

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

09/07/2018

Wednesday, September 5, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BOULEVARD, PLAZA II SUITE 200 CANNONSBURG, PA 15317

Re: Permit approval for BRYAN N-13HU 47-051-02030-00-00

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 Operator's Well Number: BRYAN N-13HU Farm Name: CNX LAND RESOURCES INC. U.S. WELL NUMBER: 47-051-02030-00-00 Horizontal 6A New Drill Date Issued: 9/5/2018

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well 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.

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PERMIT CONDITIONS

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.



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

July 26, 2018

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02030

COMPANY: Tug Hill Operating, LLC

FARM: Bryan N-13HU

COUNTY: <u>Marshall</u> DISTRICT: <u>Franklin</u>

QUAD: Powhatan Point

The deep well review of the application for the above company is <u>Approved to drill to the Trenton for</u> <u>Point Pleasant completion</u>. <u>Pooling Docket No. 265-254</u>

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? None
- Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: *yes, Docket 265-254 Exception Location Hearing, 47-051-02029 and 47-051-02031; and CORLEY N-9HU 47-051-01983 and CORLEY N-10HU 47-051-01998
- 4. Provided a plat showing that the proposed location is a distance of <u>400+</u> feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Lose use

Susan Rose Administrator

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4705 1020 3 () API NO. 47-051 OPERATOR WELL NO. Bryan N-13HU

WW-6B (04/15)

OPERATOR WELL NO. Bryan N-13HU Well Pad Name: Bryan

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
· · · ·		Operator ID	County	District	Quadrangle
2) Operator's Well Num	iber: Bryan N-13HU	Well Pad	Name: Bryan	۰ 	
3) Farm Name/Surface	Owner: <u>CNX Land Resource</u>	ces, Inc. Public Road	Access: Rin	es Ridge F	۶d
4) Elevation, current gro	ound: <u>1254'</u> E	Elevation, proposed p	ost-constructi	on: <u>1254'</u>	
5) Well Type (a) Gas	X Oil	Unde	rground Stora	ge	
Other	······	. <u></u>			
(b)lf Ga		Deep	X		
	Horizontal X		Ji	4/6/18	
	nation(s), Depth(s), Anti et formation at a depth of 11,1		nd Expected P	ressure(s):	e of approx. 9000 psi
8) Proposed Total Verti	cal Depth: 11,393'				
9) Formation at Total V	ertical Depth: Trenton				
10) Proposed Total Mea	sured Depth: 24,342'				
11) Proposed Horizonta	Leg Length: 12,319				
12) Approximate Fresh	Water Strata Depths:	803'	· .		
13) Method to Determin14) Approximate Saltway	-	Offset well reports or not	iceable flow at the	e flowiine or w	then need to start soaping
15) Approximate Coal S	eam Depths: Sewickly	Coal - 701' and Pit	tsburgh Coal	- 796'	•
16) Approximate Depth	to Possible Void (coal m	nine, karst, other): N	lone anticipa	ted	
17) Does Proposed well	location contain coal sea acent to an active mine?	ams	No		
(a) If Yes, provide Mir	e Info: Name:				· .
	Depth:		•		
	Seam:				
	Owner:				
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4705102030

API NO. 47- 051 -

OPERATOR WELL NO. Bryan N-13HU Well Pad Name: Bryan

(04/15)

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size</u> (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> (<u>Cu. Ft.)/CTS</u>
Conductor	30"	NEW	BW	BW	. 100'	100'	216FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	953'	953'	1,525ft^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2,800'	2,800'	1,978ft^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,317'	10,317'	3,370ft^3(CTS)
Production	5 1/2"	NEW	HCP110	23#	24,342'	24,342'	5,752ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#	· · · · · · · · · · · · · · · · · · ·	11,731'	
Liners				•			

JN4/6/18

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TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	20"	26"	.5	2,410	1,928	SEE #24	1.2
Coal	13 3/8"	17 1/2"	.38	2,740	2,192	SEE#24	1.2
Intermediate	9 5/8"	12 1/4"	.472	10,730	6,968	SEE#24	1.99
Production	5 1/2"	8 1/2"	.415	13,580	10,864	SEE#24	1.18
Tubing	2 7/8"			14,530	11,624		
Liners			•				

PACKERS

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

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WW-6B

WW-6B (10/14) API NO. 47-051 - 02030 OPERATOR WELL NO. Bryan N-13HU Well Pad Name: Bryan

JN4/6/18

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

Drill through the Point Pleasant and TD Pilot Hole 150' into the Trenton. Log vertical section and run a solid cement plug back to proposed KOP. Drill curve and lateral per proposed well plan, run and cement production casing. Perform CBL from 60 deg to surface, make cleanout run, and stimulate.

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

Well to be completed with approximately 30,797,500 lb proppant and 476,152 bbl of water. Max rate = 80 bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.14

22) Area to be disturbed for well pad only, less access road (acres): 5.98

23) Describe centralizer placement for each casing string:

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

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

*See Attachment

25) Proposed borehole conditioning procedures:

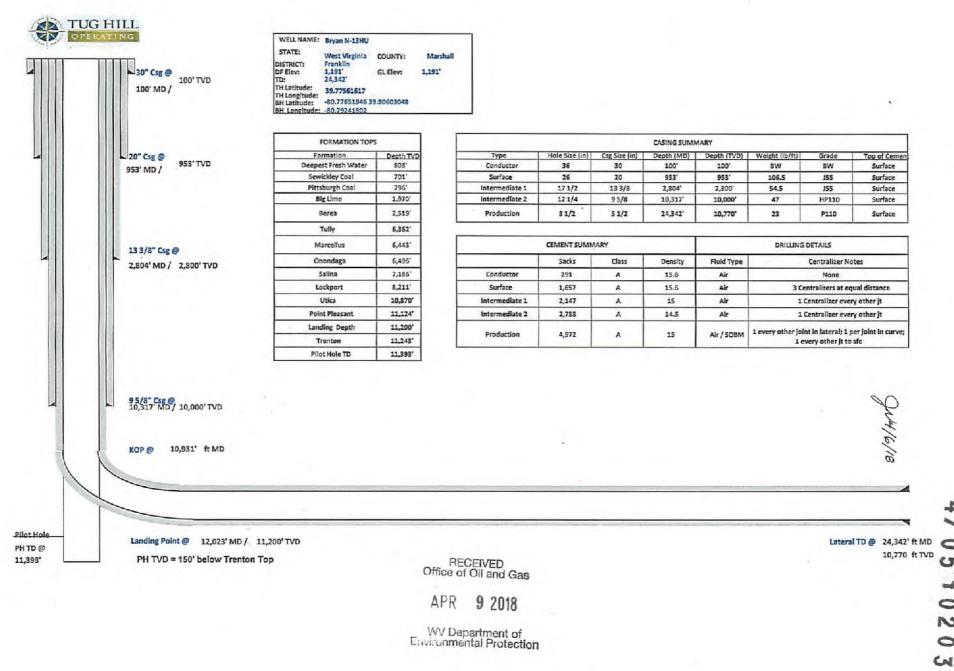
Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH

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*Note: Attach additional sheets as needed.

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Tug Hill Operating, LLC Casing and Cement Program

Bryan N-13HU

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	100'	CTS
Surface	20"	J55	26"	953'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,804'	CTS
Intermediate 2	9 5/8"	HP110	12 1/4"	10,317'	CTS
Production	5 1/2"	P110	8 1/2"	24,342'	CTS

Cement

Surface:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water - Surface Cement mixed at 15.6 ppg, Y=1.2
Intermediate 1:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water - Intermediate Cement mixed at 15.6 ppg, Y=1.2
Intermediate 2:	Premium NE-1 + 1% bwcc CaC12 + 46.5% Fresh Water - Intermediate Cement mixed at 15.6 ppg, Y=1.99
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 = 1.18

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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 (12/19/2016) 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

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Permit well - Bryan N-13HU

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
4705101340	Tug Hill Operating (formerly operated by Chevron and AB Resources)	6450' TVD 10601' MD	Marcellus	Unknown	Yes, existing Marcellus producer. Proper casing and cement should prevent migration of fluids from new wellbore to existing wellbore	Producing Marcellus horizontal well. A field survey was conducted to locate this well and it was found producing at the location shown o the well plat.
	Tug Hill Operating	6596' TVD, planned	None	None	No, Permit submitted Marcellus well	Permit submitted Marcellus well. Not yet drilled
	Tug Hill Operating	6596' TVD, planned	None	None	No, Permit submitted Marcellus well	Permit submitted Marcellus well. Not yet drilled
4705101979	Tug Hill Operating	6596' TVD, planned	None	None	No, Permit submitted Marcellus well	Permit submitted Marcellus well. Not yet drilled
	Tug Hill Operating	6596' TVD, planned	None	None	No, Permit submitted Marcellus well	Permit submitted Marcellus well. Not yet drilled

"Pipeline"	Sher Parrit # 01340	Select catatypes: ☐{Check Alp ⊠Location II Production II Rupping II DenerConsisten II Stratyrathy II Bangie II RaytStrawtbacker II Logis II Strate Logi	Control Core Line without Termin Annual Contro		
We Designed & Boonsmin	Survey	Weil: 4	County = 61 Permit = 01340		Report Time: Frd
ocation Information. AFI COUNTY PEA 1708101840 Marshall 184	RMIT TAX_DISTRICT QUAD_75 DUA	0-15 LAT_DD LON_DD UTME UTMN upper 89.773520 -80.778111 519130.7 44025TE.0			
Sottom Hole Location in API EF FLAG 1732101340 1 As Press	NORMANICAL UTION LON CO LAT I	3 .			
API CMP DT SUF	THA STATUS SURFACE OWNER	WELL-HUM CO_HUM LEASE LEASE_HUM MILERA Int IN Briten Menter	ALLOWN OPERATOR_AT_COMPLETION PR	OP_VD PROP_TROT_PM T/W_ENT_PR 6100 Network In	
Completion Information API CMP_0T_SPU A701101340_612010_201 Comment_4/12/2010_Ki	D DT ELEV DATUM FIELD DEE 70010 1217 Kaly Bushing Unramlat Visi	PEST FM DEEPEST FMT INITIAL CLASS FINAL CLAS	IS TYPE RIG GMP_MTHD TVD TMD Well Circled Ges Rotary Frequent 6460 (000)	NEW FTG D. BEY G. ATT D. BEF O. ATT NOL. B	EF WOLLAFT PURCH T
Pay/Show/Water Inform API CMP OT ACI 705101340 41/2010 Was 1/20101340 41/2010 Was 1/20101340 41/2010 Pay	TWEY PRODUCT SECTION DEPTH TOP	FM_TOP CEPTH_BOT FM_BOT 1400 Pennsylvenet System 1716 Massappin Verselus Sh 1015 Verselus Sh	g_aft g_bbs g_aft mater_gaty		
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Production NGL Informe API PRODUCING 4705151240 Chevran Apart 4705101240 Chevran Apart 1705101240 Chevran Apart 4705101340 Chevran Apart	CPERATOR PHD_YEAR ANN_NOL JAN Seche LLC 2013 3 8 Reprint LLC 2014 3 5	Ators may have reported NGL under Di FEE MAR APR MAY JUN JUL AUG SEP OCT NOV C 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9	00000 00000		-
Production Water Inform API PRODUCING 4720101040 Chevron Appel	NISION: (Volumes in Gallons) CPERATOR PRO_VEAR ANN_WIR JAN Inchis.LLD 2010 0	FEE MAR APR MAY JUN JUL ADD SEP OCT HOW I	6CM		
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Alfreine (E-Log) Informs AP1 LOG TOP LO 4725191940 80	BOA DEEPEST FUL LOGS AVAL SO	AN DIGITIZED GR_TOP GR_BOT D_TOP B_BOT N_TO 40 5516 2540 8600 254 d and vanisal dappt included.	P N. BOT LTOP LEGT T_TOP T_BOT S_TOP I		KOP LOGNO ELEV_KB

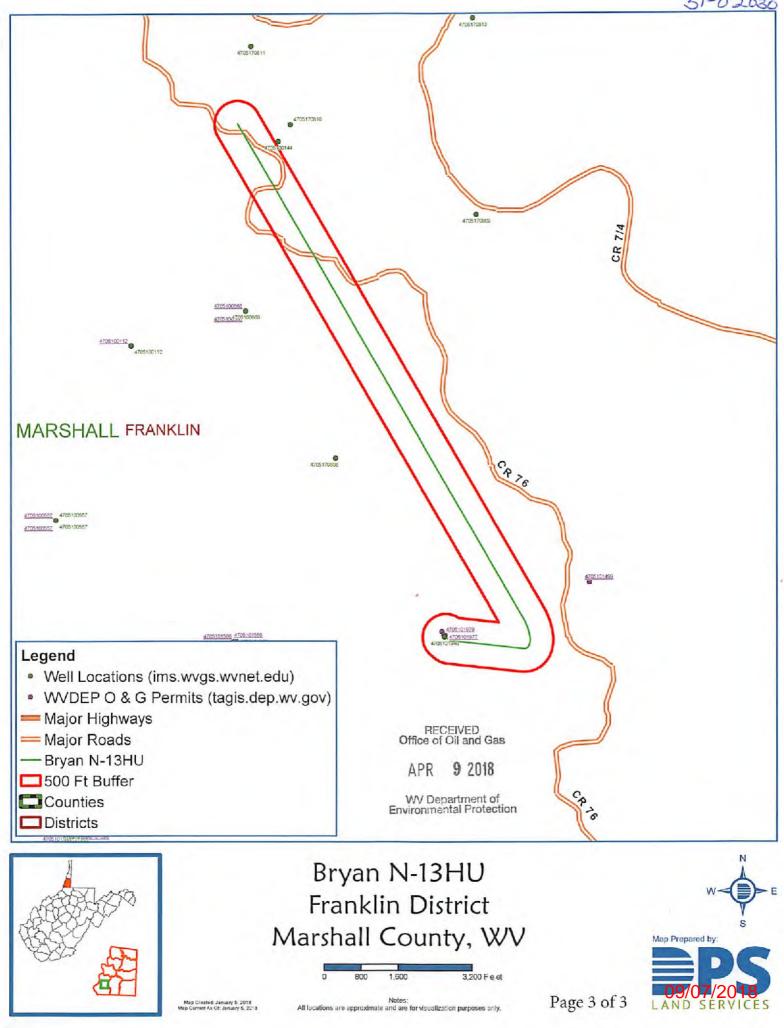
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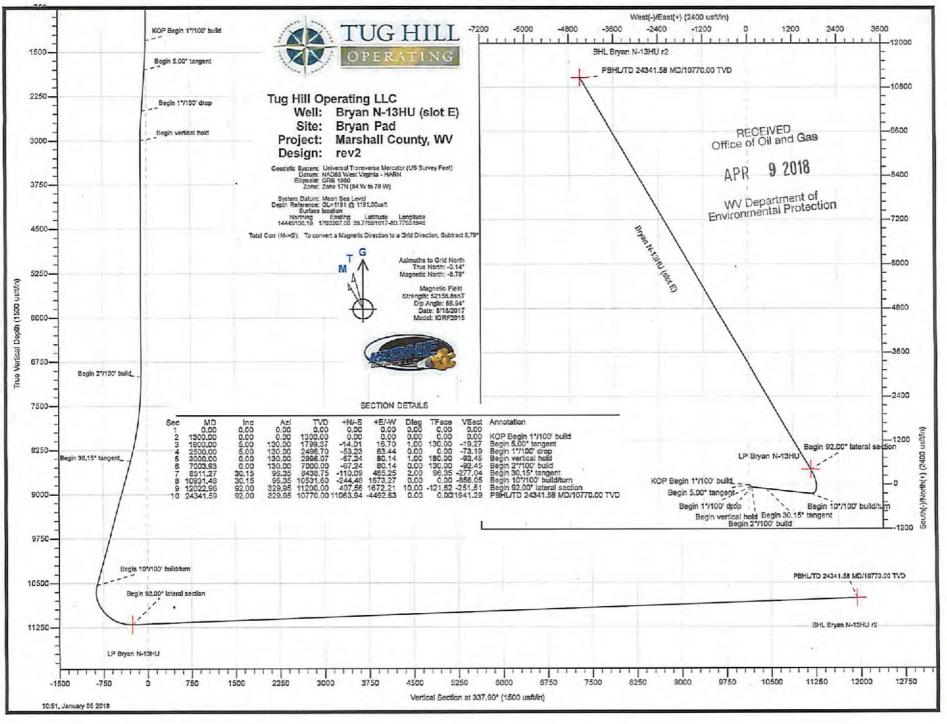
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Planning Report - Geographic

Database: Company: Project: Sito: Well: Wellbore: Design:	DB_Jul2216c Tug Hill Oper Marshall Cou Bryan Pad Bryan N-13H Original Hole rev2	rating LLC unty, West Virgin IU (slot E)	nia	TVD Reference MD Reference North Reference	Local Co-ordinate Reference: Wall Bryan N- TVD Reference: GL=1191 @ 1 MD Reference: GL=1191 @ 1 North Reference: Grid Survey Calculation Method: Minimum Cur			00usft 00usft	
Project	Marshall Cour	nty, West Virgini	a						
Map System: Geo Datum: Map Zone:	Universal Trans NAD83 West Vi Zone 17N (84 V	irginia - HARN	(US Survey Feet	i) System Datum	1:	Me	an Sea Level		
Site	Bryan Pad	Intel Internet							
Site Position: From: Position Uncertainty:	Lat/Long	0.00 usft	Northing: Easting: Slot Radius:	14,445,11 1,703,18	1.57 usft L	.atitude: .ongitude: Grid Converge	ence:		39.77562900 -80.77660992 0.14 °
Well	Bryan N-13HU	(slot E)							
Well Position	+N/-S	0.00 usft	Northing:	100	445,106.19 u 703,207.00 u		tude: gitude:		39.77561617 -80.77651946
Position Uncertainty	+E/-W	0.00 usft 0.00 usft	Easting: Wellhead Ele		103,207.00 0		und Level:		1,191.00 usft
Position Uncertainty Wellbore	+E/-W Original Hole	0.00 usft			103,201.000				1,191.00 usft
Position Uncertainty Wellbore Magnetics		0,00 usft					und Level:	Field S (n	trength
Wellbore	Original Hole Model Na	0,00 usft	Wellhead El	evation: Declinatio (*)		Grou Dip A	und Level:	(n	trength
Wellbore	Original Hole Model Na	0.00 usft	Wellhead El	evation: Declinatio (*)	n	Grou Dip A	und Level: ngle	(n	trength T)
Wellbore Magnetics	Original Hole Model Na IGI	0.00 usft	Wellhead El	evation: Declinatio (*)	n -8.64	Grou Dip A	und Level: ngle) 66,94	(n	trength T)
Wellbore Magnetics Design Audit Notes:	Original Hole Model Na IGI	0,00 usft ume RF2015 Depth Fr (u	Wellhead Eld Sample Date 8/18/2017 Phase: rom (TVD) isft)	evation: Declinatio (*) PLAN +N/-S (usft)	n -8.64 Tie (+E/- (usi	Grou Dip A (*. On Depth: W ft)	und Level: ngle) 66.94 0 Direc (¹	(n 52,14 .00 :tion)	trength T)
Wellbore Magnetics Design Audit Notes: Version:	Original Hole Model Na IGI	0,00 usft ime RF2015 Depth Fr (u 0	Wellhead Ele Sample Date 8/18/2017 Phase: rom (TVD) (sft) .00	evation: Declinatio (*) PLAN +N/-S	n -8.64 Tie C +E/-	Grou Dip A (*. On Depth: W ft)	und Level: ngle) 66.94 0 Direc	(n 52,14 .00 :tion)	trength T)
Wellbore Magnetics Design Audit Notes: Version:	Original Hole Model Na IGI rev2	0,00 usft ume RF2015 Depth Fr (u	Wellhead Eld Sample Date 8/18/2017 Phase: rom (TVD) isft) .00	evation: Declinatio (*) PLAN +N/-S (usft)	n -8.64 Tie (+E/- (usi	Grou Dip A (*. On Depth: W ft)	und Level: ngle) 66.94 0 Direc (¹	(n 52,14 .00 :tion)	trength T)

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COMPASS 5000.14 Build 85





Planning Report - Geographic

Local Co-ordinate Reference: Well Bryan N-13HU (slot E) DB_Jul2216dt_v14 Database: GL=1191 @ 1191.00usft Company: Tug Hill Operating LLC TVD Reference: Marshall County, West Virginia GL=1191 @ 1191.00usft Project: MD Reference: Site: Bryan Pad North Reference: Grid Well: Bryan N-13HU (slot E) Survey Calculation Method: Minimum Curvature Wellbore: Original Hole rev2 Design:

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (*/100usft)	Turn Rate (*/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	5.00	130.00	1,799.37	-14.01	16.70	1.00	1.00	0.00	130.00	
2,500.00	5.00	130.00	2,498.70	-53.23	63.44	0.00	0.00	0.00	0.00	
3,000.00	0.00	130,00	2,998.07	-67.24	80.14	1.00	-1.00	0.00	180.00	
7,003.93	0.00	130.00	7,000.00	-67.24	80.14	0.00	0.00	0.00	130.00	
8,511.27	30.15	96.35	8,438.75	-110.09	465.25	2.00	2.00	-2.23	96,35	
10,931.48	30.15	96.35	10,531.60	-244.48	1,673.27	0.00	0.00	0.00	0.00	
12,022.96	92.00	329.95	11,200.00	407.56	1,672.21	10.00	5.67	-11.58	-121.62	LP Bryan N-13HU
24,341.59	92.00	329.95	10,770.00	11.063.94	-4,492.63	0.00	0.00	0.00	0.00	BHL Bryan N-13HU r

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COMPASS 5000.14 Build 85



APR 9 2018



Planning Report - Geographic

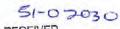
WV Department of Environmental Protection

DB_Jul2216dt_v14 Local Co-ordinate Reference: Well Bryan N-13HU (slot E) Database: Company: Tug Hill Operating LLC TVD Reference: GL=1191 @ 1191.00usft Marshall County, West Virginia Project: MD Reference: GL=1191 @ 1191.00usft Bryan Pad Site: North Reference: Grid Bryan N-13HU (slot E) Minimum Curvature Well: Survey Calculation Method: Wellbore: **Original Hole** Design: rev2

Planned Survey

easured Depth (usft)	Inclination (*)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.77651
100.00	0.00	0.00	100.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
200,00	0.00	0.00	200.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
300.00	0.00	0.00	300.00	0.00	0.00	14,445,106.19	1,703,207.00	39,77561617	-80.7765
400.00	0.00	0.00	400.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
500.00	0.00	0,00	500.00	0,00	0.00	14,445,106,19	1,703,207.00	39.77561617	-80.7765
600.00	0.00	0.00	600.00	0.00	0.00	14,445,106.19	1,703,207.00	39,77561617	-80.7765
700.00	0.00	0.00	700.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
800.00	0.00	0.00	800.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
900.00	0.00	0.00	900,00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,445,106,19	1,703,207.00	39.77561617	-80.7765
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
1,200.00	0.00	0.00	1,200.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,445,106.19	1,703,207.00	39.77561617	-80.7765
	in 1°/100' bui							A PROPERTY OF	
1,400.00	1.00	130.00	1,399.99	-0.56	0.67	14,445,105.63	1,703,207.67	39.77561463	-80.7765
1,500.00	2.00	130.00	1,499.96	-2.24	2.67	14,445,103.95	1,703,209.68	39,77560999	-80.7765
1,600.00	3.00	130.00	1,599.86	-5.05	6.02	14,445,101.14	1,703,213.02	39.77560227	-80.7764
1,700.00	4.00	130.00	1,699.68	-8.97	10.69	14,445,097.22	1,703,217.69	39.77559146	-80,7764
1,800.00	5.00	130.00	1,799.37	-14.01	16.70	14,445,092.17	1,703,223.70	39.77557757	-80,7764
Begin 5.0	0° tangent								
1,900.00	5.00	130.00	1,898.99	-19.62	23.38	14,445,086.57	1,703,230.38	39.77556214	-80.7764
2,000.00	5.00	130.00	1,998.60	-25.22	30.05	14,445,080.97	1,703,237.06	39,77554671	-80,7764
2,100.00	5.00	130.00	2,098.22	-30.82	36.73	14,445,075.37	1,703,243.73	39.77553128	-80.7763
2,200.00	5.00	130.00	2,197.84	-36.42	43.41	14,445,069.77	1,703,250.41	39,77551584	-80.7763
2,300.00	5.00	130.00	2,297.46	-42.03	50.08	14,445,064.16	1,703,257.09	39.77550041	-80.7763
2,400.00	5.00	130.00	2,397.08	-47.63	56.76	14,445,058,56	1,703,263,76	39,77548498	-80.7763
2,500.00	5.00	130.00	2,496.70	-53,23	63.44	14,445,052.96	1,703,270.44	39.77546955	-80,7762
Begin 1º	100' drop								
2,600.00	4.00	130.00	2,596.39	-58,27	69,45	14,445,047.92	1,703,276,45	39.77545566	-80.7762
2,700.00	3.00	130.00	2,696.20	-62.20	74.12	14,445,043.99	1,703,281.13	39,77544485	-80.7762
2,800.00	2.00	130.00	2,796.11	-65.00	77.47	14,445,041.19	1,703,284.47	39.77543713	-80.7762
2,900.00	1.00	130.00	2,896.07	-66,68	79.47	14,445,039.51	1,703,286.47	39.77543249	-80,7762
3,000.00	0.00	130.00	2,996,07	-67.24	80.14	14,445,038,94	1,703,287.14	39,77543095	-80.7762
Begin ve	rtical hold								
3,100.00	0.00	0.00	3,096.07	-67.24	80.14	14,445,038.94	1,703,287.14	39,77543095	-80,7762
3,200.00	0.00	130.00	3,196.07	-67.24	80.14	14,445,038.94	1,703,287.14	39,77543095	-80.7762
3,300.00	0,00	0.00	3,296.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
3,400.00	0.00	0.00	3,396.07	-67.24	80,14	14,445,038,94	1,703,287,14	39,77543095	-80,7762
3,500.00	0,00	0.00	3,496.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
3,600.00	0.00	130.00	3,596.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80,7762
3,700.00	0.00	0.00	3,696.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
3,800.00	0.00	0.00	3,796.07	-67.24	80.14	14,445,038.94	1,703,287.14	39,77543095	-80,7762
3,900.00	0.00	130.00	3,896.07	-67,24	80.14	14,445,038,94	1,703,287.14	39.77543095	-80,7762
4,000.00	0.00	130.00	3,996.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80,7762
4,100.00	0.00	0.00	4,096.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
4,200.00	0.00	130.00	4,196.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
4,300.00	0.00	0.00	4,296.07	-67,24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.77623
4,400.00	0.00	130.00	4,396.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80,7762
4,500.00	0.00	0.00	4,496.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
4,600.00	0.00	130.00	4,596.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
4,700.00	0.00	0.00	4,696.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762
4,800.00	0.00	130.00	4,796.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80,7762
4,900.00	0.00	130.00	4,896.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.77623

