

west virginia department of environmental protection

Office of Oil and Gas 601 57th 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 2HM 47-051-02114-00-00

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

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Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 10/23/2018 WOODFORD 2HM CNX RCPC, LLC 47-051-02114-00-00 New Drill

Promoting a healthy environment.

PERMIT CONDITIONS 4705102114

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

- 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 shall be flow tested by the operator upon request of the drinking well owner prior to operating 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 4705102114

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.

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API NO. 47-051

OPERATOR WELL NO. Woodford 2HM Well Pack Name: Woodford

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: Tug Hill	Operating, LLC	494510851	Marshall	Franklin	Powhatan Point 7
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Woodford 2HM	Well F	ad Name: Wo	odford	
3) Farm Name/Surface Own	er: CNX RCPC, L	LC Public R	oad Access: B	urch Ridge Ro	oad (County Route 29)
4) Elevation, current ground	: 1250'	Elevation, propose	ed post-construc	ction: 1233.	51
5) Well Type (a) Gas X Other	Coll_	Un	nderground Stor	age	
(b)If Gas	Shallow x	Deep			1 100
	Horizontal x			A	218/8
6) Existing Pad: Yes or No	No		_	0	21
7) Proposed Target Formatio		· · · · · · · · · · · · · · · · · · ·			
Marcellus is the target format		- 6369', thickness o	f 50° and an antic	ipated approx.	pressure of 3800 psi.
8) Proposed Total Vertical D	Depth: 6469'				
9) Formation at Total Vertice	al Depth: Ononda	iga			
10) Proposed Total Measure	d Depth: 14,560'				
11) Proposed Horizontal Leg	g Length: 7,141.7	2'			
12) Approximate Fresh Wate	er Strata Depths:	70'; 805'			
13) Method to Determine Fre	esh Water Depths:	Use shallow offset wells to determine de	eepest freshwater. Or determine us	ing predrill tests, testing while	e drilling or petrophysical evaluation of resistivity
14) Approximate Saltwater I	Depths: 1,740'				
15) Approximate Coal Seam	Depths: Sewickle	y Coal - 701' and	l Pittsburgh Co	oal - 799'	
16) Approximate Depth to Pe	ossible Void (coal r	nine, karst, other):	None		Office of Oil and Gas
17) Does Proposed well loca directly overlying or adjacen	Children and a strategy of the second second second		Ν	to x	AUG 1 4 2018
(a) If Yes, provide Mine In	fo: Name:				WV Department of Environmental Protection
	Depth:				
	Seam:				
	Owner:				

WW-6B (04/15)

API NO. 47- 051 -____

OPERATOR WELL NO. Woodford 2HM Well Pad Name: Woodford

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> <u>(lb/ft)</u>	<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'	892ft^3(CTS)
Production	5 1/2"	NEW	P110	20#	14,560'	14,560'	3720ft^3(CTS)
Tubing	2 3/8"	NEW	N80	4.7#	6,912'		
Liners							

y 8/8/18

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	<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							

PACKERS

Kind:	N/A	RECEIVED Office of Oil and Gas
Sizes:	N/A	AUG 1 4 2018
Depths Set:	N/A	WV Department of Environmental Protection

WW-6B (10/14)

4705 102114 API NO. 47-051

8/18/18

OPERATOR WELL NO. Woodford 2HM Well Pad Name: Woodford

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 18,000,000 lb. proppant and 278,293 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:

*See attachment

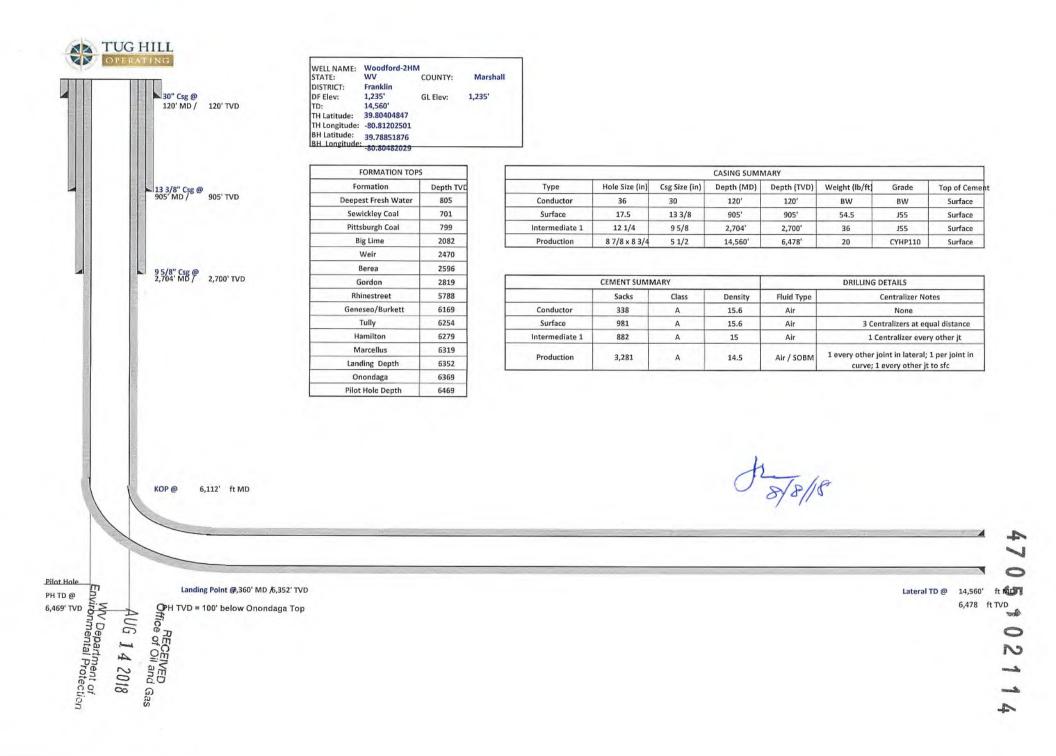
25) Proposed borehole conditioning procedures:

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

AUG 1 4 2018

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.





Tug Hill Operating, LLC Casing and Cement Program

Woodford-2HM

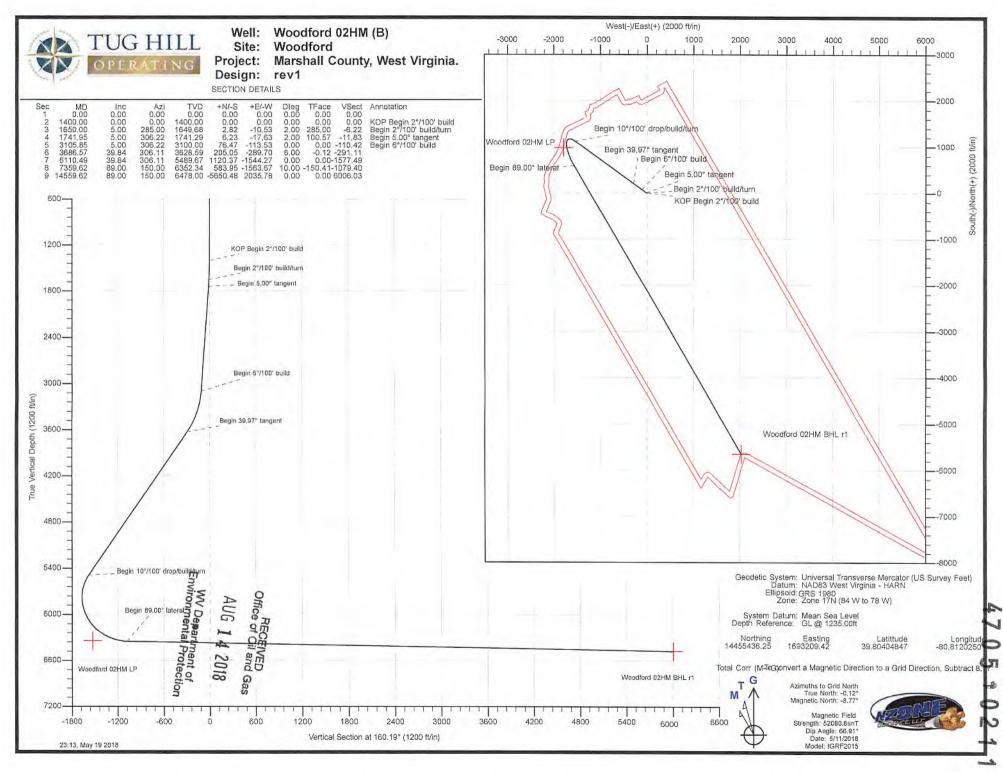
		Ca	sing		
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	13 3/8"	J55	17 1/2"	905'	CTS
Intermediate	9 5/8"	J55	12 1/4"	2,704'	CTS
Production	5 1/2"	CYHP110	8 7/8 x 8 3/4	14,560'	CTS

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

RECEIVED Office of Oil and Gas

AUG 1 4 2018





Database: Company: Project: Site: Well: Wellbore: Design:	Tug H Mars Wood Wood	lul2216dt_v14 Hill Operating L hall County, W dford dford 02HM (B) nal Hole	est Virginia.		Local Co-ordinate Reference:Well Woodford 02HM (B)TVD Reference:GL @ 1235.00ftMD Reference:GL @ 1235.00ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature							
Project	Marsh	all County, We	st Virginia.						annan das			
Map System: Geo Datum: Map Zone:	NAD83	al Transverse West Virginia - 7N (84 W to 78	HARN	Survey Feet)	System Dat	tum:	Me	ean Sea Level				
Site	Wood	ford										
Site Position: From: Position Uncert		t/Long	Eas	thing: ting: : Radius:		,471.78 usft ,217.70 usft 13-3/16 "	Latitude: Longitude: Grid Converg	ence:		39.80414597 -80.81199526 0.12 °		
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Wellbore	Origir	nal Hole					+					
Magnetics	м	odel Name	Sam	ple Date	Declina (°)	tion	Dip A ('		Field Streng (nT)	gth		
		IGRF2015	5	5/11/2018		-8.65		66.91	52,090.58	8382122		
Design	rev1											
Audit Notes: Version:			Pha	ise:	PLAN	Tie	On Depth:	- 3	0.00			
Vertical Section	1:		Depth From ((ft) 0.00	TVD)	+N/-S (ft) 0.00	(ft) .00		ection (°) 0.19			
Plan Survey To Depth Fro (ft) 1	om Dep (1	Date th To t) Survey 559.62 rev1 (C	y (Wellbore)		Tool Name MWD MWD - Standa	ard	Remarks					
Plan Sections				alitenaltinen ananteitatan	feature and stagestory when	and the second		a dimensional second	an - Ar - Aranananan			
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target		
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7,359.62	89.00											

COMPASS 5000.14 Build 85

4705 + 02114



TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

4705 * 02114

Well Woodford 02HM (B)

GL @ 1235.00ft

GL @ 1235.00ft

Minimum Curvature

Grid

Database: Company: Project: Site: Well: Wellbore: Design:

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia. Woodford Woodford 02HM (B) Original Hole rev1

Planned Survey

3,800.00 39,84 306.11 3,715.68 247.89 -348.41 14,455,684.14 1,692,861.01 39,80473123 -80.81326370 3,900.00 39,84 306.11 3,792.46 285.65 -400.16 14,455,721.90 1,692,809.26 39,80483523 -80.81326370 4,000.00 39,84 306.11 3,869.24 323.41 -451.92 14,455,759.66 1,692,757.50 39,80493923 -80.81363173 4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,705.74 39.80504323 -80.81381574	Planned Su	urvey									
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2,300.00 5.00 306.22 2,297.22 34.97 -56.87 14,455,471.22 1,693,152.55 39,80414482 -80.81222725 2,400.00 5.00 306.22 2,396.84 40.12 -63.90 14,455,476.37 1,693,145.52 39,80414591 -80.8122725 2,500.00 5.00 306.22 2,496.46 45.27 -70.93 14,455,481.52 1,693,138.49 39,80417319 =80.81220224 2,600.00 5.00 306.22 2,695.70 55.57 -85.00 14,455,491.82 1,693,131.45 39,8042156 =80.81232724 2,800.00 5.00 306.22 2,795.31 60.72 -92.03 14,455,496.67 1,693,117.39 39,8042156 =80.81232723 3,000.00 5.00 306.22 2,794.55 71.02 -106.09 14,455,502.12 1,693,103.33 39.80422993 =80.81237723 3,100.00 5.00 306.22 3,094.17 76.17 -113.12 14,455,512.42 1,693,085.54 39.80425912 =80.81242723 3,100.00 5.00 306.12 3,193.24 84.30 117.76 -170.07 14,455,579.5	2,100	0.00	5.00	306.22	2,097.98	24.67	-42.81	14,455,460.92	1,693,166.61		
2,400.00 5.00 306.22 2,396.84 40.12 -63.90 14,455,476.37 1,693,145.52 39.80415901 -80.8122525 2,500.00 5.00 306.22 2,496.46 45.27 -70.93 14,455,486.67 1,693,134.45 39.80417319 -80.8122724 2,600.00 5.00 306.22 2,695.70 55.57 45.00 14,455,486.67 1,693,131.45 39.80418738 -80.8123274 2,800.00 5.00 306.22 2,695.70 55.57 -92.03 14,455,496.97 1,693,117.39 39.80421574 -80.8123274 2,900.00 5.00 306.22 2,994.93 65.87 -99.06 14,455,507.27 1,693,103.33 39.80421574 -80.8123274 3,000.00 5.00 306.22 3,094.17 76.17 -113.12 14,455,507.27 1,693,096.30 39.80425829 -80.8124723 3,105.85 5.00 306.22 3,094.17 76.17 -113.12 14,455,507.27 1,693,096.30 39.80425912 -80.8124724 3,000.00 10.65 306.16 3,193.24 84.03 -123.88 1,4455,512.72 1,693,085	2,200	0.00	5.00	306.22	2,197.60	29.82	-49.84	14,455,466.07	1,693,159.58		
2,500,00 5.00 306,22 2,496,46 45,27 -70.93 14,455,481,52 1,693,138,49 39.80417319 -80.8122724 2,600,00 5.00 306,22 2,596,08 50.42 -77.97 14,455,486,67 1,693,131,45 39.80418738 -80.81230224 2,700,00 5.00 306,22 2,695,70 55,57 -85,00 14,455,491,82 1,693,124,42 39.80421574 -80.8123224 2,800,00 5.00 306,22 2,795,31 60.72 -92.03 14,455,491,82 1,693,117.39 39.80421574 -80.8123223 3,000,00 5.00 306,22 2,994,55 71.02 -106,09 14,455,507,27 1,693,103,33 39.804241574 -80.81242223 3,100,00 5.00 306,22 3,094,17 76.17 -113,12 14,455,512,42 1,693,096,30 39.80425829 -80.81242283 3,105,85 5.00 306,16 3,193,24 84,03 -123,88 14,455,520,28 1,693,095,54 39.80427995 -80.81242723 3,000,00 16,65 306,16 3,193,24 84,03 -123,88 14,455,542,01 1,	2,300	0.00	5.00								
2,600.00 5.00 306.22 2,596.06 50.42 -77.97 14,455,486.67 1,693,131.45 39.80418738 -80.81230224 2,700.00 5.00 306.22 2,695.70 55.57 -85.00 14,455,496.67 1,693,117.39 39.80421574 -80.81232224 2,800.00 5.00 306.22 2,795.31 60.72 -92.03 14,455,496.97 1,693,117.39 39.80421574 -80.81230224 2,900.00 5.00 306.22 2,894.93 65.87 -99.06 14,455,502.12 1,693,110.36 39.80421574 -80.81240223 3,000.00 5.00 306.22 3,094.17 76.17 -113.12 14,455,512.42 1,693,096.30 39.80425812 -80.81240223 3,105.85 5.00 306.22 3,00.00 76.47 -113.53 14,455,520.28 1,693,085.54 39.80425912 -80.81246269 Begin 6*/100* build T 3,200.00 10.65 306.14 3,290.37 97.94 -142.92 14,455,520.28 1,693,085.54 39.80427995 -80.81263317 3,400.00 22.65	2,400	0.00	5.00					14,455,476.37			
2,700.00 5.00 306.22 2,695.70 55.57 -85.00 14,455,491.82 1,693,124.42 39.80420156 -80.81232724 2,800.00 5.00 306.22 2,795.31 60.72 -92.03 14,455,496.97 1,693,117.39 39.80421574 -80.81235223 2,900.00 5.00 306.22 2,894.93 65.87 -99.06 14,455,502.12 1,693,110.36 39.80422993 -80.81237723 3,000.00 5.00 306.22 2,994.55 71.02 -106.09 14,455,512.42 1,693,103.33 39.80424411 -80.81247723 3,100.00 5.00 306.22 3,094.17 76.17 -113.53 14,455,512.42 1,693,095.89 39.80422993 -80.81242723 3,105.85 5.00 306.12 3,193.24 84.03 -123.88 14,455,520.28 1,693,085.54 39.80427995 -80.81248546 3,200.00 10.65 306.12 3,193.24 84.03 -123.88 14,455,554.20 1,693,095.54 39.80427995 -80.81248546 3,000.00 10.65 306.12 3,193.24 84.03 -123.88 14,455,554.20 <t< td=""><td>2,500</td><td>0.00</td><td>5.00</td><td></td><td>2,496.46</td><td>45.27</td><td></td><td>14,455,481.52</td><td></td><td></td><td></td></t<>	2,500	0.00	5.00		2,496.46	45.27		14,455,481.52			
2,800.00 5.00 306.22 2,795.31 60.72 -92.03 14,455,496.97 1,693,117.39 39,80421574 -80,81235223 2,900.00 5.00 306.22 2,894.93 65.87 -99.06 14,455,502.12 1,693,110.36 39,80422993 -80,8123723 3,000.00 5.00 306.22 2,994.55 71.02 -106.09 14,455,507.27 1,693,103.33 39,80424411 -80,81240223 3,100.00 5.00 306.22 3,094.17 76.17 -113.53 14,455,512.42 1,693,096.30 39,80425629 -80,81242723 3,105.85 5.00 306.22 3,094.17 76.17 -113.53 14,455,512.72 1,693,095.89 39,80425692 -80,81242680 Begin 6*/100* bulld 3,200.00 10.65 306.14 3,290.37 97.94 -142.92 14,455,542.00 1,693,085.54 39,80427995 -80,8126546 3,300.00 16.65 306.12 3,474.61 143.26 -205.02 14,455,541.01 1,693,039.35 39,8043795 -80,81264546 3,600.00 34.65 306.12 3,559.70	2,600	0.00	5.00	306.22	2,596.08			14,455,486.67	1,693,131.45		
2,900.00 5.00 306.22 2,894.93 65.87 -99.06 14,455,502.12 1,693,110.36 39.80422993 -60.81237723 3,000.00 5.00 306.22 2,994.55 71.02 -106.09 14,455,507.27 1,693,103.33 39.80424411 -80.81240223 3,100.00 5.00 306.22 3,094.17 76.17 -113.12 14,455,512.42 1,693,096.30 39.80425829 -80.81242723 3,105.85 5.00 306.22 3,09.00 76.47 -113.53 14,455,512.72 1,693,095.89 39.80425912 -80.81242723 3,200.00 10.65 306.16 3,193.24 84.03 -123.88 14,455,520.28 1,693,085.54 39.80427995 -80.81246546 3,300.00 16.65 306.14 3,290.37 97.94 -142.92 14,455,554.01 1,693,085.54 39.80437965 FECEIVF98.81262968 3,500.00 28.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.80437965 -80.81263317 3,600.00 34.65 306.11 3,638.20 210.12 -296.65 14,455,641.31 <td>2,700</td> <td>0.00</td> <td>5.00</td> <td></td> <td>2,695.70</td> <td></td> <td></td> <td>14,455,491.82</td> <td></td> <td></td> <td></td>	2,700	0.00	5.00		2,695.70			14,455,491.82			
3,000,00 5,00 306,22 2,994,55 71.02 -106,09 14,455,507,27 1,693,103.33 39,80424411 -80,81240223 3,100,00 5,00 306,22 3,094,17 76,17 -113.12 14,455,512.42 1,693,096.30 39,80425829 -80,81242723 3,105,85 5,00 306,22 3,100,00 76,47 -113.53 14,455,512.72 1,693,095.89 39,80425912 -80,81242869 Begin 6*/100* build 3,200.00 10,65 306,16 3,193,24 84.03 -123,88 14,455,520,28 1,693,085.54 39,80427995 -80,812455466 3,300,00 16,65 306,14 3,290,37 97.94 -142.92 14,455,540.01 1,693,086.50 39,80437985 RECEIVER9,81262668 3,500,00 28,65 306,12 3,474,61 143.26 -205,02 14,455,540.01 1,693,084.03 39,80437985 RECEIVER9,81262668 3,600,00 34,65 306,11 3,628.59 205.05 -289.70 14,455,641.31 1,692,912.77 39,80461526 14 267,333 3,686,67 39,84 306,1	2,800	0.00	5.00	306.22	2,795.31			14,455,496.97	1,693,117.39		
3,100,00 5,00 306,22 3,094,17 76,17 -113,12 14,455,512,42 1,693,096,30 39,80425829 -80,81242723 3,105,85 5,00 306,22 3,100,00 76,47 -113,53 14,455,512,72 1,693,095,89 39,80425912 -80,81242669 Begin 6°/100° build 3,200,00 10,65 306,16 3,193,24 84,03 -123,88 14,455,520,28 1,693,085,54 39,80427995 -80,81246546 3,300,00 16,65 306,14 3,290,37 97,94 -142,92 14,455,554,01 1,693,085,54 39,80427995 -80,81253317 3,400,00 22,65 306,12 3,474,61 143,26 -205,02 14,455,579,52 1,693,004,40 39,80443705 FECEIVER9,81262868 3,500,00 34,65 306,11 3,628,59 205,05 -289,70 14,455,641,31 1,692,912,77 39,80452824 -80,81290455 3,686,67 39,84 306,11 3,630,21 205,85 -290,79 14,455,642,10 1,692,919,72 39,80461526 (14 247,81 39,80461546 -80,81205459 39,80461546 -80,812	2,900	0.00	5.00	306.22	2,894.93	65.87	-99,06	14,455,502.12	1,693,110.36		
3,105.85 5.00 306.22 3,100.00 76.47 -113.53 14,455,512.72 1,693,095.89 39,80425912 -80,81242869 Begin 6*/100* build 3,200.00 10,65 306.16 3,193.24 84.03 -123,88 14,455,520.28 1,693,085.54 39,80427995 -80,81246546 3,300.00 16.65 306.14 3,290.37 97.94 -142.92 14,455,534.20 1,693,066.50 39,80437945 FECE/VEB,81262968 3,600.00 22.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39,80437945 -80,81223377 3,600.00 34.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39,804437045 of Oil area grg275393 3,600.00 34.65 306.12 3,570.0 174.18 -247.38 14,455,641.31 1,692,912.77 39,80461327 J 280,81290455 3,686.57 39.84 306.11 3,638.90 210.12 -296.65 14,455,642.10 1,692,912.77 39,80461526 J 280,8130670 39,80461526 98,80473123 -80.613057969 3,60	3,000	0.00	5.00								
Begin 6°/100' build 3,200.00 10.65 306.16 3,193.24 84.03 -123.88 14,455,520.28 1,693,085.54 39.80427995 -80.81246546 3,300,00 16.65 306.14 3,290.37 97.94 -142.92 14,455,520.28 1,693,085.54 39.80427995 -80.81246546 3,300,00 22.65 306.13 3,384.50 117.76 -170.07 14,455,554.01 1,693,039.35 39.80437955 RECEIVERS.81262968 3,500.00 28.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.8044310° of Oil area 6725393 3,600.00 34.65 306.12 3,559.70 174.18 -247.38 14,455,610.44 1,692,920.04 39.80451262 -80.81290455 3,688.68 39.84 306.11 3,628.59 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461526 1 4 247163 1 247163 1 247163 1 247163 1 247163 39.80461526 1 </td <td>3,100</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	3,100	0.00									
3,200.00 10.65 306.16 3,193.24 84.03 -123.88 14,455,520.28 1,693,085.54 39.80427995 -80.81246546 3,300,00 16.65 306.14 3,290.37 97.94 -142.92 14,455,534.20 1,693,066.50 39.80437985 RECEIVERS.81262968 3,500,00 22.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.80437985 RECEIVERS.81262968 3,600,00 34.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.804437985 -80.81290455 3,600,00 34.65 306.12 3,559.70 174.18 -247.38 14,455,641.31 1,692,912.04 39.80445126 -80.81290455 3,686.57 39.84 306.11 3,638.90 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461546 -80.81290455 3,686.68 39.84 306.11 3,638.90 210.12 -296.65 14,455,642.10 1,692,912.77 39.80461546 -80.8130586 WV Department 3,700.00 39.84 306.11 3,715.68<	3,105	5.85	5.00	306.22	3,100.00	76.47	-113.53	14,455,512.72	1,693,095.89	39.80425912	-80,81242869
3,300,00 16.65 306.14 3,290.37 97.94 -142.92 14,455,534.20 1,693,066.50 39.80431827 -80.81253317 3,400,00 22.65 306.13 3,384.50 117.76 -170.07 14,455,554.01 1,693,039.35 39.80437945 RECEIVER9.81262968 3,500,00 28.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.80437945 RECEIVER9.81262968 3,600,00 34.65 306.12 3,597.0 174.18 -247.38 14,455,610.44 1,692,962.04 39.80437945 -80.81290455 3,686.57 39.84 306.11 3,630.21 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461526 1 -40.81290455 3,688.68 39.84 306.11 3,630.21 205.85 -290.79 14,455,642.10 1,692,912.77 39.80461546 -60.51305886 WV Department of 30.700.00 39.84 306.11 3,715.68 247.89 -348.41 14,455,646.38 1,692,912.77 39.80472123 -60.81305867 3,700.00 39.84 306.11 3,715.68 </td <td>Beg</td> <td>in 6°/</td> <td>100' build</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Beg	in 6°/	100' build								
3,400.00 22.65 306,13 3,384.50 117.76 -170.07 14,455,554.01 1,693,039.35 39.80437955 RECEIVER9.81262968 3,500.00 28.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.80443705 607 Oil areg.9275393 3,600.00 34.65 306.12 3,559.70 174.18 -247.38 14,455,610.44 1,692,962.04 39.8044310 -80.81290455 3,686.57 39.84 306.11 3,628.59 205.05 -289.70 14,455,641.31 1,692,919.72 39.8046192/0 1 29794305499 3,688.68 39.84 306.11 3,630.21 205.85 -290.79 14,455,642.10 1,692,918.63 39.8046192/0 1 4 29794305499 3,680.00 39.84 306.11 3,638.90 210.12 -296.65 14,455,646.38 1,692,912.77 39.8046727297000000000000000000000000000000000	3,200	0.00	10.65	306.16	3,193.24	84.03	-123.88	14,455,520.28	1,693,085.54	39.80427995	
3,500.00 28.65 306.12 3,474.61 143.26 -205.02 14,455,579.52 1,693,004.40 39.80444310 60 Oil area,92275393 3,600.00 34.65 306.12 3,559.70 174.18 -247.38 14,455,610.44 1,692,962.04 39.80444310 60 Oil area,92275393 3,686.57 39.84 306.11 3,628.59 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461526 Oil 1 4 247.38 14,455,641.31 1,692,919.72 39.80461526 Oil 1 4 247.39 39.80461526 Oil 1 39.80461526 Oil 1 39.80461546 -60.51305886 Begin 39.97° tangent 7 7 39.8046172 Oil 1 3,715.68 247.89 -348.41 14,455,646.38 1,692,912.77 39.804627 Dimental Prof. 96 307969 38.00.00 39.804373123 -60.81526370 39.8043523 -80.81526370 39.8043523 -80.815455556 400.16 14,455,721	3,300	0,00	16.65	306.14	3,290.37	97.94	-142.92	14,455,534.20	1,693,066.50	39.80431827	-80.81253317
3,600.00 34.65 306.12 3,559.70 174.18 -247.38 14,455,610.44 1,692,962.04 39.80452824, -80.81290455 3,686.57 39.84 306.11 3,628.59 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461327 1 4 2000000000000000000000000000000000000	3,400	0.00	22.65	306.13	3,384.50	117.76	-170.07	14,455,554.01	1,693,039.35	39.80430985	CEIVE89.81262968
3,600.00 34.65 306.12 3,559.70 174.18 -247.38 14,455,610.44 1,692,962.04 39.80452824, -80.81290455 3,686.57 39.84 306.11 3,628.59 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461327 1 4 2000000000000000000000000000000000000	3,500	0.00	28.65	306.12	3,474.61	143.26	-205.02	14,455,579.52	1,693,004.40	39.80444310	OII areg. 83275393
3,686.57 39.84 306.11 3,628.59 205.05 -289.70 14,455,641.31 1,692,919.72 39.80461327 (J) 14,2701961305499 3,688.68 39.84 306.11 3,630.21 205.85 -290.79 14,455,642.10 1,692,918.63 39.80461327 (J) 14,251,015886 WV Department 3,700.00 39.84 306.11 3,638.90 210.12 -296.65 14,455,646.38 1,692,912.77 39.80461546 -80.61305866 WV Department 3,700.00 39.84 306.11 3,715.68 247.89 -348.41 14,455,646.38 1,692,912.77 39.80461546 -80.61305866 3,900.00 39.84 306.11 3,715.68 247.89 -348.41 14,455,646.38 1,692,912.77 39.80461546 -80.61305866 3,900.00 39.84 306.11 3,715.68 247.89 -348.41 14,455,5646.38 1,692,912.77 39.8046173123 -80.81326370 3,900.00 39.84 306.11 3,792.46 285.65 -400.16 14,455,751.90 1,692,809.26 39.80483523 -80.81363173 4,000.00 </td <td>3,600</td> <td>0.00</td> <td>34.65</td> <td>306.12</td> <td>3,559.70</td> <td>174.18</td> <td>-247.38</td> <td>14,455,610.44</td> <td>1,692,962.04</td> <td>39.80452824</td> <td>-80.81290455</td>	3,600	0.00	34.65	306.12	3,559.70	174.18	-247.38	14,455,610.44	1,692,962.04	39.80452824	-80.81290455
WV Department 3,700.00 39,84 306.11 3,638.90 210.12 -296.65 14,455,646.38 1,692,912.77 39.804627297 39.804627297 39.804627297 19.80473123 -80.81328370 19.80473123 -80.81328370 19.80473123 -80.81328370 19.80473123 -80.81344772 19.80463523 -80.81344772 19.80463323 -80.81344772 19.804633523 -80.813463173 19.80493923 -80.81363173 19.80493923 -80.81363173 19.80493923 -80.81363173 19.80493923 -80.81381574 4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,705.74 39.80504323 -80.81381574	3,686	6.57	39.84	306.11	3,628.59	205.05	-289.70	14,455,641.31	1,692,919.72	39.80461327 0	1 4 2801305499
3,800.00 39,84 306.11 3,715.68 247.89 -348.41 14,455,684.14 1,692,861.01 39,80473123 -80.81326370 3,900.00 39,84 306.11 3,792.46 285.65 -400.16 14,455,721.90 1,692,809.26 39,80483523 -80.81326370 4,000.00 39,84 306.11 3,869.24 323.41 -451.92 14,455,759.66 1,692,757.50 39,80493923 -80.81363173 4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,705.74 39.80504323 -80.81381574	3,688	8.68	39.84	306.11	3,630.21	205.85	-290.79	14,455,642.10	1,692,918.63	39.80461546	-80,81305886
3,800.00 39,84 306.11 3,715.68 247.89 -348.41 14,455,684.14 1,692,861.01 39,80473123 -80.81326370 3,900.00 39,84 306.11 3,792.46 285.65 -400.16 14,455,721.90 1,692,809.26 39,80483523 -80.81326370 4,000.00 39,84 306.11 3,869.24 323.41 -451.92 14,455,759.66 1,692,757.50 39,80493923 -80.81363173 4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,705.74 39.80504323 -80.81381574	Begi	in 39.	97° tangent							Envine Dep	artment
3,800.00 39,84 306.11 3,715.68 247.89 -348.41 14,455,684.14 1,692,861.01 39,80473123 -80.81326370 3,900.00 39,84 306.11 3,792.46 285.65 -400.16 14,455,721.90 1,692,809.26 39,80483523 -80.81326370 4,000.00 39,84 306.11 3,869.24 323.41 -451.92 14,455,759.66 1,692,757.50 39,80493923 -80.81363173 4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,705.74 39.80504323 -80.81381574	3,700	0.00	39,84	306.11	3,638.90	210.12	-296.65	14,455,646.38	1,692,912.77	39.804629250er	tal Pro180.81307969
4,000.00 39.84 306.11 3,869.24 323.41 -451.92 14,455,759.66 1,692,757.50 39.80493923 -80.81363173 4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,757.50 39.80493923 -80.81363173	3,800	0.00	39.84	306.11	3,715.68		-348.41	14,455,684.14	1,692,861.01	39.80473123	-80.81326370
4,100.00 39.84 306.11 3,946.02 361.17 -503.68 14,455,797.43 1,692,705.74 39.80504323 -80.81381574	3,900	0.00	39.84	306.11	3,792.46	285.65	-400.16	14,455,721.90	1,692,809.26	39.80483523	-80.81344772
	4,000	0.00	39,84	306.11	3,869.24	323.41	-451.92	14,455,759.66	1,692,757.50	39.80493923	-80.81363173
	4,100	0.00	39.84	306.11	3,946.02	361.17	-503.68	14,455,797.43	1,692,705.74	39.80504323	-80.81381574
4,200.00 39.84 306.11 4,022.80 398.93 -555.44 14,455,835.19 1,692,653.98 39.80514723 -80.81399975	4,200	0.00	39.84	306.11	4,022.80	398.93	-555.44	14,455,835.19	1,692,653.98	39.80514723	-80.81399975
4,300.00 39.84 306.11 4,099.58 436.69 -607.20 14,455,872.95 1,692,602.22 39.80525123 -80.81418377	4,300	0.00	39.84	306.11	4,099.58	436.69	-607,20	14,455,872.95	1,692,602.22	39.80525123	-80.81418377

COMPASS 5000.14 Build 85



4705 * 02114

Database: Company: Project: Well: Wellbore: Design:

Site:

Planned Survey

DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia. Woodford Woodford 02HM (B) Original Hole rev1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Woodford 02HM (B) GL @ 1235.00ft GL @ 1235.00ft Grid Minimum Curvature

easured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,400.00	39.84	306.11	4,176,36	474.46	-658,96	14,455,910.71	1,692,550,47	39.80535523	-80.81436
4,500.00	39.84	306.11	4,253.14	512.22	-710.71	14,455,948,47	1,692,498.71	39.80545923	-80.81455
4,600.00	39.84	306.11	4,329.92	549.98	-762.47	14,455,986.24	1,692,446.95	39.80556323	-80.81473
4,700.00	39.84	306.11	4,406.70	587.74	-814.23	14,456,024.00	1,692,395.19	39.80566723	-80.81491
4,800.00	39.84	306.11	4,483.48	625.50	-865.99	14,456,061.76	1,692,343,43	39.80577123	-80.81510
4,900.00	39.84	306.11	4,560,25	663.27	-917.75	14,456,099,52	1,692,291.68	39.80587522	-80.81528
5,000.00	39.84	306.11	4,637.03	701.03	-969.50	14,456,137.28	1,692,239.92	39.80597922	-80.81547
5,100.00	39.84	306.11	4,713.81	738.79	-1,021.26	14,456,175.04	1,692,188.16	39.80608322	-80.8156
5,200.00	39.84	306.11	4,790.59	776.55	-1,073.02	14,456,212.81	1,692,136.40	39.80618722	-80.81583
5,300.00	39.84	306.11	4,867.37	814.31	-1,124.78	14,456,250.57	1,692,084.64	39.80629121	-80.81602
5,400.00	39.84	306.11	4,944.15	852.08	-1,176.54	14,456,288.33	1,692,032.89	39.80639521	-80.81620
5,500.00	39.84	306.11	5,020.93	889.84	-1,228,29	14,456,326.09	1,691,981.13	39.80649920	-80.81639
5,600.00	39.84	306.11	5,097.71	927.60	-1,280.05	14,456,363.85	1,691,929.37	39.80660320	-80.81657
5,700.00	39.84	306.11	5,174.49	965.36	-1,331.81	14,456,401.61	1,691,877.61	39.80670719	-80.81676
5,800.00	39.84	306.11	5,251.27	1,003.12	-1,383.57	14,456,439.38	1,691,825.85	39.80681119	-80,8169
5,900.00	39.84	306.11	5,328.05	1.040.88	-1,435.33	14,456,477.14	1,691,774.10	39,80691518	-80.8171
6,000.00	39.84	306.11	5,404.83	1,078.65	-1,487.09	14,456,514.90	1,691,722.34	39.80701918	-80.8173
6,100.00	39.84	306.11	5,481.61	1,116.41	-1,538.84	14,456,552.66	1,691,670.58	39.80712317	-80.8174
6,110,49	39.84	306.11	5,489.67	1,120.37	-1,544.27	14,456,556.62	1,691,665,15	39,80713408	-80.8175
6.112.38	39.68	305.97	5,491.12	1,121.08	-1,545.25	14,456,557.33	1,691,664,17	39.80713604	-80.8175
	"/100' drop/bu	and the second second	111001110		14010020		decorectore		
6,200.00	32.31	297.85	5,562.00	1,148.50	-1,588.68	14,456,584.76	1,691,620.74	39.80721160	-80,8176
6,300.00	24.89	283.72	5,649.84	1,166.03	-1,632.87	14,456,602.28	1,691,576,56	39.80725996	-80.8178
6,400.00	19.69	260.93	5,742.51	1,168.37	-1,670.04	14,456,604.62	1,691,539.39	39.80726660	-80.8179
6,500.00	18.67	230.31	5,837.19	1,155.45	-1,699.06	14,456,591.71	1,691,510.36	39.80723130	-80.8180
6,600.00	22.42	203.58	5,931.02	1,127.68	-1,719.06	14,456,563.93	1,691,490.37	39.80715514	-80.8181
6,700.00	29,15	186.38	6,021.13	1,085.89	-1,729.42	14,456,522.14	1,691,480.00	39.80704043	-80,8181
6,800.00	37.27	175.65	6,104.80	1,033.35	-1,729.83	14,456,467.61	1,691,479.59	39.80689066	-80.8181
6,900.00	46.05	168.41	6,179.48	965.73	-1,720.28	14,456,401.98	1,691,489.14	39.80671038	-80.8181
7,000.00	55.17	163.08	6,242.89	891.00	-1,701.06	14,456,327.26	1,691,508.37	39.80650506	-80.8180
7,100.00	64.47	158.83	6,293.12	809.46	-1,672.75	14,456,245.71	1,691,536.68	39.80628095	-80.8179
7,200.00	73.88	155.20	6,328.64	723.56	-1,636.21	14,456,159.82	1,691,573.22	39.80604485	-80.8178
7,300.00	83.35	151.90	6,348.36	635.93	-1,592.55	14,456,072.18	1,691,616.88	39.80580394	-80.8176
7,359.62	89.00	150.00	6,352.34	583.95	-1,563.67	14,456,020.21	1,691,645.75	39.80566104	-80.8175
7,362.96	89.00	150.00	6,352.40	581.06	-1,562.00	14,456,017.32	1,691,647.42	39.80565310	-80.8175
		150.00	0,332.40	501.00	-1,002.00	14,430,017.32	1,091,047.42	39.000000010	~00.0175
	.00° lateral	150.00	0.050.05	F 48 00	4 540 40		4 004 005 04	00 00550 100	00.0475
7,400.00	89.00	150.00	6,353.05	548.99	-1,543.48	14,455,985.24	1,691,665.94	39.80556490	-80.8175
7,500.00	89.00	150.00	6,354.79	462.40	-1,493.49	14,455,898.65	1,691,715.93	39.80532683	-80.8173
7,600.00	89.00	150.00	6,356.54	375.81	-1,443.50	14,455,812.06	1,691,765.92	39.80508875	-80.8171
7,700.00	89.00	150.00	6,358.28	289.22	-1,393.51	14,455,725.47	1,691,815.92	39.80485067	-80.8169
7,800.00	89.00	150.00	6,360.03	202.63	-1,343.51	14,455,638.88	1,691,865.91	39.80461259	-80.8168
7,900.00	89.00	150.00	6,361.77	116.04	-1,293.52	14,455,552.29	1,691,915.90	39.80437451	-80.8166
8,000,00	89.00	150,00	6,363.52	29.45	-1,243.53	14,455,465.70	1,691,965.89	39.80413644	-80,8164
8,100.00	89.00	150.00	6,365.26	-57.14	-1,193.54	14,455,379,12	1,692,015.89	39.80389836	-80.8162
8,200.00	89.00	150.00	6,367.01	-143.73	-1,143.54	14,455,292.53	1,692,065.88	39.80366028	-80,8160
8,300.00	89.00	150.00	6,368.75	-230.32	-1,093.55	14,455,205.94	1,692,115.87	39.80342220	-80.8159
8,400.00	89.00	150.00	6,370.50	-316,91	-1,043,56	14,455,119.35	1,692,165.86	39,80318412	-80.8157
8,500,00	89.00	150.00	6,372.25	-403.50	-993.57	14,455,032.76	1,692,215.85	39.80294604	-80.8155
8,600.00	89.00	150.00	6,373.99	-490.09	-943.58	14,454,946.17	1,692,265.85	39.80270796	-80.8153
8,700.00	89.00	150.00	6,375.74	-576.68	-893.58	14,454,859.58	1,692,315.84	39.80246988	-80.8152
8,800.00	89.00	150.00	6,377.48	-663.27	-843.59	14,454,772.99	1,692,365.83	39.80223179	-80.8150
8,900.00	89.00	150.00	6,379.23	-749.86	-793.60	14,454,686.40	1,692,415.82	39.80199371	-80.8148
	89.00	150.00	6,380.97	-836.44	-743.61	14,454,599.81	1,692,465.82	39.80175563	-80.8146

Office of Oil and Gas

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DB_Jul2216dt_v14 Database: Tug Hill Operating LLC Company: Marshall County, West Virginia. Project: Woodford Woodford 02HM (B) Original Hole Wellbore: Design: rev1

Planned Survey

Site:

Well:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Woodford 02HM (B) GL @ 1235.00ft GL @ 1235.00ft Grid Minimum Curvature

Veasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,200.00	89.00	150.00	6,384.46	-1,009.62	-643.62	14,454,426.63	1,692,565.80	39.80127947	-80,814324
9,300.00	89.00	150,00	6,386.21	-1,096.21	-593.63	14,454,340.05	1,692,615.79	39,80104138	-80.814146
9,400.00	89.00	150.00	6,387.95	-1,182.80	-543.64	14,454,253.46	1,692,665.79	39,80080330	-80.813969
9,500.00	89.00	150.00	6,389.70	-1,269.39	-493.64	14,454,166.87	1,692,715.78	39.80056522	-80.813792
9,600.00	89.00	150.00	6,391.44	-1,355.98	-443.65	14,454,080,28	1,692,765.77	39.80032714	-80.813614
9,700.00	89.00	150,00	6,393.19	-1,442.57	-393.66	14,453,993.69	1,692,815.76	39.80008905	-80,813437
9,800.00	89.00	150.00	6,394.93	-1,529.16	-343.67	14,453,907.10	1,692,865.75	39.79985097	-80.813260
9,900.00	89.00	150.00	6,396.68	-1,615.75	-293,67	14,453,820.51	1,692,915.75	39.79961288	-80.81308
10,000.00	89.00	150.00	6,398.42	-1,702.34	-243.68	14,453,733.92	1,692,965,74	39.79937480	-80.81290
10,100.00	89.00	150.00	6,400.17	-1,788.93	-193.69	14,453,647.33	1,693,015.73	39.79913671	-80.81272
10,200.00	89.00	150.00	6,401.91	-1,875.52	-143.70	14,453,560,74	1,693,065.72	39.79889863	-80.812550
10,300.00	89.00	150.00	6,403.66	-1,962.11	-93.70	14,453,474.15	1,693,115.72	39.79866054	-80.81237
10,400.00	89.00	150.00	6,405.40	-2,048.70	-43.71	14,453,387.56	1,693,165.71	39.79842246	-80.81219
					6.28			39.79818437	-80.812018
10,500.00	89.00	150.00	6,407.15	-2,135.28		14,453,300.98	1,693,215.70	39.79794629	-80.81184
10,600.00	89.00	150.00	6,408.90	-2,221.87	56.27	14,453,214.39	1,693,265.69		-80.81166
10,700.00	89.00	150.00	6,410.64	-2,308,46	106,26	14,453,127.80	1,693,315.69	39,79770820	
10,800.00	89,00	150.00	6,412.39	-2,395.05	156.26	14,453,041,21	1,693,365.68	39.79747011	-80.81148
10,900.00	89.00	150.00	6,414.13	-2,481.64	206.25	14,452,954.62	1,693,415.67	39,79723203	-80.81130
11,000.00	89.00	150.00	6,415.88	-2,568.23	256.24	14,452,868.03	1,693,465.66	39.79699394	-80.81113
11,100.00	89.00	150.00	6,417.62	-2,654.82	306.23	14,452,781.44	1,693,515.65	39,79675585	-80.810954
11,200.00	89.00	150.00	6,419.37	-2,741.41	356.23	14,452,694.85	1,693,565.65	39.79651776	-80.81077
11,300.00	89.00	150.00	6,421,11	-2,828.00	406.22	14,452,608.26	1,693,615.64	39.79627968	-80.81059
11,400.00	89.00	150.00	6,422.86	-2,914.59	456.21	14,452,521.67	1,693,665.63	39.79604159	-80.81042
11,500.00	89.00	150.00	6,424.60	-3,001.18	506.20	14,452,435.08	1,693,715.62	39.79580350	-80.81024
11,600.00	89.00	150.00	6,426.35	-3,087.77	556.20	14,452,348.49	1,693,765.62	39.79556541	-80.81006
11,700.00	89.00	150.00	6,428.09	-3,174.36	606.19	14,452,261.91	1,693,815.61	39.79532732	-80.809890
11,800.00	89.00	150.00	6,429.84	-3,260.95	656.18	14,452,175.32	1,693,865.60	39.79508923	-80.809713
11,900.00	89.00	150.00	6,431.58	-3,347.54	706.17	14,452,088.73	1,693,915.59	39.79485114	-80.80953
12,000.00	89.00	150.00	6,433.33	-3,434.12	756.17	14,452,002.14	1,693,965.58	39.79461305	-80.80935
12,100.00	89.00	150.00	6,435.07	-3,520.71	806.16	14,451,915.55	1,694,015.58	39,79437496	-80.80918
12,200.00	89.00	150.00	6,436.82	-3,607.30	856,15	14,451,828.96	1,694,065.57	39,79413687	-80,80900-
12,300.00	89.00	150.00	6,438.56	-3,693.89	906,14	14,451,742.37	1,694,115.56	39,79389878	-80.80882
12,400,00	89.00	150.00	6,440.31	-3,780.48	956.14	14,451,655,78	1,694,165.55	39.79366069	-80.80864
12,500.00	89.00	150.00	6,442.05	-3,867.07	1,006.13	14,451,569.19	1,694,215.55	39,79342260	-80.808473
12,600.00	89.00	150.00	6,443.80	-3,953.66	1,056.12	14,451,482.60	1,694,265.54	39.79318451	-80.808294
12,700.00	89.00	150.00	6,445.55	-4,040.25	1,106,11	14,451,396.01	1,694,315.53	39.79294641	-80,808117
12,800.00	89.00	150.00	6,447.29	-4,126,84	1,156.10	14,451,309.42	1,694,365.52	39.79270832	-80.80794
12,900.00	89.00	150.00	6,449.04	-4,213.43	1,206.10	14,451,222.84	1,694,415.52	39.79247023	-80.80776
13,000.00	89.00	150.00	6,450.78	-4,300.02	1,256.09	14,451,136.25	1,694,465.51	39.79223214	-80.80758
13,100.00	89.00	150.00	6,452.53	-4,386.61	1,306.08	14,451,049.66	1,694,515.50	39.79199404	-80.807408
13,200.00	89.00	150.00	6,454.27	-4,473.20	1,356.07		1,694,565.49	39.79175595	-80.80723
13,300.00	89.00		a construction of the second			14,450,963.07			
		150.00	6,456.02	-4,559.79	1,406.07	14,450,876.48	1,694,615.48	39.79151786	-80.80705
13,400.00	89.00	150.00	6,457.76	-4,646.38	1,456.06	14,450,789.89	1,694,665.48	39.79127976	-80.806876
13,500.00	89.00	150.00	6,459.51	-4,732.97	1,506.05	14,450,703.30	1,694,715.47	39.79104167	-80.80669
13,600.00	89.00	150.00	6,461.25	-4,819.55	1,556.04	14,450,616.71	1,694,765.46	39.79080357	-80.80652
13,700.00	89.00	150.00	6,463.00	-4,906.14	1,606.04	14,450,530,12	1,694,815.45	39.79056548	-80.806344
13,800.00	89.00	150.00	6,464.74	-4,992.73	1,656.03	14,450,443.53	1,694,865.45	39,79032738	-80.806167
13,900.00	89.00	150.00	6,466.49	-5,079.32	1,706.02	14,450,356.94	1,694,915.44	39.79008929	-80.805989
14,000.00	89.00	150.00	6,468.23	-5,165.91	1,756.01	14,450,270.35	1,694,965.43	39.78985119	-80,805812
14,100.00	89.00	150.00	6,469.98	-5,252.50	1,806.01	14,450,183.76	1,695,015.42	39.78961310	-80,80563
14,200.00	89.00	150.00	6,471.72	-5,339.09	1,856.00	14,450,097.18	1,695,065.42	39.78937500	-80.80545
14,300.00	89.00	150.00	6,473.47	-5,425.68	1,905.99	14,450,010.59	1,695,115.41	39,78913691	-80,805280
14,400.00	89.00	150.00	6,475.21	-5,512.27	1,955.98	14,449,924.00	1,695,165.40	39.78889881	-80.805103
14,500.00	89.00	150.00	6,476.96	-5,598.86	2,005.98	14,449,837.41	1,695,215.39	39.78866071	-80.804925
14,559.62	89.00	150.00	6,478.00	-5,650.48	2,035.78	14,449,785.79	1,695,245.20	39.78851876	RECEI

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Office of Oil and Gas COMPASS 5000.14 Build 85

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Database: DB_Jul2216dt_v14 Local Co-ordinate Reference: Well Woodford 02HM (B) Company: Tug Hill Operating LLC **TVD Reference:** GL @ 1235.00ft Project: Marshall County, West Virginia. MD Reference: GL @ 1235.00ft Site: Woodford Grid North Reference: Woodford 02HM (B) Well: Survey Calculation Method: Minimum Curvature Original Hole Wellbore: rev1 Design:

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Woodford 02HM LP - plan misses target o - Point	0.00 center by 157.	0.00 .90ft at 6982	6,344.00 2.61ft MD (62	976.99 32.77 TVD, 9	-1,790.59 04.55 N, -170	14,456,413.24 5.07 E)	1,691,418.83	39.80674169	-80.81839352
Woodford 02HM BHL r1 - plan hits target cent - Point	0.00 ter	0.00	6,478.00	-5,650.48	2,035.78	14,449,785.79	1,695,245.20	39.78851876	-80.80482029

Measured	Vertical	Local Coor	dinates			
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment		
1,400.00	1,400.00	0.00	0.00	KOP Begin 2°/100' build		
1,650.00	1,649.68	2.82	-10.53	Begin 2°/100' build/turn		
1,741.95	1,741.29	6.23	-17.63	Begin 5.00° tangent		
3,105.85	3,100.00	76.47	-113.53	Begin 6°/100' build		
3,688.68	3,630.46	205.43	-290.70	Begin 39.97° tangent		
6,112.38	5,532.84	1,088.81	-1,505.16	Begin 10°/100' drop/build/turn		
7,362.96	6,468.02	681.00	-1,616.00	Begin 89.00° lateral		
14,612.96	6,478.00	-5,598.71	2,005.89	PBHL/TD 14612.96 MD/6478.00 TVD		

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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, <u>dducoeur@dpslandservices.com</u> 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
- 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 additional supporting information. DEP does not have 90000 series on their maps.
- 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

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

Permit well - Woodford-2HM

Wells within 500' Buffer

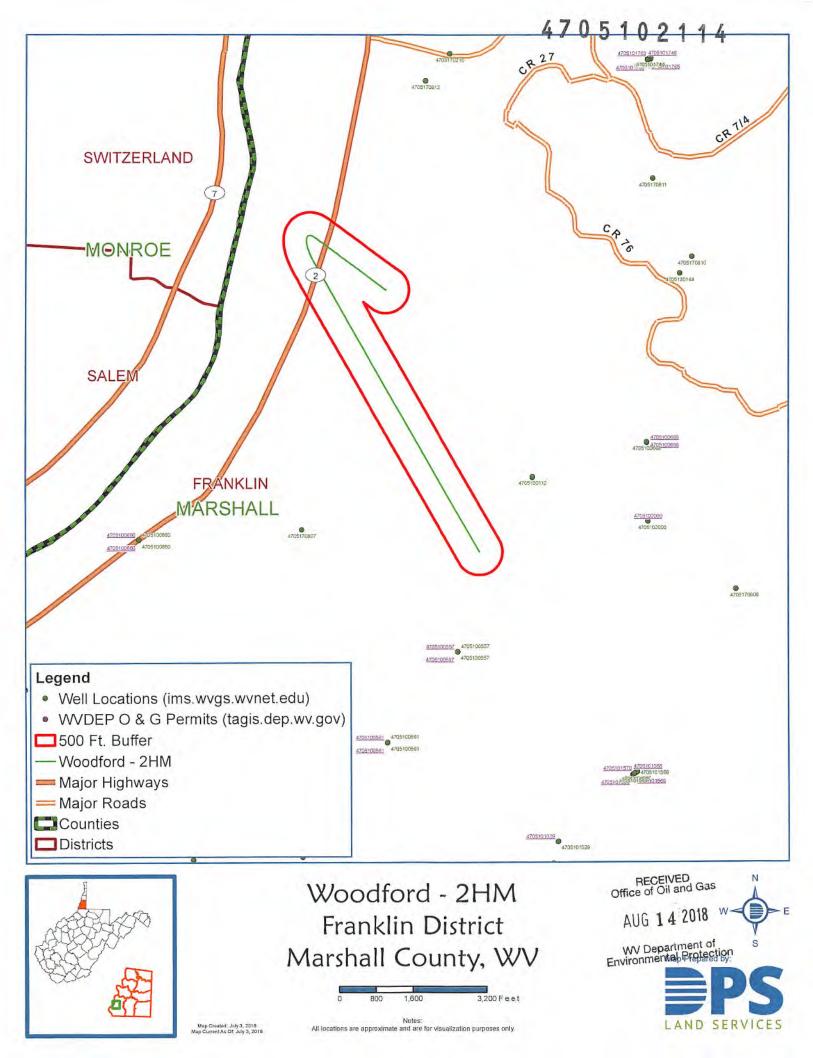
Note: Well spots depicted on Area of Review map (page 3) are derived from State held coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots

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
None	N/A	N/A	N/A	N/A	N/A	N/A

Page 2 of 4

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AUG 1 4 2018



4705 * 02114

WW-9	
(4/16)	API Number 47 - 051 -
STATE OF	Operator's Well No. <u>Woodford 2HM</u> WEST VIRGINIA
	IRONMENTAL PROTECTION
	DF OIL AND GAS
FLUIDS/ CUTTINGS DISH	POSAL & RECLAMATION PLAN
Operator Name Tug Hill Operating, LLC	OP Code 494510851
Watershed (HUC 10) French Creek - Ohio River	Quadrangle Powhatan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used? Yes <u>No</u>	olete the proposed well work? Yes No No
If so, please describe anticipated pit waste:AST Tanks	with proper containment will be used for staging fresh water for frac and flow back water
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? AST Tanks will be used with proper containing
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
	it NumberUIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523)
Reuse (at API Number	
Off Site Disposal (Supply form WV	<i>W</i> -9 for disposal location)
Other (Explain	
Will closed loop system be used? If so, describe: Yes - For Ve	ertical and Horizontal Drilling
Drilling medium anticipated for this well (vertical and horizon	tal)? Air, freshwater, oil based, etcAir for vertical / Oil for Horizontal
-If oil based, what type? Synthetic, petroleum, etcS	Synthetic Oil Base
Additives to be used in drilling medium?Barite for weight	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. All drill cuttings to be disposed of in a Landfill
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	itary Landfil (SWF-1021 / WVD109185) and Westmoreland Sanitary Landfill, LLC (SAN1405 / PA DEP EC#1386426)
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personall application form and all attachments thereto and that, base	

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AUG 1 4 2018

Subscribed and sworn before me th	is day of	AVG,	, 20_18	WV Department of Environmental Protection COMMONWEALTH OF PENNSYLVANIA
Manalia	Flack		Notary Public	NOTARIAL SEAL MAUREEN A STEAD
My commission expires	1/28/19			Notary Public CECIL TWP, WASHINGTON COUNTY

Company Official Title Vice President - Geoscience

Tug Hill Operating, LLC

Proposed Revegetation Treatment	nt: Acres Disturbed 44.34	acres Prevegetation pH	6.0
Lime 3	_ Tons/acre or to correct to p	pH 6.5	
Fertilizer type 10-20-	20		
Fertilizer amount 500		_lbs/acre	
Mulch 2.5	Ton	ns/acre	
	<u>S</u>	eed Mixtures	
Temp	orary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Orchard Grass	12
Spring Oats	96	Ladino	3
		White Clover	2

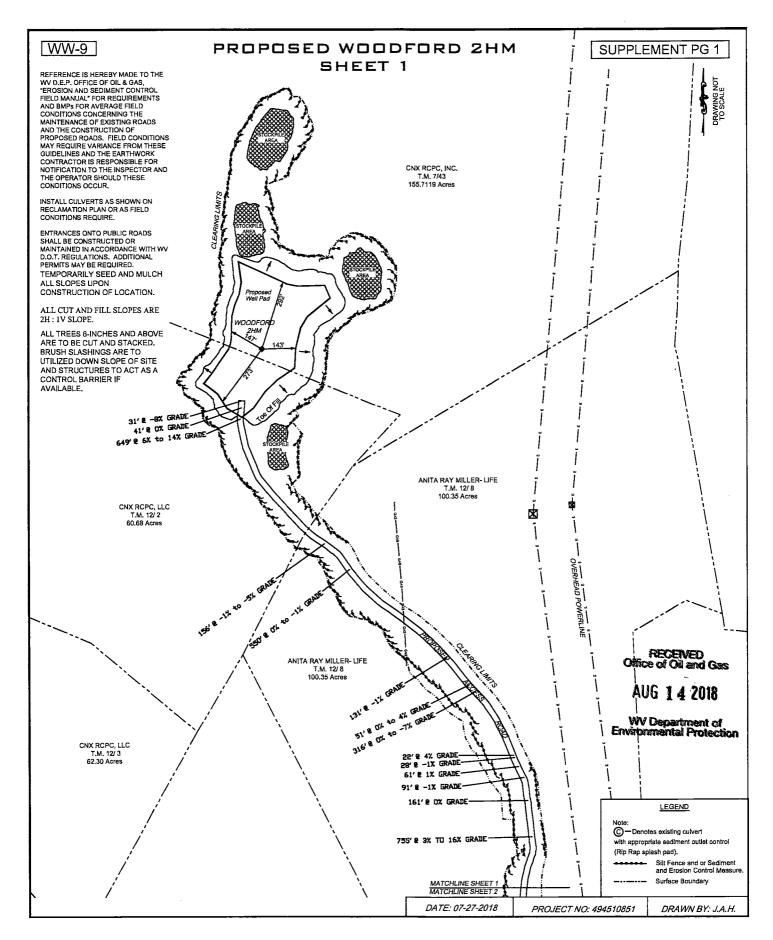
Attach:

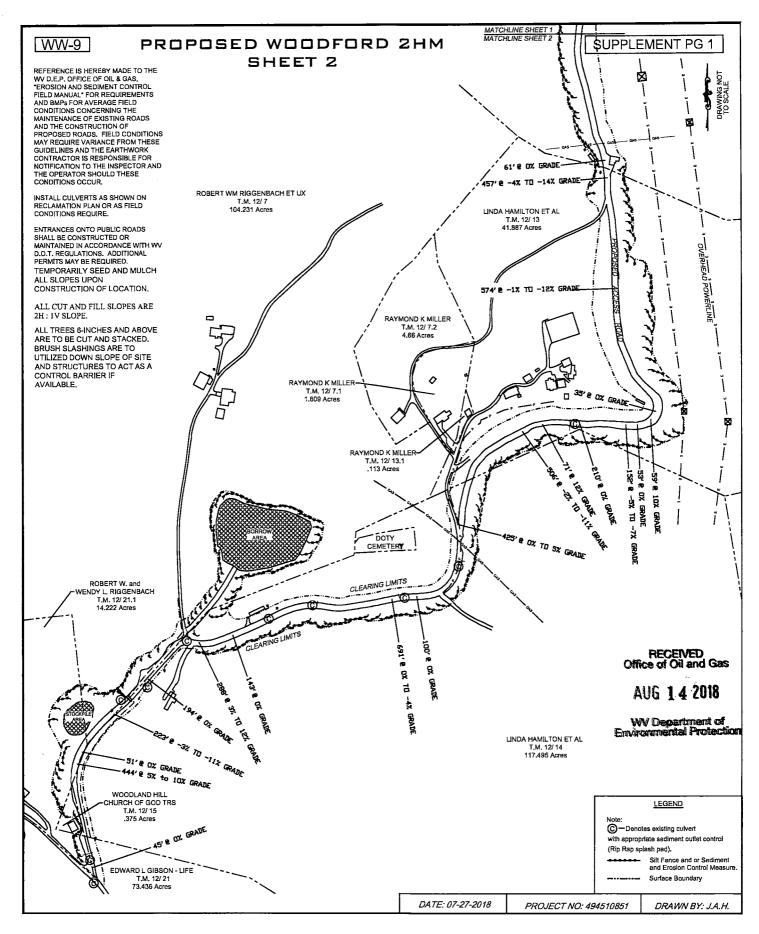
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jein Uncholon	
Comments:	
Title: Oil and Gas Inspector Date: 8/8/18	RECEIVED Office of Oil and Gas
Field Reviewed? () Yes () No	AUG 1 4 2018

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Well Site Safety Plan Tug Hill Operating, LLC

8/8/B

Well Name:Woodford 2HM

Pad Location: Woodford Pad

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:

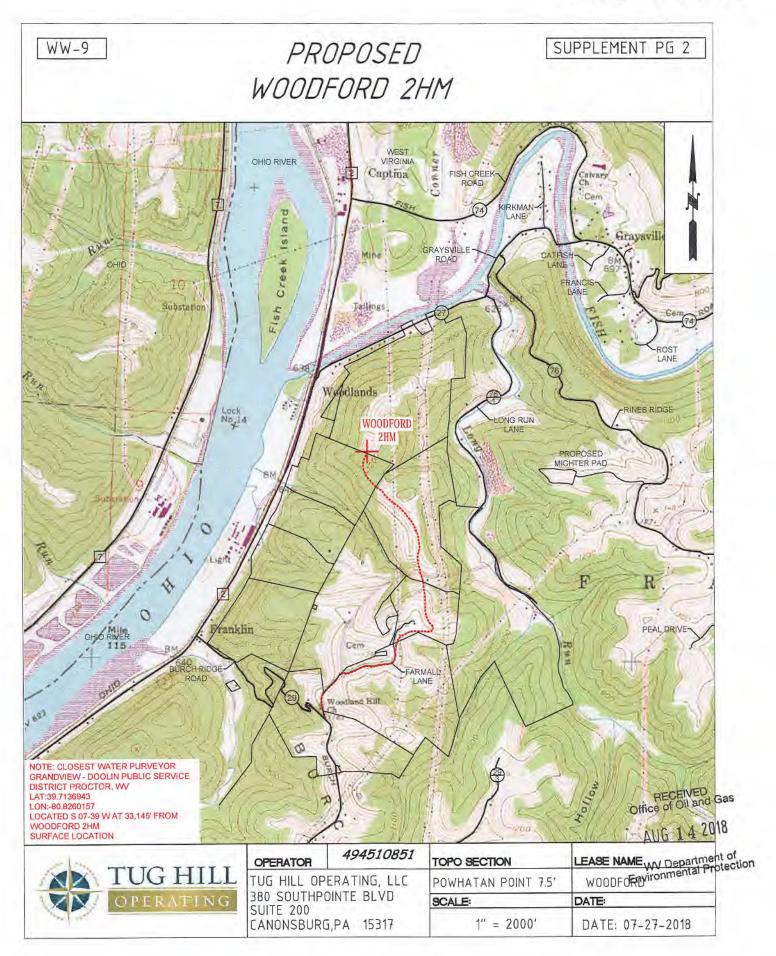
Northing: 4,406,025.78 Easting: 516,091.26

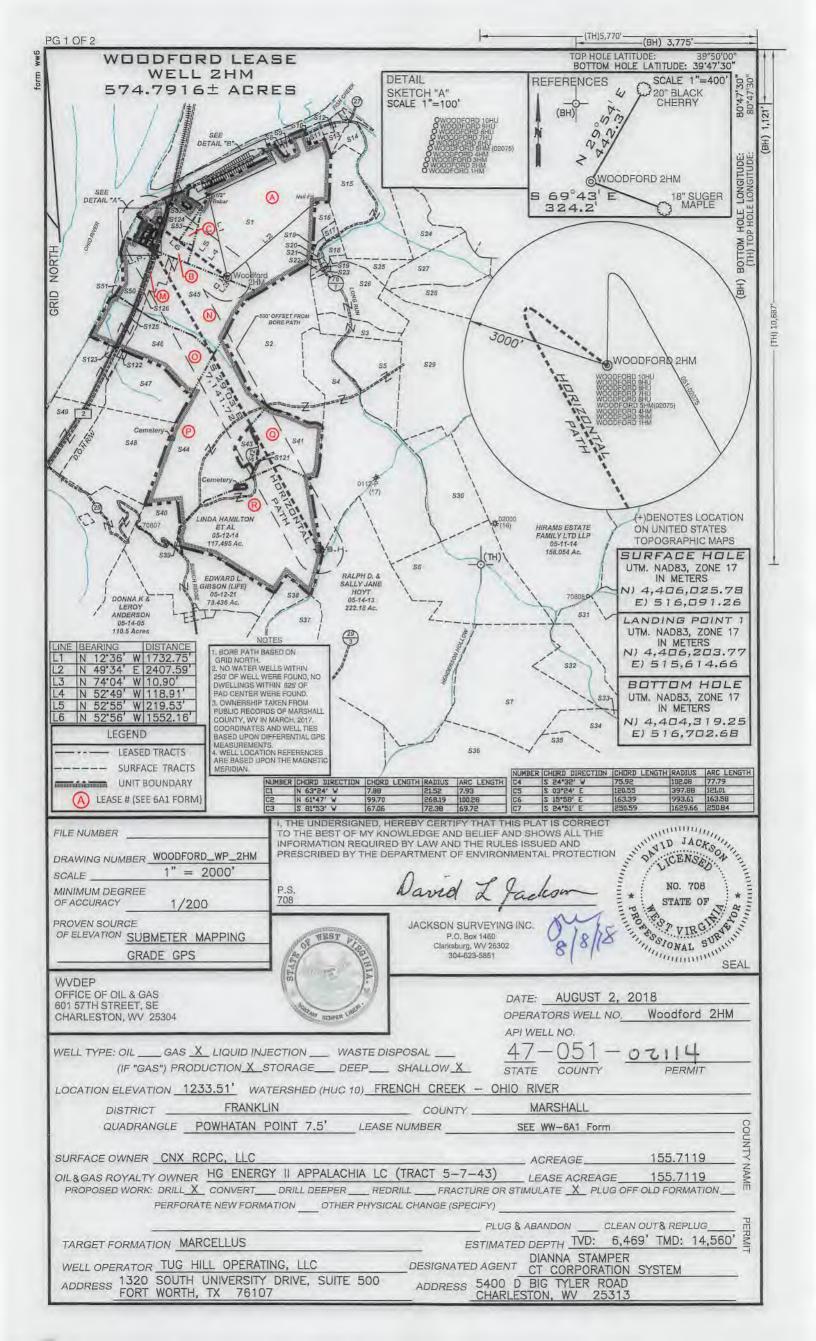
> RECEIVED Office of Oil and Gas

> > AUG 1 4 2018

WV Department of August 2014 Protection

4705 + 02114





PG 2 OF 2	WEL	DRD LEASE L 2HM 6± ACRES				DETAIL "B" Scale 1"=500'	568 7 9 9	
		\$100 \$104 \$108 \$117 \$107 \$103 \$106 \$117 \$109 \$102 \$106 \$110 \$106 \$109 \$109 \$109 \$109 \$109 \$109 \$109 \$109	19 94 19 97			enomes	569 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	0
*	S124]_Z ^{\$96}	Ē	567	EL	-0
1	570 STO	375 L576			-	\$50		-®
		DETALL "A" Scale 1"=500"			U		S126	
Number S1 S2 S3	TAX MAP-PARCEL 05-07-43 05-12-08 05-12-10	ADJOINER OWNER CNX RCPC, LLC Amita Rae Miller (Life) Consolidation Coal Co./ Murray Energy	ACRES 155.7119 100.35 13.76	Number 7 S51 S52 S53 S54	TAX MAP-PARCEL 05-12-01 05-07-43.4 05-07-43.1 05-7A-17	US o Ida State Roc	R OWNER of America Campbell ad Commission & Harry L, Yoho	ACRES 1.68 0.403 1.48 0.3067
S4 S5 S6 S7	05-12-12.1 05-12-12 05-11-15 05-15-01	Lionel L. Persinger, Et Ux. Lionel L. Persinger, Et Ux. Lionel L. Persinger, Et Ux. Marcus Sharp &	148.09 45 93 121	\$55 \$56 \$57 \$58	05-7A-18 05-7A-19 05-7A-20 05-7A-24	Barbar Barbar Bett Rick	a Anderson a Anderson y Sexton A. Kosky	0.1530 0.3060 0.1204 0.3152
S8 S9 S10 S11	05-7B-49 05-7B-48 05-07-43.3 05-07-43.2	David Schlabach, Hrs. Cassidy Rain Carpenter Cassidy Rain Carpenter M. Frank Mason M. Frank Mason	1.1441 1.325 0.327 1.36	\$59 \$60 \$61 \$62 \$63	05-7A-23 05-7A-22 05-7A-21 05-7A-25 05-7A-26	Richard David Rick Lan	Young, et ux Hyer, et ux A. Beyser A. Kosky ce Clark	0.3067 0.1530 0.1866 0.1638 0.4531
S12 S13 S14 S15 S16	05-07-38 05-07-36 05-07-35 05-07-39 05-07-42.1	John K. Persinger, Et Ux. John K. Persinger Samuel L. Persinger Lionel L. Persinger, et ux Holly Rice	2.65 4.329 10.708 57 5.99	S64 S65 S66 S67 S68	05-7A-27 05-7A-28 05-7A-29 05-7A-30 05-7A-31	Richard Richard Richard	W. Barrett Hyer, et ux Hyer, et ux Hyer, et ux Natural Resources	0.1495 0.1093 0.1085 1.9 5 3.18
517 518 519 520 521	05-07-41 05-07-42.5 05-07-42 05-07-44 05-07-42.2	James A. Wade Matthew V. Conner, et al Tracy M. Kesterson Crystal B. Darrah Steven & Rhonda Lloyd	1 3.791 0.53 1.726 0.85	\$69 \$70 \$71 \$72 \$73	05-7A-32 05-7A-02 05-7A-01 05-7B-25 05-7B-26	Dawn Tho CNX Luci Cind	mpson Tennant RCPC, LLC ille Myers ly D. Aliff ly D. Aliff	0.3091 2.23 0.529 0.1673 0.1148
S22 S23 S24 S25	05-07-42.3 05-07-42.4 05-07-33 05-12-09	Joshua David Hartley Jason Reed Hartley William N. Roupe Lionel & Mary Lee Persinger	0.886 0.94 24.6 10.15	574 575 576 577	05-7B-27 05-7B-28 05-7B-28.1 05-7B-29	Patricia Patricia Patricia Patricia	A. Johnson A. Johnson A. Johnson A. Johnson A. Johnson	0.1148 0.0574 0.0574 0.1148
S26 S27 S28	05-12-10.1 05-11-1.4 05-11-1.1	Consolidation Coal Co./ Murray Energy Larry W. Dunlap, et al Larry W. Dunlap & Charles Leroy Dunlap	38.48 32.493 34.405	578 579 580 581 582	05-7B-30 05-7B-31 05-7B-32 05-7B-33 05-7B-34	Cindy E Albert J. Albert J.	D. Aliff, et al D. Aliff, et al Anderson, Jr. Anderson, Jr. Anderson, Jr.	0.1148 0.1148 0.1148 0.1182 0.1182 0.1148
S29 S30	05-11-21 05-12-11	Karen Reed, et al Wesley B. Bryan & Wesley R. Bryan II	112.67 52.478	S83 S84 S85	05-7B-35 05-7B-36 05-7B-37	Albert J. Albert J. Teresa & Th	Anderson, Jr. Anderson, Jr. Iomas Gouldsberry	0.1217 0.1148 0.1148
S31 S32 S33 S34	05-15-04 05-15-03 05-15-02 05-15-14	Joseph J. Kramer, et ux Joseph J. Kramer, et ux John David Petrock, et ux John David Petrock, et ux	41.106 36.10 5 25	S86 S87 S88 S89	05-7B-38 05-7B-39 05-7B-40 05-7B-41	Teresa & Th Teresa & Th	iomas Gouldsberry iomas Gouldsberry iomas Gouldsberry iomas Gouldsberry	0.1148 0.1148 0.1148 0.1148
S35 S36 S37	05-15-12 05-15-15 05-14-12	John David Petrock, et ux Robert L. Shields, et al Dale R. Gallaher, et al	150.23 49 135.100	\$90 \$91 \$92	05-7B-42 05-7B-43 05-7B-44	Teresa & Th Teresa & Th Daniel D. &	iomas Gouldsberry iomas Gouldsberry Mary E. Robinson	0.1194 0.1148 0.1148
S38 S39 S40	05-14-10 05-12-15 05-12-21.1	Wanda P. Rine (Life) Woodland Hills Church of God Trs. Robert W. Jr. & Wendy L.	107,372 0.375 14.222	\$93 \$94 \$95 \$96	05-7B-45 05-7B-46 05-7B-47 05-7B-24	Daniel D. Daniel D.	Mary E. Robinson Robinson, et ux Robinson, et ux dy D. Aliff	0.1148 0.1148 0.1148 0.0354
S41 S42	05-12-13 05-12-7.1	Riggenbach Linda Hamilton, et al Raymond K. Miller	41.887 1.609	S97 S98 S99	05-7B-24 05-7B-23 05-7B-22 05-7B-21	Cinc Patricio	ly D. Aliff A. Johnson A. Johnson	0.0334 0.0471 0.0505 0.0287
S43 S44 S45	05-12-7.1 05-12-7.2 05-12-07 05-12-02	Raymond K. Miller Raymond K. Miller Robert Wm. Riggenbach, et ux CNX RCPC, LLC	4.66 104.231 60.68	S100 S101 S102	05-7B-21 05-7B-21.1 05-7B-20 05-7B-19	Patricio Patricio	A. Johnson A. Johnson A. Johnson D. Aliff, et al	0.0296 0.0626 0.0712
\$46 \$47 \$48 \$49	05-12-03 05-12-05 05-12-06 05-12-6.2	CNX LAND, LLC CNX LAND, LLC CNX RCPC, LLC Consolidation Coal Co./ Murray Energy	62.30 61.883 70.81 25.50	S103 S104 S105 S106 S107	05-7B-18 05-7B-17 05-7B-16 05-7B-15 05-7B-14	Cindy I Albert J. Albert J. Albert J.	D. Aliff, et al Anderson, Jr. Anderson, Jr. Anderson, Jr. Anderson, Jr.	0.0763 0.0849 0.0903 0.0970 0.0991
S50	05-12-2.1	Consolidation Coal Co /	22	S108 S109 S110	05-7B-13 05-7B-12 05-7B-11	Albert J. Teresa & Th	Anderson, Jr. Tomas Gouldsberry Tomas Gouldsberry	0.1067 0.1113 0.1159
annut DA	VID JACKSON	3		5111 5112 5113	05-7B-10 05-7B-09 05-7B-08	Teresa & Th Teresa & Th	nomas Gouldsberry nomas Gouldsberry nomas Gouldsberry	0.1199 0.1240 0.1286
	NO. 708 STATE OF			S114 S115 S116	05-7B-07 05-7B-06 05-7B-05	Teresa & Th Daniel D. &	nomas Gouldsberry nomas Gouldsberry Mary E. Robinson	0.1331 0.1377 0.1418
PROSE	NO. 708 STATE OF SOLUTION			<u> S117 S118 S119 S120 S121 S121 S122 S121 S122 S12 S1 S12 S12 </u>	05-7B-04 05-7B-03 05-7B-02 05-7B-01 05-12-13.1	Daniel D. Daniel D. Patricia Raymo	Mary E. Robinson Robinson, et ux Robinson, et ux L. Robinson and K. Miller	0.1458 0.1504 0.1550 1.257 0.113
P.S. 0	lavid L	Jacksom		S122 S123 S124 S125 S126	05-12-5.1 05-12-04 Rt. 2 R.R. Rt. 2	CNX State Ro CSX T	RCPC, LLC RCPC, LLC ad Commission ransportation W DOT	0.52 0.93 17.52(Calc.) 4.99(Calc.) 3.93(Calc.)
1	12	TIOII	TTT		RATER'S L #1 <u>WOOD</u>	FORD 2HM	WELL PLAT	
1		TUG H		-	RIC <u>T: Fran</u>		PAGE 2 OF DATE: 08/	
V		OPERATI	NG		NTYI <u>Mar</u> TE: <u>WV</u>	shall		,

