31810.7018.4914,456,270.311,693,233.4139.80633886-808,300.0089.00150.006,380.06724.1168.4814,456,183.721,693,283.4039.80610078-808,400.0089.00150.006,381.80637.52118.4814,456,097.131,693,383.3939.80586269-808,500.0089.00150.006,383.55550.93168.4714,456,010.541,693,383.3839.8052460-808,600.0089.00150.006,387.04377.75268.4514,455,923.951,693,483.3739.80514843-808,700.0089.00150.006,387.72116318.4514,455,750.771,693,533.3639.80491034-808,800.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,683.3439.80419608-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,394.0231.40468.42 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-80.8124654</td></t<>										-80.8124654
8,100.0089.00150.006,376.57897.29-31.5014,456,356.901,693,183.4239.80657695-808,200.0089.00150.006,378.31810.7018.4914,456,270.311,693,233.4139.80633886-808,300.0089.00150.006,380.06724.1168.4814,456,183.721,693,283.4039.80610078-808,400.0089.00150.006,381.80637.52118.4814,456,097.131,693,383.3939.80586269-808,500.0089.00150.006,383.55550.93168.4714,456,010.541,693,383.3839.80562460-808,600.0089.00150.006,387.04377.75268.4514,455,923.951,693,433.3839.80538652-808,700.0089.00150.006,387.704377.75268.4514,455,837.361,693,483.3739.80514843-808,800.0089.00150.006,380.78291.16318.4514,455,750.771,693,533.3639.80491034-808,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,491.001,693,683.3439.80419608-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,395.76-55.19518.42<	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				10000					-80.81228809
8,200.00         89.00         150.00         6,378.31         810.70         18.49         14,456,270.31         1,693,233.41         39.80633886         -80           8,300.00         89.00         150.00         6,380.06         724.11         68.48         14,456,183.72         1,693,283.40         39.80610078         -80           8,400.00         89.00         150.00         6,381.80         637.52         118.48         14,456,097.13         1,693,383.39         39.80586269         -80           8,500.00         89.00         150.00         6,383.55         550.93         168.47         14,456,010.54         1,693,383.38         39.80562460         -80           8,600.00         89.00         150.00         6,387.04         377.75         268.45         14,455,923.95         1,693,433.38         39.80538652         -80           8,700.00         89.00         150.00         6,387.04         377.75         268.45         14,455,837.36         1,693,483.37         39.80514843         -80           8,800.00         89.00         150.00         6,388.78         291.16         318.45         14,455,664.18         1,693,583.35         39.80491034         -80           8,900.00         89.00         150.00         6,390.53										-80.81211072
8,300.0089.00150.006,380.06724.1168.4814,456,183.721,693,283.4039.80610078-808,400.0089.00150.006,381.80637.52118.4814,456,097.131,693,333.3939.80586269-808,500.0089.00150.006,383.55550.93168.4714,456,010.541,693,383.3839.80562460-808,600.0089.00150.006,385.29464.34218.4614,455,923.951,693,433.3839.80538652-808,700.0089.00150.006,387.04377.75268.4514,455,837.361,693,483.3739.80514843-808,800.0089.00150.006,388.78291.16318.4514,455,750.771,693,533.3639.80491034-808,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,633.3539.80443417-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,395.76-55.19518.4214,455,404.411,693,733.3339.80395799-80										-80.81193336
8,400.0089.00150.006,381.80637.52118,4814,456,097.131,693,333.3939,80586269-808,500.0089.00150.006,383.55550.93168,4714,456,010.541,693,383.3839,80562460-808,600.0089.00150.006,385.29464.34218.4614,455,923.951,693,433.3839,80538652-808,700.0089.00150.006,387.04377.75268.4514,455,837.361,693,483.3739,80514843-808,800.0089.00150.006,388.78291.16318.4514,455,750.771,693,533.3639,80491034-808,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539,80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,633.3539,80443417-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439,80419608-809,200.0089.00150.006,395.76-55.19518.4214,455,404.411,693,733.3339,80395799-80	and the state of t									-80.8117560
8,500.0089.00150.006,383.55550.93168.4714,456,010.541,693,383.3839.80562460-808,600.0089.00150.006,385.29464.34218.4614,455,923.951,693,433.3839.80538652-808,700.0089.00150.006,387.04377.75268.4514,455,837.361,693,483.3739.80514843-808,800.0089.00150.006,388.78291.16318.4514,455,750.771,693,533.3639.80491034-808,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,633.3539.80443417-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,395.76-55.19518.4214,455,404.411,693,733.3339.80395799-80	and the second se			10 State 1 State 1						-80.81157864
8,600.00         89.00         150.00         6,385.29         464.34         218.46         14,455,923.95         1,693,433.38         39.80538652         -80           8,700.00         89.00         150.00         6,387.04         377.75         268.45         14,455,837.36         1,693,433.38         39.80538652         -80           8,700.00         89.00         150.00         6,387.04         377.75         268.45         14,455,837.36         1,693,483.37         39.80514843         -80           8,800.00         89.00         150.00         6,388.78         291.16         318.45         14,455,750.77         1,693,583.35         39.80491034         -80           8,900.00         89.00         150.00         6,390.53         204.57         368.44         14,455,664.18         1,693,583.35         39.80467226         -80           9,000.00         89.00         150.00         6,392.27         117.99         418.43         14,455,577.59         1,693,633.35         39.80443417         -80           9,100.00         89.00         150.00         6,394.02         31.40         468.42         14,455,491.00         1,693,683.34         39.80419608         -80           9,200.00         89.00         150.00         6,395.76 <td>and the second second</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-80.81140129</td>	and the second second									-80.81140129
8,700.0089.00150.006,387.04377.75268.4514,455,837.361,693,483.3739.80514843-808,800.0089.00150.006,388.78291.16318.4514,455,750.771,693,533.3639.80491034-808,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,633.3539.80443417-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,395.76-55.19518.4214,455,404.411,693,733.3339.80395799-80										-80.81122393
8,800.0089.00150.006,388.78291.16318.4514,455,750.771,693,533.3639.80491034-808,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,633.3539.80443417-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,395.76-55.19518.4214,455,404.411,693,733.3339.80395799-80										-80.8110465
8,900.0089.00150.006,390.53204.57368.4414,455,664.181,693,583.3539.80467226-809,000.0089.00150.006,392.27117.99418.4314,455,577.591,693,633.3539.80443417-809,100.0089.00150.006,394.0231.40468.4214,455,491.001,693,683.3439.80419608-809,200.0089.00150.006,395.76-55.19518.4214,455,404.411,693,733.3339.80395799-80										
9,000.00 89.00 150.00 6,392.27 117.99 418.43 14,455,577.59 1,693,633,35 39.80443417 -80 9,100.00 89.00 150.00 6,394.02 31.40 468.42 14,455,491.00 1,693,683.34 39.80419608 -80 9,200.00 89.00 150.00 6,395.76 -55.19 518.42 14,455,404.41 1,693,733.33 39.80395799 -80										-80.81086922
9,100.00 89.00 150.00 6,394.02 31.40 468.42 14,455,491.00 1,693,683.34 39.80419608 -80 9,200.00 89.00 150.00 6,395.76 -55.19 518.42 14,455,404.41 1,693,733.33 39.80395799 -80	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									-80.81069187
9,200.00 89.00 150.00 6,395.76 -55.19 518.42 14,455,404.41 1,693,733.33 39.80395799 -80							the second s			-80.81051452
그 것이 가지? 그는 것이 않는 것이 있는 것이 가지? 그는 것이 있는 것이 있는 것이 있는 것이 있는 것이 가지? 것이 있는 것이 가지? 것이 같은 것이 있는 것이 같이 있는 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없										-80.8103371
9,300.00 89.00 150.00 6,397.51 -141.78 568.41 14,455,317.83 1.693,783,32 39,80371990 -80	9,200.00			6,395.76						-80.81015982
	100 C 10							and the second second second second		-80.80998247 -80.80980512



#### Planning Report - Geographic

# 4705102116

Database: DB\_Jul2216dt\_v14 Local Co-ordinate Reference: Company: Tug Hill Operating LLC **TVD Reference:** Marshall County, West Virginia. Project: MD Reference: Woodford Grid Site: North Reference: Woodford 04HM (D) Survey Calculation Method: Well: Origina Hole Wellbore: Design: rev1

Well Woodford 04HM (D) GL @ 1235,00ft GL @ 1235.00ft Grid RECEIVED Minimum Curvature Office of Oil and Gas

Measured			Vertical			Map	Map	WV D Environm	epartment of iental Protection
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
9,500.00	89.00	150.00	6,401.00	-314.96	668.39	14,455,144.65	1,693,883,31	39.80324372	-80,80962
9,600.00	89.00	150.00	6,402.75	-401.55	718.39	14,455,058.06	1,693,933.30	39.80300563	-80.80945
9,700.00	89.00	150.00	6,404.49	-488.14	768.38	14,454,971.47	1,693,983.29	39.80276754	-80.80927
9,800.00	89.00	150.00	6,406.24	-574.73	818.37	14,454,884.88	1,694,033.28	39.80252945	-80.80909
9,900.00	89.00	150.00	6,407.98	-661.32	868.36	14,454,798.29	1,694,083.28	39,80229136	-80.80891
10,000.00	89.00	150.00	6,409.73	-747.91	918.35	14,454,711.70	1,694,133.27	39,80205327	-80.80874
10,100.00	89.00	150.00	6,411.47	-834.50	968.35	14,454,625.11	1,694,183.26	39.80181518	-80.80856
10,200.00	89.00	150.00	6,413.22	-921.09	1,018.34	14,454,538.52	1,694,233.25	39.80157709	-80.80838
10,300.00	89.00	150.00	6,414.96	-1,007.68	1,068.33	14,454,451.93	1,694,283.25	39,80133900	-80.80820
10,400.00	89.00	150,00	6,416.71	-1,094.27	1,118.32	14,454,365.34	1,694,333.24	39.80110091	-80.80803
10,500.00	89.00	150.00	6,418.45	-1,180.85	1,168.32	14,454,278.76	1,694,383.23	39.80086282	-80.80785
10,600.00	89.00	150.00	6,420.20	-1,267.44	1,218.31	14,454,192.17	1,694,433.22	39.80062472	-80.8076
10,700.00	89.00	150.00	6,421.94	-1,354.03	1,268.30	14,454,105.58	1,694,483.21	39.80038663	-80.80749
10,800,00	89.00	150.00	6,423.69	-1,440.62	1,318.29	14,454,018.99	1,694,533.21	39,80014854	-80.8073
10,900.00	89.00	150.00	6,425.43	-1,527.21	1,368.29	14,453,932.40	1,694,583.20	39.79991044	-80,8071-
11,000.00	89.00	150.00	6,427.18	-1,613.80	1,418.28	14,453,845.81	1,694,633.19	39.79967235	-80.8069
11,100.00	89.00	150.00	6,428.92	-1,700.39	1,468.27	14,453,759.22	1,694,683,18	39,79943426	-80.8067
11,200.00	89.00	150.00	6,430.67	-1,786.98	1,518.26	14,453,672.63	1,694,733.18	39,79919616	-80.8066
11,300.00	89.00	150.00	6,432.41	-1,873.57	1,568.26	14,453,586.04	1.694,783.17	39,79895807	-80.8064
11,400.00	89.00	150.00	6,434.16	-1,960.16	1,618.25	14,453,499.45	1,694,833.16	39.79871997	-80,8062
11,500.00	89.00	150.00	6,435.90	-2,046,75	1,668,24	14,453,412,86	1,694,883,15	39,79848188	-80,8060
11,600.00	89.00	150.00	6,437.65	-2,133.34	1,718.23	14,453,326.27	1,694,933.15	39.79824378	-80.8059
11,700.00	89.00	150.00	6,439.40	-2,219.93	1,768.23	14,453,239.69	1,694,983.14	39.79800569	-80.8057
11,800.00	89.00	150.00	6,441.14	-2,306.52	1,818.22	14,453,153.10	1,695,033.13	39.79776759	-80,8055
11,900.00	89.00	150.00	6,442.89	-2,393.11	1,868.21	14,453,066.51	1,695,083.12	39.79752950	-80.8053
12,000.00	89.00	150.00	6,444.63	-2,479.70	1,918.20	14,452,979.92	1,695,133.11	39.79729140	-80,8051
12 C 12 C 12	89.00		6,446.38	-2,566.28	1,968.19		1,695,183.11	39.79705331	-80.8050
12,100.00		150.00	GLOCO STATE			14,452,893.33		39.79681521	-80.8048
12,200.00	89.00	150.00	6,448.12	-2,652.87	2,018.19	14,452,806.74	1,695,233.10	39.79657711	-80.8046
12,300.00	89.00	150.00	6,449.87	-2,739.46	2,068.18	14,452,720.15	1,695,283.09		-80.8044
12,400.00	89.00	150.00	6,451.61	-2,826.05	2,118.17	14,452,633.56	1,695,333.08	39.79633901	-80.8044
12,500.00	89.00	150.00	6,453.36	-2,912.64	2,168.16	14,452,546.97	1,695,383.08	39.79610092	
12,600.00	89.00	150.00	6,455.10	-2,999.23	2,218.16	14,452,460.38	1,695,433.07	39.79586282	-80.8041
12,700.00	89.00	150.00	6,456.85	-3,085.82	2,268.15	14,452,373.79	1,695,483.06	39,79562472	-80,8039
12,800.00	89.00	150.00	6,458.59	-3,172.41	2,318.14	14,452,287.20	1,695,533.05	39.79538662	-80.8037
12,900.00	89.00	150.00	6,460.34	-3,259.00	2,368.13	14,452,200.62	1,695,583.04	39.79514852	-80.8035
13,000.00	89.00	150.00	6,462.08	-3,345.59	2,418.13	14,452,114.03	1,695,633.04	39,79491042	-80,8034
13,100.00	89.00	150.00	6,463.83	-3,432.18	2,468.12	14,452,027.44	1,695,683,03	39.79467232	-80.8032
13,200.00	89.00	150.00	6,465.57	-3,518.77	2,518.11	14,451,940.85	1,695,733.02	39.79443423	-80.8030
13,300.00	89.00	150.00	6,467.32	-3,605.36	2,568.10	14,451,854.26	1,695,783.01	39.79419613	-80.8028
13,400.00	89.00	150.00	6,469.06	-3,691.95	2,618.10	14,451,767.67	1,695,833.01	39.79395803	-80.8027
13,500.00	89,00	150,00	6,470.81	-3,778.54	2,668.09	14,451,681.08	1,695,883,00	39.79371992	-80.8025
13,600.00	89.00	150.00	6,472.55	-3,865.12	2,718.08	14,451,594.49	1,695,932.99	39.79348182	-80.8023
13,700.00	89.00	150.00	6,474.30	-3,951.71	2,768.07	14,451,507.90	1,695,982.98	39.79324372	-80.8021
13,800.00	89.00	150.00	6,476.05	-4,038.30	2,818.07	14,451,421.31	1,696,032.98	39.79300562	-80.8020
13,900.00	89.00	150.00	6,477.79	-4,124.89	2,868.06	14,451,334.72	1,696,082.97	39.79276752	-80.8018
14,000.00	89.00	150.00	6,479.54	-4,211.48	2,918.05	14,451,248.13	1,696,132.96	39.79252942	-80.80164
14,100.00	89.00	150.00	6,481.28	-4,298.07	2,968.04	14,451,161.55	1,696,182.95	39.79229132	-80.8014
14,200.00	89.00	150.00	6,483.03	-4,384.66	3,018.04	14,451,074.96	1,696,232.94	39.79205321	-80.8012
14,300.00	89.00	150.00	6,484.77	-4,471.25	3,068.03	14,450,988.37	1,696,282,94	39.79181511	-80.8011
14,400.00	89.00	150.00	6,486.52	-4,557,84	3,118.02	14,450,901.78	1,696,332.93	39.79157701	-80,8009;
14,500.00	89.00	150.00	6,488.26	-4,644.43	3,168.01	14,450,815.19	1,696,382.92	39.79133891	-80.80076
14,600.00	89.00	150.00	6,490.01	-4,731.02	3,218.00	14,450,728.60	1,696,432.91	39.79110080	-80.8005
14,700.00	89.00	150.00	6,491.75	-4,817.61	3,268.00	14,450,642.01	1,696,482.91	39.79086270	-80.80040
14,800.00	89.00	150.00	6,493.50	-4,904.20	3,317.99	14,450,555.42	1,696,532.90	39.79062459	-80.80023
14,900.00	89.00	150.00	6,495.24	-4,990.79	3,367.98	14,450,468.83	1,696,582.89	39.79038649	-80.80005

COMPASS 5000.14 Build 85



# 4705102116

Database: DB\_Jul2216dt\_v14 Local Co-ordinate Reference: Well Woodford 04HM (D) Company: Tug Hill Operating LLC TVD Reference: GL @ 1235.00ft Marshall County, West Virginia. Project: GL @ 1235.00ft MD Reference: Woodford Site: Grid North Reference: Minimum Curvature Woodford 04HM (D) Well: Survey Calculation Method: Origina Hole Wellbore: Design: rev1

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,000.00	89.00	150.00	6,496.99	-5,077.38	3,417.97	14,450,382.24	1,696,632.88	39.79014839	-80.79987566
15,100.00	89.00	150.00	6,498.73	-5,163.97	3,467.97	14,450,295.65	1,696,682.88	39.78991028	-80.79969838
15,200.00	89.00	150.00	6,500.48	-5,250.55	3,517.96	14,450,209.06	1,696,732.87	39.78967218	-80.7995211
15,300.00	89.00	150.00	6,502.22	-5,337.14	3,567.95	14,450,122.47	1,696,782.86	39.78943407	-80.79934383
15,400.00	89.00	150.00	6,503.97	-5,423.73	3,617.94	14,450,035.89	1,696,832.85	39.78919596	-80.79916656
15,500.00	89.00	150.00	6,505.71	-5,510.32	3,667.94	14,449,949.30	1,696,882.84	39,78895786	-80.79898929
15,600.00	89.00	150.00	6,507.46	-5,596.91	3,717.93	14,449,862.71	1,696,932.84	39.78871975	-80.79881202
15,700.00	89.00	150.00	6,509.20	-5,683.50	3,767.92	14,449,776.12	1,696,982.83	39.78848165	-80.79863475
15,800.00	89.00	150.00	6,510.95	-5,770.09	3,817.91	14,449,689.53	1,697,032.82	39.78824354	-80.79845748
15,900.00	89.00	150.00	6,512.70	-5,856.68	3,867.91	14,449,602.94	1,697,082.81	39,78800543	-80.7982802
16,000.00	89.00	150.00	6,514.44	-5,943.27	3,917.90	14,449,516.35	1,697,132.81	39.78776732	-80,79810294
16,100.00	89.00	150.00	6,516.19	-6,029.86	3,967.89	14,449,429.76	1,697,182.80	39.78752922	-80.79792568
16,200.00	89.00	150.00	6,517.93	-6,116.45	4,017.88	14,449,343.17	1,697,232.79	39.78729111	-80.79774842
16,300.00	89.00	150.00	6,519.68	-6,203.04	4,067.88	14,449,256.58	1,697,282.78	39.78705300	-80.79757115
16,400.00	89.00	150.00	6,521.42	-6,289.63	4,117.87	14,449,169.99	1,697,332.77	39.78681489	-80.79739389
16,500.00	89.00	150.00	6,523.17	-6,376.22	4,167.86	14,449,083.40	1,697,382.77	39.78657678	-80.79721663
16,600.00	89.00	150.00	6,524.91	-6,462.81	4,217.85	14,448,996.82	1,697,432.76	39.78633867	-80.79703937
16,700.00	89.00	150.00	6,526.66	-6,549.39	4,267.84	14,448,910.23	1,697,482.75	39,78610057	-80.79686212
16,800.00	89.00	150.00	6,528.40	-6,635.98	4,317.84	14,448,823.64	1,697,532.74	39.78586246	-80.79668486
16,900.00	89.00	150.00	6,530.15	-6,722.57	4,367.83	14,448,737.05	1,697,582.74	39.78562435	-80.79650760
17,000.00	89.00	150.00	6,531.89	-6,809.16	4,417.82	14,448,650.46	1,697,632.73	39.78538624	-80.79633035
17,100.00	89.00	150.00	6,533.64	-6,895.75	4,467.81	14,448,563.87	1,697,682.72	39.78514813	-80.79615310
17,178.03	89.00	150.00	6,535.00	-6,963.32	4,506.82	14,448,496.31	1,697,721.73	39.78496233	-80.79601479
PBHL/TD	17178.03 MD	6535.00 TVD	le la						

Design Targets
----------------

Target Name - hit/miss target	Die Analy		THE	+N/-S		Manh	Frankis		
	Dip Angle	Dip Dir.	TVD		+E/-W	Northing	Easting		
- Shape	(°)	(')	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
Woodford 04HM LP - plan misses target o - Point	0.00 center by 253.	0.00 .04ft at 6897	6,353.00 2.05ft MD (61	2,067.21 92.69 TVD, 1	-706.95 888.25 N, -62	14,457,526.81 7.56 E)	1,692,507.96	39.80979372	-80.81450719
Woodford 04HM BHL r1 - plan hits target cent - Point	0.00 ter	0.00	6,535.00	-6,963.32	4,506.82	14,448,496.31	1,697,721.73	39.78496233	-80.79601479

#### Plan Annotations

Measured	Vertical	Local Coor	dinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	RECEIVED Office of Oil and Gas
1,400.00	1,400.00	0.00	0.00	KOP Begin 2°/100' build	Office of earlies
1,650.00	1,649.68	7.71	-7.71	Begin 2°/100' build/turn	AUG 1 4'2018
1,939.84	1,937.02	40.16	-25.67	Begin 10.00° tangent	AUG 14 2010
3,120.77	3,100.00	231.61	-99.16	Begin 6°/100' build	
3,609.55	3,539.36	419.96	-171.43	Begin 39.33° tangent	WV Department of
6,065.45	5,439.11	1,873.13	-728.86	Begin 10°/100' drop/build/turn	Environmental Protectio
7,343.03	6,363.36	1,552.74	-409.93	Begin 89.00° lateral	
17,178.03	6,535,00	-6,963,32	4,506.82	PBHL/TD 17178.03 MD/6535.00 TVD	

### Area of Review

## Sources of information to Support 35CSR8 - 5.11: 9.3 et seq.

Description of process to identify potential pathways for well communication during hydraulic fracturing activities.

Data Sources Reviewed:

1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases

- 2. Farm Maps
- 3. Topo Maps: Recent and older (contact WVGES)
- 4. Check with DPS

Contacted Devin Ducoeur 724-705-0444, dducoeur@dpslandservices.com DPS GIS (7/2/2018) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

- 1. Wellbore with IHS All Wells Layer
- 2. Map with Farm lines overlain and any well spots identified on Farm Maps
- 3. More recent (1970s vintage) topos and older topos

Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- WVGES has plotted every well spot they have access to and are aware of with that contains a coordinate. 30000, 70000, and 90000 series wells are available via the WVGES online map. Some locations aren't great due to vintage and manipulation of maps through time
- 30000 series any well drilled prior to 1929 APIs were not assigned to original wells RECEIVED Office of Oil and Gas
- 70000 series Well spots pulled from old Farm line maps that the WVGES has access to
- 90000 series Any sources that the WVGES has access that shows a well spot but has no AUG 14'2018 additional supporting information. DEP does not have 90000 series on their maps. WV Department of Environmental Protection
- There can be duplication between wells in the 3 series
- Phil indicated that other Operators are providing a screenshot of the WVGES map with their . planned well and using that for permits

# 4705102116

#### Permit well - Woodford-4HM

Wells within 500' Buffer

Note: Well spots depicted on Area of Review map (page 3) are derived from State held coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots

API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could be within the range of Fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
4705100112	J.T. McIntire	1,485'	Big Injun Sd	Unknown	No, the well is not deep enough to be within the expected fracture propagation from a Marcellus stimulation.	Plugged in 1940

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WV Department of Environmental Protection

# 4705102116

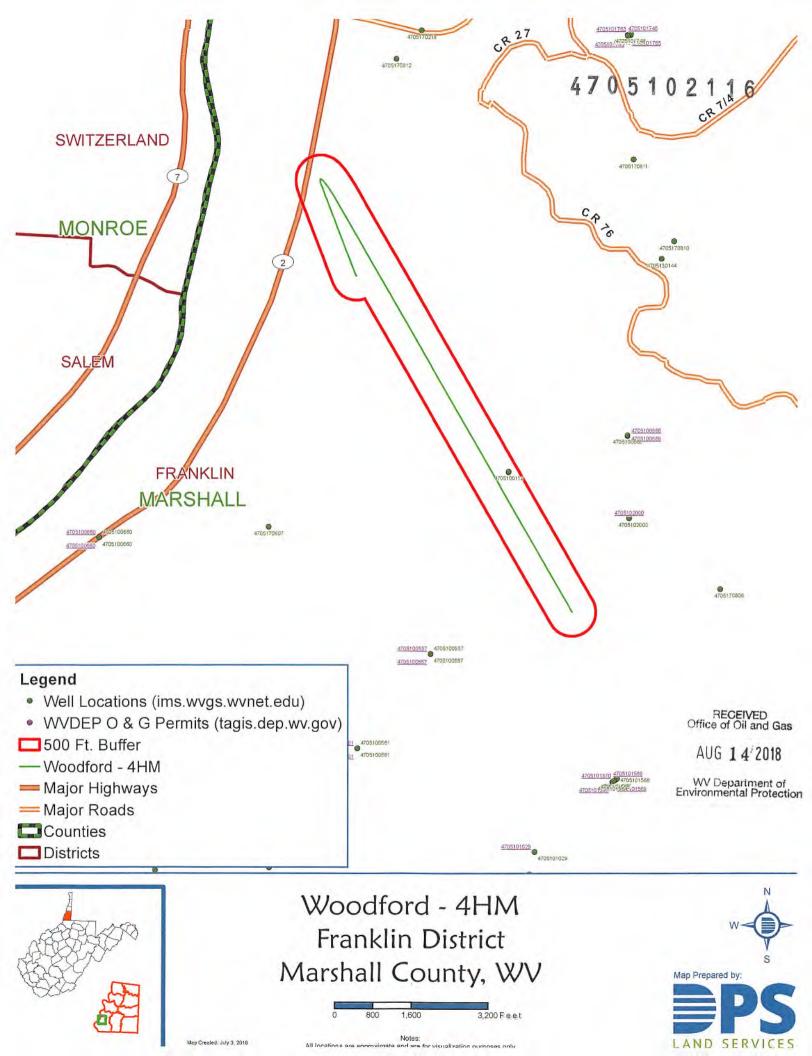
WVGES "Pipeline"	Select County (051) Marshall Enter Permit # 00112 Get Data Reset	▼ Select datatypes: ↓	Check All) Production Plugging Stratigraphy Sample Logs Blm Hole	Contact Information	
WV Geological & Economic Su	ney			Well:	County = 51 Permit = 00112
API COUNTY PERM 4705100112 Marshall 112	IT TAX DISTRICT QUAD 75	QUAD_15 LAT_DD LON_D Clarington 39,792953 -80,600	D UTME UTMN 69 517064.3 4404796.4		
There is no Bottom Hole L					
Owner Information:				James Marine	
API CMP_DT_SUFFI 4705100112_11/5/1940_Origin	IX STATUS SURFACE OWN al Loc Completed William C Stiger	IER WELL_NUM CO_NUM LE	ASE LEASE_NUM MINERAL 9 William C	OWN OPERATOR_AT_COMPLET	ION PROP_VD PROP_TRGT_FM TFM_EST_PR
Completion Information:	DT ELEV DATUM FIELD	DEEPEST FM DEEPEST	FMT INITIAL_CLASS FI	NAL_CLASS TYPE RIG	CMP_MTHD TVD TMD NEW_FTG KOD
4705100112 11/5/1940 10/11/	1940 720 Ground Level Unname	ed Price Fm & equive Price Fm I	Sequive Development Well Un	successful Dry w/ Gas Show unk	nown NatiOpen H 1485 1485
Pay/Show/Water Informati	ION: VITY PRODUCT SECTION DEPT	H_TOP FM_TOP DEPTH_BOT	FM BOT G BEF G AFT O	BEF O AFT WATER ONTY	
4705103112 11/5/1940 Water 4705100112 11/5/1940 Water	Fresh Water Vertical	40		0	
There is no Production Ga	as data for this well				
There is no Production Oil	I data for this well " some or	erators may have reported	NGL under Oil		
	3L data for this well ** some	and the second se			
There is no Production Wa					
Stratigraphy Information:					
API SUFFIX FM 4705100112 Original Loc Sew		PTH_TOP DEPTH_QUALITY T	HICKNESS THICKNESS QUA	T20 Ground Level	
4705100112 Original Loc Pitts 4705100112 Original Loc Selt	sburch coal Weil Record	288 Reasonable 975 Reasonable	4 Ressonable 42 Reasonable	720 Ground Level 720 Ground Level	
4705100112 Original Loc Gree 4705100112 Original Loc Big I	enbrier Group Well Record	1330 Reasonable 1330 Reasonable	66 Reasonable 66 Reasonable	720 Ground Level 720 Ground Level	
4705100112 Original Loc Big I	Injun (PriceSeq) Well Record	1396 Reasonable	0 Reasonable	720 Ground Level	
There is no Wireline (E-Lo	og) data for this well				
Plugging Information: API PLG_DT DEPTH 4705100112 -4-1940	1_PBT				
There is no Sample data f	for this well				

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WV Department of Environmental Protection

Page 3 of 4



WW-9 (4/16)	API Number 47
DEPARTMENT OF	Operator's Well No. Woodford 4HM TE OF WEST VIRGINIA FENVIRONMENTAL PROTECTION 4705 * 02116 TICE OF OIL AND GAS
FLUIDS/ CUTTINGS	S DISPOSAL & RECLAMATION PLAN
Operator Name_Tug Hill Operating, LLC	OP Code494510851
Watershed (HUC 10) French Creek - Ohio River	Quadrangle Powhatan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	ST Tanks with proper containment will be used for staging fresh water for frac and flow back water No  If so, what ml.? AST Tenus will be used with proper contain
Proposed Disposal Method For Treated Pit Was	stes:
Land Application Underground Injection (UIC Reuse (at API Number	Permit Number_UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523)
Off Site Disposal (Supply for Other (Explain	rm WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes -	For Vertical and Horizontal Drilling
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc. Air for vertical / Oil for Horizontal
-If oil based, what type? Synthetic, petroleum,	etc. Synthetic Oil Base
Additives to be used in drilling medium? Barite for weigh	nt
Drill cuttings disposal method? Leave in pit, landfill, re	moved offsite, etc. All drill cuttings to be disposed of in a Landfill
-If left in pit and plan to solidify what medium	will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	County Sanitary Landfil (SWF-1021 / WV0109185) and Weatmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. ----

Office of Oil and Gas
AUG 14'2018
WV Department of Environmental Protection
_, 20_18
Notary Public NOTARIAL SEAL MAUREEN A STEAD Notary Public CECIL TWP, WASHINGTON COUNTY My Commission Expires Jan 28, 2019

## Tug Hill Operating, LLC

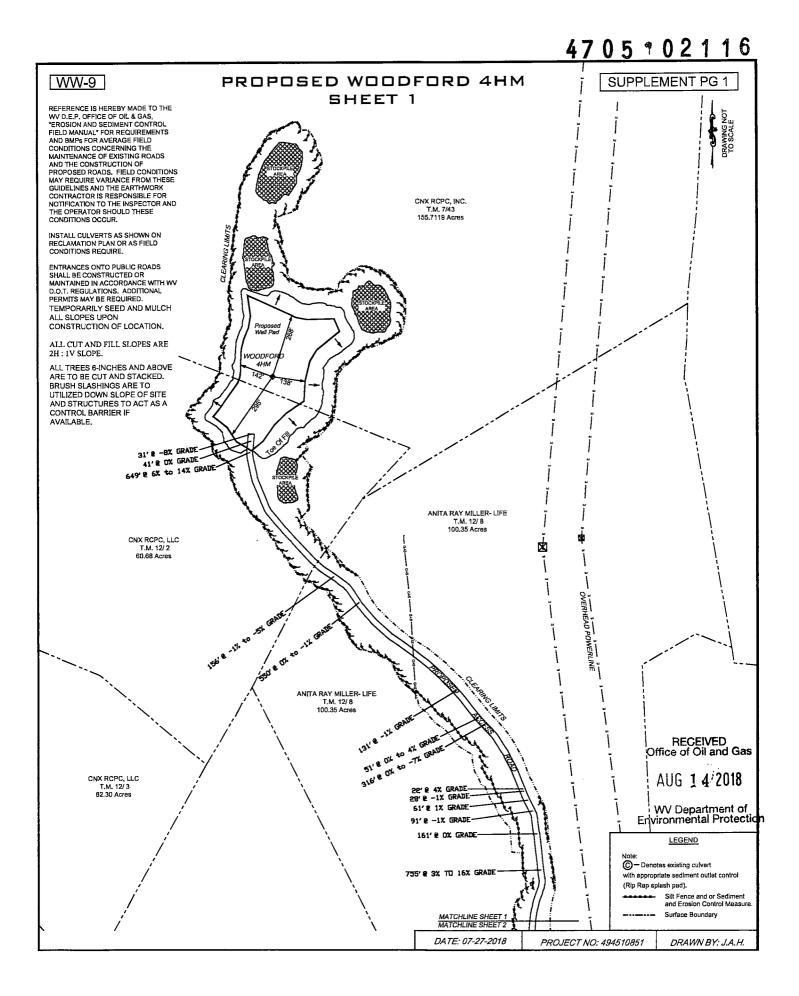
roposed Revegetation Treatmen			
Fertilizer type 10-20-			
Fertilizer amount 500		lbs/acre	
Mulch 2.5		Tons/acre	
Temp	orary	<u>Seed Mixtures</u> Permai	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
<sub>Seed Type</sub> Annual Ryegrass	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 12

Attach:

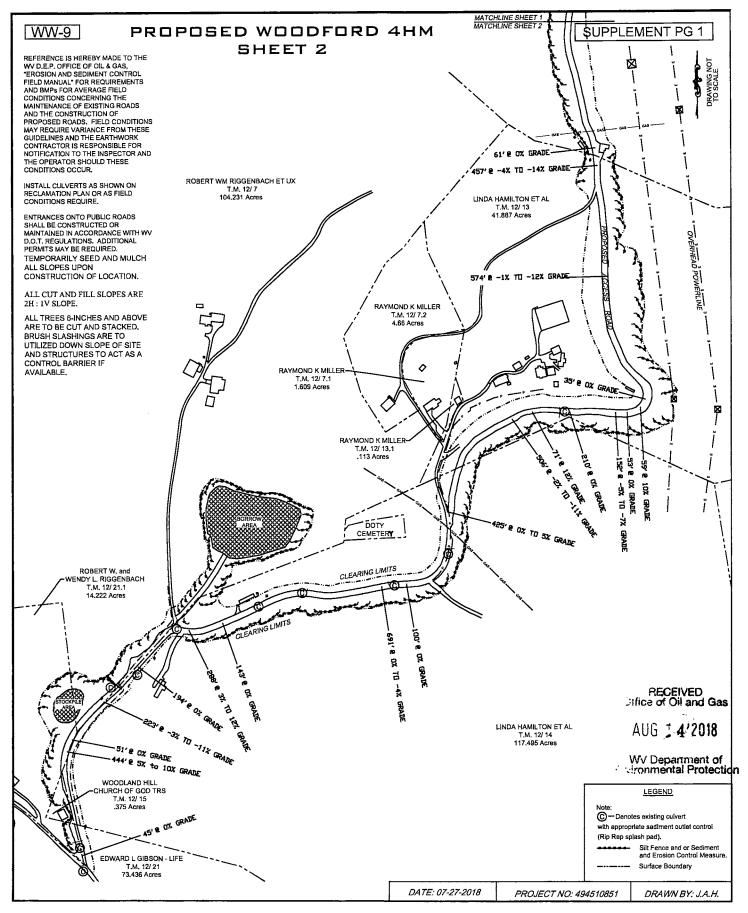
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: fin thereby	
Comments:	
	RECEIVED Office of Oil and Gas
	AUG 1 4'2018
	WV Department of Environmental Protection
Title: Oil and Gas Inspector Date: 8	8 8
Field Reviewed? ( )Yes ( )No	



## 4705 \* 02116





# Well Site Safety Plan

Well Name:Woodford 4HM

Pad Location: Woodford Pad

Marshall County, West Virginia

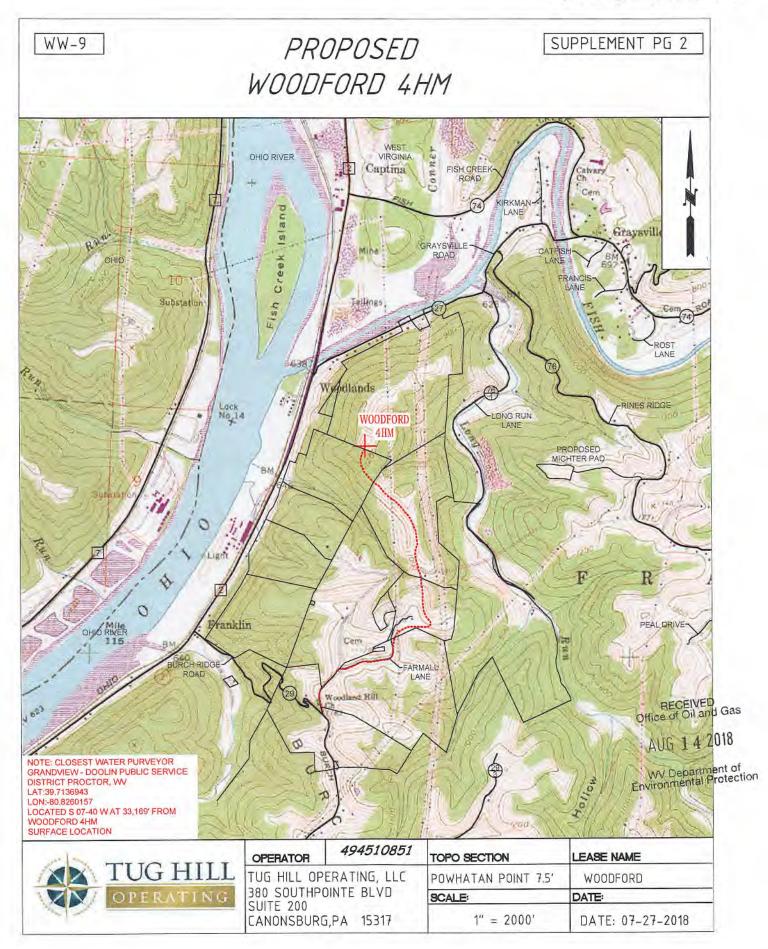
UTM (meters), NAD83, Zone 17:

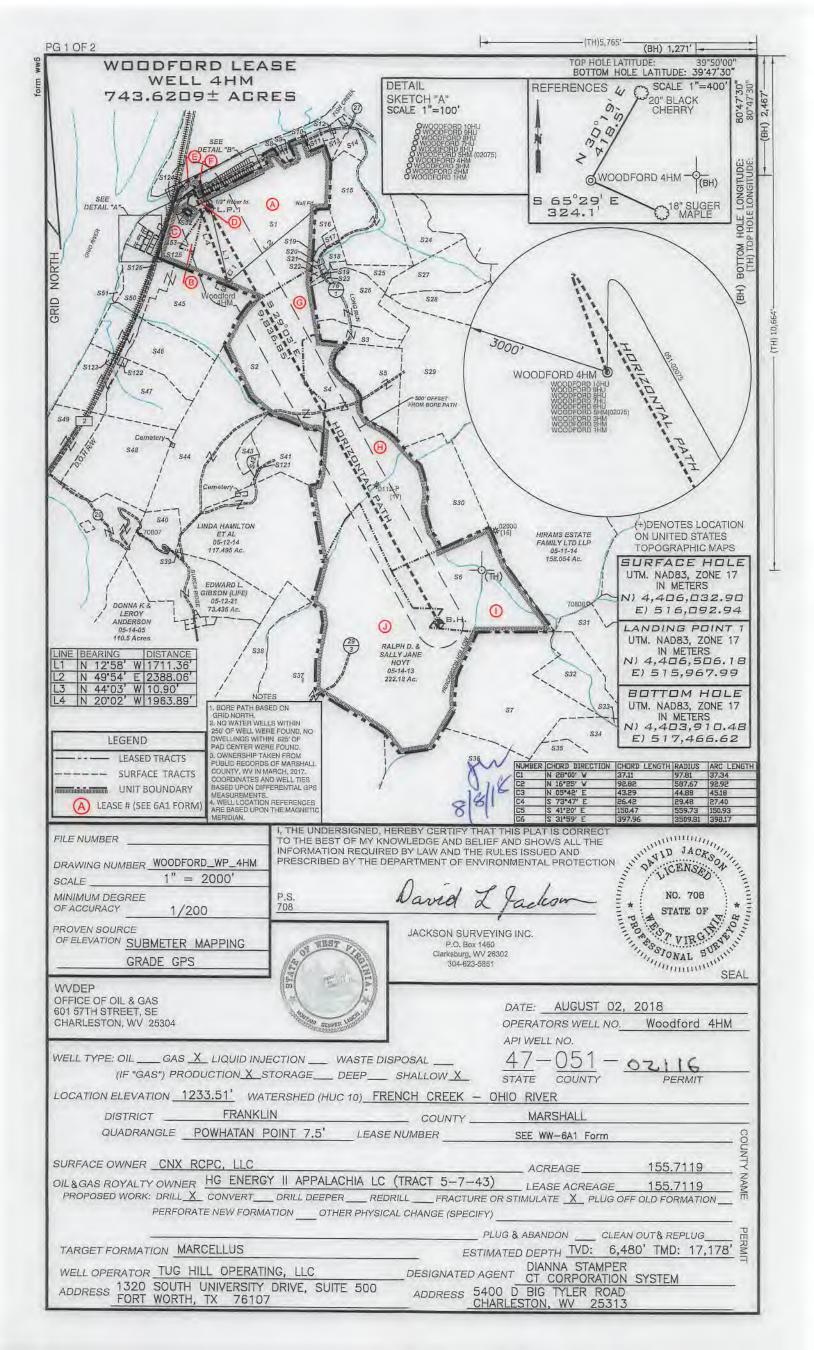
Northing: 4,406,032.90 Easting: 516,092.94