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DB_Jul2216dt_v14 Tug Hill Operating LLC

Bryan N-13HU (slot E)

Bryan Pad

Original Hole

rev2

Marshall County, West Virginia

Planning Report - Geographic

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

Well Bryan N-13HU (slot E) GL=1191 @ 1191.00usft GL=1191 @ 1191.00usft Grid Minimum Curvature

Planned Survey

Database:

Company:

Wellbore:

Design:

Project:

Site:

Well:

leasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,000.00	0.00	0.00	4,996.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80,7762348
5,100.00	0.00	0.00	5,096.07	-67.24	80.14	14,445,038.94	1,703,287.14	39,77543095	-80.7762348
5,200.00	0.00	130.00	5,196.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.7762344
5,300.00	0.00	0,00	5,296.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
5,400.00	0.00	0.00	5,396.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
5,500.00	0.00	0.00	5,496.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
5,600.00	0.00	130.00	5,596.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
5,700.00	0.00	0.00	5,696.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
5,800.00	0.00	0.00	5,796.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
5,900.00	0.00	130.00	5,896.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
6,000.00	0.00	130.00	5,996.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
6,100.00	0.00	0.00	6,096.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
6,200.00	0.00	130.00	6,196.07	-67.24	80.14	14,445,038,94	1,703,287.14	39.77543095	-80.776234
6,300.00	0.00	0.00	6,296.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
6,400.00	0.00	130.00	6,396.07	-67.24	80.14	14,445,038.94	1,703,287.14	39,77543095	-80.776234
6,500,00	0.00	0.00	6,496.07	-67.24	80.14	14,445,038,94	1,703,287.14	39.77543095	-80.776234
6,600,00	0.00	130.00	6,596.07	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.77623
6,700.00	0.00	0.00	6,696.07	-67.24	80.14	14,445,038.94	1,703,287,14	39.77543095	-80.776234
6,800,00		130.00	6,796.07	-67.24	80,14	14,445,038.94	1,703,287.14	39,77543095	-80.776234
6,900.00		130.00	6.896.07	-67.24	80.14	14,445,038,94	1,703,287.14	39.77543095	-80.776234
7,000.00		0.00	6,996.07	-67.24	80,14	14,445,038.94	1,703,287.14	39,77543095	-80.776234
7,003.93		0.00	7,000.00	-67.24	80.14	14,445,038.94	1,703,287.14	39.77543095	-80.776234
a the second second		0.00	7,000,00	-47.24		1 Il I Iolocoro I			
	Moo' build		7.000.05	-67.42	81.74	14,445,038.77	1,703,288.74	39,77543045	-80.776228
7,100.00		96.35	7,096.05		86.81	14,445,038.20	1,703,293,81	39.77542887	-80,77621
7,200.00		96.35	7,195.91	-67.99			1,703,302,33	39.77542620	-80.776180
7,300.00		96.35	7,295.54	-68.94	95.33	14,445,037.25	1,703,314.31	39.77542246	-80.776138
7,400.00		96,35	7,394.81	-70.27	107.31	14,445,035,92	Construction of the second second second	39.77541765	-80.776083
7,500.00		96.35	7,493.59	-71.98	122.72	14,445,034.21	1,703,329.72	39.77541177	-80.776016
7,600.00		96.35	7,591.78	-74.08	141.55	14,445,032.11	1,703,348.55	39.77540482	-80.775937
7,700.00		96.35	7,689.24	-76.55	163.77	14,445,029.64	1,703,370.77		-80.775840
7,800.00		96.35	7,785.86	-79.40	189,36	14,445,026.79	1,703,396.36	39.77539683	-80.77574
7,900.00		96.35	7,881.53	-82.61	218.29	14,445,023.58	1,703,425.29	39.77538779	-80.775628
8,000.00		96.35	7,976.12	-86.20	250.51	14,445,019.99	1,703,457.52	39.77537772	
8,100.00		96.35	8,069.52	-90.15	286.00	14,445,016.04	1,703,493.00	39.77536664	-80.77550
8,200.00		96.35	8,161.62	-94.45	324.71	14,445,011.74	1,703,531.71	39.77535455	-80.77536
8,300.00		96,35	8,252.31	-99.11	366.58	14,445,007.08	1,703,573,59	39.77534146	-80,77521
8,400.00	27.92	96.35	8,341.46	-104.12	411.58	14,445,002.07	1,703,618.58	39,77532740	-80.77505
8,500.00		96.35	8,428.99	-109.47	459.64	14,444,996,72	1,703,666,65	39,77531239	-80,774884
8,511.27	30,15	96.35	8,438.74	-110.09	465.25	14,444,996.10	1,703,672.25	39.77531064	-80.774864
Begin 3	0.15° tangent					- Includes			
8,600.00	30.15	96.35	8,515.47	-115.02	509.54	14,444,991.17	1,703,716.54	39.77529680	-80.774706
8,700.00	30.15	96.35	8,601.95	-120.57	559.45	14,444,985.62	1,703,766.45	39.77528120	-80.77452
8,800.00	30,15	96.35	8,688.42	-126.12	609.37	14,444,980.07	1,703,816,37	39,77526561	-80.77435
8,900.00	30.15	96.35	8,774.90	-131.68	659.28	14,444,974.51	1,703,866.28	39.77525001	-80.77417
9,000.00	30,15	86,35	8,861.37	-137.23	709.19	14,444,968.96	1,703,916.20	39.77523442	-80.77399
9,100.00		96.35	8,947.84	-142.78	759.11	14,444,963.41	1,703,966.11	39,77521882	-80.77381
9,200.00		96.35	9,034.32	-148,33	809.02	14,444,957.86	1,704,016.02	39.77520323	-80.77364
9,300.00		96,35	9,120.79	-153.89	858.93	14,444,952.30	1,704,065.94	39.77518763	-80.77346
9,400.00		96.35	9,207.27	-159.44	908,85	14,444,946.75	1,704,115.85	39.77517203	-80.77328
9,500.00		96.35	9,293.74	-164.99	958.76	14,444,941.20	1,704,165.76	39.77515643	-80.77310
9,600.00		96.35	9,380.21	-170.55	1,008.68	14,444,935.64	1,704,215.68	39.77514084	-80.77293
9,700.00		96.35	9,466.69	-176.10	1,058.59	14,444,930.09	1,704,265.59	39.77512524	-80.77275
9,800.00		96.35	9,553.16	-181.65	1,108,50	14,444,924.54	1,704,315.51	39.77510964	-80.77257
9,900.00		96.35	9,639.64	-187.20	1,158.42	14,444,918.98	1,704,365.42	39.77509404	-80.77239

COMPASS 5000.14 Build 85

51-02030

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WV Department of Environmental Protection

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TUG HILL

DB_Jul2216dt_v14 Tug Hill Operating LLC

Bryan N-13HU (slot E)

Bryan Pad

Original Hole

rev2

Marshall County, West Virginia

Database: Company:

Project:

Wellbore: Design:

Site:

Well:

Planning Report - Geographic

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

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,000.00	30,15	96.35	9,726.11	-192.76	1,208.33	14,444,913.43	1,704,415.33	39,77507844	-80.772220
10,100.00	30.15	96.35	9,812.59	-198.31	1,258.24	14,444,907.88	1,704,465.25	39.77506285	-80.772043
10,200.00	30.15	96.35	9,899.06	-203,86	1,308.16	14,444,902.33	1,704,515.16	39.77504725	-80.771865
10,300.00	30.15	96,35	9,985.53	-209.42	1,358.07	14,444,896.77	1,704,565.07	39.77503165	-80.771687
10,400.00	30.15	96,35	10,072.01	-214.97	1,407.99	14,444,891.22	1,704,614.99	39.77501605	-80.77151
10,500.00	30.15	96.35	10,158,48	-220.52	1,457.90	14,444,885.67	1,704,664.90	39.77500045	-80.77133
10,600.00	30.15	96,35	10,244.96	-226.08	1,507.81	14,444,880.11	1,704,714.82	39.77498485	-80.77115
10,700.00	30.15	96,35	10,331.43	-231.63	1,557.73	14,444,874.56	1,704,764.73	39,77496925	-80.77097
10,800.00	30.15	96.35	10,417.90	-237.18	1,607.64	14,444,869.01	1,704,814.64	39.77495365	-80.77079
10,900.00	30.15	96.35	10,504.38	-242.73	1,657.55	14,444,863.45	1,704,864.56	39.77493805	-80.77062
10,931.48	30.15	96.35	10,531.60	-244.48	1,673.27	14,444,861.71	1,704,880.27	39,77493313	-80.77056
Begin 10	"/100' bulld/to	Im							
11,000.00	27.13	83,48	10,591.79	-244.61	1,705.93	14,444,861.58	1,704,912.93	39.77493255	-80.77045
11,100.00	25.32	61.09	10,681.71	-231.65	1,747.40	14,444,874.54	1,704,954.41	39.77496786	-80.77030
11,200.00	27.07	38.66	10,771.66	-203.47	1,780.42	14,444,902.72	1,704,987.42	39.77504500	-80.77018
11,300.00	31.80	20.62	10,858.90	-160.94	1,803.98	14,444,945.25	1,705,010.98	39,77516166	-80.77010
11,400.00	38.42	7.52	10,940.77	-105.33	1,817.36	14,445,000.86	1,705,024.36	39.77531427	-80.77005
11,500.00	46.11	357.97	11,014.80	-38.35	1,820.16	14,445,067.84	1,705,027.16	39.77549820	-80,77004
11,600.00	54.41	350.69	11,078.73	37.98	1,812.28	14,445,144.17	1,705,019.29	39.77570787	-80.77006
11,700.00	63.06	344.81	11,130.62	121.33	1,793.98	14,445,227.52	1,705,000.98	39,77593690	-80.77013
11,800.00	71.92	339,78	11,168.89	209.17	1,765.81	14,445,315,36	1,704,972.81	39.77617834	-80.77023
11,900.00	80.89	335.25	11,192.39	298,83	1,728,62	14,445,405.02	1,704,935.62	39,77642484	-80,77036
12,000.00	89.92	330.93	11,200.39	387.59	1,683.54	14,445,493.78	1,704,890,54	39,77666892	-80,77052
12,022.96	92.00	329.95	11,200.00	407.56	1,672.21	14,445,513.75	1,704,879.22	39,77672383	-80,77056
	.00° lateral se		111-201-02	(alles					
12,100.00	92.00	329,95	11,197.31	474.21	1,633.66	14,445,580.39	1,704,840.66	39.77690713	-80.77070
12,200.00	92.00	329.95	11,193.82	560,71	1,583.61	14,445,666.90	1,704,790.62	39,77714505	-80,77087
12,300,00	92.00	329.95	11,190.33	647.22	1,533.57	14,445,753.41	1,704,740.57	39,77738297	-80.77105
12,400.00	92.00	329.95	11,186.84	733.72	1,483,52	14,445,839.91	1,704,690.53	39,77762089	-80,77123
12,500.00	92.00	329.95	11,183.35	820,23	1,433,48	14,445,926.42	1,704,640.48	39.77785881	-80.77141
	92.00	329.95	11,179.86	906.74	1,383.43	14,446,012.93	1,704,590.44	39.77809674	-80.77158
12,600.00	92.00	329,95	11,176.37	993,24	1,333.39	14,446,099.43	1,704,540.39	39,77833466	-80.77176
12,700.00	92.00	329,95	11,172.88	1,079.75	1,283.34	14,446,185.94	1,704,490.35	39.77857258	-80,77194
12,800.00			11,169.39	1,166.25	1,233.30	14,446,272.44	1,704,440.30	39.77881050	-80.77211
12,900.00	92.00	329,95					1,704,390.26	39.77904842	-80.77228
13,000.00	92.00	329,95	11,165.90	1,252.76	1,183.25	14,446,358.95		39.77928634	-80.77247
13,100.00	92.00	329.95	11,162.40	1,339.27	1,133.21	14,446,445.46	1,704,340.21 1,704,290.17	39.77952425	-80.7726
13,200.00	92.00	329.95	11,158.91	1,425.77	1,083.16	14,446,531.96	1,704,240.12	39.77976217	-80.7728
13,300.00	92.00	329,95	11,155.42	1,512.28	1,033.12	14,446,618.47	the second se	39.78000009	-80.77300
13,400.00	92.00	329.95	11,151.93	1,598.79	983.07	14,446,704.98	1,704,190.08	39.78023801	-80.77318
13,500.00	92.00	329.95	11,148.44	1,685.29	933.03	14,446,791.48	1,704,140.03	39.78047593	-80.77338
13,600.00	92.00	329.95	11,144.95	1,771.80	882.98 832.94	14,446,877.99 14,446,864.49	1,704,089.99 1,704,039.94	39.78071385	-80.77353
13,700.00	92.00	329.95	11,141.46	1,858.30			1,703,989.90	39.78095176	-80,77371
13,800.00	92.00	329,95	11,137.97	1,944.81 2,031.32	782.90 732.85	14,447,051.00	1,703,939.85	39.78118968	-80,7738
13,900.00	92.00	329,95	11,134.48			14,447,137.51	1,703,889.81	39.78142760	-80.77407
14,000.00	92.00	329,95	11,130,99	2,117.82	682.81	14,447,224.01	1,703,839.76	39.78166551	-80.77424
14,100.00	92.00	329,95	11,127.50	2,204.33	632.76	14,447,310.52 14,447,397.02	A CONTRACTOR OF A CONTRACT OF	39.78190343	-80.77442
14,200.00	92.00	329.95	11,124.01	2,290.84	582.72	and the second se	1,703,789.72 1,703,739.67	39.78214135	-80.77460
14,300.00	92.00	329,95	11,120.52	2,377.34	532.67	14,447,483.53	and the second	39.78237926	-80.77477
14,400.00	92.00	329,95	11,117.03	2,463.85	482,63	14,447,570.04	1,703,689.63	39.78261718	-80.77495
14,500.00	92.00	329.95	11,113.54	2,550,35	432.58	14,447,656.54	1,703,639,58		-80.77513
14,600.00	92.00	329.95	11,110.04	2,636.86	382.54	14,447,743.05	1,703,589.54	39.78285509 .	-80.7751
14,700.00	92.00	329.95	11,106.55	2,723.37	332.49	14,447,829.56	1,703,539,49	39.78309301	
14,800.00	92.00	329,95	11,103.06	2,809.87	282.45	14,447,916.06	1,703,489.45	39.78333092	-80.77548

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COMPASS 5000.14 Build 85

51-02030

RECEIVED Office of Oil and Gas





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Bryan Pad

Original Hole rev2

Tug Hill Operating LLC

Bryan N-13HU (slot E)

Marshall County, West Virginia

Planning Report - Geographic

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: WV Department of Environmental Protection. Well Bryan N-13HU (slot E) GL=1191 @ 1191.00usft GL=1191 @ 1191.00usft Grid Minimum Curvature

Wellbore: Design: Planned Survey

Database: Company:

Project:

Site:

Well:

15,000,00 15,100,00 15,200,00 15,300,00 15,400,00 15,500,00 15,600,00	92.00 92.00 92.00 92.00 92.00	329,95 329,95	11,096.08		(usft)	(usft)	(usft)	Latitude	Longitude
15,200.00 15,300.00 15,400.00 15,500.00	92.00 92.00			2,982.89	182,36	14,448,089.07	1,703,389,36	39,78380675	-80.77584
15,300.00 15,400.00 15,500.00	92.00		11,092,59	3,069.39	132.31	14,448,175.58	1,703,339.31	39.78404466	-80.77602
15,400,00 15,500,00		329,95	11,089,10	3,155.90	82.27	14,448,262.09	1,703,289.27	39.78428258	-80.77619
15,400,00 15,500,00	02.00	329.95	11,085.61	3,242.40	32.22	14,448,348.59	1,703,239.22	39.78452049	-80.77637
and the second second	02,00	329,95	11,082.12	3,328.91	-17.82	14,448,435.10	1,703,189.18	39.78475840	-80.77655
and the second second	92.00	329,95	11,078,63	3,415.42	-67.87	14,448,521.61	1,703,139.13	39,78499632	-80.7767:
	92.00	329.95	11,075.14	3,501.92	-117.91	14,448,608.11	1,703,089.09	39.78523423	-80.7769
15,700.00	92.00	329,95	11,071.65	3,588.43	-167.96	14,448,694,62	1,703,039.05	39,78547214	-80.7770
15,800.00	92.00	329,95	11,068.16	3,674.94	-218.00	14,448,781.12	1,702,989.00	39.78571005	-80.7772
15,900.00	92.00	329,95	11,064.67	3,761.44	-268.05	14,448,867.63	1,702,938.96	39.78594796	-80.7774
16,000.00	92.00	329,95	11,061.18	3,847.95	-318.09	14,448,954.14	1,702,888.91	39.78618588	-80.7776
16,100.00	92.00	329.95	11,057.69	3,934.45	-368.14	14,449,040.64	1,702,838.87	39.78642379	-80.7777
16,200.00	92.00	329,95	11,054.19	4,020.96	-418.18	14,449,127.15	1,702,788.82	39,78666170	-80.7779
16,300.00	92.00	329.95	11.050.70	4,107.47	-468.23	14,449,213.66	1,702,738.78	39.78689961	-80.7781
16,400.00	92.00	329,95	11,047,21	4,193,97	-518.27	14,449,300,16	1,702,688.73	39,78713752	-80.7783
16,500.00	92.00	329,95	11,043,72	4,280,48	-568.32	14,449,386.67	1,702,638.69	39.78737543	-80.7785
16,600.00	92.00	329,95	11,040.23	4,366,99	-618.36	14,449,473,17	1,702,588.64	39,78761334	-80.7786
16,700.00	92.00	329.95	11,036.74	4,453,49	-668.41	14,449,559,68	1,702,538.60	39.78785125	-80.7788
16,800.00	92.00	329.95	11,033.25	4,540.00	-718.45	14,449,646.19	1,702,488.55	39,78808916	-80,7790
16,900.00	92.00	329,95	11,029.76	4,626,50	-768.50	14,449,732.69	1,702,438.51	39,78832706	-80.7792
17,000.00	92.00	329,95	11,026.27	4,713,01	-818.54	14,449,819,20	1,702,388.46	39,76856497	-80,7793
17,100.00	92.00	329.95	11,022.78	4,799.52	-868,59	14,449,905,71	1,702,338.42	39,78880288	-80.7795
17,200.00	92.00	329.95	11,019.29	4,886.02	-918.63	14,449,992.21	1,702,288.37	39.78904079	-80.7797
17,300.00	92.00	329.95	11,015.80	4,972.53	-968.68	14,450,078.72	1,702,238.33	39.78927870	-80.7799
17,400.00	92.00	329.95	11,012.31	5,059.03	-1,018.72	14,450,165.22	1,702,188.28	39.78951660	-80.7801
17,500.00	92.00	329.95	11,008.82	5,145.54	-1,068.77	14,450,251.73	1,702,138.24	39,78975451	-80.7802
17,600.00	92.00	329.95	11,005.33	5,232.05	-1,118.81	14,450,338.24	1,702,088.19	39,78999242	-80.7804
17,700.00	92.00	329.95	11,001.83	5,318.55	-1,168.86	14,450,424.74	1,702,038.15	39,79023033	-80.7806
17,800.00	92.00	329.95	10,998.34	5,405.06	-1,218,90	14,450,511.25	1,701,988.10	39.79046823	-80.7808
17,900.00	92.00	329.95	10,994.85	5,491.57	-1,268.94	14,450,597.76	1,701,938.06	39.79070614	-80.7809
18,000.00	92.00	329,95	10,991.36	5,578.07	-1,318,99	14,450,684,26	1,701,888.01	39.79094404	-80,7811
18,100.00	92.00	329,95	10,987.87	5,664,58	-1,369.03	14,450,770.77	1,701,837.97	39.79118195	-80.7813
18,200.00	92.00	329.95	10,984.38	5,751.08	-1,419.08	14,450,857.27	1,701,787.92	39,79141985	-80.7815
18,300.00	92.00	329.95	10,980.89	5,837.59	-1,469.12	14,450,943.78	1,701,737.88	39,79165776	-80,7816
18,400.00	92.00	329,95	10,977.40	5,924.10	-1,519.17	14,451,030,29	1,701,687.83	39,79189566	-80,7818
18,500.00	92.00	329.95	10,973.91	6,010.60	-1,569.21	14,451,116,79	1,701,637.79	39.79213357	-80,7820
18,600.00	92.00	329.95	10,970.42	6,097.11	-1,619.26	14,451,203.30	1,701,587.74	39.79237147	-80.7822
18,700.00	92.00	329.95	10,966.93	6,183.62	-1,689.30	14,451,289.80	1,701,537.70	39.79260938	-80.7824
	92.00	329.95	10,963.44	6,270.12	-1,719.35	14,451,376.31	1,701,487.65	39.79284728	-80.7825
18,800.00	92.00	329.95	10,959.95	6,356.63	-1,769,39	14,451,462.82	1,701,437.61	39,79308518	-80,7827
18,900.00	92.00	329.95	10,956.46	6,443.13	-1,819.44	14,451,549.32	1,701,387.56	39.79332309	-80,7829
19,000.00	92.00	329.95	10,952.97	6,529.64	-1,869.48	14,451,635.83	1,701,337.52	39.79356099	-80.7831
19,100.00	92.00	329.95	10,949.48	6,616,15	-1,919.53	14,451,722.34	1,701,287.47	39.79379889	-80.7832
19,200.00		329.95			the second s	14,451,808.84	1,701,237.43	39.79403679	-80.7834
19,300.00	92.00 92.00	329.95	10,945.98 10,942.49	6,702.65 6,789.16	-1,969.57	14,451,895.35	1,701,187.38	39,79427469	-80.7836
19,400.00	92.00	329.95	10,942.49	6,875.67	-2,019.62	14,451,981.85	1,701,137.34	39.79451260	-80.7838
19,600.00	92.00	329,95	10,935.51	6,962.17	-2,009.00	14,452,068.36	1,701,087.29	39.79475050	-80.7840
19,700.00	92.00	329,95	10,932,02	7,048,68	-2,169,75	14,452,154.87	1,701,037.25	39,79498840	-80.7841
Contraction of the second	92.00	329.95	10,932.02	7,135.18	-2,219,80	14,452,241.37	1,700,987.21	39,79522630	-80.7843
19,800.00		329.95			-2,269.84	14,452,327.88	1,700,937.16	39,79546420	-80,7845
19,900.00	92.00	329.95	10,925.04	7,221.69	-2,209.04	14,452,414.39	1,700,887.12	39.79570210	-80.7847
20,000.00	92.00		10,921.55	7,308.20	-2,319.09	14,452,500.89	1,700,837.07	39.79594000	-80.7848
20,100.00	92.00	329.95	10,918.06	7,394.70	and the second se		1,700,787.03	39,79617790	-80.7850
20,200.00	92.00	329.95	10,914.57	7,481.21	-2,419,98	14,452,587.40		39.79641580	-80.7852
20,300.00	92.00 92.00	329.95 329.95	10,911.08 10,907.59	7,567.72 7,654.22	-2,470.02	14,452,673.90 14,452,760.41	1,700,736.98 1,700,686.94	39.79565370	-80.7854

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COMPASS 5000.14 Build 85





DB_Jul2216dt_v14 Tug Hill Operating LLC

Bryan N-13HU (slot E)

Bryan Pad

Original Hole

rev2

Marshall County, West Virginia

Planning Report - Geographic

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

Grid Minimum Curvature

Well Bryan N-13HU (slot E) GL=1191 @ 1191.00usft GL=1191 @ 1191.00usft

Plar	ined	Su	rvey
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Database:

Company:

Project:

Wellbore:

Design:

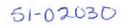
Site: Well:

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,500.00	92.00	329.95	10,904.10	7,740,73	-2,570,11	14,452,846.92	1,700,636.89	39,79689160	-80.7856008
20,600.00	92.00	329,95	10,900.61	7,827.23	-2,620.16	14,452,933.42	1,700,586.85	39.79712950	-80,7857782
20,700.00	92,00	329.95	10,897.12	7,913.74	-2,670.20	14,453,019.93	1,700,536.80	39,79736739	-80,7859557
20,800.00	92.00	329.95	10,893.62	8,000,25	-2,720.25	14,453,106.44	1,700,486.76	39,79760529	-80.7861331
20,900.00	92.00	329,95	10,890.13	8,086.75	-2,770.29	14,453,192.94	1,700,436.71	39.79784319	-80,7863106
21,000.00	92.00	329.95	10,886.64	8,173.26	-2,820.34	14,453,279.45	1,700,386.67	39,79808109	-80,7864880
21,100.00	92.00	329.95	10,883.15	8,259.76	-2,870.38	14,453,365.95	1,700,335.62	39.79831898	-80.7866654
21,200.00	92.00	329.95	10,879.66	8,346.27	-2,920.43	14,453,452.46	1,700,286.58	39.79855688	-80,7868429
21,300,00	92.00	329.95	10,876.17	8,432.78	-2,970.47	14,453,538.97	1,700,236.53	39.79879478	-80,7870203
21,400.00	92.00	329,95	10,872.68	8,519.28	-3,020.52	14,453,625.47	1,700,186.49	39,79903267	-80.7871978
21,500.00	92.00	329.95	10,869.19	8,605.79	-3,070.56	14,453,711.98	1,700,136.44	39,79927057	-80.7873752
21,600.00	92.00	329.95	10,865.70	8,692.30	-3,120.61	14,453,798.49	1,700,086.40	39.79950847	-80.7875527
21,700.00	92.00	329.95	10,862.21	8,778.80	-3,170.65	14,453,884.99	1,700,036,35	39.79974636	-80.7877301
21,800.00	92.00	329,95	10,858.72	8,865.31	-3,220.70	14,453,971.50	1,699,985.31	39,79998426	-80.7879075
21,900.00	92.00	329.95	10,855,23	8,951.81	-3,270.74	14,454,058.00	1,699,936.26	39,80022215	-80,7880850
22,000.00	92.00	329,95	10.851.74	9,038,32	-3,320.78	14,454,144.51	1,699,885,22	39,80046005	-80,7882624
22,100.00	92.00	329,95	10,848,25	9,124.83	-3,370.83	14,454,231.02	1,699,836,17	39,80069794	-80.7884399
22,200.00	92.00	329.95	10,844.76	9,211.33	-3,420.87	14,454,317.52	1,699,786.13	39,80093583	-80,7886174
22,300.00	92.00	329.95	10,841.26	9,297.84	-3,470.92	14,454,404.03	1,699,736.08	39.80117373	-80,7887948
22,400.00	92.00	329,95	10,837.77	9,384,35	-3,520.96	14,454,490.53	1,699,686.04	39.80141162	-80.7889723
22,500.00	92.00	329,95	10,834.28	9,470.85	-3,571.01	14,454,577.04	1,699,635,99	39,80164951	-80,7891497
22,600.00	92.00	329.95	10,830,79	9,557,36	-3,621.05	14,454,663.55	1,699,585.95	39,80188741	-80,7893272
22,700.00	92.00	329.95	10,827.30	9,643.86	-3,671,10	14,454,750.05	1,699,535.90	39,80212530	-80,7895046
22,800.00	92.00	329.95	10,823.81	9,730.37	-3,721.14	14,454,836.56	1,699,485.86	39.80236319	-80.7896821
22,900.00	92.00	329.95	10,820.32	9,816.88	-3,771.19	14,454,923.07	1,699,435.81	39.80260108	-80.7898596
23,000.00	92.00	329.95	10,816.83	9,903.38	-3,821.23	14,455,009.57	1,699,385.77	39.80283898	-80,7900370
23,100.00	92.00	329.95	10,813.34	9,989,89	-3,871.28	14,455,096.08	1,699,335.72	39.80307687	-80,7902145
23,200.00	92.00	329.95	10,809.85	10,076.40	-3,921.32	14,455,182.58	1,699,285.68	39,80331476	-80.7903920
23,300.00	92.00	329.95	10,806.36	10,162.90	-3,971.37	14,455,269.09	1,699,235.63	39,80355265	-80,7905694
23,400.00	92.00	329.95	10,802.87	10,249.41	-4,021.41	14,455,355.60	1,699,185.59	39.80379054	-80,7907469
23,500,00	92.00	329.95	10,799.38	10,335.91	-4,071.46	14,455,442.10	1,699,135.54	39,80402843	-80,7909244
23,600.00	92.00	329.95	10,795,89	10,422.42	-4,121.50	14,455,528.61	1,699,085.50	39,80426632	-80,7911018
23,700.00	92.00	329.95	10,792.40	10,508,93	-4,171.55	14,455,615,12	1,699,035.45	39,80450421	-80,7912793
23,800.00	92.00	329.95	10,788,91	10,595,43	-4,221.59	14,455,701.62	1,698,985.41	39.80474210	-80,7914568
23,900.00	92.00	329.95	10,785.41	10,681.94	-4,271.64	14,455,788.13	1,698,935.37	39,80497999	-80,7916343
24,000.00	92.00	329.95	10,781.92	10,768,45	-4,321.68	14,455,874.63	1,698,885.32	39,80521788	-80,7918117
24,100.00	92.00	329.95	10,778.43	10,854.95	-4.371.73	14,455,961.14	1,698,835.28	39.80545577	-80.7919893
24,200.00	92.00	329.95	10,774.94	10,941.46	-4,421.77	14,456,047.65	1,698,785.23	39,80569366	-80.7921663
24,200.00	92.00	329.95	10,771.45	11,027.96	-4,471.82	14,456,134.15	1,698,735.19	39.80593155	-80,792344
24,341.58	92.00	329.95	10,770.00	11,063.93	-4,492.63	14,456,170.12	1,698,714.38	39.80603046	-80.7924180
	24341.58 MD		and the second	T. Incontrol	1111110			CTTTTTTTTTTTTTTT	1 Statistics of the
24,341.59	92.00	329,95	10,770.00	11,063.94	-4,492.63	14,456,170.13	1,698,714.37	39,80603048	-80,7924180

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WV Department of Environmental Protection





Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	DB_Jul2216d Tug Hill Opera Marshall Cour Bryan Pad Bryan N-13HL Original Hole rev2	ating LLC hty, West Vi	rginia		TVD Referen MD Referen North Refe	nce:	GL=1191 @	N-13HU (slot E) 9 1191.00usft 9 1191.00usft 9 ti91.00usft	
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL Bryan N-13HU r2 - plan hits target ce - Point	0,00 nter	0.00	10,770.00	11,063.94	-4,492.63	14,456,170.13	1,698,714.37	39,80603048	-80.79241802
LP Bryan N-13HU - plan hits target ce - Point	0.00 nter	0.00	11,200.00	407.56	1,672.21	14,445,513.75	1,704,879.21	39.77672384	-80.77056413

Measured	Vertical	Local Coor	dinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,300.00	1,300.00	0.00	0.00	KOP Begin 1º/100' build	
1,800.00	1,799,37	-14.01	16.70	Begin 5.00° tangent	
2,500.00	2,496.70	-53.23	63.44	Begin 1°/100' drop	
3,000.00	2,996.07	-67.24	80.14	Begin vertical hold	
7,003,93	7,000.00	-67.24	80.14	Begin 2°/100' build	
8,511.27	8,438.74	-110.09	465,25	Begin 30.15° tangent	
10,931,48	10,531.60	-244.48	1,673.27	Begin 10°/100' build/turn	
12,022,96	11,200.00	407.56	1,672.21	Begin 92.00* lateral section	
24,341.58	10,770.00	11,063,93	-4,492.63	PBHL/TD 24341.58 MD/10770.00 TVD	

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WV Department of Environmental Protection

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API Number 47 - 051 Operator's Well No. Bryan N-13HU STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN OP Code 494510851 Operator Name Tug Hill Operating, LLC Watershed (HUC 10) Fish Creek - Ohio River (Undefined) Ouadrangle Powhatan Point 7.5" Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No V Will a pit be used? Yes 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 No V If so, what ml.? AST Tarks will be used with proper containing Will a synthetic liner be used in the pit? Yes Proposed Disposal Method For Treated Pit Wastes: Land Application ■ Underground Injection (UIC Permit Number UIC 2459, UIC 965, UIC 359, UIC 2D0732540, UIC 2D0732523) Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Will closed loop system be used? If so, describe: Yes - For Vertical and Horizontal Drilling Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _Air for vertical / Oil for Horizontal -If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base Additives to be used in drilling medium? Barite for weight Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. All drill cuttings to be disposed of in Wetzel County Sanitary Landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A -Landfill or offsite name/permit number? Wetzel County Sanitary Landfil (SWF-1021 / WV0109185) Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this

application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Company Official (Typed Name)_David Patterson Company Official Title Senjor Vice President, Operations	
Subscribed and sworn before me this 12th day of December, 2017 Amah Mythigh Notary Public My commission expires 08-31-2021 SARAH MCHUGH Notary Public, State of Texas	RECEIVED Office of Oil and Gas APR 9 2018
Comm. Expires 08-31-2021 Notary ID 131266510	WV 09707720168

51-02030

Operator's Well No. Bryan N-13HU

Form	WW-9	
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nt
lbs/acre
40
5
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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: Alex Underland	
Comments:	
	· · · • • · · · • · · · · · · · · · · ·
Title: Oil & Gas luspe der Date: 12/13/17	
Field Reviewed? () No	RECEIVED

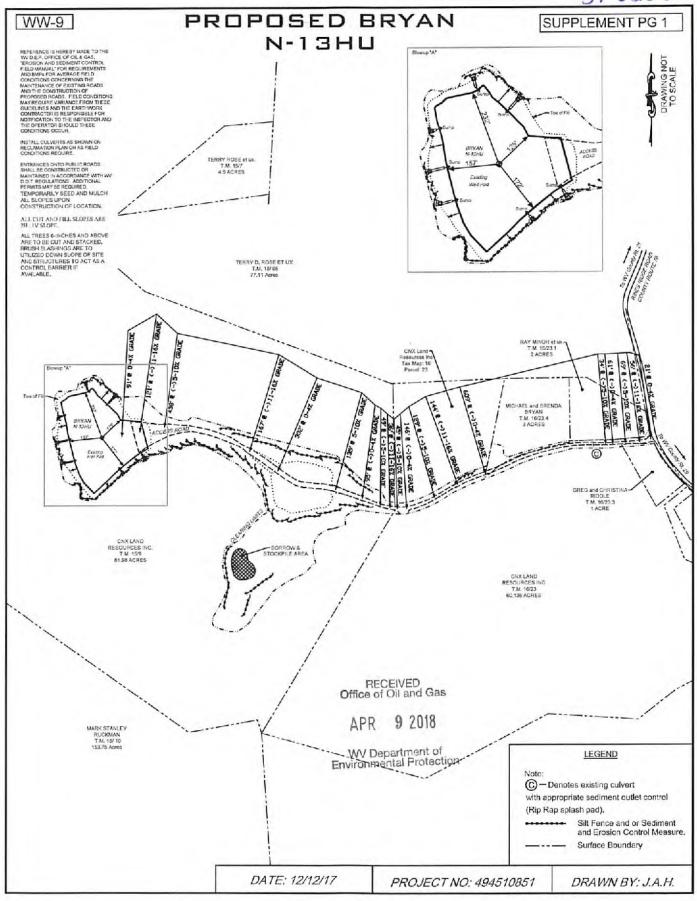
Office of Oil and Gas

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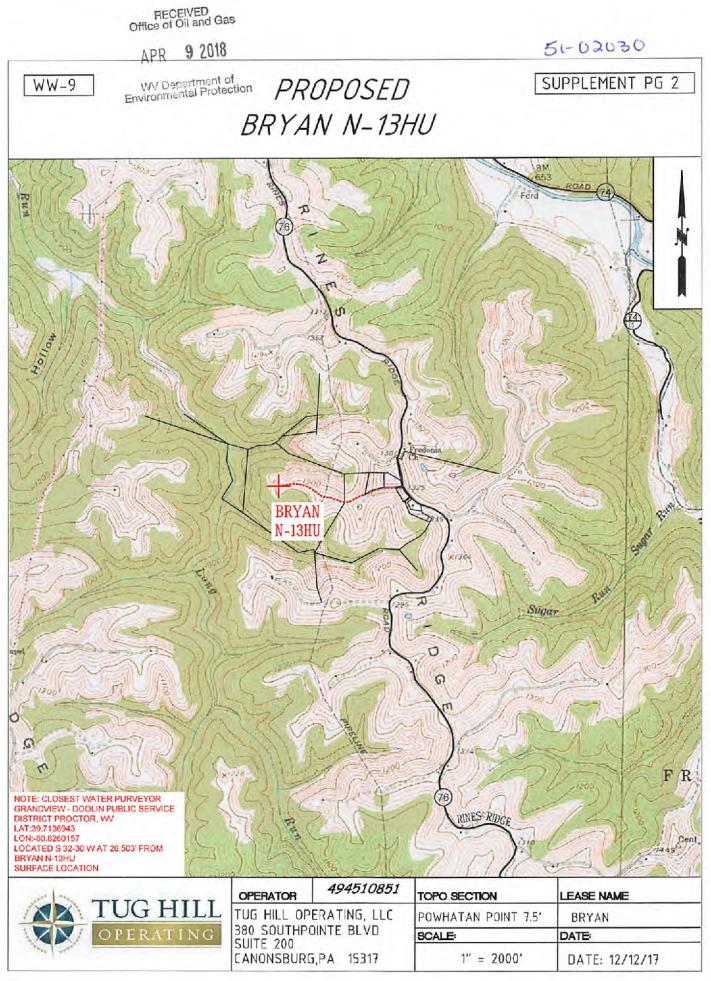
9 2018 APR

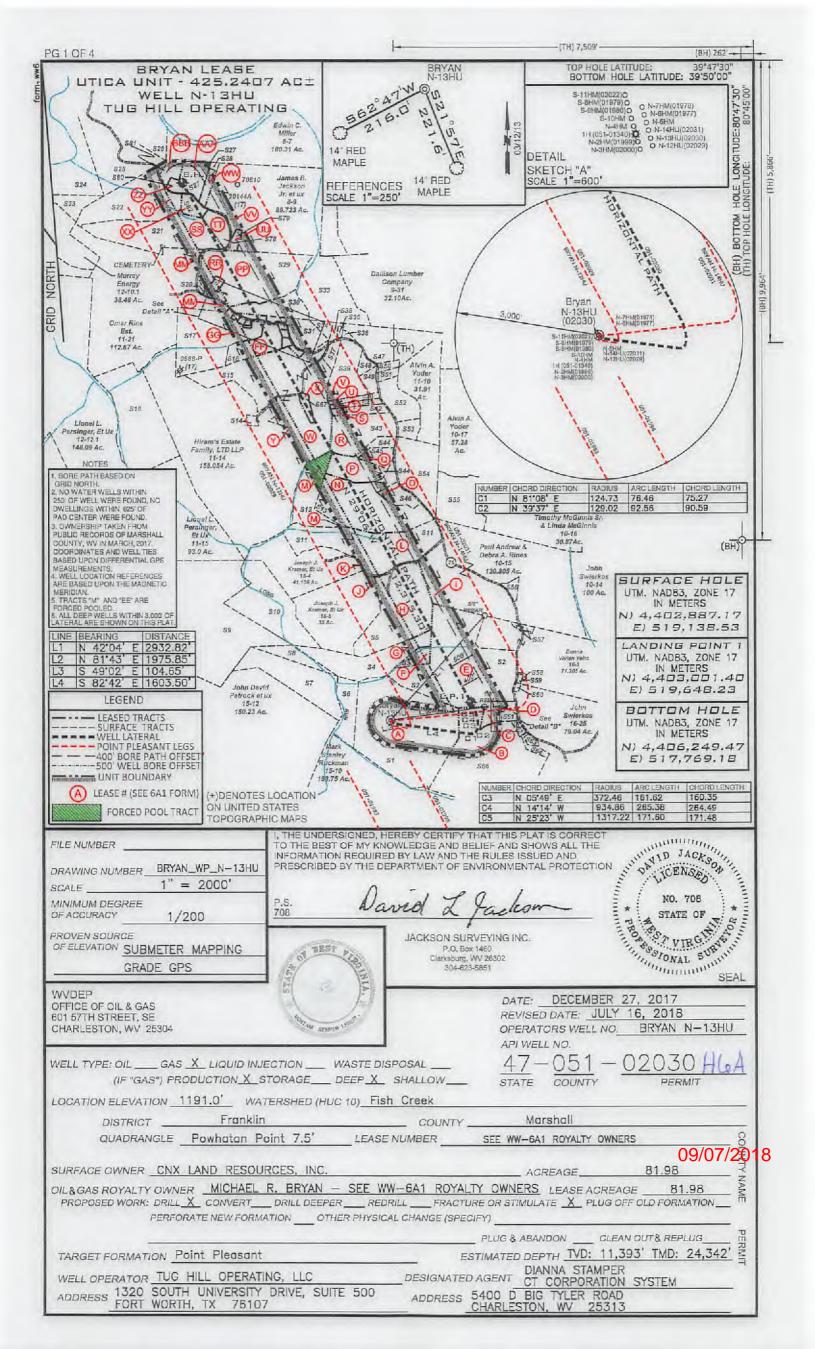
WV Department of 018 Environmental Protection 8



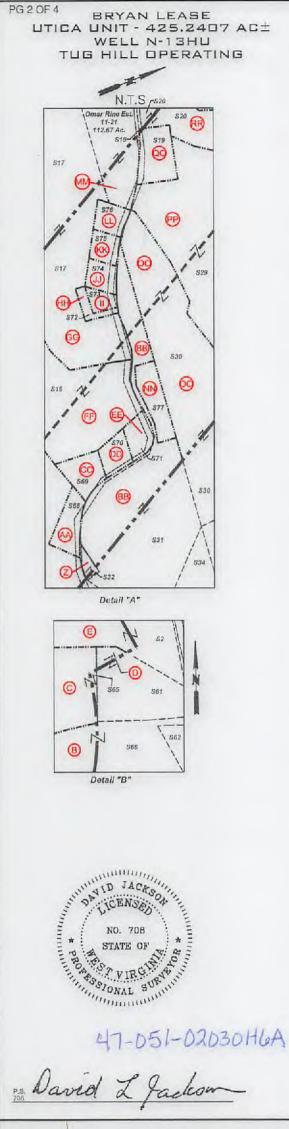
09/07/2018

51-02030





Number	TAX MAP -PARCE		ACRES
S1	15-9	CNX Land Resources, Inc.	81.98
S2	15-8	Terry D. Rose, et ux	77.1
S3	15-7	Terry D. Rose, et ux	4.5
S4	15-6.1	Joseph J. Kramar, et ux	39.40
S5	15-6	Joseph J. Kramar, et ux	42.5
56	15-13	CNX Land Resources	11.0
S7	15-14	John David Petrock, et ux	25.0
			5.0
S8	15-2	John David Petrock, at ux	
S9	15-1	Marcus Sharp & David Schlabach	121.0
S10	15-3	Joseph J. Kramar, et ux	36.10
\$11	11-12	Joseph J. Kramar, et ux	43.2188
S12	11-13	Joy D. Gartman & Arlin Gatts	12.29
S13	11-11.3	Herman D. & Herman J. Lantz	43.96
S14	11-14.1	Dennis F. Moore, et ux	1.056
S15	11-16	Keith E, Haught, et al	83.674
S16	11-17.2	Brenda & Michael Bryan	11.504
S17	11-17	Kevin R. Corley, et ux	36.13
S18	12-11	Wesley Bryan & Wesley Bryan II	52.478
			2.193
S19	11-2.2	Joshua A. Myers	
S20	11-2.1	Walter C. & Cheryl A. Rine	1.19
S21	11-1.1	Larry W. Dunlap, et al	34.405
S22	11-1.4	Larry W. Dunlap, et al	32.493
S23	12-9	Lionel & Mary Lee Persinger	10.15
S24	7-39	Lionel L. Persinger, et ux	57.0
S25	7-33	William N. Roupe	24.60
S26	7-31	William N. Roupe	43.147
S20	11-1.7	William S. & Mary K. Adams	8.0
S28	11-1.5	Paul White	3.507
S29	11-2	Walter C. & Cheryl A. Rine	42.367
S30	11-3	Kevin R. Corley, et al	13.18
S31	11-5	Kevin R. Corley, et ux	10.36
S32	11-5.1	James R. Anderson, et ux	0.205
S33	11-4	David H. Arrick, et ux	31.5
\$34	11-5.3	Robert Harris Arrick, et ux	3.0
S35	11-6	Robert & Rebecca Arrick	1.29
	11-7		1.0
S36		Baptist Cemetery	
S37	11-16.3	Kegan Michael Haught - Life	3.265
S38	11-8	Baptist Church	0.8
S39	11-9.3	Joseph M. Haught & Steven Haught	16.3
S40	11-9.5	Southern Country Farms, Inc	2.559
S41	11-9.6	Southern Country Farms, Inc	2.488
S42	11-9.9	Leonard L. Parsons, et ux	5.89
S43	11-9	Edwin C. & Kimberly A. Miller	41.773
S44	11-11.4	Brad M. & Amanda J. Blake	15.193
S45	11-11	Brad M. & Amanda J. Blake	5.0
S46		Nellie Marie & Robert W. Spencer	5.813
	11-11.1		
S47	11-9	Edwin C. & Kimberly A. Miller	41.773
S48	11-9.10	John A. & Janet L. Beucke	2.348
S49	11-9.2	Michael R. Bryan	3.143
S50	11-9.8	Sean F. Moore	2.070
S51	11-9.7	Sean F. Moore	2.026
S52	11-9.1	Jack Shepard Huggins Jr., et al	10.92
S53	11-9.4	Jack S. Huggins, et al	4.129
S54	11-11.2	Wesley R. Bryan & Wesley R. Bryan II	25.031
			30.87
S55	10-16.4	Melvin E. Ferguson & Elizabeth Ferguson	
556	10-15.1	Donald T. Miller	2.095
S57	16-3.2	Jimmy Lee Ostrander Jr., Sheena Lynn	1.435
		Ostrander & Brody Ray Ostrander	
S58	16-3.1	Dennis E. Jackson, et ux	0.27
559	16-2	Christian Church	0.19
S60	16-1	Christian Church	0.50
S61	16-23.1	Ray E. Minor, et ux	2.0
562	16-23.3	Greg & Christina Riddle	1.0
S63	16-24	Alan M. Beyser, et ux	1.083
			1.726
S64	16-23.2	Alan M. Beyser, et ux	
S65	16-23.4	Michael R. & Brenda K. Bryan	3.0
S66	16-23	CNX Land Resources, Inc.	60.138
S67	11-16.2	Joseph Haught	2.181
S68	11-16.1	Susan Smith, LE	0.876
S69	11-25	Owen Michael Barr	0.598
S70	11-23	Owen Michael Barr	0.845
S71	11-24	Charles Edward Furbee, et ux	0.603
S72	11-17.1	David Gray	0.297
S73	11-22	David Gray	0.353
S74	11-18	David E. Gray	0.569
S75	11-19	David E. Gray	0.532
S76	11-20	David E. Gray	0.569
S77	11-5.2	Rickey & Victoria Cross	1.0
\$78	11-1.2	Jay A. Conner, et ux	5.824
579	8-9.1	Scott E. Jackson, Tammy S. South &	1.957
578	0-0.1	Marion Jackson	1.007
000	44.4.0		2.093
S80	11-1.6	Debra Morris William N. & Virginia A. Roupe	
		WILLIAM DE A VICTIDIA A ROLLA	- toll
S81 S82	11-1.3	Jay A. Conner, et ux	9/07/2



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OPERATOR'S	WELL PLAT
WELL #: Bryan N-13HU	_
DISTRICT: Franklin	PAGE 2 OF 4
COUNTY: Marshall	DATE: 12/27/2017
STATE: WV	REVISED DATE: 07/16/2018

PG 3 OF 4

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BRYAN LEASE UTICA UNIT - 425.2407 AC± WELL N-13HU TUG HILL OPERATING

	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAG
10*19294	A	515-5	BRENDA K BRYAN ET AL	656	289
10*19294	6	3-16-23	ERENDA K BRYAN ET AL	656	289
0*19254	C	5-15-23,4	BRENDA K BRYAN ET AL	656	289
0*19146	D	5-16-28.1	RAY EMINOR CATHY LMINOR	706	293
0*19340		5-15-8	DONNA V YOHO	655	\$07
0*19340	F	5-15-7	DONNA VIVIAN YOHO	655	407
0*19253	G	5-15-6,1	IOSEPH L KRAMAR, SR. JO ANN KRAMAR	655	566
10*19295	G	5-15-6.1	KEVIN J. KELLY PAMELA MARXEN-KELLY	858	381
0*19255	G	5-15-6,1	MARISSA C MARKEN	837	120
0*19297	G	5-15-6.1	PHILIP LEONARD MARKEN	832	410
0*19255	Ģ	5-15-6,1	BETTY J MARKEN SLEZAK	822	351
0*19299	6	5-15-6.1	ANNETTE CONWAY MARKEN	817	512
D*19300	6	5-15-6.1	DEBORAH F HAGEMAN HUPPERT	815	145
0*10301	đ	5-15-6.1	SANDRA HAGEMAN KANGAS	815	150
0*19302	G	5-15-6.1	EFFREY C MARXEN SAMANTHA L MARXEN	817	\$06
0*19303	0	5-15-5.1	THOMAS O MARXEN	514	
0*15304	-				:589
	6	5-15-6.1	DEAN L. RINE, JR. PAMELA F. RINE	813	635
0*18305	G	5-15-6.1	KAREN MARXEN SONDROL	813	605
0*19306	6	5-15-6.1	RICHARD L TATE MARCELINE RINE TATE	814	\$94
0*19307	G	5-15-6.1	MARY SHE RINE-WALTER	815	155
0*19308	G	5-15-6,1	WILLIAM WEBER	817	646
0*19293	н	5-15-6	JOSEPH L KRAMAR, SR. JO ANN KRAMAR	655	506
0*19295	н	5-15-5	REVIN J. KELLY PAMELA MARXEN-KELLY	BSE	381
0*19236	н	5-15-6	MARISSA C MARXEN	E37	120
0*19297	H	5-15-5	PHILIP LEONARD MARKEN	E19	410
0*19298	H	5-15-0	BETTY' MARKEN SLEZAX	822	351
0*19299	н	5-15-6	ANNETTE CONWAY MARKEN	817	512
0*19300	н		DEBORAH F HAGEMAN HUPPERT	815	
	-	5-15-6	and an an and a second s		145
0*19301	H	5-15-6	SANDRA HAGEMAN KANGAS	815	150
0*19302	н	5-15-6	REFFREY C MARKEN SAMANTHA L MARKEN	817	\$06
0*15303	н	5-15-6	THOMAS O MARXEN	814	589
0*15304	H.	5-15-6	DEAN L. RINE, JR. PAMELA P. RINE	£13	635
0*15305	H	5-15-0	KAREN MARXEN SONDROL	813	605
0*18306	H	\$-15-6	RICHARD L TATE MARCELINE RINE TATE	814	554
0*15307		5-15-6	MARY SUE RINE-WALTER	815	155
D*19308	H	5-15-6	WILLIAM WEBER	817	546
D*15017	1	5-10-15	FAUL A RINE AND DEBRA A RINE	796	24
0.10303	1	5-15-5	JOSEPHIL KRAMAR, SR. JO ANN KRAMAR	635	386
0*19253	K	5-15-4	JOSEPH L MRAMAR, SR. JO ANN KRAMAR	655	566
	-		and the second se	655	566
0*19293	L	5-11-12	JOSEPHIL KRAMAR, SR. JO ANN KRAMAR		
0*18972	M	5-11-13	MARGARETCLICKNER	941	281
0*19224	M	5-11-13	AMYSUE & BAHL	731	166
0*19725	M	5-11-13	LOIS BURNS	731	174
0*19225	M	5-11-13	THOMAS RAY GATTS	731	162
0*19227	M	5-11-13	CONNIE KRESS KNAPP	734	451
0*19728	341	5-11-13	CAROLE 3 LAMBERT	737	225
0*19229	M	5-11-13	PATRICIA A LAMBERT	711	158
0*19230	M	5-11-13	MARIANN VIRGINIA MUNN	731	160
0*19731	M	5-11-13	DALE FRADCLIFF	734	462
0*19232	M	5-11-13	SANDRA I STOWE HARMON	731	149
0*19233	M	5-11-13	SHERLEY RAY STOWE	731	170
0*19233	M	5-11-13	STANLEY EUGENE STOWE	732	631
	-				
0*19735	M	\$-11-13	RDSEEDGE	731	164
0*19244	M	5-11-13	TERIA F BROOD	736	177
0*19247	M	5-11-13	JUANITA MCVEY	745	580
0*21009	M	5-11-13	JOY DENEAN GARTMAN	951	595
0*21042	M	5-11-13	REBECCA ASPERT	952	4.28
0*21545	M	5-11-13	KELY R DUNN	951	591
0*21047	M	5-11-13	RACHEL D DONAHUE	251	583
0*21048	M	5-11-13	MICHAELP OLSON	951	593
0*21253	M	5-11-13	MARY ANN STURGEL	952	430
0*23315	M	5-11-13	WILLIAM J OLSON	585	58
	M	5-11-13	EVA PATTERSON		
	-			665	392
10*19336	N	5-11-11.3	BONNIEJEAN DAWSON		
0*19336	N	5-11-11.3	BONNIEJEAN DAWSON	E65	397
10*19141	0	5-11-11.1	ROBERT W SPENCER JR NELLIE MARIE SPENCER	705	458
10*19336	р	5-11-11.4	BONNIEJEAN DAWSON	665	197
10*19336	q	5-11-11	BONNIE JEAN DAWSON	665	307
	8	5-11-9	SOUTHERN COUNTRY FARMS INC	665	- 4世
10*14699	-	1	LEONARD PARSONS CONNIE & PARSONS	705	125
10*10099	5	5-11-9.9	LEWISSING FARBURE CONTRACT PARADOTA	703	
0*19158					489
and the state of t	S T U	5-11-9.8 5-11-9.6 5-11-9.5	SOUTHERN COUNTRY FARMS INC	665	