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4705 * 02114

WW-6A1 (5/13) Operator's Well No. Woodford 2HM

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
-------------------------	-----------------------	-----------------------	---------	-----------

*See attached pages

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AUG 1 4 2018

WV Department of Environmental Protection

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 Shell
Its:	Permit Specialist - Appalachia

Page 1 of _____

WW-6A1	Supplement		€D and Gas 2018	nent of Protection							Ol	perator's W	ell No. <u>Wo</u>	odford - 2HN
Lease 🚛	Parcel	Tag	Grantor, Lessor, Etc.	Gra	ntee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
C 0 9 041112	5-7-43	А	Grantor, Lessor, Etc. Grantor, Lessor, Etc. UIIC 0 UIIC 0	Environmental Protection	K LAND RESOURCES	1/8+	691	363	N/A	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
Q088417001	STATE ROAD COMMISSION	В	WEST VIRGINIA DEPARTMENT OF TRANSPORTATI	ION NO	BLE ENERGY INC	1/8+	845	332	N/A	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
Q075763000	5-7-43.1	С	WEST VIRGINIA DEPARTMENT OF TRANSPORTATI		BLE ENERGY INC	1/8+	797	642	N/A	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
Q095360000	CSX TRANSPORTATION	D	CSX TRANSPORTATION INC	NO	BLE ENERGY INC	1/8+	879	251	N/A	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	CSX TRANSPORTATION	D	WEST VIRGINIA DEPARTMENT OF TRANSPORTATI		BLE ENERGY INC	1/8+	845	332	N/A	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

	Supplement	t	Grantor, Lessor, Etc.	Protection				·		Or	perator's V	Vell No. <u>Wa</u>	odford - 2HN
Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed B	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
C C C C C C C C C C C C C C C C C C C	5-7A-31	E	Grantor, Lessor, Etc. Grantor, Lessor, Etc. UDB UDB UDB UDB UDB UDB UDB UDB	NOBLE ENERGY INC	1/8+	865	558	N/A	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
Q091091000	5-7A-29	F	RICHARD HYER AND PATRICIA HYER	NOBLE ENERGY INC	1/8+	859	500	N/A	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
Q091091000	5-7A-28	G	RICHARD HYER AND PATRICIA HYER	NOBLE ENERGY INC	1/8+	859	500	N/A	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
Q085232000	5-7A-27	Н	PAUL W BARRETT	NOBLE ENERGY INC	1/8+	838	469	N/A	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
Q091091000	5-7A-22	1	RICHARD HYER AND PATRICIA HYER	NOBLE ENERGY INC	1/8+		500	N/A	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

4													
Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed B	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
0 5 1 0 2 1 0 5 0 5 0 0 2 1	5-7A-23	J	Grantor, Lessor, Etc.	NOBLE ENERGY INC	1/8+	828	252	N/A	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
Q091280000	5-7A-18	к	BARBARA ANDERSON	NOBLE ENERGY INC	1/8+	860	498	N/A	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
Q081130000	5-7A-17	L	CLARA B YOHO	NOBLE ENERGY INC	1/8+	820	514	N/A	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
041112	WV - DOT ROUTE 2	м	COLUMBIAN CHEMICAL COMPANY	CNX LAND RESOURCES	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: 851/220	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
Q088417001	WV DOT - ROUTE 2	м	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	NOBLE ENERGY INC	1/8+	845	332	N/A	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

WW-6A1 Supplement

Operator's Well No. <u>Woodford - 2HM</u>

WW-6A1	. Supplement		Office of Oil and Gas AUG 1 4 2018 WV Department of WV Department of							Oj	perator's W	ell No. <u>Wo</u>	odford - 2HM
Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
041112	5-12-2	N		CNX LAND RESOURCES	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: 851/220	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
041112	5-12-3	0	COLUMBIAN CHEMICAL COMPANY	CNX LAND RESOURCES	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: 851/220	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
													Chevron USA Inc to
10*19255	5-12-7	Р	ROBERT W. RIGGENBACH & SHARON RIGGENBACH, HUSBAND AND WIFE	CHEVRON USA INC	1/8+	772	450	N/A	N/A	N/A	N/A	N/A	TH Exploration LLC: 40/127
10*21769	5-12-13	Q	BETTY HAMILTON	TH EXPLORATION LLC	1/8+	957	419	N/A	N/A	N/A	N/A	N/A	N/A
10*21770	5-12-13	Q	SUSAN WINLAND AND PAUL MICHAEL WINLAND	TH EXPLORATION LLC	1/8+	957	421	N/A	N/A	N/A	N/A	N/A	N/A
10*21776	5-12-13	Q	LINDA HAMILTON	TH EXPLORATION LLC	1/8+	957	417	N/A	N/A	N/A	N/A	N/A	N/A
10*21769	5-12-14	R	BETTY HAMILTON	TH EXPLORATION LLC	1/8+	957	419	N/A	N/A	N/A	N/A	N/A	N/A
10*21770	5-12-14	R	SUSAN WINLAND AND PAUL MICHAEL WINLAND	TH EXPLORATION LLC	1/8+	957	421	N/A	N/A	N/A	N/A	N/A	N/A
10*21776	5-12-14	R	LINDA HAMILTON	TH EXPLORATION LLC	1/8+	957	417	N/A	N/A	N/A	N/A	N/A	N/A
10*19240	5-12-14	R	KELLY D MILLER	TRIENERGY HOLDINGS,	1/8+	753	595	N/A	N/A	N/A	N/A	TriEnergy Holdings LLC & TriEnergy In to Chevron USA Inc: 28/348	c Chevron USA Inc to TH Exploration LLC: 40/127
10*19245	5-12-14	R	GERALD R MILLER	TRIENERGY HOLDINGS,	1/8+	743	423	N/A	N/A	N/A	N/A	TriEnergy Holdings LLC & TriEnergy In to Chevron USA Inc: 28/348	1
				TRIENERGY HOLDINGS,							N/A	TriEnergy Holdings LLC & TriEnergy In to Chevron USA Inc: 28/348	5
10*19246	5-12-14	R	SHIRLEY R MILLER	LLC TRIENERGY HOLDINGS, LLC	1/8+	745	433 228	N/A N/A	N/A N/A	N/A N/A	N/A N/A	TriEnergy Holding LLC & TriEnergy In to Chevron USA Inc: 28/348	s

WW-6A1	Supplement			/ED and Gas	2018	ent of Protection							OI	perator's W	/ell No. <u>Wo</u>	odford - 2HI
Lease ID	Parcel	Tag	Grantor, Lessor, Etc.			- <u>E</u> a	Grantee, Lessee, Etc.	Royalty	Deed Bo	ook/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
				RECE e of Oil		epa tra									TriEnergy Holdings	
				ជ័្ន	(5	Ő								TriEnergy Holdings	LLC & TriEnergy Inc	Chevron USA Inc to
				с э	ΝŪ	2								LLC to NPAR LLC:	to Chevron USA	TH Exploration LLC:
10*19241	5-12-14	R	BARBARA K BURLEY	Ë	A	5.		1/8+	753	631	N/A	N/A	N/A	26/123	Inc: 28/348	40/127
		-		U		L	<u> </u>								NPAR LLC to	Chevron USA Inc to
							TRIENERGY HOLDINGS,								Chevron USA Inc:	TH Exploration LLC:
10*19238	5-12-14	R	ANITA RAE MILLER				LLC	1/8+	742	66	N/A	N/A	N/A	N/A	26/201	40/127
		_													TriEnergy Holdings	
															LLC & TriEnergy Inc	Chevron USA Inc to
							TRIENERGY HOLDINGS.								to Chevron USA	TH Exploration LLC:
10*19239	5-12-14	R	WILLIAM DALE MILLER				LLC	1/8+	743	519	N/A	N/A	N/A	N/A	Inc: 28/348	40/127

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AFFIDAVIT

STATE OF TEXAS	ş
	§ SS
COUNTY OF TARRANT	ş

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.

FURTHER, AFFIANT SAITH NOT.

RECEIVED Office of Oil and Gas

AUG 1 4 2018

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _	18地day of	October	WV Department of Environmental Protection
IN WITHESS WHEREOF, WE have hereunto set our hands and seals this_	uay 01	CONDER	. 2010.

Affiant: David D. Kalish

STATE OF TEXAS

COUNTY OF TARRANT

JURAT

Jan Pest MARSHALL County 03:44:28 PW Instrument No 1416299 Date Recorded 10/19/2016 Document Type NIS Pages Recorded 1 Book-Page 28-62 Recording Fee \$5.00 Additional \$6.00

4705102114

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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§ SS



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

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.
- 3. Each Non-Operator grants to Operator a lien upon its oil and gas rights, oil and 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 shall be continuation at the operator.

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.

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

Bv: 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

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

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ACKNOWLEDGEMENT

COMMONWEALTH OF)
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: 2/11/2020 Signature/Notary Public: D.
Name/Notary Public (print): DADIO G. Delaco COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL David Gabriel Delallo, Notary Public Cecil Township, Weshington County My Commission Expires February 16, 2020
ACKNOWLEDGEMENT
COMMONWEALTH OF PEAN SAL VAN IA) SS:
COUNTY OF USASHWARAN)
On this the 11 th day of July 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: 2/16/2020 Signature/Notary Public:
Name/Notary Public (print): DADG. DELALSO NOTARIAL SEAL David Gebriel DeLeito, Notary Public Cecil Township, Weshington County My Commission Expires February 16, 2020
ACKNOWLEDGEMENT
STATE OF <u>WEST VIRGINIA</u>)) SS: COUNTY OF <u>WOOD</u>)

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

4705102114

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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

By:

Name: Jared Hall Title: President

NON-OPERATOR: TH Exploration II, LLC

By: ______ Name: ______ Title: _____

ACKNOWLEDGEMENT

STATE OF)

) SS: COUNTY OF)

2018, before me, a notary public, the undersigned On this the day of 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 ______ SS:

COUNTY OF _____

2018, before me, a notary public, the undersigned 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: ____

SS:

Name/Notary Public (print):

ACKNOWLEDGEMENT

STATE OF WEST VIRGINIA

COUNTY OF WOOD ì

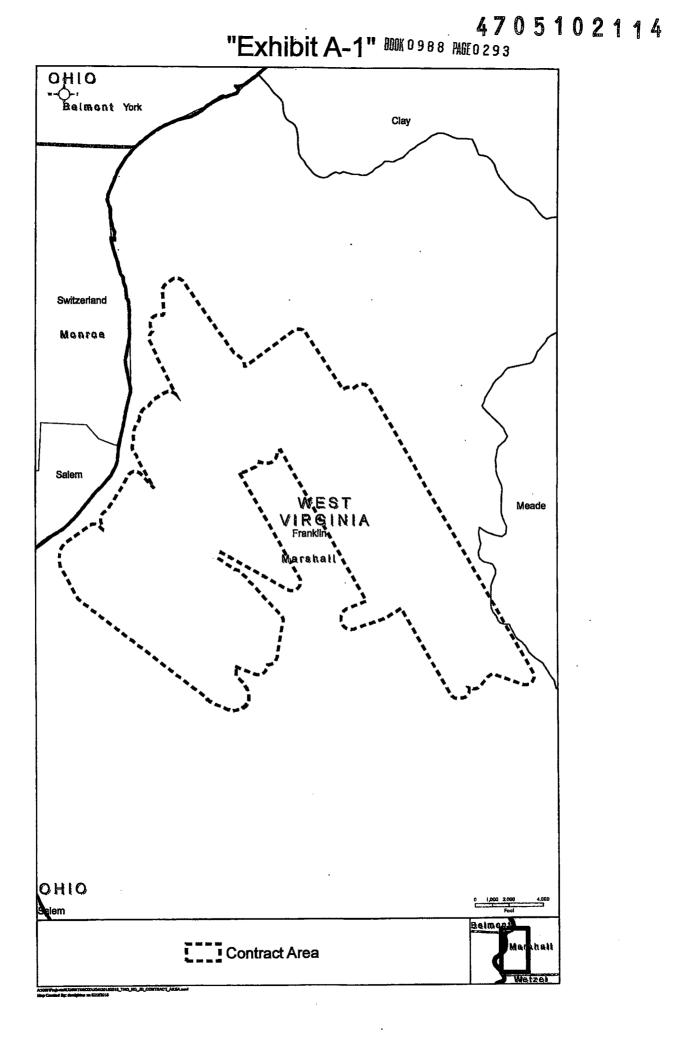
This instrument was acknowledged before me on the 11 day of 5uhg, 2018 by Jared Hall, as President of HG Energy II Appalachia, LLC, a Delaware limited liability company, on behalf of said company.

Given under my hand and seal this the 11 day of July_, 2018.



Jeanine M. Saults Notary Public, State of Wist Virginia

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



	88 PARE 11 2 9 4 Exhibit "/	 λ_2"									
	TH Explorati					1					
1	TH Exploration II, LLC										
	SPECIFIC LEASES SUBJECT TO THIS AGREEMENT										
TH Lease ID.			County	State	Book	Pagas					
10*14042	RALPH B TAYLOR	12/4/2007	Marshali	wv	665	487					
10*14043	PATRICK R. WALSH	1/4/2011	Marshall	wv	725	566					
10*14044 10*14045	JOSEPH WESLEY GALLAHER, II LAMOYNE BAKER	1/4/2011	Marshall	WV	724	232					
10*14046	CHARLES THOMPSON GALLAHER, II	1/4/2011	Marshall Marshall	wv wv	724 724	236 234					
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 10*14051	JUDITH L. CHAMBERS	1/4/2011 1/4/2011	Marshall Marshall	wv	726 727	647 572					
10*14052	MAY ELIZABETH GALLAHER BROWNIN	1/4/2011	Marshall	wv	727	568					
10*14053	LARRY D. MCWHORTER	2/2/2011	Marshali	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 10*14058	THE SAMUEL MILTON SHEETS TRUST NANCY HOFSTATTER	4/7/2011 4/5/2011	Marshall Marshall	wv wv	732 732	624 628					
10*14059	LAURA BERRY MCGLYNN	4/5/2011	Marshall	WV	732	622					
10*14050	SUSAN E GORE	5/2/2012	Marshali	wv	768	488					
10*14061	LINDA TAYLOR	5/2/2012	Marshall	wv	770	476					
10*14062	REBECCA MCMILLAN	9/4/2011	Marshall	Ŵ	803	482					
10*14063	DAVID BURKETT	9/4/2011	Marshall	wv	803	480					
10*14064 10*14067	CIRRUS MINERALS LLC REVA FRANZE	6/1/2011 1/25/2008	Marshall Marshall	wv wv	843 666	452 51					
10*14099	SOUTHERN COUNTRY FARMS INC	1/18/2008	Marshall	wv	666	489					
10*14100 10*14101	SAMMY EDWARD WHITLATCH RICHARD P WHITLATCH	11/9/2007 11/9/2007	Marshali Marshall	wv	665 665	369					
10*14102	GLORIA TERRILL	3/18/2010	Marshall	wv	698	633					
10*14103	ROSE R DAUGHERTY AND JAMES N	3/18/2010	Marshall	wv	698	635					
10*14104	GLENNA ANDERSON AND DALE ANDER	3/18/2010	Marshall	WV	698	625					
10*14105	WENDELL RINE AND CAROLYN RINE	3/18/2010	Marshali Marshall	wv	698 698	627 629					
10*14106 10*14107	GARY E RINE ARCHIE WAYNE WHIPKEY	3/18/2010 3/18/2010	Marshall	WV	698	631					
10*14108	LOIS M MYERS	3/18/2010	Marshall	WV	698	637					
10*14110	RONA LEE MCCARDLE	5/28/2008	Marshall	wv	670	472					

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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	Marshali	wv	827	566
10*14116	DONALD SHIELDS	3/10/2008	Marshall	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	Marshaii	wv	813	450
10*14119	CHARLES W. SNYDER & JUDITH A.	11/15/2013	Marshall	wv	813	452
10*14120	CAROL D. HABERLE & A8RAM HABER	11/15/2013	Marshall	wv	813	448
10*14121	JACK D. SNYDER & GRETA A. SNYD	11/15/2013	Marshall	WV	813	446
10*14122	ERICLSTOLTZFUS	6/1/2014	Marshall	wv	833	525
10*14123	TEESHA L HOLMES	6/1/2014	Marshall	wv	836	96
10*14124	BETSY G STOLTZFUS	6/1/2014	Marshall	wv	836	94
10*14125	SHIBEN ESTATES INC	1/26/2010	Marshail	wv	695	460
10*14141	DAVID TAKACH AND WIFE DEBORAH	12/20/2010	Marshall	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	Marshail	wv	725	141
10*14423	OLAN V RUTAN AND PATRICIA E	1/27/2011	Marshall	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	Marshall	wv	772	69
10*14571	MATTHEW S ANDERSON AND BRENDA	7/1/2014	Marshall	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 L A	1/20/2009	Marshall	wv	681	515
10*14612	HAYHURST COMPANY	3/29/2010	Marshall	wv	708	107
10*14613	CHESTNUT HOLDINGS INC	3/25/2014	Marshall	WV	827	556
10*14619	SHIRLEY R MILLER	6/10/2010	Marshali	wv	715	414

10*14620	ANITA R MILLER	6/10/2010	Marshall	wv	715	416
10*14621	WILLIAM DALE AND NOREEN G MILL	6/10/2010	Marshall	•••	715	415

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10*14622	KELLY D MILLER	6/29/2010	Marshall	wv	713	606
10*14623	DUANE D MILLER	6/29/2010	Marshall	wv	717	149

BOOK O	988 脱脂0298	····	·	· · · · · ·		
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	8/13/2010	Marshall	wv	715	622
10*14627	BRIAN AND LENA POND	7/28/2010	Marshall	wv	717	51

BOOK	(098	<u>8 NATO 300</u>	.	<u> </u>			
10*14		- TEXYN L AND GEORGIA A MILLER	7/22/2010	Marshall	wv	715	514
10*14	629	GERALD R AND LEE A MILLER	7/22/2010	Marshali	wv	717	1

·····			BOOK	0988	PAGE O	301
10*14630	BARBARA K BURLEY	7/22/2010	Marshail	w	716	637
10*14631	USA ANN MILLER	8/13/2010	Marshall	wv	715	520
10*14632	DELORES J. MYERS	8/21/2010	Marshall	wv	716	643

<u> </u>	88 MM 0 3 0 2	<u> </u>	<u> </u>			
10*14633	MARIA T. FLORES	7/22/2010	Marshall	wv	719	318
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	Marshall	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	Marshali	wv	794	521
10*14640	SHERRI SNYDER	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	809	517

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10*14645	RANDY BERISFORD	9/5/2013	Marshail	wv	810	328
10*14646	PENNY ELAINE MENENDEZ	3/12/2014	Marshall	wv	822	266
10*14647	JAMES W ROBINSON III	7/3/2014	Marshali	wv	836	102
10*14648	LORI ANN ROBINSON	7/3/2014	Marshall	wv	836	104
10*14649	DONALD GARY GROVES II	, 7/18/2014	Marshall	wv	842	382
10*14650	TIMOTHY DWIGHT GROVES	9/8/2014	Marshall	wv	842	384
10*14651	DAVID V CALDWELL	7/3/2014	Marshall	wv	842	386
10*14652	CANDICE GUTIERREZ	⁻ 9/26/2013	Marshali	wv	842	388
10*14653	KRISTIN DOUGLAS	9/4/2014	Marshail	wv	.842	390
10*14654	KATHY JO RUNYON AND ROBERT PAT	2/11/2015	Marshall	wv	854	607
10*14655	RONALD R JOHNSON	3/17/2011	Marshall	wv	737	483
10*14688	DEBBIE RICHMOND	11/30/2012	Marshali	wv	786	398
10*14690	DANA HAMBEL	1/10/2013	Marshall	wv.	789	289
10*14692	BARBARA ANN DEEM	8/21/2013	Marshail	wv	804	247
10*14693	CHARLES DOWNS	8/30/2013	Marshall	wv	809	501
10*14 69 4	MARY FUNK	2/5/2014	Marshail	wv	821	36
10 ⁺ 14695	KATHY MITCHELL	2/6/2014	Marshali	wv	822	258
10*14696	MCKENZIE ANN ADAMS	2/6/2014	Marshall	wy	827	224
10*14697	ANGELA ADAMS WILHITE	1/23/2014	Marshali	wv	839	533
10*14698	JASON ADAMS	9/5/2014	Marshali	wv	842	372

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- 10*14699	CNX GAS COMPANY LLC AND NOBLE	6/11/2014	Marshali	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
				<u> </u>		
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	Marshall	wv	808	487
10*14894	MARILYN JEAN NOEL	9/27/2013	Marshall	wv	808	485
10*14895	DENISE ANN GALE	10/23/2013	Marshall	wv	815	242
10 ° 14895	DEBRA JANE GALE	10/23/2013	Marshail	wv	818	566

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

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

			<u> </u>	88 M	<u> 1030</u>	7
10*14902	BENNY MILLE	R 7/10/2014	Marshall	•••	836	98
10*14903	SUE PRUITT	7/10/2014	Marshall	wv	836	100

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10*14904	LEROY MILLER	10/21/2014	Marshail	wv	846	398
10*14905	JAMES K MILLER	3/5/2015	Marshali	w	854	610

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			DUNU O:	0.0.0	INDE U U	Ĩ
10 * 14906	MARY LOU MILLER-HORTON	3/5/2015	Marshali	wv		417
10814011		2/4/2014	Mamball	40/	810	216
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	Marshail	wv	827	552
	CHESTNUT HOLDINGS INC	7/1/2014	Marshail	wv	836	115
10*14918	di Entre incentes inc			wv	836	117
10*14918 10*14919	CHESTNUT HOLDINGS INC	7/1/2014	Marshall			
	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC	7/1/2014	Marshall	wv	836	119
10*14919 10*14920 10*14925	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC	7/1/2014 3/27/2014	Marshall Marshall	wv wv	836 840	119 444
10*14919 10*14920 10*14925 10*14928	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B	7/1/2014 3/27/2014 3/29/2007	Marshall Marshall Marshall	wv wv wv	836 840 660	119 444 517
10*14919 10*14920 10*14925 10*14928 10*14938	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B CHARLES F HAYNES AND DIANA L H	7/1/2014 3/27/2014 3/29/2007 7/30/2010	Marshall Marshall Marshall Marshall	wv wv wv	836 840 660 711	119 444 517 306
10*14919 10*14920 10*14925 10*14928	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B	7/1/2014 3/27/2014 3/29/2007	Marshall Marshall Marshall Marshall Marshall	wv wv wv wv	836 840 660 711 775	119 444 517 306 53
10*14919 10*14920 10*14925 10*14928 10*14938	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B CHARLES F HAYNES AND DIANA L H	7/1/2014 3/27/2014 3/29/2007 7/30/2010	Marshall Marshall Marshall Marshall	wv wv wv wv wv	836 840 660 711 775 720	119 444 517 306 53 132
10*14919 10*14920 10*14925 10*14928 10*14928 10*14938 10*14941	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B CHARLES F HAYNES AND DIANA L H HILDA DELORIS BAXTER	7/1/2014 3/27/2014 3/29/2007 7/30/2010 7/12/2012 9/23/2010 2/17/2011	Marshall Marshall Marshall Marshall Marshall Marshall Marshall	wv wv wv wv wv wv	836 840 660 711 775 720 735	119 444 517 306 53 132 433
10*14919 10*14920 10*14925 10*14928 10*14928 10*14938 10*14941 10*14942	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B CHARLES F HAYNES AND DIANA L H HILDA DELORIS BAXTER AARON PAUL HOLDREN LEROY ANDERSON AND DONNA K AND C PATRICIA WOBIG	7/1/2014 3/27/2014 3/29/2007 7/30/2010 7/12/2012 9/23/2010 2/17/2011 10/3/2016	Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall	wv wv wv wv wv wv wv	836 840 660 711 775 720 735 916	119 444 517 306 53 132 433 118
10*14919 10*14920 10*14925 10*14928 10*14938 10*14938 10*14941 10*14942 10*14945 10*16609 10*16610	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B CHARLES F HAYNES AND DIANA L H HILDA DELORIS BAXTER AARON PAUL HOLDREN LEROY ANDERSON AND DONNA K AND C PATRICIA WOBIG RICHARD B SMITH SR AND EVELYN MARIE SMITH	7/1/2014 3/27/2014 3/29/2007 7/30/2010 7/12/2012 9/23/2010 2/17/2011 10/3/2016 10/3/2016	Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall	wv wv wv wv wv wv wv wv	836 840 660 711 775 720 735 916 916	119 444 517 306 53 132 433 118 120
10*14919 10*14920 10*14925 10*14928 10*14938 10*14938 10*14941 10*14942 10*14942 10*14945	CHESTNUT HOLDINGS INC CHESTNUT HOLDINGS INC MOUNTAIN TOP PRODUCTIONS LLC JOSEPH D PARRIOTT AND NELLIE B CHARLES F HAYNES AND DIANA L H HILDA DELORIS BAXTER AARON PAUL HOLDREN LEROY ANDERSON AND DONNA K AND C PATRICIA WOBIG	7/1/2014 3/27/2014 3/29/2007 7/30/2010 7/12/2012 9/23/2010 2/17/2011 10/3/2016	Marshall Marshall Marshall Marshall Marshall Marshall Marshall Marshall	wv wv wv wv wv wv wv	836 840 660 711 775 720 735 916	119 444 517 306 53 132 433 118

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10*16875	CHRISTOPHER M EARICH AND BREA D EARICH	2/17/2017	Marshall	wv	917	9
10*16877	RENEE E CAIN AND GERALD D CAIN JR	2/18/2017	Marshai!	wv	917	1
10*16878	DIANE L GOODE	2/18/2017	Marshall	wv	917	5
10*16908	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshall	wv	910	5
10*16913	LIONEL LAND MARY LEE PERSINGER	12/10/2015	Marshail	wv	910	
10*16914	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshall	wv	910	· ·
10*16918	LIONEL L AND MARY LEE PERSINGER	12/10/2016	Marshail	wv	910	
10*16940	PATRICIA A RICHMOND	2/28/2017	Marshali	wv	915	
10*16994	MARTHA M RUTAN	2/22/2017	Marshall	wv	942	3
10*17329	JOHN P ICARD AND REVA J ICARD	1/3/2017	Marshall	wv	943	5:
10*17454	MARGARET A BONNETT	1/12/2017	Marshall	wv	940	4
10*17492	DIANA L WELLMAN	1/14/2017	Marshall	wv	940	4
10*17493	DENNIS D CALDWELL AND APRIL N CALDWELL	1/21/2017	Marshail	wv	942	4
10*17512	BONNIE LOU POSTLEWAIT	2/20/2017	Marshall	wv	917	89 91 51 57 54 60 127 31 524 431 434 405 58 58
10*17530	WOODROW N WARD AND HILDA A WARD	2/7/2017	Marshall	wv	916	20

10*17547 JAMES CONTRERAS AND CATHERINE CONTRERAS 2/15/2017 Marshall WV 942 400
10*17548 RICHARD ARTHUR VAN GROL AND JEANNE MARIE VAN GROL 2/23/2017 Marshall WV 942 398
10*17600 KENNETH ALLEN AND CARLA JO ALLEN 3/6/2017 Marshall WV 916 129 10*17627 NATHAN D YODER 3/17/2017 Marshall WV 917 62
10 10<
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	w	TBD	TBD	¥
10*17812	POTOMAC MINERAL GROUP LLC	4/3/2017	Marshail	wv	940	437	
10*17826	ALLDALE MINERALS II LP	4/7/2017	Marshall	wv	940	439	
10*17916	MARY E 8ISHOP	4/17/2017	Marshall	wv	927	167	

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10*17968	IDA RUTAN	3/9/2017	Marshali	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	15
10*18054	TOM KROL AND DAWN E KROL	3/24/2017	Marshall	wv	923	434	1
10*18068	CHRISTINA BOARDWINE AND BOBBY W BOARDWINE	3/24/2017	Marshall	wv	919	247	
10*18121	LAWRENCE EUGENE ANDERSON AND NICOLE M ANDERSON	5/5/2017	Marshali	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	Marshall	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	wv	929	87

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10*18211	REBECCA LYNN KIER AND ERIC JAMES KIER	5/19/2017	Mərshall	w	929	90
10*18212	THOMAS C DAVIS AND MARY ELLEN DAVIS	4/26/2017	Marshal)	wv	929	92