August 2018

Office of Oil and Gas AUG 14 2018 WV Department of Environmental Protection

## 4705 + 02116





2 OF 2	WOODE	JRD LEASE					1/ 1	
	WEL	L 4HM				8	568	
F	143.621	19± ACRES	1			Omorenes	1509	
-	JAN FISH CREEK	\$124 \$100 \$104 \$105 \$1 5124 \$100 \$104 \$107 \$1 5107 \$105 \$105 5105 \$10	5112 07			1	1585758671 FT	
	Chi Co	C24 597 598 502 5106 510 C24 597 598 502 5105 5105 C24 597 598 502 5105 5105		STT8 STT8 STT8 STT8		1 567	1503 1 550 1 550 T	
1	S125 ST	S71 KE S S S S S S S S S S S S S S S S S S	S86 S86 S86 S86 S88 S88 S88 S88 S88 S88	S92 S92 S95 S95 S95	596	1-11	Set 1 555	
1		I Las a garden - the to - to -to -to -to -to -to -to -to -to		<b>A</b>		1	1 1 1 854 88 1 1 9	
-		DETAIL "A" Scale 1"=500"				1	TAIL "B" Scale "=500'	
Number S1	TAX MAP-PARCEL 05-07-43	ADJOINER OWNER CNX RCPC, LLC	ACRES 155.7119	Number	TAX MAP-PARCEL	ADJOIN	ER OWNER	ACRES
S2 S3	05-12-08 05-12-10	Amita Rae Miller (Life) Consolidation Coal Co./	100.35 13.76	S51 S52	05-12-01 05-07-43.4	Ida	of America Campbell	1.68
S4	05-12-12.1	Murray Energy Lionel L. Persinger, Et Ux.	148.09	S53 S54 S55	05-07-43.1 05-7A-17 05-7A-18	Carol Martin	ad Commission & Harry L. Yoho ara Anderson	1.48 0.3067 0.1530
S5 S6	05-12-12 05-11-15	Lionel L. Persinger, Et Ux. Lionel L. Persinger, Et Ux.	45 93	S56 S57	05-7A-19 05-7A-20	Barba	ira Anderson Ity Sexton	0.3060
S7 S8	05-15-01 05-7B-49	Marcus Sharp & David Schlabach, Hrs. Cassidy Rain Carpenter	121	S58 S59	05-7A-24 05-7A-23	Rick	A. Kosky S. Young, et ux	0.3152
S9 S10	05-7B-48 05-07-43.3	Cassidy Rain Carpenter M. Frank Mason	1.325 0.327	S60 S61	05-7A-22 05-7A-21	Richard	d Hyer, et ux d A. Beyser	0.1530
S11 S12	05-07-43.2	M. Frank Mason John K. Persinger, Et Ux.	1.36	S62 S63	05-7A-25 05-7A-26	Lo	k A. Kosky nce Clark	0.1638
S13 S14	05-07-36 05-07-35	John K. Persinger Samuel L. Persinger	4.329 10.708	\$64 \$65	05-7A-27 05-7A-28	Richard	W. Barrett Hyer, et ux	0.1495
S15 S16	05-07-39 05-07-42.1	Lionel L. Persinger, et ux Holly Rice	57 5.99	S66 S67	05-7A-29 05-7A-30	Richard	d Hyer, et ux d Hyer, et ux f Natural Pasaurosa	0.1085
S17 S18	05-07-41 05-07-42.5	James A. Wade Matthew V. Conner, et al	1 3.791	S68 S69 S70	05-7A-31 05-7A-32 05-7A-02	Dawn The	f Natural Resources ompson Tennant RCPC, LLC	3.18 0.3091 2.23
S19 S20 S21	05-07-42 05-07-44 05-07-42.2	Tracy M. Kesterson Crystal B. Darrah Steven & Rhonda Lloyd	0.53 1.726 0.85	\$70 \$71 \$72	05-7A-02 05-7A-01 05-7B-25	Luc	dy D. Aliff	0.529
S22 S23	05-07-42.2 05-07-42.3 05-07-42.4	Joshua David Hartley Jason Reed Hartley	0.85	S73 S74	05-7B-26 05-7B-27	Cin	dy D. Aliff a A. Johnson	0.1148
S24 S25	05-07-33 05-12-09	William N. Roupe Lionel & Mary Lee Persinger	24.6	\$75 \$76	05-7B-28 05-7B-28.1	Patrici	a A. Johnson a A. Johnson	0.0574
S26	05-12-10.1	Consolidation Coal Co./ Murray Energy	38.48	S77 S78	05-7B-29 05-7B-30	Cindy	a A. Johnson D. Aliff, et al	0.1148
S27 S28	05-11-1.4	Larry W. Duniap, et al Larry W. Duniap &	32.493 34.405	S79 S80	05-7B-31 05-7B-32	Albert J	D. Aliff, et al . Anderson, Jr.	0.1148
S29	05-11-21	Charles Leroy Dunlap Karen Reed, et al	112.67	S81 S82	05-7B-33 05-7B-34	Albert J	. Anderson, Jr. . Anderson, Jr.	0.1182
\$30	05-12-11	Wesley B. Bryan & Wesley R. Bryan II	52.478	<u>S83</u> S84 S85	05-7B-35 05-7B-36	Albert J	. Anderson, Jr. . Anderson, Jr.	0.1217
S31 S32 S33	05-15-04 05-15-03 05-15-02	Joseph J. Kramer, et ux Joseph J. Kramer, et ux	41.106 36.10	\$86 \$87	05-7B-37 05-7B-38 05-7B-39	Teresa & T	homas Gouldsberry homas Gouldsberry homas Gouldsberry	0.1148 0.1148 0.1148
S34 S35	05-15-12	John David Petrock, et ux John David Petrock, et ux John David Petrock, et ux	5 25 150.23	S88 S89	05-7B-40 05-7B-41	Teresa & T	homas Gouldsberry homas Gouldsberry	0.1148
S36 S37	05-15-15 05-14-12	Robert L. Shields, et al Dale R. Gallaher, et al	49 135.100	S90 S91	05-7B-42 05-7B-43	Teresa & T	homas Gouldsberry homas Gouldsberry	0.1194
S38 S39	05-14-10 05-12-15	Wanda P. Rine (Life) Woodland Hills Church of	107.372	S92 S93	05-7B-44 05-7B-45	Daniel D. &	Mary E. Robinson Mary E. Robinson	0.1148
S40	05-12-21.1	God Trs. Robert W. Jr. & Wendy L.	14.222	\$94 \$95	05-7B-46 05-7B-47	Daniel D.	Robinson, et ux Robinson, et ux	0.1148
S41	05-12-13	Riggenbach Linda Hamilton, et al	41.887	S96 S97	05-7B-24 05-7B-23	Cin	dy D. Aliff dy D. Aliff	0.0354
S42 S43	05-12-7.1 05-12-7.2	Raymond K. Miller Raymond K. Miller	1.609 4.66	S98 S99 S100	05-7B-22 05-7B-21 05-7B-21.1	Patrici	a A. Johnson a A. Johnson a A. Johnson	0.0505 0.0287 0.0296
S44 S45 S46	05-12-07 05-12-02 05-12-03	Robert Wm. Riggenbach, et ux CNX RCPC, LLC CNX LAND, LLC	104.231 60.68	S100 S101 S102	05-7B-20 05-7B-19	Patrici	a A. Johnson D. Aliff, et al	0.0626
S47 S48	05-12-05 05-12-05 05-12-06	CNX LAND, LLC CNX RCPC, LLC	62.30 61.883 70.81	S103 S104	05-7B-18 05-7B-17	Cindy	D. Aliff, et al . Anderson, Jr.	0.0763
S49	05-12-6.2	Consolidation Coal Co./ Murray Energy	25.50	S105 S106	05-7B-16 05-7B-15	Albert J	. Anderson, Jr. . Anderson, Jr.	0.0903
S50	05-12-2.1	Consolidation Coal Co./ Murray Energy	22	S107 S108	05-7B-14 05-7B-13	Albert J	. Anderson, Jr. . Anderson, Jr.	0.0991
	mining			<u>S109</u> <u>S110</u> S111	05-7B-12 05-7B-11 05-7B-10	Teresa & T	homas Gouldsberry homas Gouldsberry homas Gouldsberry	0.1113
I'I'DA	ICENSS: 4	1		S112 S113	05-7B-10 05-7B-09 05-7B-08	Teresa & T	homas Gouldsberry homas Gouldsberry homas Gouldsberry	0.1199 0.1240 0.1286
	NO. 708	<b>1</b> 1111		S113 S114 S115	05-7B-08 05-7B-07 05-7B-06	Teresa & T	homas Gouldsberry homas Gouldsberry	0.1286
* *	NO. 708 STATE OF STONAL SURVIV	* ====		S116 S117	05-7B-05 05-7B-04	Daniel D. &	Mary E. Robinson Mary E. Robinson	0.1418
ROFE	ST VIRGING	unin.		<u>S118</u> S119	05-7B-03 05-7B-02	Daniel D. Daniel D.	Robinson, et ux Robinson, et ux	0.1504
""	MINIMUM SOLUTION			S120 S121	05-7B-01 05-12-13.1	Patricio Raymo	a L. Robinson ond K. Miller	1.257
				S122 S123	05-12-5.1 05-12-04	CNX CNX	RCPC, LLC RCPC, LLC	0.52
s. N.	aved Z	Jackson		S124 S125 S126	Fish Creek Rt. 2	State Ro	te of W.V. ad Commission	2.43(Cald 17.62(Cald
	1			-	R.R. RATOR'S	USX I	WELL PLAT	4.99(Calc
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iA		IUGH	TTT	, DIST	RIC <u>T: Fran</u>	klin	PAGE 2 OF	
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WW-6A1 (5/13) Operator's Well No. Woodford 4HM

## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	*0	See attached pages		

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- · WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Tug Hill Operating, LLC
By:	Amy L. Miller any Suller
Its:	Permitting Specialist

RECEIVED Office of Oil and Gas

AUG 14'2018

WV Department of Environmental Protection

Page 1 of \_\_\_\_

## WW 6A1 Supplement

## Operator's Well No. <u>Woodford - 4HM</u>

WW-BAI	. Supplem	ient		es G	if ttion					Operator s	weii no. <u>wo</u>	<u> Doatora - 4HIVI</u>
Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Ete	Rowalty	Deed B	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment
C C S 0411120	5-7-43	A	COLUMBIAN CHEMICAL COMPANY	Grantee, Lessee, Be Grantee, B	Environmental Prov +8/1 +8/1	691	363	CNX Land Resources Inc to CNX Gas Company LLC: 745/117	CNX Gas Company LLC to Noble Energy Inc: 752/66	CNX Gas Company LLC to Noble Energy Inc: 909/94	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286
<b>C</b> <b>4</b> Q075763000	5-7-43.1	В	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	NOBLE ENERGY INC	1/8+	797	642	N/A	N/A	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286
Q088417001	STATE ROAD COMMISSION	С	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	NOBLE ENERGY INC	1/8+	845	332	N/A	N/A	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/407	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286
041112	5-7A-2	D	COLUMBIAN CHEMICAL COMPANY	CNX LAND RESOURCES INC	1/8+	691	363	CNX Land Resources Inc to CNX Gas Company LLC: 745/117	CNX Gas Company LLC to Noble Energy Inc: 752/66	CNX Gas Company LLC to Noble Energy Inc: 909/94	Noble Energy Inc to HG Energy II Appalachia LLC: 931/43	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286
Q091960000	FISH CREEK - WV	E	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	NOBLE ENERGY INC	1/8+	865	558	N/A	N/A	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286
Q074927000	5-7A-1	F	LUCILLE MYERS	NOBLE ENERGY INC		794	497	N/A	N/A	N/A	Noble Energy Inc to HG Energy II Appalachia LLC: 39/1	Memorandum of Operating Agreement between TH Exploration LLC and HG Energy II Appalachia, LLC: 988/286

## WW-6A1 Supplement



# Operator's Well No. <u>Woodford - 4HM</u>

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Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed B	oolothage	Astenment	Assignment	Assignment	Assignment	Assignment
10*18827	5-12-8	G	ERIN E SCHOLL	TH EXPLORATION LLC	1/8+	937	626	C DEN/A	N/A	N/A	N/A	N/A
10*18985	5-12-8	G	REBECCA LYNN KIER AND ERIC JAMES KIER	TH EXPLORATION LLC	1/8+	937	<b>Q</b> 05	R SEN/A	N/A	N/A	N/A	N/A
10*3368	5-12-8	G	E SHIELA PAVLOVICH	TH EXPLORATION LLC	1/8+	940	291	S.S N/A	N/A	N/A	N/A	N/A
<b>8</b> ~			JEANNE MARIE VAN GROL AND RICHARD ARTHUR VAN					L.				
10*18969	5-12-8	G	GROL	TH EXPLORATION LLC	1/8+	941	289	N/A	N/A	N/A	N/A	N/A
10*15500	5-12-8	G	JAMES CONTRERAS AND CATHERINE CONTRERAS	TH EXPLORATION LLC	1/8+	942	608	N/A	N/A	N/A	N/A	N/A
10*19825	5-12-8	G	THOMAS A POWDERLY	TH EXPLORATION LLC	1/8+	945	639	N/A	N/A	N/A	N/A	N/A
10*19826	5-12-8	G	TERRANCE V POWDERLY SR	TH EXPLORATION LLC	1/8+	945	637	N/A	N/A	N/A	N/A	N/A
10*19827	5-12-8	G	CORINNE E VERNA AND JONATHAN C VERNA SR	TH EXPLORATION LLC	1/8+	945	635	N/A	N/A	N/A	N/A	N/A
10*15828	5-12-8	G	ANNE M AND JOHN LEACH	TH EXPLORATION LLC	1/8+	945	633	N/A	N/A	N/A	N/A	N/A
10*19829	5-12-8	G	MARGARET J WHITFORD AND LANCE W WHITFORD	TH EXPLORATION LLC	1/8+	945	631	N/A	N/A	N/A	N/A	N/A
10*19830	5-12-8	G	DAVID POWDERLY AND NANCY A POWDERLY	TH EXPLORATION LLC	1/8+	945	629	N/A	N/A	N/A	N/A	N/A
10*21002	5-12-8	G	STANLEY EUGENE STOWE	TH EXPLORATION LLC	1/8+	951	215	N/A	N/A	N/A	N/A	N/A
10*21045	5-12-8	G	SANDRA J HARMON AND WALTER D HARMON	TH EXPLORATION LLC	1/8+	951	217	N/A	N/A	N/A	N/A	N/A
10*21190	5-12-8	G	MARGARET CLICKNER	TH EXPLORATION LLC	1/8+	941	283	N/A	N/A	N/A	N/A	N/A
10*21223	5-12-8	G	EUGENE C GRIEB AND SHIRLEY K GRIEB	TH EXPLORATION LLC	1/8+	961	468	N/A	N/A	N/A	N/A	N/A
10*21607	5-12-8	G	SHERLEY R STOWE & KAREN M STOWE	TH EXPLORATION LLC	1/8+	959	474	N/A	N/A	N/A	N/A	N/A
10*21924	5-12-8	G	BEVERLY A MILLER	TH EXPLORATION LLC	1/8+	953	533	N/A	N/A	N/A	N/A	N/A
10*21926	5-12-8	G	VIOLA JANE BREON AND JAMES RONALD BREON	TH EXPLORATION LLC	1/8+	953	360	N/A	N/A	N/A	N/A	N/A
10*21929	5-12-8	G	BENNY MILLER	TH EXPLORATION LLC	1/8+	960	177	N/A	N/A	N/A	N/A	N/A
10*21930	5-12-8	G	JAMES A GRENOBLE AND MARY JANE GRENOBLE	TH EXPLORATION LLC	1/8+	953	263	N/A	N/A	N/A	N/A	N/A
10*21938	5-12-8	G	SEAN M GRENOBLE AND CHERYL A GRENOBLE	TH EXPLORATION LLC	1/8+	960	91	N/A	N/A	N/A	N/A	N/A
10*21939	5-12-8	G	ULA F NELSON	TH EXPLORATION LLC	1/8+	960	96	N/A	N/A	N/A	N/A	N/A
10*22051	5-12-8	G	NOEL A PARKS	TH EXPLORATION LLC	1/8+	960	509	N/A	N/A	N/A	N/A	N/A
10*22309	5-12-8	G	AARON D LITMAN AND BETTY J LITMAN	TH EXPLORATION LLC	1/8+	963	408	N/A	N/A	N/A	N/A	N/A
10*22311	5-12-8	G	WILLIAM L LITMAN AND VICKIE L LITMAN	TH EXPLORATION LLC	1/8+	963	404	N/A	N/A	N/A	N/A	N/A
10*22312	5-12-8	G	RICHARD WOOD AND VICKI WOOD	TH EXPLORATION LLC	1/8+	962	528	N/A	N/A	N/A	N/A	N/A
40*222.40	5 42 0			AMERICAN PETROLEUM				· · · · ·				American Petroleum Partners Operating LLC to TH Exploration LLC:
10*22349	5-12-8	G	ANITA RAE MILLER	PARTNERS LLC	1/8+	910	152	N/A	N/A	N/A	N/A	42/109
10*22408	5-12-8	G	REBECCA S TARR	TH EXPLORATION LLC	1/8+	962	578	N/A	N/A	N/A	N/A	N/A
10*22548	5-12-8	G	SHARON TOLER WILLIAMS & HERVY WILLIAMS	TH EXPLORATION LLC	1/8+	966	194	N/A	N/A	N/A	N/A	N/A
10*22604	5-12-8	G	WILLIAM LEESON	TH EXPLORATION LLC	1/8+	966	499	N/A	N/A	N/A	N/A	N/A
10*22605	5-12-8	G	MICHAEL R LEESON AND BRENDA R LEESON	TH EXPLORATION LLC	1/8+	966	496	N/A	N/A	N/A	N/A	N/A
10*22744	5-12-8	G	BRIDGET A POWDERLY	TH EXPLORATION LLC	1/8+	968	206	N/A	N/A	N/A	N/A	N/A
10*22858	5-12-8	G	THOMAS C DAVIS AND MARY ELLEN DAVIS	TH EXPLORATION LLC	1/8+	977	63	N/A	N/A	N/A	N/A	N/A
10*23004	5-12-8	G	KLOVA A MORRIS	TH EXPLORATION LLC	1/8+	977	382	N/A	N/A	N/A	N/A	N/A
10*16918	5-12-12.1	Н	LIONEL L AND MARY LEE PERSINGER	TH EXPLORATION LLC	1/8+	976	617	N/A	N/A	N/A	N/A	N/A

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Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed B	Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment
<b>C</b> <b>O</b> §	5-11-15		FORREST MILLER	GASTAR EXPLORATION USA, INC.	1/0		216		Affice of CEN AUG 1 4 1	Gastar Exploration USA Inc to Atinum Marcellus	1 '	Gastar Exploration nc to TH Exploration II LLC:
10*16913	5-11-15		LIONEL LAND MARY LEE PERSINGER	TH EXPLORATION LLC	1/8+	819 976	316 626	N/A N/A	1054 407A	I LLC: 23/353	21/41 N/A	36/9 N/A
10*16913 10*17329	5-11-15		JOHN P AND REVA J ICARD	TH EXPLORATION LLC	1/8+	976	524	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A
10 18045	5-11-15		KLOVA A MORRIS	TH EXPLORATION LLC	1/8+	943	114	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
18174	5-11-15	1	THE ESTATE F ROY JOSEPH LEACH	TH EXPLORATION LLC	1/8+	927	647	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
10*19642	5-11-15	<u> </u>	NOEL A PARKS	TH EXPLORATION LLC	1/8+	944	92	N/A	N/A N/A	N/A	N/A N/A	N/A N/A
10*21455	5-11-15		MELISSA MILLER GIBSON & JAMES GIBSON	TH EXPLORATION LLC	1/8+	953	308	N/A	N/A	N/A	N/A N/A	N/A N/A
10*21903	5-11-15		WILLIAM R VOLTZ & SHARON VOLTZ	TH EXPLORATION LLC	1/8+	960	182	N/A	N/A	N/A	N/A	N/A N/A
10*21904	5-11-15	1	MARY S MAGERS & WILLIAM MAGERS	TH EXPLORATION LLC	1/8+	960	158	N/A	N/A	N/A	N/A	N/A
10*21905	5-11-15	1	DAVID F VOLTZ AND LINDA VOLTZ	TH EXPLORATION LLC	1/8+	961	444	N/A	N/A	N/A	N/A	N/A
10*21906	5-11-15	1	MICHAEL P VOLTZ	TH EXPLORATION LLC	1/8+	960	164	N/A	N/A	N/A	N/A	N/A
10*21910	5-11-15	1	J THOMAS VOLTZ AKA JOHN THOMAS VOLTZ	TH EXPLORATION LLC	1/8+	960	179	N/A	N/A	N/A	N/A	N/A
10*21939	5-11-15	1	ULA F NELSON	TH EXPLORATION LLC	1/8+	960	96	N/A	N/A	N/A	N/A	N/A
10*22134	5-11-15	1	JACK M FOREMAN	TH EXPLORATION LLC	1/8+	961	449	N/A	N/A	N/A	N/A	N/A
10*22309	5-11-15	I	AARON D LITMAN AND BETTY J LITMAN	TH EXPLORATION LLC	1/8+	963	408	N/A	N/A	N/A	N/A	N/A
10*22311	5-11-15		WILLIAM L LITMAN AND VICKIE L LITMAN	TH EXPLORATION LLC	1/8+	963	404	N/A	N/A	N/A	N/A	N/A
10*22312	5-11-15	1	RICHARD WOOD AND VICKI WOOD	TH EXPLORATION LLC	1/8+	962	528	N/A	N/A	N/A	N/A	N/A
10*22438	5-11-15		JULIE FOREMAN SPRINGWATER	TH EXPLORATION LLC	1/8+	964	231	N/A	N/A	N/A	N/A	N/A
10*22559	5-11-15	1	SHARON TOLER WILLIAMS & HERVY WILLIAMS	TH EXPLORATION LLC	1/8+	966	94	N/A	N/A	N/A	N/A	N/A
										Gastar Exploration USA	Merger - Gastar Exploration USA Inc into Gastar	Gastar Exploration nc to
				GASTAR EXPLORATION USA,						Inc to Atinum Marcellus	Exploration Inc:	TH Exploration II LLC:
10*14067	5-14-13	1	REVA FRANZE	INC.	1/8+	666	51	N/A	N/A	I LLC: 23/353	21/41	36/9

# MOU GAI Supplement

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STATE OF TEXAS	§
	§ SS
COUNTY OF TARRANT	§

On this <u>184</u> day of <u>0 cto ber</u>, 2016, before me, the undersigned authority, personally appeared David D. Kalish ("Affiant") who being first duly sworn under oath, deposes and saith:

- TH Exploration, LLC, TH Exploration II, LLC and TH Exploration III, LLC are wholly owned subsidiaries of THQ Appalachia I, LLC.
- Tug Hill Operating, LLC provides oil and gas operations services to THQ Appalachia I, LLC under an Operating Services Agreement dated July 23, 2014.
- David D. Kalish, the Affiant, is the Vice President of Tug Hill Operating, LLC, THQ Appalachia I, LLC, TH Exploration, LLC, TH Exploration II, LLC and TH Exploration III, LLC, and;
- 3. Tug Hill Operating, LLC is authorized to operate and maintain the assets owned by THQ Appalachia I, LLC, including, as referenced above, TH Exploration, LLC, TH Exploration II, LLC, and TH Exploration III, LLC, including oil and gas leases, wells, pipelines, surface facilities, and other all other assets that support the business of THQ Appalachia I, LLC, and;
- Specifically, Tug Hill Operating, LLC is authorized to submit and obtain well work permits and carry out all activities pursuant to such work permits for assets owned by TH Exploration, LLC, TH Exploration II, LLC, TH Exploration III, LLC.

AUG 1 4'2018

WV Department of Environmental Protection

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 18th day of October, 2016.

Affiant: David D. Kalish

FURTHER, AFFIANT SAITH NOT.

JURAT

STATE OF TEXAS COUNTY OF TARRANT Jan Pest MAREHALL County 03:44:28 PM Instrument No 1416299 Date Recorded 10/19/2016 Document Type MIS Pages Recorded 1 Bock-Page 28-62 Recording Fee \$5.00 Additional \$6.00

Sworn and subscribed to (or affirmed) before me on this, the 18th day of October, 2016, by David D. Kalish

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

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My Commission Expires: 10 - 05 - 2020 Signature/Notary Public? Name/Notary Public (Print): Kobin

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#### DPS LAND SERVICES CORP 6000 TOIN CENTER BOLLEVARD, SUITE 145 CANUNSBURG PA 15317-5841

# 4705102116

#### MEMORANDUM OF OPERATING AGREEMENT AND FINANCING STATEMENT

This Memorandum of Operating Agreement and Financing Statement (hereinafter referred to as "Memorandum") is executed to be effective concurrently with that certain Operating Agreement (the "Operating Agreement") by and between TH Exploration, LLC, as Operator, and HG Energy II Appalachia, LLC and TH Exploration II, LLC, as Non-Operators, covering, among other things, the development and production of crude oil, natural gas and associated substances from the leases (hereinafter called the "Contract Area") described on Exhibit "A-1" and Exhibit "A-2" attached hereto and owned by Operator and Non-Operator in the respective percentages of shares indicated on Exhibit "A" to the Operating Agreement.

The Operating Agreement contains an Accounting Procedure, along with provisions giving the parties hereto mutual liens and security interests where one or more parties hereto are or may become Debtors to one or more other parties hereto. This Memorandum incorporates by reference all of the terms and conditions of the Operating Agreement, including but not limited to the lien and security interest provisions.

The purpose of this Memorandum is to place third parties on notice of the Operating Agreement, and to secure and perfect the mutual liens and security interests of the parties hereto.

The Operating Agreement specifically provides and the parties do hereby confirm and agree that:

- The Operator shall conduct and direct and have full control of all operations on the Contract Area as permitted and required by, and within the limits of, the Operating Agreement.
- The liability of the parties under the Operating Agreement shall be several, not joint or collective. Each party shall be responsible only for its obligations and shall be liable only for its proportionate share of costs.
- Each Non-Operator grants to Operator a lien upon its oil and gas rights, oil and 3. gas leases and mineral interests in the Contract Area, and a security interest in its share of oil and/or gas when extracted and its interest in all fixtures, inventory, personal property and equipment located on or used on the Contract Area and in all its contract rights and receivables related thereto and arising therefrom to secure payment of its present and future share of costs and expenses, together with interest thereon at the rate provided in the Accounting Procedure referred to above. To the extent that Operator has a security interest under the Uniform Commercial Code ("Code") of the state or states in which the Contract Area is located, Operator without prejudice and in addition to all other legal, equitable and contractual remedies which are expressly reserved, shall be entitled to exercise the rights and remedies of a secured party under the Code. The bringing of a suit and the obtaining of judgment by Operator for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the rights or security interests for the payment thereof.
- 4. The Operator grants to Non-Operator a lien and security interest equivalent to that granted to Operator as described in Paragraph 3 above, to secure payment by Operator of its own share of costs and expenses when due.

As reflected above, either or both Operator and Non-Operator may become Debtors if they default in their payment obligations under the terms of the Operating Agreement. On default, the non-defaulting party(ies) will be considered secured party(ies).

The Operating Agreement contains other provisions which do not conflict but supplement the above-described provisions, including, but not limited to, non-consent provisions which provide that parties who elect not to participate in certain operations shall be deemed to have relinquished their interest until the consenting parties are able to recover their costs of such operations plus a specified amount. Should any person or firm desire additional information regarding the Operating Agreement or wish to inspect a copy of the Operating Agreement, said person or firm should contact the Operator.

For purposes of protecting said liens and security interest, the undersigned parties agree that this Memorandum covers all right, title and interest of the Debtors in:

#### Property Subject to Security Interests:

- (A) All personal property located upon or used in connection with the Contract Area.
- (B) All fixtures on the Contract Area.
- (C) All oil, gas and associated substances of value in, on or under the Contract Area, or which may be extracted therefrom.
- (D) All accounts and receivables resulting from the sale of the items described in subparagraph (C) at the wellhead of every well located on the Contract Area or on lands pooled therewith.
- (E) All items used, useful, or purchased for the production, treatment, handling, storage, transportation, processing, manufacture, or sale of the items described in subparagraph (C).
- (F) All accounts, contract rights, rights under any gas balancing agreement, general intangibles, equipment, inventory, farmout rights, option farmout rights, acreage and/or cash contributions, and conversions rights, whether now owned or existing or hereafter acquired or arising, including but not limited to all interest in any enterprise that holds, owns, or controls any interest in the Contract Area or in any property encumbered by this Memorandum.
- (G) All severed and extracted oil, gas and associated substances now or hereafter produced from or attributable to the Contract Area, including without limitation, oil, gas and associated substances in tanks or pipelines or otherwise held by any person or entity for treatment, storage, transportation, manufacture, processing or sale.
- (H) All the proceeds and products of the items described in the foregoing paragraphs now existing or hereafter arising, and all substitutions therefore, improvements and enhancements thereto, replacements thereof, or accessions thereto.
- (I) All personal property and fixtures now and hereafter acquired in furtherance of the purposes of this Operating Agreement. Certain of the above-described items are, or are to become, fixtures on the Contract Area.
- (J) The proceeds and products of collateral are also specifically covered.

#### Property Subject to Liens:

- (A) All real property, within the Contract Area, including all oil, gas and associated substances of value in, on or under the Contract Area, or which may be extracted therefrom.
- (B) All fixtures within the Contract Area.
- (C) All real property and fixtures now and hereafter acquired in furtherance of the purposes of this Operating Agreement.

The above items will be financed at the wellhead of the well or wells located on the Contract Area, and this Memorandum is to be filed for record in the real estate records of the county and in the Uniform Commercial Code records in which the Contract Area is located.

On default of any covenant or condition of the Operating Agreement, in addition to any other remedy afforded by law, each party to the Operating Agreement and any successor to such party by assignment, operation of law, or otherwise, shall have, and is hereby given and vested with, the power and authority to take possession of and sell any interest which the defaulting party has in property identified above securing the obligations provided in the Operating Agreement and to foreclose this lien and security interest in the manner provided by law.

Upon expiration of the Operating Agreement and the satisfaction of all debts and outstanding interest, the Operator shall file of record a release and termination on behalf of all parties concerned. Upon the filing of such release and termination, all benefits and obligations under this Memorandum shall terminate as to all parties who have executed or ratified this Memorandum. In addition, the Operator shall have the right to file a continuation statement on behalf of all parties who have executed or ratified this Memorandum the Agreement of the Agreement of the Agreement and the Agreement of the Agreement and the Ag

It is understood and agreed by the parties hereto that if any part, term or provision of this Memorandum is held to be illegal or in conflict with any applicable state or federal law or regulation, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Memorandum did not contain the particular part, term or provision held to be invalid.

This Memorandum shall be binding upon and shall inure to the benefit of the parties hereto and to their respective heirs, devisees, legal representatives, successors and assigns.

A party having an interest in the Contract Area can ratify this Memorandum by execution hereof or a separate counterpart hereof or by execution and delivery of an instrument of ratification, adopting the provisions of this Memorandum or agreeing to be bound by the terms hereof. Any such ratification shall have the same effect as if the ratifying party had executed this Memorandum or a counterpart thereof. By execution or ratification of this Memorandum, such party hereby consents to its ratification and adoption by any party who may have or may acquire any interest in the Contract Area.

The parties hereto agree to execute, acknowledge and deliver or cause to be executed, acknowledged and delivered any instrument, or take any action necessary or appropriate to effectuate the terms of the Operating Agreement or any Exhibit, instrument, certificate or other document pursuant thereto.

This Memorandum may be executed or ratified in one or more counterparts and all of the executed or ratified counterparts shall together constitute one instrument. For purpose of recording, only one copy of this Memorandum with individual signature pages attached thereto needs to be filed of record.

Executed this 1st day of July, 2018.

**OPERATOR: TH Exploration, LLC** 

By: Name: Sean Willis

Title: Sr. Vice President

#### NON-OPERATOR: HG Energy II Appalachia, LLC

By:

Name: Jared Hall Title: President

#### NON-OPERATOR: TH Exploration II, LLC

By: Dand D.

Name: David Kalish Title: Sr. Vice President - Land

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# 4705102116

ACKNOWLEDGEMENT

COMMONWEALTH OF TENNS CUANIA	)	~~
COUNTY OF WASHINGTON	)	SS:

On this the 11th day of July 2018, before me, a notary public, the undersigned authority, personally appeared Sean Willis, who acknowledged his self to be the Sr. Vice President of TH Exploration, LLC, a limited liability company, and that he as such Sr. Vice President being authorized to do so, executed the foregoing instrument for the purposed therein contained by signing the name of the limited liability company by his self as Sr. Vice President.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.	
My Commission Expires: 2/10/2020 Signature/Notary Public:	L Defe
Name/Notary Public (print): DADIO G. DeLALES	COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL David Gabriel DeLallo, Notary Public Cacil Township, Washington County My Commission Expires February 16, 2020
ACKNOWLEDGEMENT	
COMMONWEALTH OF Period VANIA ) ) SS: COUNTY OF Washerman )	
On this the 11 <sup>th</sup> day of July 2018, before me, a notary public, the unde appeared David D. Kalish, who acknowledged his self to be the Sr. V	ice President - Land of TH

appeared David D. Kalish, who acknowledged his self to be the Sr. Vice President - Land of TH Exploration II, LLC, a limited liability company, and that he as such Sr. Vice President - Land being authorized to do so, executed the foregoing instrument for the purposed therein contained by signing the name of the limited liability company by his self as Sr. Vice President - Land.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: 2 6 2020 Signature/Notary Public:

SS:

Name/Notary Public (print): 4

COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL David Gebriel DeLailo, Notary Public Cecil Township, Washington County My Commission Expires February 16, 2020

ACKNOWLEDGEMENT

STATE OF WEST VIRGINIA

COUNTY OF WOOD

This instrument was acknowledged before me on the \_\_\_\_\_ day of \_\_\_\_\_\_, 2018 by Jared Hall, as President of HG Energy II Appalachia, LLC, a Delaware limited liability company, on behalf of said company.

Given under my hand and seal this the \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Notary Public, State of \_\_\_\_\_

Prepared by and please return to: TH Exploration, LLC 380 Southpointe Boulevard, Suite 200 Canonsburg, PA 15317

# 4705102116

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The parties hereto agree to execute, acknowledge and deliver or cause to be executed, acknowledged and delivered any instrument, or take any action necessary or appropriate to effectuate the terms of the Operating Agreement or any Exhibit, instrument, certificate or other document pursuant thereto.

This Memorandum may be executed or ratified in one or more counterparts and all of the executed or ratified counterparts shall together constitute one instrument. For purpose of recording, only one copy of this Memorandum with individual signature pages attached thereto needs to be filed of record.

Executed this 1st day of July, 2018.

## **OPERATOR:** TH Exploration, LLC

By: \_\_\_\_\_\_ Name: \_\_\_\_\_\_ Title: \_\_\_\_\_

NON-OPERATOR: HG Energy II Appalachia, LLC

Name: Jared Hall By: C

Title: President

### NON-OPERATOR: TH Exploration II, LLC

By: \_\_\_\_\_\_ Name: \_\_\_\_\_\_ Title: \_\_\_\_\_\_

## 4705102116

### ACKNOWLEDGEMENT

STATE OF \_\_\_\_\_ ) ) SS:

COUNTY OF

On this the \_\_\_\_\_ day of \_\_\_\_\_\_ 2018, before me, a notary public, the undersigned authority, personally appeared Sean Willis, who acknowledged his self to be the Sr. Vice President of TH Exploration, LLC, a limited liability company, and that he as such Sr. Vice President being authorized to do so, executed the foregoing instrument for the purposed therein contained by signing the name of the limited liability company by his self as Sr. Vice President.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: \_\_\_\_\_ Signature/Notary Public: \_\_\_\_

Name/Notary Public (print):

### ACKNOWLEDGEMENT

STATE OF ý SS:

COUNTY OF \_\_\_\_\_

On this the \_\_\_\_\_ day of \_\_\_\_\_ 2018, before me, a notary public, the undersigned authority, personally appeared David D. Kalish, who acknowledged his self to be the Sr. Vice President -Land of TH Exploration II, LLC, a limited liability company, and that he as such Sr. Vice President - Land being authorized to do so, executed the foregoing instrument for the purposed therein contained by signing the name of the limited liability company by his self as Sr. Vice President - Land.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: \_\_\_\_\_ Signature/Notary Public: \_\_\_\_\_

Name/Notary Public (print):

#### ACKNOWLEDGEMENT

STATE OF WEST VIRGINIA ) SS: COUNTY OF WOOD

This instrument was acknowledged before me on the 11 day of 3uy, 2018 by Jared Hall, as President of HG Energy II Appalachia, LLC, a Delaware limited liability company, on behalf of said company.

Given under my hand and seal this the  $\underline{11}$  day of  $\underline{July}$ , 2018.



Jeanne M. Saulton Notary Public, State of Wist Virginia

Prepared by and please return to: TH Exploration, LLC 380 Southpointe Boulevard, Suite 200 Canonsburg, PA 15317

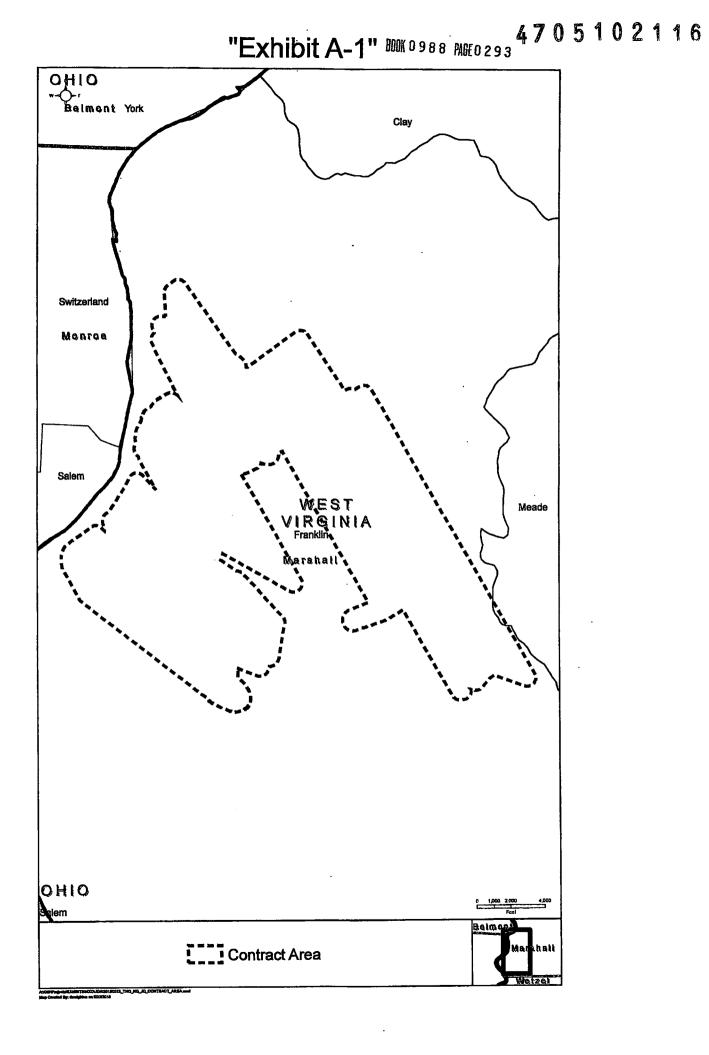


	Exhibit TH Explora TH Explorat	tion, LLC				
	SPECIFIC LEASES SUBJECT	TO THIS AGREE	MENT			_
Thutease ID	Lessor	in a stease Date	Country S	State	Book	Den
10*14042	RALPH B TAYLOR	12/4/2007	Marshall	WV	665	487
10*14043	PATRICK R. WALSH	1/4/2011	Marshall	WV	725	566
10*14044	JOSEPH WESLEY GALLAHER, II	1/4/2011	Marshall	WV	724	232
10*14045	LAMOYNE BAKER	1/4/2011	Marshall	WV	724	236
10*14046	CHARLES THOMPSON GALLAHER, II	1/4/2011	Marshall	WV	724	234
10*14047	LESLIE ANN BLYTHE	2/2/2011	Marshall	WV	726	645
10*14048	BRYANNA FLYNN RANKIN	1/11/2011	Marshall	WV	727	3
10*14049	WILDA WINTERS	1/25/2011	Marshall	wv	726	643
10*14050	JUDITH L CHAMBERS	1/4/2011	Marshall	WV	726	647
10*14051	AMANDA L. SMITH	1/4/2011	Marshall	WV	727	572
10*14052	MAY EUZABETH GALLAHER BROWNIN	1/4/2011	Marshall	WV	727	568
10*14053	LARRY D. MCWHORTER	2/2/2011	Marshall	WV	727	570
10*14054	RUDOLPH RAUKAR, JR.	2/22/2011	Marshall	WV	730	189
10*14055	VICTOR PEDDICORD	1/11/2011	Marshall	WV	730	193
10*14056	WALLACE T. BERRY	4/5/2011	Marshall	WV	731	156
10*14057	THE SAMUEL MILTON SHEETS TRUST	4/7/2011	Marshall	wv	732	624
10*14058	NANCY HOFSTATTER	4/5/2011	Marshall	wv	732	628
10*14059	LAURA BERRY MCGLYNN	4/5/2011	Marshall	WV	732	622
10*14060	SUSAN E GORE	5/2/2012	Marshall	wv	768	488
10*14061	LINDA TAYLOR	5/2/2012	Marshall	WV	770	476
10*14052	REBECCA MCMILLAN	9/4/2011	Marshall	WV	803	482
10*14063	DAVID BURKETT	9/4/2011	Marshall	wv	803	480
10*14064	CIRRUS MINERALS LLC REVA FRANZE	6/1/2011 1/25/2008	Marshall Marshall	WV	843 666	452
10*14099	SOUTHERN COUNTRY FARMS INC	1/18/2008	Marshall	wv	665	489
10*14100 10*14101 10*14102 10*14102 10*14103 10*14104 10*14105	SAMMY EDWARD WHITLATCH RICHARD P WHITLATCH GLORIA TERRILL ROSE R DAUGHERTY AND JAMES N GLENNA ANDERSON AND DALE ANDER WENDELL RINE AND CAROLYN RINE	11/9/2007 11/9/2007 3/18/2010 3/18/2010 3/18/2010 3/18/2010	Marshall Marshall Marshall Marshall Marshall Marshall	WV WV WV WV WV WV	665 665 698 698 698 698	369 366 633 635 625 627
10*14101       10*14102       10*14103       10*14104       10*14105       10*14106	RICHARD P WHITLATCH GLORIA TERRILL ROSE R DAUGHERTY AND JAMES N GLENNA ANDERSON AND DALE ANDER WENDELL RINE AND CAROLYN RINE GARY E RINE	11/9/2007 3/18/2010 3/18/2010 3/18/2010 3/18/2010 3/18/2010	Marshall Marshall Marshall Marshall Marshall Marshall	WV WV WV WV WV	665 698 698 698 698 698 698	366 633 635 625 627 629
10*14101       10*14102       10*14103       10*14104       10*14105	RICHARD P WHITLATCH GLORIA TERRILL ROSE R DAUGHERTY AND JAMES N GLENNA ANDERSON AND DALE ANDER WENDELL RINE AND CAROLYN RINE	11/9/2007 3/18/2010 3/18/2010 3/18/2010 3/18/2010 3/18/2010	Marshall Marshall Marshall Marshall Marshall	WV WV WV WV	665 698 698 698 698	366 633 635 625 627

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10*14111	HAYHURST COMPANY, A FLORIDA PA	9/17/2010	Marshall	wv	720	236
10*14112	DONALD SHIELDS	3/10/2008	Marshall	wv	669	374
10*14113	CHESTNUT HOLDINGS INC	3/25/2014	Marshail	wv	827	566
10*14116	DONALD SHIELDS	3/10/2008	Marshali	wv	669	367
10*14117	ROBERT L SHIELDS AND WIFE	3/10/2008	Marshall	wv	669	360
10*14118	RITA A. RUSH	11/15/2013	Marshall	wv	813	450
10*14119	CHARLES W. SNYDER & JUDITH A.	11/15/2013	Marshail	wv	813	452
10*14120	CAROL D. HABERLE & ABRAM HABER	11/15/2013	Marshail	wv	813	448
10*14121 10*14122	JACK D. SNYDER & GRETA A. SNYD	11/15/2013	Marshail	wv	813	446
10*14122	TEESHA L HOLMES	6/1/2014	Marshall	wv	833	525
10*14124	BETSY G STOLTZFUS	6/1/2014 6/1/2014	Marshall Marshall	wv wv	836 836	96
10*14125	SHIBEN ESTATES INC	1/26/2010	Marshall	WV	695	94 460
10*14141	DAVID TAKACH AND WIFE DEBORAH	12/20/2010	Marshail	wv	720	233
10*14297	MARK E. YOHO AND DAVID E. YOHO	9/15/2006	Marshall	wv	655	547
10*14420	ELLIS V. RINE AND WANDA P. RIN	1/25/2011	Marshall	wv	725	141
10*14423	OLAN V RUTAN AND PATRICIA E	1/27/2011	Marshail	wv	727	1
10*14522	HENRY WILSON PLUNKERT JR	10/26/2011	Marshall	wv	749	532
10*14553	VERNIE RINE AND JODY K. RINE	3/22/2012	Marshali	wv	764	302
10*14568	LEROY ANDERSON & DONNA K ANDE	7/13/2012	Marshail	wv	772	69
10*14571	MATTHEW S ANDERSON AND BRENDA	7/1/2014	Marshail	wv	840	165
10*14579	ERNIE L ANDERSON AND TAMMY LA	1/9/2009	Marshali	wv	681	507
10*14580	ERNIE L ANDERSON AND TAMMY LA	1/20/2009	Marshali	wv	681	515
10*14612	HAYHURST COMPANY	3/29/2010	Marshall	wv	708	107
10*14613	CHESTNUT HOLDINGS INC	3/25/2014	Marshail	wv	827	556
10*14619	SHIRLEY R MILLER	6/10/2010	Marshall	w	715	414

BOOK 0 9 (	38 PAGE 0296					
10*14620	ANITA R MILLER	6/10/2010	Marshall	wv	715	416
10*14621	WILLIAM DALE AND NOREEN G MILL	6/10/2010	Marshall	wv	715	415

BOOK 0 9 8 8 PAGE 0 2 9 7 10\*14622 KELLY D MILLER 6/29/2010 Marshail wv 713 606 . . 6/29/2010 wv 717 149 10\*14623 DUANE D MILLER Marshall .