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10*19251 5-11-5 NAE SUZETTE BAKER Interference Artistic Description 88 54:15 JOHN WILSON 88 54:15 SUSAN BLANCHE BEYSER 88 54:15 SUSAN BLANCHE BEYSER 88 54:15 SUBAN BLANCHE BEYSER 88 54:15 SUBAN BLANCHE BEYSER 88 54:15 SUBAN BLANCHE BEYSER 749 942 548 949 10*19252 277 365 10*19502 10*19803 10*21041 10*18944 CC 5-13-25 OWEN MICHAEL BARR AND TARA C BARR CC 5-12-25 WALVA MICHAEL AND REVERT CC 5-13-25 MAUNA MAXINE BEVER CC 5-13-25 NINAL KROWACS CC 5-13-25 HARRET LODUTH FOLLY CC 5-13-25 JOEL GLOVER CC 5-13-25 JOEL GLOVER CC 5-13-25 SHERY AND MCPHERON 10*19175 10*19177 10*19185 10*19185 710 710 710 598 10*19189 590 CC 3-13-35 MILINY AND AND FRANCHED CC 5-13-25 SALLY LEE INVERA CC 5-13-25 SHARLA BETH WEAVER CC 5-13-25 JAMES E YOHO CC 5-13-25 DANIEL KYOHO CC 5-13-25 DEBORAH L WOHO CC 5-13-25 DEBORAH L WOHO 10*19150 10*19191 10*19192 GON 714 713 19*19201 10*19202 10*19203 CC 5-13-25 CAROL M YDHO CC 5-13-25 DAYNA MARLENE YDHO 10*19204 10*19205 10*19251 10*19252 10*19252 10*19502 10*19893 749 942 948 948 939 623 277 10*21041 18*18946 10*19176 10*19177 10*19155 388 CE 5-11-25 SHIET AND DAVID ON THE ALL DD 5-12-23 OVERN MICHAEL LARER NAND TAKA E GARR DD 5-12-31 MAUNA MAXINE BEYSUR DD 5-12-32 MINA I KROVACS DD 5-12-31 MINA I KROVACS DD 5-11-23 IMINA I KROVACS DD 5-11-23 IMINE TUDUTITE DUDUTITE/DEY DD 5-11-23 IMILIERY MAND MICHAELEY DD 5-11-23 IMILIER TUDUTITE/DEY 598 600 606 710 710 710 10°19185 10°19186 10*19389 00 5-11-23 SHIRPT ANA RICTINUM 00 5-11-23 SHARILA BETH WEAKER 00 5-11-23 SHARILA BETH WEAKER 00 5-11-23 SHARILA BETH WEAKER 00 5-11-23 DANEL KYRHD 00 5-12-23 DANEL KYRHD 00 5-12-23 DAROL MYCHD 00 5-12-22 DAROL MYCHD 00 5-12-22 DAROL MYCHD 10*19290 10*19191 10*19192 10*19291 10*19292 \$90 714 714 713 714 10*19208 DD 5-11-23 CARDL M YORD DD 5-11-24 DAYRA MARLENE YORD DD 5-11-24 DAYRA MARLENE YORD DD 5-11-24 BAFREY CYDIO DD 5-11-25 RAESUDETTE BAKER DD 5-11-25 SUAN BLANCHE BYSTR DD 5-11-25 SUAN BLANCHE BYSTR DD 5-11-25 SWANTRED G AND EDDER G TURNEN DD 5-11-25 SHERY AND BANCHE BYSTR DD 5-11-25 SHERY AND BANCHE BYSTR EE 5-11-24 MAUNA MARKE BYSTR EE 5-11-24 MAUNA MARKE BYSTR EE 5-11-24 HANBETT CODUTH FOLLY EE 5-11-24 SHERY ANY MCPHENCN EE 5-11-24 SHERY ANY MCPHENCN EE 5-11-24 SHERY ANY MCPHENCN 10*19204 10*19205 10*19251 10*19252 10*19252 942 948 949 623 277 10*1989 10+21041 10*19176 10*19177 10*19185 10*19186 10°19189 10°19180 10°19181 10°19182 10°19281 10°19283 10°19283 10°19285 10°19285 10°19285 10°19885 10°19886 EE 5-12-24 SHARER ANNALCHINOL EE 5-12-24 SHARER ANNALCHINOL ES 5-12-24 SHARE ENVIRO ES 5-12-24 SHARE ENVIRO ES 5-12-24 JANES ENVIRO ES 5-12-24 JANES ENVIRO ES 5-12-24 JANES ENVIRO ES 5-12-24 DANES ENVIRO ES 5-12-24 DANES ENVIRO ES 5-12-24 DANES ENVIRO ES 5-12-24 DANES ANALESENDIN ES 5-12-24 DANES ENVIRO ES 5-12-24 DANES ANALESENDIN ES 5-12-24 DANES ANALESENDES E408 714 713 714 131 EE 5:15:24 CONDUM TONO EE 5:15:24 CANYAN MARELENE YOHO EE 5:15:24 JEFFREY CYCHO EE 5:15:24 JEFFREY CYCHO EE 5:15:24 JEFFREY CYCHO EF 5:15:24 JOHN WILSON EF 5:15:24 SUISAN BLANCH EIBEYSIR EF 5:15:24 SUISAN BLANCH EIBEYSIR EF 5:15:24 SUISAN DE AND METERINE EF 5:15:24 SUISAN DE AND METERINE 749 942 948 948 949 977 277 10*15853 10*21041 10*23057 10*19177 EE 5-11-24 WINIFRED G AND EIDELG TURE EE 5-11-24 SHIRY AND RANDER ATCHAR FE 5-11-24 SHIRY AND RANDER ATCHAR FE 5-11-24 SHIRY AND RANDER ATCHAR FF 5-11-27.2 INHA L KOYACS FF 5-11-17.2 INHA L KOYACS FF 5-11-17.2 INHA L KOYACS FF 5-11-17.2 INHA COVER FF 5-11-17.2 SHILV LOVER FF 5-11-17.2 SHILV LOVER FF 5-11-17.2 SHILV LOVER FF 5-11-17.2 SHILV KANN MCPHERON FF 5-11-17.2 SHILV KANN MCPHERON FF 5-11-17.2 SHARL SUMANCR FT 5-11-17.2 DEMORANCWOOLY FF 5-11-17.2 DEMORANCWOOLY FF 5-11-17.2 DAVIEL KOND FF 5-11-17.2 DAVIEN MORID FF 5-11-17.2 DAVIEN MORID 380 \$94 10*19185 10*19185 10*19189 10*19189 10*19190 10*19191 10*19192 10*19201 600 10°19201 10°19202 FF 5-11-12.2 CARDL M YOHD FF 5-11-12.2 CARDL M YOHD FF 5-11-12.2 REFMENT CYDHO FF 5-11-12.2 REFMENT CYDHO FF 5-11-17.2 ROH WILSON G6 5-11-17 ROH WILSON 714 10*19203 10*19204 10*19205 749 942 948 948 949 859 10*19251 10*19252 10*19532 10*19932 10*23941 10*23941 10*23941 10*19176 10*19176 10*19185 10*19185 277 365 47 594 710 710 10*19189 10*19190

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 JOSEPH HAUGHT

SHERRY ANN MCPHERE 5:15-5 SALIY LEE RIVERA BE 5:11-5 SHARLA BETH WEAVER BE 5:11-5 SHARLA BETH WEAVER BE 5:11-5 CAROL M VAL BE 5:11-5 CAROL M VAL BE 5:11-5 CAROL M VAL BE 5:11-5 CAROL M VAL

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 SUSAN MARE SMITH INGA SUSAN MARE HAWKER

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 SUBAN MARE SMITH NAA SUSAN MARE HAAVER