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

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10*18270 GERALD L BUSHOP III 5/26/2017 Marshall VV 943 30 10*18270 DEBRAL BICHEY AND JAMES F. RICHEY SIL 5/32/2017 Marshall VV 929 108 10*18280 DEBRAL BICHEY AND JAMES F. RICHEY SIL 5/32/2017 Marshall VV 929 108 10*18280 DEBRAL BICHEY AND JAMES F. RICHEY SIL 5/32/2017 Marshall VV 929 108 10*18335 MEGAN HAGERTY 6/2/2017 Marshall VV 920 448 10*18335 MEGAN HAGERTY 6/9/2017 Marshall VV 940 448 10*18335 DEBNE D. CALDINELLAND AVRILL K SCHEIDER 6/9/2017 Marshall VV 931 391 10*18375 DEBNES D. CALDINELL K SCHEIDER 6/2/2017 Marshall VV 931 394 10*18356 LOUIS AUERNBAUCHER 5/26/2017 Marshall VV 931 394 10*18555 DEBRA HARTLEY AND RAVIL NCAUVER 5/26/2017 Marshall VV 932 556 10*18555 DEBRA HARTLEY AND RAVIL NCAUVER 6/27/2017 Marshall </th <th>- noon o</th> <th>300 FANFU'S 1 8</th> <th>· · · · · · · · · · · · · · · · · · ·</th> <th></th> <th></th> <th></th> <th></th> <th></th>	- noon o	300 FANFU'S 1 8	· · · · · · · · · · · · · · · · · · ·					
10*18335 MEGAN HAGERTY 6/2/2017 Marshall WV TBD TBD 10*18335 MEGAN HAGERTY 6/2/2017 Marshall WV TBD TBD 10*18339 RESOURCE MINERALS HEADWATER I LP 6/9/2017 Marshall WV 940 448 10*18337 SARAH K SCHNEIDER AND DANIEL K SCHEIDER 6/2/2017 Marshall WV 931 391 10*18375 DENNS D CALDWELL AND APRIL N CALDWELL 5/26/2017 Marshall WV 931 394 10*18356 LOUIS AUENBAUCHER 6/22/2017 Marshall WV 932 468 10*18435 DEBRA HARTLEY AND DANA ALAN CRAWFORD 6/22/2017 Marshall WV 932 386 10*18550 DEBRA HARTLEY AND RICHARD HARTLEY 6/22/2017 Marshall WV 933 188 10*18549 BARBARA ANN ADKINS IOHNSON 7/7/2017 Marshall WV 935 74	10*18270	GERALD L BISHOP III	5/26/2017	Marshall	w	943	10	
10*18335 MEGAN HAGERTY 6/2/2017 Marshall WV TBD TBD 10*18335 MEGAN HAGERTY 6/2/2017 Marshall WV TBD TBD 10*18339 RESOURCE MINERALS HEADWATER I LP 6/9/2017 Marshall WV 940 448 10*18337 SARAH K SCHNEIDER AND DANIEL K SCHEIDER 6/2/2017 Marshall WV 931 391 10*18375 DENNS D CALDWELL AND APRIL N CALDWELL 5/26/2017 Marshall WV 931 394 10*18356 LOUIS AUENBAUCHER 6/22/2017 Marshall WV 932 468 10*18435 DEBRA HARTLEY AND DANA ALAN CRAWFORD 6/22/2017 Marshall WV 932 386 10*18550 DEBRA HARTLEY AND RICHARD HARTLEY 6/22/2017 Marshall WV 933 188 10*18549 BARBARA ANN ADKINS IOHNSON 7/7/2017 Marshall WV 935 74								
10*18339 RESOURCE MINERALS HEADWATER I LP 6/9/2017 Marshall WV 940 448 10*18339 RESOURCE MINERALS HEADWATER I LP 6/9/2017 Marshall 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*18375 DENNIS D CALDWELL AND APRIL N CALDWELL 5/26/2017 Marshall WV 931 394 10*18375 DENNIS D CALDWELL AND APRIL N CALDWELL 5/26/2017 Marshall WV 932 468 10*18403 ANGELA B CRAWFORD AND DANA ALAN CRAWFORD 6/22/2017 Marshall WV 932 555 10*18454 IMALEE D LLOYD AND GARY R LLOYD 6/28/2017 Marshall WV 933 186 10*18455 DEBRA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 186 10*18454 JANGELA B CRAWFORD SHRIVER 7/7/2017 Marshal	10*18280	DEBRA L RICHEY AND JAMES F RICHEY SR	5/12/2017	Marshall	WV	929	108	
10*18373 SARAH K SCHNEIDER AND DANIEL K SCHEIDER 6/2/2017 Marshall WV 931 391 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 LLOVD AND GARY R LLOYD 6/28/2017 Marshall WV 933 186 10*18455 DEBRA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 183 10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	. 10*18335	MEGAN HAGERTY	6/2/2017	Marshall	••• (TBD	TBD)*
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 10*18455 DEBRA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 183 10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18339	RESOURCE MINERALS HEADWATER I LP	6/9/2017	Marshail	wv	940	448	
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 932 535 10*18454 IMALEE D LLOYD AND GARY R LLOYD 6/29/2017 Marshall WV 933 186 10*18455 DEBRA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 183 10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18373	SARAH K SCHNEIDER AND DANIEL K SCHEIDER	6/2/2017	Marshail	wv	931	391	
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 10*18455 DE8RA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 183 10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18375	DENNIS D CALDWELL AND APRIL N CALDWELL	5/26/2017	Marshall	wv	931	394	
10*18454 IMALEE D LLOYD AND GARY R LLOYD 6/29/2017 Marshall WV 933 186 10*18455 DE8RA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 183 10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18396	LOUIS AULENBAUCHER	6/22/2017	Marshall	wv	932	468	ļ
10*18455 DEBRA HARTLEY AND RICHARD HARTLEY 6/28/2017 Marshall WV 933 183 10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18403	ANGELA B CRAWFORD AND DANA ALAN CRAWFORD	6/27/2017	Marshall	wv	932	536	}
10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18454	IMALEE D LLOYD AND GARY R LLOYD	6/29/2017	Marshall	wv	933	186]
10*18526 ANN TURNER YOUNG SHRIVER 7/7/2017 Marshall WV 933 591 10*18549 BARBARA ANN ADKINS JOHNSON 7/7/2017 Marshall WV 935 74	10*18455	DEBRA HARTLEY AND RICHARD HARTLEY	6/28/2017	Marshall	wv	933	183	1
	10*18526	ANN TURNER YOUNG SHRIVER		Marshali	wv	933	591	
10*18571 JUDITH R GADE AND WILLIAM S GADE 6/29/2017 Marshall WV 935 72	10*18549	BARBARA ANN ADKINS JOHNSON	7/7/2017	Marshall	wv	935	74]
	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	Marshail	wv	934	638		
10 *186 36	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*18638	TAMMY L MITCHELL AND ADAM J MITCHELL	7/24/2017	Marshali	wv	936	248		
10*18666	LESLIE A RUBCICH	7/13/2017	Marshall	wv	936	83		
10*18672	CARLA D RAKOSKIE	7/13/2017	Marshall	wv	936	87		
10*18680	SAMANTHA A RADER	7/19/2017	Marshall	wv	936	137		
10*18689	THE ESTATE OF ROY JOSEPH LEACH	7/19/2017	Marshall	wv	936	141		
10*18722	HIRAMS ESTATE FAMILY LIMITED LIABILITY LIMITED PARTNERSHIP	7/30/2017	Marshali	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	Mərshail	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	Marshali	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	Marshall	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	Marshali	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	Marshail	wv	938	452		
10*18796	DWG OIL & GAS ACQUISITIONS LLC	7/28/2017	Marshall	w	938	476		

10*18806 E SHELA PAVLOVICH 6/2/2017 Marshall V/V 9/23 576 10*18806 E SHELA PAVLOVICH 6/2/2017 Marshall V/V 9/23 576 10*18812: PATRICIA L RULAVIK AND JOHN KULAVIK 7/23/2017 Marshall V/V 983 19 10*18813 BICKY / OF DID AND SUBAN KUDD 7/23/2017 Marshall V/V 983 21 10*18813 BICKY / OF DID AND SUBAN KUDD 7/23/2017 Marshall V/V 983 22 10*18835 REBECCA LYNN KIER AND BIL (AMES KIER 7/28/2017 Marshall V/V 983 36 10*18835 IDRIN W MICCA AND BLDA KYK KIDCAP 7/28/2017 Marshall V/V 983 38 10*18845 DAVID E GRAY & 4/12/2017 Marshall V/V 983 38 10*18858 E-SHELA PAVLOVICH & 4/12/2017 Marshall V/V 980 28 10*18868 E-SHELA PAVLOVICH & 4/12/2017 Marshall V/V 980 28							
10*18813 RICKY JOE KIDD AND SUSAN KIDD 7/28/2017 Marshall WV 938 21 10*18827 ERIN E SCHOLL 1/27/2017 Marshall WV 937 626 10*18835 REBECCA LYNN KER AND ERIC JAMES KIER 7/28/2017 Marshall WV 941 450 10*18836 JOHN W MIDCAP AND ELDA FAYE MIDCAP 7/28/2017 Marshall WV 941 450 10*18845 DAVID E GRAY 8/12/2017 Marshall WV 939 386 10*18966 OWEN MICHAEL BARR AND TARA C BARR 8/12/2017 Marshall WV 940 291 10*18968 E SHIELA PAVLOVICH 8/12/2017 Marshall WV 940 291 10*18969 JEANNE MARIE VAN GROLAND RICHARD ARTHUR 8/16/2017 Marshall WV 941 285 10*18970 WONETA V JOHNSON & JOHNSON 8/1/4/2017 Marshall WV 941 281 10*18999 DENNIS E KIDD AND KIMBERLEY KIDD 8/1/4/2017 Marshall WV 940 351	10*18806	E SHIELA PAVLOVICH	6/2/2017	Marshall	wv	929	576
10*18813 RICKY JOE KIDD AND SUSAN KIDD 7/28/2017 Marshall WV 938 21 10*18827 ERIN E SCHOLL 7/27/2017 Marshall WV 937 626 10*18835 REBECGA LYNN KIER AND ENCI JAMES KIER 7/28/2017 Marshall WV 937 405 10*18836 JOHN W MIDCAP AND ELDA FAYE MIDCAP 7/28/2017 Marshall WV 939 386 10*18845 DAVID E GRAY 8/12/2017 Marshall WV 939 386 10*18946 OWEN MICHAEL BARA ND TARA C BARR 8/12/2017 Marshall WV 940 291 10*18969 JEANNE MARIE VAN GROL AND RICHARD ARTHUR 8/16/2017 Marshall WV 941 285 10*18970 DONALD E BERISFORD 8/8/20127 Marshall WV 941 281 10*18971 WONETTA V JOHNSON & NORMAN G JOHNSON 8/17/2017 Marshall WV 941 281 10*18999 DENNIS E KIDD AND KIMBERLEY KIDD 8/17/2017 Marshall WV 940 3	10*18812	PATRICIA L KULAVIK AND JOHN KULAVIK	7/31/2017	Marshali	WV	938	19
10*18827 ERIN E SCHOLL 7/27/2017 Marshall WV 937 625 10*18835 REBECCA LYNK KER AND ERIC JAMES KIER 7/28/2017 Marshall WV 937 405 10*18836 JOHN W MIDCAP AND ELDA FAYE MIDCAP 7/28/2017 Marshall WV 939 386 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 939 386 10*18969 JEANNE MARIE VAN GOL AND RICHARD ARTHUR 8/16/2017 Marshall WV 940 291 10*18969 JEANNE MARIE VAN GOL AND RICHARD ARTHUR 8/16/2017 Marshall WV 941 285 10*18970 DONALD E BERISFORD 8/4/2017 Marshall WV 941 281 10*18972 MARGARET CLICKNER 8/18/2017 Marshall WV 940 353 10*19909 LAMOYNE BAKER 12/28/2007 Marshall WV 665 554	10*18813						
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10*18835 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*18945 OWEN MICHAEL BARR AND TARA C BARR 8/12/2017 Marshall WV 939 386 10*18968 E SHIELA PAVLOVICH 8/17/2017 Marshall WV 941 289 10*18969 JEANNE MARIE VAN GOL AND RICHARD ARTHUR 8/12/2017 Marshall WV 941 289 10*18970 DONALD E BERISFORD 8/8/2017 Marshall WV 941 285 10*18971 WONETTA VJOHNSON & NORMAN G JOHNSON 8/17/2017 Marshall WV 941 285 10*18972 MARGARET CLICKNER 8/14/2017 Marshall WV 940 353 10*18988 STEPHEN M CUNNINGHAM 8/18/2017 Marshall WV 940 351 10*19009 LAMOYD K MILLER MICHEL A MILLER 1/8/2013 Marshall WV 950 1554							
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10*18945 OWEN MICHAEL BARR AND TARA C BARR 8/12/2017 Marshall WV 939 388 10*18968 E SHIELA PAVLOVICH 8/12/2017 Marshall WV 940 291 10*18969 JEANNE MARIE VAN GROL AND RICHARD ARTHUR 8/16/2017 Marshall WV 941 289 10*18970 DONALD E BERISFORD 8/8/2017 Marshall WV 941 287 10*18972 MONETTA V JOHNSON & NORMAN G JOHNSON 8/11/2017 Marshall WV 941 281 10*18972 MARGARET CLICKNER 8/14/2017 Marshall WV 940 353 10*18999 DENNIS E KIDD AND KIMBERLEY KIDD 8/17/2017 Marshall WV 940 351 10*1909 LAMOYNE BAKER 1/8/2013 Marshall WV 7BD TBD 10*19012 RAYMOND K MILLER MICHELE A MILLER 1/8/2013 Marshall WV 7BD TBD 10*19021 MARCELUS XX MINERAL PARTNERS LTD 6/1/2013 Marshall WV 800 216 <td></td> <td></td> <td>7/28/2017</td> <td>Marshail</td> <td>wv</td> <td>941</td> <td>450</td>			7/28/2017	Marshail	wv	941	450
10*18968 E SHIELA PAVLOVICH 8/17/2017 Marshall VV 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 Marshall 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 940 353 10*18998 STEPHEN M CUNNINGHAM 8/18/2017 Marshall WV 940 353 10*19099 LAMOYNE BAKER 12/28/2007 Marshall WV 940 351 10*19012 RAYMOND K MILLER MICHELE A MILLER 18/2013 Marshall WV TBD TBD 10*19017 PAUL A RINE AND DEBRA A RINE 4/3/2013 Marshall WV TBD TBD 10*19030 KATHLEEN R CUSTEAD 9/4/2013 Marshall WV 806 39 <t< td=""><td></td><td></td><td>8/12/2017</td><td>Marshali</td><td>wv</td><td>939</td><td>386</td></t<>			8/12/2017	Marshali	wv	939	386
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 Marshall WV 941 287 10*18970 DONALD E BERISFORD 8/8/2017 Marshall WV 941 285 10*18972 MARGARET CLICKNER 8/14/2017 Marshall WV 940 353 10*18972 MARGARET CLICKNER 8/14/2017 Marshall WV 940 353 10*18999 DENNIS E KIDD AND KIMBERLEY KIDD 8/17/2017 Marshall WV 940 351 10*19009 LAMOYNE BAKER 12/28/2007 Marshall WV 665 554 10*19012 RAYMOND K MILLER MICHELE A MILLER 1/8/2013 Marshall WV 7BD TBD 10*19021 MARCELLUS TX MINERAL PARTNERS LTD 6/1/2013 Marshall WV 800 216 10*19030 KATHLEEN R CUSTEAD 9/4/2013 Marshall WV 813 145 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
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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*18972 MARGARET CLICKNER 8/14/2017 Marshall WV 940 353 10*18999 DENNIS E KIDD AND KIMBERLEY KIDD 8/17/2017 Marshall WV 940 351 10*19009 LAMOYNE BAKER 12/28/2007 Marshall WV 940 351 10*19012 RAYMOND K MILLER MICHELE A MILLER 1/8/2013 Marshall WV 7BD TBD 10*19017 PAUL A RINE AND DEBRA A RINE 4/3/2013 Marshall WV 7BD TBD 10*19030 KATHLEEN R CUSTEAD 9/4/2013 Marshall WV 800 216 10*19035 PURPLEBURGH VENTURES, LLC 10/20/2013 Marshall WV 813 145 10*19036 HAROLD W HOWARD JR 10/23/2013 Marshall WV 813 116 10*190		VAN GROL					
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 DENNIS E KIDD AND KIMBERLEY KIDD 8/17/2017 Marshall WV 940 351 10*19009 LAMOYNE BAKER 12/28/2007 Marshall WV 665 554 10*19012 RAYMOND K MILLER MICHELE A MILLER 1/8/2013 Marshall WV 7BD TBD 10*19017 PAUL A RINE AND DEBRA A RINE 4/3/2013 Marshall WV 800 216 10*19021 MARCELLUS TX MINERAL PARTNERS LTD 6/1/2013 Marshall WV 800 216 10*19030 KATHLEEN R CUSTEAD 9/4/2013 Marshall WV 813 145 10*19035 PURPLEBURGH VENTURES, LLC 10/20/2013 Marshall WV 813 116 10*19036 HAROLD W HOWARD JR 10/23/2013 Marshall WV 813 116 10*1903							
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10*18999 DENNIS E KIDD AND KIMBERLEY KIDD 8/17/2017 Marshall WV 940 351 10*19009 LAMOYNE BAKER 12/28/2007 Marshall WV 665 554 10*19012 RAYMOND K MILLER MICHELE A MILLER 1/8/2013 Marshall WV TBD TBD 10*19012 PAUL A RINE AND DEBRA A RINE 4/3/2013 Marshall WV TBD TBD 10*19021 MARCELLUS TX MINERAL PARTNERS LTD 6/1/2013 Marshall WV 800 216 10*19030 KATHLEEN R CUSTEAD 9/4/2013 Marshall WV 806 39 10*19034 JMK IRREVOCABLE TRUST 10/20/2013 Marshall WV 813 145 10*19035 PURPLEBURGH VENTURES, LLC 10/20/2013 Marshall WV 813 116 10*19036 HAROLD W HOWARD JR 10/23/2013 Marshall WV 813 116 10*19038 PHYLLIS L PARSONS 10/24/2013 Marshall WV 813 106 10*19		······································					
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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 813 79 10*19040 RUTHANNE RUSSELL TOPPING 10/24/2013 Marshall WV 813 79 10*19041 CHERYL L HILL 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 814 327 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 814 313							
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 813 79 10*19040 RUTHANNE RUSSELL TOPPING 10/24/2013 Marshall WV 813 79 10*19041 CHERYL L HILL 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 814 327 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 814 313 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 313 <	·						
10*19040 RUTHANNE RUSSELL TOPPING 10/24/2013 Marshall WV 813 79 10*19041 CHERYL L HILL 10/25/2013 Marshall WV 813 101 10*19043 JACK R BERISFORD LINDA JO BERISFORD 10/30/2013 Marshall WV 813 96 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 814 327 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 28 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 814 313 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 473 10							
10*19041 CHERYL L HILL 10/25/2013 Marshall WV 813 101 10*19043 JACK R BERISFORD LINDA JO BERISFORD 10/30/2013 Marshall WV 813 96 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 814 327 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 28 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 814 313 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 473 10*19050 LARRY F JEFFERSON CATHY L JEFFERSON 11/13/2013 Marshall WV 813 630		†					
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 814 327 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 28 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 817 627 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 313 10*19050 LARRY F JEFFERSON CATHY LJEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630							
10*19045 JOHN W MURDOCK HELEN CAROLINA MURDOCK 10/30/2013 Marshall WV 814 327 10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 817 627 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 313 10*19050 LARRY F JEFFERSON CATHY LJEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630							
10*19046 CAROL J WEINSTEIN 10/31/2013 Marshall WV 813 33 10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 817 627 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 313 10*19050 LARRY F JEFFERSON CATHY L JEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630	·····						
10*19047 DEBORAH CROSTEN-PURCELL 11/4/2013 Marshall WV 813 28 10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 817 627 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV 814 313 10*19050 LARRY F JEFFERSON CATHY L JEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630							
10*19048 JANET FRANKHAUSER WILSON 11/4/2013 Marshall WV 817 627 10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV B14 313 10*19050 LARRY F JEFFERSON CATHY L JEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630							
10*19049 RUTH ANN FERRIS 11/5/2013 Marshall WV B14 313 10*19050 LARRY F JEFFERSON CATHY L JEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630							
10*19050 LARRY F JEFFERSON CATHY L JEFFERSON 11/5/2013 Marshall WV 814 473 10*19054 MARSHA BERISFORD 11/13/2013 Marshall WV 813 630							
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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10*19056	LESLIE R KEYS	11/20/2013	Marshall	WV	814	463
10*19057	JACK MICHAEL FOREMAN	11/21/2013	Marshall	wv	817	640
10*19059	MARY VANESSA GILSON	11/26/2013	Marshall	wv	815	464
10*19060	ALYSIA JORDAN	12/2/2013	Marshall	wv	815	135
10*19061	ANN WOLLSCHLEGER	12/2/2013	Marshall	WV	817	615
10*19063	JULIE SPRINGWATER	12/18/2013	Marshall	WV	818	120
10*19066	MICHAEL L FRANKHAUSER	1/7/2014	Marshall	WV	818	29
10*19067	TIMOTHY M BROWN	1/10/2014	Marshall	wv	818	39
10*19068	LINDA L RUPERT	1/14/2014	Marshall	wv	820	229
10 ⁺ 19069	SCOTT D FRANKHAUSER	1/24/2014	Marshail	wv.	822	446
10*19071	DONNA L CLAPPER	2/3/2014	Marshall	wv	820	191
10*19074	PHILIP G FRANKHAUSER	2/6/2014	Marshall	wv	822	441
10*19076	FRANKHAUSER LIVING TRUST SUSAN LIVINGSTON, TRUSTEE	2/19/2014	Marshall	wv	826	495
10*19077	DAVID RUBCICH LESLIE A RUBCICH ET AL	2/26/2014	Marshall	wv	681	512
10*19080	REVOCABLE TRUST AGREEMENT CHARLES S HAMEL	3/25/2014	Marshall	wv	835	266
10*19081	RUDINA A FRANKHAUSER	4/12/2014	Marshall	wv	831	457
10*19098	DAVID H ARRICK AND LELAH M ARRICK	6/19/2013	Marshall	WV	800	505
10*19107	ALBERT F KAZEMKA	9/4/2014	Mərshəll	wv	853	73
10*19109	JOHN W. MILLER AND MARY ALICE MILLER, HUSBAND AND WIFE	10/8/2014	Marshall	wv	863	275
10*19121	IOE PAUL WELLMAN MARGARET ANN BONNETT ET AL	11/10/2011	Marshall	wv	773	518
10*19126	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	12/8/2014	Marshail	wv	859	44
10*19127	WALTER C RINE AND CHERYL A RINE	12/8/2014	Mərshail	wv	956	49
10*19128	RUDOLPH G FANKHAUSER	12/16/2014	Marshall	ŴV	860	258
10*19129	VERLA FLORENCE SHUTLER	12/19/2011	Marshall	wv	761	366
10*19130	FRANCES O HALL	1/4/2012	Marshall	wv	763	641
10*19132	KLOVA ANN MORRIS	1/19/2012	Marshall	wv	764	28
10*19134	REVA JUNE ICARD	1/21/2012	Marshali	wv	TBD	TBD
10*19136	WILLIAM L LITMAN	2/21/2012	Marshall	wv	772	90
10*19138	AARON DEAN LITMAN	3/13/2012	Marshall	wv	769	52
10*19139	HIRAM V MOORE	3/14/2010	Marshall	wv	699	53
10*19141	ROBERT W SPENCER JR NELLIE MARIE SPENCER	5/1/2010	Marshall	wv	706	468
10*19142	GLEN Y MILLER	4/5/2012	Marshail	wv	772	518
10*19146	RAY E MINOR CATHY L MINOR	4/19/2010	Marshali	wv	706	293
10*19150	ROBERT W. RIGGENBACH & SHARON RIGGENBACH, HUSBAND AND WIFE	4/22/2010	Marshall	wv	706	301
10*19151	RAYMOND K MILLER MICHELE A MILLER	4/23/2010	Marshall	wv	702	423
10*19152	BETTY J PARRIOTT	4/24/2012	Marshall	ŴV	772	192
10*19153	JACK S HUGGINS JR	4/27/2010	Marshall	wv	700	396
10*19154	ROBERT H FISH PATSY C FISH	4/29/2010	Marshail	wv	706	631
10*19158	LEONARD PARSONS CONNIE R PARSONS	5/24/2010	Marshall	wv	705	125
10*19159	FRANKLIN C FRANCIS	6/9/2010	Marshall	wv	709	41
10*19164	KATHERINE A STALNAKER	7/15/2014	Marshall	wv	839	486
10*19165	VICKI LYNN WOOD	7/17/2012	Marshall	wv	775	73
10 *1916 7	JAY A CONNER PATTY LOUISE CONNER	7/20/2010	Marshall	wv	724	156
	DATH MULTET AND CANON MULTET	7/20/2010	Marshail	wv	715	565
10*19168	PAUL WHITT AND SANDY WHITT					260
	DANIEL L RINE	7/21/2014	Marshail	wv	839	200
10*19169	· · · · · · · · · · · · · · · · · · ·	7/21/2014 7/24/2010	Marshail Marshall	wv wv	839 706	583
10*19169 10*19170	DANIEL L RINE					
10*19168 10*19169 10*19170 10*19172 10*19173	DANIEL L RINE SUSAN M SMITH	7/24/2010	Marshall	ŴV	706	583

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10 *19 176	. MAUNA MAXINE BEYSER	9/8/2010	Marshali	w	710	602
10*19177	NINA L KOVACS	9/29/2010	Marshall	w	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	wv	716	26
10*19185	HARRIETT LODUTH FOLEY	9/22/2010	Mərshafi	wv	710	598
10*19186	JOEL GLOVER	9/22/2010	Marshall	wv	710	600
10*19187	DAVID E GRAY	9/22/2010	Marshall	wv	710	610
10*19189	SHERRY ANN MCPHERON	9/28/2010	Marshall	wv	710	606

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10*19190	SALLY LEE RIVERA	9/28/2 010	Marshall	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	Marshail	wv	717	488
10*19201	DANIEL K YOHO	10/13/2010	Marshəli	**	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	wv	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	Marshail	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	Marshali	wv	676	463	
10*19219	SCOTT E JACKSON	1/12/2011	Marshall	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	1
10*19224	AMYSUE G BAHL	3/31/2011	Marshall	wv	731	166]
10*19225	LOIS BURNS	3/31/2011	Marshall	wv	731	174	ļ
10*19226	THOMAS RAY GATTS	3/31/2011	Marshall Marshall	wv wv	731 734	162 451	{
10*19227 10*19228	CONNIE KRESS KNAPP CAROLE J LAMBERT	3/31/2011 3/31/2011	Marshall	WV	734	225	{
10*19229	PATRICIA A LAMBERT	3/31/2011	Marshall	wv	731	158	1
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	4
10*19233	SHERLEY & STOWE	4/7/2011	Marshall	wv wv	731	170 631	
10*19234 10*19235	STANLEY EUGENE STOWE	4/7/2011 4/11/2011	Marshall Marshall	wv	732 731	164	1
10*19236	TAMMIE S JACKSON	5/2/2011	Marshall	wv	749	213	1
10*19237	MARION L JACKSON	5/10/2011	Marshall	wv	735	427	1
10*19238	ANITA RAE MILLER	5/12/2011	Marshall	wv	742	66	
10*19239	WILLIAM DALE MILLER	5/19/2011	Marshall	wv	TBD	TBO	
10*19240 10*19241	KELLY D MILLER	5/20/2011 5/24/2011	Marshall Marshall	wv wv	753 753	595 631	4
10*19242	TEXYN L MILLER AND GEORGIA A MILLER	5/27/2011	Marshall	wv	751	228	1
10*19244	JERRY L BLOOD	6/3/2011	Marshali	wv	736	177]
10 *19245	GERALD R MILLER	6/16/2011	Marshall	wv	743	423	
10*19246	SHIRLEY R MILLER	6/23/2011	Marshall	wv	745	433	×-
10*19247 10*19248	ALBERT F KAZEMKA	9/8/2011 9/4/2014	Marshall Marshall	wv wv	TBD TBD	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	Marshali -	wv	749	522		
10*19254	JOANNE LABRY	1/23/2014	Marshali	w	820	320	-	
10*19255	ROBERT W. RIGGENBACH & SHARON RIGGENBACH,	5/1/2012	Marshall	wv	772	450	-	
10*19293	HUSBAND AND WIFE JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	10/18/2006	Marshall	wv	TBD	TBD		
10*19294	MICHAEL R. BRYAN BRENDA K. BRYAN	12/5/2007	Marshall	wv .	TBD	TBD	Ν	
10*19295	KEVIN J. KELLY PAMELA MARXEN-KELLY	3/16/2015	Marshali	wv	TBD	TBD	1 \	
10*19295	MARISSA C MARXEN	2/27/2010	Marshall	wv	TBD	TBD	1 \	
10*19297	PHILIP LEONARD MARXEN	2/27/2010	Marshall	wv	TBD	TBD	1 \	
10*19298	BETTY J MARXEN SLEZAK	2/10/2014	Marshall	wv	TBD	твр	1	
10*19299	ANNETTE CONWAY MARXEN	12/3/2013	Marshall	wv	TBD	TBD	1 \	V
10*19300	DEBORAH F HAGEMAN HUPPERT	11/30/2013	Marshall	wv	TBD	TBD	1	X
10*19301	SANDRA HAGEMAN KANGAS	12/2/2013	Marshail	wv	TBD	TBD		i
10*19302	JEFFREY C MARXEN SAMANTHA L MARXEN	12/11/2013		wv	TBD	TBD		
10*19303	THOMAS O MARXEN	11/19/2013	Marshali	wv	TBD	TBD		
10*19304	DEAN L. RINE, JR. PAMELA F. RINE	11/13/2013	Marshall	wv	TBD	TBD	/	
10*19305	KAREN MARXEN SONDROL	11/12/2013	Marshali	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	Marshall	wv	665	397		
10*19337 10*19338		7/18/2007	Marshali	wv	663	498	.v	
10*19338	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	Marshaii	wv	939	329		
10*19353 K	KATHLEEN TOLER CLEMENTS AND DAN CLEMENTS	8/17/2017	Marshall	wv	939	322		
10*19374	BARBARA ANN ADKINS JOHNSON	8/10/2017	Marshali	wv	938	387		
10*19388	MARY LOU CUNNINGHAM	8/18/2017	Marshall	wv	940	355	1	
10*19420	REBECCA L RICHMOND	8/4/2017	Marshall	wv	940	264		
10*19467	ROBERT R FISHER AND AUDREY L IRVIN	8/23/2017	Marshali	wv	942	592	- - -	
			1	1	1	1		
10*19472 10*19473	DAVID RUBCICH AND CYNTHIA Y RUBCICH DANIEL JACOB ALLMAN	6/29/2017	Marshall	wv	933	83		

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10*19502	SUSAN BLANCHE BEYSER	8/30/2017	Marshall	wv	942	
10*19503	FRANK DALE BERISFORD AND KATHLEEN BERISFORD	B/29/2017	Marshall	wv	942	┢
10*19546	SANDRA R KEECH	8/24/2017	Marshall	wv	942	\vdash
10*19551	KAREN A JOSEPH	8/22/2017	Marshali	wv	937	Γ
10*19552	. LISA ANN JACKSON	8/22/2017	Marshall	wv	937	
10*19553	PAUL D LAUTAR AND JUDY B LAUTAR	8/23/2017	Marshall	wv	937	
10*19554	LESLIE KAYE HARCLERODE	B/25/2017	Marshall	_wv	945	-
10*19572	DOUGLAS R BISHOP	8/22/2017	Marshali	wv	943	
10*19608	CLIFFORD VAN SCYOC AND DENISE VAN SCYOC	9/7/2017	Marshall	wv	953	
10*19610	BRENT BERISFORD AND JEAN MARIE COSTA	9/1/2017	Marshall	wv	944	
10*19642	NOEL A PARKS	7/29/2017	Marshall	wv	944	
10*19673	CHESTNUT HOLDINGS INC	9/18/2017	Marshali	wv	836	
10*19751	THOMAS L ROBINSON	9/14/2017	Marshall	wv	944	
10*19752	PATRICIA ANKROM	9/14/2017	Marshail	wv	944	
10*19787	JOSEPH N POWDERLY III	7/24/2017	Marshail	*	935	
10*19788	REX B FISHER AND DEBORAH FISHER	7/15/2017	Marshali	wv	948	
10*19825	THOMAS A POWDERLY	9/12/2017	Marshall	wv	945	
10*19826	TERRANCE V POWDERLY SR	9/16/2017	Marshall	wv	945	-
10*19827	CORINNE E VERNA AND JONATHAN C VERNA SR	9/21/2017	Marshall	WV	945	┣—
10*19828 10*19829	ANNE M AND JOHN LEACH MARGARET J WHITFORD AND LANCE W WHITFORD	9/20/2017 9/6/2017	Marshall Marshall	wv wv	945 945	\vdash
10*19830	DAVID POWDERLY AND NANCY A POWDERLY	9/19/2017	Marshall	wv	945	-
10*19841	CAROLYN JEAN FERGUSON	9/25/2017	Marshall	wv	945	[
		9/21/2017	Marshall	wv	945	<u> </u>
10*19842	JAMES E ROBINSON AND CAMILLA L ROBINSON	5/21/2017	IVIdi Sridi)			

ROKO988 PARFO327 10*19851 PATRICK W JENNINGS AND SUSAN PACKER-JENNINGS 8/17/2017 Marshall wv 946 24 10*19852 JEFFREY A AND SHANNON M JENNINGS 8/24/2017 Marshall wv 946 22 10*19853 TIMOTHY B AND MICHELE P JENNINGS 8/28/2017 Marshall wv 946 20 10*19854 CHRISTOPHER M JENNINGS 8/24/2017 Marshall wv 946 18 10*19857 SUSAN H WALKER 9/28/2017 Marshall wv 946 AR 10*19893 WINIFRED G TURNER AND EDDIE G TURNER 10/2/2017 Marshail 277 wv 948 10*19916 RALPH M RICHMOND & WENDY L RICHMOND 9/26/2017 Marshall wv 595 948 10*19945 JANE A TOLER FOREMAN 10/9/2017 Marshall wv 949 356 10*19961 HERMAN KING AND KATHERINE KING 10/4/2017 Marshali wv 947 587 10*19962 JAMES GILLARD AND SUSAN GILLARD 10/5/2017 Marshall wv 947 575 10*19963 RODGER ELLINGSON AND JOAN ELLINGSON 10/2/2017 Marshall wv 948 304 10*19975 **CHARLES F STEWART** 10/2/2017 Marshall wv 948 270 10*21002 STANLEY EUGENE STOWE 10/19/2017 Marshall WV 951 215 10*21006 WILLIAM DICKEY 10/17/2017 Marshall wv 951 625 10*21009 JOY DENEAN GARTMAN 9/28/2017 Marshall wv 951 595 10*21014 JAMES P MCLAUGHLIN & AUCE W MCLAUGHLIN 9/26/2017 Marshall wv 946 29 . 10*21015 **ROBERT L MCLAUGHLIN** 9/27/2017 Marshall wv 946 339 10*21017 CATHERINE R KLUG PAUL FOX - POWER OF ATTORNEY 8/28/2017 Marshali wv 938 299 10*21041 SHERY RITCHEA AND RANDEN D RITCHEA 10/27/2017 Marshall wv 949 365 10*21042 **REBECCA L ASPERY** WV 428 10/8/2017 Marshali 952 10*21043 **BRENDA HOYLE** 10/25/2017 Marshall wv 951 598 600 wv 951 10*21044 RITA COX 10/25/2017 Marshall 10*21045 SANDRA J HARMON AND WALTER D HARMON 10/16/2017 Marshall wv 951 217 10*21046 KELLY R DUNN 10/17/2017 Marshall WV 951 591 WV 951 589 10*21047 RACHAEL D DONAHUE 10/16/2017 Marshall MICHAEL P OLSON wv 593 10*21048 10/11/2017 951 Marshall 10*21133 MATTHEW V AND CINDY L CONNER 8/30/2017 Marshall ŴV 951 602 10*21189 NATALIE GIBBS 8/15/2017 Marshali wv 941 261 10*21190 MARGARET CLICKNER 8/14/2017 Marshall wv 941 283

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10*21223	EUGENE C GRIEB AND SHIRLEY K GRIEB	11/13/2017	Marshail	wv	961	468
10*21224	RICKEY LYNN CROSS & VICTORIA ROSE CROSS	9/7/2017	Marshall	wv	939	589
10*21253	MARY ANN STURGILL	11/7/2017	Marshall	wv	952	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	HELEN BERISFORD STEWART	8/31/2017	Marshall	wv	941	241
10*21330	KATHLEEN TOLER CLEMENTS AND DAN CLEMENTS	11/16/2017	Marshall	wv	952	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	Marshall	wv	953	308
10*21460	MAGGY D ASTON AND ROBERT H RICHARDS	11/15/2017	Marshall	w	954	125
10*21462	MAGGY D ASTON AND ROBERT H RICHARDS	11/15/2017	Marshali	wv	954	128

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10*21463	MOLLY D ASTON & HOWARD PRIOR	11/17/2017	Marshall	wv	954	131
10*21465	MOLLY D ASTON & HOWARD PRIOR	11/17/2017	Marshall	wv	954	134
10*2146 8	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	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*21478	CHILDRENS HOME SOCIETY OF WEST VIRGINIA	1/9/2018	Marshall	wv	960	173

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10*21504	PAULETA LINDA CHEATHAM AND CARL WOHLERS	9/28/2017	Marshail	wv	951	142
10*21546	EDWIN C MILLER AND KIMBERLY ANN MILLER	10/14/2017	Marshail	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	Marshall	wv	952	386
10*21587	ALYSIA JORDAN & TERRY M JORDAN	10/26/2017	Marshali	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	Marshall	wv	959	313
10*21623	ROBERT R FISHER AND AUDREY L IRVIN	1/12/2018	Marshall	wv	TBD	TBD
10*21638	THE MILDRED Y MILLS TRUST JULY 5TH 2007	9/26/2017	Marshall	wv	954	332
10*21709	THOMAS YOUNG AND JANE CLAIRE YOUNG	1/5/2018	Marshall	wv	959	350
10*21710	PENELOPE A JONES	1/5/2018	Marshall	wv	959	355

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10*21719	ROBERT A MILLER	10/4/2017	Marshall	w	952	389	
10*21769	BETTY HAMILTON	12/26/2017	Bennhalt				
10*21770	SUSAN WINLAND AND PAUL MICHAEL WINLAND	12/26/2017 12/26/2017	Marshall Marshall	wv wv	957 957	419 421	
10*21776	LINDA HAMILTON	12/26/2017	Marshali	wv	957	417	
10*21823	ELLEN RUTH STERLING & JAMES ROGER DAVIS	1/15/2018	Marshall	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 1/11/2018	Marshall Marshall	wv wv	960 961	158 444	ŕ
10*21906	MICHAEL P VOLTZ	1/11/2018	Marshali	WV	960	164	1
10*21910	J THOMAS VOLTZ AND NANCY VOLTZ	1/23/2018	Marshali	wv	960	179	1
10*21917	ROBERT W RAHM AND BETHANY A RAHM	4/10/2014	Marshall	wv	827	142	1
10*21920	JOHN R MAUPIN	11/10/2017	Marshall	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	Marshall	wv	953	360	

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10*21929	BENNY MILLER	1/8/2018	Marshall	wv	960	177
10*21930	JAMES A GRENOBLE AND MARY JANE GRENOBLE	11/18/2017	Marshali	w	953	263
10*21934	BERNETTA D BROWN AND DOUGLAS M BROWN	1/17/2018	Marshall	. WV	960	167
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*21938	SEAN M GRENOBLE AND CHERYL A GRENOBLE	12/9/2017	Marshall	w	960	91
10*21938 10*21939 10*21939	SEAN M GRENOBLE AND CHERYL A GRENOBLE ULA F NELSON THOMAS J STERLING JR AND STEPHANIE ANN	12/9/2017 1/19/2018 1/22/2018	Marshall Marshall Marshall	wv wv	960 960 960	91 96 99