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10*14624	DOUGLAS E MILLER	7/6/2010	Marshall	w	725	559
10*14625	JACQUELYN J JOHNSON	8/4/2010	Marshall	wv	715	616

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10*14626	STEVEN POND	<b>8/13/2010</b>	Marshall	wv	715	622
10*14627	BRIAN AND LENA POND	<b>7/28/2010</b>	Marshall	wv	717	51

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10*14 <del>6</del> 28	- TEXYN L AND GEORGIA A MILLER	7/22/2010	Marshall	wv	715	514
10*14629	GERALD R AND LEE A MILLER	7/22/2010	Marshall	wv	717	1

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10*14630	BARBARA K BURLEY	7/22/2010	Marshail		716	637
10*14631	LISA ANN MILLER	8/13/2010	Marshall	wv	715	520
10 <b>*</b> 14632	DELORES J. MYERS	<b>8/2</b> 1/2010	Marshall	wv	716	643

	719 318	
10*14633 MARIA T. FLORES 7/22/2010 Marshall WV		3
10°14634 RUSSELL BLAKE & MARY BLAKE 7/9/2012 Marshall WV	773 568	
10*14635 COMMERCIAL OPTICAL MANUFACTURING INC 4/18/2012 Marshall WV	775 21	
10*14636 WANDA RIDING 4/5/2013 Marshali WV	794 503	-
10*14637 KIMBERLY S. DENNY 4/4/2013 Marshall WV	794 511	
10*14638 HUGH YOHO 4/4/2013 Marshall WV	794 478	-
10*14639 GARY PARSONS 4/4/2013 Marshall WV	794 521	
10*14640 SHERRI 5NYDER 5/13/2013 Marshall WV	799 545	;
10*14641 LORA LANGLEY 6/6/2013 Marshall WV	800 621	
10*14642 MARY B. FERRIS BY REBECCA R. F 7/27/2013 Marshall WV	808 457	,
10*14643 MARTHA RENEE ROBINSON 5/3/2013 Marshall WV	809 541	
10*14644 CHERYL HILL 9/25/2013 Marshall WV 1	809 517	,

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10 <b>*1464</b> 5	RANDY BERISFORD	9/5/2013	Marshall	wv	810	328
10*14646	PENNY ELAINE MENENDEZ	3/12/2014	Marshali	wv	822	266
10*14647	JAMES W ROBINSON IN	7/3/2014	Marshall	wv	836	102
10*14548	LORI ANN ROBINSON	7/3/2014	Marshail	w	836	104
10*14649	DONALD GARY GROVES II	7/18/2014	Marshali	wv	842	382
10*14650	TIMOTHY DWIGHT GROVES	9/8/2014	Marshall	wv	842	384
10*14651	DAVID V CALDWELL	7/3/2014	Marshali	w	842	386
10*14652	CANDICE GUTIERREZ	<sup>°</sup> 9/26/2013	Marshall	wv	842	388
10*14653	KRISTIN DOUGLAS	9/4/2014	Marshali	wv	.842	390
10*14654	KATHY JO RUNYON AND ROBERT PAT	2/11/2015	Marshall	w	854	607
10*14655	RONALD R JOHNSON	3/17/2011	Marshali	w	737	483
10*14688	DEBBIE RICHMOND	11/30/2012	Marshall	wv	7 <b>8</b> 6	398
10*14690	DANA HAMBEL	1/10/2013	Marshall	<b>wv</b> .	789	289
10*14692	BARBARA ANN DEEM	8/21/2013	Marshall	wv	804	247
10*14693	CHARLES DOWNS	8/30/2013	Marshall	wv	809	501
10*14 <del>69</del> 4	MARY FUNK	2/5/2014	Marshail	wv	821	36
10*14695	KATHY MITCHELL	2/6/2014	Marshall	*	822	258
10*14596	MCKENZIE ANN ADAMS	2/6/2014	Marshail	wv	827	224
10*14697	ANGELA ADAMS WILHITE	1/23/2014	Marshall	wv	839	533
10*14698	JASON ADAMS	9/5/2014	Marshall	wv	842	372

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10*14699	CNX GAS COMPANY LLC AND NOBLE	6/11/2014	Marshail	wv	833	514
10*14701	ROSEITA THORNTON	11/19/2015	Marshall	wv	885	600
10*14702	BOUNTY MINERALS LLC	4/2/2010	Marshall	wv	708	71
10*14778	RALPH RANDY HOYT	4/4/2013	Marshali	wv	794	507
10*14892	DEBORAH BLOUGH	10/1/2013	Marshail	wv	808	489
10*14893	ROBERT CRAIG MONTGOMERY	10/1/2013	Mərshail	wv	808	487
10*14894	MARILYN JEAN NOEL	9 <b>/</b> 27/2013	Marshal]	w	808	485
10 <b>*1489</b> 5	DENISE ANN GALE	10/23/2013	Marshall	wv	815	242
10 <b>*148</b> 96	DEBRA JANE GALE	10/23/2013	Marshall	w	818	566

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10*14898	SHERLEY RAY STOWE	11/19/2013	Marshail	w	813	444
10*14899	SANDRA J HARMON AND WALTER D HARMON	11/19/2013	Marshali		813	442

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10*14900	STANLEY EUGENE STOWE	11/19/2013	Marshall	wv	813	440
10*14901	MARGARET CLICKNER	12/5/2013	Marshall	wv	815	244

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10*14902	BENNY MILLER	7/10/2014	Marshall	wv	836	98
10*14903	SUE PRUITT	7/10/2014	Marshall	wv	836	100

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10*14904	LEROY MILLER	10/21/2014	Marshali	*	845	398
10*14905	JAMES K MILLER	3/5/2015	Marshall	wv	854	610

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			RUUN D:	000	MBEO 3	ך נין
10*14906	MARY LOU MILLER-HORTON	3/5/2015	Marshall	wv	. 862	417
10*14911	FORREST MILLER	2/4/2014	Marshall	wv	819	316
10*14914	CHESTNUT HOLDINGS, INC.	3/25/2014	Marshali	wv	827	548
10*14915	CHESTNUT HOLDINGS, INC.	3/25/2014	Marshəll	wv	827	552
10*14918	CHESTNUT HOLDINGS INC	7/1/2014	Marshall	wv	836	115
10*14919	CHESTNUT HOLDINGS INC	7/1/2014	Marshall	wv	836	117
10*14920	CHESTNUT HOLDINGS INC	7/1/2014	Marshall	WV	835	119
10*14925	MOUNTAIN TOP PRODUCTIONS LLC	3/27/2014	Marshall	wv	840	444
10*14928	JOSEPH D PARRIOTT AND NELLIE B	3/29/2007	Marshall	wv	660	517
10*14938 10*14941	CHARLES F HAYNES AND DIANA L H HILDA DELORIS BAXTER	7/30/2010 7/12/2012	Marshall Marshail	wv wv	711 775	306 53
10*14942	AARON PAUL HOLDREN	9/23/2010	Marshail	wv	720	132
10*14942 10*14945	LEROY ANDERSON AND DONNA K AND	2/17/2011	Marshall	wv	720	433
10*16609	C PATRICIA WOBIG	10/3/2016	Marshall	wv	916	118
10*16610	RICHARD B SMITH SR AND EVELYN MARIE SMITH	10/3/2016	Marshall	wv	916	120
10*16735	ROBERT L SHIELDS AND REBECCA A SHIELDS	1/25/2017	Marshall	wv	942	27
10*16873	LUCILLE R YOUNG	1/25/2017	Marshali	wv	917	93

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10*16875	CHRISTOPHER M EARICH AND BREA D EARICH	2/17/2017	Marshall	wv	917	99
10*16877	RENEE E CAIN AND GERALD D CAIN JR	2/18/2017	Marshall	wv	917	89
10*16878	DIANE L GOODE	2/18/2017	Marshall	wv	917	91
10*16908	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshali	wv	910	51
10*16913	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshall	wv	910	57
10*16914	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshall	wv	910	54
10*16918	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshall	wv	910	60
10*16940	PATRICIA A RICHMOND	2/28/2017	Marshall	wv	915	127
10*16994	MARTHA M RUTAN	2/22/2017	Marshall	wv	942	31
10*17329	JOHN P ICARD AND REVA J ICARD	1/3/2017	Marshall	wv	943	524
10*17454	MARGARET A BONNETT	1/12/2017	Marshall	wv	940	431
10*17492	DIANA L WELLMAN	1/14/2017	Marshall	wv	940	434
10*17493	DENNIS D CALDWELL AND APRIL N CALDWELL	1/21/2017	Marshali	wv	942	409
10 <b>*</b> 17512	BONNIE LOU POSTLEWAIT	2/20/2017	Marshail	wv	917	68
10*17530	WOODROW N WARD AND HILDA A WARD	2/7/2017	Marshall	wv	916	208

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10*17547	JAMES CONTRERAS AND CATHERINE CONTRERAS	2/15/2017	Marshali	wv	942	400
10*17548	RICHARD ARTHUR VAN GROL AND JEANNE MARIE VAN GROL	2/23/2017	Marshali	wv	942	398
10*17600	KENNETH ALLEN AND CARLA JO ALLEN	3/6/2017	Marshall	wv	916	129
10*17627		3/17/2017	Marshali	WV	917	62
10*17635	SARAH K SCHNEIDER AND DANIEL K SCHEIDER	3/13/2017	Marshali	wv	942	414
10*17643	DONALD R SLAUGHTER AND LOLA SLAUGHTER	3/11/2017	Marshall	wv	940	445

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10*17718	MARY ELLEN & THOMAS C DAVIS	3/16/2017	Marshall	wv	TBD	TBD	¥
10*17812	POTOMAC MINERAL GROUP LLC	4/3/2017	Marshall	wv	940	437	
10*17826	ALLDALE MINERALS II LP	4/7/2017	Marshall	wv	940	439	
10*17916	MARY E BISHOP	4/17/2017	Marshall	w	927	167	

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10*179 <del>6</del> 8	IDA RUTAN	3/9/2017	Marshal!	wv	958	402		
10*18045	KLOVA ANN MORRIS	4/25/2017	Marshall	wv	927	114	1	
10*18046	BRIAN A & CHARLOTTIE MULL	4/27/2017	Marshall	wv	TBD	TBD	×	
10*18051	WILLIAM R LEVASSEUR JR	3/24/2017	Marshall	wv	919	257	1°	
10*18054	TOM KROL AND DAWN E KROL	3/24/2017	Marshall	wv	923	434		
10*18068	CHRISTINA BOARDWINE AND BOBBY W BOARDWINE	3/24/2017	Marshali	wv	919	247	1	
10*18121	LAWRENCE EUGENE ANDERSON AND NICOLE M ANDERSON	5/5/2017	Marshall	wv	927	68	]	
10*18124	DAVID E YOHO	4/26/2017	Marshall	wv	927	70	[	
10*18126	BARBARA ANN ADKINS JOHNSON	5/12/2017	Marshall	wv	929	556		
10*18174	THE ESTATE OF ROY JOSEPH LEACH	5/18/2017	Marshail	wv	927	647		
10*18202	TERRANCE V POWDERLY SR	5/1/2017	Marshall	wv	929	85		

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10*18209	CORRINE E VERNA & JONATHAN C VERNA	5/9/2017	Marshall	wv	929	82
10*18210	DAVID F POWEDERLY JR AND NANCY A POWDERLY	5/11/2017	Marshall	*	929	87

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10*18211	REBECCA LYNN KIER AND ERIC JAMES KIER	5/19/2017	Marshail	\$	929	90
10*18212	THOMAS C DAVIS AND MARY ELLEN DAVIS	4/26/2017	Marshall	wv	929	92

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10*18213	THOMAS A POWDERLY	5/11/2017	Marshal)	wv	929	94
10*18214	ANNE M AND JOHN LEACH	5/10/2017	Marshali	wv	929	96

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10*18215	MARGARET J WHITFORD AND LANCE W WHITFORD	5/5/2017	Marshəl]	wv	929	103
	JODY LANE ANDERSON AND MICHELE MARIE				 	
10*18217	ANDERSON	5/2/2017	Marshall	wv	929	101
10*18218	ERIN E SCHOLL	5/11/2017	Marshali	w	929	106

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BOOK O	988 MGF0318						1
10*18270	GERALD L BISHOP III	5/26/2017	Marshall	wv	943	10	
10*18280	DEBRA L RICHEY AND JAMES F RICHEY SR	5/12/2017	Marshail	wv	929	108	
. 10*18335	MEGAN HAGERTY	6/2/2017	Marshali	••• (	TBD	TBD	*
10*18339	RESOURCE MINERALS HEADWATER ! LP	6/9/2017	Marshal)	wv	940	448	
10*18373	SARAH K SCHNEIDER AND DANIEL K SCHEIDER	6/2/2017	Marshall	wv	931	391	
10*18375	DENNIS D CALDWELL AND APRIL N CALDWELL	5/26/2017	Marshall	wv	931	394	
10*18396	LOUIS AULENBAUCHER	6/22/2017	Marshall	wv	932	468	]
10*18403	ANGELA B CRAWFORD AND DANA ALAN CRAWFORD	6/27/2017	Marshall	wv	932	536	]
10*18454	IMALEE D LLOYD AND GARY R LLOYD	6/29/2017	Marshall	wv	933	186	1
10*18455 10*18526	DEBRA HARTLEY AND RICHARD HARTLEY	6/28/2017 · 7/7/2017	Marshall Marshall	wv	933 933	183 591	
10*18549	BARBARA ANN ADKINS JOHNSON	7/7/2017	Marshall	wv	935	74	1
10*18571	JUDITH R GADE AND WILLIAM S GADE	6/29/2017	Marshall	wv	935	72	]

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10*18597	MARK ALLEN LENENBERG	7/5/2017	Marshall	wv	934	638		
10*18636	CHERYL STEFFEN AND GREGORY STEFFEN	7/18/2017	Marshall	wv	936	240		
10*18637	THOMAS RICHMOND YOUNG ANITA A YOUNG	7/14/2017	Marshall	wv	936	244		
10*18538	TAMMY L MITCHELL AND ADAM J MITCHELL	7/24/2017	Marshall	wv	936	248		
10*18566	LESLIE A RUBCICH	7/13/2017	Marshall	wv	936	83		
10*18672	CARLA D RAKOSKIE	7/14/2017	Marshall	wv	936	87		
10*18680	SAMANTHA A RADER	7/19/2017	Marshali	wv	936	137		
10*18689	THE ESTATE OF ROY JOSEPH LEACH	7/19/2017	Marshail	wv	936	141		
10*18722	HIRAMS ESTATE FAMILY LIMITED LIABILITY LIMITED PARTNERSHIP	7/30/2017	Marshall	wv	938	523		
10*18724	TRACY M KESTERSON	7/31/2017	Marshall	wv	938	521		
10*18730	TOM KROL AND DAWN E KROL	6/7/2017	Marshall	wv	935	129		
10*18731	CHRISTINA BOARDWINE AND BOBBY W BOARDWINE	6/7/2017	Marshail	wv	935	124		
10*18737	PHYLLIS R CLARK AND PAUL R CLARK	7/28/2017	Marshall	wv	938	259		
10*18738	DAVID W. GOULDSBERRY AND DARLENE M. GOULDSBERRY	7/28/2017	Marshall	wv	938	253		
10*18739	CHERYL A SEARS AND JOHN SEARS	7/28/2017	Marshall	wv	938	251		
10*18740	JOHN F CUNNINGHAM AND BERNEICE K CUNNINGHAM	7/29/2017	Marshall	wv	938	249		
10*18741	RONALD GOULDSBERRY AND NANCY GOULDSBERRY	7/28/2017	Marshali	wv	938	255		
10*18742	HARLEY E GOULDSBERRY	7/28/2017	Marshall	wv	938	257		
10*18743	DONALD K KIDD AND CAROLYN E KIDD	7/29/2017	Marshall	wv	938	263		
10*18744	JAMES H CUNNINGHAM AND CARLENE K CUNNINGHAM	7/27/2017	Marshall	wv	938	265		
10*18745	MARTA J RUBCICH	7/25/2017	Marshall	wv	938	454		
10*18760	DAVID HAMBEL	7/25/2017	Marshall	wv	938	452		
10*18796	DWG OIL & GAS ACQUISITIONS LLC	7/28/2017	Marshall	wv	938	476		
10*18804	WILLIAM R LEVASSEUR JR	6/9/2017	Marshall	wv	935	78		

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10*18806 10*18812-	E SHIELA PAVLOVICH PATRICIA L KUŁAVIK AND JOHN KULAVIK	5/2/2017 7/31/2017 .	Marshali	wv	929	576
10*18813	RICKY JOE KIDD AND SUSAN KIDD	7/29/2017	Marshail	WV	938	21
10*18827	ERIN E SCHOLL	7/27/2017	Marshail	wv	937	626
10*18835	REBECCA LYNN KIER AND ERIC JAMES KIER	7/28/2017	Marshali	wv	<b>9</b> 37	405
10*18836	JOHN W MIDCAP AND ELDA FAYE MIDCAP	7/28/2017	Marshall	wv	941	450
10*18945	DAVID E GRAY	8/12/2017	Marshall	wv	939	386
10*18946	OWEN MICHAEL BARR AND TARA C BARR	8/12/2017	Marshall	wv	939	388
10*18968	E SHIELA PAVLOVICH	8/17/2017	Marshali	WV	940	291
10*18969	JEANNE MARIE VAN GROL AND RICHARD ARTHUR VAN GROL	8/16/2017	Marshall	wv	941	289
10*18970	DONALD E BERISFORD	8/8/2017	Marshali	wv	941	287
10*18971	WONETTA V JOHNSON & NORMAN G JOHNSON	8/17/2017	Marshall	wv	941	285
10*18972	MARGARET CLICKNER	8/14/2017	Marshall	wv	941	281
10*18998	STEPHEN M CUNNINGHAM	8/18/2017	Marshall	wv	940	353
10*18999						
		8/17/2017	Marshall	wv	940	351
10*19009		12/28/2007	Marshall	wv	665	554
10*19012	RAYMOND K MILLER MICHELE A MILLER	1/8/2013	Marshall	wv	TBD	TBD
10*19017 10*19021	PAUL A RINE AND DEBRA A RINE MARCELLUS TX MINERAL PARTNERS LTD	4/3/2013 6/1/2013	Marshali Marshali	wv wv	TBD 800	TBD 216
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10*19030 10*19034	KATHLEEN R CUSTEAD JMK IRREVOCABLE TRUST	9/4/2013 10/20/2013	Marshall Marshall	wv wv	806 813	39 145
10*19035	PURPLEBURGH VENTURES, LLC	10/20/2013	Marshail	wv	813	138
10*19036	HAROLD W HOWARD JR	10/23/2013	Marshali	wv	813	91
10*19037	NEVELLE SEELEY	10/23/2013	Marshali	wv	813	116
10*19038	PHYLLIS L PARSONS	10/23/2013	Marshall	wv	814	379
10*19039	RALPH B RUSSELL MARY ANN RUSSELL	10/24/2013	Marshall	wv	813	106
10*19040	RUTHANNE RUSSELL TOPPING					
		10/24/2013	Marshall	WV WV	813	79
10*19041		10/25/2013	Marshall	WV	813	101
10*19043	JACK R BERISFORD LINDA JO BERISFORD	10/30/2013	Marshall	wv	813	96
10*19045	JOHN W MURDOCK HELEN CAROLINA MURDOCK	10/30/2013	Marshall	WV	B14	327
10*19045	CAROL J WEINSTEIN	10/31/2013	Marshall	wv	813	33
10*19047	DEBORAH CROSTEN-PURCELL	11/4/2013	Marshali	WV	813	28
10*19048	JANET FRANKHAUSER WILSON	11/4/2013	Marshall	wv	817	627
10*19049 10*19050	RUTH ANN FERRIS	11/5/2013 11/5/2013	Marshail Marshail	wv wv	814 814	313 473
10*19054	MARSHA BERISFORD	11/13/2013	Marshall	wv	813	630
10*19055	DONNA J GORDYAN	11/18/2013	Marshall	wv	814	468

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	LIE R KEYS	11/20/2013	Marshall	wv	814	463
	HAEL FOREMAN	11/21/2013	Marshall	wv	817	640
10*19059 MARY VA	NESSA GILSON	11/26/2013	Marshall	wv	815	464
	IA JORDAN	12/2/2013	Marshall	wv	815	135
	OLLSCHLEGER	12/2/2013	Marshall	wv	817	615
	PRINGWATER	12/18/2013	Marshall	wv	818	120
	L FRANKHAUSER	1/7/2014	Marshall	wv	818	29
	IY M BROWN	1/10/2014	Marshail	wv	818	39
	A L RUPERT	1/14/2014	Marshall	wv	820	229
	FRANKHAUSER	1/24/2014	Marshall	wv	822	446
	A L CLAPPER	2/3/2014	Marshall	wv	820	191
	FRANKHAUSER	2/6/2014	Marshall	wv	822	441
10*19076	TRUST SUSAN LIVINGSTON, RUSTEE	2/19/2014	Marshail	wv	826	495
10*19077 DAVID RUBCICH L	ESLIE A RUBCICH ET AL	2/26/2014	Marshall	wv	681	512
10*19080 REVOCABLE TRUST AG	REEMENT CHARLES S HAMEL	3/25/2014	Marshall	wv	835	266
10*19081 RUDINA A	FRANKHAUSER	4/12/2014	Marshali	wv	831	457
10*1909B DAVID H ARRICK	AND LELAH M ARRICK	6/19/2013	Marshall	wv	800	505
10*19107 ALBERT	F KAZEMKA	9/4/2014	Marshall	wv	853	73
10*19109	IARY ALICE MILLER, HUSBAND	10/8/2014	Marshali	wv	863	275
10*19121 JOE PAUL WELLMAN MA	RGARET ANN BONNETT ET AL	11/10/2011	Marshall	wv	773	518
LU*19126 F	ANITA L. CORLEY, HUSBAND ID WIFE	12/8/2014	Marshall	wv	859	44
LO*19127 WALTER C RINE	AND CHERYL A RINE	12/8/2014	Marshail	wv	956	49
10*19128 RUDOLPH	G FANKHAUSER	12/16/2014	Marshail	wv	860	258
	RENCE SHUTLER	12/19/2011	Marshail	wv	761	366
0*19130 FRAN	CES O HALL	1/4/2012	Marshail	wv	763	641
10*19132 KLOVA	ANN MORRIS	1/19/2012	Marshali	wv	764	28
.0*19134 REVA	IUNE ICARD	1/21/2012	Marshali	wv	TBD	TBD
10*19136 WILLIA	M L LITMAN	2/21/2012	Marshali	wv	772	90
	DEAN LITMAN	3/13/2012	Marshall	wv	769	52
10°19139 HIRAN	I V MOORE	3/14/2010	Marshall	wv	699	53
IO*19141 ROBERT W SPENCER	JR NELLIE MARIE SPENCER	5/1/2010	Marshail	wv	706	468
	I Y MILLER	4/5/2012	Marshall	wv	772	518
19146 RAY E MINO	R CATHY L MINOR	4/19/2010	Marshall	wv	706	293
0*19150	CH & SHARON RIGGENBACH, ID AND WIFE	4/22/2010	Marshall	wv	706	301
	ER MICHELE A MILLER	4/23/2010	Marshall	wv	702	423
0*19152 BETTY	J PARRIOTT	4/24/2012	Marshall	wv	772	192
10*19153 JACK S	HUGGINS JR	4/27/2010	Marshall	wv	700	396
IO*19154 ROBERT H F	ISH PATSY C FISH	4/29/2010	Marshall	wv	706	631
0*19158 LEONARD PARSO	NS CONNIE R PARSONS	5/24/2010	Marshall	wv	705	125
10*19159 FRANKL	IN C FRANCIS	6/9/2010	Marshall	wv	709	41
IO*19164 KATHERIN	E A STALNAKER	7/15/2014	Marshall	wv	839	486
10*19165 ViCki L	YNN WOOD	7/17/2012	Marshall	wv	775	73
10*19167 JAY A CONNER P	ATTY LOUISE CONNER	7/20/2010	Marshall	wv	724	156
0*19168 PAUL WHITT	AND SANDY WHITT	7/20/2010	Marshall	wv	715	565
0*19169 DAN	IEL L RINE	7/21/2014	Marshall	wv	839	260
				wv	706	583
	N M SMITH	7/24/2010	Marshall	VV V	700	
0*19170 SUSAI		7/24/2010 8/3/2010	Marshall Marshall	WV	706	581
0*19170 SUSAI 0*19172 SEAN F MOO	N M SMITH					

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10 <b>*</b> 19176	. MAUNA MAXINE BEYSER	9/8/2010	Marshall	wv	710	602
10*19177	NINA L KOVACS	9/29/2010	Marshall	wv	TBD	TBD
10*19178	JOSEPH HAUGHT	9/9/2010	Marshail	wv	710	69
10*19179	KEITH HAUGHT BEVERLY HAUGHT	9/9/2010	Marshall	wv	710	587
10*19180	STEVEN HAUGHT	9/9/2010	Marshall	wv	710	67
10*19184	RANDI L PECK	9/22/2010	Marshall	w	716	26
10*19185	HARRIETT LODUTH FOLEY	<b>9/22/2010</b>	Marshall	w	710	598
10*19186	JOEL GLOVER	9/22/2010	Marshall	w	710	600
10*19187	DAVID E GRAY	9/22/2010	Marshall	wv	710	610
10*19189	SHERRY ANN MCPHERON	9/28/2010	Marshall	w	710	605

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10*19190	SALLY LEE RIVERA	9/28/2010	Marshail	wv	710	590
10*19191	ŞHARLA BETH WEAVER	9/28/2010	Marshall	wv	710	608
10*19192	JAMES E YOHO	9/28/2010	Marshall	wv	714	129
10*19193	LARRY A GUMP	9/29/2010	Marshall	wv	717	488
10*19201	DANIEL K YOHO	10/13/2010	Marshall	wv	714	125
10*19202	DEBORAH L WOOLEY	10/18/2010	Marshall	wv	714	131
10*19203	CAROL M YOHO	10/18/2010	Marshall	wv	713	205

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10*19204	DAYNA MARLENE YOHO	10/18/2010	Marshall	w	714	127	
10*19205	JEFFREY C YOHO	10/18/2010	Marshall	wv	713	203	
10*19207	MARY VOLTZ	10/24/2012	Marshall	wv	786	296	
10*19211	PATRICIA F PARRIOTT	11/8/2012	Marshall	wv	TBD	TBD	×
10*19213	KIMBERLY LAKE	11/11/2012	Marshall	wv	784	280	
10*19217	JAY DEE DALLISON EDDIE D DALLISON	12/15/2008	Marshall	wv	676	463	
10*19219	SCOTT E JACKSON	1/12/2011	Marshail	wv	731	102	1
10*19221	ROBERT H ARRICK REBECCA L ARRICK	2/19/2011	Marshall	wv	737	240	
10*19223	DONALD T MILLER	3/16/2011	Marshall	wv	737	284	
10*19224	AMYSUE G BAHL	3/31/2011	Marshall	wv	731	166	
10*19225	LOIS BURNS	3/31/2011	Marshall	wv	731	174	
10*19226	THOMAS RAY GATTS	3/31/2011	Marshall	wv	731	162	
10*19227	CONNIE KRESS KNAPP	3/31/2011	Marshall	WV	734	451	
10*19228 10*19229	CAROLE J LAMBERT PATRICIA A LAMBERT	3/31/2011 3/31/2011	Marshall Marshall	wv wv		225 158	
10*19230	MARIANN VIRGINIA MUNN	3/31/2011	Marshall	WV	731	160	
10*19231	DALE F RADCLIFF	4/5/2011	Marshall	wv	734	462	
10*19232	SANDRA J HARMON AND WALTER D HARMON	4/7/2011	Marshall	wv	731	149	
10*19233	SHERLEY R STOWE	4/7/2011	Marshall	wv	731	170	
10*19234	STANLEY EUGENE STOWE	4/7/2011	Marshall		732	631	
10*19235 10*19236	ROSE EDGE TAMMIE S JACKSON	4/11/2011	Marshail	wv wv	731	164	ł
10*19236	MARION L JACKSON	5/2/2011 5/10/2011	Marshali Marshall	wv wv	749 735	213 427	
10*19238	ANITA RAE MILLER	5/12/2011	Marshail	wv	742	66	1
10*19239	WILLIAM DALE MILLER	5/19/2011	Marshall	wv	TBD	TBD	
10*19240	KELLY D MILLER	5/20/2011	Marshall	wv	753	5 <b>9</b> 5	
10*19241	BARBARA K BURLEY	5/24/2011	Marshall	WV	753	631	
10*19242 10*19244	TEXYN L MILLER AND GEORGIA A MILLER	5/27/2011	Marshall	WV WV	751	228	
10*19244	JERRY L BLOOD GERALD R MILLER	6/3/2011 6/16/2011	Marshall Marshall	wv wv	736 743	177 423	
10*19246	SHIRLEY R MILLER	6/23/2011	Marshall	wv	745	433	
10*19247	JUANITA MCVEY	9/8/2011	Marshail	wv	TBD	TBD	×
10*19248		9/4/2014	Marshall	WV	TBD	TBD	*
10*19249	HERBERT M AULENBACHER	10/3/2014	Marshall	WV	914	551	
10*19251	RAE SUZETTE BAKER	10/11/2011	Marshali	wv	748	315	

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10*19252	JOHN WILSON	10/11/2011	Marshail	wv	749	522	
10*19254	JOANNE LABRY	1/23/2014	Marshall	wv	820	320	-
10*19255	ROBERT W. RIGGENBACH & SHARON RIGGENBACH,	5/1/2012	Marshall	wv	772	1	4
10*19293	HUSBAND AND WIFE JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	10/18/2006	Marshall		TBD	450 TBD	
10*19294	MICHAEL R. BRYAN BRENDA K. BRYAN	12/5/2007	Marshali	<b>wv</b> .	TBD	TBD	Ν
10 <b>*19295</b>	KEVIN J. KELLY PAMELA MARXEN-KELLY	3/16/2015	Marshali	wv	TBD	TBD	
10*19296	MARISSA C MARXEN	2/27/2010	Marshall	wv	TBD	TBD	\
10*19297	PHILIP LEONARD MARXEN	2/27/2010	Marshall	wv	TBD	TBD	
10*19298	BETTY J MARXEN SLEZAK	2/10/2014	Marshall	wv	TBD	твр	
10*19299	ANNETTE CONWAY MARXEN	12/3/2013	Marshall	wv	TBD	TBD	
10*19300	DEBORAH F HAGEMAN HUPPERT	11/30/2013	Marshall	wv	TBD	TBD	1
10*19301	SANDRA HAGEMAN KANGAS	12/2/2013	Marshall	wv	TBD	TBD	
10*19302	JEFFREY C MARXEN SAMANTHA L MARXEN	12/11/2013	Marshail	wv	TBD	TBD	
10*19303	THOMAS O MARXEN	11/19/2013	Marshall	wv	TBD	TBD	
10*19304	DEAN L. RINE, JR. PAMELA F. RINE	11/13/2013	Marshali	wv	твр	TBD	
10*19305	KAREN MARXEN SONDROL	11/12/2013	Marshall	wv	TBD	TBD	
10*19305	RICHARD L. TATE MARCELINE RINE TATE	11/15/2013	Marshall	wv	TBD	TBD	
10*19307	MARY SUE RINE-WALTER	11/19/2013	Marshail	wv	TBD	TBD	
10*19308	WILLIAM WEBER	11/18/2013	Marshail	wv	TBD	TBD	/
10*19336	BONNIE JEAN DAWSON	10/16/2007	Marshali	wv	665	397	
10*19337 10*19338		7/18/2007	Marshall	wv	663	498	۲,
10*19340	JAMES M. RUCKMAN KIMBERLY L RUCKMAN DONNA VIVIAN YOHO	12/11/2007 12/3/2007	Marshall Marshall	wv	TBD 665	TBD 407	*
10*19350	JANE A TOLER FOREMAN	8/2/2017	Marshall	wv	939	329	
10*19353	KATHLEEN TOLER CLEMENTS AND DAN CLEMENTS	8/17/2017	Marshall	wv	939	322	
10*19374	BARBARA ANN ADKINS JOHNSON	8/10/2017	Marshall	wv	938	387	
10*19388	MARY LOU CUNNINGHAM	8/18/2017	Marshal!	wv	940	355	
10*19420	REBECCA L RICHMOND	8/4/2017	Marshali	wv	940	264	
10*19467	ROBERT R FISHER AND AUDREY L IRVIN	8/23/2017	Marshall	wv	942	592	
10*19472	DAVID RUBCICH AND CYNTHIA Y RUBCICH	6/29/2017	Marshall	wv	933	83	
10*19473	DANIEL JACOB ALLMAN	8/23/2017	Marshall	wv	942	567	
10*19500	JAMES CONTRERAS AND CATHERINE CONTRERAS	8/1/2017	Marshall	wv	942	608	

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10*19502	SUSAN BLANCHE BEYSER	8/30/2017	Marshall	wv	942	6
10*19503	FRANK DALE BERISFORD AND KATHLEEN BERISFORD	8/29/2017	Marshali	wv	942	6
10*19546	SANDRA R KEECH	8/24/2017	Marshail	wv	942	
10*19551	KAREN A JOSEPH	8/22/2017	Marshall	wv	937	3
10*19552	. LISA ANN JACKSON	8/22/2017	Marshail	wv	937	3
10*19553	PAUL D LAUTAR AND JUDY B LAUTAR	8/23/2017	Marshail	wv	937	3
10*19554	LESLIE KAYE HARCLERODE	8/25/2017	Marshall	wv	945	2
10 <b>*</b> 19572	DOUGLAS R BISHOP	8/22/2017	Marshall	w	943	1
10*19608 10*19610	CLIFFORD VAN SCYOC AND DENISE VAN SCYOC BRENT BERISFORD AND JEAN MARIE COSTA	9/7/2017 9/1/2017	Marshail Marshail	wv	953 944	2
10*19642	NOEL A PARKS	7/29/2017	Marshall	wv	944	
10*19673	CHESTNUT HOLDINGS INC	9/18/2017	Marshall	wv	836	1
10*19751	THOMAS L ROBINSON	9/14/2017	Marshall	wv	944	4
10*19752	PATRICIA ANKROM	9/14/2017	Marshall	wv	944	4
10*19787	JOSEPH N POWDERLY III	7/24/2017	Mərshall	wv	935	4
10*19788	REX B FISHER AND DEBORAH FISHER	7/15/2017	Marshail	wv	948	29
10*19825	THOMAS A POWDERLY	9/12/2017	Marshall	wv	945	63
10*19826	TERRANCE V POWDERLY SR	9/16/2017	Marshall	wv	945	63
10*19827	CORINNE E VERNA AND JONATHAN C VERNA SR	9/21/2017	Marshall	wv	945	65
10*19828	ANNE M AND JOHN LEACH	9/20/2017	Marshall	wv	945	63
10*19829	MARGARET J WHITFORD AND LANCE W WHITFORD	9/6/2017	Marshali	wv	945	63
10*19830	DAVID POWDERLY AND NANCY A POWDERLY	9/19/2017	Marshall	wv	945	62
10*19841		9/25/2017	Marshall	wv	945	54 64
10*19842	JAMES E ROBINSON AND CAMILLA L ROBINSON	9/21/2017	Marshall	wv	945	64

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10*19851	PATRICK W JENNINGS AND SUSAN PACKER-JENNINGS	8/17/2017	Marshail	WV	946	24
10*19852	JEFFREY A AND SHANNON M JENNINGS	8/24/2017	Marshall	wv	946	22
10*19853	TIMOTHY 8 AND MICHELE P JENNINGS	8/28/2017	Marshali	wv	946	20
10*19854	CHRISTOPHER M JENNINGS	8/24/2017	Marshail	wv	946	18
10*19857	SUSAN H WALKER	9/28/2017	Marshail	wv	946	48
10*19893	WINIFRED G TURNER AND EDDIE G TURNER	10/2/2017	Marshali	wv	948	277
10*19916	RALPH M RICHMOND & WENDY L RICHMOND	9/26/2017	Marshail	wv	948	595
10*19945	JANE A TOLER FOREMAN	10/9/2017	Marshail	WV	949	356
10*19961	HERMAN KING AND KATHERINE KING	10/4/2017	Marshail	wv	947	587
10*19962	JAMES GILLARD AND SUSAN GILLARD	10/5/2017	Marshali	wv	947	575
10*19963	RODGER ELLINGSON AND JOAN ELLINGSON	10/2/2017	Marshali	WV	948	304
10*19975	CHARLES F STEWART	10/2/2017	Marshall	wv	948	270
10*21002	STANLEY EUGENE STOWE	10/19/2017	Marshali	wv	951	215
10*21005	WILLIAM DICKEY	10/17/2017	Mərshall	wv	951	625
10*21009	JOY DENEAN GARTMAN	9/28/2017	Marshall	WV	951	595
10*21014	JAMES P MCLAUGHLIN & ALICE W MCLAUGHLIN	9/26/2017	Marshail	wv	946	29
10*21015	ROBERT L MCLAUGHLIN	9/27/2017	Marshail	wv	946	339
10*21017	CATHERINE R KLUG PAUL FOX - POWER OF ATTORNEY	8/28/2017	Marshall	wv	938	299
10*21041	SHERY RITCHEA AND RANDEN D RITCHEA	<b>10/27/2017</b>	Marshali	wv	949	365
10*21042	REBECCA L ASPERY	10/8/2017	Marshall	wv	952	428
10*21043	BRENDA HOYLE	10/25/2017	Marshall	WV	951	598
10*21044		10/25/2017	Marshall	WV	951	600
10*21045	SANDRA J HARMON AND WALTER D HARMON	10/16/2017	Marshall	WV	951	217
10*21046		10/17/2017	Marshall	WV_	951	591
10*21047	RACHAEL D DONAHUE	10/16/2017	Marshall	WV	951	589
10*21048	MICHAEL P OLSON	10/11/2017	Marshall	WV	951	593
10*21133	MATTHEW V AND CINDY L CONNER	8/30/2017	Marshail	wv	951	602
10*21189	NATALJE GIBBS	8/15/2017	Marshali	wv	941	261

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10*21223	EUGENE C GRIEB AND SHIRLEY K GRIEB	11/13/2017	Marshall	wv	961	468
10*21224 10*21253	RICKEY LYNN CROSS & VICTORIA ROSE CROSS MARY ANN STURGILL	<u>9/7/2017</u> 11/7/2017	Marshall Marshall	wv	939 952	589 430
10*21267	JAMES E NICHOLAS AND BEVERLY D NICHOLAS	8/24/2017	Marshall	wv	943	513
10*21277	DALE E BERSIFORD	8/25/2017	Marshall	wv	939	259
10*21281 10*21330	HELEN BERISFORD STEWART KATHLEEN TOLER CLEMENTS AND DAN CLEMENTS	8/31/2017 11/16/2017	Marshail Marshail	wv wv	941 952	241 173
10*21414	CHARLES R STOCKTON AND BETTY M HUDSON	12/13/2017	Marshall	wv	959	310
10*21455	MELISSA MILLER GIBSON AND JAMES GIBSON	11/14/2017	Marshali	wv	953	308
10*21460	MAGGY D ASTON AND ROBERT H RICHARDS	11/15/2017	Marshail	wv	954	125
10 <b>*2146</b> 2	MAGGY D ASTON AND ROBERT H RICHARDS	11/15/2017	Marshall	w	954	128