 D6
 5-13-5
 KEVIN R. CORLEY AND ANTA L. CORLEY, HUSBAND AND WIFE

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 MARINA MAXINE REFOR

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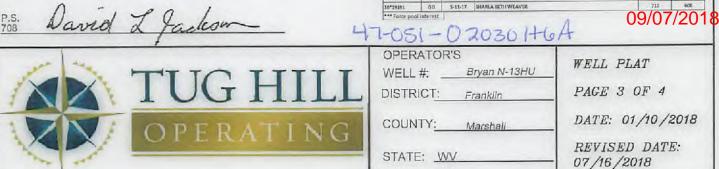
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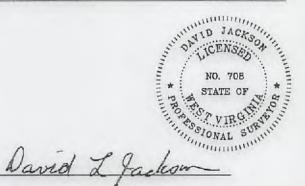
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2*19201 GG 2*19201 GG 2*19202 GG 2*19202 GG 0*19202 GG 0*19203 GG 0*19204 GG 0*19205 HH 0*19202 HH 0*19202 HH 0*19203 HH 0*19204 HH 0*19205 HH 0*19205 HH 0*19205 HH 0*19203 HH 0*19204 HH 0*19205 HH 0*19206 HH 0*19207 H 0*19208 H 0*19209 H 0*19201 H	36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 37 36 36 36 37 36 38 36 39 36 36 36 37 36 38 36 39 36 39 36 39 36 39 36 39 36 39 36 39 36 39 36 39 36 39 36 30 <	5-11-17 5-1	GANEEL KYDHO CERDRAFL WODLEY CAROLM YOHO CAROLM YOHO CAROLM YOHO CAROLM YOHO CAROLM YOHO SUSAN ELANCHE EVSER WINHHEIG GAND BODIE TUINER SUSAN ELANCHE EVSER WINHHEIG GAND BODIE TUINER SIERY AND BANDEN NITCHEA DAND BERKY MAUNA MAXINE BEYSER NINA E KOVACS SHERKY ANN MCPHERON SALLY LEE RIVERA SHERKY ANN MCPHERON SALLY LEE RIVERA SHARL SET WORAVER	714 715 713 713 713 713 714 713 714 943 943 943 943 943 943 943 943 933 710 710 710 710 710 720	125 131 205 127 205 335 332 (23 335 322 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 332 (23 335 335 332 (23 335 335 335 335 335 335 335 335 335 3	10°19205 10°19251 10°19252 10°19552 10°19552 10°19552 10°19553 10°19575 10°19577 10°19577 10°19577 10°19585 10°19580	KK KK KK KK LL LL LL LL LL	5-11-19 5-11-19 5-11-19 5-11-19 5-11-19 5-11-19 5-11-20 5-11-20 5-11-20 5-11-20	ITEFREY C YONO RAE SUZZTTE BAKER JOHN WILSON SIEAN BUANCHE BEYSER WINIFRED G AND EDDIE G TURKER SHERY AND RANDEN RITCHER HERAMS IS TATE FAMILY LIMITED LABILITY LIMITED PARTNERSHIP MADINA MAXINE BEYSER NINA LKOVACT	713 740 749 942 942 943 845 849 838 710 710	203 315 522 623 277 365 523 602 594
*19252 GG *19252 GG *19253 GG *19254 GG *19255 GG *19254 GG *19255 GG *19254 GG *19255 GG *19353 GG *19355 Hell *19355 Hell *19355 Hell *19355 Hell *19355 Hell *19355 Hell *19356 Hell *19357 Hell *19358 Hell *19359 Hell *19359 Hell *19359 Hell *19359 Hell *19351 Hell *19353 Hell *19354 Hell *19355 Hell *19356 H *19357 Hell *19358 H *19359 H >*19359 H	33 33 34 34 35 35 35 35 36 35 36 36 36 36 36 36 36 36 37 36 38 36 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 38 39 <	5-11-47 5-114-57 5-114-57 5-114-57 5-114-57 5-114-57 5-114-57 5-114-5	DEBORAH LWOOLEY CAROUM YOHO DAYNA MARLENE YOHO JAYNA MARLENE YOHO RAE SUZETTE BAKER JIOHI WIJSON SUSAN BLAN CHE BYSER WINNENES AND BODIE G TUINER SIERY AND RANDON NITCHA DAYD F GRAY MAUNA MAXINE BEYSER NINIA E KOYACS HARRIETT JODUTH FOLIY JOR GLOVER SHERY ANN MCPHERON SALLY LEE RIVERA SMALLA BET W UTAYER JAMES E YOHO	714 713 214 743 943 943 943 943 943 943 943 943 933 740 710 710 710 720	131 205 127 203 315 522 623 227 565 386 602 594 598 500	10°19251 10°19252 10°19525 10°19503 10°19503 10°1976 10°1976 10°1976 10°1976 10°1978 10°1978 10°1978 10°1978 10°1988	KK KK KK LL LL LL LL LL LL	5-11-19 5-11-19 5-11-19 5-11-19 5-11-20 5-11-20 5-11-20 5-11-20	RAE SUZETTE BAKER JOHN WILSON SUEAN BLANCHE BEYSER WINIFRED G AND EDDIE GTUENER SHEIVY AND RANDER RITCHEA HERMAS ESTATE FAMILY UMITED LIABILITY UMITED PARTNERSHIP MAUNA MAXINE BEYSER NINA LKOVACS	743 749 942 948 949 838 710 710	315 522 623 277 365 523 602 534
19221 GG 19225 GG 19255 GG 19355 GG 19352 GG 19353 GG 19354 GG 19355 GG 19356 GG 19357 GG 19358 GG 19357 HH 19105 HH 19115 HH 19125 HH 19125 HH 19120 HH 19201 HH 19202 HH 19203 HH 19204 HH 19205 HH 19205 HH 19205 H 19205 H 192061 H 192	365 365 365 365 366 366 367 366 368 366 369 366 364 366 365 366 366 366 367 367 368 368 369 368 369 368 369 368 369 368 369 368 369 368 369 368 369 368 369 368 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369 369	5-11-17 5-1	CAROLIA YONO OAYYA MARLENE YOHO JEFFREY CYCHO ARE SUZETE BAKITR JOHN WILSON SUSAN BUNCHE EINSER WINIPHED & AND EDDIE & TUINER SIERY AND BAKON INTEREA DAVID & GRAY MARINA MAXINE BENSER NIKA L KOYACS HARRIETT JOUTH FOLDY JOH GLOVER SHERY ANN MCPHERON SALLY LEE REVERA SIMILA BENYERA	713 224 713 748 949 942 949 949 949 949 949 938 710 710 710 710 710 720	205 127 203 315 522 623 277 365 386 602 594 508 600	10*13252 10*13502 10*13503 10*22041 10*1372 10*1377 10*1377 10*13186 10*13186 10*13186	KK RK KK UL UL UL UL UL	5-11-19 5-11-19 5-11-19 5-11-20 5-11-20 5-11-20 5-11-20 5-11-20	JOHN WILSON SURAN BLANCHE BEYSER WINFFRED G AND EDDIE GTUISKER SHEIV AND RANDER RITCHEA HIRMAN EISTATE FAMILY UMITED LIABILITY LIMITED PARTNEISHIP MAUNA MAXINE BEYSER NINA LKOVACS	749 942 948 949 838 710 710	522 623 277 365 523 602 594
19204 GG 19205 GG 19205 GG 19252 GG 19505 GG 19505 GG 19502 GG 19503 GG 19504 GG 19505 GG 19507 GG 1917 HH 1917 HH 1917 HH 1918 HH 1919 HH 1919 HH 1919 HH 1919 HH 19202 HH 19203 HH 19204 HH 19205 HH 19206 HH 19207 HH 19208 HH 19209 HH 19202 HH 19203 HH 19204 H 19205 H 19206 H 19207 H	355 356 356 356 356 356 356 356 356 356 356 356 357 356 358 356 356 356 357 357 358 358 359 358 359 358 359 358 359 358 359 358 359 359 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359 358 359	5-14-17 5-11-17 5-1	DAYNA MARLENE YOHG LISTREX & YOHG RAF SUZETTE BAKER JOHN WILSON SUSAN BLANCHE EEYSER WINNEREG G AND BODIG TUINNER SIERY AND RANDON INTENER DAYND & GRAY MARINA MARLINE BEYSER NINA L KOVACS NINA L KOVACS SIERY ANN MCPHERON SALEY LEE RIVERA SIERRY ANN MCPHERON SALEY LEE RIVERA	214 713 749 949 942 949 949 949 949 949 933 710 710 710 710 710 720	1127 203 315 322 623 277 365 386 602 594 594 598	10*19502 10*19893 10*21041 10*18722 18*19176 10*19177 10*19185 10*19186 10*19187 10*19186	KK KK LL LL LL LL LL LL	5-11-19 5-11-19 5-11-20 5-11-20 5-11-20 5-11-20 5-11-20	SUEAN BLANCHE BEYSER WINIFRED G AND EDDIE G TUENER SRENY AND RANDEN RICHEA IERAMS ESTATE FAMILY UINITED LABILITY LIMITED PARTNERSHIP MAUNA MAXINE REYSER NINA EKOVACS	942 948 949 838 710 710	522 277 365 521 500 559
12025 GG 12025 GG 120251 GG 120252 GG 12052 Hell 12155 Hell 12155 Hell 12155 Hell 12150 Hell 12150 Hell 12150 Hell 12150 Hell 12150 Hell 12152 Hell <	555 555 556 556 556 556 556 556	5-11-17 5-1	JEFFREY CYDHO RAE SI/ZETTE BAKER JOHN WIJSON SUSAN BLANCHE BEYSER WINEHREG GAND EDDIE G TUANER SIERY AND RANDEN INTEHEA DAVID E KRAY MAUNA MAXINE BEYSER NINA L KOVACS HARRIETT LODUTH FOLLY JOEL GLOVER SHERRY ANN MCPHERON SALLY LEE RIVERA SIMILA BET W UTAYER IAMES E YOHO	713 348 243 943 944 948 948 948 710 710 710 710 710 710 710 720	203 315 322 623 277 365 386 602 594 508 600	10*13893 10*21041 10*18722 18*19176 10*19177 10*19185 10*19185 10*19185 10*19185	КК КК Ц Ц Ц Ц Ц Ц	5-11-19 5-11-19 5-11-20 5-11-20 5-11-20 5-11-20	WINIFRED G AND EDDIE G TURKER SHERY AND RANDEN RICHER HERAMS IS TATE FAMILY LIMITED LABILITY LIMITED PARTNERSHIP MAUNA MAXINE DEVSER NINA E KOVACT	948 949 838 710 710	277 365 521 605 594
*13951 GG 13952 GG 13952 GG *13952 GG *13952 GG *13953 GG *21041 GG *13953 GG *13953 FB *13915 FB *13915 FB *12150 FB *121501 FB *120203 FB *120204 FB *120205 FB *120207 FB *120208 FB *120209 FB *120201 FB *120202 FB *120203 FB >120204	аа аа аа аа аа аа аа аа аа аа аа аа аа	5-11-17 5-1	RAE SUZETTE BARER JOHN WIJSON SUSAN BLAN CHE BYSER WINNFREIS & AND BODIE G TUINER SIERY AND BANDON NITCHA DAMD F GIRAY MAUNA MAXINE BEYSER NIKIA E KOVACS NIKIA E KOVACS HARRIETT JODUTH FOLIY JOR GLOVER SHERRY ANN MCPHERON SALLY LEE RIVERA SMILLA BET W UTAYER JAMES E YOHO	743 943 942 943 943 943 943 933 720 720 720 720 720 720 720 720 720	315 322 623 277 365 386 602 594 598 600	10*21041 10*18722 10*19176 10*19177 10*19185 10*19185 10*19185 10*19185	кк ц ц ц ц ц	5-11-19 5-11-20 5-11-20 5-11-20 5-11-20 5-11-20	SHENY AND RANDEN RITCHEA HIRAMS ESTATE FAMILY LIMITED LIABILITY LIMITED PARTNEIGHIP MAUNA MAXINE BEYSER NINA LKOVACS	949 938 710 710	365 521 603 559
19252 GG 13552 GG 13652 GG 13652 GG 13652 GG 13653 GG 13045 Hell 120161 GG 12017 Hell 12018 Hell 12019 Hell 12010 Hell 12011 Hell 12012 Hell 12013 Hell 12014 Hell 12020 Hell 120201 Hell 120202 Hell 120203 Hell 120204 Hell 120205 Hell 120207 H 120208 H 120209 H 120201 H <t< td=""><td>335 335 335 336 336 337 337 337 338 337 339</td><td>5-15-17 5-12-17 5-12-17 5-11-17 5-11-17 5-11-17,1</td><td>JOHN WILSON SUSAN BUNCHE ERSER WINIFRED & AND EDDIE & TUINER SIERY AND BARON INTEREA DAVID & GRAY MARINA MAXINE BEYSER NIKA L KOVACS NIKA L KOVACS SHERRY ANN MCPHERON SALLY LEE RIVERA SALEN LEE RIVERA</td><td>243 942 943 943 933 710 710 710 710 710 710 720</td><td>322 623 277 365 386 602 594 358 600</td><td>10*19722 10*19176 10*19177 10*19185 10*19185 10*19186 10*19187 10*19189</td><td>ц ц ц ц</td><td>5-11-20 5-11-20 5-11-20 5-11-20</td><td>HERAMS ESTATE FAMILY LIMITED HABILITY LIMITED PARTNEISHIP MAUNA MAXINE BEYSER NINA L KOVACS</td><td>938 710 710</td><td>52 60 59</td></t<>	335 335 335 336 336 337 337 337 338 337 339	5-15-17 5-12-17 5-12-17 5-11-17 5-11-17 5-11-17,1	JOHN WILSON SUSAN BUNCHE ERSER WINIFRED & AND EDDIE & TUINER SIERY AND BARON INTEREA DAVID & GRAY MARINA MAXINE BEYSER NIKA L KOVACS NIKA L KOVACS SHERRY ANN MCPHERON SALLY LEE RIVERA SALEN LEE RIVERA	243 942 943 943 933 710 710 710 710 710 710 720	322 623 277 365 386 602 594 358 600	10*19722 10*19176 10*19177 10*19185 10*19185 10*19186 10*19187 10*19189	ц ц ц ц	5-11-20 5-11-20 5-11-20 5-11-20	HERAMS ESTATE FAMILY LIMITED HABILITY LIMITED PARTNEISHIP MAUNA MAXINE BEYSER NINA L KOVACS	938 710 710	52 60 59
*19502 GG *19502 GG *20041 GG *21041 GG *21041 GG *19185 Hell *19186 Hell *19186 Hell *19186 Hell *19186 Hell *19187 Hell *19188 Hell *19190 Hell *19190 Hell *19190 Hell *19202 Hell *19203 Hell *19204 Hell *19205 Hell *19206 Hell *19207 Hell *19208 Hell *19209 Hell >192001 Hell </td <td>365 365 366 367 368</td> <td>5-14-17 5-14-17 5-14-17 5-14-17 5-14-17,1 5-14-17,</td> <td>SUSAN ELANCHE ERVSER WINHINED G AND DEDIC G TUANEH SIERY AND BRANDEN INTCHEA DAMID BRARY MAUNA MAXINE BEYSER NINA E KOVACS JABRIETT SOUTH FOLLY JOR, GLOVER SHERRY ANN MCPHERON SALLY LEE REVERA SHERRY ANN MCPHERON SALLY LEE REVERA</td> <td>842 843 843 710 710 710 710 710 710 710</td> <td>623 277 365 386 602 594 594 500</td> <td>10*19176 10*19177 10*19185 10*19186 10*19187 10*19187 10*19189</td> <td>u u u u</td> <td>5-11-20 5-11-20 5-11-20</td> <td>MAUNA MAXINE DEYSER NINA L'ROVACS</td> <td>710 710</td> <td>60 59</td>	365 365 366 367 368	5-14-17 5-14-17 5-14-17 5-14-17 5-14-17,1 5-14-17,	SUSAN ELANCHE ERVSER WINHINED G AND DEDIC G TUANEH SIERY AND BRANDEN INTCHEA DAMID BRARY MAUNA MAXINE BEYSER NINA E KOVACS JABRIETT SOUTH FOLLY JOR, GLOVER SHERRY ANN MCPHERON SALLY LEE REVERA SHERRY ANN MCPHERON SALLY LEE REVERA	842 843 843 710 710 710 710 710 710 710	623 277 365 386 602 594 594 500	10*19176 10*19177 10*19185 10*19186 10*19187 10*19187 10*19189	u u u u	5-11-20 5-11-20 5-11-20	MAUNA MAXINE DEYSER NINA L'ROVACS	710 710	60 59
**19893 GG **19893 GG **21041 GG **18845 Hell **19876 Hell **19177 Hell **19177 Hell **19177 Hell **19177 Hell **19177 Hell **19185 Hell **20101 Hell **20102 Hell **20103 Hell **20104 Hell **20105 Hell **20107 Hell **20208 Hell **20209 Hell **20201 Hell **20202 Hell **20203 Hell **20204 Hell **20205 Hell **20205 Hell	аса аса ана ана ана ана ана ана ана ана	5-14-17 5-13-17 5-13-17,1 5-14	WINIPHED G AND EDDIE G TUINNEN SIERV AND BANDEN NITCHEA DANDE GRAY MAUNA KANNE BEYSER NINA L KOVACS HARRIETTLODUTH FOLEY JORI, GLOVER SHERIY ANN MCPHERON SALLY LEE RIVERA SIARLA BETH WEAVER JAMES E YOHD	948 549 933 710 710 710 710 710 710 710	277 365 386 602 594 598 600	10*19177 10*19185 10*19185 10*19185 10*19187 10*19183	u u u	5-11-20 5-11-20	NINA LKOVACS	710	59
**21041 GG **21041 GG **10176 Hell **10176 Hell **10176 Hell **10177 Hell **10178 Hell **10178 Hell **10177 Hell **10178 Hell **10178 Hell **10188 Hell **10188 Hell **10188 Hell **10188 Hell **10189 Hell **10180 Hell	366	5-11-17 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	SHERY AND RANDON INTOHEA DAVID & GRAY MAUNA MAXINE BEYSER NINA L KOVACS HARRIETLODUTH FOLLY JOEL GLOVER SHERRY ANN MCPHERON SALLY LEE RIVERA SMALLA BETH WEAVER IAMES E YORIO	549 533 710 710 710 710 710 710 710 710	365 386 602 594 558 600	10*19185 10*19186 10*19187 10*19183	u u	5-11-20			
**18845 Hell **19127 Hell **19127 Hell **19127 Hell **19127 Hell **19127 Hell **19127 Hell **19128 Hell **19129 Hell **191201 Hell **191202 Hell **19203 Hell **19204 Hell **19205 Hell </td <td></td> <td>541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1</td> <td>DAVID E GRAY MAUNA MAXINE BEYSER NIKA L KOVACS NIKA L KOVACS HARRIETT LOUTH FOLEY JOEL GLOVER SHERY XIN MCPHERON SALLY LEE RIVERA MARLA BET WERAYUR IAMES E YOHO</td> <td>938 210 710 710 710 710 710 710</td> <td>386 602 594 598 606</td> <td>10*19185 10*19187 10*19189</td> <td>U.</td> <td></td> <td>HARRISTT LODUTH FOLEY</td> <td>713</td> <td>59</td>		541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1 541477.1	DAVID E GRAY MAUNA MAXINE BEYSER NIKA L KOVACS NIKA L KOVACS HARRIETT LOUTH FOLEY JOEL GLOVER SHERY XIN MCPHERON SALLY LEE RIVERA MARLA BET WERAYUR IAMES E YOHO	938 210 710 710 710 710 710 710	386 602 594 598 606	10*19185 10*19187 10*19189	U.		HARRISTT LODUTH FOLEY	713	59
**19176 364 **19176 364 **19177 364 **19187<		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	MAUNA MAXINE BEYSER NIKA L KOVACS HARRISTLJOUTH FOLLY JOEL GLOVER SHERRY ANK MCPHERON SHARLA BETH WIAVER JAMES E YOHO	710 710 710 710 710 710 710 710	602. 594 558 608	10*19187 10*19189			The second se		
**19177 HH **19185 HH **19185 HH **19186 HH **19186 HH **19186 HH **19186 HH **19187 HH **19188 HH **19189 HH **19180 HH **19180 HH **19180 HH **19202 HH **19203 HH **19204 HH **19205 HH **19206 H **19207 H **19208 H **19209 H **19200 H **19202 H **19203 H **19204 H **19205 H <		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	NINA L KOVACS HARRIETT LODUTH FOLEY JOR: GLOVER SHERRY ANN MCPHERON SHARLA BER WERA SHARLA BER WERA SHARLA BER WERA IAMES E YORIO	710 710 713 710 710 710	594 598 600	10*19189	11	5-11-20	IDEL GLOVER	710	60
**1218.5 484 **2318.6 144 **2318.6 144 **2318.6 144 **2318.6 144 **2318.6 144 **2318.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 144 **2320.7 147 **2320.7 147 **2320.7 147 **2320.7 11 **2320.7 11 **2320.7 11 **2320.7 11 **2320.7 11 **2320.7 11 **1320.7 11 **1320.7 11 **1320.7 11 <tr< td=""><td></td><td>5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1</td><td>HARRET LODUTH FOLLY JOEL GLOVER SHERRY ANN MCPHERON SALLY LEE RIVERA SWALLA BETH WITAYER JAMES E YOHO</td><td>710 713 710 710</td><td>598 606</td><td></td><td></td><td>5-11-20</td><td>DAVID EG RAY</td><td>710</td><td>61</td></tr<>		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	HARRET LODUTH FOLLY JOEL GLOVER SHERRY ANN MCPHERON SALLY LEE RIVERA SWALLA BETH WITAYER JAMES E YOHO	710 713 710 710	598 606			5-11-20	DAVID EG RAY	710	61
**33186 Hef **33186 Hef **33186 Hef **33120 Hef **33120 Hef **33120 Hef **33120 Hef **33120 Hef **13120 Hef **13120 Hef **13202 Hef **13203 Hef **13903 H **139202 H **139203 H **139203 H **139203 H **139203 H **139204 H </td <td></td> <td>5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1</td> <td>IDE BLOVER BHERRY LAN MCPHERON SALLY LER RIVERA BIARLA BET WERAVER IAMES E YOHO</td> <td>710 710 710</td> <td>608</td> <td></td> <td>11</td> <td>5-11-20</td> <td>SHERRY ANN MCPHERON</td> <td>710</td> <td>60</td>		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	IDE BLOVER BHERRY LAN MCPHERON SALLY LER RIVERA BIARLA BET WERAVER IAMES E YOHO	710 710 710	608		11	5-11-20	SHERRY ANN MCPHERON	710	60
**121.09 Het **121.00 Fet **121.01 Fet **121.01 Fet **121.01 Fet **121.01 Fet **121.01 Fet **121.01 Fet **121.02 Het **1200.02 H **1200.02 H **1200.01 H **1200.02 H </td <td></td> <td>5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1</td> <td>SHERRY ANN MCPHERON SALLY LEE RIVERA SHARLA BETH WEAVER JAMES E YOHO</td> <td>710 710</td> <td></td> <td>10*19190</td> <td>U.</td> <td>5-11-20</td> <td>SALLY LEE RIVERA</td> <td>710</td> <td>59</td>		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	SHERRY ANN MCPHERON SALLY LEE RIVERA SHARLA BETH WEAVER JAMES E YOHO	710 710		10*19190	U.	5-11-20	SALLY LEE RIVERA	710	59
**19100 Het **19100 Het **19101 Het **19102 Het **19102 Het **19102 Het **19202 Het **19202 Het **19202 Het **19203 Het **19204 Het **19205 H **19207 H **19208 H **19209 H **19200 H		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	SALLY LEE RIVERA SHARLA BETH WEAVER JAMES E YOHO	710	000	10*19191	ш	5-11-20	SHARLA BETH WEAVER	710	60
**19101 106 **19102 106 **19102 106 **19201 106 **19202 106 **19203 106 **19204 106 **19205 106 **19205 106 **19205 106 **19205 106 **19205 106 **19205 107 **19205 107 **19105 10 **19105 10 **19105 10 **19105 10 **19105 10 **19105 11 **19105 11 **19105 11 **19105 11 **19205 11 **19205 11 **19205 11 **19205 11 **19205 11 **19205 11 **19205 11 **19205 11 **19205		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	SHARLA BETH WTAVER IAMES E YOHO		000	10*19192	u	5-11-20	JAMES E YOHO	714	12
**19102 HH **19202 HH **19203 HH **19203 HH **19203 HH **19203 HH **19203 HH **19204 HH **19205 H		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	IAMES E YOHO	715	590	10*19201	LL	5-11-20	DANIEL K YOHO	714	17
*19201 HH *19201 HH *19202 HH *19203 HH *19204 HH *19205 HH *19206 H *19903 HH *29577 H *19266 H *19280 H *19280 H *19283 H *19284 H *19285 H *19282 H *19282 H *19283 H *19283 H *19283 H *19283 H *19283 H *19284 H *19285 H *19284 H *19285 H		5-11-17.1 5-11-17.1 5-11-17.1 5-11-17.1	and the second sec		608	10*19202	u	5-13-20	DEBORAH L'WOOLEY	714	13
*19202 HH *19202 HH *19203 HH *19204 HH *19205 HH *19205 HH *19205 HH *19251 HH *19252 HH *19253 HH *19254 HH *21063 HH *21011 HH *21013 HH *120163 H *12017 H *12017 H *12017 H *12018 H *12017 H *12018 H *12017 H *12018 H *12020 H *12020 H *120201 H *120202 H *120203 H *120204 H *120205 H *120205 H *120205 H *120205 H <td></td> <td>5-11-17.1 5-11-17.1 5-11-17.1</td> <td>DANIEL KYOHO</td> <td>714</td> <td>129</td> <td>10*19203</td> <td>u.</td> <td>5-11-20</td> <td>CARDE M YOHO</td> <td>715</td> <td>20</td>		5-11-17.1 5-11-17.1 5-11-17.1	DANIEL KYOHO	714	129	10*19203	u.	5-11-20	CARDE M YOHO	715	20
*19203 HH *19203 HH *13204 HH *13205 HH *13205 HH *13225 HH *13225 HH *13252 HH *13252 HH *13252 HH *13253 H *21041 HH *13185 H *13185 H *13286 H *13286 H *13286 H *13286 H *13280 H *13280 H *13280 H *13282 H *13283 H *13284 H *13285 H *13285 H *13285 H *139902 H *139284 H *139902 H *139903 H *139904 H *139905 <t< td=""><td></td><td>5-11-17.1 5-11-17.1</td><td></td><td>714</td><td>125</td><td></td><td></td><td></td><td></td><td>-</td><td></td></t<>		5-11-17.1 5-11-17.1		714	125					-	
*19204 Hell *19205 Hell *19206 Hell *19207 H *19207 H *19207 H *19207 H *19208 H *19209 H *19209 <td></td> <td>5-11-17.1</td> <td>DEBORAH L'WOOLEY</td> <td>714</td> <td>131</td> <td>10*19204</td> <td>u</td> <td>5-11-20</td> <td>DAYNA MARLENE YOHO</td> <td>714</td> <td>12</td>		5-11-17.1	DEBORAH L'WOOLEY	714	131	10*19204	u	5-11-20	DAYNA MARLENE YOHO	714	12
*19205 HH *19205 HH *19252 HH *19252 HH *19252 HH *19252 HH *19252 HH *19253 HH *19254 H *19255 H *19256 H *19257 H *19258 H *19258 H *19259 H *19252 H *19253 H *19205 H *192061 H *19205 H *192061 H *192051 H <td></td> <td></td> <td>CARDL M YOHO</td> <td>713</td> <td>205</td> <td></td> <td>ш.</td> <td>5-11-20</td> <td>JEFFREY C YOHO BAE SUZETTE BAKER</td> <td></td> <td></td>			CARDL M YOHO	713	205		ш.	5-11-20	JEFFREY C YOHO BAE SUZETTE BAKER		
*19251 HH *19251 HH *19522 HH *19522 HH *20503 HH *21561 HH *21561 HH *21561 HH *21563 II *21564 H *25677 II *19458 II *19456 II *19457 II *19468 II *19459 II *19450 II *19450 II *19450 II *19202 II *19203 II *19204 II *19205 II *19205 II *192051 II *192052 II *192053 II *192054 II *192055 II *192054 II *192055 II *192054 II *192055	HH HH		DAYNA MARLENE Y DHO	714	127	10*19251	11	5-13-20		748	81
*19252 HH *19252 HH *19592 HH *19592 HH *19592 HH *19593 HH *19595 H *19205 H *19206 H *19207 H *19991 H	HM HM	5-11-17.1	JEFFREY C YOHO	713	203	10*19252	u.	5-11-23	IDHN WILSON	740	52
*19902 HH *19903 HH *19903 HH *19903 HH *19905 H *19976 H *19976 H *19976 H *19977 H *19976 H *19970 H *1	HH HH	5-11-17.1	RAE SUZETTE BAKER	748	315	10*19502	ш	5-11-20	SUSAN BLANCHE BEYSER	542	62
*19893 HH *19893 HH *22051 HH *28075 H *18945 H *19877 H *19876 H *19877 H *19876 H *19885 H *19886 H *19887 H *19880 H *19893 H *19893 H *19204 H *192052 H *192053 H *192054 H *192052 H *192052 H *192052 H *192053 H *192054 H *192052 H *192053 H *192054 H *192052 H *192053 H *192054 H *192055 H *192056 H *192057 H	HH	5-11-17.1	JOHN WILSON	749	522	10*19898	ц	5-11-20	WINIFRED G AND EDDLE G TURNER	948	27
*21041 H9H 19 *21041 H9H 19 *210476 H *29476 H *2947	HH	5-18-17.1	SUSAN BLANCHE BEYSER	942	623	10*21041	ш	5-11-20	SHERY AND RANDEN RITCHEA.	949	36
*18945 II 29476 II 192977 II 192977 II 192977 II 192955 II 192955 II 19295 II 192901 II 192901 II 192902 II 192903 II 192905 II 192905 II 192905 II 192905 II 192952 II 192952 II 193952 II 193952 II 193952 II 193975 II		5-11-17.1	WINIFRED & AND EDDIE & TURNER	948	277	Q089536011	MM	5-11-21	KAREN SUE CLYDE REED	864	19
*19176 II *19176 II *19185 II *19185 II *19185 II *19185 II *19185 II *19185 II *19191 II *19201 II *19202 II *19203 II *19205 II *19907 II *19908 II *210141 II *19175 JI *19185 JI	0	5-11-17.1	SHERY AND RANDEN RITCHEA	949	365	0,088586003	MM	5-11-21	GENIE SUE THOMAS AND JOHN L'HOLMES	848	20
*19177 II *19177 II *19185 II *19185 II *19288 II *19289 II *19290 II *19290 II *19290 II *19292 II *19292 II *19292 II *19293 III *19293 III *19393 III *1939		5-11-22	DAVIDEGRAY	939	386	Q088536010	MM	5-11-21	BRENDA FAYE AMO THOMAS PETILACK	850	16
*19285 II *19285 II *19289 II *19289 II *19281 II *19582 II *19583 II *19284 II *19285 II *19284 II *19285 II *19284 II *19285 II *19386 II *19387 II *19185 JJ	11	5-11-22	MAUNA MAXINE BEYSER	710	602	Q088536002	MM	5-11-21	GAILANN YATES AND WESLEY J WOOD	848	20
*19586 II *19580 II *19580 II *19581 II *19582 II *19583 II *19204 II *19205 II *199205 II *199205 II *199205 II *199205 III *199205 III *	11	5-11-22	NINA E KOVACS	710	594	QO88586005	MM	5-11-21	SHIRLEY YATES AND FREDDIE LEE HARTSELL	848	21
*19285 II *19285 II *19295 II *19295 II *19292 II *19292 II *19293 II *19295 II *19205 II *19993 II *19993 II *19975 JJ *19175 JJ *19185 JJ	11	5-11-22	HARRIETT LODUTH FOLEY	715	598	12088586004	MM	5-11-21	BOYD DAIL IR AND MARIA YATES	845	21
*19209 II *19209 II *19591 II *19591 II *19592 II *19203 II *19204 II *19205 II *19993 II *19993 II *19975 JJ *19185 JJ	-	5-11-22	JOEL GLOVER	710	600	Q088586001	MM	5-11-21	GUY YATES	848	20
*19290 II *19590 II *19592 II *19592 II *19202 II *19203 II *19204 II *19205 II *19206 II *19207 II *19208 II *19205 II *19205 II *19205 II *19205 II *19993 II *19994 II *19995 II *19976 II *19176 JI *19175 JI	-	5-11-22	SHERRY ANN MCPHERON	710	606	0088586007	MM	5-11-71	REBERAH DRAYER AND CHRISTOPHER ELDRIDGE	850	13
*19591 II *19592 II *19592 II *19592 II *19202 II *19203 II *19204 II *19205 II *19205 II *19205 II *19205 II *19206 III *19952 III *19952 II *19952 II *19952 II *19953 II *19954 II *19957 JJ *19185 JJ	-	5-11-22	SALLY LEE RIVERA	710	590	10001586008	MM	5-11-21	BOYD BUESKING	850	15
*19192 II *192021 II *192023 II *192025 II *19202 III *19203 II *19903 II *19904 III *19905 III *199076 JJ *191075 JJ *191085 JJ	-	5-11-22	SHARLA BETH WEAVER	710	BOR	0,088586009	MM	5-13-21	CHRISTA DRAYER AND JOSHUA STALEY	851	3
*19201 II *19202 II *19203 II *19204 II *19205 II *19502 II *19503 II *19504 II *19505 II *19507 II *19176 II *19176 II *19176 II *19185 II		5-11-22	JAMES EYCHO	714	129	10*19176	NN	5-11-5.2	MAUNA MAXINE BEYSER	710	60
**19202 II **19203 II **19203 II **19204 II **19205 II **19205 II **19205 II **19205 II **19205 II **19205 II **19206 II **19907 II **21041 II **19377 III **19377 III **19378 III	_	5-11-22	DANIELKYCHO	714	125	10*19177	NIN	5-11-5.7	NINA LEOVACS	710	59
**19203 II **19204 II **19205 II **19902 II **19902 II **19902 II **19902 II **19902 II **19902 II **19176 JJJ **19177 JJ **19185 JJ		5-11-22	DEBORAH L WOOLEY	714	131	10*19185	1111	5-11-5.2	HARRIETT LODUTH FOLEY	710	59
*19204 H *19205 H *19251 H *19252 H *19252 H *19293 H *19893 H *21041 H *21045 H *19375 JJ *19375 JJ *19385 JJ	-	5-11-22	CAROL M YOHO	713	205	10*19186	NN	5-11-5,2	JOELGLOVER	710	60
*19205 II *19205 II *19251 II *19252 II *19302 II *19303 II *21041 II *19376 JJ *19377 JJ *19385 JJ		5-11-22	DAYNA MARLENE YDHO	714	127	10*19189	NP2	5-11-5.2	SHERRY ANN MCPHERON	710	60
*19251 II *19252 II *19302 II *19898 II *21041 II *19376 JJ *19377 JJ	-					10*19190				710	59
*19252 II *19302 II *19893 II *19893 II *19893 II *19375 JJ *19377 JJ *19385 JJ	_	5-11-22	JEFFREY C YORO	713	203		NN	5-11-5.2	SALLY LEE RIVERA	-	60
*19502 II *19893 II *21041 II *19376 11 *19377 11 *19385 11	_	5-11-22	RAE SUZETTE DAKER	748	315	10*19191	NN	5-11-5.2	SHARLA BETH WEAVER	710	
*19893 H *21041 H *19176 11 *19177 11 *19185 11	_	5-11-22	IOHN WILSON	749	522	10*19192	1412	5-11-5.2	JAMES E YOHO	714	12
*21041 II *19176 JJ *19177 JJ *19185 JJ	-	5-11-22	SUSAN BLANCHE BEYSER	942	123	10*19201	NN	5-11-5.2	DANIEL KYOHO	714	12
*19176 11 *19177 11 *19185 11	_	5-11-22	WINIFRED G AND EDDIE G TURNER	948	277	10*19202	NN	5-11-5,2	DEBORAH EWOOLEY	714	- 18
*19377 II *19385 II	-	5-11-22	SHERY AND NANDEN RITCHEA	949	365	10*19203	NN	5-11-5.2	CAROL M YDHO	713	20
*19185 #		5-11-18	MAUNA MAXINE BEYSER	710	602	10*19204	NN	5-11-5.2	DAYNA MARLENE YOHO	714	17
	-	5-11-18	NINALKOVACS	710	594	10*18205	2424	5-11-5.2	JEFFREY C YOHO	713	20
*19185 11	_	5-11-18	HARRIETT LODUTH FOLEY	710	198	10*19251	NN	5-11-5.2	RAE SUZETTE BARER	748	31
	_	5-11-18	JOEL GLOVER	710	600	10*19252	NN	5-11-5.2	JOHN WILSON	749	52
•19187 11	-	5-11-18	DAVID E GRAY	710	610	10*19502	NN	5-11-5,2	SUSAN BLANCHE BEYSER	942	62
*19189 33		5-11-18	SHERRY ANN MCPHERON	710	605	10*19893	NN	5-11-5.2	WINIFRED & AND EDDIE & TURNER	948	27
*19190 11		5-11-18	SALLY LEE RIVERA	710	590	10*23041	NN	5-11-5.2	SHERY AND RANDEN RITCHEA	949	м
*19191 JJ	11	5-11-18	SHARLA BETH WEAVER	710	608	10*21224	NN	5-11-5.2	RICKEY LYNN CROSS & VICTORIA ROSE CROSS	939	51
*19192 //	4	5-11-18	JAMES E YOHO	714	129	10*15722	00	5-11-3	HIRAMS ESTATE FAMILY UMITED LIABILITY LIMITED PARTNERSHIP	9.38	57
•19201 11	11	5-11-18	DANIE, KYOHO	714	125	10*19126	00	5-11-3	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	859	4
19202 11	11	5-11-18	DEBDRAH L'WOOLEY	714	131	10*19127	PP	5-11-2	WALTER C. RINE AND CHERYLANN RINE	\$59	4
*19203 11	11	5-11-18	CAROLM YOHO	713	205	10*19127	QQ	5-11-2.2	WALTER C. BINE AND CHERYLANN RINE	859	4
*19204 H	ш	5-11-18	DAYNA MAILENE YOHO	724	127	10*19127	RR	5-11-2.1	WALTER C. RINE AND CHERYLANN RINE	859	4
*19205 JJ	4	3-11-18	JEFFREY CYOHO	713	203	10*19164	AR	5-11-2.1	KATHERINE A STALNAKER	829	41
*19251 12	12	5-11-18	RAE SUZETTE BAKER	748	315	10*19169	RR	5-11-2.1	DANIEL LRINE	639	21
*19252 11		5-11-18	JOHN WILSON	749	522	10*47051.089.0			LARRY W DUNLAP AND BARBARA E DUNLAP	864	14
19502 LI		5-11-1E	SUSAN BLANCHE DEYSER	942	623		\$5	5-11-1.1			
•19699 IJ		5-11-18	WINIFRED & AND EDDIE & TURNER	948	277	10*19167	TT	5-11-1.2	JAY A CONNER PATTY LOUISE CONNER	724	15
21041 11		5-11-18	SHERY AND RANDEN RITCHEA	949	265	10*19219	uu	5-8-9,1	SEGTE E AND TAMMY SUE JACKSON	731	14
19176 KK		5-11-19	MAUNA MAXINE BEYSER	720	602	10*47051,105.0	VV	5-8-9	JAMES BJACKSON JR AND MARION LJACKSON	859	43
13177 KK		5-11-19	NINA LKDVACS	730	594	10+19168	ww	5-11-1.5	PAUL AND SANDY WHITT	715	50
and the second se	_		HARRETT LODUTH FOLEY	710	596	10*19167	XX	5-11-1.3	JAY & CONNER PATTY LOUISE CONNER	724	15
		5-11-15				10*47051.089.0	YY	5-11-1.4	LARRY W DUNLAP AND BARBARA E DUNLAP	864	1/
10186 KX		5-11-19	JOEL GLOVER	730	600	0.075705000	22	5-11-1.6	CEBRA MORAIS	797	6
*19187 KK		5-11-19	DAVID E GRAY	730	610	10*19174	AAA	5-11-1.7	WILLIAM S ADAMS MARY K ADAMS	711	3
*19189 KK	8.8	5-11-19	SHERRY ANN MCPHERON	720	606	10*19173	838	5-11-1	RANDYLYN MOORE UNDA & MOORE	717	4
and the second se		5-11-19	SALLY LEE RIVERA	730	590	10*19164	BBB	5-11-1	RANDILPECK	719	2
•19191 KK	КК	5-11-19	SHARLA BETH WEAVER	710	608	*** Force peol				-	
19192 KK	КК	5-11-19	JAMES E YOHO	714	129						
•19201 KK	KX KX	5-11-19	DANIEL K Y DHO	734	175						



1	2	TUG HILI
Z	N	OPERATING
July 1	-	

P.S. 708

47-051-02030 H6A

OPERATOR'S	
WELL #:	Bryan N-13HU
DISTRICT:	Franklin
COUNTY:	Marshall
STATE: WV	

30 HGA
WELL PLAT
PAGE 4 OF 4
DATE: 01/10/2018
<i>REVISED DATE:</i> 07/16/2018

WW-6A1 (5/13) Operator's Well No. Bryan N-13HU

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:

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

RECEIVED Office of Oil and Gas

APR 9 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 And Bulkhulle	_
Its:	Permitting Specialist ØAppalachia Region	