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10*21952	VICTORIA A PAKROVSKY AND STEPHEN W PAKROVSKY	1/10/2018	Marshall	wv	959	478
10*21953	LORNA MARIE LEW	1/10/2018	Marshail	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	Marshali	wv	959	484
10*22001	GREGORY K GLOVER	11/30/2017	Marshall	wv	953	271
10*22043	CHILDRENS HOME SOCIETY OF WV	12/11/2017	Marshali	wv	TBD	TBD
10*22044	MICHAEL A BISHOP	1/16/2018	Marshali	wv	960	421
10*22045		1/16/2018	Marshall	wv	961	417
10*22046	PHYLLIS E HARVEY AND STEVEN E HARVEY NOEL A PARKS	1/23/2018 1/31/2018	Marshall Marshall	WV WV	960	509
10*22051 10*22065	WESLEY R BRYAN II	2/2/2018	Marshall	WV	960	417
10*22065	WESLEY R BRYAN	2/2/2018			· · · ·	
	I INCCLEV D DOVAN	2/2/2018	Marshall	wv	960	419

10*22132	988 HED 334 WILLIAM H WILD AND RUTH N WILD	1/19/2018	Marshall	WV	959	485
0*22133	LAURENCE MYERS EVANS II AND PENNY EVANS	1/19/2018	Marshall	wv	961	439
0*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	Marshall	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
10*22295	RACHEL B OSTRANDER	2/27/2014	Marshall	wv	822	210

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10*22296	NOAH BAKER AND ALISA BAKER	2/1/2018	Marshall	wv	962	200
10*22302	DONNA K ANDERSON AND LEROY ANDERSON	12/23/2017	Marshail	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	Marshall	wv	964	520
10*22311	WILLIAM L LITMAN AND VICKIE L LITMAN	1/18/2018	Marshali	wv	963	404
10*22312	RICHARD WOOD AND VICKI WOOD	1/16/2018	Marshall	wv	962	528
10*22319	SHARON G VAN SCYOC	2/27/2014	Marshall	wv	822	204
10*22326	RACHEL SONDA AND SCOTT SONDA	2/22/2018	Marshali	wv	962	532
10*22349		11/17/2016	Marshall	wv	910	152
10*22404	REBECCA S LUKATS AND ELMER M LUKATS	1/23/2018	Marshall	wv	962	566

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10*22407	BRADLEY MURPHY	2/17/2018	Marshall	wv	962	575
10*22408	REBECCA S TARR	2/9/2018	Marshall	wv	962	578
10*22417	RONALD L PARSONS AND PAULA J PARSONS	2/26/2018	Marshall	wv	963	386
10*22430	DEBORAH VANVRANKEN	2/20/2018	Marsha]]	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	wv	966	106

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10*22449	MARGARET CLICKNER	2/15/2018	Marshall	wv	963	644
10*22451	GERALD L BISHOP III	1/31/2018	Marshall	wv	964	31
10*22492	FAITH MARIE FREESTONE AND ERIC FREESTONE	3/6/2018	Marshall	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	Marshall	w	966	104

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10*22513 DEBORAH BLDUGH 3/1/2018 Marshall WV 964 43 10*22533 HARRY LEROY AND NANCY S PARHIOTT 4/11/2014 Marshall WV 829 15 10*22534 DEBORAH BLDUGH 3/1/2014 Marshall WV 829 15 10*22535 TRUDY B AND DANNY SAMISON 4/11/2014 Marshall WV 828 63 10*22535 TRUDY B AND DANNY SAMISON 4/11/2014 Marshall WV 828 63 10*22536 TIMOTHY SOTT AND ANY C LEMASTERS 4/12/2014 Marshall WV 823 64 10*22537 BRIAN EDWIN LEMASTERS AND BEVERLYJ 4/22/2014 Marshall WV 835 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/5/2018 Marshall WV 966 62 10*22544 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 19 </th <th>r</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	r						
10*22533 HARRY LEROY AND NANCY S PARRIOTT 4/11/2014 Marshall WV 829 15 10*22534 DEBORAH D AND CALVIN P MERCER 4/11/2014 Marshall WV 829 63 10*22535 TRUDY B AND DANNY SAMPSON 4/11/2014 Marshall WV 828 63 10*22536 TIMOTHY SCOTT AND AMY C LEMASTERS 4/11/2014 Marshall WV 829 63 10*22537 BRIAN EDWIN LEMASTERS AND BEVERLY J 4/22/2014 Marshall WV 831 44 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22537 LAWRENCE EDWARD MURPHY AND JOAN MARIE 3/6/2018 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE 3/6/2018 Marshall WV 966 62 10*22548 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966	10 °2 2512	MARILYN NOEL	3/2/2018	Marshall	wv	964	436
10*22534 DEBORAH D AND CALVIN P MERCER 4/11/2014 Marshall WV 828 63 10*22535 TRUDY B AND DANNY SAMPSON 4/11/2014 Marshall WV 828 63 10*22536 TIMOTHY SCOTT AND AMY C LEMASTERS 4/11/2014 Marshall WV 829 63 10*22537 BRIAN EDWIN LEMASTERS AND BEVERLY J 4/22/2014 Marshall WV 831 44 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 13	10*22513	DEBORAH BLOUGH	3/1/2018	Marshall	wv	964	438
10*22534 DEBORAH D AND CALVIN P MERCER 4/11/2014 Marshall WV 828 63 10*22535 TRUDY B AND DANNY SAMPSON 4/11/2014 Marshall WV 828 63 10*22535 TIMOTHY SCOTT AND AMY C LEMASTERS 4/11/2014 Marshall WV 829 63 10*22537 BRIAN EDWIN LEMASTERS AND BEVERLYJ 4/22/2014 Marshall WV 831 44 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22548 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 13	10*22533	HARRY LEBOY AND NANCY S PARRIOTT	4/11/2014	Marchali	WV	870	152
10*22535 TRUDY B AND DANNY SAMPSON 4/11/2014 Marshall WV 828 63 10*22536 TIMOTHY SCOTT AND AMY C LEMASTERS 4/11/2014 Marshall WV 829 63 10*22537 BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS 4/22/2014 Marshall WV 831 44 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22537 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22548 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 13							
10*22536 TIMOTHY SCOTT AND AMY C LEMASTERS 4/11/2014 Marshall WV 829 63 10*22537 BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS 4/22/2014 Marshall WV 831 44 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 19	· · · · · · · · · · · · · · · · · · ·						
10*22537 BRIAN EDWIN LEMASTERS AND BEVERLY J LEMASTERS 4/22/2014 Marshall WV 831 44 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 13							
10*22537 LEMASTERS 4/22/2014 Marshall WV 831 4/4 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 19			4/11/2014	Warshall	WV	629	030
10*22538 RANDY K PARRIOTT 4/11/2014 Marshall WV 836 45 10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22547 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 19	10*22537		4/22/2014	Marshall	wv	831	44
10*22547 LAWRENCE EDWARD MURPHY AND JOAN MARIE MURPHY 3/6/2018 Marshall WV 966 62 10*22548 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 19	10*22538		4/11/2014	Marshail	wv	836	455
	10 *22547		3/6/2018	Marshall	wv	966	628
							194 124
10*22559 SHARON TOLER WILLIAMS & HERVEY WILLIAMS 3/19/2018 Marshall WV 966 94	10*22559	SHARON TOLER WILLIAMS & HERVEY WILLIAMS		Marshall	wv	966	94

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	10*22566	KENNETH A MILLER	2/12/2018	Marshali	wv	964	233
ŀ	10*22583	THE RANDOLPH FAMILY TRUST MARY MARIE SPITLER RANDOLPH TRUSTEE	3/7/2018	Marshail	wv	965	602
ļ	10*22584	RICHARD P BACHMAN AND JEANETTE M BACHMAN	2/23/2018	Marshall	wv	965	604
ľ	10*22604	WILLIAM LEESON	2/19/2018	Marshall	wv	966	499
ľ	10*22605	MICHAEL R LEESON AND BRENDA R LEESON	2/26/2018	Marshali	wv	966	496
	10*22606	ROBERT B MURPHY AND LINDA MURPHY	3/14/2018	Marshall	wv	966	469
	10*22612	KATHARINE EVANS COFFEY	3/26/2018	Marshall	wv	966	525
	10 * 22636	CHANDA WILSON AND DANIEL WILSON	3/29/2018	Marshall	w	968	225
F	10*22637	HOWARD T CONNER AND NANETTE CONNER	4/6/2018	Marshall	wv	968	219
F	10*22639	EDWIN MARK KNABENSHUE	4/6/2018	Marshail	WV	968	217
	10*22540	JESSICA M CREMEANS	4/6/2018	Marshall	wv	TBD	TBD
	10*22641		4/6/2018		wv	968	221

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10*22645	STANLEY EUGENE STOWE	4/4/2018	Marshall	wv	TBD	TBD	×
10*22665	JAMES R ANDERSON AND MELODY A ANDERSON	10/14/2013	Marshall	wv	812	31	1
10*22667	REBEKAH DRAYER ELDRIDGE AND CHRISTOPHER ELDRIDGE	11/4/2014	Marshall	wv	850	157	1
10*22744	BRIDGET A POWDERLY	4/6/2018	Marshail	wv	TBD	TBD	X
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*22753	JAMES AND DIANA MIDCAP	7/17/2013	Marshall	wv	803	615	u.
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*22777	BOYD BUESKING	11/14/2014	Marshall	wv	850	159	
10*22780	BRENDA FAYE THOMAS PETRACK	11/4/2014	Marshali	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	ļ
10*22810	CLYDE V. & KAREN S REED	4/7/2015	Marshall	wv	864	190 700	4
10*22858	THOMAS C AND MARY ELLEN DAVIS	4/25/2018	Marshall	WV	TBD	TBD	×
10*22862 10*22865	VERA VAN LAW TRUST BY ERIC M G JAMES H CAMPBELL	5/1/2018 5/9/2018	Marshall Marshall	wv wv	TBD 977	TBD 60	

	1	1	ADOX O	9881	103	h	7
10*22866	MARGARET R DONOFRIO	5/8/2018	Marshall	wv	977	57	
10*22974	PAMELA B TURNER	5/3/2018	Marshall	wv	TBD	TBD	1
10*22980	DEBRA L DANIEL	5/3/2018	Marshall	wv	TBD	TBD	1
10*23004	KLOVA A MORRIS	5/17/2018	Marshall	wv	TBD	TBD	134
10*23035	DEAN S CARR	5/2/2018	Marshall		TBD	TBD	¥
10*23037 10*23040 10*23109	CHARLES EDWARD FURBEE MARY L WHITTINGTON MARTHA C AND RICHARD D JR HYRE	4/7/2018 3/29/2018 5/11/2018	Mərshəli Mərshəli Mərshəli	wv wv	TBD 977 TBD	TBD 300 [°] TBD	*
10 23103	MARTHA CAND NICHARD DJR HTRE	5/11/2018	Marshall	wv	IBD	IBD	1
10*23116	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	5/30/2018	Marshall	**	TBD	TBD	
							×
10*23121	ROBERT L BERISFORD	5/3/2018	Marshall	w	TBD	TBD	K.K
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 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 XXX
10*23129	BONNIE S SMITH HOLLINS N AND AMY J RANDOLPH	5/7/2018 5/5/2018	Marshall Marshall	wv wv	TBD TBD	TBD TBD	*××
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	\$ \$ \$ \$ \$ \$	TBD TBD 864 859 885	TBD TBD 148 478 61	×××
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 864 859 885 898	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 864 859 885 898 895	TBD TBD 148 478 61 547 29	*××
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	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 864 859 885 898	TBD TBD 148 478 61 547	***
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	>> >> <td>TBD TBD 864 859 885 898 898 898 898 902</td> <td>TBD TBD 148 478 61 547 29 550 600 419</td> <td>XXX</td>	TBD TBD 864 859 885 898 898 898 898 902	TBD TBD 148 478 61 547 29 550 600 419	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 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 12/2/2015 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	>> >> <td>TBD TBD 864 859 885 898 898 898 898 902</td> <td>TBD TBD 148 478 61 547 29 550 600 419</td> <td>XXX</td>	TBD TBD 864 859 885 898 898 898 898 902	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	1		
10*47051.261.2	BONNIE G ZELIC			wv	882	536
10*47051.261.3	and the second	1/5/2015	Marshall	wv	882	539
	JOHN P 5MITH 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	Marshall	wv	894	
10*47051.331.1	LEEANN M LEMONOVICH	5/12/2016				511
		3/12/2010	Marshall	wv	910	136

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

Lesse Number	Original Lessor	Original Lessee TRIENERGY HOLDINGS,	Lease Date	Lease Gross Acres	State	County	Book Number	Page Number	ina e
TH19175	WILLIAM N. ROUPE ET UX	uc	08/26/2010	5.23	wv	MARSHALL	711	503	1 1
TH19101 TH19101	FRANCES E. NIEMAN	AB RESOURCES LLC	07/15/2009	66.92	wv	MARSHALL	685	288	1
1016101	FRANCES E. NIEMAN	AB RESOURCES LLC	07/15/2009	66.92	WV	MARSHALL	685	288	1
0083734000	JAMES A WADE SR	TRIENERGY HOLDINGS LLC	05/20/2010	9.36					
		100000000000000000000000000000000000000	00/20/2010	8.38	wv.	MARSHALL	707	371	1 1
0083831000		TRIENERGY HOLDINGS LLC	07/27/2010	16.3788	wv	MARSHALL	711	359	
000000000	CLAYTON LEE PERSINGER								<u> </u>
Q083689000	ETUX	TRIENERGY HOLDINGS LLC	08/31/2010	1.54	WV	MARSHALL	714	97	Ľ
Q083716000	KEVIN W WALLACE	TRIENERGY HOLDINGS LLC	09/02/2010	6.333		1			
			03/02/2020	0.323	wv	MARSHALL	715	193	1
Q083704000	ANNE C KLEM	TRIENERGY HOLDINGS LLC	10/12/2010	1.4	wv	MARSHALL	719	352	12
	JESUS BUSTAMANTE ET							1	
Q083671000	UX	TRIENERGY HOLDINGS LLC	11/09/2010	0.99	WV	MARSHALL	734	263	13
Q083768092	GEORGE A KNUTH ET UX	NOBLE ENERGY INC	67 H 9 H 9 H 9						
1003700032	KENNETH EUGENE WHITE	NUOLE ENERGY INC.	07/12/2013	2.743	wv	MARSHALL	803	345	1
Q080154001	ETUX	NOBLE ENERGY INC	11/05/2013	0.359	wv	MARSHALL	815	533	
	JAMES REDMAN LEGG II					MARSHALL	- 610	233	13
Q081124001	ETAL	NOBLE ENERGY INC	11/05/2013	72,141	wv	MARSHALL	816	548	13
Q081123001	JEFFREY L LEGG	NOBLE ENERGY INC	11/05/2013	20.5	WV	MARSHALL	816	530	13
C088945000	LETHA I RUCKMAN	TRIENERGY HOLDINGS LLC	11/29/2011	0.612	WV	MARSHALL	765	219	13
0068946000	I FTHA I MINCHARAN					1	1		
CONTRACTOR OF	LETHA I RUCKMAN EDUCATION OF COUNTY	TRIENERGY HOLDINGS LLC	11/29/2011	0.612	wv	MARSHALL	765	_219	13
Q092606000	OF MARSHALL	NOBLE ENERGY INC	06/09/2015	0.9504	11.01				
	or or white	HOUL LITEROI INC	00/03/2013	0.8594	wy	MARSHALL	896	501	14
Q083860000	MARY D RUCKMAN	TRIENERGY HOLDINGS LLC	12/01/2011	0.135	wv	MARSHALL	765	224	13
						1	·····		
0083860000	MARY D RUCKMAN	TRIENERGY HOLDINGS LLC	12/01/2011	0.135	wv	MARSHALL	765	224	13
CVX866629	FRANCES E NIEMAN ET AL	AB RESOURCES LLC	07/15/2009	23.355	wv	MARSHALL	685	283	12
CVX866958	ANITA L SLOUGH ET AL PAUL SCHEIBELHOOD ET	CHEVRON U.S.A., INC.	12/13/2009	320,491	wv	MARSHALL	696	7	12
CVX866959	AL	CHEVRON U.S.A., INC.	12/13/2009	320.491	wv	MARSHALL	695	629	12
		TRIENERGY HOLDINGS,				mequinal,	- 655	- 645	10
CVX868463	FRANCIS D. BARR ET UX	uc	03/04/2011	0.57	wv	MARSHALL	737	252	13
		TRUENERGY HOLDINGS,							
CVX858468	DEBORAH S. MIDCAP	ЦС	03/04/2011	0.9381	WV	MARSHALL	737	260	13
CVX868399	KEITH D. DANIELS ET UX	TRIENERGY HOLDINGS,							
C1/000333	ACITY OF DAMAGES ET ON	TRIENERGY HOLDINGS,	03/24/2011	1.53	_wv	MARSHALL	735	216	13
CVX868337	RALPH DUNLAP	uc	03/25/2011	15	wv	MARSHALL	737	433	13
		TRIENERGY HOLDINGS,						1.55	
CVX858688	THOMAS E. MIDCAP ET UX	uc	04/01/2011	0.751	wv	MARSHALL	738	482	13
CVX935969	TIMOTHY HUFF ET UX	CHEVRON U.S.A., INC.	10/06/2014	317.467	WV	MARSHALL	864	47	13
CVX936054	MARY JO CRONIN	CHEVRON U.S.A., INC.	10/15/2014	317.467	wv	MARSHALL	864	43	13
CVX936058	RICHARD KURPIL ET UX	CHEVRON U.S.A., INC.	10/16/2014	317.467	WV	MARSHALL	863	594	13
CVX936061 CVX935273	CLARA MAE CUFTON PAUL PARSONS ET UX	CHEVRON U.S.A., INC. CHEVRON U.S.A., INC.	10/18/2014 10/18/2014	317,467 317,467	wv wv	MARSHALL MARSHALL	853	426 430	13
CVX935276	SHARON LYN RUSSELL	CHEVRON U.S.A., INC.	10/12/2014	317.467	WV	MARSHALL	853 853	430	13
								766	20
CVX936062	GEORGE EDWARDS ET UX	CHEVRON U.S.A., INC.	10/22/2014	317.467	wv	MARSHALL	853	418	137
CVX935271	CHARLES W. MILLER	CHEVRON U.S.A., INC.	10/29/2014	317.467	w	MARSHALL	853	59	13
CVX936113	JUDITH MAY CONNER	CHEVRON U.S.A., INC.	11/07/2014	317.467	WV	MARSHALL	853	445	_ 137
CVX936112	DONNA FAE KYLE	CHEVRON U.S.A., INC.	11/07/2014	317.467		MARSHALL	853	449	13
CVX947093	RICHARD J. GATTS	CHEVRON USA INC	11/02/2016	98.819	WV	MARSHALL	899	479	14:
Q074011009	MARY WITTEN HART EHLERS	NOBLE ENERGY INC	02/14/2013	113.6	wv	MARSHALL	789	552	133
0074011009	CATHY HART PRICE	NOBLE ENERGY INC	02/14/2013	113.6		MARSHALL	789	534	13
Q074011011	DONALD R HART JR	NOBLE ENERGY INC	02/14/2013	113.6	wv	MARSHALL	789	554	13
Q074011002	DOROTHY ANN NEAL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	547	13
Q074011002	DOROTHY ANN NEAL	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	547	13
Q074011003	JOSEPH MOORE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	545	133
Q074011003	JOSEPH MOORE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	545	133
Q074011004	MARGERY J WITTEN MARGERY J WITTEN	NOBLE ENERGY INC	02/14/2013	231.35	WV WV	MARSHALL	789	543	133
Q074011004 Q074011005	ANN ALEXANDER	NOBLE ENERGY INC NOBLE ENERGY INC	02/14/2013 02/14/2013	231,35	WV WV	MARSHALL MARSHALL	789 789	543 541	133 133
Q074011005	ANN ALEXANDER	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	541	13
Q074011006	FRANCES GALE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	536	135
Q074011006	FRANCES GALE NEAL	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	789	536	13
	SUSAN WITTEN NEAL								134
Q074011007	MEYERS ET AL	NOBLE ENERGY INC	02/14/2013	231.35	WV	MARSHALL	794/789	352/538	13
0074011007	SUSAN WITTEN NEAL MEYERS ET AL	NOBLE ENERGY INC	100/14 / 2010	231.35	144.	MARSHALL	70.4 / 200	253/590	134 138
Q074011007	JANE WITTEN VOTH	NOBLE ENERGY INC	02/14/2013 02/14/2013	231.35	wv wv	MARSHALL	794/789 789	352/538 559	<u>136</u> 135
Q074011008	JANE WITTEN VOTH	NOBLE ENERGY INC	02/14/2013	231.35	wv	MARSHALL	789	559	133
Q075237000	MALISSA A MASON	NOBLE ENERGY INC	12/26/2012	2,846	WV	MARSHALL	787	59	13
Q074547000	EDWIN C MILLER ET UX	NOBLE ENERGY INC	03/11/2013	180.31	WV	MARSHALL	792	606	134
	WEST VIRGINIA								
	DEPARTMENT OF		an # 1 + 1 + 1						
Q075763000 Q075434005	TRANSPORTATION	NOBLE ENERGY INC	03/13/2013	1.48	WV	MARSHALL	797	642	134
30/3434005	EUZABETH J STEWART	NOBLE ENERGY INC	03/20/2013	10.88		MARSHALL	796	132	134
0075434001	IAMES E ROBINSON ET UX	NOBLE ENERGY INC	03/22/2013	10.88	wv	MARSHALL	795	188	134
0075434002	THOMAS L ROBINSON	NOBLE ENERGY INC	03/22/2013	10.88	WV	MARSHALL	795	190	13
Q075434003	PATRICIA A ANKROM	NOBLE ENERGY INC	03/22/2013	10.88	WV	MARSHALL	795	184	13/
Q075434004	JOHN S ROBINSON ET UX	NOBLE ENERGY INC	03/22/2013	10.88	wv	MARSHALL	795 [·]	185	134
0074927000	LUCILLE MYERS	NOBLE ENERGY INC	04/09/2013	1.089	wv .	MARSHALL	794	497	134
007/00/00		None pure	AF /44 /						
Q076001000	JONEL L PERSINGER ET UX	NOBLE ENERGY INC	05/15/2013	1.37	WV WV	MARSHALL MARSHALL	797 803	430 341	134 134
0076643000	JOHN JOSEPH GOUDY	NOBLE ENERGY INC	05/28/2013						