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10*21453         MOLLY D ASTON & HOWARD PRIOR         13/13/2017         Marshall         WV         954         331           10*21453         MOLLY D ASTON & HOWARD PRIOR         13/13/2017         Marshall         WV         954         334           10*21463         MOLLY D ASTON & HOWARD PRIOR         13/13/2017         Marshall         WV         954         334           10*21463         MOLLY D ASTON & HOWARD PRIOR         13/13/2017         Marshall         WV         954         334           10*21468         JOHN A SWIERKOS         11/20/2017         Marshall         WV         953         337           10*21470         CHRIS STEWART AND MARY D STEWART         9/28/2017         Marshall         WV         957         232           10*21473         CHRIS STEWART AND MARY D STEWART         9/28/2017         Marshall         WV         957         232           10*21473         WOODROW N WARD AND HILDA A WARD         11/8/2017         Marshall         WV         957         124           10*21476         JANICE BERISFORD STEWART         8/31/2017         Marshall         WV         120         TED           10*21478         CHILDRENS HOME SOCIETY OF WEST VIRGINIA         1/9/2018         Marshall         WV         960	· · · · · · · · · · · · · · · · · · ·		·	<u> 1000 0.9 8 8</u>	PAGE O	329	I
10*21468       JOHN A SWIERKOS       11/20/2017       Marshall       WV       953       317         10*21470       CHRIS STEWART AND MARY D STEWART       9/29/2017       Marshall       WV       TBD       TBD         10*21473       CHRIS STEWART AND MARY D STEWART       9/29/2017       Marshall       WV       TBD       TBD         10*21473       MARY E BISHOP       12/8/2017       Marshall       WV       957       232         10*21475       WOODROW N WARD AND HILDA A WARD       11/8/2017       Marshall       WV       957       124         10*21476       JANICE BERISFORD STEWART       8/31/2017       Marshall       WV       TBD       TBD	10°21463	MOLLY D ASTON & HOWARD PRIOR	11/17/2017	Marshall	wv		131
10*21470CHRIS STEWART AND MARY D STEWART9/29/2017MarshallWVTBD10*21473MARY E BISHOP12/8/2017MarshallWV95723210*21475WOODROW N WARD AND HILDA A WARD11/8/2017MarshallWV95712410*21476JANICE BERISFORD STEWART8/31/2017MarshallWVTBDTBD10*21476JANICE BERISFORD STEWART8/31/2017MarshallWVTBDTBD	10*21465	MOLLY D ASTON & HOWARD PRIOR	11/17/2017	Marshall	wv	954	134
10*21473       MARY E BISHOP       12/8/2017       Marshall       WV       957       232         10*21475       WOODROW N WARD AND HILDA A WARD       11/8/2017       Marshall       WV       957       124         10*21475       JANICE BERISFORD STEWART       8/31/2017       Marshall       WV       957       124	10*21468	JOHN A SWIERKOS	11/20/2017	Marshall	wv	953	317
10*21475       WOODROW N WARD AND HILDA A WARD       11/8/2017       Marshail       WV       957       124         10*21476       JANICE BERISFORD STEWART       8/31/2017       Marshail       WV       TBD       TBD	10*21470	CHRIS STEWART AND MARY D STEWART	9/29/2017	Marshall	wv	TBD	TBD
10*21476     JANICE BERISFORD STEWART     8/31/2017     Marshail     WV     TBD     TBD	10*21473	MARY E BISHOP	12/8/2017	Marshall	wv	957	232
	10*21475	WOODROW N WARD AND HILDA A WARD	11/8/2017	Marshali	wv	957	124
10*21478 CHILDRENS HOME SOCIETY OF WEST VIRGINIA 1/9/2018 Marshall WV 960 173	10*21476	JANICE BERISFORD STEWART	8/31/2017	Marshail	wv	TBD	TBD
	10*21478		<b>1/9/2018</b>	Marshall	wv	960	173

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10*21504	PAULETA LINDA CHEATHAM AND CARL WOHLERS	9/28/2017	Marshall	wv	951	142	
10*21546	EDWIN C MILLER AND KIMBERLY ANN MILLER	10/14/2017	Marshall	wv	957	257	
10*21547	GARY A MILLER AND MARCELLE T MILLER	10/15/2017	Marshali	wv	952	370	
10*21548	JEANNE M MILLER	10/15/2017	Marshail	wv	952	386	
10*21587	ALYSIA JORDAN & TERRY M JORDAN	10/26/2017	Marshall	wv	TBD	TBD	*
10*21607	SHERLEY R STOWE & KAREN M STOWE	10/24/2017	Marshall	wv	959	474	
10*21608	BONNIE LOU POSTLEWAIT	12/11/2017	Marshali	wv	959	313	
10*21623	ROBERT R FISHER AND AUDREY L IRVIN	1/12/2018	Marshall	wv	TBD	TBD	۲ ۲
10*21638	THE MILDRED Y MILLS TRUST JULY 5TH 2007	9/26/2017	Marshall	wv	954	332	
10 <b>*</b> 21709	THOMAS YOUNG AND JANE CLAIRE YOUNG	1/5/2018	Marshall	wv	959	350	- - -
10 <b>*</b> 21710	PENELOPE A JONES	1/5/2018	Marshall	wv	959	355	

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10 <b>*</b> 21 <b>719</b>	ROBERT A MILLER	10/4/2017	Marshall	wv	952	389
10*21769	BETTY HAMILTON	12/26/2017	Marshali	wv	957	419
10*21770	SUSAN WINLAND AND PAUL MICHAEL WINLAND	12/26/2017	Marshall	wv_	957	421
10*21776	LINDA HAMILTON	12/26/2017	Marshall	wv	957	417
10*21823	ELLEN RUTH STERLING & JAMES ROGER DAVIS	1/15/2018	Marshali	wv	960	198
10*21835	KENNETH ALLEN AND CARLA JO ALLEN	12/26/2017	Marshail	wv	962	572
10*21903	WILLIAM R VOLTZ AND SHARON VOLTZ	1/23/2018	Marshall	wv	960	182
10*21904 10*21905	MARY S MAGERS AND WILLIAMS MAGERS DAVID F VOLTZ AND LINDA VOLTZ	1/15/2018	Marshall	WV	960	158
10*21906	MICHAEL P VOLTZ	1/11/2018 1/14/2018	Marshall Marshali	wv wv	961 960	444
10*21910	J THOMAS VOLTZ AND NANCY VOLTZ	1/23/2018	Marshall	wv	960	179
10*21917	ROBERT W RAHM AND BETHANY A RAHM	4/10/2014	Marshall	wv	827	142
10*21920	JOHN R MAUPIN	11/10/2017	Marshail	wv	952	630
10*21924	BEVERLY A MILLER	11/18/2017	Marshall	wv	953	533
10*21926	VIOLA JANE BREON AND JAMES RONALD BREON	11/18/2017	Marshali	wv	953	360

10*21920         THOM BEINMY MILLER         1/4/2018         Marshall         WW         950         177           10*21920         JAMES A GRENOBLE AND MARY JANE GRENOBLE         1/1/19/2017         Marshall         WV         953         263           10*21930         JAMES A GRENOBLE AND MARY JANE GRENOBLE         1/1/19/2018         Marshall         WV         950         1.67           10*21930         JAMES A GRENOBLE AND DOUGLAS MEROM         1/12/2018         Marshall         WV         950         1.67           10*21934         BESMETTA D BROWN AND DOUGLAS MEROM         1/12/2018         Marshall         WV         950         1.07           10*21936         CHRISTOPHER L PARSONS & LAUDA A PARSONS         1/21/2018         Marshall         WV         950         3.3           10*21937         WHIELINS SOCIETY FOR CHIPMED CHILDREN JAYE         1/18/2018         Marshall         WV         950         3.3           10*21937         SEAN M GRENOBLE AND CHERVL A GRENOBLE         1/29/2017         Marshall         WV         950         9.1           10*21938         SEAN M GRENOBLE AND CHERVL A GRENOBLE         1/29/2017         Marshall         WV         950         9.1           10*21938         SEAN M GRENOBLE AND CHERVL A GRENOBLE         1/29/2017	RUDK G	9.88 ME0332					
10*21934         BERNETTA D BROWN AND DOUGLAS M BROWN         1/1.7/2018         Marshall         WV         960         1.57           10*21936         CHRISTOPHER L PARSONS & LAURA A PARSONS         1/21/2018         Marshall         WV         960         1.57           10*21936         CHRISTOPHER L PARSONS & LAURA A PARSONS         1/21/2018         Marshall         WV         960         1.70           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21938         SEAN M GRENOBLE AND CHERVLA GRENOBLE         12/9/2017         Marshall         WV         960         91           10*21938         ULA F NELSON         1/19/2018         Marshall         WV         960         95           10*21938         ULA F NELSON         1/19/2018         Marshall         WV         960         96	10*21929	BENNY MILLER	1/8/2018	Marshall	WV	960	177
10*21936         CHRISTOPHER L PARSONS & LAURA A PARSONS         1/21/2018         Marshall         WV         960         170           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21938         SEAN M GRENOBLE AND CHERYL A GRENOBLE         12/9/2017         Marshall         WV         960         91           10*21939         ULA F NELSON         1/19/2018         Marshall         WV         960         96		JAMES A GRENOBLE AND MARY JANE GRENOBLE	11/18/2017	Marshali	wv	953	263
10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21937         WHEELING SOCIETY FOR CRIPPLED CHILDREN JAY E PRAGER PRESIDENT         1/18/2018         Marshall         WV         960         33           10*21937         SEAN M GRENOBLE AND CHERVILA GRENOBLE         1/29/2017         Marshall         WV         960         91           10*21938         SEAN M GRENOBLE AND CHERVILA GRENOBLE         12/9/2017         Marshall         WV         960         91           10*21938         ULA F NELSON         1/19/2018         Marshall         WV         960         96							
10*21939         ULA F NELSON         1/19/2018         Marshall         WV         960         96           10*21943         THOMAS J STERLING JR AND STEPHANIE ANN         1/22/2018         Marshall         WV         960         98	10*21937			Marshal!	w	960	33
10*21943 THOMAS J STERLING JR AND STEPHANIE ANN 1/22/2018 Marchall 140/ 860 98	10*21938	SEAN M GRENOBLE AND CHERYL A GRENOBLE	12/9/2017	Marsha!!	wv	960	91
1/27/2019   Marchall   1/27/2019   Marchall   1/0/   060   00	,,		1/19/2018	Marshall	wv	960	96
	10*21943		1/22/2018	Marshall	wv	960	99

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10*21952	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	1/10/2018	Marshall	wv	959	478
						<u> </u>
10*21953		1/10/2018	Marshall	WV	959	480
10*21954	CHARLES E BLUE IV AND ALLA RABINOVICH	12/30/2017	Marshall	WV	959	482
10*21955	DWG OIL & GAS ACQUISITIONS LLC	12/20/2017	Marshall	wv	959	484
10*22001	GREGORY K GLOVER	11/30/2017	Marshali	w	953	271
10*22043	- CHILDRENS HOME SOCIETY OF WV	12/11/2017	Marshall	wv	TBD	TBD
10*22044	MICHAEL A BISHOP	1/16/2018	Marshall	wv	960	421
10*22045	DOUGLAS R BISHOP	1/16/2018	Marshall	wv	961	417
10*22046	PHYLLIS E HARVEY AND STEVEN E HARVEY	1/23/2018	Marshall	WV	960	398
10*22051	NOEL A PARKS	1/31/2018	Marshall	wv	960	509
10*22065	WESLEY R BRYAN II	2/2/2018	Marshall	WV	960	417
10*22065	WESLEY R BRYAN	2/2/2018	Marshali	wv	960	419

10*22132	988 PARE 0334 WILLIAM H WILD AND RUTH N WILD	1/19/2018	Marshall	wv	959	486
10*22133	LAURENCE MYERS EVANS II AND PENNY EVANS	1/19/2018	Marshall	wv	961	439
10*22134	JACK MICHAEL FOREMAN	1/31/2018	Marshall	wv	961	449
10*22156	ROBERTA MURPHY	12/29/2017	Marshall	wv	TBD	TBD
10*22267	MARJORIE B KIDD AND ROBERT C KIDD	1/22/2018	Marshall	wv	959	488
10*22270	ARTHUR ALVIN ANDERSON	1/31/2018	Marshali	wv	961	437
10*22282	MICHAEL A STERLING AND MEREDITH STERLING	2/8/2018	Marshall	wv	962	230
10*22292	JACQUELYN J JOHNSON AND SAMMY R JOHNSON	1/3/2018	Marshall	wv	957	113
10*22293	ROBERT W PARSONS AND LINDA B PARSONS	1/20/2018	Marshall	wv	962	197

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10*22296	NOAH BAKER AND ALISA BAKER	2/1/2018	Marshali	wv	962	200
10*22302	DONNA K ANDERSON AND LEROY ANDERSON	12/23/2017	Marshall	wv	957	122
10*22309	AARON D LITMAN AND BETTY J LITMAN	1/18/2018	Marshall	wv	963	408
10*22310	THE MOST REVEREND MICHAEL J BRANSFIELD BISHOP ROMAN CATHOLIC DIOCESE	1/2/2018	Marshail	wv	964	520
10*22311	WILLIAM L LITMAN AND VICKIE L LITMAN	1/18/2018	Marshall	wv	963	404
10*22312	RICHARD WOOD AND VICKI WOOD	1/16/2018	Mərshall	wv	962	528
10*22319	SHARON G VAN SCYOC	2/27/2014	Marshali	wv	822	204
10 <b>*</b> 22326	RACHEL SONDA AND SCOTT SONDA	2/22/2018	Marshall	wv	962	532
10*22349	ANITA RAE MILLER	11/17/2016	Marshail	wv	910	152
10*22404	REBECCA S LUKATS AND ELMER M LUKATS	1/23/2018	Marshall	wv	962	566

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10 <b>*22407</b>	BRADLEY MURPHY	2/17/2018	Marshall	wv	962	575
10*22408	REBECCA S TARR	2/9/2018	Marshall	wv	962	E70
10*22417	RONALD L PARSONS AND PAULA J PARSONS	2/26/2018	Marshall	WV	963	578 386
10*22430	DEBORAH VANVRANKEN	2/20/2018	Marshall	wv	964	510
10*22433	TERESA RANDOLPH	2/5/2018	Marshall	wv	964	218
10*22438	JULIE SPRINGWATER	1/30/2018	Marshall	wv	964	231
10*22442	SANDRA J HARMON AND WALTER D HARMON	2/15/2018	Marshail	w	966	106

			-100K 0 9 8	8 PAGE (	1 <mark>337</mark>	<del>.</del>
10*22449	MARGARET CLICKNER	2/15/2018	Marshaji	wv	963	644
10*22451	GERALD L BISHOP III	1/31/2018	Marshall	wv	964	31
10 <b>*22492</b>	FAITH MARIE FREESTONE AND ERIC FREESTONE	3/6/2018	Marshal!	wv	972	50
10*22500	DEBRA MORRIS	5/23/2013	Marshall	wv	797	617
10*22511	SHERLEY R STOWE & KAREN M STOWE	2/27/2018	Marshali	wv	966	104

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10*22512	MARILYN NOEL	3/2/2018	Marshall	wv	964	436
10*22513	DEBORAH BLOUGH	<b>3/1/2018</b>	Marshali	wv	964	438
10*22533	HARRY LEROY AND NANCY S PARRIOTT	4/11/2014	Marshali	wv	829	153
10*22534	DEBORAH D AND CALVIN P MERCER	4/11/2014	Marshall	wv	825 82B	639
10*22535	TRUDY B AND DANNY SAMPSON	4/11/2014	Marshall	wv	828	637
10*22536	TIMOTHY SCOTT AND AMY CLEMASTERS	4/11/2014	Marshall	wv	829	630
10*22537	BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS	4/22/2014	Marshall	wv	831	44
10*22538	RANDY K PARRIOTT	4/11/2014	Marshail	wv	836	455
10*22547	LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY	3/6/2018	Marshali		966	628
10 <b>*</b> 22548	SHARON TOLER WILLIAMS & HERVEY WILLIAMS	3/19/2018	Marshail	wv	966	194
10*22548 10*22550	SHARON TOLER WILLIAMS & HERVEY WILLIAMS SHARON TOLER WILLIAMS & HERVEY WILLIAMS	3/19/2018 3/19/2018	Marshail Marshail	wv	966 966	<u>194</u> 124

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10*22566	KENNETH A MILLER	2/12/2018	Marshall	wv	964	233
10*22583	THE RANDOLPH FAMILY TRUST MARY MARIE SPITLER RANDOLPH TRUSTEE	3/7/2018	Marshali	wv	965	602
10*22584	RICHARD P BACHMAN AND JEANETTE M BACHMAN	2/23/2018	Marshali	wv	965	604
10*22604	WILLIAM LEESON	2/19/2018	Marshall	wv	966	499
10*22605	MICHAEL R LEESON AND BRENDA R LEESON	2/26/2018	Marshall	wv	966	496
10*22606	ROBERT B MURPHY AND LINDA MURPHY	<b>3/14/2018</b>	Marshall	wv	965	469
10*22612	KATHARINE EVANS COFFEY	3/26/2018	Marshall	wv	966	525
10*22636	CHANDA WILSON AND DANIEL WILSON	3/29/2018	Marshall	wv	968	226
10*22637	HOWARD T CONNER AND NANETTE CONNER	4/6/2018	Marshail	wv	968	219
10*22639	EDWIN MARK KNABENSHUE	4/6/2018	Marshall	wv	968	217
10*22640	JESSICA M CREMEANS	4/6/2018	Marshall	ŴV	TBD	TBD
10*22641	CHRISTOPHER STALEY & MICHAEL ANNE STALEY	4/6/2018	Marshali	wv	968	221

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10*22645         STANLEY EUGENE STOWE         4/4/2018         Marshall         V/V         TBD         TBD           10*22655         JAMES & ANDERSON AND MELODY A ANDERSON         10/1/2/2013         Marshall         V/V         812         81           10*22657         REBEAH DRAFE BLIRINGE AND CHRISTOPHE         10/1/2/2013         Marshall         V/V         850         157           10*22667         REBEAH DRAFE BLIRINGE AND CHRISTOPHE         11/4/2014         Marshall         V/V         850         157           10*22677         BRIDGET A POWDERLY         4/6/2018         Marshall         W/V         850         157           10*22774         BRIDGET A POWDERLY         4/6/2018         Marshall         W/V         TBD         TBD           10*22774         BRIDGET A POWDERLY         4/6/2018         Marshall         W/V         TBD         TBD           10*22774         MARY E MUMFORD         4/3/2018         Marshall         W/V         TBD         TBD           10*22773         JAMES AND DIANA MIDCAP         7/17/2013         Marshall         W/V         803         515           10*22773         JAMES AND DIANA MIDCAP         7/17/2013         Marshall         W/V         803         515		(0)00 INGLOOMO						
10*22667         REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE         11/4/2014         Marshall         WV         850         157           10*22667         REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE         11/4/2014         Marshall         WV         850         157           10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22751         WILLJAM N AND VIRGINIA ROUPE         3/27/2018         Marshall         WV         TBD         TBD           10*22773         JAMES AND DJANA MIDCAP         7/137/2013         Marshall         WV         TBD         TBD         TBD           10*22773         BILLE J AND APRILSTALEY         4/21/2018         Marshall         WV         803         615           10*22772         BILLE J AND APRILSTALEY         4/21/2014         Marshall         WV         850         159           10*22773         CHRISTA DAVER STALEY AND JOSHUA STALEY         11/20/2014         Marshall         WV         850         159           10*22776         BRENDRA FARE THOMAS PETRACK         11/4/2014         Marshall         WV	10*22645	STANLEY EUGENE STOWE	4/4/2018	Marshali	wv	TBD	TBD	×
10*22667         REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE         11/4/2014         Marshall         WV         850         157           10*22767         BRIDGET A POWDERLY         4/6/2014         Marshall         WV         850         157           10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22751         WILLIAM N AND VIRGINIA ROUPE         3/27/2018         Marshall         WV         TBD         TBD           10*22751         WILLIAM N AND VIRGINIA ROUPE         3/27/2018         Marshall         WV         TBD         TBD           10*22773         JAMES AND DIANA MIDCAP         7/17/2013         Marshall         WV         TBD         TBD         TBD           10*22773         BILLE I AND APRILSTALEY         4/21/2018         Marshall         WV         803         615           10*22772         BILLE I AND APRILSTALEY         4/21/2014         Marshall         WV         850         159           10*22773         CHRISTA CHEY STALEY AND DOSHUA STALEY         4/21/2014         Marshall         WV         850         159           10*22776         BRENDA FAYER STALEY AND DOSHUA STALEY         11/20/2014         Marshall         WV         85	10*22665	JAMES & ANDERSON AND MELODY & ANDERSON	10/14/2012	Mamball		040		-
10*22897         ELDRIDGE         11/4/2014         Marshall         WV         850         157           10*22807         ELDRIDGE         1/4/2014         Marshall         WV         850         157           10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22747         MARY E MUMFORD         4/3/2018         Marshall         WV         TBD         TBD           10*22751         WILLIAM N AND VIRGINIA ROUPE         3/27/2018         Marshall         WV         TBD         TBD           10*22773         JAMES AND DIANA MIDCAP         7/17/2013         Marshall         WV         850         151           10*22773         CHRISTA DAPRIL STALEY AND JOSHULSTALEY         4/21/2014         Marshall         WV         850         1561           10*22772         BILLIE J AND APRIL STALEY         11/4/2014         Marshall         WV         850         159           10*22773         CHRISTA RET KAN JOHAN MIDCAP         7/17/2013         Marshall         WV         850         151           10*22776         BURDA APRIL S				Indialant	- WV	1 <u>817</u>	51	4
10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22744         BRIDGET A POWDERLY         4/6/2018         Marshall         WV         TBD         TBD           10*22747         MARY E MUMFORD         4/3/2018         Marshall         WV         TBD         TBD           10*22751         WILLIAM N AND VIRGINIA ROUPE         3/27/2018         Marshall         WV         TBD         TBD           10*22773         JAMES AND DIANA MIDCAP         7/17/2013         Marshall         WV         TBD         TBD           10*22773         BILLIE J AND APRIL STALEY         4/21/2018         Marshall         WV         803         615           10*22777         BOYD BUESKING         11/4/2014         Marshall         WV         850         159           10*22770         BRENDA FARE THOMAS PETRACK         11/4/2014         Marshall         WV         850         156           10*22776         GAIL ANN YATES WOOD AND WESLEY 1 WOOD         11/4/2014         Marshall         WV         848         206           10*22776         GAIL ANN YATES MAD DAIN L HOLMES         10/31/2014         Marshall         WV         848         204           10*22780 <td>10*22667</td> <td>4</td> <td>11/4/2014</td> <td>Marshall</td> <td>wv</td> <td>850</td> <td>157</td> <td></td>	10*22667	4	11/4/2014	Marshall	wv	850	157	
10*22751       WILLIAM N AND VIRGINIA ROUPE       3/27/2018       Marshall       WV       TBD       TBD       #         10*22753       JAMES AND DIANA MIDCAP       7/17/2013       Marshall       WV       803       615         10*22772       BILLIE J AND APRIL STALEY       4/21/2018       Marshall       WV       TBD       TBD       #         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       851       3         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       850       159         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/4/2014       Marshall       WV       850       159         10*22776       BOYD BUESKING       11/14/2014       Marshall       WV       850       161         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       848       206         10*22787       GAIL ANN YATES WOOD AND WESLEY J WOOD       11/4/2014       Marshall       WV       848       204         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*22808       SHIRLEY YATES		BRIDGET A POWDERLY	4/5/2018	Marshali	wv	TBD	TBD	X
10*22751       WILLIAM N AND VIRGINIA ROUPE       3/27/2018       Marshall       WV       TBD       TBD       #         10*22753       JAMES AND DIANA MIDCAP       7/17/2013       Marshall       WV       803       615         10*22772       BILLIE J AND APRIL STALEY       4/21/2018       Marshall       WV       TBD       TBD       #         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       851       3         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       850       159         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/4/2014       Marshall       WV       850       159         10*22776       BOYD BUESKING       11/14/2014       Marshall       WV       850       161         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       848       206         10*22787       GAIL ANN YATES WOOD AND WESLEY J WOOD       11/4/2014       Marshall       WV       848       204         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*22808       SHIRLEY YATES	10*22747	MARY E MUMFORD	4/3/2018	Marshall	₩V	TBD	TBD	× X
10*22772       BILLIE J AND APRIL STALEY       4/21/2018       Marshall       WV       TBD       TBD         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       TBD       TBD         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       851       3         10*22777       BOYD BUESKING       11/14/2014       Marshall       WV       850       159         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       848       206         10*22785       GUY YATES       11/4/2014       Marshall       WV       848       206         10*22788       GENIE SUE THOMAS HOLMES AND JOHN L HOLMES       10/31/2014       Marshall       WV       848       204         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       212         10*22808       SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL       11/4/2014       Marshall       WV       848       212         10*22810       CLYDE V. & KAREN S REED       4/7/2015       Marshall       WV       864       190         10*22858       THOMAS C AND MARY ELLEN DAVIS       4/25/2018	1	WILLIAM N AND VIRGINIA ROUPE	3/27/2018	Marshali	wv	TBD	TBD	
10*22772       BILLIE J AND APRIL STALEY       4/21/2018       Marshall       WV       TBD       TBD       TBD         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       851       3         10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       851       3         10*22777       BOYD BUESKING       11/14/2014       Marshall       WV       850       159         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       848       206         10*22785       GUY YATES       11/4/2014       Marshall       WV       848       206         10*22786       GUY YATES       11/4/2014       Marshall       WV       848       208         10*22787       GAIL ANN YATES WOOD AND WESLEY J WOOD       11/4/2014       Marshall       WV       848       208         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*22808       SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL       11/4/2014       Marshall       WV       864       190         10*22858       THOMAS C AND MARY ELLEN DAVIS       4/25/2018<	10*22753	JAMES AND DIANA MIDCAP	7/17/2013	Marshali	wv	803	615	1
10*22773       CHRISTA DRAYER STALEY AND JOSHUA STALEY       11/20/2014       Marshall       WV       851       3         10*22777       BOYD BUESKING       11/14/2014       Marshall       WV       850       159         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       850       161         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       848       206         10*22785       GUY YATES       11/4/2014       Marshall       WV       848       206         10*22787       GAIL ANN YATES WOOD AND WESLEY J WOOD       11/4/2014       Marshall       WV       848       208         10*22788       GENIE SUE THOMAS HOLMES AND JOHN L HOLMES       10/31/2014       Marshall       WV       848       204         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*22808       SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL       11/4/2014       Marshall       WV       864       190         10*22810       CLYDE V. & KAREN S REED       4/7/2015       Marshall       WV       864       190         10*22858       THOMAS C AND MARY ELLEN DAVIS       4/25/2018 </td <td>10*22772</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 35</td>	10*22772							1 35
10*22777       BOYD BUESKING       11/14/2014       Marshall       WV       850       159         10*22780       BRENDA FAYE THOMAS PETRACK       11/4/2014       Marshall       WV       850       161         10*22780       GUY YATES       11/4/2014       Marshall       WV       848       206         10*22787       GAIL ANN YATES WOOD AND WESLEY J WOOD       11/4/2014       Marshall       WV       848       208         10*22788       GENIE SUE THOMAS HOLMES AND JOHN L HOLMES       10/31/2014       Marshall       WV       848       204         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*2280B       SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL       11/4/2014       Marshall       WV       848       212         10*22810       CLYDE V. & KAREN S REED       4/7/2015       Marshall       WV       864       190         10*22858       THOMAS C AND MARY ELLEN DAVIS       4/25/2018       Marshall       WV       TBD       TBD         10*22862       VERA VAN LAW TRUST BY ERIC M G       5/1/2018       Marshall       WV       TBD       TBD	10*22773							1
10*22780         BRENDA FAYE THOMAS PETRACK         11/4/2014         Marshall         WV         850         161           10*22786         GUY YATES         11/4/2014         Marshall         WV         848         206           10*22787         GAIL ANN YATES WOOD AND WESLEY J WOOD         11/4/2014         Marshall         WV         848         208           10*22788         GENIE SUE THOMAS HOLMES AND JOHN L HOLMES         10/31/2014         Marshall         WV         848         204           10*22801         BOYD DAIL YATES JR AND MARLA YATES         11/4/2014         Marshall         WV         848         210           10*22808         SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL         11/4/2014         Marshall         WV         848         212           10*22810         CLYDE V. & KAREN S REED         4/7/2015         Marshall         WV         864         190           10*22858         THOMAS C AND MARY ELLEN DAVIS         4/25/2018         Marshall         WV         TBD         TBD           10*22862         VERA VAN LAW TRUST BY ERIC M G         5/1/2018         Marshall         WV         TBD         TBD	10*22777	BOYD BUESKING	11/14/2014					
10*22785       GUY YATES       11/4/2014       Marshall       WV       848       206         10*22787       GAIL ANN YATES WOOD AND WESLEY J WOOD       11/4/2014       Marshall       WV       848       208         10*22788       GENIE SUE THOMAS HOLMES AND JOHN L HOLMES       10/31/2014       Marshall       WV       848       204         10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*2280B       SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL       11/4/2014       Marshall       WV       848       212         10*22810       CLYDE V. & KAREN S REED       4/7/2015       Marshall       WV       864       190         10*22858       THOMAS C AND MARY ELLEN DAVIS       4/25/2018       Marshall       WV       TBD       TBD         10*22862       VERA VAN LAW TRUST BY ERIC M G       5/1/2018       Marshall       WV       TBD       TBD	10*22780	BRENDA FAYE THOMAS PETRACK			wv			1
10*22787GAIL ANN YATES WOOD AND WESLEY J WOOD11/4/2014MarshallWV84820810*22788GENIE SUE THOMAS HOLMES AND JOHN L HOLMES10/31/2014MarshallWV84820410*22801BOYD DAIL YATES JR AND MARLA YATES11/4/2014MarshallWV84821010*2280BSHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL11/4/2014MarshallWV84821210*22810CLYDE V. & KAREN S REED4/7/2015MarshallWV86419010*22858THOMAS C AND MARY ELLEN DAVIS4/25/2018MarshallWVTBDTBD10*22862VERA VAN LAW TRUST BY ERIC M G5/1/2018MarshallWVTBDTBD	10*22786							
10*22788GENIE SUE THOMAS HOLMES AND JOHN L HOLMES10/31/2014MarshallWV84820410*22801BOYD DAIL YATES JR AND MARLA YATES11/4/2014MarshallWV84821010*2280BSHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL11/4/2014MarshallWV84821210*22810CLYDE V. & KAREN S REED4/7/2015MarshallWV86419010*22858THOMAS C AND MARY ELLEN DAVIS4/25/2018MarshallWVTBDTBD10*22862VERA VAN LAW TRUST BY ERIC M G5/1/2018MarshallWVTBDTBD	10*22787	GAIL ANN YATES WOOD AND WESLEY J WOOD						
10*22801       BOYD DAIL YATES JR AND MARLA YATES       11/4/2014       Marshall       WV       848       210         10*2280B       SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL       11/4/2014       Marshall       WV       848       212         10*22810       CLYDE V. & KAREN S REED       4/7/2015       Marshall       WV       864       190         10*22858       THOMAS C AND MARY ELLEN DAVIS       4/25/2018       Marshall       WV       TBD       TBD         10*22862       VERA VAN LAW TRUST BY ERIC M G       5/1/2018       Marshall       WV       TBD       TBD	10*22788	GENIE SUE THOMAS HOLMES AND JOHN L HOLMES						
10*2280B         SHIRLEY YATES HARTSELL AND FREDDIE LEE HARTSELL         11/4/2014         Marshall         WV         848         212           10*22810         CLYDE V. & KAREN S REED         4/7/2015         Marshall         WV         864         190           10*22858         THOMAS C AND MARY ELLEN DAVIS         4/25/2018         Marshall         WV         700         700           10*22862         VERA VAN LAW TRUST BY ERIC M G         5/1/2018         Marshall         WV         TBD         TBD								1
10*22810     CLYDE V. & KAREN S REED     4/7/2015     Marshall     WV     864     190       10*22858     THOMAS C AND MARY ELLEN DAVIS     4/25/2018     Marshall     WV     TBD     TBD       10*22862     VERA VAN LAW TRUST BY ERIC M G     5/1/2018     Marshall     WV     TBD     TBD			11/4/2014	Marshali	wv	848	210	
10*22858     THOMAS C AND MARY ELLEN DAVIS     4/25/2018     Marshall     WV     TBD     TBD       10*22862     VERA VAN LAW TRUST BY ERIC M G     5/1/2018     Marshall     WV     TBD     TBD					· · · · · · · · · · · · · · · · · · ·			<b>`</b>
10*22862 VERA VAN LAW TRUST BY ERIC M G 5/1/2018 Marshall WV TBD TBD	10-22810	CLYDE V. & KAREN S REED	4/7/2015	Marshail	wv	864	190	
	10*22858	THOMAS CAND MARY ELLEN DAVIS	4/25/2018	Marshail	wv	TBD	TBD	×
10*22865 JAMES H CAMPBELL 5/9/2018 Marshall WV 977 60	10*22862	VERA VAN LAW TRUST BY ERIC M G	5/1/2018	Marshall	wv	TBD	TBD	¥
	10*22865	JAMES H CAMPBELL	5/9/2018	Marshall	wv	977	60	

	T	Γ	nnay O	988	NOEO 3	<b>k</b> -↓	1
		1	BUUN O				
10*22866	MARGARET R DONOFRIO	5/8/2018	Marshali	wv	977	57	
10*22974	PAMELA B TURNER	5/3/2018	Marshali	wv	TBD	TBD	¥
10*22980	DEBRA L DANIEL	5/3/2018	Marshall	wv	TBD	TBD	*/
10*23004	KLOVA A MORRIS	5/17/2018	Marshall	wv	TBD	TBD	]*
10 <b>*23</b> 035	DEAN S CARR	5/2/2018	Marshali		TBD	TBD	×
10*23037	CHARLES EDWARD FURBEE	4/7/2018	Marshali	wv	TBD	TBD	*
10*23040	MARY L WHITTINGTON	3/29/2018	Marshail	wv	977	300	
10*23109	MARTHA C AND RICHARD D JR HYRE	5/11/2018	Marshall	wv	TBD	TBD	X
10 <b>*</b> 23116	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	5/30/2018	Marshali	w	TBD	TBD	
							1
10*23121	ROBERT L BERISFORD	5/3/2018	Marshall	wv	TBD	TBD	×
10*23121 10*23129	ROBERT L BERISFORD BONNIE S SMITH	5/3/2018 5/7/2018	Marshall Marshall	wv wv	TBD TBD	TBD TBD	XX
							XXX
10*23129	BONNIE S SMITH	5/7/2018	Marshall	wv	TBD	TBD	XXX
10*23129 10*23130	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH	5/7/2018 5/5/2018	Marshall Marshall	wv wv	TBD TBD	TBD TBD	XXX
10*23129 10*23130 10*47051.089.0	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP	5/7/2018 5/5/2018 11/3/2014	Marshall Marshall Marshall	wv wv wv	TBD TBD 864	TBD TBD 148	XXX
10*23129 10*23130 10*47051.089.0 10*47051.105.0	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON	5/7/2018 5/5/2018 11/3/2014 11/6/2014	Marshall Marshall Marshall Marshall	wv wv wv wv	TBD TBD 864 859	TBD TBD 148 478	XXX
10*23129 10*23130 10*47051.089.0 10*47051.105.0 10*47051.127.1	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON EDWIN C MILLER AND KIMBERLY ANN MILLER	5/7/2018 5/5/2018 11/3/2014 11/6/2014 11/6/2014	Marshall Marshall Marshall Marshall Marshall	wv wv wv wv	TBD TBD 864 859 885	TBD           TBD           148           478           61	XXX
10*23129 10*23130 10*47051.089.0 10*47051.105.0 10*47051.127.1 10*47051.127.2	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON EDWIN C MILLER AND KIMBERLY ANN MILLER JANE S BLANEY	5/7/2018 5/5/2018 11/3/2014 11/6/2014 11/6/2014 10/26/2015	Marshall Marshall Marshall Marshall Marshall Marshall	*** *** *** ***	TBD TBD 864 859 885 885	TBD           TBD           148           478           61           547	XXX
10*23129 10*23130 10*47051.089.0 10*47051.105.0 10*47051.127.1 10*47051.127.2 10*47051.127.3	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON EDWIN C MILLER AND KIMBERLY ANN MILLER JANE S BLANEY JOANNE SCHALL FOSTER	5/7/2018 5/5/2018 11/3/2014 11/6/2014 11/6/2014 10/26/2015 10/26/2015	Marshall Marshall Marshall Marshall Marshall Marshall Marshall	** ** ** ** **	TBD TBD 864 859 885 885 898 898	TBD           TBD           148           478           61           547           29	XXX
10*23129 10*23130 10*47051.089.0 10*47051.105.0 10*47051.127.1 10*47051.127.2 10*47051.127.3 10*47051.127.4 10*47051.127.5	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON EDWIN C MILLER AND KIMBERLY ANN MILLER JANE S BLANEY JOANNE SCHALL FOSTER RAYMOND E SCHALL FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES BARBARA GODWIN AND CHARLES RODNEY GODWIN	5/7/2018 5/5/2018 11/3/2014 11/6/2014 11/6/2014 10/26/2015 10/26/2015 10/26/2015 12/2/2015 12/18/2015	Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall	** ** ** ** ** ** ** ** ** ** **	TBD           TBD           864           859           885           898           898           898           902	TBD           TBD           148           478           61           547           29           550           600           419	XX
10*23129 10*23130 10*47051.089.0 10*47051.105.0 10*47051.127.1 10*47051.127.2 10*47051.127.3 10*47051.127.4 10*47051.127.5 10*47051.127.6	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON EDWIN C MILLER AND KIMBERLY ANN MILLER JANE S BLANEY JOANNE SCHALL FOSTER RAYMOND E SCHALL FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES BARBARA GODWIN AND CHARLES RODNEY GODWIN KAREN M WILSON	5/7/2018 5/5/2018 11/3/2014 11/6/2014 11/6/2014 10/26/2015 10/26/2015 10/26/2015 12/22/2015 12/18/2015 11/7/2014	Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall	** ** ** ** ** ** ** ** ** ** **	TBD           TBD           864           859           885           898           898           898           902           873	TBD           TBD           148           478           61           547           29           550           600           419           150	XXX
10*23129 10*23130 10*47051.089.0 10*47051.105.0 10*47051.127.1 10*47051.127.2 10*47051.127.3 10*47051.127.4 10*47051.127.5	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH LARRY W DUNLAP AND BARBARA E DUNLAP JAMES B JACKSON JR AND MARION L JACKSON EDWIN C MILLER AND KIMBERLY ANN MILLER JANE S BLANEY JOANNE SCHALL FOSTER RAYMOND E SCHALL FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES BARBARA GODWIN AND CHARLES RODNEY GODWIN	5/7/2018 5/5/2018 11/3/2014 11/6/2014 11/6/2014 10/26/2015 10/26/2015 10/26/2015 12/2/2015 12/18/2015	Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall	** ** ** ** ** ** ** ** ** ** **	TBD           TBD           864           859           885           898           898           898           902	TBD           TBD           148           478           61           547           29           550           600           419	XXX

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10*47051.261.1	WILLIAM HUBBARD	1/5/2015	Marshall	wv	882	536
10*47051.261.2	BONNIE G ZELIC	1/5/2015	Marshall	wv	882	539
10*47051.261.3	JOHN P SMITH JR	1/5/2015	Marshall	wv	882	542
10*47051.261.4	BRADLEY L HUBBARD AND CONNIE L HUBBARD	1/5/2015	Marshall	wv	898	573
10*47051.307.0	JASON J STEED	2/4/2016	Marshall	wv	894	508
10*47051.308.0	KAREN M WILSON	2/4/2016	Marshali	wv	894	511
10*47051.331.1	LEEANN M LEMONOVICH	5/12/2016	Marshali	wv	910	136