Page 1 of _____

51-02030

Operator's Well No. <u>Bryan N - 13HU</u>

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
0*19294	4	5-15-9	BRENDA K BRYAN ET AL	TRIENERGY INC	1/8+	666		20/348 TriEnergy Inc to AB Resources LLC	21/491 AB Resources LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	685/643 Chief Exploration & Devlopment LLC and Radler 2000 Limited Partnership to Enerplus Resources (USA) Corporation	25/1 Chief Exploration & Development, LLC, Chief Oil and Gas, LLC, Radler 2000 Limited Partnerhsip and Enerplus Resources to Chevron USA Inc	25/105 Chief Exploration & Development, LLC, Chief Oil & Gas, LLC, Radler 2000 Limited Partnership and Enerplus Resources (USA) Corporation to Chevron USA) Inc.	756/397 AB Resources LLC to Chevron USA Inc	28/355 TriEnergy Holdings LLC and TriEnergy Inc to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19294	в	5-16-23	BRENDA K BRYAN ET AL	TRIENERGY INC	1/8+	666		20/348 TriEnergy inc to AB Resources LLC	21/491 AB Resources LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	685/643 Chief Exploration & Devlopment LLC and Radler 2000 Limited Partnership to Enerplus Resources (USA) Corporation	25/1 Chief Exploration & Development, LLC, Chief Oil and Gas, LLC, Radler 2000 Limited Partnerhsip and Enerplus Resources to Chevron USA Inc	Partnership and Enerplus Resources (USA) Corporation to Chevron USA Inc.	756/397 AB Resources LLC to Chevron USA Inc	28/356 TriEnergy Holdings LLC and TriEnergy Inc to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19294	J	5-16-23.4	BRENDA K BRYAN FT AL	TRIENERGY INC	1/8+	666		20/348 TriEnergy Inc to AB Resources LLC	21/491 AB Resources LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	685/643 Chief Exploration & Devlopment LLC and Badler 2000 Limited Partnership to Enerplus Resources (USA) Corporation	25/1 Chief Exploration & Development, LLC, Chief Oll and Gas, LLC, Radler 2000 Limited Partnerksip and Enerplus Resources to Chevron USA Inc	25/105 Chief Exploration & Development, LLC, Chief Oil & Gas, LLC, Radler 2000 Limited Partnership and Enerplus Resources (USA) Corporation to Chevron USA Inc.	756/397 AB Resources LLC to Chevron USA Inc	28/356 TriEnergy Holdings LLC and TriEnergy Inc to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19145	D	5-16-23.1	RAY E MINOR CATHY L MINOR	TRIENERGY HOLDINGS, LLC	1/8+	705		24/180 TriEnergy Holdings, LLC, to NPAR, LLC	24/466 AB Resources LLC and NPAR, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	25/1 Chief Exploration & Development, LLC, Chief Oil and Gas, LLC, Radler 2000 Limited Partnerhsip and Enerplus Resources to Chevron USA Inc.	25/105 Chief Exploration & Development, LLC, Chief Oil & d Gas, LLC, Radler 2000 Limited Partnership and Enerplus Resources (USA) Corporation to Chevron USA Inc.	756/332 NPAR, LLC to Chevron USA	28/356 TriEnergy Holdings, LLC and TriEnergy, Inc to Chevron USA Inc	35/470 WPP LLC to KRP Marcellus J, LLC, Rivercrest Royalties II, LLC, Diversified Rox Minerals, LLC, BRD Royalty Holdings, LLC and Amon G Carter Foundation	40/127 Chevron USA Inc. to Th Exploration, LLC
10*19148	J E	5-15-8		GASTAR EXPLORATION USA INC	1/8+		407		23/353 Gastar Exploration USA Inc. to Atinum Marcelius I LLC	23/617 Gastar Exploration USA Inc and Atinum Marcellus LLC to A3 Resources LLC	24/319 AB Resources LLC to	25/1 Chief Exploration & Development, LLC, Chief Oil and Gas, LLC, Radler 2000 Limited Partnerhsip and Enerplus Resources to Chevron USA Inc	25/105 Chief Exploration & Development, LLC, Chief Oil &		40/57 Chevron USA Inc. to TH Exploration LLC
10*19340	1	5-15-7	DONNA VIVIAN YOHO	GASTAR EXPLORATION USA INC	1/8+	665	407	N/A	N/A	N/A	N/A	23/353 Gastar Exploration USA Inc to Atinum Marcelius I LLC	23/617 Gastar Exploration USA, Atinum Marcellus LLC to AB Resources LLC	756/397 AB Resources LLC to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19293	G	5-15-6.1	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	TRIENERGY, INC.	1/8+		566		N/A	N/A	N/A	19/623 TriEnergy Inc to AB Resources LLC	755/397 AB Resources LLC to Chevron USA Inc	28/356 TriEnergy Holdings LLC and TriEnergy Inc to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19295	G	5-15-6.1	KEVIN J. KELLY PAMELA MARXEN-KELLY	CHEVRON USA INC	1/8+	858	381	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19296	G	5-15-5.1	MARISSA C MARXEN	CHEVRON USA INC	1/8+	837	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration U.C
10*19297	G	5-15-6.1	PHILIP LEONARD MARXEN	CHEVRON USA INC	1/8+	839	410	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19298	G	5-15-5.1	BETTY J MARXEN SLEZAK	CHEVRON USA INC	1/8+	822	351	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron U5A Inc to TH Exploration LLC
10*19299	r G	5-15-6.1	ANNETTE CONWAY MARXEN	CHEVRON USA INC	1/8+	817	512	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron U5A Inc to TH Exploration U.C
10*19300	G	5-15-6.1	DEBORAH F HAGEMAN HUPPERT	CHEVRON USA INC	1/8+	815	145	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19301	G	5-15-6.1	SANDRA HAGEMAN KANGAS	CHEVRON USA INC	1/3+	815	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*19302	G	5-15-6.1	JEFFREY C MARXEN SAMANTHA L MARXEN	CHEVRON USA INC	1/8+	817	506	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
															40/57 Chevron USA Inc to TH
10*19303	G	5-15-6.1	THOMAS O MARXEN	CHEVRON USA INC	1/8+	814	589	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration LLC
10*19304	G	5-15-6.1	DEAN L. RINE, JR. PAMELA F. RINE	CHEVRON USA INC	1/8+	813	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19305	G	5-15-6.1	KAREN MARXEN SONDROL	CHEVRON USA INC	1/8+	813	605	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19306	G	5-15-6.1	RICHARD L. TATE MARCELINE	CHEVRON USA INC		814		-	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19307	G	5-15-6.1	MARY SUE RINE-WALTER	CHEVRON USA INC	1/8+	815	155	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
														N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19308 10*19293	G н	5-15-6.1	WILLIAM WEBER JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	CHEVRON USA INC	1/8+	817			N/A	N/A	N/A	N/A 19/623 TriEnergy Inc to AB Resources LLC	N/A 756/397 AB Resources LLC to Chevron USA Inc	28/356 TriEnergy Holdings LLC and TriEnergy Inc to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19295	н	5-15-6	KEVIN J. KELLY PAMELA	CHEVRON USA INC	1/8+	858			N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19296	н	5-15-6	MARISSA C MARXEN	CHEVRON USA INC		837			N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19297	н	5-15-6		CHEVRON USA INC		839			N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
	н	5-15-6	BETTY J MARXEN SLEZAK	CHEVRON USA INC					N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA inc to TH Exploration LLC
10*19298	н	5-15-6	BEITY J MARKEN SLEZAR	CHEVRON USA INC	1/8+	822	351	N/A		N/A	N/A	N/A		17/0	
10*19299	н	5-15-6	ANNETTE CONWAY MARXEN	CHEVRON USA INC	1/8+	817	512	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19300	н	5-15-6	DEBORAH F HAGEMAN HUPPERT	CHEVRON USA INC	1/8+	815	145	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10°19301	н	5-15-6	SANDRA HAGEMAN KANGAS	CHEVRON USA INC	1/8+	815	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
			JEFFREY C MARXEN SAMANTHA							N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
10*19302	н	5-15-6		CHEVRON USA INC	1/8+	817			N/A						40/57 Chevron USA Inc to TH
10*19303	H	5-15-6	THOMAS O MARXEN DEAN L. RINE, JR. PAMELA F.		1/8+	814			N/A	N/A	N/A	N/A	N/A	N/A	Exploration LLC 40/57 Chevron USA Inc to TH Exploration LLC
10*19304 10*19305	н	5-15-6		CHEVRON USA INC	1/8+	813 813			N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*19306	н	5-15-6	RICHARD L. TATE MARCELINE RINE TATE	CHEVRON USA INC	1/8+	814	594	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40/57 Chevron USA Inc to TH Exploration LLC
						1		·	-						
															40/57 Chevron USA inc to TH
10°19307	н	5-15-6	MARY SUE RINE-WALTER	CHEVRON USA INC	1/8+	815	155	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration LLC
															40/57 Chevron USA Inc to TH
10*19308	н	5-15-6	WILLIAM WEBER	CHEVRON USA INC	1/8+	817	646	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration LLC
												1			AD (127 Charges LICA has as Th
10110017		5-10-15	PAUL A RINE AND DEBRA A RINE	CHEVRON USA INC	1/8+	796	24	61/A	N/A	N/A	N/A	N/A	N/A	N/A	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19017	+ $-$	2-10-12	RINE	CHEVRON USA INC	1/0+	/90	24				170			28/356 TriEnergy Holdings LLC	
			JOSEPH I. KRAMAR, SR. JO ANN		1							19/623 TriEnergy Inc to AB	756/397 AB Resources LLC to	and TriEnergy Inc to Chevron	40/57 Chevron USA Inc to TH
10*19293	1 . 1	5-15-5		TRIENERGY, INC.	1/8+	655	566	N/A	N/A	N/A	N/A	Resources LLC	Chevron USA Inc	USA Inc	Exploration LLC
														28/356 TriEnergy Holdings LLC	
			JOSEPH I. KRAMAR, SR. JO ANN									19/623 TriEnergy Inc to AB	756/397 AB Resources LLC to	and TriEnergy Inc to Chevron	40/57 Chevron USA Inc to TH
10*19293	ĸ	5-15-4	KRAMAR	TRIENERGY, INC.	1/8+	655	566	N/A	N/A	N/A	N/A	Resources LLC	Chevron USA Inc	USA Inc	Exploration LLC
						1								28/356 TriEnergy Holdings LLC	
			JOSEPH I. KRAMAR, SR. JO ANN									19/623 TriEnergy Inc to AB	756/397 AB Resources LLC to	and TriEnergy Inc to Chevron	40/57 Chevron USA Inc to TH
10*19293	L	5-11-12	KRAMAR	TRIENERGY, INC.	1/8+	655	566	N/A	N/A	N/A	N/A	Resources LLC	Chevron USA Inc	USA Inc	Exploration LLC
10*18972	м	5-11-13	MARGARET CLICKNER	TH EXPLORATION LLC	1/8+	941	281	N/A	N/A	N/A	N/A	735/263 Gastar Exploration	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	NA
											1	USA, Inc to Atinum Marcellus I	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10°19224	м	5-11-13	AMYSUE G BAHL	GASTAR EXPLORATION USA INC	1/8+	731	166	N/A	N/A	N/A	N/A	lle	Exploration Inc	Chevron USA Inc	Exploration, LLC
10-19224	141	5-11-15	AWISOLGBARE	GASTAR EAFLORATION OSA INC	1/04	131	100	nya				735/263 Gastar Exploration	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
												USA, Inc to Atinum Marcellus I	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19225	M	5-11-13	LOIS BURNS	GASTAR EXPLORATION USA INC	1/8+	731	174	N/A	N/A	N/A	N/A	uc	Exploration Inc	Chevron USA Inc	Exploration, LLC
										<u> </u>		735/263 Gastar Exploration	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
												USA, Inc to Atinum Marcellus I	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19226	м	5-11-13	THOMAS RAY GATTS	TRIENERGY, INC.	1/8+	731	162	N/A	N/A	N/A	N/A	LLC	Exploration Inc	Chevron USA Inc	Exploration, LLC
													21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
												26/183 Gastar Exploration USA,		and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19227	м	5-11-13	CONNIE KRESS KNAPP	GASTAR EXPLORATION USA INC	1/8+	734	451	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Exploration Inc	Chevron USA Inc	Exploration, LLC
													21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
												26/183 Gastar Exploration USA,		and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19228	M	5-11-13	CAROLE J LAMBERT	GASTAR EXPLORATION USA INC	1/8+	737	225	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Exploration Inc	Chevron USA Inc	Exploration, LLC
												735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	21/41 Cert. of Merger Gastar Exploration USA, Inc to Gastar	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*10220		5-11-13	PATRICIA A LAMBERT	GASTAR EXPLORATION USA INC	1/8+	731	150	N/A	N/A	N/A	N/A	lic	Exploration Inc	Chevron USA Inc	Exploration, LLC
10*19229	м	5-11-15		CONTINUES CONTINUES A INC	1/0T	1 131	130					735/263 Gastar Exploration	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
							ĺ					USA, Inc to Atinum Marcellus I	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19230	м	5-11-13	MARIANN VIRGINIA MUNN	GASTAR EXPLORATION USA INC	1/8+	731	160	N/A	N/A	N/A	N/A	LLC	Exploration Inc	Chevron USA Inc	Exploration, LLC
						1			1				21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	1
						1						26/183 Gastar Exploration USA,	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19231	м	5-11-13	DALE F RADCLIFF	GASTAR EXPLORATION USA INC	1/8+	734	462	NA	NA	NA	NA	Inc to Atinum Marcellus I LLC	Exploration Inc	Chevron USA Inc	Exploration, LLC
					[735/263 Gastar Exploration	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
	1				1							USA, Inc to Atinum Marcellus I	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19232	м	5-11-13	SANDRA J STOWE HARMON	GASTAR EXPLORATION USA INC	1/8+	731	149	NA	NA	NA	NA	LLC	Exploration Inc	Chevron USA Inc	Exploration, LLC
1						1	l I	l				735/263 Gastar Exploration	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	
						1.						USA, Inc to Atinum Marcellus I	Exploration USA, Inc to Gastar	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19233	м	5-11-13	SHERLEY RAY STOWE	GASTAR EXPLORATION USA INC	1/8+	731	170	N/A	N/A	N/A	N/A		Exploration Inc	Chevron USA Inc	Exploration, LLC
											1	21/41 Cert. of Merger Gastar	26/192 Castas Fundametica Lifet	32/362 Gastar Exploration Inc.	AD/107 Chauser LICA Inc. A. TH
			STANLEY ELIGENE STOLE	CASTAR EVELOPATION LICA INC.	1/0.	7	6.74	N/A	N/A	N/A	N/A	Exploration USA, Inc to Gastar Exploration Inc	26/183 Gastar Exploration USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19234	M	5-11-13	STANLEY EUGENE STOWE	GASTAR EXPLORATION USA INC	1/8+	732	031		Live .		1970	I shore out the	Inte to Autom Marcenus I LLC	Tenesion operate	

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Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*19235	м	5-11-13	ROSE EDGE	GASTAR EXPLORATION USA INC	1/8+	731	164	N/A	N/A	N/A	N/A	735/263 Gastar Exploration USA, Inc to Atinum Marcellus I LLe	21/41 Cert. of Merger Gastar Exploration USA, Inc to Gastar Exploration Inc	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA inc. to TH Exploration, LLC
			1500M 01000	GASTAR EXPLORATION USA INC	1/8+	776	177		N/A	N/A	N/A	26/183 Gastar Exploration USA, Inc to Atinum Marcellus I LLC	21/41 Cert. of Merger Gastar Exploration USA, Inc to Gastar Exploration Inc	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19244	M	5-11-13	JERRY L BLOOD	GASTAR EXPLORATION USA INC.	1/8+	/36	111	N/A	N/A	IS/A	IN/A	Inc to Adnum Marcellus FLEC	21/41 Cert. of Merger Gastar	32/362 Gastar Exploration Inc.	Exploration, LCC
10*19247	м	5-11-13	JUANITA MOVEY	GASTAR EXPLORATION USA INC	1/8+	745	580	N/A	N/A	N/A	N/A	26/639 Gastar Exploration USA, Inc to Atinum Marcellus I LLC			40/127 Chevron USA Inc. to TH Exploration, LLC
10*21009	м	5-11-13	JOY DENEAN GARTMAN	TH EXPLORATION LLC	1/8+	951	595	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21042	м	5-11-13	REBECCA ASPERY	TH EXPLORATION, LLC	1/8+	952	428	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21046	м	5-11-13	KELLY R DUNN	TH EXPLORATION, LLC	1/8+	951	591	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21047	м	5-11-13	RACHEL D DONAHUE	TH EXPLORATION, LLC	1/8+	951	589	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1													
10*21048	м	5-11-13	MICHAEL PIOLSON	TH EXPLORATION, LLC	1/8+	951	593	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21253	м	5-11-13	MARY ANN STURGILL	TH EXPLORATION, LLC	1/8+	952	430	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23316	м	5-11-13	WILLIAM J OLSON	TH EXPLORATION, LLC	1/8+	985	58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	M	5-11-13	EVA PATTERSON	···· UNLEASED				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					1				44				23/617 Gastar Exploration USA, Atinum Marcellus (LLC to AB	756/397 AB Resources LLC to	40/57 Chevron USA Inc to TH
10*19336	N	5-11-11.3	BONNIE JEAN DAWSON	GASTAR EXPLORATION USA INC	1/8+	665	397	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Resources LLC 23/617 Gastar Exploration USA,	Chevron USA Inc	Exploration LLC
10*19336	N	5-11-11.3	BONNIE JEAN DAWSON	GASTAR EXPLORATION USA INC	1/8+	665	397	N/A	N/A	N/A	N/A	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	Atinum Marcellus LLC to AB Resources LLC	756/397 AB Resources LLC to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
			ROBERT W SPENCER JR NELLIE						23/353 Gastar Exploration USA		Resources Corp to TriEnergy	25/1 Chief Exploration & Development, LLC, Chief Oil and Gas, LLC, Radler 2000 Limited Partnerhsip and Enerplus	Partnership and Enerplus Resources (USA) Corporation to		40/127 Chevron USA Inc. to TH
10*19141	0	5-11-11.1	MARIE SPENCER	GASTAR EXPLORATION USA INC	1/8+	705	468	N/A	Inc to Atinum Marcellus LLC	AB Resources	Holdings LLC	Resources to Chevron USA Inc	Chevron USA Inc. 23/617 Gastar Exploration USA,	Chevron USA Inc	Exploration, LLC
10*19335	p	5-11-11.4	BONNIE JEAN DAWSON	GASTAR EXPLORATION USA INC	1/8+	665	397	N/A	N/A	N/A	N/A	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	Atinum Marcellus LLC to AB Resources LLC	756/397 AB Resources LLC to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*19336	a	5-11-11	BONNIE JEAN DAWSON	GASTAR EXPLORATION USA INC	1/8+	665	397	N/A	N/A	N/A	N/A	23/353 Gastar Exploration USA Inc to Atinum Marcellus I LLC	23/617 Gastar Exploration USA, Atinum Marcellus LLC to AB Resources LLC	756/397 AB Resources LLC to Chevron USA Inc	40/57 Chevron USA Inc to TH Exploration LLC
10*14099	P	5-11-9	SOUTHERN COUNTRY FARMS	GASTAR EXPLORATION USA INC	1/8+	566	489	N/A	N/A	N/A	N/A	N/A	23/353 Gastar Exploration USA Inc. to Atinum Marcellus I LLC	32/362 Gastar Exploration USA Inc tod Atinum Marcellus I LLC to Chevron USA Inc	40/127 Chevron USA Inc to TH Exploration LLC
10-19158	5	5-11-9.9	LEONARD PARSONS CONNIE R PARSONS	GASTAR EXPLORATION USA INC					N/A	N/A	N/A	N/A	and the second second	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC

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Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*14099	Ŧ	5-11-9.6	SOUTHERN COUNTRY FARMS	GASTAR EXPLORATION USA INC	1/8+	666	489	N/A	N/A	N/A	N/A	N/A	23/353 Gastar Exploration USA Inc. to Atinum Marcellus I LLC	32/362 Gastar Exploration USA Inc tnd Atinum Marcellus I LLC to Chevron USA Inc	40/127 Chevron USA Inc to TH Exploration LLC
10 14099	····'	3-11-9.0		GASTAR EXPLORATION OSA INC	1/0+	000	409						Inc. to Famelin Werdends / LEG	32/362 Gastar Exploration USA	
			SOUTHERN COUNTRY FARMS										23/353 Gastar Exploration USA		40/127 Chevron USA Inc to TH
10*14099	U	5-11-9.5	INC	GASTAR EXPLORATION USA INC	1/8+	666	489	N/A	N/A	N/A	N/A	N/A	Inc. to Atinum Marcellus I LLC		Exploration LLC
			RESOURCE MINERALS												
10*18339	v	5-11-9.3	HEADWATER I, LP	TH EXPLORATION LLC	1/8+	940	448	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
												21/41 Cert. of Merger Gastar		32/362 Gastar Exploration Inc.	
												Exploration USA, Inc to Gastar	23/353 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19139	w	5-11-16	HIRAM V MOORE	GASTAR EXPLORATION USA INC	1/8+	699	53	N/A	N/A	N/A	N/A	Exploration Inc	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
													24/335 Gastar Exploration USA	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19178	w	5-11-16	JOSEPH HAUGHT	GASTAR EXPLORATION USA INC	1/8+	710	69	N1/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10-19178	V	5-11-16	JOSEFARAOGAI	GASTAR EXPLORATION OSA INC	1/07	110	03		17.2			110	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			KEITH HAUGHT BEVERLY										USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19179	w	5-11-16	HAUGHT	GASTAR EXPLORATION USA INC	1/8+	710	587	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
						1								32/362 Gastar Exploration Inc.	
				GASTAR EXPLORATION USA,		1							24/335 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19180	w	5-11-16	STEVEN HAUGHT	INC	1/8+	710	67	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
			1									21/41 Cert. of Merger Gastar		32/362 Gastar Exploration Inc.	
			1						Ì			Exploration USA, Inc to Gastar	23/353 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19139	x	5-11-16.2	HIRAM V MOORE	GASTAR EXPLORATION USA INC	1/8+	699	53	N/A	N/A	N/A	N/A	Exploration Inc	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
												21/41 Cert. of Merger Gastar		32/362 Gastar Exploration Inc.	
													23/353 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19139	Y	5-11-14	HIRAM V MOORE	GASTAR EXPLORATION USA INC	1/8+	699	53	N/A	N/A	N/A	N/A	Exploration Inc	Inc to Atinum Marcelius I LLC	Chevron USA Inc	Exploration, LLC
	:						[20/207 41-11-5-	962/488 HG Energy II
1	_		JAMES R AND MELODY A									34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to HG Energy II Appalachia, LLC	Appalachia, LLC to TH Exploration, LLC
Q079728000	Z	5-11-5.1	ANDERSON	NOBLE ENERGY INC	1/8+	812	31	IN/A	N/A	N/A	N/A	Gas Company LLC 21/41 Cert. of Merger Gastar	to Noble Energy Inc	32/362 Gastar Exploration Inc.	Exploration, LLC
												Exploration USA, Inc to Gastar	23/353 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19139	AA	5-11-16.1	HIRAM V MOORE	GASTAR EXPLORATION USA INC	1/8+	699	53	N/A	N/A	N/A	N/A	Exploration Inc	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10 13135	<u> </u>				2,0.	1						21/41 Cert. of Merger Gastar		32/362 Gastar Exploration Inc.	
	1		SUSAN MARIE SMITH NKA									Exploration USA, Inc to Gastar	23/353 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19170	AA	5-11-16.1	SUSAN MARIE HAMNER	GASTAR EXPLORATION USA INC	1/8+	706	583	N/A	N/A	N/A	N/A	Exploration Inc	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
			KEVIN R. CORLEY AND ANITA L.												40/127 Chevron USA Inc. to TH
10*19126	BB	5-11-5	CORLEY, HUSBAND AND WIFE	CHEVRON USA INC	1/8+	859	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration, LLC
							[735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	BB	5-11-5	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	ис	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1	1	l					USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	BB	5-11-5	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
									N1/A	a1/a	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19185	BB	5-11-5	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	/10	598	IN/A	N/A	N/A	N/A			Chevron USA Inc	Exploration, LLC
						1	1						735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19185	BB	5-11-5	JOEL GLOVER	GASTAR EXPLORATION LISA INC	1/0+	710	600	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10*19186	88	5-11-5	JOLL GLOVER	GASTAR EXPLORATION USA INC	1/8+	1/10	600					1975	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
					1								USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19189	вв	5-11-5	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A		LLC	Chevron USA Inc	Exploration, LLC
13103		5-11-5		STOTAL EN EXAMINED USA INC		110	- ³⁰⁰					1	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
1													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19190	BB	5-11-5	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 13120	00	3-11-3	Inter the niteria	Torrent our condition oga INC	1 -1/07	1,10	1 230		1.4.,	1.207	1.4.,	1, 2	1		1

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	£00	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH
10*19191	BB	5-11-5	SHARLA BETH WEAVER	GASTAR EXPLORATION OSA INC	1/07	110	000	N/A		11/A		17/8			Exploration, LLC
						ļ							735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chargen 1164 (and 12 Th
10110102	BB	5-11-5	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	IIC	Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19192	00	5-11-5	JAMESETONO		1,01	114	11.5						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	Exploration, LLC
	1								1				USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	вв	5-11-5	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
10 19201		<u> </u>											735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19202	BB	5-11-5	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
	1 1						l						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	BB	5-11-5	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	BB	5-11-5	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
						-							735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	<u> </u>
						1							USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	ВВ	5-11-5	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
									1				26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	BB	5-11-5	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
												1		32/362 Gastar Exploration Inc.	
											1		26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	BB	5-11-5	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
														[
10*19502	BB	5-11-5	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
													-		
			WINIFRED G AND EDDIE G					1				1			
10*19893	BB	5-11-5	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
												1.			
10*21041	BB	5-11-5	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			OWEN MICHAEL BARR AND												
10*18946	20	5-11-25	TARA C BARR	TH EXPLORATION LLC	1/8+	939	388	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19176	22	5-11-25	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
		<u> </u>			1.0	740	6.00	A1/A	N/A	N/A	N/A		USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	22	5-11-25	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	/10	594			N/A		N/A		Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
					1.				N/A	N/A	N/A	11/4	USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19185	22	5-11-25	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	228	Пум				N/A		Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/407 Channel 100
		E 44 0F		GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH
10*19186	cc	5-11-25	JOEL GLOVER	UNJIAN EAFLORATION USA INC	1/01	1.10	1.000	1972							Exploration, LLC
													· ·	32/362 Gastar Exploration Inc.	40/127 Chauses 1104 1
		E 14 35	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A	LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH
10*19189		5-11-25	SHERRT ANN WUPPERON	GASTAN EAFLONATION USA INC		1,10	000								Exploration, LLC
					1	1				1				32/362 Gastar Exploration Inc.	40/107 Channe LIGA (a
10110100	-	5.11.75	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	500	N/A	N/A	N/A	N/A	N/A	LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH
10*19190	22	5-11-25	JALLT LEE NIVERA	ISASTAR EAFLORATION USA INC	1 4/07	1 /10	1 220	1.40		PWG .	192			Chevron USA Inc	Exploration, LLC

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
							ļ						USA, Inc to Atinum Marcellus I	and Atinum Marcelius I LLC, to	40/127 Chevron USA Inc. to TH
10*19191	22	5-11-25	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	цс	Chevron USA Inc	Exploration, LLC
					-,	1.2							735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1				1			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19192	20	5-11-25	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	170	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
10 19192	- ^{cc}	3-11-23	JAMES E TONO	GASTAR DA LORATION OSA INC	1/0+	/14	123		190	196			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
					1						1		USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	cc	5-11-25	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	1 71 4	1.75	M/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
10-19201	- ^u	3-11-23	DANIEL K TORO	GASTAR EXPLORATION OSA INC	1/07	/14	125	N/A		176	1970	1975	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
	60	F 44 95	DEPORTUL WOOLEY	CASTAR EVELOPATION LICA INC.				11/4	N/A		N/A	N/A		Chevron USA Inc	Exploration, LLC
10*19202	22	5-11-25	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	/14	131	N/A	IN/A	N/A	IVA	17/6	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
															40/127 Chevron USA Inc. to TH
			1	1			l			1		1	USA, inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	
10°19203	22	5-11-25	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
							1			1			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	22	5-11-25	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcelius I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	22	5-11-25	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	lic	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	ł
						1							26/639 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	22	5-11-25	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
						1								32/362 Gastar Exploration Inc.	
													26/639 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	22	5-11-25	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
				1				. •							
10*19502	20	5-11-25	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	673	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 10002		51125					025								1
			WINIFRED G AND EDDIE G										ļ		
10*19893	cc	5-11-25	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 13033		5-11-25		In Exection and the	407	340	- 211			145					
										1					
		5 44 55	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	4 10.	949	-	N1/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21041		5-11-25	SHERT AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A			190		170	
			OWEN MICHAEL BARR AND										N/A	N/A	N/A
10*18946	DD	5-11-23	TARA C BARR	TH EXPLORATION LLC	1/8+	939	388	N/A	N/A	N/A	N/A	N/A			NYA
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	DD	5-11-23	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	ис	Chevron USA Inc	Exploration, LLC
			1			1				1			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1			1				1		1	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	DD	5-11-23	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
			1										735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1			1	1			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19185	DD	5-11-23	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
		1	İ		1								735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
				1	l		1		1				USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19186	DD	5-11-23	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	luc	Chevron USA Inc	Exploration, LLC
			1		<u> </u>	1.20	1		1 ····	1			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
	}			1									USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10+10120	DD	5-11-23	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	LIC	Chevron USA Inc	Exploration, LLC
10*19189		3-11-23	STEAT AND WORTERON	GASTAR EAFLORATION USA INC	1/8+	1 110	1000		172				735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
				1							1		USA, Inc to Atinum Marcellus 1	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19190											N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10710100	DD	5-11-23	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	1 2 30	IN/A	N/A	N/A	DV/A	INA		Level on operate	