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

0076644000	EDWARD DAVID KNUTH	NOBLE ENERGY INC	06/10/2013	1.605	wv	MARSHALL	803	598	13487
	JAMES & MIDCAP ET UX	NOBLE ENERGY INC	06/12/2013	0.852	wv	MARSHALL	803	336	13484
Q076469000	JUNE MORRIS	NOBLE ENERGY INC	06/27/2013	2.06	wv	MARSHALL	802	275	13479
0077348000	JAMES B MIDCAP ET UX	NOBLE ENERGY INC	07/09/2013	0.1	wv	MARSHALL	806	358	13507
Q077350000	ROBERT SHIELDS ET AL	NOBLE ENERGY INC	07/16/2013	0.3	WV	MARSHALL	806	355	13507
Q076872002	DAVID E RIEL	NOBLE ENERGY INC	07/17/2013	9,188	wv	MARSHALL	806	362	13507
-	RAYMOND E CONNER SR				1				
0076767001	ETUX	NOBLE ENERGY INC	07/17/2013	1.277	wv	MARSHALL	803	631	13487
0076872003	ALICE E DUNLAP	NOBLE ENERGY INC	08/01/2013	9.188	WV	MARSHALL	805	587	13504
					t		<u> </u>	<u> </u>	
Q076872004	LARRY W DUNLAP ET UX	NOBLE ENERGY INC	08/01/2013	9.188	wv	MARSHALL	805	582	13504
Q076872001	WILLIAM R DUNLAP	NOBLE ENERGY INC	08/04/2013	9,188	WV	MARSHALL	805	636	13487
Q078626001	LUCILLE E WINGROVE	NOBLE ENERGY INC	08/08/2013	12.485	WV	MARSHALL	810	80	13525
Q077358001	JON DAVID FROMHART	NOBLE ENERGY INC	08/15/2013	2	WV	MARSHALL	805	580	13504
Q077357000	LINDA J SIMMONS	NOBLE ENERGY INC	08/16/2013	0.732	WV	MARSHALL	805	575	13504
	SAMUELL CANTERBURY								
Q078778000	ET UX	NOBLE ENERGY INC	08/16/2013	0.65	wv	MARSHALL	810	68	13525
	MILLARD BONNETTE JR ET								
0078775000	UX	NOBLE ENERGY INC	08/22/2013	3.192	wv	MARSHALL	810	70	13525
	LINDA DIANE BROWN ET		1		<u> </u>				
0076872005	VIR	NOBLE ENERGY INC	08/27/2013	9.188	wv	MARSHALL	816	192	13554
	PATRICIA ANN BELCH ET						<u></u>		
Q076872006	VIR	NOBLE ENERGY INC	08/27/2013	9.188	wv	MARSHALL	816	306	13556
					<u> </u>			1	
Q077562000	ELIZABETH ANNE MOORE	NOBLE ENERGY INC	08/28/2013	35.265	wv	MARSHALL	806	302	13507
Q077913000	RICK A KOSKY	NOBLE ENERGY INC	09/03/2013	0.5	w	MARSHALL	806	353	13507
	ROBERT SIDNEY					100101010			1 2000
Q078779000	ANDERSON ET UX	NOBLE ENERGY INC	09/04/2013	0.991	wv	MARSHALL	810	74	13525
								<u>† 7</u>	جيدين
Q079184000	GLORIA JEAN WHITE ET AL	NOBLE ENERGY INC	09/18/2013	0.525	wv	MARSHALL	808	392	13516
Q078651000	JUNE M MORRIS	NOBLE ENERGY INC	09/19/2013	0.115	wv	MARSHALL	808	388	
Q079517000	EARL B SUTER JR ET UX	NOBLE ENERGY INC	09/26/2013	0.085	WV	MARSHALL	+	<u>388</u> 640	13516
	MILLARD JUNIOR	in en		2003		methonelit	809	640	13524
Q079757000	BONNETTE ET UX	NOBLE ENERGY INC	10/01/2013	2.321	wv	BAADFILL			
Q079588001	PATRICIA Y DARRAH	NOBLE ENERGY INC	10/09/2013			MARSHALL	813	181	13535
		MOUSE ENERGY INC.	4070372013	1.617	.wv	MARSHALL	813	183	13535
0079588002	STANLEY DARRAH ET UX	NOBLE ENERGY INC	10/00/00/00	4 647					
0079588003	RICHARD DARRAH		10/09/2013	1.617	WV	MARSHALL	816	283	13556
Q080156001	DARLA JACKSON ET VIR	NOBLE ENERGY INC	10/09/2013	1.617	WV	MARSHALL	816	302	13556
Q080156002	LISA SCHULTZ ET VIR	NOBLE ENERGY INC	10/14/2013	1.679	WV	MARSHALL	815	531	13550
Q079588006	BERNADINE MORGAN	NOBLE ENERGY INC	10/14/2013	1.679	WV.	MARSHALL	816	166	13554
Q079588008		NOBLE ENERGY INC	10/16/2013	1.617	WV.	MARSHALL	816	265	13556
0.0000000000	DANEIL D ROBINSON ET								
Q079725000	UX	NOBLE ENERGY INC	10/18/2013	0.925	WV	MARSHALL	812	38	135310
Q079518000	JOHN H LONG ET UX	NOBLE ENERGY INC	10/18/2013	0.815	WV	MARSHALL	809	636	135245
	DAWN THOMPSON								
Q079516000	TENANT ET VIR	NOBLE ENERGY INC	10/22/2013	0.3091	WV	MARSHALL	809	632	13524
Q079588005	DAVID A TAKACH ET UX	NOBLE ENERGY INC	10/24/2013	1.617	WV	MARSHALL	816	304	13556
	DONNA SIDIROPOLIS ET								
0079588004	ViR	NOBLE ENERGY INC	10/24/2013	1,1617	wv	MARSHALL	816	546	13559
Q081116000	SHELVA G SMITH ET UX	NOBLE ENERGY INC	11/07/2013	1.441	¥	MARSHALL	816	275	13556
Q095265001	FORREST O MILLER	NOBLE ENERGY INC	11/11/2013	49.96	w	MARSHALL	815	529	135509
Q078626006	BARBARA F DANIELS	NOBLE ENERGY INC	11/15/2013	3.545	wv	MARSHALL	813	245	195363
Q078626007	JEFFREY BROOKS	NOBLE ENERGY INC	11/15/2013	3.545	WV	MARSHALL	819	540	135390
Q078526008	ELAINE WILLIS	NOBLE ENERGY INC	11/15/2013	3.545	WV	MARSHALL	813	542	135390
0081130000	CLARA B YOHO	NOBLE ENERGY INC	12/04/2013	0.32	WV	MARSHALL	820	514	135774
Q081144000	HOWARD N WAYNE ET UX	NOBLE ENERGY INC	12/04/2013	0.31	wv	MARSHALL	816	532	135592
Q081139001	WILLEY K NICE	NOBLE ENERGY INC	12/11/2013	0.474	WV	MARSHALL	816	297	135569
	DELBERT X MYERS JR ET								
0090332006			1	21.49					
	UX	NOBLE ENERGY INC	12/12/2013		WV I	MARSHALL	821	34	135775
	UX CATHERINE R KLUG	NOBLE ENERGY INC	12/12/2013		wv wv	MARSHALL	821 819	34 349	
Q081864001	CATHERINE R KLUG	NOBLE ENERGY INC	12/12/2013	32.317	WV	MARSHALL	819	349	135698
									135698
Q081864001 Q081864002	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013	32.317 32.317	wv wv	MARSHALL MARSHALL	819 819	349 347	135698 135698
Q081864001 Q081864002 Q081033000	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013	32.317 32.317 35.7	wv wv	MARSHALL MARSHALL MARSHALL	819 819 816	349 347 176	135698 135698 135544
Q081864001 Q081864002 Q081033000 Q078626019	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MITCHELL ET VIR FRANCES O HALL	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013	32.317 32.317 35.7 3.94	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825	349 347 176 258	135698 135698 135544 135867
Q081864001 Q081864002 Q081033000 Q078626019 Q097976002	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MITCHELL ET VIR FRANCES O HALL ROBERT M WHITE ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013 12/19/2013	32.317 32.317 35.7 3.94 7.23	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821	349 347 176 258 30	135698 135698 135544 135867 135773
Q081864001 Q081864002 Q081033000 Q078626019	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MITCHELL ET VIR FRANCES O HALL ROBERT M WHITE ET UX CHARLES G STEIN ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013	32.317 32.317 35.7 3.94	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825	349 347 176 258	135698 135698 135544 135867 135773
0081864001 0081864002 0081033000 0078626019 0097976002 0097976003	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR FRANCES O HALL ROBERT M WHITE ET UX CHARLES G STEIN ET UX PATRICIA LOUISE CROW ET	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013 12/19/2013 12/19/2013	32.317 32.317 35.7 3.94 7.23 0.35	wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821	349 347 176 258 30 28	135698 135544 135544 135867 135775 135775
Q081864001 Q081864002 Q081033000 Q078626019 Q097976002	CATHERINE R KLUG DEBRA L RICHEY ET VIR TANIMY L MITCHELL ET VIR FRANCES O HALL ROBERT M WHITE ET UX CHARLES G STEIN ET UX PATRICIA LOUISE CROW ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013 12/19/2013	32.317 32.317 35.7 3.94 7.23	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821	349 347 176 258 30	135695 135544 135544 135867 135775 135775
0081864001 0081864002 0081033000 0078626019 0097976002 0097976003 0081864003	CATHERINE R KLUG DEBRA LRICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES G STEIN ET UX PATRICIA LOUISE CROW ET VIR MARIENN ULBRICH	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013 12/19/2013 12/19/2013 12/19/2013 12/20/2013	32.317 32.317 35.7 3.94 7.23 0.35 32.317	wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 821 819	349 347 176 258 30 28 351	135695 135544 135544 135867 135775 135775 135697
0081864001 0081864002 0081033000 0078626019 0097976002 0097976003	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR FRANCES O HALL ROBERT M WHITE ET UX CHARLES & STEIN FT UX PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMES ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013 12/19/2013 12/19/2013	32.317 32.317 35.7 3.94 7.23 0.35	wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821	349 347 176 258 30 28	135695 135544 135544 135867 135775 135775 135697
0081864001 0081864002 0081854002 0078526019 0097976003 0097976003 0081864003 0078526010	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MITCHELL ET VIR FRANCES O HALL ROBERT WHITE ET UX CHARLES G STEIN ET UX PATRICA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYZ ULBRICH JEMSCHKE	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/31/2013	32.317 32.317 35.7 3.94 7.23 0.35 32.317 16.545	*** *** *** *** ***	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 819 820	349 347 176 258 30 28 351 506	135695 135544 135867 135775 135775 135775 135697 135773
0081864001 0081864002 0081864002 0078626019 0097976002 0087976003 0081864003 0078626010 0078626011	CATHERINE R KLUG DEBRA LRICHEY ET VIR TAMIMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES G THAL PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE E UY UR	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545	** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 820 819	349 347 176 258 30 28 351 506 305	135691 135544 135867 135867 135775 135775 135697 135773 135690
Q081864001 Q081864002 Q081864002 Q0819854002 Q078626019 Q097976002 Q097976003 Q081864003 Q078626010 Q078626011 Q078626012	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES G STEIN ET UX CHARLES G STEIN ET UX PATRICIA LOUISE CROW ET VIR MARIIETW ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/17/2013 12/18/2013 12/18/2013 12/19/2013 12/20/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545	** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 820 819 820 819 825	349 347 176 258 30 28 351 506 305 298	135688 135598 135594 135887 135775 135697 135697 135779 135690
0081864001 0081864002 0081083000 0078626019 0097976002 0097976003 0081864003 0078626010 0078626011	CATHERINE R KLUG DEBRA LRICHEY ET VIR TAMIMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES G THAL PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE E UY UR	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545	** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 820 819	349 347 176 258 30 28 351 506 305	135688 135598 135594 135887 135775 135697 135697 135779 135690
0081864001 0081864002 0081864002 0081864003 0097976003 0097976003 00978626010 0078626011 0078626012 0078626005	CATHERINE R KLUG DEBRA LRICHEY EY VIR TAMMY L MITCHELL EF VIR ROBERT M WHITE ET UX CHARLES G HALL PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BHYCE E ULBRICH ET UX H JAY ULBRICH	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545 16,545	wv wv wv wv wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 820 819 820 819	349 347 176 258 30 28 351 506 305 298 309	135695 135544 135867 135775 135775 135775 135697 135697 135690 135690
Q081864001 Q081864002 Q081864002 Q0819854002 Q078626019 Q097976002 Q097976003 Q081864003 Q078626010 Q078626011 Q078626012 Q078626013 Q078626013	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR ROBENT M WHITE ET UX CHARLES G STEIN ET UX CHARLES G STEIN ET UX PATRICIA LOUISE CROW ET VIR MARIETW ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BRYCE E ULBRICH ET UX H JAY ULBRICH ROBERT LEE SMITH ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/19/2013 12/19/2013 12/29/2013 12/29/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,54 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 820 819 825 819	349 347 176 258 30 28 351 506 305 288 306 305 288 309 303	135691 13554 13554 13886 13877 135775 135775 135697 135697 135692 135692 135692
0081864001 0081864002 0081864002 0081864003 0097976003 0097976003 00978626010 0078626011 0078626012 0078626005	CATHERINE R KLUG DEBRA LRICHEY EY VIR TAMMY L MITCHELL EF VIR ROBERT M WHITE ET UX CHARLES G HALL PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BHYCE E ULBRICH ET UX H JAY ULBRICH	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545 16,545	wv wv wv wv wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 819 820 819 820 819	349 347 176 258 30 28 351 506 305 298 309	135691 13554 13554 13886 13877 135775 135775 135697 135697 135692 135692 135692
Q081864001 Q081864002 Q08103000 Q078103000 Q07975002 Q097975003 Q078626010 Q078626010 Q078626011 Q078626012 Q078626013 Q078626013 Q078626013	CATHERINE R KLUG DEBRA LRICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES O HALL ROBERT M WHITE ET UX CHARLES G STEIN FT UX PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BHYCE E ULBRICH JENSCHKE H JAY ULBRICH ROBERT LEE SMITH ET UX JUSTIN SMITH	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545	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	819 819 816 825 821 829 819 820 819 825 819 819 819 819 819 819	349 347 176 258 30 28 351 506 305 298 309 303 307	135695 135544 135544 135867 135775 135775 135697 135697 135690 135690 135690 135690
Q081864001 Q081864002 Q081033000 Q078626019 Q097975002 Q097975003 Q078626010 Q078626010 Q078626023 Q078626023 Q078626013 Q078626012 Q078626013 Q078626054	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MICHELL ET VIR FRANCES O HALL ROBERT MWHTE ET UX CHARLES G STEIN ET UX PATRICA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYZ ULBRICH JEMSCHKE ET VIR BLYZ ULBRICH JEMSCHKE HAY ULBRICH HAY ULBRICH ROBERT LEE SMITH ET UX JUSTIN SMITH MARTHA FRANCES ULCAK	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,54 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545 16,545	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 819 820 819 820 819 825 819 819 819 819 832	349 347 176 258 30 28 351 506 305 298 309 305 298 309 303 307 588	135692 135544 135544 135867 135775 135775 135697 135697 135690 135690 135690 135690
Q051864001 Q051864002 Q051854002 Q051854002 Q057975002 Q057975002 Q057975003 Q057856003 Q078626010 Q078626011 Q078626013 Q078626013 Q078626013 Q078626012 Q078626012 Q078626012	CATHERINE R KLUG DEBRA L RICHEY EY VIR TAMMY L MITCHELL EF VIR RANCES O HALL ROBERT WHITE ET UX CHARLES G STEIN ET UX PATRICA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYC LUBRICH JENSCHKE ET VIR BRYCE E ULBRICH JENSCHKE H JAY ULBRICH ET UX H JAY ULBRICH ET UX JUSTIN SMITH MARTHA FRANCES ULCAK	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/19/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 0,729	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 821 821 821 823 825 819 819 819 832 825	349 347 176 258 30 28 30 28 30 28 30 28 30 506 305 298 309 300 307 588 347	135695 135544 135867 135775 135775 135697 135697 135697 135697 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695
Q081864001 Q081864001 Q081864002 Q08103000 Q078626019 Q097976002 Q097976003 Q078626010 Q078626012 Q078626013 Q078626012 Q078626013 Q078626054	CATHERINE R KLUG DEBRA LRICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES O HALL ROBERT M WHITE ET UX CHARLES G STRIN FT UX PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BHYCE E ULBRICH ET UX HAY ULBRICH ROBERT LEE SMITH ET UX JUSTIN SMITH MARTHA FRANCES ULCAK JOHN D ALBAUGH MARY I PARROTT	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,54 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545 16,545	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 819 820 819 820 819 825 819 819 819 819 832	349 347 176 258 30 28 351 506 305 298 309 305 298 309 303 307 588	135695 135544 135867 135775 135775 135697 135697 135697 135697 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695 135695
Q081864001 Q081864002 Q08163000 Q078626019 Q097975002 Q097976003 Q078626010 Q078626012 Q078626013 Q078626013 Q078626012 Q078626013 Q078626012 Q078626012 Q078626012 Q078626023 Q078626012 Q078626012 Q078626024	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MICHELL ET VIR RANCES O HALL ROBERT WHITE ET UX CHARLES G STEIN ET UX CHARLES G STEIN ET UX MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JEMSCHKE ET VIR BRYCE E ULBRICH JEMSCHKE ET VIR BRYCE E ULBRICH ET UX HARY ULBRICH ET UX JUSTIN SMITH MART HA FRANCES ULCAK JOHN D ALBAUGH MARY L PARDOTT HARRY LERCY PARILOTT	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/20/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 01/02/2014 01/09/2014 01/14/2014	32,317 32,317 35,7 3,54 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 825 821 821 821 821 822 820 819 819 819 819 819 819 825 827	349 347 176 258 30 28 30 28 302 28 305 506 305 506 305 309 307 588 309 307 588 347 154	135695 135544 135867 135775 135775 135697 135697 135697 135690 135699 135699 135699 135699 135699 135699 135699 135699 135699 135595 135595
Q081864001 Q081864002 Q081033000 Q087075002 Q097975003 Q078626019 Q078626010 Q078626011 Q078626013 Q078626013 Q078626013 Q078626013 Q078626013 Q078626013 Q078626012 Q07862603602	CATHERINE R KLUG DEBRA L RICHEY EY VIR TAMMY L MITCHELL EF VIR FRANCES O HALL ROBERT WWITE ET UX CHARLES G STEIN ET UX PATRICAL LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYC LUBRICH JENSCH ET VIR BRYCE E ULBRICH ET UX H JAY ULBRICH ET UX H JAY ULBRICH ET UX JUSTIN SMITH MARTHA FRANCES ULCAK JOHN D ALBALUGH MARY L PARROTT HARRY LEROY PARRIOTT ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/19/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 0,729	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 816 825 821 821 821 821 821 823 825 819 819 819 832 825	349 347 176 258 30 28 30 28 30 28 30 28 30 506 305 298 309 300 307 588 347	135695 135544 135867 135775 135775 135697 135697 135697 135690 135699 135699 135699 135699 135699 135699 135699 135699 135699 135595 135595
Q081864001 Q081864002 Q081033000 Q07810300 Q097976003 Q097976003 Q078626010 Q078626011 Q078626012 Q078626013 Q078626013 Q078626012 Q078626013 Q078626012 Q078626013 Q078626013 Q078626014 Q078626012 Q078626013 Q078626014 Q078626014	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES O HALL ROBERT M WHITE ET UX CHARLES G STEIN ET UX PATRICIA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BHYCE E ULBRICH ET UX H JAY ULBRICH ROBERT LEE SMITH ET UX JUSTIN SMITH MARTHA FRANCES ULCAK JOHN D ALBAUGH MARY L PARROTT HARRY LEROY PARROTT HARRY LEROY PARROTT HARRY LEROY PARROTT HARRY LEROY PARROTT	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/19/2013 12/19/2013 12/29/2013 12/29/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 16,545 6 6 6	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 825 821 821 821 821 820 819 825 819 819 819 819 819 825 825 827 827 822	349 347 176 258 30 28 351 506 305 298 309 305 298 309 303 307 307 588 347 164 506	135695 135595 135577 135775 135775 135697 135697 135697 135697 135697 135697 135697 135697 135697 135697 135697 135697 135597 135773
Q081864001 Q081864002 Q08163000 Q078163000 Q097975002 Q097975003 Q078626010 Q078626012 Q078626013 Q078626012 Q078626012 Q078626013 Q078626014 Q078626012 Q078626014 Q078626015 Q078626016	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES G HALL ROBERT M WHITE ET UX CHARLES G STEIN ET UX MARILYN ULBRCH ET VIR MARILYN ULBRCH ET VIR BRYCE E ULBRCH FE UX H AY ULBRCH FE UX H AY ULBRCH FE UX H AY ULBRCH FE UX JUSTIN SMITH MARTHA FRANCES ULCAK JOHN D ALBAUGH MARY L PARNOTT HARY LERY PARRIOTT HARY LERY PARRIOTT HARY LERY PARRIOTT HARY LERY PARRIOTT HARY LERY PARRIOTT	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/20/2013 12/31/2014 12/31/	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545	wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 825 821 821 821 820 819 825 829 819 819 819 825 825 827 820 820	349 347 176 258 30 28 30 28 302 28 305 298 305 305 305 305 309 307 588 309 307 588 309 307 588 309 307 588 506	135691 135544 135544 135577 135775 135775 135697 1355697 1355697 1355697 1355697 1355697 1355957 1355957
0281864001 0281864002 0281854002 02981835000 02987375002 02987375003 02987375003 02987375003 0298756010 0278626010 0278626013 0278626012 0278626012 0278626012 0278626012 0278626014 0278626017 0278626017 0278626017 0278626017 0278626017 0278626017 0278626017	CATHERINE R KLUG DEBRA LRICHEY ET VIR TAMIMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES O HALL CHARLES G STEIN ET UX PATRICAL LOUISE CROW ET VIR MARILYN ULBRICH CHALMES ET VIR BLYE ULBRICH JENSCH ET VIR BLYE ULBRICH JENSCH HAY ULBRICH ET UX HAY ULBRICH ET UX HAY ULBRICH ET UX NARTHA FRANCES ULCAK JOHN D ALBALVGH MARTHA FRANCES ULCAK JOHN D ALBALVGH MARTHA FRANCES ULCAK JOHN D ALBALVGH MARTHA FRANCES ULCAK JOHN D ALBALVGH MARTY LEROY PARROTT HARRY LEROY PARROTT HARRY LEROY PARROTT BODGS INC	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/19/2013 12/19/2013 12/19/2013 12/29/2013 12/29/2013 12/21/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 01/02/2014 01/14/2014 01/17/2014 01/17/2014	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,54516,545 16,	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 816 821 821 821 821 820 819 825 819 819 819 825 825 827 820 825 827 820 825 827 820 825	349 347 176 258 30 28 30 28 30 28 30 506 305 298 305 298 305 305 305 306 303 307 588 347 164 506 516 516 272	135691 135544 135867 135775 135775 135677 135697 135697 135697 135697 135697 135697 1355951 135777 135774 135774
Q081864001 Q081864002 Q08163000 Q078163000 Q097975002 Q097975003 Q078626010 Q078626012 Q078626013 Q078626012 Q078626012 Q078626013 Q078626014 Q078626012 Q078626014 Q078626015 Q078626016	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MICHELL ET VIR FRANCES O HALL ROBERT WHITE ET UX CHARLES O STEIN ET UX PATRICA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYZ ULBRICH JENSCHKE ET VIR BLYZ ULBRICH TUX ROBERT LEE SMITH ET UX JUSTIN SMITH MARY HARNOTE HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/20/2013 12/31/2014 12/31/	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,545	wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 825 821 821 821 820 819 825 829 819 819 819 825 825 827 820 820	349 347 176 258 30 28 30 28 302 28 305 298 305 305 305 305 309 307 588 309 307 588 309 307 588 309 307 588 506	135691 135544 135867 135775 135775 135677 135697 135697 135697 135697 135697 135697 1355951 135777 135774 135774
Q081864001 Q081864002 Q08163000 Q078163000 Q097975002 Q097975003 Q078626010 Q078626012 Q078626013 Q078626013 Q078626012 Q078626013 Q078626013 Q078626012 Q078626013 Q078626014 Q078626017 Q078626017 Q078626017 Q078626018 Q078626017 Q078626018 Q078626017	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMMY L MITCHELL ET VIR ROBERT M WHITE ET UX CHARLES G HALL ROBERT M WHITE ET UX CHARLES G STEIN ET UX MARILYN ULBRCH UX MARILYN ULBRCH ET VIR BRYCE E ULBRCH ET UX H AV ULBRCH ET UX H AV ULBRCH ET UX HAV ULBRCH TUX JUSTIN SMITH MARTHA FRANCES ULCAK JOHN D ALBAUGH MARY L PARNOTT HARY LERY PARRIOTT HARY LERY PARRIOTT	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/20/2013 12/20/2013 12/20/2013 12/20/2013 12/20/2013 12/20/2013 12/20/2013 12/2013 12/2013 12/2014 01/09/2014 01/12/2014 01/12/2014 01/27/2014	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,54516,545 16,	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 820 821 821 821 821 822 820 820 819 819 819 819 825 825 827 820 820 822 825 822 820	349 347 176 258 30 28 30 28 305 28 305 298 305 305 305 305 305 307 588 309 307 588 307 598 307 598 307 598 307 598 307 598 307 506 506 506 506 506 506 506 506 506 506	135691 135544 135544 135577 135775 135775 135695 135695 135695 135695 135695 135695 135895 135774 135895 135774
Q081864001 Q081864002 Q081033000 Q081033000 Q0810500 Q087975002 Q097975003 Q078526010 Q078526011 Q078526012 Q078526014 Q078526017 Q078526017 Q078526018	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MICHELL ET VIR FRANCES O HALL ROBERT WHITE ET UX CHARLES O STEIN ET UX PATRICA LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYZ ULBRICH JENSCHKE ET VIR BLYZ ULBRICH TUX ROBERT LEE SMITH ET UX JUSTIN SMITH MARY HARNOTE HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTNEY D HALL	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/19/2013 12/19/2013 12/19/2013 12/29/2013 12/29/2013 12/21/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 01/02/2014 01/14/2014 01/17/2014 01/17/2014	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,54516,545 16,	** ** ** ** ** ** ** ** ** ** ** ** **	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	819 819 819 816 821 821 821 821 820 819 825 819 819 819 825 825 827 820 825 827 820 825 827 820 825	349 347 176 258 30 28 30 28 30 28 30 506 305 298 305 298 305 305 305 306 303 307 588 347 164 506 516 516 272	135691 135544 135544 135577 135775 135775 135695 135695 135695 135695 135695 135695 135895 135774 135895 135774
Q081864001 Q081864001 Q081864002 Q081863000 Q078626013 Q078626010 Q078626010 Q078626012 Q078626013 Q078626012 Q078626013 Q078626012 Q078626013 Q078626014 Q078626014 Q078626015 Q078626015 Q078626014 Q078626015 Q078626015 Q078626015 Q078626015 Q078626015 Q078626015 Q078626015 Q078626015	CATHERINE R KLUG DEBRA L RICHEY EY VIR TAMIMY L MICHELL EF VIR RANCES O HALL ROBERT WHITE ET UX CHARLES G STEIN ET UX PATRICA LOUISE CROW ET VIR MARIUTN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCHKE ET VIR BRYCE E ULBRICH JENSCHKE ET VIR BRYCE E ULBRICH TUX JUSTIN SMITH MART LES MITH ET UX JUSTIN SMITH MART LES MITH ET UX JUSTIN SMITH MART LERY FARBOTT ET UX SOUTHASTERN GUIDE DOGS INC COURTINE D HALL DEBORAH D MERCER ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/29/2013 12/29/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 01/02/2014 01/22/2014 01/14/2014 01/27/2014 01/27/2014	32,317 32,317 35,7 3,54 7,23 0,35 32,317 16,545 15,585	wv wv	MARSHALL MARSHALL	819 819 819 816 823 821 819 812 819 825 827 819 819 819 825 827 826 827 820 822 823 824 825 827 820 823 824 825 827 820 821	349 347 176 258 30 28 30 28 351 506 305 298 309 309 303 307 307 508 508 516 506 516 272 272 272 272	135695 135544 135577 135775 135775 135775 135697 135697 135697 135690 135690 135690 135690 135690 135690 135690 135775 135775
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Q081864001 Q081864002 Q081033000 Q081033000 Q0810300 Q08175002 Q081854003 Q081854003 Q078526010 Q078526011 Q078526012 Q078526013 Q078526012 Q078526013 Q078526014 Q078526017 Q078526013 Q078526014 Q078526015 Q078526015 Q078526015	CATHERINE R KLUG DEBRA LRICHEY EY VIR TAMMY L MITCHELL EF VIR RANCES O HALL ROBERT WWITE ET UX CHARLES G STEIN ET UX PATRICAL LOUISE CROW ET VIR MARILYN ULBRICH CHALMERS ET VIR BLYE ULBRICH JENSCH ET VIR BLYE LUBRICH JENSCH ROBERT LEE SMITH ET UX JUSTIN SMITH MARTHA FRANCES ULCAK JOHN D ALBAUGH MARY L PARROTT HARRY LEROY PARRIOTT ET UX SOUTHEASTERN GUIDE DOGS INC KIMBERLY D LAKE COURTINEY D HALL DEBORAH D MERCE ET VIR BRIAN EDWIN LEMASTERS	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/29/2013 12/29/2013 12/21/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2014 01/32/2014 01/30/2014 01/30/2014	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,54516,545 16,	wv	MARSHALL MARSHALL	819 819 819 816 821 821 821 821 821 821 821 821 821 822 819 819 819 819 819 819 825 827 820 821 822 823 824 825 827 820 821 822 821 825 821 825	349 347 176 258 30 28 30 28 30 28 30 506 305 298 305 298 305 305 298 309 303 307 588 347 164 506 516 516 272 147 22 260	135695 135544 135867 135773 135773 135773 135693 135693 135693 135693 135693 135693 135693 135693 135773 135774 135865 135775 135775 135775
Q031864001 Q031864002 Q031864002 Q03183000 Q078626013 Q078626010 Q078626010 Q078626012 Q078626013 Q078626013 Q078626012 Q078626013 Q078626014 Q078626015 Q078626014 Q078626015 Q078626015 Q078626012 Q078626013 Q078626013 Q078626014 Q078626015 Q078626015 Q078626015	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MICHELL ET VIR RANCES O HALL ROBERT WHITE ET UX CHARLES G STEIN ET UX CHARLES G STEIN ET UX MARILYN ULBRICH ET VIR MARILYN ULBRICH ET VIR BLYYE ULBRICH FENGEN ET VIR BRYCE E ULBRICH FE UX H JAY ULBRICH FE UX JUSTIN SMITH MART LES SMITH ET UX JUSTIN SMITH MART LES SMITH ET UX JUSTIN SMITH MART LEROY FARLIGH MARY L PARBIOTT HARRY LEROY FARLIGH MARY L PARBIOTT KUMBERLY D LAKE COURTINE TO HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRUAN EDWIN LEMASTERS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/29/2013 12/29/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 01/02/2014 01/22/2014 01/14/2014 01/27/2014 01/27/2014	32,317 32,317 35,7 3,54 7,23 0,35 32,317 16,545 15,585	wv wv	MARSHALL MARSHALL	819 819 819 816 823 821 819 812 819 825 827 819 819 819 825 827 826 827 820 822 823 824 825 827 820 823 824 825 827 820 821	349 347 176 258 30 28 30 28 351 506 305 298 309 309 303 307 307 508 508 516 506 516 272 272 272 272	135775 135695 135695 135695 135697 135775 135775 135775 135697 135690 135690 135690 135690 135690 135690 135690 135590 135775 135775 135775 135775
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Q081864001 Q081864002 Q081033000 Q081033000 Q0810300 Q08175002 Q081854003 Q081854003 Q078526010 Q078526011 Q078526012 Q078526013 Q078526012 Q078526013 Q078526014 Q078526017 Q078526013 Q078526014 Q078526015 Q078526015 Q078526015	CATHERINE R KLUG DEBRA L RICHEY ET VIR TAMIMY L MICHELL ET VIR RANCES O HALL ROBERT WHITE ET UX CHARLES G STEIN ET UX CHARLES G STEIN ET UX MARILYN ULBRICH ET VIR MARILYN ULBRICH ET VIR BLYYE ULBRICH FENGEN ET VIR BRYCE E ULBRICH FE UX H JAY ULBRICH FE UX JUSTIN SMITH MART LES SMITH ET UX JUSTIN SMITH MART LES SMITH ET UX JUSTIN SMITH MART LEROY FARLIGH MARY L PARBIOTT HARRY LEROY FARLIGH MARY L PARBIOTT KUMBERLY D LAKE COURTINE TO HALL DEBORAH D MERCER ET VIR TRUDY B SAMPSON ET VIR BRUAN EDWIN LEMASTERS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2013 12/13/2013 12/13/2013 12/18/2013 12/19/2013 12/19/2013 12/29/2013 12/29/2013 12/21/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2013 12/31/2014 01/32/2014 01/30/2014 01/30/2014	32,317 32,317 35,7 3,94 7,23 0,35 32,317 16,54516,545 16,	wv	MARSHALL MARSHALL	819 819 819 816 821 821 821 821 821 821 821 821 821 822 819 819 819 819 819 819 825 827 820 821 822 823 824 825 827 820 821 822 821 825 821 825	349 347 176 258 30 28 30 28 30 28 30 506 305 298 305 298 305 305 298 309 303 307 588 347 164 506 516 516 272 147 22 260	135695 135544 135867 135773 135773 135773 135693 135693 135693 135693 135693 135693 135693 135693 135773 135774 135865 135775 135775 135775

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

MMX 0988 MAE 0345

0081864010	HARRY LEROY PARRIOTT ET UX	NODIE ENERGY INC.							1
		NOBLE ENERGY INC	02/04/2014	32.317	wv	MARSHALL	827	166	13593
Q081554004	TRUDY 8 SAMPSON ET VIR DEBORAH D MERCER ET	NOBLE ENERGY INC	02/04/2014	32.317	w	MARSHALL	825	345	13587
Q081864006	VIR BRIAN EDWIN LEMASTERS	NOBLE ENERGY INC	02/04/2014	32.317	wv	MARSHALL	825	423	1358
Q081854005	ET UX	NOBLE ENERGY INC	02/04/2014	32.317	wv	MARSHALL	825	421	1358
Q081864011	TIMOTHY SCOTT LEMASTERS ET VIR	NOBLE ENERGY INC	02/04/2014	32,317	wv	MARSHALL	827	158	
Q082345001	REGINA D GRAY	NOBLE ENERGY INC	02/12/2014	0.715	wv	MARSHALL	827	158	<u>1359</u> 1359
Q081854012 Q078626028	PATRICIA PARRIOTT PATRICIA PARRIOTT	NOBLE ENERGY INC NOBLE ENERGY INC	02/14/2014 02/14/2014	32.317	WV WV	MARSHALL MARSHALL	829	143	1361
Q078625027	BETTY JANE PARRIOTT	NOBLE ENERGY INC	02/18/2014	5.44	WV	MARSHALL	828 828	270 265	1360 1360
Q082463000	DANNY LEE DARRAH ET UX	NOBLE ENERGY INC	02/20/2014	0.738	wv	MARSHALL	827	160	1359
Q081864013	RAYMOND W WOODS ET	Maple Birbou bie			1				
		NOBLE ENERGY INC	02/27/2014	32.317	WV	MARSHALL	829	145	1361
Q081864014	RICHARD W WOODS ET UX	NOBLE ENERGY INC	02/27/2014	32.317	<u>wv</u>	MARSHALL	829	125	1361
Q078626024	CHILDREN	NOBLE ENERGY INC	03/04/2014	15.985	wv	MARSHALL	829	141	13612
Q081864007	CAROLE S MYERS ET VIR	NOBLE ENERGY INC	03/04/2014	32.317	wv	MARSHALL	827	93	13594
Q081854008	WILLIAM H WILSON ET UX	NOBLE ENERGY (NC	03/05/2014	32,317	wv	MARSHALL	827	91	13594
Q081864015 Q081864016	PENNIE S HOWE ET VIR HUGH M WENDELL	NOBLE ENERGY INC NOBLE ENERGY INC	03/05/201A 03/05/201A	32.317 32.317	WV WV	MARSHALL MARSHALL	829 829	121 119	13611
Q081864030	BETTY JANE PARRIOTT	NOBLE ENERGY INC	03/06/2014	32.317	wv	MARSHALL	829	634	13615
Q078626029	SOUTHEASTERN GUIDE DOGS INC	NOBLE ENERGY INC	03/06/2014	15		MADELAN	620	305	19600
Q081864017	PATRICIA M VARGO	NOBLE ENERGY INC	03/06/2014	32.317	WV WV	MARSHALL MARSHALL	828 829	305 123	13607
0081864018	WILLIAM D WENDELL ET	NOBLE ENERGY INC	03/07/2014						
Q081864021	MAVIS D KIME ET VIR	NOBLE ENERGY INC	03/07/2014 03/07/2014	32.317 32,317	WV WV	MARSHALL MARSHALL	829 828	115 299	13611 13607
Q078626030	FRANCES O HALL	NOBLE ENERGY INC	03/13/2014	1.5	WV	MARSHALL	839	133	13663
Q081864025 Q081864022	ANNA L WILSON	NOBLE ENERGY INC	03/14/2014 03/14/2014	32.317 32.317	WV WV	MARSHALL	829 828	151 301	13612
	WALTER C WILSON III ET	HODE LICKST MC			WV	MANJALL	62.0	301	1300/
Q081864020 Q081864046	UX ESTHER LALLEN ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	03/14/2014 03/14/2014	32.317 32.317	WV WV	MARSHALL MARSHALL	829 836	111 469	13611 13653
Q081864034	_JOHN A WILSON	NOBLE ENERGY INC	03/14/2014	32.317	WV	MARSHALL	832	283	13626
Q081864019	KATHRYN B NOLTE	NOBLE ENERGY INC	03/18/2014	32.317	WV	MARSHALL	829	113	. 13611
Q081864023	WONEDA D ROTH MARY EILEEN PALMER ET	NOBLE ENERGY INC	03/19/2014	32.317	wv	MARSHALL	829	107	13611
Q081864040	VIR	NOBLE ENERGY INC	03/19/2014	32.317	wv	MARSHALL	832	289	13626
Q081864045	PATRICIA F DANIELS ET VIR	NOBLE ENERGY INC	03/22/2014	32.317	wv	MARSHALL	836	40	13649
Q081864035	ELIZABETH J WEEKLEY	NOBLE ENERGY INC	03/22/2014	32.317	WV	MARSHALL	832	293	13626
Q078626026	BLASE JOSEPH ULCAK JR	NOBLE ENERGY INC	03/25/2014	16.545	wv	MARSHALL	829	127	13612
Q081854024	KIMBERLY FTRAVIS ET VIR	NOBLE ENERGY INC	03/25/2014	32.317	wv	MARSHALL	829	101	13611
					wv	-	831	62	13619
Q081864027 Q081864025	H ROBERT PHILLIPS ET UX DAVID W HALL	NOBLE ENERGY INC NOBLE ENERGY INC	03/25/2014 03/26/2014	32.317 32.317	WV	MARSHALL	829	99	13611
Q081854041	BARBARA L CARNA	NOBLE ENERGY INC	03/27/2014	32.317	wv	MARSHALL	833	454	13634
Q081864028	JODI ANN WILSON MADDOX ET VIR	NOBLE ENERGY INC	03/31/2014	32.317	wv	MARSHALL	828	260	13607
Q081864043	MARJORIE J BEAVON	NOBLE ENERGY INC	04/11/2014	32.317	WV	MARSHALL	833	576	13635
Q081864044 Q078626031	JERRY R BEAVON	NOBLE ENERGY INC NOBLE ENERGY INC	04/11/2014 04/11/2014	<u>32.317</u> 0.5	WV WV	MARSHALL	835	<u>606</u> 165	13648
	WENDY JO WARSINSKY ET								
Q081864031	VIR	NOBLE ENERGY INC	04/18/2014	32.317	WV.	MARSHALL	832	235	13625
Q081864032	KIP LAYNE WILSON ET UX	NOBLE ENERGY INC	04/18/2014	32.317	wv	MARSHALL	832	234	13625
Q081864029	MARVIN C WILSON ET UX	NOBLE ENERGY INC	04/18/2014	32.317	wv	MARSHALL	829	632	13615
Q081864037	BERTHA LYNN KLUG ET VIR	NOBLE ENERGY INC	04/18/2014	32.317	wv	MARSHALL	832	285	13626
Q082345002	JOSEPH M GRAY ET AL	NOBLE ENERGY INC	04/22/2014	0.715	wv	MARSHALL	829	16	13611
0083451000	HAROLD S YOUNG ET UX	NOBLE ENERGY INC	04/22/2014	0.32	wv	MARSHALL	828	252	13607
Q078626033	LUCILLE E WINGROVE	NOBLE ENERGY INC	04/22/2014	1,5	WV	MARSHALL	829	45	13611
0078626032	KENNETH MORRIS ET UX	NOBLE ENERGY INC	04/22/2014	1.5	wv	MARSHALL	829	43	13611
Q078626034	JANICE R CROOK ET VIR	NOBLE ENERGY INC	04/22/2014	1.5	WV	MARSHALL	831	60	13619
Q078626035 Q077358002	NANCY L SNYDER JUNE MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC	04/22/2014 04/22/2014	<u>1.5</u> 2	wv wv	MARSHALL	831 829	<u>56</u>	<u>13619</u> 13611
Q083768004	FERN A PICKENPAUGH	NOBLE ENERGY INC	04/25/2014	100.7	WV	MARSHALL	831	167	13620
Q083768029	MARY E VOLTZ ET VIR	NOBLE ENERGY INC	04/25/2014	100.7	WV	MARSHALL	841	¥ 8	<u>13675</u> 13619
Q083768001	SANDRA WINSLOW BETTY JUNE CAMPBELL ET	NOBLE ENERGY INC	04/25/2014	100.7	wv	MARSHALL	831		
Q083768016	VIR JUDY ANN MCCHESKEY ET	NOBLE ENERGY INC	04/25/2014	100.7	WV	MARSHALL	834	632	13642
Q083768025	ViR	NOBLE ENERGY INC	04/25/2014	100.7	wv	MARSHALL	840	291	13671
Q083442000	AEP GENERATION RESOURCES INC ET AL	NOBLE ENERGY INC	04/30/2014	1078.9103	wv	MARSHALL	829	157	13617
	NORMAN L DERROW ET								
Q083758015 Q081854035	UX ETTA J WEEKLEY ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	04/30/2014 05/02/2014	100.7 32,317	WV WV	MARSHALL	832 832	580 291	13628 13628
Q083768017	LAMOYNES BAKER	NOBLE ENERGY INC	05/05/2014	100.7	wv.	MARSHALL	834	634	13642
Q083768019	MARTHA J JAMISON ET VIR	NOBLE ENERGY INC	05/06/2014	100.7	w	MARSHALL	836	38	13649
Q081864038	DEBORAH LLATHROP	NOBLE ENERGY INC	05/07/2014	32.317	WV	MARSHALL	832	287	13626
0083768002	KERMIT REED HUBBS ET	NOBLE ENERGY INC	05/08/2014	100.7	wv	MARSHALL	831	163	13620
Q083768002	DOUGLAS & DERROW	NOBLE ENERGY INC	05/08/2014	100.7	WV	MARSHALL	831	165	13620
		MADIE ENERGY INTO	05/09/2014	100,7	₹.	MARSHALL	839	206	13664
Q083768020	SARA BRADLEY MARY S FOGLESONG ET	NOBLE ENERGY INC	00/00/2004	100,7		NAME AND A			