#### Exhibit "A-2" HG Energy II Appalachia, LLC (Leases and Fee)

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	T		r	T			<b>.</b>	<u> </u>	
Losse Number	Original Lessor	Original Lessee	Lesse Date	Lease Gross Acres	State	County	Book	Page Number	Numbe
		TRIENERGY HOLDINGS,					1	1	
TH19175 TH19101	WILLIAM N. ROUPE ET UX	<u>uc</u>	08/26/2010	5.23	wv	MARSHALL	711	503	129440
TH19101	FRANCES E. NIEMAN FRANCES E. NIEMAN	AB RESOURCES LLC AB RESOURCES LLC	07/15/2009	66.92	WV.	MARSHALL	685	288	127422
	There is high a	Pro actionate Lite	07/13/2005	66.92	wv	MARSHALL	685	288	127422
Q083734000	JAMES A WADE SR	TRIENERGY HOLDINGS LLC	05/20/2010	8.38	wv	MARSHALL	707	371	129138
							1		
Q083831000	JAMES & PERSINGER ET UX CLAYTON LEE PERSINGER	TRIENERGY HOLDINGS LLC	07/27/2010	16.3788	wv	MARSHALL	711	359	
Q083689000	ETUX	TRIENERGY HOLDINGS LLC	08/31/2010	1.54	wv	A A DEMAN	-		
	1	TRADEROT HOLDINGS LLC			WV.	MARSHALL	714	97	129532
Q083716000	KEVIN W WALLACE	TRIENERGY HOLDINGS LLC	09/02/2010	0,323	wv	MARSHALL	715	193	1295959
							1	1	
Q083704000	ANNE C KLEM JESUS BUSTAMANTE ET	TRIENERGY HOLDINGS LLC	10/12/2010	1.4	WV	MARSHALL	719	352	1297992
Q083671000	UX	TRIENERGY HOLDINGS LLC	11/00/2010	0.99				1	
	<u> </u>	Thickens Trocomos LL	11/09/2010	0,39	wv	MARSHALL	734	263	1305623
Q083768092	GEORGE A KNUTH ET UX	NOBLE ENERGY INC	07/12/2013	2.743	w	MARSHALL	803	345	1348490
	KENNETH EUGENE WHITE								
Q080154001	ETUX	NOBLE ENERGY INC	11/05/2013	0.359	wv	MARSHALL	815	533	1355092
Q081124001	JAMES REDMAN LEGG II ET AL	NOBLE ENERGY INC	14 hr have	-				1	
Q081123001	JEFFREY L LEGG	NOBLE ENERGY INC	11/05/2013 11/05/2013	72,141 20.5	WV WV	MARSHALL	816	548	135593
						MARSHALL	816	330	135592
Q088946000	LETHA I RUCKMAN	TRIENERGY HOLDINGS LLC	11/29/2011	0.612	wv	MARSHALL	765	219	132319
							1		
Q068946000	LETHA I RUCKMAN	TRIENERGY HOLDINGS LLC	11/29/2011	0.612	wv	MARSHALL	765	219	132319
0092606000	EDUCATION OF COUNTY	NOBI F ENERGY MA	ne ha haar				<sup>_</sup>		1
4072000000	OF MARSHALL	NOBLE ENERGY INC	06/09/2015	0.8594	wv	MARSHALL	896	501	140710
Q063860000	MARY D RUCKMAN	TRIENERGY HOLDINGS LLC	12/01/2011	0.135	wv	MARSHALL	765	224	132319
							<u>†</u>	+	1. 1.52319
Q083850000	MARY D RUCKMAN	TRIENERGY HOLDINGS LLC	12/01/2011	0.135	wv	MARSHALL	765	224	132319
0.00000000									
CVX866529 CVX866958	FRANCES E NIEMAN ET AL ANITA L. SLOUGH ET AL	AB RESOURCES LLC	07/15/2009	23.355	wv	MARSHALL	685	283	127422
-1400/338	PAUL SCHEIBELHOOD ET	CHEVRON U.S.A., INC.	12/13/2009	320.491	wv	MARSHALL	696	7	128265
CVX866959	AL	CHEVRON U.S.A., INC.	12/13/2009	320,491	wv	MARSHALL	695	629	128263
		TRIENERGY HOLDINGS,				WARDING.		- wa	120203
CVX868463	FRANCIS D. BARR ET UX	uc	03/04/2011	0.57	wv	MARSHALL	737	252	130750
		TRIENERGY HOLDINGS,							
CVX858468	DEBORAH S. MIDCAP	LLC	03/04/2011	0.9381	WV	MARSHALL	737	260	1307514
CVX868399	KEITH D. DANIELS ET UX	TRIENERGY HOLDINGS, LLC	00 he hose	4 50			1		
<u>C174000355</u>	NETTI O. DAMELS ET OA	TRIENERGY HOLDINGS,	03/24/2011	1.53	wv	MARSHALL	735	216	1306241
CVX868337	RALPH DUNLAP	цс	03/25/2011	1.5	wv	MARSHALL	737	433	1307736
		TRIENERGY HOLDINGS,					<u> </u>	1	
CVX858688	THOMAS E. MIDCAP ET UX	μc	04/01/2011	0.751	wv	MARSHALL	738	482	1308133
CVX935969 CVX936054	TIMOTHY HUFF ET UX MARY JO CRONIN	CHEVRON U.S.A., INC.	10/06/2014	317,457	WV	MARSHALL	864	47	1379827
CVX936058	RICHARD KURPIL ET UX	CHEVRON U.S.A., INC. CHEVRON U.S.A., INC.	10/15/2014 10/16/2014	<u>317,467</u> 317,467	WV WV	MARSHALL	864	43	1379820
CVX936061	CLARA MAE CLIFTON	CHEVRON U.S.A., INC.	10/18/2014	317,467	wv	MARSHALL	863 853	594 426	137977
CVX935273	PAUL PARSONS ET UX	CHEVRON U.S.A., INC.	10/18/2014	317.A67	wv	MARSHALL	853	430	1374816
CVX935276	SHARON LYN RUSSELL	CHEVRON U.S.A., INC.	10/22/2014	317.467	WV	MARSHALL	853	422	1374813
CVX936062	CTODET CONVADE CT.IN				Ĩ				
CVX935271	GEORGE EDWARDS ET UX CHARLES W. MILLER	CHEVRON U.S.A., INC.	10/22/2014 10/29/2014	<u>317.467</u> 317.467	wv	MARSHALL	853	418	1374812
CVX936113	JUDITH MAY CONNER	CHEVRON U.S.A., INC.	11/07/2014	317.467	wv wv	MARSHALL	853 853	59 445	1374515
CVX936112	DONNA FAE KYLE	CHEVRON U.S.A., INC.	11/07/2014	317.467	wv	MARSHALL	853	449	1374823 1374824
CVX947093	RICHARD J. GATTS	CHEVRON USA INC	11/02/2016	98.819	WV	MARSHALL	899	479	1411787
	MARY WITTEN HART				1				
Q074011009 Q074011010	EHLERS CATHY HART PRICE	NOBLE ENERGY INC	02/14/2013		wv	MARSHALL	789	552	1339871
Q074011010	DONALD R HART JR	NOBLE ENERGY INC NOBLE ENERGY INC	02/14/2013	<u>113.6</u> 113.6	wv	MARSHALL	789	534	1339858
Q074011002	DOROTHY ANN NEAL	NOBLE ENERGY INC	02/14/2013 02/14/2013	231.35	wv	MARSHALL	789 789	554 547	1339872 1339868
Q074011002	DOROTHY ANN NEAL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	547	1339868
Q074011003	JOSEPH MOORE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	545	1339857
Q074011003	JOSEPH MOORE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	545	1339867
Q074011004	MARGERY J WITTEN	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	543	1339866
Q074011004 Q074011005	MARGERY J WITTEN ANN ALEXANDER	NOBLE ENERGY INC NOBLE ENERGY INC	02/14/2013 02/14/2013	231.35	WV	MARSHALL	789	543	1339866
Q074011005	ANN ALEXANDER	NOBLE ENERGY INC	02/14/2013	231.35		MARSHALL	789 789	541 541	1339865 1339865
Q074011006	FRANCES GALE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	536	1339862
Q074011006	FRANCES GALE NEAL	NOBLE ENERGY INC	02/14/2013	291.35	wv	MARSHALL	789	536	1339862
0074011000	SUSAN WITTEN NEAL	T							1342848
Q074011007	MEYERS ET AL SUSAN WITTEN NEAL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	794/789	352/538	1339863
Q074011007	MEYERS ET AL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	704/700	357/520	1342848
Q074011008	JANE WITTEN YOTH	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL MARSHALL	794/789 789	352/538 559	1339863 1339874
Q074011008	JANE WITTEN VOTH	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	559	1339874
Q075237000	MALISSA A MASON	NOBLE ENERGY INC	12/26/2012	2.846	wv	MARSHALL	787	59	1337288
Q074547000	EDWIN C MILLER ET UX WEST VIRGINIA	NOBLE ENERGY INC	03/11/2013	180,31	wv	MARSHALL	792	506	1341694
1	DEPARTMENT OF	1	ŀ	1		1			
Q075763000	TRANSPORTATION	NOBLE ENERGY INC	03/13/2013	1.48	wv	MARSHALL	797	642	1345054
Q075434005	EUZABETH J STEWART	NOBLE ENERGY INC	03/20/2013	10.88	wv	MARSHALL	797	132	1345054
	JAMES E ROBINSON ET UX	NOBLE ENERGY INC	03/22/2013	10.88	w	MARSHALL	795	188	1343574
0075434002	THOMAS L ROBINSON	NOBLE ENERGY INC	03/22/2013	10.88	WV	MARSHALL	795	190	1343575
Q075434003	PATRICIA A ANKROM	NOBLE ENERGY INC	03/22/2013	10.88	wv	MARSHALL	795	184	1343572
Q075434004	JOHN S ROBINSON ET UX	NOBLE ENERGY INC	03/22/2013	10.88	wv	MADELIAM		107	1940
Q074927000	LUCILLE MYERS	NOBLE ENERGY INC	04/09/2013	10.88	WV	MARSHALL	795 794	<u>185</u> 497	1343573
							<u> </u>		
0076643000	JONEL L PERSINGER ET UX JOHN JOSEPH GOUDY	NOBLE ENERGY INC	05/15/2013 05/28/2013	1.37		MARSHALL	797	430	1344812

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#### Exhibit "A-2" HG Energy II Appalachia, LLC (Loases and Fee)

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0076869000	EDWARD DAVID KNUTH	NOR E ENERGY INC.	or he here						
Q075644000	JAMES B MIDCAP ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	06/10/2013 06/12/2013	1.605	WV	MARSHALL	803	598	1348775
0075469000	JUNE MORRIS	NOBLE ENERGY INC	06/27/2013	0.852 2.06	wv wv	MARSHALL MARSHALL	803	<u>336</u> 275	1348492 1347909
Q077348000	JAMES B MIDCAP ET UX	NOBLE ENERGY INC	07/09/2013	0.1	WV	MARSHALL	806	358	1350771
Q077350000	ROBERT SHIELDS ET AL	NOBLE ENERGY INC	07/16/2013	0.3	WV	MARSHALL	806	355	1350769
Q076872002	DAVID E RIEL	NOBLE ENERGY INC	07/17/2013	9.188	WV	MARSHALL	806	362	1350773
	<b>RAYMOND E CONNER SR</b>				1		1		
Q076767001	ETUX	NOBLE ENERGY INC	07/17/2013	1.277	w	MARSHALL	803	631	1348792
Q076872003	ALICE E DUNLAP	NOBLE ENERGY INC	08/01/2013	9.188	WV	MARSHALL	805	587	1350438
						ł			
Q076872004	LARRY W DUNLAP ET UX	NOBLE ENERGY INC	08/01/2013	9.188	WV	MARSHAUL	805	582	1350437
Q076872001	WILLIAM R DUNLAP	NOBLE ENERGY INC	08/04/2013	9.188	WV	MARSHALL	806	636	1348795
Q078626001	LUCILLE E WINGROVE	NOBLE ENERGY INC	08/08/2013	12.485	WV	MARSHALL	810	80	1852555
Q077358001	JON DAVID FROMHART	NOBLE ENERGY INC	08/15/2013	2	wv	MARSHALL	805	580	1350435
Q077357000	LINDA J SIMMONS	NOBLE ENERGY INC	08/16/2013	0.732	WV.	MARSHALL	805	575	1350433
0078778000	SAMUELL CANTERBURY	NOR FENERAL INC.							
00/6//5000	ET UX	NOBLE ENERGY INC	08/16/2013	0.65	wv	MARSHALL	810	68	1352547
Q078775000	UX	NOBLE ENERGY INC					1	-	
	LINDA DIANE BROWN ET	HODEL ENCINET INC	08/22/2013	3.192	<u>wv</u>	MARSHALL	810	70	1352548
Q076872005	ViR	NOBLE ENERGY INC	08/27/2013	9.188	wv	MARSHALL	816	192	1355476
	PATRICIA ANN BELCH ET				+ •••			- <u>***</u> -	1335470
Q076872006	VIR	NOBLE ENERGY INC	08/27/2013	9.188	wv .	MARSHALL	816	306	1355658
					+	11990-01-944	- <u> </u>		1333000
Q077562000	ELIZABETH ANNE MOORE	NOBLE ENERGY INC	08/28/2013	35,265	wv	MARSHALL	806	302	1350735
Q077913000	RICK A KOSKY	NOBLE ENERGY INC	09/03/2013	0.5	wv	MARSHALL	806	353	1350757
	ROBERT SIDNEY				<u> </u>				
Q078779000	ANDERSON ET UX	NOBLE ENERGY INC	09/04/2013	0.991	wv	MARSHALL	810	74	1352551
			1		+ ····			t_~~	
Q079184000	GLORIA JEAN WHITE ET AL	NOBLE ENERGY INC	09/18/2013	0.525	wv	MARSHALL	808	392	1351624
Q078651000	JUNE M MORRIS	NOBLE ENERGY INC	09/19/2013	0.115	WV	MARSHALL	808	388	1351622
0079517000	EARL B SUTER JR ET UX	NOBLE ENERGY INC	09/26/2013	0.085	wv	MARSHALL	809	640	1352496
	MILLARD JUNIOR		1	1	1			1	1
Q079757000	BONNETTE ET UX	NOBLE ENERGY INC	10/01/2013	2.321	wv	MARSHALL	813	181	1353567
Q079588001	PATRICIA Y DARRAH	NOBLE ENERGY INC	10/09/2013	1.617	wv	MARSHALL	813	183	1353569
			1		<u> </u>		<u> </u>	<u> </u>	
Q079588002	STANLEY DARRAH ET UX	NOBLE ENERGY INC	10/09/2013	1.617	wv	MARSHALL	816	283	1355649
Q079588003	RICHARD DARRAH	NOBLE ENERGY INC	10/09/2013	1.617	WV	MARSHALL	816	302	1355656
Q080156001	DARLA JACKSON ET VIR	NOBLE ENERGY INC	10/14/2013	1.679	wv	MARSHALL	815	531	1355091
Q080156002	LISA SCHULTZ ET VIR	NOBLE ENERGY INC	10/14/2013	1.679	wv	MARSHALL	816	166	1355439
Q079588006	BERNADINE MORGAN	NOBLE ENERGY INC	10/16/2013	1.617	WV	MARSHALL	816	265	1355637
	DANEIL D ROBINSON ET								
0079725000	ux	NOBLE ENERGY INC	10/18/2013	0.925	wv	MARSHALL	812	38	1353102
Q079518000	JOHN H LONG ET UX	NOBLE ENERGY INC	10/18/2013	0.815	wv	MARSHALL	809	636	1352494
	DAWN THOMPSON						1		
Q079516000	TENANT ET VIR	NOBLE ENERGY INC	10/22/2013	0.3091	wv	MARSHALL	809	632	1352491
Q079588005	DAVID A TAKACH ET UX	NOBLE ENERGY INC	10/24/2013	1.617	WV	MARSHALL	816	304	1355657
	DONNA SIDIROPOLIS ET								
Q079588004	VIR	NOBLE ENERGY INC	10/24/2013	1.1617	wv	MARSHALL	816	546	1355933
Q081116000	SHELVA G SMITH ET UX	NOBLE ENERGY INC	11/07/2013	1.441	wv	MARSHALL	816	275	1355643
Q095265001	FORREST O MILLER	NOBLE ENERGY INC	11/11/2013	49.96	w	MARSHALL	815	529	1355090
Q078626006	BARBARA F DANIELS	NOBLE ENERGY INC	11/15/2013	3.545	WV	MARSHALL	813	246	1353654
C078626007	JEFFREY BROOKS	NOBLE ENERGY INC	11/15/2013	3.545	wv	MARSHALL	813	540	1353908
Q078626008	ELAINE WILLIS	NOBLE ENERGY INC	11/15/2013	3.545	WV	MARSHALL	813	542	1353909
Q081130000	CLARA B YOHO	NOBLE ENERGY INC	12/04/2013	0.32	WV	MARSHALL	820	514	1357742
Q081144000	HOWARD N WAYNE ET UX	NOBLE ENERGY INC	12/04/2013	0.31	WV .	MARSHALL	816	532	1355926
Q081139001	WILLEY K NICE	NOBLE ENERGY INC	12/11/2013	0.474	WV	MARSHALL	816	297	1355654
	DELBERT K MYERS JR ET								
Q090332006	UX UX	NOBLE ENERGY INC	12/12/2013	21.49	₩V	MARSHALL	821	34	1357758
Q081864001	CATHERINE R KLUG	NOBLE ENERGY INC	12/12/2013	32.317	WV	MARSHALL	819	349	1356969
Q081864002	DEBRAL RICHEY ET VIR	NOBLE ENERGY INC	12/13/2013	32.317	WV .	MARSHALL	819	347	1356958
	TAMMY L MITCHELL ET								
Q081033000	VIR	NOBLE ENERGY INC	12/17/2013	35.7	wv	MARSHALL	815	176	1355446
Q078626019	FRANCES O HALL	NOBLE ENERGY INC	12/18/2013	3.94	WV	MARSHALL	825	258	1358578
Q097976002	ROBERT M WHITE ET UX	NOBLE ENERGY INC	12/19/2013	7.23	wv	MARSHALL	821	30	1357756
Q097976003	CHARLES G STEIN ET UX	NOBLE ENERGY INC	12/19/2013	0.35	wv	MARSHALL	821	28	1357755
	PATRICIA LOUISE CROW ET					•			
Q081864003		NOBLE ENERGY INC	12/20/2013	32.317	wv	MARSHALL	819	351	1356970
Q078625010	MARILYN ULBRICH	MODIE CHEROCHAR	10 pa base						
QU/6626010	CHALMERS ET VIR BLYE ULBRICH JENSCHKE	NOBLE ENERGY INC	12/31/2013	16,545	wv	MARSHALL	820	506	1357738
Q078626011	ET VIR	NOBLE ENERGY INC	12/31/2013	16.545	wv	MARSHALL	819	305	1365007
Q078626023	BRYCE E ULBRICH ET UX	NOBLE ENERGY INC	12/31/2013	16.545	wv wv	MARSHALL			1356907
Q078626023	H JAY ULBRICH	NOBLE ENERGY INC	12/31/2013	16.545	WV WV	MARSHALL	825 819	298 309	1358697 1356910
		AUDIL LIGNOT INC	1404000	40.34	<u>⊢ ~~ </u>	MARSHALL	619	343	0169551
Q078626013	ROBERT LEE SMITH ET UX	NOBLE ENERGY INC	12/31/2013	16.545	wv	MARSHALL	819	303	1356906
Q078626012	JUSTIN SMITH	NOBLE ENERGY INC	12/31/2013	16.545	wv	MARSHALL	819	303	1356909
	1								
Q078626036	MARTHA FRANCES ULCAK	NOBLE ENERGY INC	01/02/2014	16.545	w	MARSHALL	832	588	1362907
Q082085000		NOBLE ENERGY INC	01/09/2014	0.729	wv	MARSHALL	825	347	1358705
	JOHN DALBAUGH	NOBLE ENERGY INC.					827	164	1359514
0078626021	JOHN DALBAUGH MARY L PARRIOTT	NOBLE ENERGY INC	01/14/2014	6	W۷	MARSHALL	621		
	MARY L PARRIOTT HARRY LEROY PARRIOTT	NOBLE ENERGY INC		6	wv	MARSHALL	627		
Q078626021 Q078626014	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX			6	wv wv	MARSHALL	827	508	1357739
Q078626014	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE	NOBLE ENERGY INC	01/14/2014 01/14/2014	6	wv	MARSHALL	820	508	
Q078626014 Q078626017	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014	6 14,485	wv wv	MARSHALL	820 820	508 516	1357743
Q078626014 Q078626017 Q078626018	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014	6 14,485 6	wv	MARSHALL MARSHALL MARSHALL	820	508	1357743 1358689
Q078626014 Q078626017	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014	6 14,485	wv wv	MARSHALL	820 820	508 516	1357743
Q078626014 Q078626017 Q078626018 Q078626025	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014	6 14,485 6	wv wv wv	MARSHALL MARSHALL MARSHALL	820 820 825	508 516 272	1357743 1358689
Q078626014 Q078626017 Q078626018	MARY L PARRIOTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014	6 14,485 6	wv wv wv	MARSHALL MARSHALL MARSHALL	820 820 825	508 516 272	1357743 1358689
Q078626014 Q078626017 Q078626018 Q078626025 Q078626015	MARY L PARRIGHT HARY LEROY PARRIGHT ET UX SOUTHEASTERN GUIDE DOGS INC IMBERLY D LAKE COURTINEY D HALL DEBORAH D MERCER ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014 01/27/2014	6 14,485 6 15,985	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829	508 516 272 147	1.357743 1.358689 1.361206
Q078626014 Q078626017 Q078626018 Q078626025	MARY L PARRIOTT HARY LERCY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014 01/27/2014	6 14,485 6 15,985	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829	508 516 272 147	1.357743 1.358689 1.361206
0078625014 0078625017 0078625018 0078626025 0078626015 0078626020	MARY L PARRIOTT HARY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KOMBERLY D LAKE COURTINEY D HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRIAH EDWIN LEMASTERS	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014 01/27/2014 01/30/2014 01/30/2014	5 14.485 6 15.985 5 5	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829 829 821 825	508 516 272 147 22 260	1357743 1358689 1361206 1357752 1358673
Q078626014 Q078626017 Q078626018 Q078626025 Q078626015	MARY L PARRIGHT HARY LEROY PARIOTT ET UX SOUTHEASTERN GUIDE DOGS INC MIMBERLY D LAKE COURTINEY D HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRIAN EDWIN LEMASTERS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014 01/27/2014 01/30/2014	6 14,485 6 15,985 6	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829 821	508 516 272 247 22	1357743 1358689 1361206 1357752
Q078626014 Q078626017 Q078626018 Q078626025 Q078626015 Q078626020 Q078526016	MARY L PARRIGHT HARY LEROY PARRIGHT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRIAN EDWIN LEMASTERS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014 01/27/2014 01/20/2014 01/30/2014 01/30/2014	5 14,485 6 15,985 5 5 6	wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829 821 825 825 821	508 516 272 247 22 260 24	1357743 1358689 1361206 1357752 1358679 1357753
Q078626014 Q078626017 Q078626015 Q078626015 Q078626015 Q078626020 Q078626016 Q078626022	MARY L PARRIOTT HARY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTINEY D HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRAAH EDWIN LEMASTERS ET UX TIMOTHY SCOTT LEMASTERS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/13/2014 01/17/2014 01/27/2014 01/27/2014 01/30/2014 01/30/2014 01/30/2014 01/30/2014	6 14,485 6 15,985 6 5 6 5	wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829 821 825 821 825 821 827	508 516 272 147 22 260 24 162	1357743 1358689 1361206 1357752 1358679 1357753 1359513
Q078626014 Q078626017 Q078626018 Q078626025 Q078626015 Q078626020 Q078626016	MARY L PARRIGHT HARY LEROY PARRIGHT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRIAN EDWIN LEMASTERS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	01/14/2014 01/14/2014 01/17/2014 01/17/2014 01/27/2014 01/20/2014 01/30/2014 01/30/2014	5 14,485 6 15,985 5 5 6	wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	820 820 825 829 821 825 825 821	508 516 272 247 22 260 24	1357743 1358689 1361206 1357752 1358679 1357753

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#### Exhibit "A-2" KG Energy II Appalachia, LLC (Leases and Fee)