Operator's Well No. <u>Bryan N - 13HU</u>

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Bock	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
										}			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19191	DD	5-11-23	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
						1							735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19192	DD	5-11-23	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	DD	5-11-23	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	LIC	Chevron USA inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19202	DD	5-11-23	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA inc	Exploration, LLC
						1		-					735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	DD	5-11-23	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A ·	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
					-					1			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	DD	5-11-23	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 15204		J-11-2J	Dania mancene Tono		1/0+	114	141	110	10/0	1			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1							USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	DD	5-11-23	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	712	203	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
10 19205		3-11-23		GASTAR EXPLORATION USA INC	1/07	113	205	10/6	0/6	1/2		ių.		32/362 Gastar Exploration Inc.	
													26/639 Gastar Exploration USA		40/127 Chevron USA Inc. to TH
		<i></i>	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+		315		N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10*19251	DD	5-11-23	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	/48	315		N/A		- 17/2		The to Athen Marcellas T Lee	32/362 Gastar Exploration Inc.	
													26/639 Gastar Exploration USA		40/127 Chevron USA Inc. to TH
		F 44 49	IOUN MILSON	CASTAD EVELOPATION LISA INC.	1/0.		6.00		N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10*19252	DD	5-11-23	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522				inva				
		<i></i>	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/0.	0.00	6.00	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19502	DD	5-11-23	SUSAN BLANCHE BETSER	TH EXPLORATION LLC	1/8+	942	623		N/A		11/2		- 198	196	
		F 44 33	WINIFRED G AND EDDIE G TURNER	TH EXPLORATION, LLC	1/8+		277		N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19893	DD	5-11-23	TORNER	TH EXPLORATION, LLC		948	211		N/A		10/8			110	
									N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21041	DD	5-11-23	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A		176	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	11/0
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
									1.14	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10*19176	EE	5-11-24	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	/10	602	N/A	N/A	N/A	N/A	N/A	735/263 Gastar Exploration		
														32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chauren LISA Ing to Th
							1					21/2	USA, Inc to Atinum Marcellus I LLC	Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19177	EE	5-11-24	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A	N/A	N/A	4		Exploration, LCC
							1				1		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/127 Chause 1/24 1- 4
													USA, Inc to Atinum Marcellus I LLC	and Atinum Marcelius I LLC, to	
10*19185	EE	5-11-24	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
			1			1	1						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	10 (107 Cl
				1		1	1		1.	1			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19186	EE	5-11-24	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1	1	1	1	1		1	1.	1.	1	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	
10*19189	EE	5-11-24	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
1			1	1			1			1			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19190	EE	5-11-24	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	LIC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1				1			1		1	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19191	EE	5-11-24	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	1 710	600	N/A	N/A	N/A	N/A	N/A	luc	Chevron USA Inc	Exploration, LLC

Operator's Well No. <u>Bryan N - 13HU</u>

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19192	EE	5-11-24	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 19192		J-11-24	SAMES E TOTO	GASTAR EXPLORATION OSA INC	1/07	/14	125	into					735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
							ļ						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	EE	5-11-24	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19202	EE	5-11-24	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
					1								735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	EE	5-11-24	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
10 10105						1						1	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10°19204	EE	5-11-24	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	EE	5-11-24	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	lic	Chevron USA Inc	Exploration, LLC
	ļ												26/639 Gastar Exploration USA,	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	EE	5-11-24	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	749	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10 19251		J-11-24	INAL SOZETTE DANEN	GASTAN EAF LONATION 03A INC	1/07	1/40	1 313		140					32/362 Gastar Exploration Inc.	
													26/639 Gastar Exploration USA,		40/127 Chevron USA Inc. to TH
10*19252	EE	5-11-24	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10°19502	EE	5-11-24	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1															
10110000		F 41 74	WINIFRED G AND EDDIE G	TH EXPLORATION, LLC	1/8+	0.40		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19893	EE	5-11-24		TH EXPLORATION, LLC	1/8+	948	277	N/A							
10*21041	EΕ	5-11-24	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23037	EE	5-11-24	CHARLES E FURBEE	TH EXPLORATION, LLC	1/8+	977	380	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/127 Chevron USA Inc. to TH
								a. / A	A1/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to Chevron USA Inc	Exploration, LLC
10*19177	FF	5-11-17.2	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	1/10	594	N/A	N/A		NYA		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19185	FF	5-11-17.2	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
						1				· · · · · · · · · · · · · · · · · · ·			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19186	FF	5-11-17.2	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
	1												USA, Inc to Atinum Marcelius I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19189	FF	5-11-17.2	SHELLY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
						1							735/263 Gastar Exploration	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*10100		E 11 47 7		GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I	Chevron USA Inc	40/12/ Chevron USA Inc. to TH Exploration, LLC
10*19190	FF	5-11-17.2	SALLY LEE RIVERA	GASTAR EAPLORATION USA INC	1/8+	110	1 220						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1			1	I						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19191	FF	5-11-17.2	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
	1				<u> </u>	1.20	1					<u> </u>	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1							USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19192	FF	5-11-17.2	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Expioration, LLC

Image Image <th< th=""><th>Lease No.</th><th>Tags</th><th>Parcel</th><th>Lessor</th><th>Lessee</th><th>Roylaty</th><th>Book</th><th>Pg</th><th>Assignment</th><th>Assignment</th><th>Assignment</th><th>Assignment</th><th>Assignment</th><th>Assignment</th><th>Assignment</th><th>Assignment</th></th<>	Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
Dir 19 Tr 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1														735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
1 1	l										1			USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
Phy Phy <td>10°19201</td> <td>FF</td> <td>5-11-17.2</td> <td>DANIEL K YOHO</td> <td>GASTAR EXPLORATION USA INC</td> <td>1/8+</td> <td>714</td> <td>125</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>uc</td> <td>Chevron USA Inc</td> <td>Exploration, LLC</td>	10°19201	FF	5-11-17.2	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
Dir 1000 Fit 5 - 1-10 Description Dir 1000 Dir 1000 <thdir 1000<="" th=""> <thdir 10000<="" th=""> <!--</td--><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>735/263 Gastar Exploration</td><td></td><td></td></thdir></thdir>														735/263 Gastar Exploration		
VIDE FI S11-22 See All Tribuin All Tribui										1				USA, Inc to Atinum Marcellus I		
21/2 21/2 <th< td=""><td>10*19202</td><td>FF</td><td>5-11-17.2</td><td>DEBORAH L WOOLEY</td><td>GASTAR EXPLORATION USA INC</td><td>1/8+</td><td>714</td><td>131</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>LLC</td><td></td><td>Exploration, LLC</td></th<>	10*19202	FF	5-11-17.2	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	LLC		Exploration, LLC
19 9 19 </td <td></td> <td>· ·</td> <td>1</td> <td></td>														· ·	1	
Pripe Pri Stable Pri Pr						1										
Br Br Still 20 Owne Addition Workshow	10*19203	FF	5-11-17.2	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	uc		Exploration, LLC
jp:jp:pp if status power Use is sequence of the sequ														735/263 Gastar Exploration		
1/2 1/2 <td></td> <td></td> <td></td> <td></td> <td></td> <td>} </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 ·</td> <td></td> <td></td>						}								1 ·		
μ_{1} μ_{1} μ_{1} μ_{1} μ_{2} <	10*19204	FF	5-11-17.2	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
121 1232 17 51.102 REAL PROPERTING GRATE REPORTING LANGE AND LANG																
1/2 1/2 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>												-				
pr pr< pr< pr< pr< pr< pr< pr< <	10*19205	FF	<u>5-11-1</u> 7.2	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
121 3233 14 5-12-72 NA SURTYE MAR 30 0-ATTAK LORDARTION USANCE 14 15 NA NA NA NA NA Contract Manumental LLC Description					4											
1/2 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0 1/2 0				1						-				1		
19:2522 17: 51:17:2 MAX MA	10*19251	FF	5-11-17.2	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
Initialization Initial													1		1 · ·	
10*1952 FF 5-11-72 SUBAR BLACH BYSER THE DPLORATION LLC 1/2 60 1/2																
101 102 <td>10*19252</td> <td>FF</td> <td>5-11-17.2</td> <td>JOHN WILSON</td> <td>GASTAR EXPLORATION USA INC</td> <td>1/8+</td> <td>749</td> <td>522</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>Inc to Atinum Marcellus I LLC</td> <td>Chevron USA Inc</td> <td>Exploration, LLC</td>	10*19252	FF	5-11-17.2	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
101 102 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								[
Display Display <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></t<>											1					
191:3993 197 9.14:17.2 UMARE IM EXPLOATION, LCC 1/2 9.9 97 N/A	10*19502	FF	5-11-17.2	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
191:3993 197 9.14:17.2 UMARE IM EXPLOATION, LCC 1/2 9.9 97 N/A																
Invitation Invitat				WINIFRED G AND EDDIE G	1											
Construction Construction<	10*19893	FF	5-11-17.2	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Construction Construction<	1												l	l		
Construction Construction<								1			1			1		
10*19126 6G 5.11.27 CORLEY V/A /A V/A <	10*21041	FF	5-11-17.2	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19126 6G 5.11.27 CORLEY V/A /A V/A <																
10*10:0 00 </td <td></td> <td></td> <td></td> <td>KEVIN R. CORLEY AND ANITA L.</td> <td></td> <td>40/127 Chevron USA Inc. to TH</td>				KEVIN R. CORLEY AND ANITA L.												40/127 Chevron USA Inc. to TH
10*19197 GG 5.11.17 MAUNA MAXINE BEYSER GASTAR EUPLORATION USA INC 1/9 70 602 N/A N/A N/A N/A N/A USA, Inc to Akinum Marcellus I (Lo; 4/1/27 Chevron USA INC 4/1/27 Chevron USA INC 10*19177 GG 5.11.17 NINA L KOVACS GASTAR EUPLORATION USA INC 1/9+ 710 604 N/A N/A N/A N/A N/A 1/0+	10*19126	GG	5-11-17	CORLEY	CHEVRON USA INC	1/8+	859	47	N/A	N/A	N/A	N/A	N/A	N/A		Exploration, LLC
10*19175 G6 5-11-7 MAUNA MAXINE BEYSER GASTAR EXPLORATION USA INC 1/9 70 602 N/A N/A N/A N/A N/A UC Deverou USA Inc Epidemiculu C 10*19177 G6 5-11-17 NIA L KOVACS GASTAR EXPLORATION USA INC 1/8 70 54 N/A														735/263 Gastar Exploration		
10*19177 GG 5-11-17 NINA L KOVACS GASTAR EXPLORATION USA INC 1/8* 710 59 N/A				1		}						1				
International International<	10*19176	GG	5-11-17	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
10*19177 GG 5-11-17 NIAA LKOVACS GASTAR EXPLORATION USA INC 1/8 710 594 N/A																
Construction Construction<				1												
Normal	10*19177	GG	5-11-17	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
10*19185 GG 5-11-7 HARIETT LODUTH FOLEY GASTAR EXPLORATION USA INC 1/8+ 710 590 N/A N/A N/A N/A N/A N/A LC Chevron USA Inc Exploration LC Exploration LC Exploration LC Marcentus ILLC Marcentus ILLC <td></td> <td> </td> <td></td> <td>1</td> <td></td> <td></td> <td></td>													1			
$\frac{10^{4}}{10^{4}} \frac{10^{4}}{10^{4}} \frac{10^{4}}{$						}								1 ·		
10*19186 G 5-11-17 JOE GLOVER GASTAR EXPLORATION USA INC 1/8+ 710 600 N/A N/A N/A N/A N/A N/A LC Gastar Exploration USA Inc and Atinum Marcellus ILLC, to Chevron USA Inc 40/127 Chevron USA Inc Exploration USA Chevron USA Inc Chevron USA Inc Chevron USA Inc Exploration USA Chevron USA Inc Ch	10*19185	GG	5-11-17	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A			Exploration, LLC
10*19186 GG 5-11-7 IDE GL GUVER GASTAR EXPLORATION USA INC 1/8 710 600 N/A N/A N/A N/A N/A N/A N/A ILC Chevron USA Inc Exploration Inc. 10*19180 GG 5-11-7 SHELLY ANN MCPHERON GASTAR EXPLORATION USA INC 1/8 710 605 N/A N/A N/A N/A N/A N/A M/A M/A </td <td></td> <td> T</td> <td></td>		T														
Interview						1 1										
10*19189 GG 5-11-17 SHELLY ANN MCPHERON GASTAR EXPLORATION USA INC 1/8+ 710 606 N/A N/A N/A N/A N/A N/A M/A	10*19186	GG	5-11-17	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	uc		Exploration, LLC
10*19189 GG 5-11-7 SHELLY ANN MCPHERON GASTAR EXPLORATION USA INC 1/8+ 710 606 N/A N/A N/A N/A N/A LLC Chevron USA Inc. Exploration Inc. Additum Marcellus I LLC, on datinum Marcel																
Image: Note of the problem of the p						1		I I								
10*19190 GG 5-11-17 SALLY LEE RIVERA GASTAR EXPLORATION USA INC 1/8+ 710 590 N/A	10*19189	GG	5-11-17	SHELLY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A	uc		Exploration, LLC
10*1910 GG 5-11-7 SALLY LEE RIVERA GASTAR EXPLORATION USA INC 1/8+ 710 590 N/A N/A N/A N/A N/A LLC Chevron USA Inc Exploration Inc. 10*1910 GG 5-11-77 SALLY LEE RIVERA GASTAR EXPLORATION USA INC 1/8+ 710 608 N/A														735/263 Gastar Exploration		
10*19191 GG 5-11-17 SHARLA BETH WEAVER ASTAR EXPLORATION USA INC 1/8+ 710 608 N/A N/A N/A N/A N/A N/A 10*101 32/362 Gastar Exploration Inc. USA, Inc to Atinum Marcellus I LLC and Atinum Marcellus I LLC 1/8+ 710 608 N/A N/A N/A N/A N/A 1/8+ 710 608 1/8+ 710 608 N/A N/A N/A N/A 1/10*101	1													1		
10*19191 GG 5-11-17 SHARLA BETH WEAVER GASTAR EXPLORATION USA INC 1/8+ 710 608 N/A N/A N/A N/A USA, Inc to Atinum Marcellus I and Atinum Marcellus I LLC, to Atinum Marcellus	10*19190	GG	5-11-17	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	lic	Chevron USA Inc	Exploration, LLC
10°19191 GG 5-11-17 SHARLA BETH WEAVER GASTAR EXPLORATION USA INC 1/8+ 710 608 N/A N/A N/A N/A LLC Chevron USA Inc Exploration, LLC 10°19191 GG 5-11-17 SHARLA BETH WEAVER GASTAR EXPLORATION USA INC 1/8+ 710 608 N/A N/A N/A N/A M/A Chevron USA Inc Exploration, LLC 10°1919 Inclument Inclument Inclument Inclument Inclument Inclument 40/127 Chevron USA Inc 40/127 Chevron USA Inc </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>735/263 Gastar Exploration</td> <td>32/362 Gastar Exploration Inc.</td> <td></td>								<u> </u>						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
10*19191 GG 5-11-17 SHAR LA BETH WEAVER GASTAR EXPLORATION USA INC 1/8+ 7.0 6/8 N/A N/A N/A N/A LLC Chevron USA Inc Exploration, LLC 10*19191 GG 5-11-17 SHAR LA BETH WEAVER GASTAR EXPLORATION USA INC 1/8+ 7.10 6/8 N/A N/A N/A N/A ILC Chevron USA Inc Exploration, LLC 10*19191 GG 5-11-17 SHARLA BETH WEAVER GASTAR EXPLORATION USA INC 1/8+ 7.10 6/8 N/A N/A N/A N/A N/A Income state 7.35/263 Gastar Exploration 8/2/362 Gastar Exploration Inc. 40/127 Chevron USA Inc 40/												1		USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
735/263 Gastar Exploration Inc. USA, Inc to Atinum Marcellus I	10°19191	GG	5-11-17	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	
USA, Inc to Atinum Marcellus I and Atinum Marcellus I LLC, to 40/127 Chevron USA In													1	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
								1								40/127 Chevron USA Inc. to TH
10°19192 GG 5-11-17 JAMES E YOHO GASTAR EXPLORATION USA INC 1/8+ 714 129 N/A N/A N/A N/A N/A N/A LLC Chevron USA Inc Exploration, LLC	10*19192	GG	5-11-17	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcelius I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	GG	5-11-17	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
		1						1					USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19202	GG	5-11-17	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
	1 1	1					1						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	GG	5-11-17	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	luc	Chevron USA Inc	Exploration, LLC
	1 1	1											735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
[1						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	GG	5-11-17	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
												1	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
							1		1		1	1	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	GG	5-11-17	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	ис	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
							1						26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	GG	5-11-17	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
					1									32/362 Gastar Exploration Inc.	
					1		1						26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	GG	5-11-17	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
						1				1					
								1							
10*19502	GG	5-11-17	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
							1020				-		1		
			WINIFRED G AND EDDIE G				Ł			1			1		
10*19893	GG	5-11-17	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 15055		5.11.17			1/07	340		N/0	<u>NC</u>				1		
				1			1								
10*21041	GG	5-11-17	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	0.40	365	A1/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 21041		5-11-17	SHERT AND RANDER RITCHEA	In Exploration, LEC	1/07	949	1 303			11/6	19/6				
								1						1	
10*18945	нн	5-11-17 1	DAVID E GRAY	TH EXPLORATION LLC	1/8+	0.20	386	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 10040		5-11-17.1	DAVID E GIGI		1/07	939	300		N/A	170			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			}				1						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	нн	5.11.17.1	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/0.	1 710	602	11/4	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
10 15170		5-11-17.1	MACINA MAAINE BEISER	GASTAR EXPLORATION USA INC	1/8+	110	002		N/A	10/A			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	· · · · · · · · · · · · · · · · · · ·
				1			1						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	нн	5-11-17.1	NINA L KOVACS	CASTAR SYRLORATION USA INC			-		N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
10 19177	nn	5-11-17.1	NINA E KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A		19/6	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
							1	1					USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10110107												N/A	LIC	Chevron USA Inc	Exploration, LLC
10*19185	нн	5-11-17.1	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A		32/362 Gastar Exploration Inc.	In the second seco
			1			1	1				1		735/263 Gastar Exploration	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
						.						A1/A	USA, Inc to Atinum Marcellus I ILLC	Chevron USA Inc	Exploration, LLC
10*19186	нн	5-11-17.1	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A			Explore tony ECG
	! I		1		1	1					1		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/127 Chourse LISA Inc. 4- 71
					1	1	1						USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19189	нн	5-11-17.1	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
			1		ł	1					1		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1		1	1	1						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19190	нн	5-11-17.1	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
							1				1		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1	1	1	1	1		1	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10°19191	_ нн	5-11-17.1	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
	_7												735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						1	1						USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
			JAMES E YOHO	GASTAR EXPLORATION USA INC						N/A	N/A	N/A	luc	Chevron USA Inc	Exploration, LLC

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*19201	нн	5-11-17.1	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	735/263 Gastar Exploration USA, Inc to Atinum Marcellus I LLC	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10 19201		5-11-17.1		DASTAL DI LONATION OSA INC	1/0+	/14	125						735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	
10*19202	нн	5-11-17.1	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	LLC 735/263 Gastar Exploration	Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
10*19203	нн	5-11-17.1	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA inc. to TH Exploration, LLC
						1.00	200						735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	нн	5-11-17.1	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
10*19205	нн	5-11-17.1	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	735/263 Gastar Exploration USA, Inc to Atinum Marcellus I LLC	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
													26/639 Gastar Exploration USA,	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	нн	5-11-17.1	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
													26/639 Gastar Exploration USA,	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	НН	5-11-17.1	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10*19502	нн	5-11-17.1	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			WINIFRED G AND EDDIE G												
10*19893	нн	5-11-17.1	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
															N/A
10*21041	нн	5-11-17.1	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10°18945	n	5-11-22	DAVID E GRAY	TH EXPLORATION LLC	1/8+	939	386	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	11	5-11-22	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	LLC 735/263 Gastar Exploration	Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
		F 44 33					504	au /a	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19177		5-11-22	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	/10	594						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
10*19185	u	5-11-22	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19186	0	5-11-22	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	LLC 735/263 Gastar Exploration	Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
	u	5 44 33	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/0.	710	606	A1/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC		40/127 Chevron USA Inc. to TH Exploration, LLC
10*19189	"	5-11-22	SHERRT ANN MICPHERON	GASTAR EXPLORATION USA INC	1/8+	/10	000	N/A				170	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
10*19190	u	5-11-22	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19191	11	5-11-22	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	LLC 735/263 Gastar Exploration	Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
10110102		5 11 22		CASTAR EVELOPATION LICA INC.	1/0.		170	A1/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus i	and Atinum Marceilus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19192	1 N.	5-11-22	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	/14	129	197A						Citerion obvine	

Operator's Well No. <u>Bryan N - 13HU</u>

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
									1				735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
									1				USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	11	5-11-22	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125 N/	Α	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19202	n	5-11-22	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131 N/	A	N/A	N/A	N/A	N/A	LLC	32/362 Gastar Exploration Inc.	Exploration, CC
										1			735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203		5-11-22	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/0+	712	205 N/	٨	N/A	N/A	N/A	N/A	LLc	Chevron USA Inc	Exploration, LLC
10 15205		5-11-22		GASTAN EXPLORATION OSA INC	1/07	113	203 14/	^	190	140	140		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	/
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	1 11	5-11-22	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127 N/	Ά	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
	1				1 10		!						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
					1						1		USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	n	5-11-22	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203 N/	A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
													26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	II.	5-11-22	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315 N/	Ά	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
			1										26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	11	5-11-22	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522 N/	Ά	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
		-												N/A	N/A
10*19502	<u> </u>	5-11-22	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623 N/	Α	N/A	N/A	N/A	N/A	N/A		
10*19893		E 11 22	WINIFRED G AND EDDIE G		1/0.		277 N	A	A1/A	N/A	N/A	N/A	N/A	N/A	N/A
10, 19992	- " -	5-11-22		TH EXPLORATION, LLC	1/8+	948	277 N/	A	N/A	N/A				<u> </u>	
					1										
10*21041	в	5-11-22	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365 N/	۵	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	+ "	<u> </u>			1 2/01		303 1.1/	<u> </u>					735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
]									1				USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	11	5-11-18	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602 N/	Ά	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1										USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	u	5-11-18	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594 N/	Ά	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19185	11	5-11-18	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598 N/	'A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
					1								735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
					1.								USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19186	n	5-11-18	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600 N/	Α	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/127 Chevron USA Inc. to TH
10110107											41/4	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	Exploration, LLC
10*19187		5-11-18	DAVID E GRAY	GASTAR EXPLORATION USA INC	1/8+	710	610 N/	A	N/A	N/A	N/A		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19189	_	5-11-18	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	605 N/	ίλ.	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 13103	+ <u> </u>	3-11-10	SOLANT AND MOTIENON	CASIAN EAPLONATION USA INC	1/0+	1.0		~					735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19190		5-11-18	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590 N/	Δ	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
	+ - +	3-11-10		CONTRACTOR CONTINUE OF A INC	1,04	1.10	330 117	<u> </u>					735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
1					1								USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
	1 1		SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC				14	N/A	N/A	N/A	N/A	luc	Chevron USA Inc	Exploration, LLC
10*19191	ותן	2-11-18			1/8+	1 /10									
10*19191	<u> </u>	5-11-18	SHAREA DE IN WEAVER	GASTAR EAPLORATION USA INC	1/8+	/10	608 N/	<u> </u>					735/263 Gastar Exploration		
10*19191	u I	5-11-18		GASTAR EXPLORATION USA INC	1/8+	/10	608 14/	<u> </u>					735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	n	5-11-18	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
]								735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19202		5-11-18	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 15202	- "	J-11-10			1/01	114							735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
					1								USA, Inc to Atinum Marcelius I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	u	5-11-18	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			-						}				USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19204	u	5-11-18	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
	i										1		735/263 Gastar Exploration USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19205	ן ת	5-11-18	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 19205		J-11-10			1/01	1.13	205							32/362 Gastar Exploration Inc.	
												1	26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19251	u	5-11-18	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
													26/639 Gastar Exploration USA,		40/127 Chevron USA Inc. to TH
10*19252	n	5-11-18	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
												N/A	N/A	N/A	N/A
10*19502	11	5-11-18	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A		N/A		
			WINIFRED G AND EDDIE G												
10*19893		5-11-18	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 13030													-		
									1						
10*21041	u	5-11-18	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19176	КК	5-11-19	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	кк	5-11-19	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	504	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
10 19177	<u> </u>	5-11-15			1/0+	110	334		170		140		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19185	КК	5-11-19	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
						1							735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
						ļ							USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19186	КК	5-11-19	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
											11/4	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH
10*19187	КК	5-11-19	DAVID E GRAY	GASTAR EXPLORATION USA INC	1/8+	1710	610	N/A	N/A	N/A	N/A	IN/A	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	Exploration, LLC
						1							USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19189	кк	5-11-19	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
	<u> </u>	5-11-15			1 × × ×	+					<u> </u>		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	1 · ·	40/127 Chevron USA Inc. to TH
10*19190	кк	5-11-19	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
	1												735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
										.	.		USA, Inc to Atinum Marcellus I	· ·	40/127 Chevron USA Inc. to TH
10*19191	КК	5-11-19	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
						1	I I						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/127 Chausen Life Inc
					10				N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19192	КК	5-11-19	JAMES E YOHO	GASTAR EXPLORATION USA INC	1 1/8+	/14	129		[PVA	INVA	117A	1040	1	Terretron operate	