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Q083768030 Q083768006			1		T T	1	1	1	
	UX SONDRA SUE RULONG ET	NOBLE ENERGY INC	05/09/2014	100.7	wv	MARSHALL	842	510	13686
	VIR	NOBLE ENERGY INC	05/13/2014	100.7	wv	MARSHALL	832	230	13625
0083768010	JAMES A KOLL	NOBLE ENERGY INC	05/13/2014	100.7	WV	MARSHALL	832	584	
0083768011	MICHAEL W DERROW	NOBLE ENERGY INC	05/13/2014	100.7	wv	MARSHALL			13628
Q083768028	STEVEN S DERROW	NOBLE ENERGY INC	05/13/2014	100.7			833	464	13634
0083768005	JEAN GAUTHIER	NOBLE ENERGY INC	05/14/2014	100,7	WV WV	MARSHALL	842	24	13681
				100,7		MARSHALL	832	228	13625
Q081864064	MARY E LAMBERT ET VIR PHYILLIS JEAN	NOBLE ENERGY INC	05/14/2014	32.317	wv	MARSHALL	851	202	13731
Q083758009	OSTRANDER	NOBLE ENERGY INC	05/15/2014	100.7	wv	MARSHALL	833	472	13634
Q083768012	WILLIAM L WILLIAMS ET	NOBLE ENERGY INC	of the Done of						
Q081854039	EULA MARIE JOHNSON	NOBLE ENERGY INC	05/15/2014	100.7	WV	MARSHALL	833	574	136359
0081864042	EMMA LOU HIGGS		05/15/2014	32,317	WV_	MARSHALL	832	582	13628
Q081864033		NOBLE ENERGY INC	05/21/2014	32.317	<u>ww</u>	MARSHALL	833	578	136355
(001004033	SHARON S WILSON CHARLOTTE A MERSELIS	NOBLE ENERGY INC	05/21/2014	32.317	wv	MARSHALL	832	295	13626
Q083768008	ET VIR	NOBLE ENERGY INC	05/22/2014	100.7	wv	MARSHALL	833	14	136306
Q083766024	JIMMIE WILLIAMS ET UX								1 13030
4007100024	VERA SHIRLENE	NOBLE ENERGY INC	05/22/2014	100.7	wv_	MARSHALL	837		136561
Q083768007	WORKMAN ET VIR	NOBLE ENERGY INC	05/28/2014	100.7	ww	MARSHALL	832	232	136258
Q085150002	ROBERT ROSS ET UX	NOBLE ENERGY INC	05/29/2014	0.48	WV	MARSHALL	833	501	
Q065150003	ERMA CARNEY	NOBLE ENERGY INC	05/30/2014	0.48	WV	MARSHALL			136349
0085150001	MICKEY LWHITE ET UX	NOBLE ENERGY INC	06/03/2014	0,48			833	496	136349
Q083758013	KELLY KERN	NOBLE ENERGY INC			WV	MARSHALL	893	503	136349
Q083768014	SHIRLEY GBUR		06/04/2014	100.7	WV	MARSHALL	863	189	137935
1003700014	SHIRLET GOUR	NOBLE ENERGY INC	06/04/2014	100.7	WV	MARSHALL	863	191	137935
Q083768025	PENNY S SCHAUER ET VIR	NOBLE ENERGY INC	06/05/2014	100.7	wv	MARSHALL	842	7	136812
Q083768027	TRACI L WILLIAMS	NOBLE ENERGY INC	06/05/2014	100.7	WV .	MARSHALL	842	9	136812
0085150004	TWILA ADAMS	NOBLE ENERGY INC	06/12/2014	0.48	wv	MARSHALL			
Q085150005	CONNIE CURRENT	NOBLE ENERGY INC	06/18/2014	0.48			833	486	136348
Q083768018	HONUS ADAIR STOLLAR	NOBLE ENERGY INC			WV	MARSHALL	834	127	136379
Q085232000	PAUL W BARRETT		06/25/2014	100.7	WV	MARSHALL	836	36	136493
		NOBLE ENERGY INC	06/25/2014	0.16	WV	MARSHALL	838	469	136601
Q085438001	JUNE MORRIS	NOBLE ENERGY INC	06/26/2014	0.379	WV	MARSHALL	863	187	137935
Q065438005	JOHN PERSINGER ET UK	NOBLE ENERGY INC	06/26/2014	0.379	ŴV	MARSHALL	834	628	136422
0085438007	JAMES PERSINGER ET UX	NOBLE ENERGY INC	06/30/2014	0.379	wv	MARSHALL	824		
0005400000							834	630	136422
Q085438002 Q085438003	EARNIE RUSSELL JOHNSON RODNEY PERSINGER	NOBLE ENERGY INC NOBLE ENERGY INC	07/03/2014	0.379	wv	MARSHALL	835	602	136488
Q085438008			07/03/2014	0.379	wv	MARSHALL	835	604	136488
003430008	KATHY WENDEL	NOBLE ENERGY INC	07/03/2014	0.379	wv_	MARSHALL	834	626	136422
Q085438004	RONALD R JOHNSON ET	NOBI E PARACELLING					1		
		NOBLE ENERGY INC	07/08/2014	0,379	wv	MARSHALL	835	<u>612</u>	136489
Q081854047	FRANCIS GLEN WILSON BARBARA SUE SHANK	NOBLE ENERGY INC	07/08/2014	32.317	wv	MARSHALL	839	208	136647:
Q085438006	NICE ET VIR	NOBLE ENERGY INC	07/08/2014	0.379	wv	MARSHALL	835	592	136488
Q085150006	NANCY BRUMBAUGH	NOBLE ENERGY INC	07/10/2014	0.48	wv	MARSHALL	836	451	136488
	WILLIAM MICHAEL						000	101	130338
Q085438009	ANDERSON ET UX	NOBLE ENERGY INC	07/10/2014	0.379	wv	MARSHALL	836	471	136539
	ROBERT PATRICK								1
Q085438011	ANDERSON ET UX	NOBLE ENERGY INC	07/10/2014	0.379	wv	MARSHALL	839	225	136649
Q085150008	NORA RICH WOOD	NOBLE ENERGY INC	07/13/2014	0.48	WV	MARSHALL	839	196	136646
	DEBRA ANN BUTCHER ET								
Q078626037	VIR	NOBLE ENERGY INC	07/17/2014	3.44	wvi	MARSHALL	839	215	1366493
Q081854048	GARY F RIST	NOBLE ENERGY INC	07/17/2014	32.317	wv	MARSHALL	841	478	1367964
Q081864049	MARY E RIST	NOBLE ENERGY INC	07/17/2014	32.317	wv	MARSHALL	B41	476	1367963
Q081864050	PENNY JO ADAMS	NOBLE ENERGY INC	07/17/2014	32.817	wv	MARSHALL	841	474	1357960
Q081864051	WILLIAM RIST	NOBLE ENERGY INC		32.317					
	TTICUPATI AUST		07/17/2014		WV	MARSHALL	841		
	I DETRICT A LUDD CTARD				wv l			472	
Q081864058	PATRICIA A LIBB ET VIR	NOBLE ENERGY INC	07/17/2014	32,317		MARSHALL	844	462	136958
Q081864058 Q085150012	BOBBIE SUE WOOD	NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/17/2014	0,48	wv	MARSHALL	839		136958
Q085150012	BOBBIE SUE WOOD JOHN DALE ANDERSON ET	NOBLE ENERGY INC	07/17/2014	0.48	wv_	MARSHALL	839	462 204	1369580 1365465
Q085150012 Q081864060	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX	NOBLE ENERGY INC	07/17/2014 07/18/2014	0.48 32.317	wv wv	MARSHALL MARSHALL	839 843	462 204 238	1369580 1366465 1368866
Q085150012 Q081864060 Q085150007	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECL A TRUAX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014	0.48 32.317 0.48	wv wv wv	MARSHALL MARSHALL MARSHALL	839 843 836	462 204 238 453	1369580 1366469 1368866 1365387
Q085150012 Q081864060 Q085150007 Q085438010	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECIL ATRUAX ERNEST BLAKE ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014	0.48 32.317 0.48 0.379	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839	462 204 238 453 222	1369580 1365465 1368866 1365387 1365387
Q085150012 Q081864060 Q085150007 Q085438010 Q085150013	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECIL A TRUAX ERNEST BLAKE ET UX NIKA WOOD	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014	0.48 32.317 0.48 0.379 0.48	wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 B43 836 839 839	462 204 238 453 222 220	1369580 1365465 1368866 1365387 1366497 1366497
Q085150012 Q081864060 Q085150007 Q085438010	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECIL ATRUAX ERNEST BLAKE ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014	0.48 32.317 0.48 0.379	wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839	462 204 238 453 222	1369580 1365465 1368866 1365387 1366497 1366497
Q085150012 Q081864060 Q085150007 Q085438010 Q085150013 Q085150009	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECIL ATRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48	wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839	462 204 238 453 222 220 198	1369586 1365465 13658866 1365387 1366497 1366496 1366496
0085150012 0081864060 0085150007 0085438010 0085150013 0085150009 0085150011	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECIL ATRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48	wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 839	462 204 238 453 222 220 198 202	1369580 1366465 1368866 1365387 1366497 1366490 1366466 1366466
0085150012 0081864060 0085150007 0085438010 0085150013 0085150009 0085150011 0081864052	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICH WOOD ET UX MARY ETINGLER ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/23/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 0.48 32.317	wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 839 839	462 204 238 453 222 220 198 202 202 229	1369586 136646 1368866 136538 136649 1366490 1366466 1366466 1366468
0085150012 0081864060 0085150007 0085438010 0085150013 0085150009 0085150011	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAXE ET UX NIKA WOOD JOSEPH WOOD SAM NICH WOOD ET UX MARY ET INGLER ET VIR WILLIAM R DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48	wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 839	462 204 238 453 222 220 198 202	1369586 136646 1368866 136538 136649 1366490 1366466 1366466 1366468
0085150012 0081864060 0085150007 0085150013 0085150013 0085150019 0085150011 0081854052 0087970009	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNILAP PATRICIA ANN BELCH ET	NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/23/2014 07/25/2014 07/25/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 0.48 0.48 32.317 0.886	wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 843 842	452 204 238 453 222 220 198 202 229 30	1369586 1365469 136539 1366497 1366497 1366496 1366466 1366466 1366466 1368852 1368197
0085150012 0081864060 0085150007 0085438010 0085150013 0085150009 0085150011 0081864052	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAXE ET UX NIKA WOOD JOSEPH WOOD SAM NICH WOOD ET UX MARY ET INGLER ET VIR WILLIAM R DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/23/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 0.48 32.317	wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 839 839	462 204 238 453 222 220 198 202 202 229	1369586 1365469 136539 1366497 1366497 1366496 1366466 1366466 1366466 1368852 1368197
0085150012 0081864060 0085150007 0085438010 0085459013 0085150013 0085150019 0081654052 0087970011	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICH WOOD ET UX MARY ETINGLER ET VIR WILLIAM R DUNIAP PATRICIA ANN BELCH ET VIR UNDA DARE BROWN ET	NOBLE ENERGY INC NOBLE ENERGY INC	07/137/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/25/2014 07/25/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.817 0.885 0.885	wv wv wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 843 842 841	462 204 238 453 222 220 198 202 229 30 78	1369580 1366465 1365465 1365497 1365497 1365495 1366456 1366456 1366855 1368855 1368855 1368137
0085150012 0081864060 0085150007 0085438010 0085150019 0085150019 0085150019 0081854052 0087970009 0087970011 0087970012	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICH WOOD SAM NICH WOOD SAM NICH WOOD TUX MARY ETINGLER ET VIR WILLIAM R DUNLAP PATICICA ANN BELCH ET VIR UNDA DIAARE BROWN ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885	wv wv wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 843 842 841 841	462 204 238 453 222 220 198 202 229 30 78 458	1369580 1365465 13658866 1365387 1366497 1366497 1366496 1366456 1366456 1366456 1366855 1368855 1368137 1367515
0085150012 0081864060 0085150007 0085438010 0085459013 0085150013 0085150019 0081654052 0087970011	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSÉPH WOOD SAM NICH WOOD ET UX MARY ETINGLER ET VIR WILLIAM R DUNIAP PATRICIA ANN BELCH ET VIR UNDA DARE BROWN ET	NOBLE ENERGY INC NOBLE ENERGY INC	07/137/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/25/2014 07/25/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.817 0.885 0.885	wv wv wv wv wv wv wv wv wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 843 842 841	462 204 238 453 222 220 198 202 229 30 78	1369580 1365465 13658866 1365387 1366497 1366497 1366496 1366456 1366456 1366456 1366855 1368855 1368137 1367515
QQ85150012 QQ81864060 QQ85150007 QQ85150007 QQ85150013 QQ85150013 QQ85150013 QQ85150011 QQ85150011 QQ8797009 QQ87970011 QQ87970012 QQ87970012 QQ85150010	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNAP PATRICIA ANN BELCH ET VIR UNDA IDANE ROWIN ET VIR CHARLES JAN WOOD	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.885 0.48	WV WV WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 843 842 841 841 839	462 204 238 453 222 220 198 202 229 30 78 78 468 200	1369580 1365465 1365866 1365387 1366499 1366499 1366469 1366466 1368865 1368865 1368855 13687515 1367956 13667457
Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150013 Q085150013 Q085150011 Q081854052 Q087970009 Q087970011 Q087970012 Q085150010 Q085150014	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NIKAI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR UNDA DAARE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/30/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.885 0.48 0.48	WV WV WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 843 842 844 841 839 841 841 839 841	462 204 238 453 222 220 198 202 229 30 78 468 200 360	1369560 1365465 1365465 1365397 1366497 1366497 1366456 1366455 136855 1368137 1367515 1367515 1367515 1367515 1367825
0085150012 0081864060 0085150007 0085150007 0085150013 0085150013 0085150013 0085150013 0085150013 0087970009 0087970012 0085150014 0085150014	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR UNDA DIANE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL	NOBLE ENERGY INC NOBLE ENERGY INC	07/137/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/31/2014 07/31/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48	WV WV WV WV WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 643 836 839 839 839 843 842 841 841 841 841 842 841	462 204 238 453 222 220 198 220 229 30 78 78 468 200 360 40	1369560 1366465 1366866 1365392 1366497 1366497 1366497 1366497 1366495 1368855 1368855 1368832 1367515 1367555 1367555 1367555 1367825 1367825 1367825
Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150013 Q085150013 Q085150011 Q081854052 Q087970009 Q087970011 Q087970012 Q085150010 Q085150014	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NIKAI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR UNDA DAARE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/30/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.885 0.48 0.48	WV WV WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 843 842 844 841 839 841 841 839 841	462 204 238 453 222 220 198 202 229 30 78 468 200 360	1369560 1366465 1366866 1365392 1366497 1366497 1366497 1366497 1366495 1368855 1368855 1368832 1367515 1367555 1367555 1367555 1367825 1367825 1367825
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Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150013 Q085150019 Q085150019 Q087970009 Q087970012 Q087970012 Q085150014 Q085150014 Q087970008 Q087970008	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY ETINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR UNDA DIANE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E KIEL ALICE E DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC	07/137/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/31/2014 08/05/2014 08/05/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.885 0.885	WV WV WV WV WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 843 842 841 841 839 844 841 842 842 842	462 204 238 453 222 220 198 202 229 30 78 30 78 468 200 360 40 36 32	1369560 1365465 1365866 136587 1366495 1366495 1366495 1366456 1366456 1366456 1367515 1367515 1367515 1367525 1367625 136785 136785
Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150019 Q085150019 Q085150019 Q087970009 Q087970019 Q087970019 Q087970010 Q087970010 Q087970010 Q087970010	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNILAP PATRICIA ANN BELCH ET VIR UNDA DIANE ROWN ET VIR CHARLES LAN WOOD BILL LEANNE WOOD ET UX DAVID E KEL ALICE E DUNILAP LARY W DINILAP ET UX DAVID E KEL	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/31/2014 08/05/2014 08/05/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 643 836 839 839 839 839 843 842 841 841 839 841 841 839 841 842 842 842 842	462 204 238 453 222 220 198 202 229 30 30 78 78 468 200 360 40 36 36 35	1369560 1365465 1365465 1365397 1366497 1366497 1366496 1366496 1366496 13668955 1368937 1367515 13677515 13677515 13677515 13677815 1368137 1368133
Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150013 Q085150019 Q085150019 Q087970009 Q087970012 Q087970012 Q085150014 Q085150014 Q087970008 Q087970008	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY ETINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR UNDA DIANE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E KIEL ALICE E DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC	07/137/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/31/2014 08/05/2014 08/05/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.885 0.885	WV WV WV WV WV WV WV WV WV WV WV WV WV	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 843 842 841 841 839 844 841 842 842 842	462 204 238 453 222 220 198 202 229 30 78 30 78 468 200 360 40 36 32	1367855 1369866 1369866 1368866 1368866 1368467 1366497 1366497 1366497 1366497 1366456 1368855 1368855 1368855 1368855 1367825 1367825 1367825 1368133 1368133
QQ85150012 QQ81864060 QQ85150007 QQ85150007 QQ85150009 QQ85150013 QQ85150019 QQ85150019 QQ87970009 QQ87970009 QQ87970011 QQ87970017 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNAP PATRICIA ANN BELCH ET VIR UNDA DANKE ROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/23/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 08/05/2014 08/05/2014 08/05/2014	0.48 32.317 0.48 0.373 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 844 839 839 839 839 839 841 841 841 839 842 842 841 842 842 842 842 842 842 842 842 842 842 842 842 842	462 204 238 453 222 220 30 202 229 30 78 468 200 360 40 366 360 32 5 5 26	1369560 1365465 13658367 1366497 1366497 1366497 1366456 1366456 13668532 1367519 1367519 1367519 13677519 13677519 13677519 1367825 1366467 1368133 1368133
QQ85150012 QQ81864060 QQ85150007 QQ85150007 QQ85150013 QQ85150019 QQ85150019 QQ85150019 QQ87970009 QQ87970019 QQ87970010 QQ87970010 QQ87970010 QQ87970014 QQ87970014 QQ87970014 QQ87970013	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY ETINGLER ET VIR WILLIAM R DUNILAP PATRICIA ANN BELCH ET VIR UNDA DIAANE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNILAP LARRY W DUNILAP ET UX LARRY W DUNILAP ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/31/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 643 836 839 839 839 839 843 842 841 841 841 842 842 842 842 842 842 842 842	462 204 238 453 222 220 198 202 229 30 30 78 78 468 200 360 40 360 40 35 25 25	1369560 1366465 1365392 1366497 1366497 1366497 1366497 1366496 1366495 1366455 1368132 1367515 1367555 1367555 1367555 1367555 1367825 1368133 1368133 1368132 1368135
QQ85150012 QQ81864060 QQ85150007 QQ85150007 QQ85150009 QQ85150013 QQ85150019 QQ85150019 QQ87970009 QQ87970009 QQ87970011 QQ87970017 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007 QQ87970007	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TUNGLER ET VIR WILLIAM R DUNLAP PATRICIA AND RELCH ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC	07/17/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/23/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 08/05/2014 08/05/2014 08/05/2014	0.48 32.317 0.48 0.373 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 844 839 839 839 839 839 841 841 841 839 842 842 841 842 842 842 842 842 842 842 842 842 842 842 842 842	462 204 238 453 222 220 30 202 229 30 78 468 200 360 40 366 360 32 5 5 26	1369560 1366465 1365392 1366497 1366497 1366497 1366497 1366496 1366495 1366455 1368132 1367515 1367555 1367555 1367555 1367555 1367825 1368133 1368133 1368132 1368135
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Q085150012 Q081864060 Q085150007 Q085150007 Q085150010 Q085150011 Q085150011 Q081864052 Q087970012 Q085150010 Q087970012 Q085150010 Q087970012 Q085150010 Q085150010 Q08517970012 Q0857970010 Q087970010 Q087970015 Q087970014 Q087970013 Q0850007 Q0850002 Q0850004	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DURLAP PATRICIA ANN BELCH ET VIR UNDA DIARE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX MARY E BASSETT CHARLES HOWARD BASSETT RET UX BARABAK KAY EWING ET	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/30/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.48 0.885 0.48 0.885 0.48 0.885 0.48 0.885 0.48 0.885 0.885 0.885 0.885 0.885 0.885 0.885 0.94 0.94 0.94 0.94 135	wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 843 842 841 841 842 842 842 842 842 844 841 841 842	462 204 238 453 222 220 198 202 229 229 30 78 468 200 360 40 36 360 40 36 36 25 25 25 352 1	136958 136546 136546 136546 136546 136549 136646 136646 136646 136646 136646 136646 136646 136646 136645 136751 136751 136782 136813 136813 136813 136746 1367762 136815
Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150019 Q085150019 Q085150019 Q085150011 Q087970009 Q087970019 Q087970010 Q087970010 Q087970010 Q087970010 Q087970019 Q087970009 Q087970009 Q087970007 Q087970009 Q08797009 Q087970009 Q08797009 Q08797009 Q08797009 Q097970009 Q0979	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNILAP PATRICIA ANN BELCH ET VIR UNDA DIANE BROWN ET VIR CHARLES LAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNILAP LARRY W DUNILAP ET UX MARY E BASETT CHARLES KOWARD BASETT IR ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/23/2014 07/23/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 08/05/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014 08/12/2014	0.48 32.317 0.48 0.373 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL	839 843 843 836 839 839 839 839 841 841 841 839 841 842 841 839 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 841 841	462 204 238 453 222 220 229 30 78 30 78 468 200 30 78 30 78 30 360 360 360 32 5 26 25 362	1369580 1365465 1365465 1365497 1365497 1365497 1365497 1365497 1365497 1365497 1365497 1365497 1366497 1365497 136
0085150012 0081864060 0085150007 0085150007 0085150013 0085150013 0085150019 0085150019 0085150010 0081854052 0087970011 0087970012 0085150010 0085150010 0085150010 0087970010 0087970010 0087970015 0087970013 0086905002 0086905002	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR UNDA DANLE BROWN ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX BARBARA KAY FWING ET VIR BARBARA KY FWING ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/30/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.48 0.885 0.48 0.885 0.48 0.885 0.48 0.885 0.48 0.885 0.885 0.885 0.885 0.885 0.885 0.885 0.94 0.94 0.94 0.94 135	wv wv	MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL MARSHALL	839 843 836 839 839 839 839 843 842 841 841 842 842 842 842 842 844 841 841 842	462 204 238 453 222 220 198 202 229 229 30 78 468 200 360 40 36 360 40 36 36 25 25 25 352 1	1369560 1366465 1368366 1365397 1366497 1366497 1366496 1366456 1366456 1366855 1368352 1367519 1367755 1367755 13677855 13677855 1368137 1368133
Q085150012 Q081864060 Q085150007 Q085150007 Q085150009 Q085150011 Q085150012 Q085150013 Q085150011 Q085150012 Q087970009 Q087970012 Q087970012 Q087970012 Q087970012 Q087970013 Q08797013 Q08797013 Q087970014 Q087970015 Q0850004 Q086805011 Q086805011	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX MARY E ROWARD BASSETT JR ET UX BARBAR KAY EWING ET VIR UNDA DIANE BROWN ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 08/05/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL	839 843 836 839 839 839 839 839 839 839 839 839 841 842 841 842 842 842 842 842 842 842 842 841 842 842 842 841 842 842 842 842 842 841	462 204 238 453 222 220 198 202 229 30 78 458 200 78 458 200 360 360 36 36 32 5 26 352 352 352 34 470	1369580 1365465 1365465 1365497 1366497 1366497 1366497 1366450 1366450 1367511 13677515 13677515 13677515 1367825 1368133 1368134 1367825 1368134 1368134
Q085150012 Q081864060 Q085150007 Q085150007 Q085150013 Q085150013 Q085150013 Q085150010 Q087970009 Q087970010 Q087970010 Q087970010 Q087970010 Q087970010 Q087970010 Q087970010 Q087970010 Q087970013 Q087970014 Q087970000 Q087970000000000000000000000000000000000	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY ETINGLER ET VIR WILLIAAR DUNLAP PATRICIA ANN BELCH ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX MARY E BASSETT CHARLES HOWARD BASSETT IR ET UX BARBARA KAY EWING ET VIR UNDA DIANE BROWN ET VIR DAVID ENTL	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/31/2014 08/05/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014 08/14/2014 08/14/2014 08/15/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL	839 643 836 839 839 839 839 839 839 839 841 841 842 841 842 841 842 842 842 842 842 842 842 842 842 842 842 842 842 842 842 841 842 841 842 841 841	462 204 238 453 222 220 198 202 229 30 78 468 200 360 40 360 40 36 36 32 350 40 36 25 362 1 1 34 470 454	136956 136546 136546 136546 136546 136549 136549 136649 136649 136646 1368455 1368455 1367515 1367515 1367515 136732 1368133 1368139 1368134 1367582 1368134 1367582 1368134 1367582 136782 136788 136788 136788 136788 136788 136788 136788 136788
Q085150012 Q081864060 Q085150007 Q085150007 Q085150007 Q085150013 Q085150013 Q085150013 Q085150013 Q085150013 Q085150013 Q087970009 Q087970012 Q087970012 Q085150010 Q085150010 Q0857970012 Q087970008 Q087970014 Q087970015 Q087970014 Q087970013 Q08650002 Q08650011 Q08650011 Q08650011 Q08650011 Q08650011 Q08650011 Q08650011 Q0865011 Q0865011 Q0865011 Q0865011 Q0865011	BOBBIE SUE WOOD JOHN DALE ANDERSON ET UX CECILA TRUAX ERNEST BLAKE ET UX NIKA WOOD JOSEPH WOOD SAM NICKI WOOD ET UX MARY E TINGLER ET VIR WILLIAM R DUNLAP PATRICIA ANN BELCH ET VIR CHARLES JAN WOOD BILL LEANNE WOOD ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX DAVID E RIEL ALICE E DUNLAP LARRY W DUNLAP ET UX MARY E ROWARD BASSETT JR ET UX BARBAR KAY EWING ET VIR UNDA DIANE BROWN ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	07/13/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/18/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 07/25/2014 08/05/2014 08/05/2014 08/05/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014 08/12/2014	0.48 32.317 0.48 0.379 0.48 0.48 0.48 32.317 0.885 0.885 0.885 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	wv	MARSHALL MARSHALL	839 843 836 839 839 839 839 839 839 839 839 839 841 842 841 842 842 842 842 842 842 842 842 841 842 842 842 841 842 842 842 842 842 842	462 204 238 453 222 220 198 202 229 30 78 458 200 78 458 200 360 360 36 36 32 5 26 352 352 352 34 470	1369580 1365465 1365465 1365497 1366497 1366497 1366497 1366450 1366450 1367511 13677515 13677515 13677515 1367825 1368133 1368134 1367825 1368134 1368134

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

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	RUTH ANN WALLACE ET		1	T	<u> </u>	1	γ	Т	T
Q086805003	VIR	NOBLE ENERGY INC	08/19/2014	135	wv	MARSHALL	841	364	1367827
Q086805006 Q086805010	JEAN CTHOMAS	NOBLE ENERGY INC	08/19/2014	135	wv	MARSHALL	842	28	1368131
	RUTH E BASSETT		08/20/2014	135	wv	MARSHALL	841	449	1367942
Q985805005	MEADOWS ET VIR ELIZABETH A	NOBLE ENERGY INC	08/20/2034	135	wv	MARSHALL	842	38	1368136
Q085805007	STRAUSBAUGH ET VIR	NOBLE ENERGY INC	08/20/2014	135	wv	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 Q081864055	JESSE A WILSON TROY T WILSON	NOBLE ENERGY INC NOBLE ENERGY INC	08/23/2014	92.317 32.917	WV WV	MARSHALL MARSHALL	<u>842</u> 842	47	1358140
			0423/2024			MARSHAU,	042	31	1368144
Q081854055	ELLA J MCCARDLE ET VIR KIMBERLY S PIERSON ET	NOBLE ENERGY INC	08/23/2014	32.917	<u>wv</u>	MARSHALL	842	55	1368146
Q081864057	VIR	NOBLE ENERGY INC	08/23/2014	32.317	wv	MARSHALL	842	53	1368120
Q081864059 Q085150015	BLAINE M SCHON ET UX RONALD L NESTOR	NOBLE ENERGY INC NOBLE ENERGY INC	08/26/2014	32.317 0.48	WV WV	MARSHALL	843	235	1368866
			00/23/2024			MANSHALL	842	347	1368586
Q085150016	KAREN L RIDENOUR ET UX CYNTHIA P HOPKINS	NOBLE ENERGY INC	08/29/2014	0.48	wv	MARSHALL	842	349	1368587
Q086805008	REVOCABLE TRUST UTA	NOBLE ENERGY INC	09/03/2014	135	w	MARSHALL	841	366	1367828
Q081864054 Q085150017	APRIL D HOGAN ET VIR CRYSTAL KOSKY ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	09/03/2014	32,317	wv	MARSHALL	842	49	1368143
	CRISIAL ROSAT ET VIA	NOBLE ENERGY INC	09/05/2014	0.48	w	MARSHALL	842	351	1368588
Q087970006	LARRY W DUNLAP ET UX WEST VIRGINIA	NOBLE ENERGY INC	09/08/2014	1.825	wy	MARSHALL	845	17	1370410
	DEPARTMENT OF								
Q088417001	TRANSPORTATION	NOBLE ENERGY INC	09/09/2014	23.53	wv	MARSHALL	845	332	1370109
Q087970001 Q087970003	DAVID E RIEL ALICE E DUNLAP	NOBLE ENERGY INC	09/09/2014	1.826	WV	MARSHALL	842	514	1368695
4047370003	PEGGIANN E MOSHER ET	NOBLE ENERGY INC	09/09/2014	1,826	wv	MARSHALL	842	496	1368686
0074548004	VíR	NOBLE ENERGY INC	09/10/2014	24.6	wv	MARSHALL	842	508	1368692
Q074548002 Q074648003	LOIS J LAND ET VIR	NOBLE ENERGY INC	09/10/2014	24.6	WV	MARSHALL	842	500	1368688
0074648005	JAMES N OLIVER	NOBLE ENERGY INC	09/10/2014 09/10/2014	24.6 24.6	WV WV	MARSHALL	842 842	502 498	1368689
Q085150018	TERRY GRAY	NOBLE ENERGY INC	09/11/2014	0.48	wv	MARSHALL	842	361	1368687
	PATRICIA ANN BELCH ET				[
Q087970002 Q087970004	VIR WILLIAM R DUNLAP	NOBLE ENERGY INC NOBLE ENERGY INC	09/12/2014 09/12/2014	1.826	WV WV	MARSHALL	842 844	504	1368690
40000000	LINDA DIANE BROWN ET	HODE ENERGY INC	03/12/2014	1.010	<u> •••</u>	MARSHALL	844	530	1369702
Q087970005	VIR	NOBLE ENERGY INC	09/12/2014	1.826	wv	MARSHALL	844	522	1369698
Q083768034 Q083768036	JULIE SPRINGWATER JACK M FOREMAN	NOBLE ENERGY INC NOBLE ENERGY INC	09/17/2014	100.7	WV	MARSHALL	850	491	1372583
4003700000	MARY ELIZABETH VOLTZ	NOBLE ENERGY INC.	09/18/2014	100.7	wv	MARSHALL	850	503	1372589
Q083768039	ET VIR	NOBLE ENERGY INC	09/24/2014	100.7	wv	MARSHAUL	850	648	1372811
Q083768033 Q081854062	REVAJ KARD ET VIR DINA A YOUTZ ET VIR	NOBLE ENERGY INC	09/24/2014	100.7	WV	MARSHAU	844	526	1369700
Q081854061	C RICHARD WILSON	NOBLE ENERGY INC NOBLE ENERGY INC	09/27/2014 10/07/2014	32.317 32.317	wv wv	MARSHALL	850 850	497 493	1372586 1372584
Q083768043	ROY JOSEPH LEACH	NOBLE ENERGY INC	10/10/2014	100.7	wv	MARSHALL	859	487	1377698
Q074548006	CRISTI LANAGHAN ET VIR	NONE FUEDOWING							
Q074648007	JANET MALER ET VIR	NOBLE ENERGY INC NOBLE ENERGY INC	10/14/2014 10/14/2014	<u>24.6</u> 24.6	wv wv	MARSHALL MARSHALL	846 846	327 325	1370567
Q074548008	JOAN KIDD ET VIR	NOBLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	845	329	1370570
0074648009	KENNETH & DLIVER ET UX	NOBLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	846	323	1370565
407404000	LAWRENCE K OLIVER II ET	HOULE LITENST INC	10/24/2024			MARSHALL	045	323	13/0305
Q074548011	UX	NOSLE ENERGY INC	10/14/2014	24.6	wv	MARSHALL	849	645	1372129
Q083768032 Q083768035	DOUGLAS E MILLER JULIE SPRINGWATER	NOBLE ENERGY INC NOBLE ENERGY INC	10/16/2014 11/07/2014	100.7	WV WV	MARSHALL MARSHALL	844 850	520 499	1369697 1372587
Q083768041	JACK M FOREMAN	NOBLE ENERGY INC	11/08/2014	100.7	wv	MARSHALL	854	178	1375607
Q081864063	SUSAN J BURK ET VIR	NOBLE ENERGY INC	11/19/2014	32.317	wv	MARSHALL	851	204	1373172
Q074548013	NICHOLAS A OLIVER ET UX	NOBLE ENERGY INC	11/20/2014	24.5	. wu	MARSHALL	850	153	1372250
Q074648015	DEVIN J OLIVER	NOBLE ENERGY INC	11/20/2014	24.6	WV	MARSHALL	851	426	1373450
Q074648010	CHADLOLIVER	NOBLE ENERGY INC	11/20/2014	24.6	wv	MARSHALL	849	649	1372132
Q074648012 Q074648014	WILLIAM N KIDD JARED K KIDD	NOBLE ENERGY INC NOBLE ENERGY INC	11/25/2014 11/25/2014	24.6	wv wv	MARSHALL MARSHALL	850 851	155 424	1372251 1373449
	and a line of	A REAL PRIME AND PRIME		44.0		DEPARTMENT.	160	-44	15/3447
Q090332001	WILLIAM E MILLER ET UX	NOBLE ENERGY INC	12/09/2014	35,45	wv	MARSHALL	858	256	1376988
Q083768040 Q083768037	SCOTT C HARRIS ET UX ANITA M MASON	NOBLE ENERGY INC NOBLE ENERGY INC	12/12/2014 12/18/2014	100.7	wv wv	MARSHALL	851	394	1373422
		NAME ENERGY INC	10/20/2014	100.7		MARSHALL	851	5	1372816
Q083768038	BONNIE H GRISELL ET VIR	NOBLE ENERGY INC	12/18/2014	160,7	wv	MARSHALL	850	646	1372810
Q091220005	GEORGE EARNEST HENRY	NOBLE ENERGY INC	01/09/2015	1.269	wv	MARSHALL	863	214	1379364
	JODI ANN WILSON-								
Q081864065 Q089614000	JUNE M MORRIS	NOBLE ENERGY INC NOBLE ENERGY INC	01/09/2015	32.317	WV.	MARSHALL	863	223	1379368 1374048
Q091220004	GEORGE E HENRY	NOBLE ENERGY INC	01/20/2015 01/20/2015	0.322	wv wv	MARSHALL MARSHALL	852 863	347 211	1374048
Q091220002	CONNIE S HENRY	NOBLE ENERGY INC	01/22/2015	1.269	wv	MARSHALL	863	217	1379365
0091220001	LIONEL E HENRY JR	NOBLE ENERGY INC	01/23/2015	1.269	WV	MARSHALL	863	220	1379366
Q091220003 Q091220006	BONNIE LWOOD	NOBLE ENERGY INC NOBLE ENERGY INC	01/23/2015 01/23/2015	1.269	wv wv	MARSHALL	863 865	208 571	1379362 1380536
Q090307000	DAVID A BEYSER ET UX	NOBLE ENERGY INC	01/28/2015	0.2	WV	MARSHALL	858	260	1376990
Q090625000	CRYSTAL B DARRAH	NOBLE ENERGY INC	02/03/2015	1.726	ŴV	MARSHALL	858	252	1376986
Q090080000	STEVEN LLOYD ET UX	NOBLE ENERGY INC	02/03/2015	0.85	_ wv	MARSHALL	853	314	1374598
Q087970019	JOSHUA DAVID HARTLEY	NOBLE ENERGY INC	02/05/2015	0.886	wv	MARSHALL	853	318	1374602
Q091280000	BARBARA ANDERSON	NOBLE ENERGY INC	02/05/2015	0.48	wv	MARSHALL	860	498	1378209
0090391011	MARTHA FRANCES ULCAK	NOBLE ENERGY INC	02/10/2015	1.68	w	MARSHALL	858	315	1377177
Q090391008	NANCYLSNYDER	NOBLE ENERGY INC	02/10/2015	1.68	WV	MARSHALL	858	313	1377182
				1 60					
Q090391003 Q090391007	KENNETH MORRIS ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	02/10/2015 02/10/2015	1.68	wv wv	MARSHALL MARSHALL	857 858	529 319	1376586 1377184

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

0000201000	SOUTHWESTERN GUIDE	Monie		1		1	1	1	T
Q090391002 Q090391005	DOGS INC COURTNEY D HALL	NOBLE ENERGY INC	02/10/2015	1.68	wv	MARSHALL	858	265	137699
0090351005	COUNTRET D HALL	NOBLE ENERGY INC	02/10/2015	1.68	wv	MARSHALL	857	595	137658
0085150021	DONNA S DIMARCO ET VIR	NOBLE ENERGY INC	02/12/2015	0.48	wv	MARSHALL	859	502	137770
Q085150020	ANNA LEE HAKR	NOBLE ENERGY INC	02/12/2015	0.48	wv	MARSHALL	859	498	137770
Q085150022	CLARENCE BURGE ET UX	NOBLE ENERGY INC	02/12/2015	0.48	WV	MARSHALL	860	504	137821
0003759044					1		T	1	1
0083758044	LESLIE ANN BLYTHE ET VIR	NOBLE ENERGY INC	02/14/2015	100.7	WV	MARSHALL	860	535	137822
Q083768049	MCWHORTER ET AL	NOBLE ENERGY INC				1			
Q091091000	RICHARD HYER ET UX	NOBLE ENERGY INC	02/14/2015	100.7	WV	MARSHALL	860	529	137822
0090391001	H JAY ULBRICH	NOBLE ENERGY INC	02/18/2015 02/19/2015	2.28	WV WV	MARSHALL	859	500	137770
	MARILYN ULBRICH		04,2013	1.00	WV	MARSHALL	858	258	137698
Q090391005	CHALMERS ET VIR	NOBLE ENERGY INC	02/19/2015	1.68	wv	MARSHALL	858	254	137698
	BLYE ULBRICK JENSCHKE		1						1.5/050
Q090391010	ETVIR	NOBLE ENERGY INC	02/19/2015	1.68	wv	MARSHALL	858	323	137718
Q090391013	BRYCE E ULBRICH ET UX	NOBLE ENERGY INC	02/19/2015	1.68	WV	MARSHALL	860	501	137821
Q090391012	ROBERT LEE SMITH ET UX					ł		1	
Q090391009	JUSTIN SMITH	NOBLE ENERGY INC	02/19/2015 02/19/2015	1.68	WV .	MARSHALL	859	504	137770
	JACQUELYN JOHNSON ET	HOLL LILIOT IN	0415/005	1.68	_ wv	MARSHALL	858	321	137718
Q083768042	VIR	NOBLE ENERGY INC	02/26/2015	100.7	wv	MARSHALL	860	523	137821
									10/020
Q090332003	PATTY BERISFORD ET VIR	NOBLE ENERGY INC	02/27/2015	70.45	wv	MARSHALL	860	555	137822
	LORETTA JEAN RIGGLE ET						1		
0090332002	ViR	NOBLE ENERGY INC	02/27/2015	70.45	WV	MARSHALL	860	538	137822
Q090332007	ROBERT RANDOLPH								
	WOODBURN ET UX	NOBLE ENERGY INC	02/27/2015	70.45	wv	MARSHALL	860	568	137823
Q083768050	LEROY MILLER	NOBLE ENERGY INC	03/04/2015	100.7	wv	MARSHALL	860	532	137822
Q083768047	REBECCA LOULLEN ET VIR	NOBLE ENERGY INC	03/07/2015	100.7	wv	MARSHALL			137822
	FRANCES E RUTLEDGE ET					www.warifill	860	558	15/622
Q083768048	VIR	NOBLE ENERGY INC	03/07/2015	100.7	wv	MARSHALL	860	513	137821
Q083768052	STEVEN POND ET UX	NOBLE ENERGY INC	03/08/2015	100.7	wv	MARSHALL	860	574	137823
Q083758045	GREGORY 5 MILLER ET UX	NOBLE ENERGY INC	03/12/2015	100.7	wv	MARSHALL	860	517	137821
	LIEATUER O LANG COLO	MONTENING							
Q083758055	HEATHER D MALO ET VIR	NOBLE ENERGY INC	03/12/2015	160.7	WV	MARSHALL	866	336	1380976
Q063758064	MANCHEGO	NOBLE ENERGY INC	020320015	100.7	1187				
4005700004	MURIEL ANNE MILLER ET	NODE ENERGY INC	03/12/2015	100.7	wv	MARSHALL	873	104	1386320
Q083768094	VIR	NOBLE ENERGY INC	03/14/2015	168	wv	MARSHALL	860	541	1378224
	MURIEL ANNE MILLER ET								10/022
Q083768045	VIR	NOBLE ENERGY INC	03/14/2015	100.7	wv	MARSHALL	860	545	1378225
Q083768053	IAN KIPP HAGEMANN	NOBLE ENERGY INC	03/16/2015	100.7	WV	MARSHALL	860	520	1378217
0091288001	PATRICIA Y DARRAH	NOBLE ENERGY INC	03/17/2015	3.081	wv	MARSHALL	860	549	1378226
Q091288004 Q091288006	STANLEY DARRAH ET UX	NOBLE ENERGY INC	03/17/2015	3.081	WV	MARSHALL	860	571	137823
Q083768084	RICHARD DARRAH CLARK D CHASE ET UX	NOBLE ENERGY INC NOBLE ENERGY INC	03/17/2015	3.081	WV	MARSHALL	860	562	1378231
0091953000	PATRICIA Y DARRAH	NOBLE ENERGY INC	03/19/2015 03/23/2015	2.37	WV WV	MARSHALL	878	357 552	1390933
Q091288002	DAVID A TAKACH ET UX	NOBLE ENERGY INC	03/24/2015	3.081	WV	MARSHALL	860	507	1378213
	DONNA L SIDIROPOLIS ET								
Q091288005	Vir	NOBLE ENERGY INC	03/24/2015	3.061	wv	MARSHALL	860	S10	1378214
Q083768093	DAVID LEE EVANS JR ET UX	NOBLE ENERGY INC	03/25/2015	168	WV	MARSHALL	864	180	1379920
Q083768051 Q091288003	DAVID LEE EVANS JR ET UX RICHARD MORGAN	NOBLE ENERGY INC NOBLE ENERGY INC	03/25/2015	100.7 3.081	WV	MARSHALL	864	187	1379923
dra 199002	JOSEPH H JACKSON JR ET	NOBLE ENCAGE INC	03/31/2015	5.061	wv	MARSHALL	860	565	1378232
Q091664000	UX	NOBLE ENERGY INC	04/04/2015	0,5	wv	MARSHALL	860	526	1378219
Q076872007	TRACY M KESTERSON	NOBLE ENERGY INC	04/10/2015	2,198	wv	MARSHALL	860	579	1378238
Q091524003	TRACY M KESTERSON	NOBLE ENERGY INC	04/10/2015	2	wv	MARSHALL	860	577	1378237
Q091524001	DEBRA HARTLEY ET VIR	NOBLE ENERGY INC	04/14/2015	2	wv	MARSHALL	862	251	1378746
	MATTHEW V CONNER ET						1		
Q091524002	UX	NOBLE ENERGY INC	04/14/2015	2	wv	MARSHALL	862	253	1378749
	ANGELA CRAWFORD ET								
Q091524004 Q091524005	VIR IMALEE LLOYD ET VIR	NOBLE ENERGY INC	04/14/2015	2		MARSHALL	862	255	1378750
~031374002	MALEE LLOYD ET VIR MELISSA MILLER GIBSON	NOBLE ENERGY INC	04/14/2015	2	<u>wv</u>	MARSHALL	862	257	1378751
Q083768054	ET VIR	NOBLE ENERGY INC	04/22/2015	100.7	wv	MARSHALL	869	100	1382833
	WOODLAND HILL CHURCH						└ <u>──</u> ~~		
Q091576000	OF GOD	NOBLE ENERGY INC	04/25/2015	0.38	wv	MARSHALL	864	183	1379921
	ROBERT W RIGGENBACH								
Q091633000	JR ET UX	NOBLE ENERGY INC	04/27/2015	14.222	wv	MARSHALL	864	185	1379922
	RAYMOND K MILLER ET								
0092567000	UX	NOBLE ENERGY INC	05/05/2015	1.722	WV	MARSHALL	866	340	1380977
	WEST VIRGINIA DIVISION			ļ			ł		
Q091960000	OF NATURAL RESOURCES	NOBLE ENERGY INC	05/07/2015	134.14	wv	MARSHALL	865	558	1380535
Q083768098	RODNEY F PETERSON	NOBLE ENERGY INC	05/11/2015	168	wv	MARSHALL	870	380	1384207
Q083768056	RODNEY F PETERSON	NOBLE ENERGY INC	05/11/2015	100.7	wv	MARSHALL	866	342	1380978
Q083768062	HAROLD B CROW ET UX	NOBLE ENERGY INC	05/19/2015	100.7	WV	MARSHALL	869	102	1382834
Q083768059	RICHARD S MULLEN ET UX	NOBLE ENERGY INC	05/19/2015	100.7	. wv	MARSHALL	869	58	1982832
0083768063	BRIAN K CROW	NOBLE ENERGY INC	05/21/2015	100.7	<u></u>	MARSHALL	869	104	1382835
Q092215000 Q083768060	DAVID D DANIELS ET UX	NOBLE ENERGY INC	05/22/2015	1.369	WV	MARSHALL	869	354	1383138
Q083768060 Q083768061	JAMES B CROW ET UX GREGORY S CROW	NOBLE ENERGY INC NOBLE ENERGY INC	05/22/2015 05/22/2015	100.7	wv wv	MARSHALL MARSHALL	869 869	108	<u>1382837</u> 1382836
Q083768061 Q083768066	DAVID C MULLEN ET UX	NOBLE ENERGY INC	05/25/2015	100.7	wv wv	MARSHALL	869	358	1382836
	PRISCILLA ANN MILLER					and a state		0.00	1000141
Q083768057	HADEN	NOBLE ENERGY INC	05/27/2015	100.7	wv	MARSHALL	873	545	1387040
	SHRINERS HOSPITALS FOR								
Q090391014	CHILDREN	NOBLE ENERGY INC	05/27/2015	1.58	wv	MARSHALL	878	352	1390928
	DANIEL D HOBBS ET UX	NOBLE ENERGY INC	05/29/2015	100.7	WV	MARSHALL	873	543	1387038
Q083768058									
	1	1	1						
Q083768065	KATHLEEN HOBBS YOUNG	NOBLE ENERGY INC	05/30/2015	100.7	wv	MARSHALL	869	356	
Q083768058 Q083768065 Q083768070	KATHLEEN HOBBS YOUNG JOYCE A FIORILLI ET VIR	NOBLE ENERGY INC	05/30/2015 06/15/2015	100.7 100.7	wv wv	MARSHALL MARSHALL	869 873	356 114	1383141 1386336