## MMK0988 MME0345

generation         FTU         None (Degrin LC         COL/COLD         Balance         Col         Data         Data <thdata< th="">         Data         <thdata< th=""> <thda< th=""><th></th><th>1</th><th>·····</th><th>· · · · · · · · · · · · · · · · · · ·</th><th></th><th></th><th></th><th></th><th></th><th></th></thda<></thdata<></thdata<>		1	·····	· · · · · · · · · · · · · · · · · · ·						
GREMANDY         TRUE I SAMPLET IT VAL         FIGHT I SAMPLET IT VAL         FIGHT I SAMPLET IT VALUE         FIGHT I SAMPLET I SAMPLET IN VALUE I SAMPLET I SAMPLET IN VALUE I SAMPLET IN VALUE I SAMPLET IN VALUE I SAMPLET IN VALUE I SAMPLET	0081854010	HARRY LEROY PARRIOTT	NORIE ENERGY INC	00000000	99.947	110/	MARCHAN			1350545
Biologia description         Biologia	4000000		NOBLE ENERGY INC	02/04/2014	32.31/	- wv	MARSHALL		166	1359515
Openational         UNIDE         Description         Cap/Control         Source	Q081864004		NOBLE ENERGY INC	02/04/2014	32.317	wv	MARSHALL	825	345	1358704
Beak Torvini Issuerities         Displace         Displace <thdisplace< th=""> <thdisplace< th=""> <thdisplace< td=""><td>0081864006</td><td></td><td>NORI E ENERGY INC</td><td>mmapma</td><td>33 317</td><td></td><td>MARCUAL</td><td>075</td><td>477</td><td>5350734</td></thdisplace<></thdisplace<></thdisplace<>	0081864006		NORI E ENERGY INC	mmapma	33 317		MARCUAL	075	477	5350734
INCOMP SOTT         ROLE INSPIRE TO         ROLE         ROLE <throle< th="">         ROLE</throle<>			MORE CICIOT INC	02/04/2014	34.31/		MARSHAU	- 045	423	1358721
cpediatedit         LIBANDBERT IVIN         ROUL BREET IVIN         ROUL BREET IVIN         Collaboration         Note         LIBANDBERT IVIN         ROUL BREET IVIN         Collaboration         LIBANDBERT IVIN         Collaboration         Collaboration         LIBANDBERT IVIN         Collaboration         Collaboration         LIBANDBERT IVIN         Collaboration         LIBANDBERT IVIN         Collaboration         LIBANDBERT IVIN <thcollaboration< th=""> <thcollaboration< th=""></thcollaboration<></thcollaboration<>	Q081864005		NOBLE ENERGY INC	02/04/2014	32.317	wv	MARSHALL	825	421	1358720
CORRESSION         LINE MARKET         CALADARIA	0091854011		NOBLE ENERGY INC							
Generation         Desire Administry         Note of basisty is cardyonau         Data Nationau         Display is a second of the second o							the second s			1359511 1359509
OPTRAGE         BETTY AME PARSON         HOUL BREWT MC.         CU/202014         5.41         W/V         MARSHULL         428         136           C082455000         JANY VITE MAJAUNT LW.         NORLE DREWT MC.         CU/202014         D.337         W/V         MARSHULL         427         150         151           C081464031         INCUME DREWT MC.         CU/27/2014         D.337         W/V         MARSHULL         429         141         151           C081464041         INCUME DREWT MC.         CU/27/2014         D.337         W/V         MARSHULL         429         151         151           C08146407         MORLE DREWT MC.         CU/27/2014         D.337         W/V         MARSHULL         429         151         153           C08146407         MORLE DREWT MC.         CU/27/2014         D.337         W/V         MARSHULL         427         51         353           C08146403         MULLAM H WILSON (TTL MORLE DREWT MC.         CU/27/2014         D.337         W/V         MARSHULL         627         51         253         254         254         254         254         255         255         255         255         255         255         255         255         255         255 <t< td=""><td>Q081854012</td><td>PATRICIA PARRIOTT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1361204</td></t<>	Q081854012	PATRICIA PARRIOTT								1361204
OB245500         DAMPY LE MARNI FL         HOLE BRENT IN:         D/2024         D/21         D/21 <thd 21<="" th="">         D/21         D/21</thd>										1360711
Casissedial         Annound Windold FT         Califordial         Califordial <td>08078626027</td> <td>BETTY JANE PARROTT</td> <td>NUBLE ENERGY INC</td> <td>02/18/2014</td> <td>5.44</td> <td><u>wv</u></td> <td>MARSHALL</td> <td>828</td> <td>265</td> <td>1360708</td>	08078626027	BETTY JANE PARROTT	NUBLE ENERGY INC	02/18/2014	5.44	<u>wv</u>	MARSHALL	828	265	1360708
Operational         UK         HORE BENEY INC.         Operational         Part of the part	Q082463D00	DANNY LEE DARRAH ET UX	NOBLE ENERGY INC	02/20/2014	0.738	wv	MARSHALL	827	160	1359512
Objistérija         BICHAD W WOOD ET LK         NORE BERSKY IK         RZ/77014         32.327         WV         MARSHUL         209         123         124           OBJISSÉRIJ         BORRIER JORGEN LORDAN LO RO         BISSE INTERT IK         BAARDIN LISSEN         SALE INTERT IK         BAARDIN LISSEN         BAARDIN LISSEN         SALE INTERT IK         BAARDIN LISSEN         BAARDIN LISSEN         SALE INTERT IK         BAARDIN LISSEN         SALE INTER							1		1	
BININES MONTALTAR         COLL         COLL <thcoll< th="">         COLL         COLL</thcoll<>	Q081864013	UX	NOBLE ENERGY INC	02/27/2014	32.317	WV	MARSHALL	829	145	1361205
BININER SIGNTASTOR         CONTRESSOR         CONTRESSOR <thcontressor< th="">         CONTRESSOR         <thc< td=""><td>Q081864014</td><td>RICHARD W WOODS ET UX</td><td>NOBLE ENERGY INC</td><td>02/27/2014</td><td>32.317</td><td>wv</td><td>MARSHALL</td><td>829</td><td>125</td><td>1361199</td></thc<></thcontressor<>	Q081864014	RICHARD W WOODS ET UX	NOBLE ENERGY INC	02/27/2014	32.317	wv	MARSHALL	829	125	1361199
Desisedary         CARDIS SHYRIS ETVIR         HOME IERREFYIC         GMA/2014         B2.37         VV         MARSHALL         B27         B31         D33           COBISSIOGU         MURINA WINGET KILL         MORE IERREFYIC         GMA/2014         B23.37         VV         MARSHALL         B27         B31         B33           COBISSIOGU         MURINA WINSER         MORE IERREFYIC         GMA/2014         B32.37         VV         MARSHALL         B27         B31         B33           COBISSIOGU         MORTHACTESS MURINE         MORE/2014         B3.37         VV         MARSHALL         B23         B31         B32         B31         B31         B32         B31         B32         B31         B32         B32         B32         B32         B32         B32         B33         B32									1	
OBLISSOOD         WILLIAM HWISON TUX         NORE DRIEDTING         OV/SOUTH         Date         Date <thdate< th="">         Date         Date</thdate<>										1361203
Operated/3         Pennes anover yra         Nonis censor         Nonis censor         Nonis censor         Nonis censor           Operated/3         Pennes anover yra         Nonis censor         Nonis censor         Nonis censor         Nonis censor           Operated/3         Pennes anover yra         Nonis censor         Nonis censor         Nonis censor         Nonis censor           Operated/3         Pennes anover yra         Nonis censor         Nonis censor         Nonis censor         Nonis censor           Operated/3         Pennes anover yra         Nonis censor         Nonis censor         Nonis censor         Nonis censor           Operated/3         Pennes anover yra         Nonis censor         Nonis censor         Nonis censor         Nonis censor         Nonis censor           Operated/3         Pennes anover yra         Nonis censor         Nonis censor <t< td=""><td>0001004007</td><td>CANOLE S MITCHS ET VIK</td><td>NOBLE ENERGY INC.</td><td>03/04/2014</td><td>32.317</td><td>WV</td><td>MARSHALL</td><td>827</td><td>93</td><td>1359426</td></t<>	0001004007	CANOLE S MITCHS ET VIK	NOBLE ENERGY INC.	03/04/2014	32.317	WV	MARSHALL	827	93	1359426
Genzalessis         Huert M. VIENDELL         MORE DESERVINC         BUSITY         MARSHALL         Boy         132         132         132           GENESSEGS         BUTTY MAR FANDER         MORE DESERVINC         GALGADE         3317         WV         MARSHALL         253         644         155           GENESSEGS         DOSI INC.         MORE DESERVINC         GALGADE         15         VV         MARSHALL         253         644         155           GENESSEGS         MURLAN LIN MURLE         MORE DESERVINC         GALGADE         23.117         VV         MARSHALL         253         133         133         133         133         133         133         133         133         133         133         133         133         133         133         135         136         136	Q081864008	WILLIAM H WILSON ET UX	NOBLE ENERGY INC	03/05/2014	32.317	wv	MARSHALL	827	91	1359425
GREISSED         ETT MARE PARKOTT         HOLE DERBY INC         ØNGE/2014         32.317         WY         MASSHALL         829         64         329           C07825222         DOGSINC         MOREL DERBY INC         ØNGE/2014         3.5         WY         MASSHALL         828         531           C078256227         DORSINC         MOREL DERBY INC         ØNGE/2014         53.117         WY         MASSHALL         828         531           C081366231         WILLMM ORVIGELET         NOLE DERBY INC         ØNGE/2012         53.117         WY         MASSHALL         829         531         532           C08136623         MANTO NIMMER, IN NOLE DERBY INC         ØN/20160         32.317         WY         MASSHALL         829         331         335         335         535         532         531         532         MASSHALL         828         531         335         335         335         335         535         533         535         533         535         533         535         533         535         533         535         533         535         533         535         533         535         533         535         533         535         533         533         535							· · · · · · · · · · · · · · · · · · ·			1361197
COPRESCR2         SOUTHLATENN GUIDE         HOULE DERISY INC.         D/G/G/D14         3.5         WV         MARSHALL         6.20         3.5           CORESCR2         FATRICEA MUARGO         MODE DERISEY INC.         B/0/7/2014         52.317         WV         MARSHALL         623         335           CORESCR2         MUMM OWNELL IF         MOLE ENERGY INC.         B/0/7/2014         52.317         WV         MARSHALL         623         333           CORESCR2         SAMACE OVALL         MORE ENERGY INC.         D/0/7/2014         52.317         WV         MARSHALL         623         334         334         344         333         344         344         344         345         469         333         744         AMASHALL         854         469         353         74								····		1361196 1361583
OBSERVOZ         AMARCIA M VANCO         MORE ERREVY INC         DIAD ZA STATULA         BERN TALLAN         BERN TALAN         BERN TALLAN         BERN TALLAN <td></td> <td></td> <td>HODEL CHENOT INC</td> <td>03/00/2024</td> <td>34.311</td> <td></td> <td>WARSHALL</td> <td></td> <td></td> <td>1301303</td>			HODEL CHENOT INC	03/00/2024	34.311		WARSHALL			1301303
WILLIAD VENDELLET         KOBLE ENERGY INC         GL/7/2024         B2.317         WV         MARSHALL         672         215         358           ODBISEG021         MANCE O HALL         KOBLE ENERGY INC         GL/7/2024         B2.317         WV         MARSHALL         622         290         358           OBJESG021         MANCE MALL         KOBLE ENERGY INC         GL/7/2024         B2.317         WV         MARSHALL         623         313         135           OBJESG022         MARTHA LIMMARL         NOBLE ENERGY INC         GL/7/2024         B2.317         WV         MARSHALL         623         1311         135           GRUESGODE         STIPEL ALLERY INC         GL/7/2014         B2.317         WV         MARSHALL         623         1311         135           GRUESGODE         JCRIAN WILSON         NOBLE ENERGY INC         GL/7/2014         B2.317         WV         MARSHALL         623         133         135 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>828</td> <td>305</td> <td>1360725</td>								828	305	1360725
Opensectors         UX         NOBLE PRENEW MC         03/07/2004         32.317         WV         MAREHALL         62.2         115         328           OPENSECSD         FAUNCESD HALL         NOBLE SINERY INC         03/14/0014         3.3         WV         MAREHALL         828         338         338           OPENSECSD         FAUNCESD HALL         NOBLE SINERY INC         03/14/2014         32.317         WV         MARSHALL         828         338         338           OBSISSECOS         MARTINA LINUERD         ITTE ANDER SINERY INC         03/14/2014         32.317         WV         MARSHALL         822         911         335           OBSISSECOS         MARTINA LINUERD         INTER CINERON INC         03/14/2014         32.317         WV         MARSHALL         823         283         335         335           OBSISSECOS         MARTINA LINUERD         NOBLE BREEM INC         03/13/2014         32.317         WV         MARSHALL         823         283         335         335           OBSISSECOS         MARTINA LINUERDE         NOBLE BREEM INC         03/13/2014         32.317         WV         MARSHALL         823         283         335           OBSISSECOS         MARTINA LINUERDE         NOBLE BREE	Q081864017		NOBLE ENERGY INC	03/07/2014	32.317	wv	MARSHALL	829	123	1361198
OPERAGO21         MANN DEMIL ET VIT.         NOBLE PRESERVINC         03/07/2004         22.317         WV         MARSHALL         28.23         299         335           OPERAGEO         MARSHALL         BOBLE BERSTINIC         03/14/2014         32.317         WV         MARSHALL         82.92         133         133         135           ORDISENCEZ         AMRA I MURARE,         NOBLE DERSTINIC         03/14/2014         32.317         WV         MARSHALL         82.90         135         030         135           ORDISENCEZ         AMRA I MURARE,         NOBLE DERSTINIC         03/14/2014         32.317         WV         MARSHALL         82.9         131         135           ORDISENCEZ         LOIRA TIVIE         NOBLE DERSTINIC         03/14/2014         32.317         WV         MARSHALL         828         131         356           ORDISENCEZ         LOIRA TIVIE         NOBLE DERSTINIC         03/14/2014         32.317         WV         MARSHALL         823         136         136         060         136         136         136         136         136         136         136         136         136         136         137         WV         MARSHALL         823         136         136         136<	Q081864018		NOBLE ENERGY INC	03/07/2014	32.317	wv	MARSHAIL	829	115	1361193
OCTABLE DEPROVINC         09/L STREPT INC            ODSTREPHONED INC	Q081864021	MAVIS D KIME ET VIR	NOBLE ENERGY INC				the second s			1360722
OB3384022         AMAL IVILIONI         JOBLE ENDRY INC         OB/JA/2014         32.337         WV         MARSHALL         622         561         135           C033840020         LIX         IN OBLE ENDRY INC         00/JA/2014         32.337         WV         MARSHALL         623         131         135           C03384004         JORIN A MILSON         NOBLE ENDRY INC         00/JA/2014         32.337         WV         MARSHALL         623         233         135         56         460         135         603546014         JORIN A MILSON         NOBLE ENDRY INC         00/JA/2014         32.337         WV         MARSHALL         623         131         135         603584014         JORIN A MILSON         NOBLE ENDRY INC         00/JA/2014         32.337         WV         MARSHALL         623         236         136           C083854015         JATRICA F DAWER ET IN         NOBLE ENDRY INC         00/J3/2014         23.317         WV         MARSHALL         632         236         336           C083854015         JATRICA F DAWER ET IN         NOBLE ENDRY INC         03/J2/2014         32.337         WV         MARSHALL         823         101         355           C083854023         BLASE DOSCH ULCAL JR         NOBLE ENDRY INC				03/13/2014		WV		•		1366317
WALTER CWILSON III ET         OBEL ENERGY INC         00/4/2014         32.337         VV         MARSHALL         622         111         125           OBELSEGOGE         ESTINEL ALLEN ET VIR         NOBLE DERKY INC         00/4/2014         33.337         VV         MARSHALL         625         469         155           OBELSEGOSE         ADMIN AN ILLE         NOBLE DERKY INC         00/14/2014         32.337         VV         MARSHALL         852         253         155           OBELSEGOSE         MONTED ROTH         NOBLE ENERGY INC         00/13/2014         32.337         VV         MARSHALL         852         259         156           OBELSEGOSE         WONTERD ANDER ENERGY INC         00/12/2014         32.317         VV         MARSHALL         852         258         136           OBELSEGOSE         PATECIA F DANIELS FT VIR         NOBLE ENERGY INC         00/12/2014         32.317         VV         MARSHALL         852         258         136           OBELSEGOSE         BLASE JOSEPH ULCALIR         NOBLE ENERGY INC         00/12/2014         22.317         VV         MARSHALL         852         101         356           OBELSEGOSE         DAVIO WILL         NOBLE ENERGY INC         00/22/2014         32.337										1361208
OBSERVED         LX         NOBLE FINERALTY IN         OBJ ////2014         32.317         VV         MMRSHALL         629         111         105           OBSERVED         ENTIRELALENT IN         NOBLE DIRKET VILC         00/1//2014         52.317         VV         MMRSHALL         632         283         135         05           OBSERVED         ENTIRELALENT IN         NOBLE DIRKET VILC         00/1//2014         22.317         VV         MMRSHALL         832         233         135           OBSERVED         MART LIER NAME ET         NOBLE DIRKET VILC         0/1//2014         22.317         VV         MMRSHALL         832         228         135           OBSERVED         VIR         NOBLE DIRKET VILC         0/1/3/2014         32.317         VV         MARSHALL         832         228         335           OBSERVED         BLANKTIN WERDERV         NOBLE ENREY INC         0/2/2/2/2/14         32.317         VV         MARSHALL         822         203         335           OBSERVED         BLANKTIN WERDERV         NOBLE ENREY INC         0/2/2/2/2/14         32.317         VV         MARSHALL         829         101         356           OBSERVED         BLANKTIN VICANIN         NOBLE ENREY INC         0/2/2/2/2/2	CD01004022		RUDLE ENERGY INC	<u>us/14/2014</u>	32,317	+ <del>wv</del>	MARSHALL	828	301	1360724
Obstassed         JOH A WISON         NOBLE ENERGY INC         00/14/2014         22.317         WV         MARSHULL         832         283         113         135           Obstassed/23         WONEDA J ROTTH         NOBLE ENERGY INC         00/14/2014         32.317         WV         MARSHULL         839         107         135         135           Obstassed/23         WONEDA J ROTTH         NOBLE ENERGY INC         00/15/2014         32.317         WV         MARSHULL         839         107         135         136           Obstassed/23         WONEDA J ROTTH         NOBLE ENERGY INC         09/12/2014         32.317         WV         MARSHULL         832         238         136           Obstassed/25         BLZARETIV WERERY         NOBLE ENERGY INC         09/22/2014         32.317         WV         MARSHULL         832         138         136           Obstassed/25         BLASE TOREPLY THUGALR         NOBLE ENERGY INC         09/22/2014         32.317         WV         MARSHULL         832         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136         136 </td <td></td> <td>UX</td> <td></td> <td></td> <td></td> <td></td> <td>MARSHALL</td> <td>829</td> <td>111</td> <td>1361187</td>		UX					MARSHALL	829	111	1361187
Description         Experience         Op/12/2014         22.317         W/V         MARSHALL         B29         113 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1365393</td></t<>										1365393
D093854023         WORDA D.ROTH.         NOBLE REREY INC.         09/15/2014         32.317         WV         MARSHULL         929         107         136           D051854040         V/R         NOBLE REREY INC.         09/12/2014         32.317         WV         MARSHULL         852         229         156           D051856045         PATRICAL PLANELS ET WIL         NOBLE REREY INC.         09/12/2014         32.317         WV         MARSHULL         852         229         136           D091566045         PATRICAL PLANELS ET WIL         NOBLE ENERGY INC.         09/12/2014         32.317         WV         MARSHULL         852         293         136           D091566035         BLASE IDSEPH ULCAKJR.         NOBLE ENERGY INC.         09/12/2004         32.317         WV         MARSHULL         832         939         136           D091566027         HORSERT PHILIPS ET VIL         NOBLE ENERGY INC.         09/12/2004         32.317         WV         MARSHULL         831         62         136           D091566027         JANDAWI ALL         NOBLE ENERGY INC.         09/12/2014         32.317         WV         MARSHULL         833         454         136           D091566034         JANDAWID VILL         NOBLE ENERGY INC.										1362655
Costsecolo         VIR         NOBLE ENERGY INC         09/13/2014         32.317         VV         MARSHALL         832         228         136           Costssecolo         VIR         NOBLE ENERGY INC         09/13/2014         32.317         VV         MARSHALL         832         228         136           Costssecolo         Particlar Enantitis ETVIR         NOBLE ENERGY INC         09/22/2014         32.317         VV         MARSHALL         832         228         136           Costssecolo         BLASE LOSEPH ULCAX.IR         NOBLE ENERGY INC         09/22/2014         32.317         VV         MARSHALL         829         127         136           Costssecolo         BLASE LOSEPH ULCAX.IR         NOBLE ENERGY INC         09/22/2014         32.317         VV         MARSHALL         829         136           Costssecolo         DAVID VM MALL         NOBLE ENERGY INC         09/22/2014         32.317         VV         MARSHALL         833         454         335           Costssecolo         DAVID VM MALL         NOBLE ENERGY INC         09/22/2014         32.317         VV         MARSHALL         833         454         335           Costssecolo         DAVID VM VIL         NOBLE ENERGY INC         09/22/2014 <t< td=""><td></td><td></td><td>and the second se</td><td></td><td></td><td></td><td></td><td><u> </u></td><td>+<u> </u></td><td>. 1361192 1361185</td></t<>			and the second se					<u> </u>	+ <u> </u>	. 1361192 1361185
Opsilserods         PATRICIA F DANTELS FLVR         NOBLE ENERGY INC         09/22/2014         32.317         WV         MARSHALL         836         60         135           0931864035         ELZABETHJ WEERLEY         NOBLE ENERGY INC         09/22/2014         32.317         WV         MARSHALL         832         233           0778526025         ELASE JOSEPH ULCA/JR         NOBLE ENERGY INC         09/22/2014         15.545         WV         MARSHALL         822         101         136           00611554024         KIMDERLY F TRAVIS ET VIR         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         822         101         136           00611554024         KIMDERLY F TRAVIS ET VIR         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         831         62         136           00511564023         DAND W MLL         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         833         65         136           0051156402         DAND WILL         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         833         66         136           00511564031         JBARNA INCARINA         NOBLE ENERGY INC         0						<u> </u>	intribiting.	- <b>*</b>	107	
Q031864035         EUZABETHJ WEERLEY         NOBLE ENERGY INC         09/22/2014         32.317         WV         MARSHALL         832         236           Q078625025         ELASE JOSEFH UILGA/JR         NOBLE ENERGY INC         09/23/2014         15.545         WV         MARSHALL         829         127         326           Q061354024         KMDERLY F TRAVIS EF VIR         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         829         101         326           Q061354024         KMDERLY F TRAVIS EF VIR         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         823         326           Q0613564023         DAVID WHL         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         833         56         326           Q031364023         DAVID WHL         NOBLE ENERGY INC         09/23/2014         32.317         WV         MARSHALL         833         576         326           Q031364024         JAMOTRI DEAVON         NOBLE ENERGY INC         09/21/2014         32.317         WV         MARSHALL         833         576         326           Q031864031         JAMOTRI DEAVON         NOBLE ENERGY INC         04/11/2014         32.317<	Q081854040	VIR	NOBLE ENERGY INC	03/19/2014	32.317	wv	MARSHALL	832	289	1362659
Q031864035         EUZABETHJ WEERLEY         NOBLE ENERGY INC         09/22/2014         32.317         WV         MARSHALL         832         236           Q078625025         ELASE JOSEFH UILGA/JR         NOBLE ENERGY INC         09/23/2014         15.545         WV         MARSHALL         829         127         326           Q061354024         KMDERLY F TRAVIS EF VIR         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         829         101         326           Q061354024         KMDERLY F TRAVIS EF VIR         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         823         326           Q0613564023         DAVID WHL         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         833         56         326           Q031364023         DAVID WHL         NOBLE ENERGY INC         09/23/2014         32.317         WV         MARSHALL         833         576         326           Q031364024         JAMOTRI DEAVON         NOBLE ENERGY INC         09/21/2014         32.317         WV         MARSHALL         833         576         326           Q031864031         JAMOTRI DEAVON         NOBLE ENERGY INC         04/11/2014         32.317<	0081854045	PATRICIA E DANIELS ET VIR	NORIE ENERGY INC	03/72/2014	37 317	MAN	MARCHALL	896	40	1364934
Q078526025         BLASE JOSEPH ULCAKJR         NOBLE ENERGY INC         03/25/2014         15.545         WV         MARSHALL         829         127         138           Q081854024         RIMMERNY FTAAVIS ET VIR.         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         829         101         138           Q081854022         DAVID W HALL         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         829         99         135           Q081854023         DAVID W HALL         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         823         454         136           Q081854023         JDADOX LATM         NOBLE ENERGY INC         03/12/2014         32.317         WV         MARSHALL         823         156         135           Q081854024         JDADOX IF VIR         NOBLE ENERGY INC         04/12/2014         32.317         WV         MARSHALL         823         126         135           Q081864035         MARJONE F LIX NOBLE ENERGY INC         04/12/2014         32.317         WV         MARSHALL         823         126         135           Q081864031         MARSHALL         BEAVGN         NOBLE ENERGY INC         04/1										1362662
OB3154024         KIMBERLY FTRAVIS ET VIR         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         829         101         136           Q831564027         H ROBERT PHILLIPS ET UX.         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         831         662         136           Q831564027         H ROBERT PHILLIPS ET UX.         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         833         652         136           Q831564025         JADIO AW WISON         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         833         656         136           Q831564044         JERNY R BEAVON         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         833         576         335           Q831564044         JERNY R BEAVON         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         833         576         335           Q831564031         JAMES B MILGO FET UX         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         832         226         136           Q831564032         VIR         NOBLE ENERGY INC						1				
ODS1854027         IK POBERT PHILUPS ET UX         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         833         62         338           C051864023         DAVID WI HALL         NOBLE ENERGY INC         03/25/2014         32.317         WV         MARSHALL         823         56         336           C051864023         DAVID WI HALL         NOBLE ENERGY INC         03/21/2014         32.317         WV         MARSHALL         823         454         136           C051864024         MADDOX ET VIR         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         823         560         136           C051864024         MADDOX ET VIR         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         823         566         136           C051864031         MARSHALL         BAST         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         823         265         136           C051864031         MARSHALL         BASTA         NOBLE ENERGY INC         04/31/2014         32.317         WV         MARSHALL         823         265         136           C051864032         MARVIN CWILSON ET UX         NOB	Q078626026	BLASE JOSEPH ULCAK JR	NOBLE ENERGY INC	03/25/2014	16.545	wv	MARSHALL	829	127	1361200
Opsilse4027         H ROBERT PHILLIPS ET UX         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         881         62         1366           Opsilse40023         DAVID W HALL         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         833         454         1365           Opsilse40021         DARDAR LCANNA         NOBLE ENERGY INC         09/25/2014         32.317         WV         MARSHALL         833         454         1365           Opsilse40021         MADDOX ET VIR         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         1365           Opsilse40021         MARSHALL         DAVID W         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         1365           Opsilse40021         MARSHALL         DAVID EVERKY INC         04/11/2014         32.317         WV         MARSHALL         832         245         1365           Opsilse40031         VIRIN         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         832         236         1365           Opsilse40032         VIRI EVINE WILSON ET UX         NOBLE	Q081854024	KIMBERLY F TRAVIS ET VIR	NOBLE ENERGY INC	03/25/2014	32.317	wv	MARSHALL	829	101	1361182
OpenalseAco2s         DAVID W HALL         NOBLE ENERGY INC         03/25/2014         32.337         WV         MARSHALL         829         59         335           C0813864041         BABRARA I.CARNA         NOBLE ENERGY INC         03/27/2014         32.317         WV         MARSHALL         833         454         136           C0813864021         MARDOX ET VIR         NOBLE ENERGY INC         03/31/2014         32.317         WV         MARSHALL         828         260         136           C0813864044         JERNY R BEAVON         NOBLE ENERGY INC         04/11/2014         32.337         WV         MARSHALL         833         606         136           C0813864031         LIRNY R BEAVON         NOBLE ENERGY INC         04/11/2014         32.337         WV         MARSHALL         832         236         136           C0813864031         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         236         136           C0813864031         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         236         136           C0813864023         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014										
OC81864031         BARRAAL LCRRM         NOBLE ENERGY INC         03/27/2014         32.317         WV         MARSHALL         833         454         336           OC81864028         MADDOX ET VIR         NOBLE ENERGY INC         03/31/2014         32.317         WV         MARSHALL         833         576         136           C081864034         MADIORE J BEAVON         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         136           C081864034         JARNES B MIDCAP ET UX         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         832         165         136           C081864031         JARKS B MIDCAP ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           C081864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           C081864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           C081864032         KIP LAYNE WILSON ET UX         NOBLE EN							the second s			1361953
JODI ANN WILSON         NOBLE ENERGY INC         03/31/2014         32.317         WV         MARSHALL         82.8         260         136           Q83184004         JERKY N BEAVON         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         135           Q83184004         JERKY N BEAVON         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         135           Q83184004         JERKY N BEAVON         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         832         236         136           Q831864031         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         236         136           Q831864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         236         136           Q831864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         284         136           Q831864037         VIR         NOBLE ENERGY INC         04/18/2014         32.317	a second de la companya de la compa									1361181 1363474
Openalse4043         MARJORIE J BEAVON         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         135           OB31364044         JERRY R BEAVON         NOBLE ENERGY INC         04/11/2014         32.317         WV         MARSHALL         833         576         136           OC87862031         JAMES B MIDCAP ET UX         NOBLE ENERGY INC         04/11/2014         0.5         WV         MARSHALL         823         165         136           OC81864031         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           OC81864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           Q081864037         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q081864037         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q081364037         VIR         NOBLE ENERGY INC         04/22/2014         32.317			HODEL ENGIGE ATC	03/2//2024	52.517			655		1303474
OD81264004         JERRY R BEAVON         NOBLE ENERGY INC         0a/11/2014         32.317         WV         MARSHALL         835         506         136           Q07826031         JAMES IN JOURLE ENERGY INC         04/11/2014         0.5         WV         MARSHALL         823         1365         136           Q081264031         VIR         MOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         236         136           Q081264032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           Q081264032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           Q081264029         MARVIN C WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q081264033         JJOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q081264032         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/12/2014 <td></td> <td></td> <td></td> <td></td> <td>32.317</td> <td>wv</td> <td>MARSHALL</td> <td>828</td> <td>260</td> <td>1360706</td>					32.317	wv	MARSHALL	828	260	1360706
OQ78626031         JAMÉS B MUDCAP ET UX.         NOBLE ENERGY INC         D4/11/2014         D.S.         WV         MARSHALL         823         165         136           Q081864031         V/R         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         226         136.           Q081864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136.           Q081864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136.           Q081864032         MARVIN C WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136.           Q081864037         V/R         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         829         16         136.           Q081864023         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/12/2014         0.715         WV         MARSHALL         829         16         136.           Q08785003         JUUCILLE E WINGROVE         NOBLE ENERGY INC										1363592
WENDY JO WARSINSKY ET VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         892         236         136           Q081864031         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           Q081864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           Q081864029         MARVIN C WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         234         136           Q081864029         MARVIN C WILSON ET UX         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         235         136           Q081864021         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         832         245         136           Q082545002         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         45         136           Q078526033         LUCILLE E WINGROVE         NOBLE ENERGY INC						• • • • • • • • • • • • • • • • • • • •				1364890 1361213
Q081864032         KIP LAYNE WILSON ET UX         NOBLE ENERGY INC         D4/18/2014         32.317         WV         MARSHALL         632         224         136           Q081864032         MARVIN C WILSON ET UX         NOBLE ENERGY INC         D4/18/2014         32.317         WV         MARSHALL         632         136           Q081864037         WIR         NOBLE ENERGY INC         D4/18/2014         32.317         WV         MARSHALL         832         285         136           Q081864037         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q081864037         VIR         NOBLE ENERGY INC         04/12/2014         32.317         WV         MARSHALL         832         285         136           Q082345002         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         829         45         136           Q078626033         LUCILE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626033         LVANT / SNYDER         NOBLE ENERGY INC         04/22/2014         1.5 <td< td=""><td></td><td></td><td>- HOLL LILLIOT MC</td><td>04141014</td><td></td><td></td><td>ALCONAL.</td><td>625</td><td>405</td><td>1301213</td></td<>			- HOLL LILLIOT MC	04141014			ALCONAL.	625	405	1301213
Q081864029         MARVIN CWILSON ET UX         NOBLE ENERGY INC         D4/18/2014         32,317         WV         MARSHALL         829         632         136           Q081864037         VIR         NOBLE ENERGY INC         04/18/2014         32,317         WV         MARSHALL         832         285         136           Q081864037         VIR         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         832         285         136           Q083451000         HAROLD S YOUNG ET UX         NOBLE ENERGY INC         04/22/2014         0.32         WV         MARSHALL         829         16         136           Q078626033         LUCILE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626032         KENNETH MORRIS ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626032         JANICE R CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         136           Q077856003         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014	Q081864031	Vir	NOBLE ENERGY INC	04/18/2014	32.317	wv	MARSHALL	832	236	1362587
Q081864029         MARVIN CWILSON ET UX         NOBLE ENERGY INC         D4/18/2014         32,317         WV         MARSHALL         829         632         136           Q081864037         VIR         NOBLE ENERGY INC         04/18/2014         32,317         WV         MARSHALL         832         285         136           Q081864037         VIR         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         832         285         136           Q083451000         HAROLD S YOUNG ET UX         NOBLE ENERGY INC         04/22/2014         0.32         WV         MARSHALL         829         16         136           Q078626033         LUCILE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626032         KENNETH MORRIS ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626032         JANICE R CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         136           Q077856003         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014	0091954097	VID LAVNE WILSON ET LIV	MODIE ENERGY INC	04/10/1014	33.947					1000000
BERTHA LYNN KLUG FT         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q082345002         JOSEFH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         832         285         136           Q082345002         JOSEFH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         829         16         136           Q083451000         HAROLD S YOUNG ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         45         136           Q078626033         LUICILE F WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626034         JANICY E ROROUK FT IN         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         136           Q078626034         JUNE ROROUK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         136           Q077856003         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014         <	10001000032	ON STREET BURNING STREET	HOULE CHEROI INC	07/10/2019	34.51/	wv	MARSHALL	532	434	1362585
Q061864037         VIR         NOBLE ENERGY INC         04/18/2014         32.317         WV         MARSHALL         832         285         136           Q082345002         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         829         16         136           Q083451000         HAROLD S YOUNG ET UX         NOBLE ENERGY INC         04/22/2014         0.32         WV         MARSHALL         828         252         136           Q078626033         LUCILE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         336           Q078626032         KENNETH MORRIS ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         336           Q078626034         JANICE R CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         1366           Q077856002         JUME MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         56         1366           Q083768002         JUME MORRIS         NOBLE ENERGY INC         04/22/2014	Q081864029		NOBLE ENERGY INC	04/18/2014	32.317	wv	MARSHALL	829	632	1361582
Q082345002         JOSEPH M GRAY ET AL         NOBLE ENERGY INC         04/22/2014         0.715         WV         MARSHALL         829         16         136           Q083451000         HAROLD S YOUNG ET UX         NOBLE ENERGY INC         04/22/2014         0.32         WV         MARSHALL         829         16         136           Q078526033         LUCILLE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         45         136           Q078626032         KENNETH MORRIS ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626034         LANICE A CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         60         136           Q077858002         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         167         136           Q087785002         JUNE MORRIS         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         821         136           Q08376802         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7<	00000000									
QDB3451000         HAROLD S YOUNG ET UX         NOBLE ENERGY INC         04/22/2014         0.32         WV         MARSHALL         828         252         136           QD78526033         LUCILE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         45         136           QD78526032         KENNETH MORKS ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           QD78526032         JUCILE E ROROK FT UN         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         60         136           QD78526035         NANCY I SNYDER         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         60         136           QD78526035         JUNE MORALS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         56         136           QD78526035         JUNE MORALS         NOBLE ENERGY INC         04/22/2014         100.7         WV         MARSHALL         831         56         136           QD83768001         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014										1362657 1361107
Q078626033         LUCILLE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         82.9         45         136.           Q078626033         LUCILLE E WINGROVE         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         82.9         43         136.           Q078626034         JANICE R CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         60         136.           Q078626034         JANICY I.SNYDER         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         136.           Q078526035         NAMCY I.SNYDER         NOBLE ENERGY INC         04/22/2014         100.7         WV         MARSHALL         831         167         136.           Q083768004         FERN A PICKENPAUGH         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136.           Q083768001         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         136.           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014 <td>- unartout</td> <td>THE REAL PROPERTY AND A DESCRIPTION OF THE PROPERTY AND A DESCRIPTION OF T</td> <td>HOME LITERAL INC.</td> <td>V-122/2014</td> <td>V./13</td> <td>- <del>"</del></td> <td>MANJALL</td> <td>023</td> <td>- 10</td> <td>1201101</td>	- unartout	THE REAL PROPERTY AND A DESCRIPTION OF THE PROPERTY AND A DESCRIPTION OF T	HOME LITERAL INC.	V-122/2014	V./13	- <del>"</del>	MANJALL	023	- 10	1201101
Q078626032         KENNETH MORRIS ET UX         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         829         43         136           Q078626034         JANICE A CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         60         136           Q078626034         JANICE A CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         60         136           Q077358002         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         56         136           Q083768002         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         167         136           Q083768001         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136           Q083768015         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         136           Q083768015         VIR         NOBLE ENERGY INC         04/25/2014         100.7										1360702
Q078626034         JANICE & CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         B31         60         136           Q078626035         NAMCY I.SINTDER         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         B31         56         136           Q078526035         UNE MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         56         136           Q083768004         FERN A PICKENPAUGH         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         167         136           Q083768004         SAMARY E VOLTZ ET VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         841         82         136           Q083768001         SAMARA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         136           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7	Q078526033	LUCILLE E WINGROVE	NOBLE ENERGY INC	04/22/2014	1.5	wv	MARSHALL	829	45	1361113
Q078626034         JANICE & CROOK ET VIR         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         B31         60         136           Q078626035         NAMCY I.SINTDER         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         B31         56         136           Q078526035         UNE MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         831         56         136           Q083768004         FERN A PICKENPAUGH         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         167         136           Q083768004         SAMARY E VOLTZ ET VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         841         82         136           Q083768001         SAMARA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         136           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7	0078626032	KENNETH MORRIS ET IN	NOBLE ENERGY INC	04/22/2014	15	WAY	MARSHATT	879	53	1361111
00786256035         NANCY L SNYDER         NOBLE ENERGY INC         04/22/2014         1.5         WV         MARSHALL         831         56         136           Q077358002         JUNE MORRIS         NOBLE ENERGY INC         04/22/2014         2         WV         MARSHALL         821         26         136           Q083768002         FERN PAUGH         NOBLE ENERGY INC         04/22/2014         100.7         WV         MARSHALL         823         1457         1365           Q083768003         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         841         82         1357           Q083768001         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         1357           Q083768001         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         1367           Q0837680015         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         1367           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7 <t< td=""><td>Q078626034</td><td></td><td>NOBLE ENERGY INC</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1361952</td></t<>	Q078626034		NOBLE ENERGY INC							1361952
O083768004         FERN A PICKENPAUGH         NOBLE ENERGY INC         D4/25/2014         100.7         WV         MARSHALL         831         167         136           O683768029         MARY E VOLTZ ET VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         841         82         136           O683768029         MARY E VOLTZ ET VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         841         82         136           O633768010         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136           O633768016         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         136           O083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         136           O083768025         VIR         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         840         291         136           O833768015         IX         NOBLE ENERGY INC         04/30/2014         100.7         W			NOBLE ENERGY INC	04/22/2014	1.5	wv	MARSHALL	831	56	1361951
Opsisteso29         MARY E VOLTZ ET VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         841         62         136.           Opsisteso29         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136.           Opsisteso29         WIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136.           Opsisteso29         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         136.           Opsisteso29         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         136.           Opsisteso29         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         136.           Opsisteso21         VIR         NOBLE ENERGY INC         04/30/2014         1078.9103         WV         MARSHALL         840         291         136.           Opsisteso25         IX         NOBLE ENERGY INC         04/30/2014         100.7         WV										1361110
ODB3768001         SANDRA WINSLOW         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         831         54         136:           ODB3768001         BETTY JUNE CAMPBELL ET         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         136:           JUDY ANN MCCHESKEY ET         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         834         632         136:           Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         840         291         136:           Q083442000         RESOURCES INC ET AL.         NOBLE ENERGY INC         04/25/2014         100.7         WV         MARSHALL         829         157         136:           Q083442001         RESOURCES INC ET AL.         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         822         280         136:           Q083468035         ETTA J WERKLEY ET VIR         NOBLE ENERGY INC         05/02/2014         32.317         WV         MARSHALL         834         634         136:           Q083368017         LAMOYNE 5 BALER         NOBLE E										1362097 1367521
BETTY JUNE CAMPBELL ET VIR         VIR         NOBLE ENERGY INC         04/25/2014         100,7         WV         MARSHALL         834         632         136/ 136/ 136/ 136/ 136/ 136/ 136/ 136/	Q083758001	SANDRA WINSLOW								1361948
JUDY ANN MCCHESKEY ET         NOBLE ENERGY INC         04/25/2014         300.7         WV         MARSHALL         840         291         1367           Q083766025         VIR         NOBLE ENERGY INC         04/25/2014         300.7         WV         MARSHALL         840         291         1367           Q083766025         RESOURCES INC ET AL         NOBLE ENERGY INC         04/30/2014         1078.9103         WV         MARSHALL         829         157         1367           Q083766015         LDX         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         832         580         1367           Q083768015         LDX         NOBLE ENERGY INC         05/02/2014         32.317         WV         MARSHALL         832         291         1367           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         834         634         1367           Q083768015         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         1367           Q083566019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHA				04 MP 1-44	405-5					
Q083768025         VIR         NOBLE ENERGY INC         04/25/2014         300,7         WV         MARSHALL         840         291         1367           Q083768025         VIR         NOBLE ENERGY INC         04/30/2014         1078.9103         WV         MARSHALL         840         291         1367           Q083768015         RESOURCES INCE FT AL         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         829         157         1367           Q083768015         IX         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         832         580         1367           Q083768015         IX         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         832         291         1367           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/02/2014         100.7         WV         MARSHALL         834         634         1364           Q0833768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         834         634         1364           Q0833768019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV<			NUDLE ENERGY INC	U4/25/2014	100,7	- WV	MARSHALL	834	652	1364223
Q083442000         RESOURCES INC ET AL         NOBLE ENERGY INC         D4/30/2014         1078.9103         WV         MARSHALL         829         157         1367           Q083462000         RESOURCES INC ET AL         NOBLE ENERGY INC         D4/30/2014         100.7         WV         MARSHALL         832         580         1367           Q083768015         LIX         NOBLE ENERGY INC         D4/30/2014         100.7         WV         MARSHALL         832         280         1367           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         834         634         1367           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         834         634         1367           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         1367           Q083768019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         1367           Q081364038         DEBORAH L LATHROP         NOBLE ENERGY INC         05/07/2014		VIR	NOBLE ENERGY INC	04/25/2014	300.7	wv	MARSHALL	840	291	1367198
NORMAN L DERROW ET         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         832         580         136           Q083768013         ETAL WEEKLEY ET VIR         NOBLE ENERGY INC         05/02/2014         32,317         WV         MARSHALL         832         291         136           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/02/2014         100.7         WV         MARSHALL         832         291         136           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/02/2014         100.7         WV         MARSHALL         834         634         136           Q083768019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         136           Q083768013         UR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         136           Q083664038         DEBORAH L LATHROP         NOBLE ENERGY INC         05/07/2014         32.317         WV         MARSHALL         832         287         1367	00000									
Q083768015         UX         NOBLE ENERGY INC         04/30/2014         100.7         WV         MARSHALL         832         580         1363           Q081364035         ETTA J WEKLEY ET VIR         NOBLE ENERGY INC         05/02/2014         32.317         WV         MARSHALL         832         291         1363           Q083568017         LAMOYNE S BALERER         NOBLE ENERGY INC         05/02/2014         300.7         WV         MARSHALL         832         291         1363           Q083568017         LAMOYNE S BALERER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         834         634         1364           Q083568019         MARTHAJ JAMISON ET         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         1364           Q083664038         DEBORAH L LATHROP         NOBLE ENERGY INC         05/07/2014         32.317         WV         MARSHALL         832         287         1363	4003442000		NUBLE ENENGY INC	04/50/2014	10/6.9103	V	MARSHALL	829		1361211
Q08186403S         ETTA J WEEKLEY ET VIR         NOBLE ENERGY INC         05/02/2014         32.317         WV         MARSHALL         832         291         136.           Q083768017         LAMOYNE S BAKER         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         834         634         136.           Q083768019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         136.           Q083768019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         835         38         136.           Q081864038         DEBORAH L LATHROP         NOBLE ENERGY INC         05/07/2014         32.317         WV         MARSHALL         832         287         136.7	Q083768015	UX	NOBLE ENERGY INC	04/30/2014	100.7	wv	MARSHALL	832	580	1362894
MARTHAJ JAMISON ET         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         136/           Q083768019         VIR         NOBLE ENERGY INC         05/05/2014         100.7         WV         MARSHALL         836         38         136/           Q081864038         DEBORAH L LATHROP         NOBLE ENERGY INC         05/07/2014         32.817         WV         MARSHALL         832         287         136/	Q081864035	ETTA J WEEKLEY ET VIR	NOBLE ENERGY INC	05/02/2014	32,317	WV	MARSHALL	832	291	1362661
Q083768019         VIR         NOBLE ENERGY INC         05/06/2014         100.7         WV         MARSHALL         836         38         136/           Q081864038         DEBORAH L LATHROP         NOBLE ENERGY INC         05/07/2014         32.317         WV         MARSHALL         832         287         136/	Q083768017		NOBLE ENERGY INC	05/05/2014	100.7	wv	MARSHALL	834	634	1364224
Q081864038 DEBORAH L LATHROP NOBLE ENERGY INC 05/07/2014 32.317 WV MARSHALL 832 287 1362	0083768019		NOBLE ENERGY INC	05/06/2014	100.7		MARCHATI	926	20	1364933
										1364933
		KERMIT REED HUBBS ET								
										1362095
										1362096 1366470
MARY S FOGLESONG ET				V0/V0/2014		- "V	march HALL			2300470
Q083768021 VIR NOBLE ENERGY INC 05/09/2014 100.7 WV MARSHALL 837 352 1363	0083768021	ViR	NOBLE ENERGY INC	05/09/2014	100.7	wv	MARSHALL	837	352	1365788

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#### Exhibit "A-2" HG Energy II Appaischis, LLC (Leases and Fee)

Q089768030	UX SONDRA SUE RULONG ET	NOBLE ENERGY INC	05/09/2014	100,7	wv	MARSHALL	842	510	136
Q083768006	VIR	NOBLE ENERGY INC	05/13/2014	100.7	wv	MARSHALL	832	230	136
0083768010	JAMES A KOLL	NOBLE ENERGY INC	05/13/2014	100.7	WV	MARSHALL	832	584	135
0083768011	MICHAEL W DERROW	NOBLE ENERGY INC	05/13/2014	100,7	WV	MARSHALL	833	464	136
Q083768028 Q083768005	STEVEN S DERROW	NOBLE ENERGY INC	05/13/2014	100.7	WV	MARSHALL	842	24	136
0083/68005	JEAN GAUTHIER	NOBLE ENERGY INC	05/14/2014	100,7	wv	MARSHALL	832	228	136
0081864064	MARY E LAMBERT ET VIR PHYILLIS JEAN	NOBLE ENERGY INC	65/14/2014	32.317	wv	MARSHALL	851	202	137
Q083768009	OSTRANDER WILLIAM L WILLIAMS ET	NOBLE ENERGY INC	05/15/2014	100.7	wv	MARSHALL	833	472	136
Q083768012	UX	NOBLE ENERGY INC	05/15/2014	1 100.7					
Q081864039	EULA MARIE JOHNSON	NOBLE ENERGY INC	05/15/2014	100.7	<u>wv</u>	MARSHALL	833	574	136
Q081864042	EMMA LOU HIGGS	NOBLE ENERGY INC	05/21/2014	32.317	<u>wv</u>	MARSHALL	832	582	136
Q081864033	SHARON S WILSON	NOBLE ENERGY INC	05/21/2014	32.317	wv	MARSHALL	833	578	136
0083765008	CHARLOTTE A MERSELIS ET VIR	NOBLE ENERGY INC	05/22/2014	100.7	w	MARSHALL	832	295	136
0083768024	JIMMIE WILLIAMS ET UX	NOBLE ENERGY INC	05/22/2014	100.7	w	MARSHALL	837	143	136
0083768007	VERA SKIRLENE WORKMAN ET VIR	NOBLE ENERGY INC	05/28/2014	100.7	wv	MARSHALL	832	232	136
Q085150002	ROBERT ROSS ET UX	NOBLE ENERGY INC	05/29/2014	0.48	wv	MARSHALL	833	501	136
Q085150003	ERMA CARNEY	NOBLE ENERGY INC	05/30/2014	0.48	wv	MARSHALL	833	496	1363
Q085150001	MICKEY L WHITE ET UX	NOBLE ENERGY INC	06/03/2014	0.48	wv	MARSHALL	833	503	1363
Q083768013	<b>XELLY KERN</b>	NOBLE ENERGY INC	06/04/2014	100.7	wv	MARSHALL	863	189	
Q083768014	SHIRLEY GBUR	NOBLE ENERGY INC	06/04/2014	100.7	wv	MARSHALL	863	189	1379
			1		1		- 003	+	1- 10/5
Q083758026	PENNY S SCHAUER ET VIR	NOBLE ENERGY INC	06/05/2014	100.7	wv	MARSHALL	842	7	1368
Q083768027	TRACI L WILLIAMS	NOBLE ENERGY INC	06/05/2014	100.7	wv	MARSHALL	842	9	1368
0085150004	TWILA ADAMS	NOBLE ENERGY INC	06/12/2014	0.48	WV	MARSHALL	833	486	1363
Q085150005	CONNIE CURRENT	NOBLE ENERGY INC	06/18/2014	0.48	wv	MARSHALL	834	486	
Q083768018	HONUS ADAIR STOLLAR	NOBLE ENERGY INC	06/25/2014	100.7	wv	MARSHALL	834	36	1363
Q085232000	PAUL W BARRETT	NOBLE ENERGY INC	06/25/2014	0.16	wv	MARSHALL	836	469	
Q065438001	JUNE MORRIS	NOBLE ENERGY INC	06/26/2014	0.379	wv	MARSHALL	863	469	1366
Q085438005	JOHN PERSINGER ET UX	NOBLE ENERGY INC	06/26/2014	0.379	wv	MARSHALL	803	628	
Q085438007	JAMES PERSINGER ET UX	NOBLE ENERGY INC	06/30/2014	0.379	wv	MARSHALL	834	630	1364
Q085438002	EARNIE RUSSELL JOHNSON	NOBLE ENERGY INC	07/03/2014	0.379	wv	MARSHALL	835	630	1364
Q085438003	RODNEY PERSINGER	NOBLE ENERGY INC	07/03/2014	0.379	wv	MARSHALL	835	<u>602</u> 504	1364
Q085438008	KATHY WENDEL	NOBLE ENERGY INC	07/03/2014	0.379	WV	MARSHALL	835	626	
	RONALD R JOHNSON ET		1			ANALISTICALL	0.54	020	1364
Q085438004	UX	NOBLE ENERGY INC	07/08/2014	0.379	wv	MARSHALL	835	612	1364
0081864047	FRANCIS GLEN WILSON BARBARA SUE SHANK	NOBLE ENERGY INC	07/08/2014	32,317	wv	MARSHALL	839	208	1364
0085438006	NICE ET VIR	NOBLE ENERGY INC	07/08/2014	0.379	wv	MARSHALL	835	592	1364
Q085150006	NANCY BRUMBAUGH	NOBLE ENERGY INC	07/10/2014	0.48	wv	MARSHALL	836	451	1365
	WILLIAM MICHAEL		0//2024	0.48		MANSHALL	630	451	1365
Q085438009	ANDERSON ET UX ROBERT PATRICK	NOBLE ENERGY INC	07/10/2014	0.379	wv	MARSHALL	836	471	1365
Q085438011	ANDERSON ET UX	NOBLE ENERGY INC	07/10/2014	0.379	wv	MARSHALL	839	225	1366
Q085150008	NORA RICH WOOD DEBRA ANN BUTCHER ET	NOBLE ENERGY INC	07/13/2014	0.48	wv	MARSHALL	839	196	1366
Q078626037	VIR	NOBLE ENERGY INC	07/17/0014						
0081864048	GARY F RIST	NOBLE ENERGY INC	07/17/2014	3,44	WV	MARSHALL	839	215	1366
Q081864049	MARY E RIST	NOBLE ENERGY INC	07/17/2014	32.317	WV	MARSHALL	841	478	1367
0081864050	PENNY JO ADAMS	NOBLE ENERGY INC	07/17/2014	32,317	WV	MARSHALL	841	476	1367
Q081864051	WILLIAM RIST	NOBLE ENERGY INC	07/17/2014	32.317	wv	MARSHALL	841	474	1367
Q081864058	PATRICIA A LIBB ET VIR	NOBLE ENERGY INC	07/17/2014	32.317	<u>wv</u>	MARSHALL	841	472	1367
Q085150012	BOBBIE SUE WOOD	NOBLE ENERGY INC	07/17/2014	32.317	wv	MARSHALL	844	462	1369
	JOHN DALE ANDERSON ET	NODLE ENERGY INC	07/17/2014	0.48	WV	MARSHALL	839	204	13664
Q081864060		MODIE ENERGY INC	00 Ha barr						
Q085150007	UX CECILA TRUAX	NOBLE ENERGY INC NOBLE ENERGY INC	07/18/2014	32.317		MARSHALL	843	238	1368
Q085150007 Q085438010	ERNEST BLAKE ET UX	NOBLE ENERGY INC	07/18/2014	0.48	WV	MARSHALL	836	453	1365
Q085150013	NIKA WOOD	NOBLE ENERGY INC		0.379	WV	MARSHALL	839	222	13664
Q085150009	JOSEPH WOOD	NOBLE ENERGY INC	07/18/2014	0.48	WV	MARSHALL	839	220	1366
		HODIE ERENAT INC	07/23/2014	0.48	wv	MARSHALL	839	198	13664
0085150011	SAM NICKI WOOD ET UX	NOBLE ENERGY INC	07/24/2014	0.48			0.00		
Q081864052	MARY E TINGLER ET VIR	NOBLE ENERGY INC	07/25/2014	32.317	WV WV	MARSHALL MARSHALL	839	202	13664
2087970009	WILLIAM R DUNLAP	NOBLE ENERGY INC	07/25/2014	0.886			843	229	1368
	PATRICIA ANN BELCH ET				wv	MARSHALL	842	30	1368;
Q087970011	VIR LINDA DIANE BROWN ET	NOBLE ENERGY INC	07/25/2014	0.886	wv	MARSHALL	841	78	1367
Q087970012	VIR	NOBLE ENERGY INC	07/25/2014	0.886	WV	MARSHALL	841	468	13679
Q085150010	CHARLES JAN WOOD	NOBLE ENERGY INC	07/30/2014	0.48	wv	MARSHALL	839	200	13664
Q085150014	BILL LEANNE WOOD ET UX	MODIE PURPOS			1				
Q085150014 Q087970007	DAVID E RIEL	NOBLE ENERGY INC NOBLE ENERGY INC	07/31/2014	0.48	WV	MARSHALL	841	360	13678
Q087970008	ALICE E DUNLAP	NOBLE ENERGY INC	08/05/2014	0.886	wv	MARSHALL	842	40	13681
	THE L DUNLAR	NOUL ENERGY INC.	08/05/2014	0,886		MARSHALL	842	36	13681
Q087970010	LARRY W DUNLAP ET UX	NOBLE ENERGY INC	08/05/2014	0.886	I				
0087970014	DAVID E RIEL	NOBLE ENERGY INC			WV	MARSHALL	842	32	13681
Q087970015	ALICE E DUNLAP	NOBLE ENERGY INC	08/12/2014 08/12/2014	0.94	WV .	MARSHALL	842	5	13681
		NUME CREAT INL	voj 14 2014	0.94	wv	MARSHALL	842	26	13681
Q087970013	LARRY W DUNLAP ET UX	NOBLE ENERGY INC	69 /13 /3 /3 /3 /						
Q086805002	MARY E BASSETT	NOBLE ENERGY INC	08/12/2014	0.94		MARSHALL	841	25	13674
	CHARLES HOWARD	WORLD ENCRUSTING	08/14/2014	135		MARSHALL	841	362	13678
Q086805004	BASSETT JR ET UX	NOBLE ENERGY INC	08/14/2014	135	wv	MARSHALL	842	1	13681
Q086605011	BARBARA KAY EWING ET	NOBLE ENERGY INC	08/24/2014	135	wv	MARSHALL	842	34	13681
Q087970016	LINDA DIANE BROWN ET	NOBLE ENERGY INC	08/15/2014	0,94	wv	MARSHALL	841	470	13679
Q087970017	PATRICIA ANN BELCH ET VIR	NOBLE ENERGY INC	08/15/2014	0.94	wv	MARSHALL	841	464	13679
	WILLIAM R DUNLAP	NOBLE ENERGY INC	08/15/2014	0.94	wv	MARSHALL	841	214	13679
0087970018		NOSLE ENERGY INC	06/13/2014		+	10010010000			
Q087970018 Q085150019	THOMAS BETH WOOD ET	NOBLE ENERGY INC	08/15/2014	0.48	wv	MARSHALL	844	454	13695