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*19201	кк	5-11-19	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	735/263 Gastar Exploration USA, Inc to Atinum Marcellus I LLC	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcelius I LLC, to	40/127 Chevron USA Inc. to TH
10*19202	КК	5-11-19	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	кк	5-11-19	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	ແຕ່	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19204	кк	5-11-19	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
10*19205	кк	5-11-19	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	202	N1/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10 15205		<u> </u>		GASTAR EXPLORATION USA INC	1/07	1/15	205							32/362 Gastar Exploration Inc.	
						1							26/639 Gastar Exploration USA,		40/127 Chevron USA Inc. to TH
10*19251	KK	5-11-19	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
													26/639 Gastar Exploration USA,	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	КК	5-11-19	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
10*19502	кк	5-11-19	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19893	кк	5-11-19	WINIFRED G AND EDDIE G	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
						1									
10*21041	кк										N/A	N/A	N/A	N/A	N/A
10-21041	KK	5-11-19	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A			
			LIMITED LIABILITY LIMITED												
10*18722	u	5-11-20	PARTNERSHIP	TH EXPLORATION LLC	1/8+	938	523	N/A	N/A	N/A	N/A	N/A	N/A 735/263 Gastar Exploration	N/A 32/362 Gastar Exploration Inc.	N/A
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	u	5-11-20	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	шс	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA inc. to TH
10*19177	LL	5-11-20	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
						1							735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
10*19185	u	5-11-20	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	508	N/4	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10 15105		5 11 20		CADITAL EXI CONTINUE OF BALLE	1/01	1/10	330			0/0			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH Exploration, LLC
10*19186	<u>u</u>	5-11-20	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	735/263 Gastar Exploration	Chevron USA Inc 32/362 Gastar Exploration Inc.	Exploration, LLC
						1							USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	
10*19187	u	5-11-20	DAVID E GRAY	GASTAR EXPLORATION USA INC	1/8+	710	610	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration USA, Inc to Atinum Marcellus I	32/362 Gastar Exploration Inc. and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19189	u	5-11-20	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A	ແຕ	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	40/127 Chauron 1154 Inc. 4- 711
10*19190	u	5-11-20	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	USA, Inc to Atinum Marcellus I LLC	and Atinum Marcellus I LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
						1	1.22						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19191	<u> </u>	5-11-20	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC

Operator's Well No. <u>Bryan N - 13HU</u>

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
	1				<u> </u>								735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
									1				USA, inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19192	u	5-11-20	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	ແຕ່	Chevron USA Inc	Exploration, LLC
						114	11.5		010				735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
					1		1				1		USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19201	u	5-11-20	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	1	uc	Chevron USA Inc	Exploration, LLC
					1/07	/14	123	170	140	170			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	1
					ļ								• •	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19202		5-11-20	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	121	N/A	N/A	N/A	N/A	1		Chevron USA Inc	Exploration, LLC
	- "···	5-11-20		GASTAR EXPLORATION USA INC.	1/07	/14	151		N/A		176	175	735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	L LL	5-11-20	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	712	205	N/A	N/A	N/A	N/A	N/A	LIC	Chevron USA Inc	Exploration, LLC
10 10200		51120		GASTAR EXPECTATION OSA INC	1/07	113	203	178	10/6	11/0	0/0		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
								1					USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA inc. to TH
10*19204	LL	5-11-20	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	1.77	a./a	N/A	N/A	N/A			Chevron USA Inc	Exploration, LLC
10 13204	<u> </u>	5-11-20	DATINA WARLENE TOHO	GASTAR EXPLORATION USA INC	1/8+	714	12/	N/A	N/A	N/A	IN/A		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
														and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19205	l u l	E 11 20	USESTREY C YOUO										USA, Inc to Atinum Marcellus I	Chevron USA Inc	Exploration, LLC
10-19205	<u> </u>	5-11-20	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A			
									1				20/020 Caster Fundametica UCA	32/362 Gastar Exploration Inc.	40/127 Chauses LISA las As Th
	1											1	26/639 Gastar Exploration USA	and Atinum Marcellus I LLC, to	
10*19251	u	5-11-20	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
														and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	u	5-11-20	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
)							1.				
10*19502		5-11-20	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
						1									
			WINIFRED G AND EDDIE G						1					1	
10*19893	u	5-11-20	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
															1
						1 1				1.					
10*21041	u	5-11-20	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
									1						962/488 HG Energy II
												34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	Appalachia, LLC to TH
Q088586011	мм	5-11-21	KAREN SUE CLYDE REED	NOBLE ENERGY, INC	1/8+	864	190	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	
											1				962/488 HG Energy II
			GENIE SUE THOMAS AND JOHN									34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	Appalachia, LLC to TH
Q088586003	мм	5-11-21	L HOLMES	NOBLE ENERGY, INC	1/8+	848	204	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	
									}						962/488 HG Energy II
			BRENDA FAYE AMD THOMAS									34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	Appalachia, LLC to TH
Q088586010	MM	5-11-21	PETRACK	NOBLE ENERGY, INC	1/8+	850	161	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	
															962/488 HG Energy II
		_	GAIL ANN YATES AND WESLEY J								1.	34/167 Noble Energy Inc to CNX			
Q088586002	MM	5-11-21	WOOD	NOBLE ENERGY, INC	1/8+	848	208	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	
															962/488 HG Energy II
	I I		SHIRLEY YATES AND FREDDIE								1.	34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	Appalachia, LLC to TH
Q088586005	мм	5-11-21	LEE HARTSELL	NOBLE ENERGY, INC	1/8+	848	212	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	
															962/488 HG Energy II
			BOYD DAIL JR AND MARLA									34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	
Q088586004	MM	5-11-21	YATES	NOBLE ENERGY, INC	1/8+	848	210	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	
															962/488 HG Energy II
												34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	
Q088586001	MM	5-11-21	GUY YATES	NOBLE ENERGY, INC	1/8+	848	206	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	Exploration, LLC
	I									1					962/488 HG Energy II
			REBEKAH DRAYER AND				'					34/167 Noble Energy Inc to CNX	37/169 CNX Gas Company LLC	38/297 Noble Energy, Inc. to HG Energy II Appalachia, LLC	

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
·															962/488 HG Energy II
							1			ļ		34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	Appalachia, LLC to TH
Q088586008	MM	5-11-21	BOYD BUESKING	NOBLE ENERGY, INC	1/8+	850	159	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	Exploration, LLC
															962/488 HG Energy II
			CHRISTA DRAYER AND JOSHUA									34/167 Noble Energy Inc to CNX		38/297 Noble Energy, Inc. to	Appalachia, LLC to TH
Q088586009	ММ	5-11-21	STALEY	NOBLE ENERGY, INC	1/8+	851	3	N/A	N/A	N/A	N/A	Gas Company LLC	to Noble Energy Inc	HG Energy II Appalachia, LLC	Exploration, LLC
	1												735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
			1										USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19176	NN	5-11-5.2	MAUNA MAXINE BEYSER	GASTAR EXPLORATION USA INC	1/8+	710	602	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
1	1			1									735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19177	NN	5-11-5.2	NINA L KOVACS	GASTAR EXPLORATION USA INC	1/8+	710	594	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19185	NN	5-11-5.2	HARRIETT LODUTH FOLEY	GASTAR EXPLORATION USA INC	1/8+	710	598	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
				1									735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19186	NN	5-11-5.2	JOEL GLOVER	GASTAR EXPLORATION USA INC	1/8+	710	600	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
											1		735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19189	NN	5-11-5.2	SHERRY ANN MCPHERON	GASTAR EXPLORATION USA INC	1/8+	710	606	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19190	NN	5-11-5.2	SALLY LEE RIVERA	GASTAR EXPLORATION USA INC	1/8+	710	590	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19191	NN	5-11-5.2	SHARLA BETH WEAVER	GASTAR EXPLORATION USA INC	1/8+	710	608	N/A	N/A	N/A	N/A	N/A	uc	Chevron USA Inc	Exploration, LLC
	1												735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
							ļ					1.	USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19192	NN	5-11-5.2	JAMES E YOHO	GASTAR EXPLORATION USA INC	1/8+	714	129	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
													735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
										1.			USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19201	NN	5-11-5.2	DANIEL K YOHO	GASTAR EXPLORATION USA INC	1/8+	714	125	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
									1				735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
	I I						1						USA, Inc to Atinum Marcellus I		
10*19202	NN	5-11-5.2	DEBORAH L WOOLEY	GASTAR EXPLORATION USA INC	1/8+	714	131	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
ĺ						1			1				735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
													USA, Inc to Atinum Marcellus I	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19203	NN	5-11-5.2	CAROL M YOHO	GASTAR EXPLORATION USA INC	1/8+	713	205	N/A	N/A	N/A	N/A	N/A	LLC	Chevron USA Inc	Exploration, LLC
										-			735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	
				i									USA, Inc to Atinum Marcellus I		40/127 Chevron USA Inc. to TH
10*19204	NN	5-11-5.2	DAYNA MARLENE YOHO	GASTAR EXPLORATION USA INC	1/8+	714	127	N/A	N/A	N/A	N/A	N/A		Chevron USA Inc	Exploration, LLC
							1						735/263 Gastar Exploration	32/362 Gastar Exploration Inc.	10/107 Characteristics
10810305		F 44 F 0										11/4	USA, Inc to Atinum Marcellus I		
10*19205	NN	5-11-5.2	JEFFREY C YOHO	GASTAR EXPLORATION USA INC	1/8+	713	203	N/A	N/A	N/A	N/A	N/A	цс	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	10/107 Ch
													26/639 Gastar Exploration USA		40/127 Chevron USA Inc. to TH
10*19251	NN	5-11-5.2	RAE SUZETTE BAKER	GASTAR EXPLORATION USA INC	1/8+	748	315	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
														32/362 Gastar Exploration Inc.	
10110000													26/639 Gastar Exploration USA	and Atinum Marcellus I LLC, to	40/127 Chevron USA Inc. to TH
10*19252	NN	5-11-5.2	JOHN WILSON	GASTAR EXPLORATION USA INC	1/8+	749	522	N/A	N/A	N/A	N/A	N/A	Inc to Atinum Marcellus I LLC	Chevron USA Inc	Exploration, LLC
								Ι.	.	1.					
10°19502	NN	5-11-5.2	SUSAN BLANCHE BEYSER	TH EXPLORATION LLC	1/8+	942	623	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
							i i								
l			WINIFRED G AND EDDIE G				I I		1		1.				
10*19893	NN	5-11-5.2	TURNER	TH EXPLORATION, LLC	1/8+	948	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
10*21041	NN	5-11-5.2	SHERY AND RANDEN RITCHEA	TH EXPLORATION, LLC	1/8+	949	365	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21224	NN	5-11-5.2	RICKEY LYNN CROSS & VICTORIA ROSE CROSS	TH EXPLORATION LLC	1/8+	939	589	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			HIRAMS ESTATE FAMILY										-	····	
10*18722	00	5-11-3	LIMITED LIABILITY LIMITED PARTNERSHIP	TH EXPLORATION LLC	1/8+	938	6.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 10/11		5-11-5			1/07	930	323			N/6					
10*19126	00	5-11-3	KEVIN R. CORLEY AND ANITA L.										N/A	N/A	40/127 Chevron USA Inc. to TH Exploration, LLC
10-19126	0	5-11-3	CORLEY, HUSBAND AND WIFE	CHEVRON USA INC	1/8+	859	47	N/A	N/A	N/A	N/A	N/A	N/A		Exploration, LLC
			WALTER C. RINE AND CHERYL												40/127 Chevron USA inc. to TH
10*19127	PP	5-11-2	ANN RINE	CHEVRON USA INC	1/8+	859	49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration, LLC
			WALTER C. RINE AND CHERYL				ļ								40/127 Chevron USA Inc. to TH
10*19127	QQ	5-11-2.2	ANN RINE	CHEVRON USA INC	1/8+	859	49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration, LLC
			WALTER C. RINE AND CHERYL												40/127 Chevron USA Inc. to TH
10*19127	RR	5-11-2.1	ANN RINE	CHEVRON USA INC	1/8+	859	49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration, LLC
															40/127 Chevron USA Inc. to TH
10*19164	RR	5-11-2.1	KATHERINE A STALNAKER	CHEVRON USA INC	1/8+	839	486	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration, LLC
															40/127 Chevron USA Inc. to TH
10*19169	RR	5-11-2.1	DANIEL L RINE	CHEVRON USA INC	1/8+	839	260	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Exploration, LLC
10*47051.089.0	SS	5-11-1.1	LARRY W DUNLAP AND BARBARA E DUNLAP	TH EXPLORATION LLC	1/8+	864	148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19167	π	5-11-1.2	JAY A CONNER PATTY LOUISE CONNER	CHESAPEAKE APPALACHIA LLC	1/8+	724	156	N/A	N/A	N/A	N/A	N/A	NA	30/392 Chesapeake Appalachia, LLC, to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
					1/0+	724	130								
10*19219		5-8-9.1	SCOTT E AND TAMMY SUE										25/449 TriEnergy Holdings LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10, 19518	υυ	5-8-9.1	JACKSON	TRIENERGY HOLDINGS, LLC	1/8+	731	102	N/A	N/A	N/A	N/A	N/A	to NPAR, LLC	USA me	Exploration, ECC
			JAMES B JACKSON JR AND												
10*47051.105.0	w	5-8-9	MARION L JACKSON	TH EXPLORATION LLC	1/8+	859	478	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
							Į							30/392 Chesapeake Appalachia	
10*19168	ww	5-11-1.5	PAUL AND SANDY WHITT	CHESAPEAKE APPALACHIA LLC	1/8+	715	565	N/A	N/A	N/A	N/A	N/A	N/A	LLC, to Chevron USA Inc	Exploration, LLC
			JAY A CONNER PATTY LOUISE				1							30/392 Chesapeake Appalachia	40/127 Chevron USA Inc. to TH
10*19167	XX	5-11-1.3	CONNER	CHESAPEAKE APPALACHIA LLC	1/8+	724	156	N/A	N/A	N/A	N/A	N/A	N/A	LLC, to Chevron USA Inc	Exploration, LLC
			LARRY W DUNLAP AND												
10*47051.089.0	YY	5-11-1.4	BARBARA E DUNLAP	TH EXPLORATION LLC	1/8+	864	148	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
												24/167 Nabla Engine Inc. 47 Child	27/160 CNV Gas Company 11 C	28/207 Noble Freeries Inc. 4-	962/488 HG Energy II Appalachia, LLC to TH
Q075705000	22	5-11-1.6	DEBRA MORRIS	NOBLE ENERGY, INC	1/8+	797	617	N/A	N/A	N/A	N/A	34/167 Noble Energy inc to CNX Gas Company LLC	to Noble Energy Inc	38/297 Noble Energy, Inc. to HG Energy II Appalachia, LLC	
								·····			L		25/105 Chief Exploration &		
											24/466 AB Resources LLC and	25/1 Chief Exploration & Development, LLC, Chief Oil and	Development, LLC, Chief Oil & Gas, LLC, Radler 2000 Limited		
						l					NPAR LLC to Chief Exploration	Gas, LLC, Radler 2000 Limited	Partnership and Enerplus		
10*19174	AAA	5-11-1.7	WILLIAM S ADAMS MARY K ADAMS	TRIENERGY HOLDINGS, LLC	1/0.	744		N/A	N/A	24/430 TriEnergy Holdings, LLC to NPAR, LLC	& Development, LLC and Radler 2000 Limited Partnership	Partnerhsip and Enerplus Resources to Chevron USA Inc	Resources (USA) Corporation to Chevron USA Inc.	756/332 NPAR LLC to Chevron USA Inc	40/127 Chevron USA Inc. to TH Exploration, LLC
10-191/4	AAA	5-11-1.7	ADAMS	I KIENERGY HOLDINGS, LLC	1/8+	711	318	N/A	N/A	to NPAR, LLC	2000 Limited Partnership	Resources to Chevron USA Inc	Chevron USA Inc.	USA INC	Exploration, LLC

WW-6A1 Supplement

Lease No.	Tags	Parcel	Lessor	Lessee	Roylaty	Book	Pg	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment
						1					1	25/582 Chesapeake Appalachia,	•		
			RANDYLYN MOORE LINDA G								LLC tol Statolil USA Onshore	LLC to Statoil USA Onshore	30/392 Chesapeake Appalachia,		40/127 Chevron USA Inc. to TH
10*19173	BBB	5-11-1	MOORE	CHESAPEAKE APPALACHIA LLC	1/8+	717	46	N/A	N/A	N/A	Properties, Inc	Properties, Inc	LLC, to Chevron USA Inc	Properties, Inc to Chevron USA	Exploration, LLC
											24/204 Chesapeake Appalachia,	25/582 Chesapeake Appalachia,			
				1		1					LLC tol Statolil USA Onshore	LLC to Statoil USA Onshore	30/392 Chesapeake Appalachia,	30/404 Statoil USA Onshore	40/57 Chevron USA Inc to TH
10°19184	BBB	5-11-1	RANDI L PECK	CHESAPEAKE APPALACHIA LLC	1/8+	719	26	N/A	N/A	N/A	Properties, Inc	Properties, Inc	LLC, to Chevron USA Inc	Properties, Inc to Chevron USA	Exploration LLC

*** Force pool interest

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STATE OF WEST VIRGINIA §

COUNTY OF MARSHALL

Harshall County Jan Pest, Elerk Instrument 1428355 08/16/2017 @ 12:00:49 PH ASSIENBENIS Book 40 @ Pase 127 Pases Recorded 25 Recording Cost \$ 33.00

.. :

THIS ASSIGNMENT AND CONVEYANCE (the "<u>Assignment</u>") is made and entered into this <u>day</u> of <u>August</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.

ASSIGNMENT AND CONVEYANCE

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 Assignce 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:

 <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 Comell 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

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April 6, 2018

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

RE: Bryan N-13HU

Subject: Road Crossing Letter

Dear Laura:

Tug Hill Operating, LLC will not be drilling, extracting or producing any minerals under any WV County or State Routes in the area reflected on the Bryan N-13HU well plat.

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

Sincerely,

Amy L. Miller Permitting Specialist – Appalachia Region

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

Date of Notice Certification: 04/06/2018

API No. 47- 051	-	02030
Operator's Well N	No. Brya	an N-13HU
Well Pad Name:	Bryan	

Notice has been given:

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

State:	West Virginia	UTM NAD 83	Easting:	519,138.53	
County:	Marshall	UTM NAD 83	Northing:	4,402,887.17	
District:	Franklin	Public Road Acc	cess:	Rines Ridge Road	
Quadrangle:	Powhatan Point 7.5'	Generally used f	arm name:	CNX Land Resources, Inc.	
Watershed:	Fish Creek (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 successful tender by the applicant.

Pursuant to West Virginia Code § 22-6A, the Ope that the Operator has properly served the required *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification I parties with the following:	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
2. NOTICE OF ENTRY FOR PLAT SURV	EY or 🔲 NO PLAT SURVEY WAS CONDUCTED	RECEIVED
□ 3. NOTICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas	□ RECEIVED
5. PUBLIC NOTICE	APR 9 2018	□ RECEIVED
■ 6. NOTICE OF APPLICATION	WV Department of Environmental Protection	□ 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.

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Amy L. Miller 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:	Permit Specialist - Appalachia	Facsimile:	724-338-2030
Telephone:	724-749-8388	Email:	amiller@tug-hillop.com
CEC	MMONWEOLITH OF RENNEYLVANIA NOTARIAL SEAL MAUREEN A STEAD Notary Public CIL TWP, WASHINGTON COUNTY Commission Expires Jan 28, 2019	ibed and swo mmission E	11.01.11

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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APINO. 47-51-02030	
OPERATOR WELL NO. Bryan N-13HU	
Well Pad Name: Bryan	

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: 4/6/2018 Date Permit Application Filed: 4/8/2018

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

\checkmark	PERMIT FOR ANY	
	WELL WORK	

CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

PERSONAL	REGISTERED	\checkmark	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) Name: CNX Land Resources, Inc. (Pad) Address: 1000 Consol Energy Drive	COAL OWNER OR LESSEE Name: Leatherwood, Inc. Address: 1000 Consol Energy Drive	RECEIVED
Canonsburg, PA 15317	Canonsburg, PA 15317-6506	_ APR 9 2018
Name: Greg and Christina Riddle (Road)	COAL OPERATOR	
Address: 4205 Rines Ridge Road		W Department of
Proctor, WV 26055	Address: E	WV Department of nvironmental Protection
SURFACE OWNER(s) (Road and/or Other Disturbance)		
Name: Ray E. and Katherine L. Minor	SURFACE OWNER OF WATER WELL	-
Address: 4193 Rines Ridge Road	AND/OR WATER PURVEYOR(s)	
Proctor, WV 26055	Name: *See attached sheet	
Name: Michael R. Bryan *see attached list	Address:	-
Address: 195 Isaiah Drive		-
Proctor, WV 26055	OPERATOR OF ANY NATURAL GAS STOP	AGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	-
Address:		-
	*Please attach additional forms if necessary	-

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WV Department of Environmental Protection API NO. 47- <u>51</u> - <u>D</u> 2030 OPERATOR WELL NO. Bryan N-13HU Well Pad Name: Bryan

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental 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 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. (c) 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



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WV Department of Environmental Protection API NO. 47-<u>51</u>-<u>02030</u> OPERATOR WELL NO. Bryan N-13HU Well Pad Name: Bryan

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

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. 47-51-030 OPERATOR WELL NO. Bryan N-13HU Well Pad Name: Bryan

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

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

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WW-6A (8-13)

API NO. 47- 51 - 0	2030
OPERATOR WELL NO.	Bryan N-13HU
Well Pad Name: Bryan	

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

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MAURI	EEN A S	STEAD	
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CECIL TWP, W	ASHING	TON CO	UNTY
My Commission	- Evnire	s.Jan 28	. 2019

Subscribed and sworn before m	e this 6 day of	APR12 2018.
Maurena	Heard	Notary Public
My Commission Expires	1/28/19	7

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WV Departmot/07/2018 Environmental Potection

Operator Well No. Bryan N-13HU

WW-6A Notice of Application

Attachment 1 of 1

Surface Owner(s) Road and Other Disturbances:

Name: Brenda K. Bryan Address: 1971 Rines Ridge Road Proctor, WV 26055

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WW-6A

Supplement Pg. 1A

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

WATER WELL REPORT

Well:BRYAN No. N-13HUDistrict:FranklinCounty:MarshallState:WV

There appears to be Five (5) possible water sources within 2,000 feet of the above referenced well location.

Topo spot #1 (Possible Spring) TM 15 Par.6 Joseph & Joann Kramer 304-845-0896 3303 Rines Ridge Rd. Proctor, WV 26055	Topo Spot # 2 (Spring) TM 15 Par. 9 CNX Land Resources, LLC 724-485-4000, 713-893-4476 1000 Consol Energy Dr. Canonsburg, PA 15317	Topo Spot # 3 (Water Well) TM 16 Par. 23 CNX Land Resources, LLC 724-485-4000, 713-893-4476 1000 Consol Energy Dr. Canonsburg, PA 15317
Topo Spot # 4 (Water Trough) TM 16 Par. 23 CNX Land Resources, LLC 724-485-4000, 713-893-4476 1000 Consol Energy Dr. Canonsburg, PA 15317	Topo Spot # 5 (Water Trough) TM 15 Par. 9 CNX Land Resources, LLC 724-485-4000, 713-893-4476 1000 Consol Energy Dr. Canonsburg, PA 15317	

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RECEIVED Office of Oil and Gas	51-02030
APR 9 2018	
WW-6A WV Department of PROPOSED	SUPPLEMENT PG 1
BRYAN N-13H	IU
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2,000' radius N-13HU	5 #3
Carl Carl Charles	#3
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	ROA
	19 6
OPERATOR 494510851	TOPO SECTION LEASE NAME
TUG HILL TUG HILL OPERATING, LLC	POWHATAN POINT 7.5' BRYAN
OPERATING SUITE 200 CANONSBURG, PA 15317	BCALE: DATE: 1" = 1000' DATE: 12/12/17

09/07/2018

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 entry

 Date of Notice:
 B/10/2017
 Date of Planned Entry:
 B/17/2017

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

PERSONAL	REGISTERED	12	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL		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:

COAL OWNER OR LESSEE	Office of Oil and Gas
Name: Leatherwood, Inc.	APR 9 2018
Address: 1000 Consol Energy Drive	ALIX 0 2010
Canonsburg, PA, 15317-6506	Wh/ Department of
	WV Department of Environmental Protection
MINERAL OWNER(s)	
Name: Greg and Christina Riddle	
Address: 4205 Rines Ridge Road	
Proctor, WV 26055	
*please attach additional forms if necessary	
	Name: Leatherwood, Inc. Address: 1000 Consol Energy Drive Canonsburg, PA 15317-6506 Image: MINERAL OWNER(s) Name: Greg and Christina Riddle Address: 4205 Rines Ridge Road Proctor, WV 26055 1000 Consol Energy Drive

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:	39.7756312; -80.7766011
County:	Marshall	Public Road Access:	Rines Ridge Road (County Route 76)
District:	Franklin	Watershed:	(HUC-10) Fish Creek
Quadrangle:	Powhatan Point	Generally used farm name:	Michael and Brenda Bryan

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

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

Oil and Gas Privacy Notice:

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

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Operator Well No. Bryan N-13HU

WW-6A3 Notice of Entry for Plat Survey

Attachment 1 of 1

Surface Owner(s):

Name: Greg and Christina Riddle Address: 4205 Rines Ridge Road Proctor, WV 26055

Mineral Owner(s):

Name: Ray E. and Katherine L. Minor Address: 4193 Rines Ridge Road Proctor, WV 26055

Name: Michael R. Bryan Address: 195 Isaiah Drive Proctor, WV 26055

Name: Brenda K. Bryan Address: 1971 Rines Ridge Road Proctor, WV 26055

Name: Wesley Russell Bryan II Address: P.O. Box 1107 Sunbury, OH 43074

Name: Appalachian Energy Holdings I, LP Address: 14 Dunmoyle Place Pittsburgh, PA 15217

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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:
 04/06/2018

 Date Permit Application Filed:
 04/08/2018

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: CNX Land Resources, Inc.	Name: Ray E. and Katherine L. Minor
Address: 1000 Consol Energy Drive	Address: 4193 Rines Ridge Road
Canonsburg, PA 15317	Proctor, WV 26055 *See attached sheet

Notice is hereby given:

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

State:	West Virgnia	Easting:	519,138.53
County:	Marshail	- UTM NAD 83 Northing:	4,402,877.17
District:	Franklin	Public Road Access:	Rines Ridge Road
Quadrangle:	Powhatan Point 7.5'	Generally used farm name:	CNX Land Resources, Inc.
Watershed:	Fish Creek (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.com	Facsimile:	724-338-2030

Oil and Gas Privacy Notice:

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APR 9 2018

Operator Well No. Bryan N-13HU

WW-6A5 NOTICE OF PLANNED OPERATION

ATTACHMENT 1 OF 1

Surface Owner(s):

Greg and Christina Riddle 4205 Rines Ridge Road Proctor, WV 26055

Michael R. and Brenda K. Bryan 195 Isaiah Drive Proctor, WV 26055

Brenda K. Bryan 1971 Rines Ridge Road Proctor, Wv 26055

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APR 9 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110

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

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

September 7, 2017

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

Subject: DOH Permit for the Bryan Pad, Marshall County Bryan N-13HU Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0528 which has been issued to Tug Hill Operating, LLC for access to the State Road for a well site located off of Marshall County Route 76 SLS.

The operator has signed a STATEWIDE 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,

my K. Clayton

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

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

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PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Bryan N-13HU			
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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