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

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	KATHLEEN A SULLIVAN ET	· - ·							
Q083768095	VIR	NOBLE ENERGY INC	06/16/2015	168	wv	MARSHALL	870	364	
000000000			1 1-1				*/	364	1384194
Q083768096 Q083768097	FRANCIS F FISCHER ET UX	NOBLE ENERGY INC	06/16/2015	168	wv	MARSHALL	870	366	1384195
Q083768103	DENNIS FISCHER ET UX NORA C POWDERLY	NOBLE ENERGY INC NOBLE ENERGY INC	06/16/2015		WV	MARSHALL	870	358	1384191
Q093178000	CATHERINE P RINE	NOBLE ENERGY INC	06/16/2015	168	WV	MARSHALL	873	83	1386310
0083768057	DENNIS FISCHER ET UX	NOBLE ENERGY INC	06/16/2015	0.13	WV WV	MARSHALL	871	490	1384784
	KATHLEEN A SULLIVAN ET					MARSHALL	870	360	1384192
Q083758068	VIR	NOBLE ENERGY INC	06/16/2015	100.7	w	MARSHALL	870	362	1384193
000007500000					_	1			
Q083768069 Q083768076	FRANCIS F FISCHER ET UX NORA C POWDERLY	NOBLE ENERGY INC	06/16/2015	100.7	WV.	MARSHALL	871	494	1384787
4005700075	ANTHONY T POWDERLY ET	NOBLE ENERGY INC	06/16/2015	100.7	wv	MARSHALL	873	89	1386313
Q083768109	UX	NOBLE ENERGY INC	06/20/2015	1		1	1		
	ANTHONY T POWDERLY ET		00/20/2013	168	<u>wv</u>	MARSHALL	878	368	1390936
Q083768080	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
0083768105	MARY F WEILAND	NOBLE ENERGY INC	06/24/2015	168	WV	MARSHALL	873	126	1386350
Q083758073 Q083758078	EUGENIA A KERR MARY F WEILAND	NOBLE ENERGY INC	06/24/2015	100.7	WV	MARSHALL	873	118	1386341
	HARRIET C HERMAN ET	NOBLE ENERGY INC	06/24/2015	100.7		MARSHALL	873	124	1386348
Q083768100	VIR	NOBLE ENERGY INC	06/29/2015	168					
	HARRIET CHERMAN ET		0.125/2013	100	wv	MARSHALL	873	122	1386345
Q083768072	ViR	NOBLE ENERGY INC	05/29/2015	100.7	wv	MARSHALL	873	116	1386338
	EDWARD P POWDERLY ET		1	1					1300336
Q083768102	UX	NOBLE ENERGY INC	06/30/2015	168	wv	MARSHALL	873	85	1386311
0083768075	EDWARD P POWDERLY ET	NODIF	1	1	·			1	1
-000/000/3	JANE H BARNSTEINER ET	NOBLE ENERGY INC	06/30/2015	100,7	<u>wv</u>	MARSHALL	873	91	1386316
Q083768106	UX	NOBLE ENERGY INC	07/06/2015	168					
	JANE H BARNSTEINER ET			108		MARSHALL	873	132	1386356
Q083768074	UX	NOBLE ENERGY INC	07/06/2015	100.7	wv	MARSHALL	873	93	1386318
	NORMAN GALE JOHNSON				1	1	1	<u>† ~~</u>	1390310
Q095637000	ET UX	NOBLE ENERGY INC	07/07/2015	1.255	wv	MARSHALL	878	370	1390937
	GRANDVIEW-DOOLIN		1					1	
0095122000	PUBLIC SCHOOL SERVICE DISTRICT	NOBLE ENERGY INC			1	L		1	i
Q083768099	ELEEN T POWDERLY	NOBLE ENERGY INC	07/08/2015 07/10/2015	0.23	WV	MARSHALL	873	107	1386329
Q083768077	EILEEN T POWDERLY	NOBLE ENERGY INC	07/10/2015	100.7	wv	MARSHALL	873	81	1386309
Q083768101	JAMES E HERMAN	NOBLE ENERGY INC	07/18/2015	158	WV	MARSHALL	873	87	1386312
Q083768079	JAMES E HERMAN	NOBLE ENERGY INC	07/18/2015	100.7	wv	MARSHALL	873	128	1386351
0091524006	WILLIAM R LEVASSEUR JR	NOBLE ENERGY INC	07/22/2015	2	wv	MARSHALL	873	101	1386323
Q083768108 Q083768110	JAMEST SCHOLL	NOBLE ENERGY INC	07/24/2015	168	WV.	MARSHALL	878	365	1390934
Q083768081	SHARON LISCHOLL	NOBLE ENERGY INC NOBLE ENERGY INC	07/24/2015	168	WV	MARSHALL	878	36	1390932
Q083768082	JAMEST SCHOLL	NOBLE ENERGY INC	07/24/2015 07/24/2015	100.7	WV WV	MARSHALL MARSHALL	878	379	1390940
Q083768107	ANNE GALBALLY ET VIR	NOBLE ENERGY INC	07/28/2015	168	WV	MARSHALL	878 878	376 373	1390939 1390938
Q083768083	ANNE GALBALLY ET VIR	NOBLE ENERGY INC	07/28/2015	100.7	wv	MARSHALL	878	354	1390930
Q091524007	TOM KROL ET UX	NOBLE ENERGY INC	07/30/2015	2	wv	MARSHALL	873	98	1386321
Q083768114	MARY S SCHOLL	NOBLE ENERGY INC	07/31/2015	168	WV	MARSHALL	890	572	1401944
Q083758116									
0063/56116	SUSANNE S QUARTERMAN	NOBLE ENERGY INC	07/31/2015	168	wv	MARSHALL	890	606	1401960
Q091524008	ET VIR	NOBLE ENERGY INC	07/31/2015	2	wv	AAA DEUALI			1000000
Q083768088	MARY S SCHOLL	NOBLE ENERGY INC	07/31/2015	100.7	wv	MARSHALL MARSHALL	873 890	95 569	1386320 1401943
									1401545
Q083758090	SUSANNE S QUARTERMAN	NOBLE ENERGY INC	07/31/2015	100.7	wv	MARSHALL	890	560	1401937
Q083768115	BRIAN P POWDERLY ET UX	NOBLE ENERGY INC	08/24/2015	168	WV	MARSHALL	890	566	1401941
0083768089	PRIAN D DOWDERLY ET UN	NODIE ENTRONING							
0083768111	BRIAN P POWDERLY ET UX BRIDGET A POWDERLY	NOBLE ENERGY INC	08/24/2015 09/03/2015	100.7 168	WV	MARSHALL	890	563	1401940
Q083768085	BRIDGET A POWDERLY	NOBLE ENERGY INC	09/03/2015	100.7	wv.	MARSHALL	881 881	26 29	1392439 1392440
Q083768112	NORA K POWDERLY	NOBLE ENERGY INC	09/08/2015	168	wv	MARSHALL	881	32	1392440
Q083768086	NORA K POWDERLY	NOBLE ENERGY INC	09/08/2015	100.7	wv	MARSHALL	881	23	1392438
Q096159000	MARTHA F POWELL	NOBLE ENERGY INC	09/28/2015	1.435	WV	MARSHALL	881	21	1392437
0007433000		Nonir			1 7				
Q097423000 Q083768113	ROBERT L HENRY JR ET AL KEVIN M POWDERLY	NOBLE ENERGY INC NOBLE ENERGY INC	10/04/2015 10/08/2015	0.906	WV	MARSHALL	890	. 513	1401962
Q083768087	KEVIN M POWDERLY	NOBLE ENERGY INC	10/08/2015	168	·wv wv	MARSHALL MARSHALL	890 890	<u>5</u> 15 518	1401925 1401927
	VICTORIA A PAKROVSKY	and a second second			t			310	2701321
Q097976006	ET VIR	NOBLE ENERGY INC	10/31/2015	11.4215	wv	MARSHALL	890	599	1401958
					I				
Q097976005	MARJORIE B KIDD ET VIR	NOBLE ENERGY INC	11/05/2015	11.4215	wv	MARSHALL	890	596	1401957
0097976001	SARA B ANDERSON ET VIR	NOBLE ENERGY INC	11/170005	11 6345					
Q097976004	LORNA MARIE LEW	NOBLE ENERGY INC	11/17/2015 12/08/2015	11.4215 11.4215	wv wv	MARSHALL MARSHALL	890 890	310 602	1401563
					<u> </u>				
Q097976007	CHARLES EDWIN BLUE IV	NOBLE ENERGY INC	02/12/2016	11.4715	wv	MARSHALL	890	316	1401665
	Т			_					
Q074648001	WILLIAM N ROUPE ET UX	NOBLE ENERGY INC	02/21/2013	71.051	wv	MARSHALL	792	603	1341693
Q074648001	WILLIAM N ROUPE ET UX	NOBLE ENERGY INC	02/21/2013	71.051	wv	MADEMAL	707	£000	1941500
Q078626003	JUNE MORRIS	NOBLE ENERGY INC	08/01/2013	12.485	wv wv	MARSHALL	792 808	503 301	1341693 1351576
Q078626003	JUNE MORRIS	NOBLE ENERGY INC	08/01/2013	12,485	wv	MARSHALL	808	301	1351576
Q078626004	NANCY L SNYDER	NOBLE ENERGY INC	08/14/2013	14.485	wv	MARSHALL	808	309	1351581
Q078626004	NANCY L SNYDER	NOBLE ENERGY INC	08/14/2013	14,485	WV	MARSHALL	808	309	1351581
0070-00-0		NO01 P 1000							
0078626002	KENNETH R MORRIS ET UX	NOBLE ENERGY INC	08/16/2013	14.485	wv.	MARSHALL	808	303	1351577
Q078626002	KENNETH R MORRIS ET UX	NOBLE ENERGY INC	materia	14.485	ا ا				
0078626005	JANICE R CROOK ET VIR	NOBLE ENERGY INC	08/16/2013 08/20/2013	14.485	wv wv	MARSHALL	808 808	303	1351577 1351579
Q078626005	JANICE R CROOK ET VIR	NOBLE ENERGY INC	08/20/2013	14.485	wv wv	MARSHALL	808	305	1351579
Q088417002	WANDA MAE BLAKE	NOBLE ENERGY INC	02/03/2015	26.062	wv	MARSHALL	583	316	1374601
T	JOAN JANE PARSONS ET								
Q088417003	VIR	NOBLE ENERGY INC	02/03/2015	26.062	wv	MARSHALL	859	506	1377710
Q088417004 Q088417002	IDA L CAMPBELL WANDA MAE BLAKE	NOBLE ENERGY INC NOBLE ENERGY INC	02/03/2015 02/03/2015	26.062	WV WV	MARSHALL MARSHALL	859 583	496 315	1377704 1374601

Exhibit "A-2" KG Energy II Appalachia, i.I.C (Leases and Fee)

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	JOAN JANE PARSONS ET		1	·				·····	
Q088417003	VIR	NOBLE ENERGY INC	02/03/2015	26.062	wv	MARSHALL	1		1
0088417004	IDA L CAMPBELL	NOBLE ENERGY INC	02/03/2015				859	506	1377710
	HARRIET C VENTURA ET	House and the	wquayzura	26.062	WV_	MARSHALL	859	496	1377704
0083768091	VIR	NOBLE ENERGY INC	02/18/2016	268.7	wv	MARSHALL	894	541	1403682
	HARRIET C VENTURA ET				1				1403682
0083758091	VIR	NOBLE ENERGY INC	02/18/2016	268.7	wv	MARSHALL	894		
	CSX TRANSPORTATION					- mannat	- 0.74	541	1403682
Q095360000	INC	NOBLE ENERGY INC	08/05/2015	28.574	wv	MARSHALL	879		
	GENEVA A BASSETT				+	Investigation of the	0/3	251	1391401
CVX918645	SANCHEZ	CHEVRON U.S.A., INC	06/20/2012	133,601	wv	MARSHALL	814		
	GENEVA BASSETT					MANAGASHILL	014	399	1354110
CVX920045	SANCHEZ	CHEVRON U.S.A., INC	10/26/2013	1.399	wv	MARSHALL	813		
CVX947094	LOIS ZWOLENSKY-SFX	CHEVRON U.S.A., INC	11/02/2016	\$8,819	WV			593	1353969
CVX946510	NICOLE GATTS-SFX	CHEVRON U.S.A., INC	11/02/2016	98.819		MARSHALL	899	476	1411785
		CTREATED COLORY AND	14042010	98,819	WV	MARSHALL	899	470	1411784
CVX936053	LLOYD C. ARNOLD ET UX	CHEVRON U.S.A., INC.	10/14/2014	317,467	wv				
CVX936589	LLOYD C. ARNOLD	CHEVRON U.S.A., INC.	11/13/2014			MARSHALL	864	39	1379825
		and the start of the	1415/2014	6.74	WV	MARSHALL	863	511	1379748
CVX936591	CHARLES W. MILLER ET UX	CHEVRON U.S.A., INC.	11/19/2014	6.74	wv	MARSHALL	961	-	
CVX939752	LLOYD CARNOLD ET UX	CHEVRON U.S.A., INC.	02/13/2015	18.854			861	595	1378411
				40.034	WV	MARSHALL	915	582	1422075

Fee Number	Original Grantor	Original Grantee	Effective Date	Mineral Fee				T	Τ
		CONSOLIDATION COAL	Ellective Date	Gross Acres	State	County	Book	Page	Inst. No.
0097217000	MILLER, ADAM & MARY	COMPANY	on he hore						
	LOUCKS, CHARLES H:	CONTANT	01/05/1956	3.59	WV	MARSHALL	311	333	
	KEISTER, FENTON O, JR. ET	CONSCLIDATION COAL		1			1		
524061	AL	COMPANY	08/17/1950						
		CONSOLIDATION COAL	06/1//1930	2817.784	_wv	MARSHALL	273	326	
624074	GATTS, ALICE	COMPANY	01/09/1952	76.28				1	
	GATTS, LLOYD Q & MARY	CONSOLIDATION COAL	0400/1332	10.26	WV_	MARSHALL	282	394	
624083	WOLFE	COMPANY	01/01/1953	132.2	wv			1	
	COX, HANNAH O & J	CONSOLIDATION COAL	04/04/2555	1327	WV	MARSHALL	290	94	
624081	FRANK	COMPANY	01/01/1953	36,96					
	GATTS, ELIZABETH R J &	CONSOLIDATION COAL	Carespoor	30.30		MARSHALL	290	110	
624080	HARLEY	COMPANY	01/01/1953	21.67	wv				
	WOLFE, BLAINE & VIVIAN	CONSOLIDATION COAL		21.0/		MARSHALL	290	97	
Q097216000	ETAL	COMPANY	01/24/1956	1,775	wv				
		CONSOLIDATION COAL	04491550	1.775	WV	MARSHALL	312	100	
624150	RINE, G W & BESSIE J	COMPANY	04/09/1956	98.01	wv				
		CONSOLIDATION COAL		50.01	- 11	MARSHALL	313	200	
624145	MILLER, LESTER ET AL	COMPANY	01/07/1957	82.68	wv	MARSHALL			
		CONSOLIDATION COAL				MAASHALL	319	326	
624145	OHIO POWER COMPANY	COMPANY	04/30/1957	93.89	wv	MARSHALL	321		
						(WAILSTIALL	- 341	319	
	HOWE, NEVA J; LANDERS,	CONSOLIDATION COAL							
624302	LENA M & RICHARD O	COMPANY	01/30/1958	248.21	wv	MARSHALL	328		
	WOLFF, DELBERT & HELEN	CONSOLIDATION COAL					- 240	275	
624160	ETAL	COMPANY	03/27/1967	136,587	wv	MARSHALL	390	167	
	FRANK, ALICE LEONA &	CONSOLIDATION COAL							<u>. </u>
624169	BEN	COMPANY	01/21/1972	38.48	wv	MARSHALL	425	232	
	EDWARD DOUGLAS GUIRE							- 454	
041111		CNX LAND RESOURCES INC	09/19/2007	248.6	wv	MARSHALL	663	91	121423
	COLUMBIAN CHEMICALS								141423
041112		CNX LAND RESOURCES INC	12/07/2009	704.035	wvl	MARSHALL	691	363	1278968
	JOE PAUL WELLMAN ET								12/0328
Q090236002	UX	NOBLE ENERGY INC	08/05/2014	2	wv	MARSHALL	842	516	4360607
	THOMAS DANIEL BLUE ET							310	1368697
Q099899000	ບx	NOBLE ENERGY INC	04/17/2015	11.4215	wv	MARSHALL	858	584	1410657

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

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STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do he	reby certify that the annexed writing, bearing
date on the 151 day of July , 2018, was presented for a	nd by me, admitted to record in my office upon
the above certificate as to the parties therein named this 19^{th} day of	112 2018 at 2:57_0'clock P M.
0	
TESTF	3: Char Past Clerk.

HICHAEL NORAN BRIGHTON RESOLACES 5851 ELLSWORTH AVENUE, #1 PITTSBURGH PA 15232-1707

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STATE OF WEST VIRGINIA §

COUNTY OF MARSHALL

ASSIGNMENT AND CONVEYANCE

Marshall County Jan Pest, Clerk Instrument 1428356 08/16/2017 @ 12:08:49 PM ASSIGNMENTS Book 40 @ Page 127 Pages Recorded 25 Recording Cost \$ 33.00

THIS ASSIGNMENT AND CONVEYANCE (the "<u>Assignment</u>") is made and entered into this day of <u>AUQUSE</u>, 2017 (the "<u>Effective Date</u>"), by and between CHEVRON U.S.A. INC. (hereinafter "<u>Assignor</u>") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated the 1st day of August, 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"), less and except certain overriding royalty interests and exclusions; 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, subject to certain overriding royalty interests and less and except certain exclusions.

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, except that Assignor excepts and reserves from this Assignment the following:

A. The Chevron ORRI previously conveyed to Assignor and as described in that certain Memorandum of Assignment of Oil and Gas Lease Interests dated November 6, 2012 by and between Cornell Holdings Incorporated and Chevron U.S.A. Inc., which is recorded at Book 0028, Page 0239 in the Office of the County Clerk of Marshall County, West Virginia, and

B. As to each of the Leases and all oil, gas, and associated hydrocarbons produced, saved and sold thereunder, an overriding royalty interest equal to the difference between 82% and the

> RECEIVED Office of Oil and Gas

AUG 1 4 2018



August 13, 2018

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

RE: Wooford 2HM

Subject: State Route 2 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 State Route 2 in the area reflected on the Woodford 1HM 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,

any tuller

Amy Miller Permit Specialist – Appalachia Region Cell 304-376-0111 Email: amiller@tug-hillop.com

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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	Woodford 2HM
Well Pad Name: W	loodford

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 Eastin	ng: 516,091.26
County:	Marshail	North	ning: 4,406,025.78
District:	Franklin	Public Road Access:	Burch Ridge Road (County Route 26)
Quadrangle:	Powhatan Point 7.5'	Generally used farm nat	me: 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: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
1. NOTICE OF SEISMIC ACTIVITY or INOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
□ 3. NOTICE OF INTENT TO DRILL OF INTER NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION 6 Office of Oil and Gas	RECEIVED
■ 5. PUBLIC NOTICE AUG 14 ²⁰¹⁸	
6. NOTICE OF APPLICATION WV Department of Environmental Protection	ⁿ RECEIVED

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.

Certification of Notice is hereby given:

THEREFORE, I <u>Amy L. Miller</u>, 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.

Well Operator:	Tug Hill Operating, LLC	Address:	380 Southpointe Boulevard, Plaza II, Suite 200
By:	Amy L. Miller		Canonsburg, PA 15317
Its:	Permitting Specialist	Facsimile:	724-338-2030
Telephone:	724-749-8388	Email:	amiller@tug-hillop.com
CI	NOTARIAL SEAL MAUREEN A STEAD Notary Public	Subscribed and swo My Commission E:	prn before me this <u>13</u> day of <u>AVA 2918</u> . <u>A Study</u> Notary Public xpires <u>128/19</u>

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>.

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AUG 1 4 2018

WW-6A (9-13)

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	of:
-----------	-----

\checkmark	PERMIT FOR ANY	CERTIFICAT
	WELL WORK	CONSTRUC

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	RECEIVED
Name: CNX Land Resources, LLC Attn: Casey Saunders	Name: Murray Energy Corporation	_ Office of Oil and Gas
Address: 1000 Consol Energy Drive	Address: 46226 National Park Road W	
Canosnburg, PA 15318 (Well Pad)	St. Clairsville, OH 43950 (*See attached list)	_ AUG 14 2018
Name: Woodland Hill Church of God c/o Margirene W. Keefe, Trustee	COAL OPERATOR	
Address: 8669 Kossuth Amanda Road	Name:	WV Department of Environmental Protection
Spencerville, OH 45887 (Access Road)	Address:	Environmental Protection
☑ SURFACE OWNER(s) (Road and/or Other Disturbance)		
Name: Linda E. Hamilton (Access Road) * See attached list	☑ SURFACE OWNER OF WATER WELL	
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 STOP	RAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	_
Name:	Address:	
Address:		_
	*Please attach additional forms if necessary	_

OPERATOR WELL NO, Woodford 2HM 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.

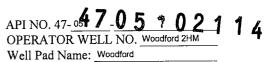
Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source 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.

Office of Oil and Gas

Additional information related to horizontal drilling 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) or by visiting <u>www.dep.wAtfy/dtl4</u> 2018 and-gas/pages/default.aspx. WV Department of Environmental Protection

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing 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)



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 Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

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 this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the 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 57th St. SE Charleston, WV 25304 (304) 926-0450

AUG 1 4 2018

WV Department of Environmental Protection

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) API NO. 47-457 05 9 021 14 OPERATOR WELL NO. Woodford 2HM 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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AUG 1 4 2018

WW-6A (8-13) API NO. 47-051 7 0 3 7 0 2 1 OPERATOR WELL NO. Woodford 2HM Well Pad Name: Woodford

Notice is hereby given by:

Telephone: 724-749-8388		
Email: amiller@tug-hillop.com	any tule	

Address: 380 Southpointe Boulevard, Plaza II, Suite 200 Canonsburg, 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>.

	NOTARIAL SEAL	
	MAUREEN A STEA	D
	Notary Public	
CECI	L TWP, WASHINGTON	I COUNTY
	mmission Expires Ja	

day of <u>AUQ</u>. <u>2018</u>. ______Notary Public Subscribed and sworn before me this ____ My Commission Expires

RECEIVED Office of Oil and Gas

AUG 1 4 2018

4705 * 02114

WW-6A Additional Parties to Notice Information

Well: Woodford 2HM

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	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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AUG 1 4 2018

4705 + 02114

WW-6A

Supplement Pg. 1A

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

WATER WELL REPORT

Well:WOODFORD 2HMDistrict: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		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	N.	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	1	Topo Spot # 8 TM 7A Par. 1 Lucille Meyers 139 Graysville Rd. Proctor, WV 26055	Topo Spot # 9 TM 7B Par. 25 Cindy D. Aliff 304-771-1088 34 Steelton St. New Martinsville, WV 26155
Topo Spot # 10 TM 7B Par. 26 Cindy D. Aliff 304-771-1088 34 Steelton St. New Martinsville, WV 26155	(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 RECEIVED Office of Oil an

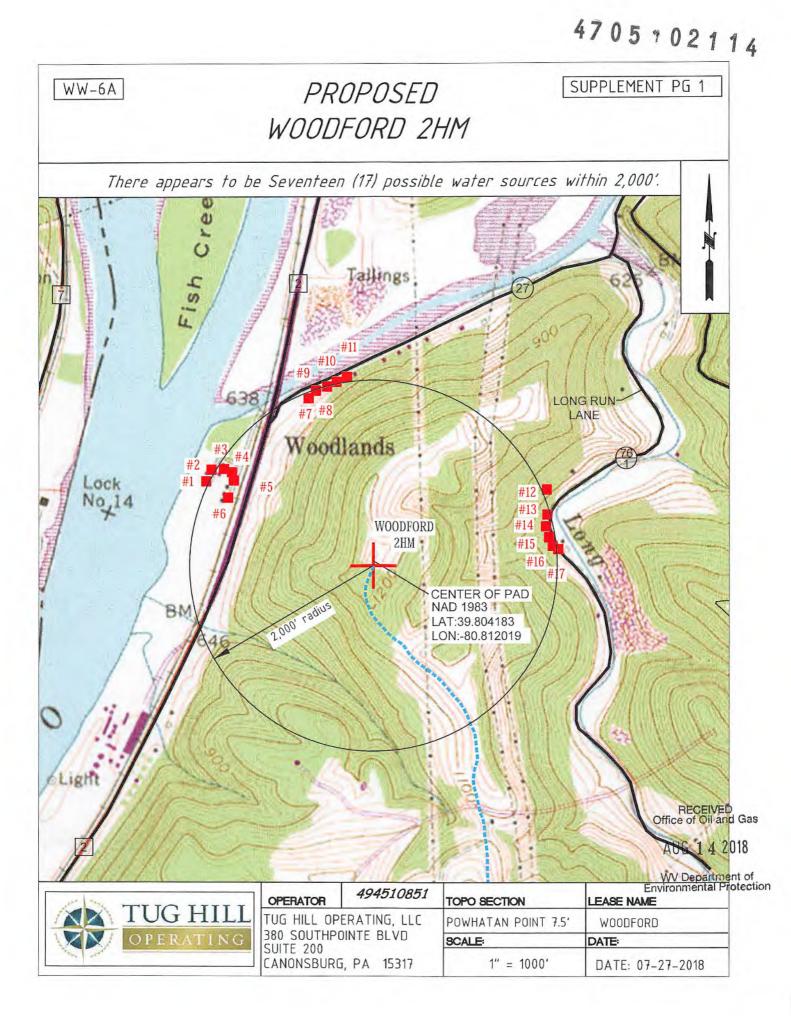
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Topo Spot # 13 TM 7 Par. 44 Crystal B. Darrah 304-280-6747 733 Long Run Lane Proctor, WV 26055	21	Topo Spot # 14 TM 7 Par. 44 Crystal B. Darrah 304-280-6747 733 Long Run Lane Proctor, WV 26055	ί	Topo Spot # 15 TM 7 Par. 42.2 Steven & Rhonda Lloyd 304-843-0171 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	1	Topo Spot # 17 TM 7 Par. 42 Tracy M. Kesterson 304-830-7356 773 Long Run Ln Proctor, WV	>	

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entry

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to

Date of Planned Entry: 6/18/2018 Date of Notice: 6/11/2018

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL
SERVICE

REGISTERED MAIL

METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that 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, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

■ SURFACE OWNER(s)

Name: CNX Land Resources, LLC Altn: Casey Saunders Address: 1000 Consol Energy Drive Canosnburg, PA 15318 (Well Pad) Name: Woodland Hill Church of God c/o Margirene W. Keefe, Trustee Address: 8669 Kossuth Amanda Road Spencerville, OH 45887 (Access Road) Name: Linda E. Hamilton (Access Road) Address: 651 Farmall Lane Proctor, WV 26055 (*See attached list)

COAL OWNER OR LESSEE

Name: M	urray Energy Corporation
Address:	46226 National Park Road W
St. Clairsville	a, OH 43950 (*See attached list)

MINERAL OWNER(s)

Address:	5260	Dupo	nt Road	
Parkersburg	wv	26101	(*See attached list)	

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	DECEIVED	
Email: amiller@tug-hillop.com	Facsimile:	724-338-2030	REGEIVED Office of Oil and Gas		
Oil and Gas I	Privacy Notice:			AUG 1 4 2018	

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 department persterior 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-6A3 Additional Parties to Notice Information

Well: Woodford 2HM

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	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

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

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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:08/10/2018Date Permit Application Filed:08/13/2018

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

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:	tate: West Virginia		Easting:	516,091.26	
County: Marshall UTMIN		UTM NAD 83	Northing:	4,406,025.78	
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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.cm	Facsimile:	: 724-749-8388	

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>.

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

WW-6A5 Additional Parties to Notice Information

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

	Course Mitchard and David M. Minland
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	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
Linda E. Hamilton	
651 Farmall Lane	
Proctor, WV 26055	

Surface Owners (Access Road)

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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 57th Street, SE Charleston, WV 25304

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

Woodford 2HM

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,

Dary K. Clayton

Garý K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

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

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WV Department of Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER



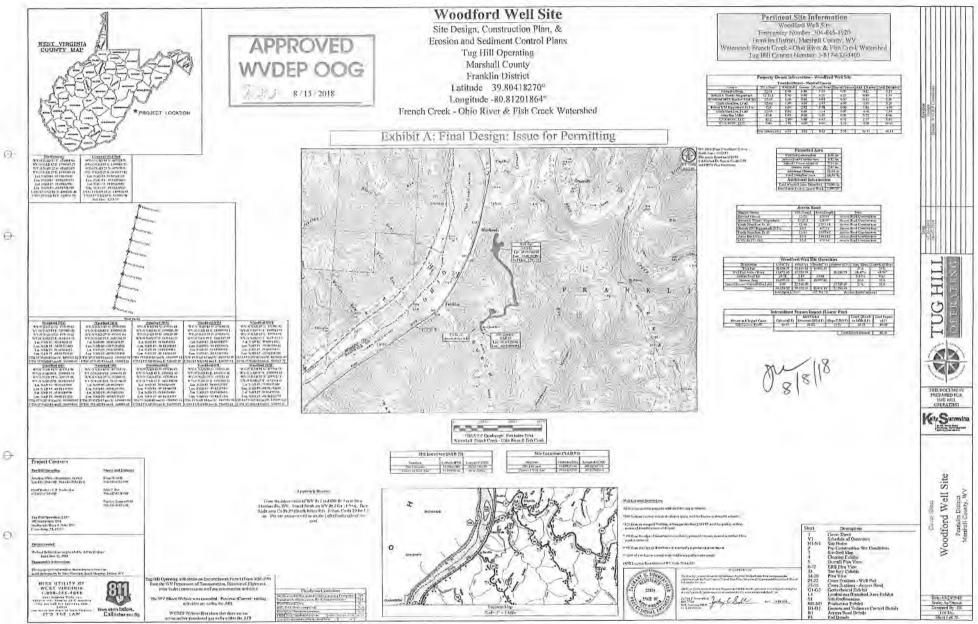
PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Woodford 2HM			
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

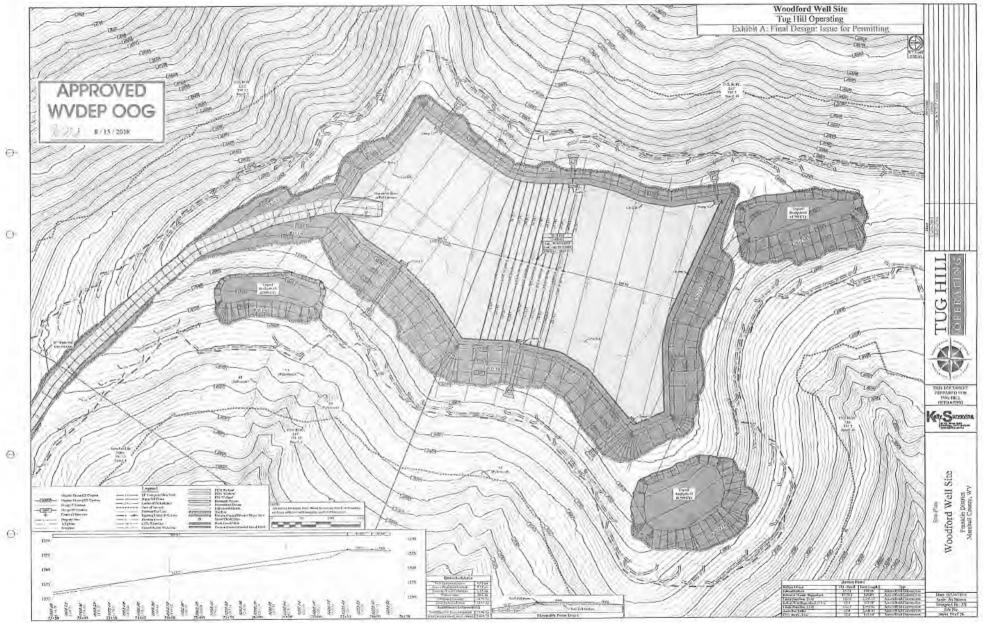
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