#### Exhibit "A-2" HG Energy II Appelachia, LLC (Lossos and Fee)

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0086805003	RUTH ANN WALLACE ET				1		1	1	
	Vir	NOBLE ENERGY INC	08/19/2014	135		MARSHALL	841	364	1367827
0086805006	ROBERT B THOMAS ET UX	NOBLE ENERGY INC	08/19/2014	135	wv	MARSHALL	842	28	1368131
Q086805010	JEAN CTHOMAS RUTH E BASSETT	NOBLE ENERGY INC	08/20/2014	135	- wv	MARSHALL	841	449	1367942
Q086805005	MEADOWS ET VIR	NOBLE ENERGY INC	08/20/201A	135	wv	MARSHALL	842	38	1368135
Q086805007	ELIZABETH A STRAUSBAUGH ET VIR	NOBLE ENERGY INC	08/20/2014	135	w	MARSHALL	841	370	1367833
Q086805009	JANET BLANKENSHIP ET VIR	NOBLE ENERGY INC	08/20/2014	135	wv	MARSHALL	841	368	1367830
Q083768031	JACK M FOREMAN	NOBLE ENERGY INC	08/21/2014	100.7	wv	MARSHALL	844	131	1369335
Q081864053	JESSE A WILSON	NOBLE ENERGY INC	08/23/2014	32.317	WV	MARSHALL	842	47	1368140
Q081864055	TROY T WILSON	NOBLE ENERGY INC	08/23/2014	32.817	wv	MARSHALL	842	51	1368144
Q081864056	ELLA J MCCARDLE ET VIR KIMBERLY S PIERSON ET	NOBLE ENERGY INC	08/23/2014	32.317	wv	MARSHALL	842	55	1368146
Q081864057	ViR	NOBLE ENERGY INC	08/23/2014	32.317	wv	MARSHALL	842	53	1368120
Q081864059	BLAINE M SCHON ET UX	NOBLE ENERGY INC	08/26/2014	32,317	WV	MARSHALL	843	235	1368366
Q085150015	RONALD L NESTOR	NOBLE ENERGY INC	08/29/2014	0.48		MARSHALL	842	347	1368586
0085150016	KAREN L RIDENOUR ET UX CYNTHIA P HOPKINS	NOBLE ENERGY INC	08/29/2014	0.48	wv	MARSHALL	842	349	1368587
0086805008	REVOCABLE TRUST UTA	NOBLE ENERGY INC	09/03/2014	135	wv	MARSHALL	841	366	1367828
Q081864054	APRIL D HOGAN ET VIR	NOBLE ENERGY INC	09/03/2014	32.317	WV	MARSHALL	842	49	1368143
0085150017	CRYSTAL KOSKY ET VIR	NOBLE ENERGY INC	09/05/2014	0.48	wv	MARSHALL	842	351	1368588
0087970005	LARRY W DUNLAP ET UX WEST VIRGINIA	NOBLE ENERGY INC	09/08/2014	1.825	wv	MARSHALL	845	17	1370410
	DEPARTMENT OF		[		1	l		[	1
Q088417001	TRANSPORTATION	NOBLE ENERGY INC	09/09/2014	23.53	wv	MARSHALL	845	332	1370109
0087970001	DAVID E RIEL	NOBLE ENERGY INC	09/09/2014	1.826	WV	MARSHALL	842	514	1368695
Q087970003	ALICE E DUNLAP	NOBLE ENERGY INC	09/09/2014	1.825	wv	MARSHALL	842	495	1368686
	PEGGIANN E MOSKER ET	MODI F PAPPAGATA	00 H = H =						
Q074548004 Q074548002	VIR LOIS J LAND ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	09/10/201A 09/10/2014	24.6 24.6	wv	MARSHALL	842 842	508 500	1368692 1368688
Q074548003	JAMES N OLIVER	NOBLE ENERGY INC	09/10/2014	24.6	WV	MARSHALL	842	500	1368689
Q074648005	JOHN E OLIVER ET UX	NOBLE ENERGY INC	09/10/2014	24.5	WV	MARSHALL	842	498	1368687
Q085150018	TERRY GRAY	NOBLE ENERGY INC	09/11/2014	0.48	WV	MARSHALL	842	361	1368594
Q087970002	PATRICIA ANN BELCH ET VIR	NOBLE ENERGY INC	09/12/2014	1.826	wv	MARSHALL	842	504	1368690
Q087970004	WILLIAM R DUNLAP LINDA DIANE BROWN ET	NOBLE ENERGY INC	09/12/2014	1_825	wv	MARSHALL	844	530	1369702
0087970005	VIR	NOBLE ENERGY INC	09/12/2014	1.826	wv				4000000
Q083768034	JULIE SPRINGWATER	NOBLE ENERGY INC	09/17/2014	100.7	wv	MARSHALL	844 850	522 491	1369698 1372583
Q083768036	JACK M FOREMAN	NOBLE ENERGY INC	09/18/2014	100.7	wv	MARSHALL	850	503	1372589
	MARY ELIZABETH VOLTZ								
Q083768039	ET VIR	NOBLE ENERGY INC	09/24/2014	100.7	wv	MARSHAU	850	548	1372811
Q083768033 Q081864062	REVA J KARD ET VIR DINA A YOUTZ ET VIR	NOBLE ENERGY INC	09/24/2014	100.7	WV	MARSHALL	844	526	1369700
Q081864061	C RICHARD WILSON	NOBLE ENERGY INC NOBLE ENERGY INC	09/27/2014 10/07/2014	32.317 32.317	- <del>wv</del>	MARSHALL MARSHALL	850 850	497 493	1372586 1372584
Q083768043	ROY JOSEPH LEACH	NOBLE ENERGY INC	10/10/2014	100.7	w	MARSHALL	859	495	1377698
Q074648006	CRISTI LANAGHAN ET VIR	NOBLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	845	327	1370567
Q074648007 Q074648008	JANET MILLER ET VIR JOAN KIDD ET VIR	NOBLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	846	325	1370566
		NOBLE ENERGY INC	10/14/2014	24.6	wv.	MARSHALL	846	329	1370570
Q074648009	KENNETH E OLIVER ET UX LAWRENCE K OLIVER II ET	NOBLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	845	323	1370565
Q074548011	ນກ	NOBLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	849	645	1372129
Q083768032	DOUGLAS E MILLER	NOBLE ENERGY INC	10/16/2014	100.7	WV	MARSHALL	844	520	1369697
Q083758035 Q083758041	JULIE SPRINGWATER	NOBLE ENERGY INC NOBLE ENERGY INC	11/07/2014	100.7	WV	MARSHALL	850	499	1372587
Q081854063	SUSAN J BURK ET VIR	NOBLE ENERGY INC	11/08/2014 11/19/2014	100.7 32.317	WV WV	MARSHALL MARSHALL	<u>854</u> 851	178 204	1375607 1373172
					<u> </u>				
Q074648013	NICHOLAS A OLIVER ET UX	NOBLE ENERGY INC	11/20/2014	24.6	wv	MARSHALL	850	153	1372250
Q074648015 Q074648010	DEVIN J OLIVER CHAD L OLIVER	NOBLE ENERGY INC	11/20/2014	24.6	wv	MARSHALL	851	425	1373450
Q074648010 Q074648012	WILLIAM N KIDD	NOBLE ENERGY INC NOBLE ENERGY INC	11/20/2014 11/25/2014	24.6 24.6	WV WV	MARSHALL MARSHALL	849 850	649 155	<u>1372132</u> 1372251
Q074648014	JARED K KIDD	NOBLE ENERGY INC	11/25/2014	24.6	WV WV	MARSHALL	850	424	1372251 1373449
					<u> </u> −				
Q090332001	WILLIAM E MILLER ET UX	NOBLE ENERGY INC	12/09/2014	35.45	wv	MARSHALL	858	256	1376988
Q083768040	SCOTT C HARRIS ET UX	NOBLE ENERGY INC	12/12/2014	100.7	wv	MARSHALL	851	394	1373422
Q083768037	ANITA M MASON	NOBLE ENERGY INC	12/18/2014	100.7	WV	MARSHALL	851	5	1372816
Q083768038	BONNIE H GRISELL ET VIR	NOBLE ENERGY INC	12/18/2014	100.7	wv	MARSHALL	850	646	1372810
Q083768038 Q091220005		NOBLE ENERGY INC	12/18/2014 01/09/2015	100.7 1.269	wv wv	MARSHALL MARSHALL	850 863	<u>545</u> 214	1372810 1379364
Q091220005 Q081864065	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR	NOBLE ENERGY INC	01/09/2015	1.269 32.317	wv wv				
Q091220005 Q081864065 Q089614000	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JÖDI ANN WILSON- MADDOX ET VIR JUNE M MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015	1.269 32.317 0.322	wv wv wv	MARSHALL MARSHALL MARSHALL	863 863 852	214 223 347	1379364 1379368 1374048
Q091220005 Q081864065 Q089614000 Q091220004	BONNIE H GRISELL ET VIR GEORGE EARNEST KENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015	1.269 32.317 0.322 1.269	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863	214 223 347 211	1379364 1379368 1374048 1379363
Q091220005 Q081864065 Q089614000	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JÖDI ANN WILSON- MADDOX ET VIR JUNE M MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015 01/22/2015	1.269 32.317 0.322 1.269 1.269	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863	214 223 947 211 217	1379364 1379368 1374048 1379363 1379365
Q091220005 Q081864065 Q089614000 Q091220004 Q091220002	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONNIE S HENRY	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015	1.269 32.317 0.322 1.269	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863	214 223 347 211	1379364 1379368 1374048 1379363
Q091220005 Q081864065 Q089514000 Q091220004 Q091220001 Q091220001 Q091220001 Q091220003 Q091220006	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONNIE S HENRY LIONELE HENRY JR PAULA ANN HENRY BONNIE L WOOD	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015 01/22/2015 01/23/2015 01/23/2015 01/23/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 1.269	WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863	214 223 947 211 217 220 208 571	1379364 1379368 1374048 1379363 1379365 1379365
Q091220005 Q081864065 Q089514000 Q091220004 Q091220002 Q091220001 Q091220003 Q091220006 Q091220006	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONNIE S HENRY HUNEL E HENRY JR PAULA ANN HENRY PAULA ANN HENRY DAVIDA B EXTSER ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/22/2015 01/22/2015 01/23/2015 01/23/2015 01/28/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 0.2	WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 863 863 863 863	214 223 947 211 217 220 208 571 260	1379364 1379368 1374048 1379363 1379365 1379365 1379365 1379362 1379352 1380536 1376990
Q0912200005 Q081864065 Q085614000 Q091220004 Q091220002 Q091220003 Q091220003 Q091220006 Q091220006 Q090625000	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONINES HENRY LIONELE KENRY JR PAULA ANN HENRY BONNIEL WOOD DAVID A BEYSER ET UX CRYSTAL B DARRAH	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 03/20/2015 01/22/2015 01/23/2015 01/23/2015 01/23/2015 01/28/2015 01/28/2015 02/03/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 1.269 0.2 1.726	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 863 863 863 853 853 853 853 853	214 223 947 211 217 220 208 571 260 252	1379364 1379368 1374048 1379363 1379365 1379365 1379366 1379362 1380536 1376990 1376986
Q091220005 Q081864065 Q089514000 Q091220004 Q091220002 Q091220001 Q091220003 Q091220006 Q091220006	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONNIE S HENRY HUNEL E HENRY JR PAULA ANN HENRY PAULA ANN HENRY DAVIDA B EXTSER ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/22/2015 01/22/2015 01/23/2015 01/23/2015 01/28/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 0.2	WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 863 863 863 863	214 223 947 211 217 220 208 571 260	1379364 1379368 1374048 1379363 1379365 1379365 1379365 1379362 1379362 1380536 1376990
Q0912200005 Q081864065 Q085614000 Q091220004 Q091220002 Q091220003 Q091220003 Q091220006 Q091220006 Q090625000	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONINES HENRY LIONELE KENRY JR PAULA ANN HENRY BONNIEL WOOD DAVID A BEYSER ET UX CRYSTAL B DARRAH	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/22/2015 01/22/2015 01/23/2015 01/23/2015 01/23/2015 01/28/2015 01/28/2015 02/03/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 1.269 0.2 1.726	wv           wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 863 863 863 865 855 858 858 853	214 223 947 211 217 220 208 571 260 252 314	1379364 1379368 1374048 1379363 1379365 1379366 1379362 1380536 1376598 1376598 1376598 1376598
Q091220005 Q081864065 Q091220004 Q091220001 Q091220001 Q091220005 Q091220006 Q091220006 Q091220006 Q090625000 Q090625000	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY LIONEL E HENRY JR PAULA ANN HENRY BONNIE LWOOD DAVID A BEYSER ET UX CRYSTAL B DARRAH STEVEN LLOYD ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 03/20/2015 01/22/2015 01/23/2015 01/23/2015 01/23/2015 01/28/2015 01/28/2015 02/03/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 0.2 1.726 0.85	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 863 863 863 853 853 853 853 853	214 223 947 211 217 220 208 571 260 252	1379364 1379368 1374048 1379363 1379365 1379365 1379366 1379362 1380536 1376980 1376986
Q091220005 Q081864065 Q083614000 Q09122004 Q091220001 Q091220001 Q091220000 Q091220000 Q090625000 Q08067000 Q087970019 Q091280000	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE E HENRY CONIES HENRY LIONEL E HENRY JR PAULA ANN HENRY BONNIEL WOOD DAVID A BEYSER ET UX CRYSTAL B DARRAH STEVEN LLOYD ET UX JOSHUA DAVID HARTLEY BARBARA ANDERSON	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015 01/22/2015 01/23/2015 01/23/2015 02/23/2015 02/03/2015 02/03/2015 02/05/2015 02/05/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 0.2 1.776 0.85 0.85 0.886 0.48	wv wv wv wv wv wv wv wv wv wv wv wv wv w	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 865 855 855 855 855 853 853 853	214 223 347 211 217 220 208 571 250 252 314 318 498	1379364 1379368 1374048 1379363 1379365 1379365 1379362 1380536 1376990 1376986 1374598 1374598 1374602 1378209
Q091220005 Q081864065 Q089614000 Q091220004 Q091220001 Q091220001 Q091220006 Q091220006 Q091020006 Q090050000 Q090050000 Q0807970019	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE HENRY CONNIE S HENRY CONNIE S HENRY DAULA ANN HENRY BONNIE L WOOD DAVID A BEYSER ET UX CAYSTAL B DARRAH STEVEN LLOYD ET UX JOSHUA DAVID HARTLEY	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015 01/22/2015 01/23/2015 01/23/2015 01/28/2015 02/03/2015 02/03/2015 02/05/2015 02/05/2015	1.269 32.317 0.322 1.269 1.269 1.269 1.269 1.269 0.2 1.726 0.85 0.85	wv wv wv wv wv wv wv wv wv wv wv wv wv w	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 863 863 863 865 865 858 853 853 853 853 853 853 853 853	214 223 347 211 217 220 208 571 250 252 334 318 498 315	1379364 1379368 1374048 1379363 1379363 1379365 1379362 1380536 1376986 1376986 1376986 1376986 1376986 1376980 13775209
Q0912220005 Q081864065 Q0839614000 Q09122004 Q091220001 Q091220001 Q091220003 Q091220003 Q091220003 Q09125000 Q08007009 Q08007009 Q08007009 Q0807970019 Q091280000 Q090391011 Q090391003	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUNE M MORRIS GEORGE HENRY CONINES HENRY LUNELE HENRY JR PAULA ANN HENRY BONNIE L WOOD DAVID A BEYSER ET UX CRYSTAL & DARRAH STEVEN LLOYD ET UX JOSHUA DAVID HARTLEY BARBARA ANDERSON MARTHA FRANCES ULCAK NANCY L SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015 01/22/2015 01/23/2015 01/23/2015 02/23/2015 02/03/2015 02/03/2015 02/05/2015 02/05/2015	1.269 32.317 1.269 1.269 1.269 1.269 1.269 1.269 0.2 1.726 0.85 0.886 0.48 1.68	wv wv wv wv wv wv wv wv wv wv wv wv wv w	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 852 863 863 863 865 855 855 855 855 853 853 853	214 223 347 211 217 220 208 571 250 252 314 318 498	1379364 1379368 1374048 1379363 1379365 1379365 1379362 1380536 1376990 1376986 1374598 1374598 1374602 1378209
Q091220005 Q031864065 Q039614000 Q031220004 Q091220001 Q091220001 Q091220006 Q091220006 Q090050000 Q090050000 Q090050000 Q0907970019 Q091280000 Q090391011	BONNIE H GRISELL ET VIR GEORGE EARNEST HENRY JODI ANN WILSON- MADDOX ET VIR JUME M MORRIS GEORGE HENRY CONNIE 5 HENRY CONNIE 5 HENRY DAULA ANN HENRY BONNIE L WOOD DAVID A BETSER ET UX CRYSTAL & DARRAH STEVEN LLOYD ET UX JOSHUA DAVID HARTLEY BARBARA ANDERSON MARTHA FRANCES ULCAK	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015 01/09/2015 01/20/2015 01/20/2015 01/22/2015 01/23/2015 01/23/2015 01/28/2015 02/03/2015 02/03/2015 02/05/2015 02/05/2015	1.269 32.317 1.269 1.269 1.269 1.269 1.269 1.269 0.2 1.726 0.85 0.886 0.48 1.68	wv wv wv wv wv wv wv wv wv wv wv wv wv w	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	863 863 863 863 863 865 865 858 853 853 853 853 853 853 853 853	214 223 347 211 217 220 208 571 250 252 334 318 498 315	1379364 1379368 1379408 1379363 1379365 1379365 1379362 1376396 1376396 1376396 1376398 1376398 1374598 1374598 1374602 13778209

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#### Exhibit "A-2" HG Energy II Appalachia, LLC (Leases and Fee)

1	SOUTHWESTERN GUIDE	T	T		1	1		T	
0090391002	DOGS INC	NOBLE ENERGY INC	02/10/2015	1.68	wv	MARSHALL	-858		100004
Q090391005	COURTNEY D HALL	NOBLE ENERGY INC	02/10/2015	1.68	WV	MARSHALL	858	265	1376994
					+ "	(ISCOLDER,		- 335	13/0303
Q085150021	DONNA S DIMARCO ET VI	NOBLE ENERGY INC	02/12/2015	0.48	wv	MARSHALL	859	502	1377708
Q085150020	ANNA LEE HAKR	NOBLE ENERGY INC	02/12/2015	0.48	WV	MARSHALL	859	498	1377706
Q085150022	CLARENCE BURGE ET UX	NOBLE ENERGY INC	02/12/2015	0.48	WV	MARSHALL	860	504	1378212
00000000000							-		
Q083768044	LESLIE ANN BLYTHE ET VIR	NOBLE ENERGY INC	02/14/2015	100.7	WV	MARSHALL	860	535	1378222
Q083758049	MCWHORTER ET AL	NOBLE ENERGY INC							
Q091091000	RICHARD HYER ET UX	NOBLE ENERGY INC	02/14/2015 02/18/2015	100.7 2.28	WV WV	MARSHALL	860	529	1378220
Q090391001	H JAY ULBRICH	NOBLE ENERGY INC	02/19/2015	1.68	WV	MARSHALL	859 858	500 258	1377707
	MARILYN ULBRICH	Tioner citerior are			- WV	MARSHALL		258	1376989
0090391006	CHALMERS ET VIR	NOBLE ENERGY INC	02/19/2015	1.68	wv	MARSHALL	858	254	1376987
	BLYE ULBRICK JENSCHKE				<u> </u>				23/030/
Q090391010	ET VIR	NOBLE ENERGY INC	02/19/2015	1.68	wv	MARSHALL	858	323	1377188
Q090391013	BRYCE E ULBRICH ET UX	NOBLE ENERGY INC	02/19/2015	1.68	w	MARSHALL	860	501	1378211
		· ·		1					
Q090391012	ROBERT LEE SMITH ET UX	NOBLE ENERGY INC	02/19/2015	1.68	wv	MARSHALL	859	504	1377709
Q090391009	JUSTIN SMITH	NOBLE ENERGY INC	02/19/2015	1.68	WV	MARSHALL	858	321	1377187
Q083766042	JACQUELYN JOHNSON ET VIR	MODIE ENERGY INC	marmar					1	
		NOBLE ENERGY INC	02/26/2015	100.7	wv	MARSHALL	860	523	1378218
0090332003	PATTY BERISFORD ET VIR	NOBLE ENERGY INC	02/27/2015	70.45	wv	MARSHALL	860	555	1378228
	LORETTA JEAN RIGGLE ET					- HANNAH BALL		- 333	13/0220
0090332002	VIR	NOBLE ENERGY INC	02/27/2015	70.45	wv	MARSHALL	860	538	1378223
	ROBERT RANDOLPH				1				
Q090332007	WOODBURN ET UX	NOBLE ENERGY INC	02/27/2015	70.45	wv	MARSHALL	860	568	1378234
Q083768050	LEROY MILLER	NOBLE ENERGY INC	03/04/2015	100.7	WV	MARSHALL	860	532	1378221
Q083768047	REBECCA L CULLEN ET VIR	NOBLE ENERGY INC	03/07/2015	100.7	wv	MARSHALL	860	558	1378229
	FRANCES E RUTLEDGE ET				i			1	1
Q083768048	VIR VIR	NOBLE ENERGY INC	03/07/2015	100.7	wv	MARSHALL	860	513	1378215
Q083768052	STEVEN POND ET UX	NOBLE ENERGY INC	03/08/2015	100.7	WV	MARSHALL	860	574	1378236
Q083768046	GREGORY S MILLER ET UX	NOBLE ENERGY INC	02422000						
0003700040	ORCOOKT S MILLER ET UK	MUBLE ENERGY INC.	03/12/2015	100.7	wv	MARSHALL	860	517	1378216
Q083768055	HEATHER D MALO ET VIR	NOBLE ENERGY INC	03/12/2015	100.7	wv	MARCUALI	855	300	1300070
	TIMOTHY HOWARD				·····	MARSHALL	866	336	1380976
Q063768064	MANCHEGO	NOBLE ENERGY INC	03/12/2015	100.7	wv	MARSHALL	873	104	1386326
	MURIEL ANNE MILLER ET								
0063768094	VIR	NOBLE ENERGY INC	03/14/2015	168	wv	MARSHALL	860	541	1378224
	MURIEL ANNE MILLER ET								
Q083768045	VIR	NOBLE ENERGY INC	03/14/2015	100.7	wv	MARSHALL	850	545	1378225
Q083768053	IAN KIPP HAGEMANN	NOBLE ENERGY INC	03/16/2015	100,7	WV	MARSHALL	860	520	1378217
Q091288001	PATRICIA Y DARRAH	NOBLE ENERGY INC	03/17/2015	3.081	wv	MARSHALL	850	549	1378225
Q091288004	STANLEY DARRAH ET UX	NOBLE ENERGY INC	03/17/2015	3.081	wv	MARSHALL	860	571	1378235
Q091288006 Q083768084	RICHARD DARRAH CLARK D CHASE ET UX	NOBLE ENERGY INC	03/17/2015	3.081	wv	MARSHALL	860	562	1378231
Q091953000	PATRICIA Y DARRAH	NOBLE ENERGY INC NOBLE ENERGY INC	03/19/2015 03/23/2015	100.7	WV	MARSHALL	878	357	1390931
0091288002	DAVID A TAKACH ET UX	NOBLE ENERGY INC	03/24/2015	2.37	WV WV	MARSHALL MARSHALL	860	552	1378227
	DONNA L SIDIROPOLIS ET	House shellor and	03/24/2023	3,061		MANJIALL	600	507	1378213
Q091288005	ViR	NOBLE ENERGY INC	03/24/2015	3.081	wv	MARSHALL	860	510	1378214
								5.0	2070224
Q083768093	DAVID LEE EVANS JR ET UX	NOBLE ENERGY INC	03/25/2015	168	wv	MARSHALL	864	180	1379920
Q083768051	DAVID LEE EVANS JR ET UX	NOBLE ENERGY INC	03/25/2015	100.7	wv	MARSHAUL	864	187	1379923
Q091288003	RICHARD MORGAN	NOBLE ENERGY INC	03/31/2015	3.081	wv	MARSHALL	860	565	1378232
	JOSEPH H JACKSON JR ET		03/31/2013	A			200	202	
Q091664000				3.002					
Q075872007	עע	NOBLE ENERGY INC	04/04/2015	0.5	wv	MARSHALL	850	526	1378219
	TRACY M KESTERSON	NOBLE ENERGY INC	04/04/2015 04/10/2015	0.5 2.198	WV	MARSHALL	850 860		
Q091524003	TRACY M KESTERSON TRACY M KESTERSON	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015	0,5 2,198 2	₩V ₩V	MARSHALL MARSHALL	850 860 860	526 579 577	1378219 1978238 1378237
	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR	NOBLE ENERGY INC	04/04/2015 04/10/2015	0.5 2.198	wv	MARSHALL	850 860	526 579	1378219 1978238
Q091524003 Q091524001	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015	0,5 2,198 2 2	₩V ₩V ₩V	MARSHALL MARSHALL MARSHALL	850 860 860 862	526 579 577 251	1378219 1978238 1378237 1378748
Q091524003	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015	0,5 2,198 2	₩V ₩V	MARSHALL MARSHALL	850 860 860	526 579 577	1378219 1978238 1378237
Q091524003 Q091524001	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015	0.5 2.198 2 2 2 2	** ** **	MARSHALL MARSHALL MARSHALL MARSHALL	850 860 860 862 862 862	526 579 577 251 253	1378219 1378238 1378237 1378237 1378748 1378749
Q091524003 Q091524001 Q091524002	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015	0,5 2,198 2 2		MARSHALL MARSHALL MARSHALL	850 860 860 862 862 862	526 579 577 251 253 255	1378219 1378238 1378237 1378237 1378748 1378749 1378750
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015	0.5 2.198 2 2 2 2 2 2	** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 860 862 862 862	526 579 577 251 253	1378219 1378238 1378237 1378748 1378749
Q091524003 Q091524001 Q091524002 Q091524004	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015	0.5 2.198 2 2 2 2 2 2		MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 860 862 862 862	526 579 577 251 253 255	1378219 1378238 1378237 1378237 1378748 1378749 1378750
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISSA MILLER GISSON ET VIR WOODLAND HILL CHURCH	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015	0.5 2.198 2 2 2 2 2 2 2 100.7	**************************************	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 862 862 862 862 862 862 862 869	526 579 577 251 253 253 255 257 100	1378219 1378238 1378237 1378748 1378748 1378749 1378750 1378751
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX MAGELA CRAWFORD ET VIR MELESLA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GUD	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015	0.5 2.198 2 2 2 2 2 2 2 2 2 2 2	** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 862 862 862 862 862 862	526 579 577 251 253 255 255 257	1378219 1378238 1378237 1378748 1378748 1378749 1378750 1378751
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015	0.5 2.198 2 2 2 2 2 2 100,7 0.38	S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 862 862 862 862 862 862 862 862 862 869 864	526 579 577 251 253 255 255 255 257 100 183	1378219 1978238 1378237 1378748 1378749 1378750 1378750 1378751 1382833 1379921
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTRIEW V CONNER ET UX ANGELA CRAWFORD ET UR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015	0.5 2.198 2 2 2 2 2 2 2 100.7	**************************************	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 862 862 862 862 862 862 862 869	526 579 577 251 253 253 255 257 100	1378219 1378238 1378237 1378748 1378749 1378750 1378751 13822833
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX MAGELA CRAWFORD ET VIR MELESA MILLER GISSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 04/27/2015	0.5 2.198 2 2 2 2 2 2 100.7 0.38 14.222	** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 862 862 862 862 862 862 862 862 862 864 864 864	526 579 577 251 253 255 255 257 100 183 185	1378219 1378238 1378237 1378748 1378748 1378749 1378750 1378750 1378751 13822833 1379921 1379921
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTRIEW V CONNER ET UX ANGELA CRAWFORD ET UR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015	0.5 2.198 2 2 2 2 2 2 100.7 0.38	S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤ S ≤	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 862 862 862 862 862 862 862 862 862 869 864	526 579 577 251 253 255 255 255 257 100 183	1378219 1978238 1378237 1378748 1378749 1378750 1378750 1378751 1382833 1379921
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000	TRACY M KESTERSON TRACY M KESTERSON DEBRA HARTLEY ET VIR MATTRIEW V CONNER ET UX ANGELA CRAWFORD ET UR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 04/27/2015	0.5 2.198 2 2 2 2 2 2 100.7 0.38 14.222	** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 862 862 862 862 862 862 862 862 862 864 864 864	526 579 577 251 253 255 255 257 100 183 185	1378219 1378238 1378237 1378748 1378748 1378749 1378750 1378750 1378751 13822833 1379921 1379921
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX MAGELA CRAWFORD ET VIR MELESA MILLER GISSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 04/22/2015 05/05/2015	0.5 2.198 2 2 2 2 2 2 100.7 0.38 14.222 1.722	** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 850 860 862 862 862 862 862 863 864 864 864 866	526 579 577 251 253 255 257 100 183 185 340	1378219 1978238 1378237 1378748 1378748 1378749 1378750 1378750 1378751 1382833 1379921 1379922 1380977
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000 Q092567000	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LIDYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RKGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 04/27/2015	0.5 2.198 2 2 2 2 2 2 100.7 0.38 14.222	** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 862 862 862 862 862 865 865 865 865	526 579 577 251 253 255 255 257 100 183 185	1378219 1378238 1378237 1378748 1378749 1378750 1378750 1378751 1382833 1379921 1379922 1380977 1380535
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091633000 Q091633000 Q092567000 Q093768058 Q083768058	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LIDYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RKGEENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION OF NATURAL RESOURCES RODNEY F PETERSON RODNEY F PETERSON	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/25/2015 04/25/2015 05/05/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14	** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 850 860 862 862 862 862 862 863 864 864 864 866	526 579 577 251 253 255 255 255 100 183 185 340 558	1378219 1978238 1378237 1378748 1378748 1378749 1378750 1378750 1378751 1382833 1379921 1379922 1380977
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000 Q092567000 Q092567000 Q093768098	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX MAGELA CRAWFORD ET VIR MELISSA MILLER GIBSON ET VIR MELISSA MILLER GIBSON ET VIR MODIAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRSINIA DIVISION OF NATURAL RESOURCES RODREY F PETERSON	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/22/2015 04/22/2015 04/22/2015 04/22/2015 05/05/2015 05/07/2015 05/11/2015	0.5 2.198 2 2 2 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 860 862 862 862 862 865 864 864 864 864 865 870	526 579 577 251 253 255 257 100 183 185 340 558 380	1378219 1378238 1378238 1378237 1378748 1378749 1378750 1378751 13822833 1379921 1379922 1380977 1380535 1384207
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000 Q092567000 Q092567000 Q083768088 Q083768056 Q0837680562	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX MAGELA CRAWFORD ET VIR MELISSA MILLER GIBSON ET VIR MELISSA MILLER GIBSON ET VIR MOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JIR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION OF MATURAL RESOURCES RODNEY F PETERSON HAROLD B CROW ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/22/2015 04/22/2015 04/22/2015 05/05/2015 05/05/2015 05/11/2015 05/11/2015	0.5 2.198 2 2 2 2 2 2 2 100.7 0.38 14.222 1.722 1.722 134.14 168 100.7 100.7	32           32	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 862 862 862 862 864 864 864 864 864 865 870 866 865 870 866 865	526 579 577 251 253 255 257 100 183 185 340 558 380 342 102	1378219 1378239 1378237 1378748 1378748 1378749 1378750 1378750 1378750 1378751 1382833 1379922 1380937 1380535 1384207 1380535 1384207 1380578 1382834
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000 Q091633000 Q092567000 Q093768088 Q083768055 Q083768052 Q083768055	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LIDYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RKIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRSINIA DIVISION OF NATURAL RESOURCES RODNEY F PETERSON RODNEY F PETERSON HAROLD B CROW ET UX RICHARD S MULLEN ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/22/2015 04/22/2015 04/22/2015 05/05/2015 05/11/2015 05/11/2015 05/19/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7 300.7 100.7	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 860 862 862 862 862 862 863 864 864 864 864 865 865 865 865 865 865 865 865	526 579 577 251 253 255 255 257 100 183 185 380 340 558 380 342 340 98	1378219 1378238 1378237 1378748 1378749 1378750 1378750 1378750 1378751 1382833 1379921 13809377 13809377 1380978 1384207 1380978
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091576000 Q092567000 Q093768068 Q083768065 Q083768055 Q083768059 Q083768059 Q083768059	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RISGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION OF MATURAL RESOURCES ROONEY F PETERSON HAROLD & CROW ET UX RICHARD S MULLEN ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/22/2015 04/25/2015 04/25/2015 05/07/2015 05/11/2015 05/11/2015 05/21/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7 100.7 100.7		MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 860 862 862 862 862 862 862 864 864 864 864 864 866 865 870 866 865 865 865 865 865 865	526 579 577 251 253 255 257 100 183 185 340 558 340 342 102 98 104	1378219 1378219 1378238 1378237 1378748 1378749 1378750 1378750 1378751 1382833 1379921 1379922 1380977 1380978 1382834 1382834 1382835
Q091524003 Q091524001 Q091524002 Q091524002 Q091524005 Q083768054 Q091576000 Q091633000 Q091633000 Q092567000 Q093768068 Q083768065 Q083768065 Q083768065 Q083768059 Q085769 Q085769 Q085769 Q085769 Q085769 Q085769 Q085769 Q085769 Q085769 Q099 Q099 Q099 Q099 Q099 Q099 Q099 Q0	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR MELISSA MILLER GIBSON ET VIR MELISSA MILLER GIBSON ET VIR MOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION OF MATURAL RESOURCES ROONEY F PETERSON HAROLD B CROW FUX RICHARD S MULLEN ET UX BRIAN K CROW	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/22/2015 04/22/2015 05/05/2015 05/11/2015 05/11/2015 05/21/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 1.34.14 168 100.7 100.7 100.7 1.369		MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	850 860 860 862 862 862 862 862 862 862 862 863 864 865 865 865 865 863 865 863 869 869	526 579 577 251 253 255 257 100 183 185 340 558 340 342 102 98 98 204 354	1378219 1378219 1378238 1378237 1378748 1378749 1378750 1378750 1378750 1378751 13822833 1379921 1380937 1380937 1380977 1380978 1382834 1382834 1382835 1382835 1382835
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091633000 Q091633000 Q092567000 Q093768080 Q083768062 Q083768062 Q083768063 Q083768060	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LIDYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RKIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRSINIA DIVISION OF NATURAL RESOURCES RODNEY F PETERSON RODNEY F PETERSON HAROLD B CROW ET UX BRIAN N CROW	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 05/07/2015 05/07/2015 05/11/2015 05/12/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7 100.7 100.7 100.7 100.7 100.7		MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 860 862 862 862 862 862 863 864 864 864 865 866 865 866 869 869 869 869 869 869 869	526 579 577 251 253 255 257 100 183 185 380 340 558 380 342 102 98 104 354 108	1378219 1378219 1378238 1378237 1378748 1378750 1378750 1378750 1378751 1382833 1379921 13809377 13809377 1380977 1380978 1382832 1382832 1382835
Q091524003 Q091524001 Q091524002 Q091524004 Q091524005 Q083768054 Q091576000 Q091576000 Q092567000 Q092567000 Q083768068 Q083768055 Q083768052 Q083768052 Q083768052 Q083768063	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX MAGELA CRAWFORD ET VIR MELISSA MILLER GIBSON ET VIR MELISSA MILLER GIBSON ET VIR MOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION OF NATURAL RESOURCES ROONEY F PETERSON HAROLD B CROW F UX BRIAN N CROW EN UX AMES B CROW ET UX GREGORY S CROW	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 05/07/2015 05/07/2015 05/11/2015 05/11/2015 05/12/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7 100.7 100.7 100.7 100.7 100.7		MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	860 860 860 862 862 862 862 862 862 864 864 864 864 866 866 865 869 869 869 869 869 869 869 869	526 579 577 251 253 255 257 100 183 185 340 340 558 380 342 102 98 104 354 106	1378219 1378238 1378238 1378237 1378748 1378750 1378750 1378750 1378751 1387833 1379921 1379921 1379922 1380977 1380977 1380978 1382834 1382834 1382835 1383138 1382837 1382837
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Q091524003 Q091524001 Q091524002 Q091524002 Q091524005 Q093768054 Q091576000 Q091633000 Q091633000 Q092567000 Q083768098 Q083768098 Q083768098 Q083768055 Q083768057 Q083768057	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISSA MILLER GISSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRGINIA DIVISION OF MATURAL RESOURCES RODREY F PETERSON HAROLD B CROW ET UX BRIAN K CROW DAVID C DAMIELS ET UX JAMES B CROW ET UX GREGORY S CROW DAVID C ANULLEN ET UX PRISCILA ANN MILLER HADEN	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 05/07/2015 05/07/2015 05/11/2015 05/12/2015 05/22/2015 05/22/2015 05/22/2015 05/22/2015 05/22/2015 05/22/2015 05/27/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7		MARSHALL MARSHALL	860 860 860 862 862 862 862 863 864 864 864 864 864 864 866 865 866 866 869 869 869 869 869 869 869 869	526 579 577 251 253 255 257 100 183 185 340 558 340 558 340 558 340 98 104 102 98 104 358 358 545 352	1378219 1378219 1378238 1378237 1378749 1378750 1378750 1378750 1378751 1382833 1379921 1379922 13809377 13809378 1382832 1382835 1382835 1382835 1382835 1382835 1382835 1382836 1382342 1382442 1382444 1382444 1382444 1
Q091524003 Q091524001 Q091524002 Q091524002 Q091524005 Q091524005 Q091576000 Q091576000 Q091633000 Q092667000 Q093768060 Q083768065 Q083768065 Q083768065 Q083768066 Q083768066 Q083768066 Q083768065 Q083768065 Q083768065 Q083768065 Q083768065 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057 Q083768057	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RKIGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRSINIA DIVISION OF NATURAL RESOURCES RODNEY F PETERSON ROONEY F PETERSON HAROLD B CROW ET UX BRIAN N CROW DAVID D DANIELS ET UX JAMES B CROW ET UX GREGORY S CROW DAVID D DANIELS ET UX JAMES B CROW ET UX SHRIJEN ER UX PAISTILLA ANN MILLER HADEN SHRIJER SON	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/22/2015 04/22/2015 05/05/2015 05/05/2015 05/11/2015 05/12/2015 05/12/2015 05/12/2015 05/12/2015 05/12/2015	0.5 2.198 2 2 2 2 2 100.7 0.38 14.222 1.722 1.722 1.34.14 168 100.7 100.7 100.7 1.369 100.7 100.7 100.7 100.7 100.7	wv	MARSHALL MARSHALL	850 860 860 862 862 862 862 862 862 862 862 862 863 864 865 865 865 865 865 865 865 865 865 865	526           579           577           251           253           255           257           100           183           185           340           558           380           342           102           98           108           108           354           358           358           545	1378219 1378219 1378238 1378237 1378748 1378748 1378750 1378750 1378750 1378750 1378751 1382833 1379921 1380977 1380977 1380978 1380978 1382834 1382835 138283 1382835 1382835 138283 13828 13837 138283 13837 13828 13837 1
Q091524003 Q091524001 Q091524002 Q091524002 Q091524005 Q091524005 Q091576000 Q091576000 Q091576000 Q092567000 Q092567000 Q093768056 Q083768056 Q083768056 Q083768060 Q083768065 Q083768055 Q083768055 Q083768055 Q083768055	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RKIGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRSINIA DIVISION OF NATURAL RESOURCES RODNEY F PETERSON ROONEY F PETERSON HAROLD B CROW ET UX BRIAN N CROW DAVID D DANIELS ET UX JAMES B CROW ET UX GREGORY S CROW DAVID D DANIELS ET UX JAMES B CROW ET UX SHRIJEN ER UX PAISTILLA ANN MILLER HADEN SHRIJER SON	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/10/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 05/07/2015 05/07/2015 05/11/2015 05/12/2015 05/22/2015 05/22/2015 05/22/2015 05/22/2015 05/22/2015 05/22/2015 05/27/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7		MARSHALL MARSHALL	860 860 860 862 862 862 862 863 864 864 864 864 864 864 866 865 866 866 869 869 869 869 869 869 869 869	526 579 577 251 253 255 257 100 183 185 340 558 340 558 340 558 340 98 104 102 98 104 358 358 545 352	1378219 1378219 1378238 1378237 1378748 1378748 1378749 1378750 1378750 1378750 1378751 1382833 1379921 1380977 1380977 1380978 1380978 1382834 1382835 13837 1382835 13837 1382835 13837 1382835 13837 1382835 13837
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Q091524003 Q091524001 Q091524002 Q091524002 Q091524005 Q091524005 Q091576000 Q091576000 Q091576000 Q092567000 Q092567000 Q093768056 Q083768056 Q083768056 Q083768060 Q083768065 Q083768055 Q083768055 Q083768055 Q083768055	TRACY M RESTERSON TRACY M RESTERSON DEBRA HARTLEY ET VIR MATTHEW V CONNER ET UX ANGELA CRAWFORD ET VIR IMALEE LLOYD ET VIR MELISSA MILLER GIBSON ET VIR WOODLAND HILL CHURCH OF GOD ROBERT W RIGGENBACH JR ET UX RAYMOND K MILLER ET UX WEST VIRSINIA DIVISION OF NATURAL RESOURCES RODNEY F PETERSON RODNEY F PETERSON HAROLD B CROW ET UX BRIAN K CROW DAVID D DANIELS ET UX GREGORY S CROW DAVID D DANIELS ET UX GREGORY S CROW DAVID D DANIELS ET UX SHRINERS HOSPITALS FOR CHILDREN DANIEL D HOBBS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	04/04/2015 04/10/2015 04/10/2015 04/12/2015 04/14/2015 04/14/2015 04/14/2015 04/14/2015 04/12/2015 04/22/2015 05/07/2015 05/07/2015 05/11/2015 05/12/2015 05/22/2015 05/22/2015 05/22/2015 05/27/2015	0.5 2.198 2 2 2 2 100.7 0.38 14.222 1.722 134.14 168 100.7	WV	MARSHALL MARSHALL	860 860 860 862 862 862 862 863 864 864 864 864 864 865 866 865 866 869 869 869 869 869 869 869 869 869	526           579           577           251           253           255           257           100           183           185           340           558           380           342           102           98           104           108           354           545           352           543           356	1378219 1378219 1378238 1378237 1378749 1378750 1378750 1378750 1378750 1378750 1378921 1379922 1379922 13809377 13809378 1382832 1382835 1382385 1382835 1382385 13837 1382385 13825 1385 1385 1385 1385 1385 1385 1385 1385 1385 1385

#### Exhibit "A-2" KG Energy II Appalachia, LLC (Leases and Fee)

## 100K0988 PAGE0349

Q083768095	KATHLEEN A SULLIVAN ET VIR	NOBLE ENERGY INC	or he bour					T	T
		NODE ENERGY INC	06/16/2015	168	<u>w</u> v	MARSHALL	870	364	1384194
Q083768096	FRANCIS F FISCHER ET UX	NOBLE ENERGY INC	06/16/2015	168	wv	MARSHALL	870	366	1384195
Q083758097	DENNIS FISCHER ET UX	NOBLE ENERGY INC	06/16/2015	168	WV	MARSHALL	870	358	1384191
Q083768103	NORA C POWDERLY	NOBLE ENERGY INC	06/16/2015	168	w	MARSHALL	873	83	1386310
Q093178000 Q083768067	DENNIS FISCHER ET LIX	NOBLE ENERGY INC	06/16/2015	0.13	WV	MARSHALL	871	490	1384784
(2/03/06/06/	KATHLEEN A SULLIVAN ET	NOBLE ENERGY INC	06/16/2015	100.7	wv	MARSHALL	870	360	1384192
Q083768068	VIR	NOBLE ENERGY INC	achic pour		1	1			
		HODLE ENERGY LEC	06/16/2015	100.7	<u>wv</u>	MARSHALL	870	362	1384193
Q083758069	FRANCIS F FISCHER ET UX	NOBLE ENERGY INC	06/16/2015	100.7	wv.	MARSHALL	079	494	1004307
Q083768076	NORA C POWDERLY	NOBLE ENERGY INC	06/16/2015	100.7	wv.	MARSHALL	871	89	1384787
	ANTHONY T POWDERLY ET					- HERENEL			1300313
Q083768109	UX	NOBLE ENERGY INC	06/20/2015	168	wv	MARSHALL	878	368	1390936
	ANTHONY T POWDERLY ET								
0083768080	UX	NOBLE ENERGY INC	06/20/2015	100.7	wv	MARSHALL	878	363	1390933
Q083768104	EUGENIA A KERR	NOBLE ENERGY INC	06/24/2015	168	WV	MARSHALL	873	120	1386343
Q083768105 Q083768073	MARY F WEILAND	NOBLE ENERGY INC	05/24/2015	168	WV	MARSHALL	873	126	1386350
0083768078	EUGENIA A KERR MARY F WEILAND	NOBLE ENERGY INC	05/24/2015	100.7	WV	MARSHALL	873	118	1386341
4,437,900,78	HARRIET C HERMAN ET	NOBLE ENERGY INC	06/24/2015	100.7	WV	MARSHALL	873	124	1386348
Q083768100	ViR	NOBLE ENERGY INC	05000005	100		1			1
	HARRIET C HERMAN ET	NODLE ENERGY ANC	06/29/2015		WV	MARSHALL	873	122	1386345
Q083758072	ViR	NOBLE ENERGY INC	06/29/2015	100.7	wv				
	EDWARD P POWDERLY ET				- wv	MARSHALL	873	116	1386338
Q083768102	UX	NOBLE ENERGY INC	06/30/2015	168	wv	MARSHALL	1	1 07	
	EDWARD P POWDERLY ET		00,30/2025			MAIONAU	873	85	1386311
Q083768075	UX	NOBLE ENERGY INC	06/30/2015	100,7	wv	MARSHALL	873	91	1386316
	JANE H BARNSTEINER ET			T	+	- mananali	+ <u>°/</u> 3		1366316
Q083768106	UX	NOBLE ENERGY INC	07/06/2015	168	ww	MARSHALL	873	132	1386356
	JANE H BARNSTEINER ET		1	T			1		2000330
Q083758074	UX.	NOBLE ENERGY INC	07/06/2015	100.7	wv	MARSHALL	873	93	1386318
	NORMAN GALE JOHNSON		1		1				
Q095637000	ET UX	NOBLE ENERGY INC	07/07/2015	1.255	wv	MARSHALL	878	370	1390937
	GRANDVIEW-DOOLIN		-						
	PUBLIC SCHOOL SERVICE		1	1	1	1	1	1	1
Q095122000	DISTRICT	NOBLE ENERGY INC	07/08/2015	0.23	wv	MARSHALL	873	107	1386329
Q083768099	EILEEN T POWDERLY	NOBLE ENERGY INC	07/10/2015	100.7	WV	MARSHALL	873	81	1386309
Q083768077 Q083768101	ELEEN T POWDERLY	NOBLE ENERGY INC	07/10/2015	100.7	WV	MARSHALL	873	87	1386312
	JAMES E HERMAN	NOBLE ENERGY INC	07/18/2015	168	wv_	MARSHALL			
Q083758079	JAMES E HERMAN	NOBLE ENERGY INC	07/18/2015	100.7	wv	MARSHALL	873	128	1386351
Q091524006	WILLIAM R LEVASSEUR JR					1			
Q083768108	JAMES T SCHOLL	NOBLE ENERGY INC NOBLE ENERGY INC	07/22/2015	2	wv	MARSHALL	873	101	1386323
Q083758110	SHARON LSCHOLL	NOBLE ENERGY INC	07/24/2015	168	WV	MARSHALL	878	365	1390934
Q083768081	SHARON LISCHOLL	NOBLE ENERGY INC	07/24/2015	168	wv	MARSHALL	878	36	1390932
Q083768082	JAMES T SCHOLL	NOBLE ENERGY INC	07/24/2015 07/24/2015	100.7	WV	MARSHALL	878	379	1390940
Q083768107	ANNE GALBALLY ET VIR	NOBLE ENERGY INC	07/28/2015	168	WV	MARSHALL	878	376	1390939
Q083768083	ANNE GALBALLY ET VIR	NOBLE ENERGY INC	07/28/2015	100.7	WV	MARSHALL	878 878	373	1390938
Q091524007	TOM KROL ET UX	NOBLE ENERGY INC	07/30/2015	2	WV	MARSHALL		354	1390930
Q083768114	MARY S SCHOLL	NOBLE ENERGY INC	07/31/2015	168	wv	MARSHALL	873 890	98	1386321
						WHATHALL	0.50	572	1401944
Q083768116	SUSANNE S QUARTERMAN	NOBLE ENERGY INC	07/31/2015	168	l wv	MARSHALL	890	606	1401960
	CHRISTINA BOARDWINE				1	- Intribute			1401200
Q091524008	ET VIR	NOBLE ENERGY INC	07/31/2015	2	wv	MARSHALL	873	95	1386320
Q083768088	MARY S SCHOLL	NOBLE ENERGY INC	07/31/2015	100.7	WV	MARSHALL	890	569	1401943
	1				1				
Q083768090	SUSANNE S QUARTERMAN	NOBLE ENERGY INC	07/31/2015	100.7	wv	MARSHALL	890	550	1401937
Q083768115	BRIAN P POWDERLY ET UX	NOBLE ENERGY INC	08/24/2015	168	WV	MARSHALL	890	566	1401941
					1				
0083768089	BRIAN P POWDERLY ET UX	NOBLE ENERGY INC	08/24/2015	100.7	wv	MARSHALL	_ 890	563	1401940
Q083768111	BRIDGET A POWDERLY	NOBLE ENERGY INC	09/03/2015	168	WV	MARSHALL	881	25	1392439
Q083768085 Q083768112	BRIDGET A POWDERLY	NOBLE ENERGY INC	09/03/2015	100.7	WV	MARSHALL	881	29	1392440
Q083768112 Q083768086		NOBLE ENERGY INC	09/08/2015	168	wv	MARSHALL	881	32	1392441
Q096159000	NORA K POWDERLY MARTHA F POWELL	NOBLE ENERGY INC	09/08/2015	100.7	WV	MARSHALL	881	23	1392438
When we we	MANIA TOWELL	NOBLE ENERGY INC	09/28/2015	1,435	WV.	MARSHALL	881	21	1392437
Q097423000	ROBERT L HENRY JR ET AL	NOBLE ENERGY INC	10/04/2015	0.906	wv				
Q083768113	KEVIN M POWDERLY	NOBLE ENERGY INC	10/08/2015	168	WV	MARSHALL	890 890	. 613	1401952
Q083768087	KEVIN M POWDERLY	NOBLE ENERGY INC	10/08/2015	100,7	wv	MARSHALL	890	515 518	1401925
	VICTORIA A PAKROVSKY				t "'	INFORMUL	650	910	1401927
Q097976006	ETVIR	NOBLE ENERGY INC		11 4747	1	1		599	1401958
			10/31/2015	179512	WV WV	MARSHALL			4701730
	1		10/31/2015	11.4215	<u>wv</u>	MARSHALL	890		
Q097976005	MARJORIE B KIDD ET VIR	NOBLE ENERGY INC	10/31/2015	11.4215					1401057
	MARJORIE B KIDD ET VIR				wv wv	MARSHALL	890	596	1401957
Q097976001	MARJORIE B KIDD ET VIR SARA B ANDERSON ET VIR	NOBLE ENERGY INC							1401957 1401663
	MARJORIE B KIDD ET VIR	NOBLE ENERGY INC	11/05/2015	11.4215	wv	MARSHALL	890	596	
Q097976001 Q097976004	MARJORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015	11.4215 11.4215 11.4215	wv	MARSHALL MARSHALL	890 890	596 310	1401663
Q097976001	MARJORIE B KIDD ET VIR SARA B ANDERSON ET VIR	NOBLE ENERGY INC	11/05/2015 11/17/2015	<u>11.4215</u> 11.4215	wv	MARSHALL MARSHALL	890 890	596 310	1401663
Q097976001 Q097976004 Q097976007	MARJORJE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016	11.4215 11.4215 11.4215 11.4215	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890	596 310 602 316	1401663 1401959 1401665
Q097976001 Q097976004	MARJORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015	11.4215 11.4215 11.4215	wv wv wv	MARSHALL MARSHALL MARSHALL	890 890 890	596 310 602	1401663 1401939
Q097976001 Q097976004 Q097976007 Q097976007 Q074648001	MARIORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/21/2013	11.4215 11.4215 11.4215 11.4215 71.051	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792	596 310 602 316 603	1401563 1401959 1401665 1341693
0097976001 0097976004 0097976007 0074648001 0074648001	MARIORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX WILLIAM N ROUPE ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/21/2013 02/21/2013	11.4215 11.4215 11.4215 11.4215 11.4215 71.051 71.051	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792	596 310 602 316 603 603	1401563 1401959 1401565 1341693 1341693
Q097976001 Q097976004 Q097976007 Q074648001 Q074648001 Q078626003	MARJONIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/12/2013 02/21/2013 02/21/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485	wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 808	596 310 602 316 603 603 301	1401663 1401959 1401665 1341693 1341693 1351576
0097976001 0097976004 0097976007 0074648001 0074648001	MARIORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/21/2013 08/01/2013 08/01/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485	*** *** *** *** ***	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808	596 310 602 316 603 603 301 301	1401663 1401939 1401665 1341693 1341693 1351576 1351576
Q097976001 Q097976004 Q097976007 Q074648001 Q074648001 Q076626003 Q078626003 Q078626003	MARUORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2015 02/12/2013 02/21/2013 03/01/2013 08/14/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485	** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808 808	596 310 602 316 603 603 301 301 309	1401563 1401939 1401565 1341693 1341693 1351576 1351576 1351576
0,097976001 0,097976004 0,0979976007 0,074648001 0,074648001 0,078626003 0,078626003	MARIORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/21/2013 08/01/2013 08/01/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485	*** *** *** *** ***	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808	596 310 602 316 603 603 301 301	1401663 1401939 1401665 1341693 1341693 1351576 1351576
Q097976001 Q097976004 Q097976007 Q074648001 Q074648001 Q076626003 Q078626003 Q078626003	MARJONJE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2015 02/12/2015 02/21/2013 08/01/2013 08/01/2013 08/02/2013 08/14/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 12.485 24.485	WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 792 792 808 808 808 808	596 310 602 316 603 301 301 300 309 309	1401663 1401359 1401665 1341693 1341693 1351576 1351576 1351576 1351581 1351581
097976001 097976004 097976007 0074648001 0078626003 0078626003 0078626004 0078625004	MARUORIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2015 02/12/2013 02/21/2013 03/01/2013 08/14/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485	** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808 808	596 310 602 316 603 603 301 301 309	1401663 1401939 1401665 1341693 1341693 1351576 1351576 1351576
0097976001 0097976004 0097976007 0074648001 0074648001 0078626003 0078626004 0078626004 0078626004	MARJONJE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/21/2013 02/21/2013 08/02/2013 08/02/2013 08/02/2013 08/02/2013 08/16/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485 14.485	wv wv wv wv wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	830 830 830 792 792 808 808 808 808 808	596 310 602 316 603 301 301 309 309 309 303	1401663 1401959 1401665 1341693 1341693 1351576 1351576 1351581 1351581 1351581
0097976001 0097976004 0097976007 0074648001 0074648001 0078626003 0078626004 0078626004 0078626004	MARJONJE B KIDD ET VIR SARA B ANDERSON ET VIR LORMA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER KENNETH R MORRIS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2015 02/12/2013 02/21/2013 03/01/2013 08/01/2013 08/14/2013 08/16/2013 08/16/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485 14.485 14.485	wv           wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	830 830 830 792 792 808 808 808 808 808 808	596 310 602 316 603 301 301 300 309 309 303 303	1401663 1401939 1401665 1341693 1341693 1351576 1351576 1351581 1351577 1351577
Q097976001 Q097976004 Q097976007 Q074548001 Q078626003 Q078626003 Q078626004 Q078626004 Q078626002 Q078626002	MARJONIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11//7/2015 12/08/2015 02/12/2015 02/12/2013 02/21/2013 08/07/2013 08/07/2013 08/14/2013 08/14/2013 08/16/2013 08/16/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485 14.485 14.485 14.485 14.485	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 792 792 808 808 808 808 808 808	596 310 602 316 603 603 301 301 301 309 309 309 303 303 305	1401663 1401959 1401665 1341693 1341693 1351576 1351576 1351581 1351581 1351577 1351577 1351577
Q097976001 Q057976004 Q057976007 Q074648001 Q074648001 Q078626003 Q078626004 Q078626004 Q078626004 Q078626002 Q078626002 Q078626002	MARJORJE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER KENNETH R MORRIS ET UX JANICE R CROOK ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/12/2013 02/21/2013 02/21/2013 02/21/2013 02/21/2013 08/16/2013 08/16/2013 08/26/2013 08/26/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485 14.485 14.485 14.485 14.485	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808 808 808 808 808 808 808	596 310 602 316 603 603 301 300 309 309 309 309 303 303 305 305	1401663 1401939 1401665 1341693 1351576 1351576 1351577 1351577 1351577 1351577 1351579
0037376001 0037376004 0037376007 0074648001 0078626003 0078626003 0078626004 0078626004 0078626004 0078626002 0078626002 0078626005	MARJONIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER MANCY L SNYDER JANICE R CROOK ET VIR JANICE R CROOK ET VIR JANICE R CROOK ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11//7/2015 12/08/2015 02/12/2015 02/12/2013 02/21/2013 08/07/2013 08/07/2013 08/14/2013 08/14/2013 08/16/2013 08/16/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485 14.485 14.485 14.485 14.485	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 792 792 808 808 808 808 808 808	596 310 602 316 603 603 301 301 301 309 309 309 303 303 305	1401663 1401959 1401665 1341693 1341693 1351576 1351576 1351581 1351581 1351577 1351577 1351577
0037376001 0037376004 0037376007 0074648001 0078626003 0078626003 0078626004 0078626004 0078626004 0078626002 0078626002 0078626005	MARJONIE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE N WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY E ROOK ET VIR JANICE R CROOK ET VIR JANICE R CROCK ET VIR WANDA MAE BLAKE JOAN JANE PARSONS ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11//7/2015 12/08/2015 02/12/2015 02/11/2013 08/01/2013 08/01/2013 08/01/2013 08/14/2013 08/14/2013 08/16/2013 08/16/2013 08/16/2013 08/16/2013	11.4215 11.4215 11.4215 11.4215 71.051 71.051 12.485 12.485 14.485 14.485 14.485 14.485 14.485	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808 808 808 808 808 808 80	596           310           602           316           603           301           303           309           303           303           305           316	1401663 1401959 1401665 1341693 1351576 1351576 1351576 1351581 1351577 1351577 1351577 1351579 1351579
Q097976001 Q057976004 Q057976007 Q074648001 Q078626003 Q078626003 Q078626004 Q078626004 Q078626004 Q078626002 Q078626002 Q078626002 Q078626005 Q078626005 Q078626005	MARJORJE B KIDD ET VIR SARA B ANDERSON ET VIR LORNA MARIE LEW CHARLES EDWIN BLUE IV WILLIAM N ROUPE ET UX JUNE MORRIS JUNE MORRIS JUNE MORRIS NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY L SNYDER NANCY E SNYDER	NOBLE ENERGY INC NOBLE ENERGY INC	11/05/2015 11/17/2015 12/08/2015 02/12/2016 02/12/2013 02/21/2013 02/21/2013 02/21/2013 02/21/2013 08/16/2013 08/16/2013 08/26/2013 08/26/2013	11.4215 11.4215 11.4215 11.4215 71.051 12.485 12.485 14.85 14.85 15	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	890 890 890 890 792 792 792 808 808 808 808 808 808 808 808	596 310 602 316 603 603 301 300 309 309 309 309 303 303 305 305	1401663 1401939 1401665 1341693 1351576 1351576 1351577 1351577 1351577 1351577 1351579

#### Echibit "A-2" G Energy II Appalachia, LLC (Leases and Fee)

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	JOAN JANE PARSONS ET		1						
			1				-		· · · · · ·
Q086417003	VIR	NOBLE ENERGY INC	02/03/2015	26.062	wv	MARSHALL	859		
Q088417004	IDA L CAMPBELL	NOBLE ENERGY INC	02/03/2015	26.062	wv			506	1377710
	HARRIET C VENTURA ET				+ **	MARSHALL	859	496	1377704
0083768091	VIR	NOBLE ENERGY INC	02/18/2015	258.7	wv	MARSHALL	894	541	1403682
	HARRIET C VENTURA ET							- 394	1403082
Q083768091	VIR	NOBLE ENERGY INC	02/18/2016	268.7	wv	MARSHALL	894	541	100000
	CSX TRANSPORTATION								1403682
Q095360000	INC	NOBLE ENERGY INC	08/05/2015	28.574	wv	MARSHALL	879	251	
	GENEVA A BASSETT					are of the second		231	1391401
CVX918645	SANCHEZ	CHEVRON U.S.A., INC	06/20/2012	133.601	wv	MARSHALL	814	399	
	GENEVA BASSETT						014	333	1354110
CVX920045	SANCHEZ	CHEVRON U.S.A., INC	10/26/2013	1.399	wv	MARSHALL	813	593	<b>(1111111111111</b>
CVX947094	LOIS ZWOLENSKY-SFX	CHEVRON U.S.A., INC	11/02/2016	98.819	WV	MARSHALL	_		1353969
CVX946510	NICOLE GATTS-SFX	CHEVRON U.S.A., INC	11/02/2016	98.819	wv	MARSHALL	899	476	1411785
						MARSHALL	899	470	1411784
CVX936053	LLOYD C. ARNOLD ET UX	CHEVRON U.S.A., INC.	10/14/2014	317,457	wv	MARSHALL			
CVX936589	LLOYD C. ARNOLD	CHEVRON U.S.A., INC.	11/13/2014	6.74	wv		864	39	1379825
		and the second second		0.74		MARSHALL	863	511	1379748
	HARLES W. MILLER ET UX	CHEVRON U.S.A., INC.	11/19/2014	6.74	wv	MARSHALL	861	FOF	4070444
CVX939752	LLOYD C ARNOLD ET UX	CHEVRON U.S.A., INC.	02/13/2015	18.854	wv	MARSHALL	915	595 582	<u>1378411</u> 1422075

				Mineral Fee		1	T –	<u> </u>	T
Fee Number	Original Grantor	Original Grantee	Effective Date	Gross Acres	State	County	Book	Page	Inst. No.
		CONSOLIDATION COAL							
Q097217000	MILLER, ADAM & MARY	COMPANY	01/05/1956	3.59	wv	MARSHALL	311	333	j
	LOUCKS, CHARLES H;							+	<u> </u>
	KEISTER, FENTON O, JR, EI	CONSOLIDATION COAL	1 .		1				1
624051	AL	COMPANY	08/17/1950	2817.784	wv	MARSHALL	273	326	4
		CONSOLIDATION COAL						1	1
624074	GATTS, ALICE	COMPANY	01/09/1952	76.28	wv	MARSHALL	282	394	
	GATTS, LLOYD Q.R. MARY	CONSOLIDATION COAL			<u> </u>		<u> </u>	t	<u>                                     </u>
624083	WOLFE	COMPANY	01/01/1953	132.2	wv	MARSHALL	290	94	ł
	COX, HANNAH O & J	CONSOLIDATION COAL						<u>                                      </u>	<u></u>
624081	FRANK	COMPANY	01/01/1953	36.96	wv .	MARSHALL	250	110	ļ
	GATTS, ELIZABETH R J &	CONSOLIDATION COAL					<u> </u>	t	
624080	HARLEY	COMPANY	01/01/1953	21.67	wv	MARSHALL	290	97	1
	WOLFE, BLAINE & VIVIAN	CONSOLIDATION COAL							
Q097216000	ETAL	COMPANY	01/24/1956	1.775	wv	MARSHALL	312	100	ł –
		CONSOLIDATION COAL							
624150	RINE, G W & BESSIE J	COMPANY	04/09/1956	98.01	wv	MARSHALL	313	200	1
	1	CONSOLIDATION COAL						200	·
624145	MILLER, LESTER ET AL	COMPANY	01/07/1957	82.68	wv	MARSHALL	319	326	1
		CONSOLIDATION COAL						- 320	·
624146	OHIO POWER COMPANY	COMPANY	04/30/1957	93,89	wv	MARSHALL	321	319	1
							JEA		
	HOWE, NEVA J; LANDERS,	CONSOLIDATION COAL						1	
624302	LENA M & RICHARD O	COMPANY	01/30/1958	248.21	wv	MARSHALL	328	275	
	WOLFF, DELBERT & HELEN	CONSOLIDATION COAL						- 2/3	
624160	ETAL	COMPANY	03/27/1967	136,587	wv	MARSHALL	390	167	
	FRANK, ALICE LEONA &	CONSOLIDATION COAL							
624169	BEN	COMPANY	01/21/1972	38.48	wv	MARSHALL	425	232	
	EDWARD DOUGLAS GUIRE							- 254	
041111		CNX LAND RESOURCES INC	69/19/2007	248,6	wv	MARSHALL	663	91	121422
	COLUMBIAN CHEMICALS							- 24	121423
041112		CNX LAND RESOURCES INC	12/07/2009	704.035	wv	MARSHALL	691	363	1278968
	JOE PAUL WELLMAN ET							- 000	12/6968
Q090236002	UX	NOBLE ENERGY INC	08/05/2014	2	w	MARSHALL	842	516	4360603
	THOMAS DANIEL BLUE ET		1				<u> </u>	270	1368697
0099899000	່ມx	NOBLE ENERGY INC	04/17/2016	11.4215	wv	MARSHALL	898	584	1410657

Marshall County Jan Pest, Clerk Instrument 1443137 07/19/2018 @ 02:57:34 PM AGREEMENT Book 988 @ Page 286 Pages Recorded 65 Recording Cost \$ 77.00

## STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the \_\_\_\_\_\_ day of \_\_\_\_\_\_, 2018, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this \_\_\_\_\_\_  $10^{1h}$  day of \_\_\_\_\_\_, 2018 at 2:57 o'clock P\_M. TESTE: \_\_\_\_\_\_\_ TESTE: \_\_\_\_\_\_\_ Clerk.

NIK 0042 NH0109

# 4705 02116

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STATE OF WEST VIRGINIA § § COUNTY OF MARSHALL §

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ASHLEY FAVINGER

4600 J BARRY COURT STE 310

CANONSBURG PA 15317-5854

AMERICAN PETROLEUM PARTNERS OPERATING LLC.

#### ASSIGNMENT AND CONVEYANCE

:.

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this 18th day of May, 2018, and made effective December 12, 2017 (the "Effective Date"), by and between AMERICAN PETROLEUM PARTNERS OPERATING, LLC, (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated December 12, 2017 (the "Acreage Trade Agreement"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

#### WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title; and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A"; attached hereto and made a part hereof (hereinafter the "Leases"); and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right; title, and interest in and to the Leases as described below.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. <u>Assignment</u>. Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon.

TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignee or its designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

2. <u>Special Warranty</u>. Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the

Marshall County Jan Pest, Clerk Instrument 1440860 05/25/2018 @ 02:36:09 PM ASSIGNMENTS Book 42 @ Page 109 Pages Recorded 9 Recording Cost \$ 15.00

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Office of Oil and Gas

## AUG 1 4 2018

W Department of Environmental Protection

WY-AGIR-00C

WHEN RECORDED RETURN TO: THE Exploration II. ILC 1320 South University Drive, Suite, 500 Fort Word, Texas 76107 Attu: David Kalish Jap Pest Marshall County 01:22:35 P Instrument No 1403:499 Date Recorded 04/27/2016 Datament Type ASN Pases Recorded 77 Book Pase 56-9 Recording Fee \$77.00 Additional. \$13.00

Execution Version

#### ASSIGNMENT AND BILL OF SALE

§.

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STATE OF WV

#### KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF MARSHALL

THIS ASSIGNMENT AND BILL OF SALE (this "Assignment"), dated April 7, 2015, but effective as of 7:00 A.M. Honston time in lanuary 1, 2016 (the "Effective Time"), is between Gastar Exploration Inc. a Delaware corporation, whose address is 1331 Lamar Street, Suife 650 Houston, Texas 77010 ("Assignor"), and TH Exploration II, LLC, a Texas limited lightlity, company, whose address is 1320 South University Drive, Suife 500, Fort Worth, Texas 76107 ("Assignee"). Assignor and Assignee are each, individually, referred to herein as a "Party" and collectively, as the "Partley".

Capitalized terms used but not defined herein shall have the respective meanings set forth in that certain Purchase and Sale Agreement (the "*Parelique Agreement*"), dated as of February 19, 2016, by and between Assignor and Assignice (as successor-in-increast).

Section 1. <u>Assignment</u>. The conveyance and assignment herein shall be deemed effective as of the Effective Time.

For Ten Dollans (\$10,00) and other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged). Assignor does hereby forsver (RANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, SET OVER AND DELLVER unto Assignee, all of Assignor's right, title and interest in and to the following interests and properties (such right, title and interest described in subsections (a) through (k) of this Section 1, less and except the Excluded Assets, collectively, the "Conveyed Interests"):

(a) all oil, gas and/or mineral leases of Assigner, together with any and all other right, title and interest of Assigner in and to the leasehold estates created thereby, including subleases, royalties, overriding royalties, net profits interest; carried interests or similar rights of interests in such leases, and together with all rights, privileges, benefits and powers conferred upon Assigner, with respect to the use and occupation of the lands covered thereby that may be necessary; convenient or incidental to the possession and enjoyment of such leases, located in Marshall, Wetzel, Doddhidge, Harrison, Lewis, Marion, and Monorgalia Counties, West Wirginia and Greene, Butler, Fayette, Somerset, and Clearfield Counties, Pennsylvania, including those desoribed on <u>Exhibit A—Part 1</u> esticated herets in such leases and other right title and interest as so limited, the "*Leases*";

(b) all rights and interests in, under or derived from all unifization agreements in effect with respect to any of the Leases and the units created thereby, including those described

US 4080690

Office of Oil and Gas

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AUG 1 4'2018





August 13, 2018

WV Department of Environmental Protection Office of Oil & Gas 601 57<sup>th</sup> Street, SE Charleston, WV 25304 Attention: Laura Adkins

**RE: Wooford 4HM** 

Subject: County Route 27 Road Crossing Letter

Dear Laura:

Tug Hill Operating, LLC (THO) hereby submits this letter as confirmation that THO has obtained the right to drill, extract and produce the minerals under County Route 27 in the area reflected on the Woodford 4HM well plat. THO has conducted a full title search in the relevant Court House to confirm its ownership under said County Routes and is not currently aware of any recorded document that would suggest an ownership other than THO.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111, or by email at amiller@tug-hillop.com.

Sincerely,

Amy Miller Permit Specialist – Appalachia Region Cell 304-376-0111 Email: amiller@tug-hillop.com RECEIVED Office of Oil and Gas

AUG 1 4 2018

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 08/13/2018

API No. 47- 051 -	
Operator's Well No. Woo	dford 4HM
Well Pad Name: Woodfo	rd

4705 02116

#### Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	516,092.94
County:	Marshall	Northing:	4,406,032.90
District:	Franklin	Public Road Access:	Burch Ridge Road (County Route 26)
Quadrangle:	Powhatan Point 7.5	Generally used farm name:	CNX RCPC, LLC
Watershed:	French Creek - Ohio River (HUC 10)		· · · · ·

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	OOG OFFICE USE	
*PLEASE CHECK ALL THAT APPLY	ONLY	
I. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED	
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED	RECEIVED	
□ 3. NOTICE OF INTENT TO DRILL OF INTERVIEW OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED RECEI Office of O	VED and Gas
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	AUG 14	
■ 4. NOTICE OF PLANNED OPERATION	WV Depar RECEIEMVIDonmenta	tment of Protection
5. PUBLIC NOTICE	RECEIVED	
6. NOTICE OF APPLICATION		

#### **Required Attachments:**

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

#### Certification of Notice is hereby given:

## THEREFORE, I Amy L. Miller

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

4705 \* 02116

Well Operator:	Tug Hill Operating, LLC		Address:	380 Southpointe Boulevard, Plaza II, Suite 2	200
By:	Amy L. Miller	le		Canonsburg, PA 15317	
Its:	Permitting Specialist		Facsimile:	724-338-2030	
Telephone:	724-749-8388		Email:	amiller@tug-hillop.com	
CE	MMONWEALTH OF PENNSylvania NOTARIAL SEAL MAUREEN A STEAD Notary Public CHL TWP, WASHINGTON COUNTY Commission Expires Jan 28, 2019	M	ribed and swo WCLM ommission Ex	arn before me this <u>13</u> day of <u>AVG</u> <u>A Stead</u> pires/28/19	Notary Public

#### **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A (9-13) **4705** • **02116** API NO. 47- 051 OPERATOR WELL NO. Woodford 4HM Well Pad Name: Woodford

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 8/9/2018 Date Permit Application Filed: 8/10/2018

Notice	of:
--------	-----

$\checkmark$	PERMIT FOR ANY	L
	WELL WORK	

## CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: CNX Land Resources, LLC Attn: Casey Saunders	Name: Murray Energy Corporation	
Address: 1000 Consol Energy Drive	Address: 46226 National Park Road W	
Canosnburg, PA 15318 (Well Pad)	St. Clairsville, OH 43950 (*See attached list)	RECEIVED Office of Oil and Gas
Name: Woodland Hill Church of God c/o Margirene W. Keefe, Trustee	COAL OPERATOR	Office of Oil and Gas
Address: 8669 Kossuth Amanda Road	Name:	ALLC 1 LIDOLD
Spencerville, OH 45887 (Access Road)	Address:	— AUG <b>1</b> 4'2018
SURFACE OWNER(s) (Road and/or Other Disturbance)		MA Departure
Name: Linda E. Hamilton (Access Road) * See attached list	☑ SURFACE OWNER OF WATER WELL	WV Department of Environmental Protection
Address: 651 Farmall Lane	AND/OR WATER PURVEYOR(s)	
Proctor, WV 26055 (*See attached list)	Name: *See attached list	
Name:	Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS ST	TORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	

WW-6A (8-13)

API NO. 47-051 OPERATOR WELL NO. Woodford 4HM Well Pad Name: Woodford

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental fice of Oil and Gas Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environment of Environment

#### Well Location Restrictions

WV Department of Environ Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing Protection water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47-051 OPERATOR WELL NO. Woodford 4HM Well Pad Name: Woodford

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

#### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

#### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state supplies in accordance with standard accordance internets. A surface owner and water purveyor has an independent right to supply a being analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being control of of or and Gas AUG 1 4'2018

#### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of the sentence of the control W. Va. Code § 22-6A-18 requires that (b) unless reputed by one of the detended contained in the detended of th well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) **4705 02116** API NO. 47- 051 OPERATOR WELL NO. Woodford 4HM Well Pad Name: Woodford

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

#### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A	
(8-13)	

API NO. 47-051 -OPERATOR WELL NO. Woodford 4HM Well Pad Name: Woodford

## Notice is hereby given by:

Well Operat	tor: Tug Hill Opera	ating, LLC	_
Telephone:	724-749-8388		
Email: amille	r@tug-hillop.com	any wee	
		0	

Address: 38	0 Southpointe Boulevard, Plaza II, Suite 200	
Canonsburg, F	PA 15317	
Facsimile:	724-338-2030	

#### **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

Subscribed and sworn before me this	day of	AVG	1. 201B
Maureen & Stead	,	-	Notary Public
My Commission Expires	1/28	19	

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## WW-6A Additional Parties to Notice Information

## Well: Woodford 4HM

## Surface Owners (Access Road)

Edward L. Gibson (Life)	Susan Winland and Paul M. Winland
Gary E. Gibson (Remainder)	18 Happy Trails Lane
1200 Burch Ridge Road	Moundsvillę, WV 26041
Proctor, WV 26055	)
Betty J. Hamilton	Robert W. Jr. and Wendy L. Riggenbach
622 Farmall Lane	1048 Burch Ridge Road
Proctor, WV 26055	Proctor, WV 26055
Robert W. and Sharon Riggenbach	Raymond K. and Michele A. Miller
228 Farmall Lane	554 Farmall Lane
Proctor, WV 26055	Proctor, WV 26055
Anita Rae Miller – Life Estate	Raymond K. Miller (Remainder)
400 Filbert Avenue	554 Farmall Lane
Moundsville, WV 26041	Proctor, WV 26055
Gregg A. Miller (Remainder)	Gerald L. Miller (Remainder)
304 W. Brentwood Avenue	95 Bills Lane
Moundsville, WV 26041	Moundsville, WV 26041

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WW-6A

Supplement Pg. 1A

Tug Hill Operating, LLC 380 Southpointe BLVD, Suite 200 Canonsburg, PA 15317

## WATER WELL REPORT

Well:WOODFORD 4HMDistrict:FranklinCounty:MarshallState:WV

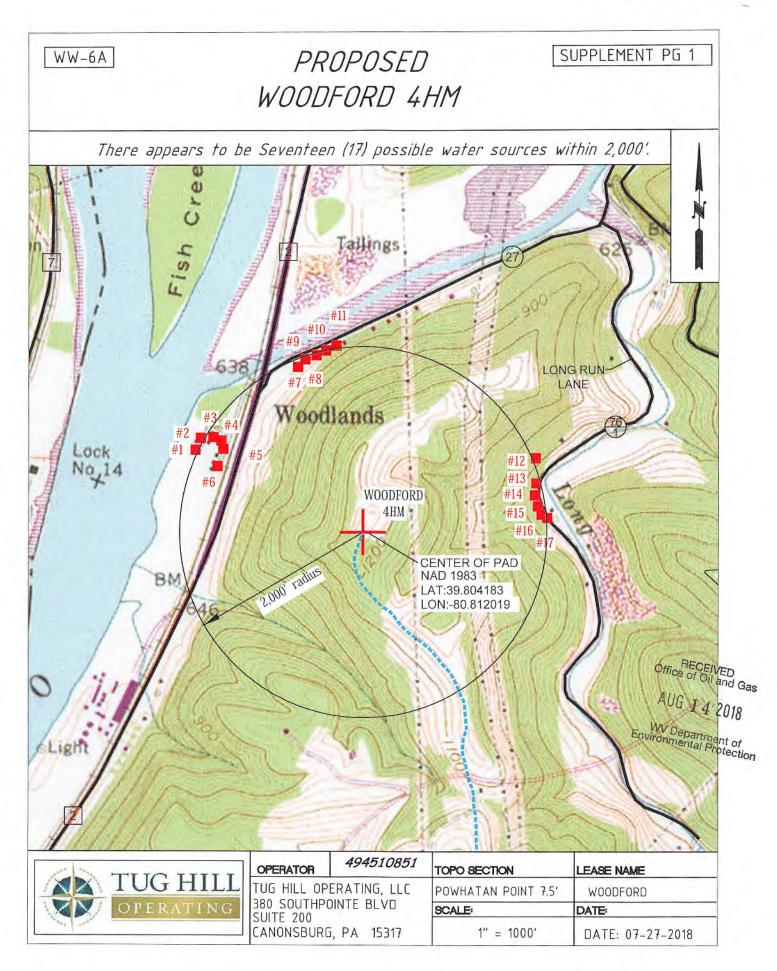
There appears to be Seventeen (17) possible water sources within 2,000 feet of the above referenced well location.

Topo Spot # 1 TM 7A Par. 26 Albert Joseph White Est. c/o Orpha Ross 304-845-4130 201 Tomlinson Ave. Moundsville, WV 26041	1	Topo Spot # 2 TM 7A Par. 27 Paul W. Barrett 304-312-1975 101 Washington Lands Rd. (Apt. E6) Moundsville, WV 26041	Topo Spot # 3 TM 7A Par. 21 David A. Beyser 304-845-4347 76 Rolling Acres Moundsville, WV 26041	
Topo Spot # 4 TM 7A Par. 20 Betty Sexton 208-888-1776 41 Dixie Ln. Wellsburg, WV 26070	٨	Topo Spot # 5 TM 7A Par. 19 Shelia R. Rutan 304-905-4379 411 Magnolia Ave. Moundsville, WV 26041)	Topo Spot # 6 TM 7A Par. 17 Carol Martin & Harry Yoho 843-384-3277 8724 Proctor Creek Rd. Proctor, WV 26055	
Topo Spot # 7 TM 7A Par. 2 CNX RCPC, LLC 724-485-4000 1000 Consol Energy Dr. Canonsburg, PA 15317	L	Topo Spot # 8 TM 7A Par. 1 Lucille Meyers 139 Graysville Rd. Proctor, WV 26055	Topo Spot # 9Office ofTM 7B Par. 25Office ofCindy D. Aliff304-771-1088304-771-1088AUG34 Steelton St.New Martinsville, WV 26155New Martinsville, WV 26155WV DepartmentTopo Spot # 12Topo Spot # 12	ECEIVED f Oil and Ga 1 4'2018
Topo Spot # 10 TM 7B Par. 26 Cindy D. Aliff 304-771-1088 34 Steelton St. New Martinsville, WV 26155	t	Topo Spot # 11 TM 7B Par. 29 Patricia A. Johnson 304-376-1338 171 Graysville Rd. Proctor, WV 26055	Topo Spot # 12 TM 7 Par. 42.1 Holly Rice 304-843-2212 657 Long Run Rd. Proctor, WV 26055	<sup>al Protection</sup>

Topo Spot # 13 TM 7 Par. 44 Crystal B. Darrah 304-280-6747 733 Long Run Lane Proctor, WV 26055	Ĺ	Topo Spot # 14 TM 7 Par. 44 Crystal B. Darrah 304-280-6747 733 Long Run Lane Proctor, WV 26055	×	Topo Spot # 15 TM 7 Par. 42.2 Steven & Rhonda Lloyd 304-843-0171 743 Long Run Ln. Proctor, WV 26055
Topo Spot # 16 TM 7 Par. 42.3 Joshua David Hartley 304-845-1399 759 Long Run Ln, Proctor, WV 26055	~	Topo Spot # 17 TM 7 Par. 42 Tracy M. Kesterson 304-830-7356 773 Long Run Ln Proctor, WV	)	

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4705 02116



## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

	ement: Notice shall be prov	vided at least SEVEN (7) days but no more than FORTY-	FIVE (45) days prior to
entry Date of Notice: <u>6/11/2</u>	018 Date of Pla	nned Entry: <u>6/18/2018</u>	
Delivery method pu	rsuant to West Virginia C	ode § 22-6A-10a	
D PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	Ą
but no more than fort beneath such tract tha owner of minerals un and Sediment Contro Secretary, which state	y-five days prior to such en at has filed a declaration pur derlying such tract in the co l Manual and the statutes ar ement shall include contact oner to obtain copies from th	s required pursuant to this article. Such notice shall be pro- try to: (1) The surface owner of such tract; (2) to any own rsuant to section thirty-six, article six, chapter twenty-two punty tax records. The notice shall include a statement than ad rules related to oil and gas exploration and production r information, including the address for a web page on the s ne secretary.	er or lessee of coal seams of this code; and (3) any tt copies of the state Erosion nay be obtained from the
SURFACE OW		COAL OWNER OR LESSEE	
	es, LLC Attn: Casey Saunders	Name: Murray Energy Corporation	
Address: 1000 Consol Er		Address: 46226 National Park Road W	
Canosnburg, PA 15318 (Wel		St. Clairsville, OH 43950 (*See attached list)	
	h of God c/o Margirene W. Keefe, Trustee	3	
Address: 8669 Kossuth A	the second se	MINERAL OWNER(s)	RECEIVED Office of Oil and Gas
Spencerville, OH 45887 (Acc	ess Road)	Name: HG Energy II Appalachia, LLC	Office of Oil and Gas
Name: Linda E. Hamilton (	Access Road)	Address: 5260 Dupont Road	1110 1 1/2018
Address: 651 Farmall Lar	ne	Parkersburg, WV 26101 (*See attached list)	AUG 1 4'2018
Proctor, WV 26055 (*See at	tached list)	*please attach additional forms if necessary	WV Department of Environmental Protection

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	39.80419523 ; -80.81200643
County:	Marshall	Public Road Access:	Burch Ridge Road - County Route 29
District:	Franklin	Watershed:	Fish Creek - Ohio River (HUC 10)
Quadrangle:	Powhatan Point	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx

#### Notice is hereby given by:

Well Operator:	Tug Hill Operating, LLC	Address:	380 Southpointe Boulevard, Plaza II, Suite 200
Telephone:	724-749-8388		Canonsburg, PA 15317
Email:	amiller@tug-hillop.com	Facsimile:	724-338-2030

#### **Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

# 4705 02116 4705102116

## WW-6A3 Additional Parties to Notice Information

## Well: Woodford 4HM

## Surface Owners (Access Road)

Edward L. Gibson (Life)		Susan Winland and Paul M. Winland
Gary E. Gibson (Remainder)		18 Happy Trails Lane
1200 Burch Ridge Road		Moundsville, WV 26041
Proctor, WV 26055		
Betty J. Hamilton		Robert W. Jr. and Wendy L. Riggenbach
622 Farmall Lane		1048 Burch Ridge Road
Proctor, WV 26055		Proctor, WV 26055
Robert W. and Sharon Riggenbach		Raymond K. and Michele A. Miller
228 Farmall Lane		554 Farmall Lane
Proctor, WV 26055	1	Proctor, WV 26055
Anita Rae Miller – Life Estate		Raymond K. Miller (Remainder)
400 Filbert Avenue	1	554 Farmall Lane
Moundsville, WV 26041		Proctor, WV 26055
Gregg A. Miller (Remainder)		Gerald L. Miller (Remainder)
304 W. Brentwood Avenue	1	95 Bills Lane 💚
Moundsville, WV 26041	1	Moundsville, WV 26041

## Mineral Owners (Well Pad)

CNX Land Resources, LLC Attn: Casey Saunders 1000 Consol Energy Drive Canonsburg, PA 15318

## Coal Owners (Well Pad)

CNX Land Resources, LLC Attn: Casey Saunders 1000 Consol Energy Drive Canonsburg, PA 15318 RECEIVED Office of Oil and Gas

AUG 1 4 2018

WW-6A5 (1/12)

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

 Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

 Date of Notice:
 08/10/2018

 Date Permit Application Filed:
 08/13/2018

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

Ш	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Woodland Hill Church of God c/o Margirene W. Keefe, Trustee			
Address: 8669 Kossuth Amanda Road			
Spencerville, OH (Access Road) * See Attached List			

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 82	Easting:	516,092.94	
County:	Marshall	UTM NAD 83	Northing:	4,406,032.90	
District:	Franklin			Burch Ridge Road (County Route 29)	
Quadrangle:	Powhatan Point 7.5'			CNX RCPC, LLC	
Watershed:	French Creek - Ohio River (HUC 10)				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/gillind-gas/pages/default.aspx.

Well Operator:	Tug Hill Operating, LLC	Address:	380 Southpointe Boulevard, Plaza II, Suite 200	AUG 1 4'2018
Telephone:	724-749-8388		Canonsburg, PA 15317	144/0
Email:	amiller@tug-hillop.cm	Facsimile:	724-749-8388	WV Department of Environmental Protection

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

# 4705 02116

## WW-6A5 Additional Parties to Notice Information

# Well: Woodford 1HM, Woodford 2HM, Woodford 3HM and Woodford 4HM

Edward L. Gibson (Life)		Susan Winland and Paul M. Winland	
Gary E. Gibson (Remainder)		18 Happy Trails Lane	
1200 Burch Ridge Road		Moundsville, WV 26041	
Proctor, WV 26055		1	
Betty J. Hamilton		Robert W. Jr. and Wendy L. Riggenbach	
622 Farmall Lane		1048 Burch Ridge Road	
Proctor, WV 26055		Proctor, WV 26055	
Robert W. and Sharon Riggenbach		Raymond K. and Michele A. Miller	
228 Farmall Lane		554 Farmall Lane	
Proctor, WV 26055		Proctor, WV 26055	
Anita Rae Miller – Life Estate		Raymond <sub>\</sub> K. Miller (Remainder)	
400 Filbert Avenue		554 Farmall Lane	
Moundsville, WV 26041		Proctor, WV 26055	
Gregg A. Miller (Remainder)		Gerald L. Miller (Remainder)	
304 W. Brentwood Avenue		95 Bills Lane	
Moundsville, WV 26041		Moundsville, WV 26041	
Linda E. Hamilton			
651 Farmall Lane /			
Proctor, WV 26055	,		

## Surface Owners (Access Road)

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# AUG 1 4 2018

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# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 1900 Kanawha Boulevard East • Building Five • Room 110

Charleston, West Virginia 25305-0430 • (304) 558-3505

June 19, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permits for the Woodford Well Pad, Marshall County

Woodford 4HM

Dear Mr. Martin,

This well site will be accessed from Permit #06-2018-0460 issued to Tug Hill Operating for access to the State Road for a well site located off of Marshall County Route 29 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Davy K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator RECEIVED Office of Oil and Gas

AUG 1 4'2018

WV Department of Environmental Protection

Cc: Jonathan White Tug Hill Operating CH, OM, D-6 File



#### PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Woodford 4HM	VI		
PRODUCT NAME:	CHEMICAL DESCRIPTION:	PRODUCT USE:	HAZARDOUS COMPONENT:
GBW-20C	Hemicellulase Breaker	Breaker - Water	None
ALPHA 1427		Biocide	Glutaraldehyde – CAS#000111-30-8 Quatemary ammonium chloride CAS# 007173-51-5 Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1 Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5
FRAC SAND	Silica Sand (various Mesh sizes)	Proppant	Crystalline silica (quartz) CAS# 14808-60-7
S-8C, Sand	Silica Sand (100 mesh)	Sand	Silica – CAS# 14808-60-7
GW-3LDF		Gellant - Water	Petroleum Distillate Blend – Proprietary, (Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0
FRW-18		Friction Reducer	Hydrotreated light distillate CAS# 064742-47-8
Scaletrol		Scale Inhibitor	Ethylene glycol – CAS# 000107-21-1 Diethylene glycol – CAS# 000111-46-6 RECEIVED Office of Oil and Gas

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