



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

Monday, September 21, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for HUDSON S-13HU
47-051-02293-00-00

Extended Lateral

TUG HILL OPERATING, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: HUDSON S-13HU
Farm Name: CNX LAND LLC
U.S. WELL NUMBER: 47-051-02293-00-00
Horizontal 6A New Drill
Date Modification Issued: 9/18/2020

Promoting a healthy environment.



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-414-1239

Randall M. Albert, Chairman
dep.wv.gov

August 26, 2020

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

RE: Application for Deep Well Permit – API #47-051-02293 Modification

COMPANY: Tug Hill Operating, LLC

FARM: CNX Land, LLC Hudson S-13HU

COUNTY: Marshall DISTRICT: Meade QUAD: Glen Easton

The deep well review of the application for the above company is **Approved to drill to Trenton for Point Pleasant completion.**

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? Yes; objection has been withdrawn
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: **yes
4. Provided a plat showing that the productive interval of the well meets the requirements of the Rules of the Commission W. Va. C.S.R. § 39-1-4.2.

Sincerely,

A handwritten signature in blue ink that reads 'Susan Rose'. The signature is fluid and cursive, written over a white background.

Susan Rose
Administrator

** Hudson S-12HU 47-051-02292; Hudson S-11HU 47-051-02296; Ten High 1N-20HU 47-051-02021, Ten High 1N-13HU 47-051-01965; Ten High 1S-17HU 47-051-02033; Fitzgerald S-18HU 47-051-02325; Fitzgerald S-19HU 47-051-02326



4705102293

west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-414-1239

Randall M. Albert, Chairman
dep.wv.gov

April 7, 2020

Chevron USA Inc.
700 Cherrington Pkwy
Coraopolis PA 15108

9489 0090 0027 6201 4367 05

RE: Intentional Deviation of New Deep Well
Tug Hill Operating, LLC – Hudson S-13HU

Dear Sir and Ma'am:

Please be advised that Tug Hill Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate a new deep well. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed well. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

A copy of the location plat is enclosed for your review. If no objection(s) are received within ten 10 days from the date of delivery, the application will be processed in the normal manner.

If you have any questions please call me at (304) 414-1239.

Sincerely,

A handwritten signature in black ink that reads 'Susan Rose' in a cursive, flowing script.

Susan Rose
Administrator

encl:



4705102293

April 30, 2020

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: **9489 0090 0027 6201 4367 05.**

Item Details

Status: Delivered, Left with Individual
Status Date / Time: April 13, 2020, 1:43 pm
Location: CORAOPOLIS, PA 15108
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7lb, 7.4oz

Recipient Signature

Signature of Recipient:	JL 4/13/20
Address of Recipient:	708 CARRINGTON 15104

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Sincerely,
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Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-414-1239

Randall M. Albert, Chairman
dep.wv.gov

April 7, 2020

CNX Gas Company
1000 Consol Energy Dr
Canonsburg PA 15317

9489 0090 0027 6201 4367 12

RE: Intentional Deviation of New Deep Well
Tug Hill Operating, LLC – Hudson S-13HU

Dear Sir and Ma'am:

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Sincerely,

Susan Rose
Administrator

encl:



4705102293

April 30, 2020

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number:
9489 0090 0027 6201 4367 12.



Item Details

Status: Delivered, Left with Individual
Status Date / Time: April 13, 2020, 10:56 am
Location: CANONSBURG, PA 15317
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7lb, 7.5oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

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Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-414-1239

Randall M. Albert, Chairman
dep.wv.gov

April 7, 2020

TH Exploration, LLC
1320 S. University Dr Ste 500
Ft Worth TX 76107

9489 0090 0027 6201 4366 99

RE: Intentional Deviation of New Deep Well
Tug Hill Operating, LLC – Hudson S-13HU

Dear Sir or Ma'am:

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If you have any questions please call me at (304) 414-1239.

Sincerely,

Susan Rose
Administrator

encl:



4705102293

April 30, 2020

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number:
9489 0090 0027 6201 4366 99.


Item Details

Status: Delivered, Front Desk/Reception/Mail Room
Status Date / Time: April 14, 2020, 12:41 pm
Location: FORT WORTH, TX 76107
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7lb, 7.6oz

Recipient Signature

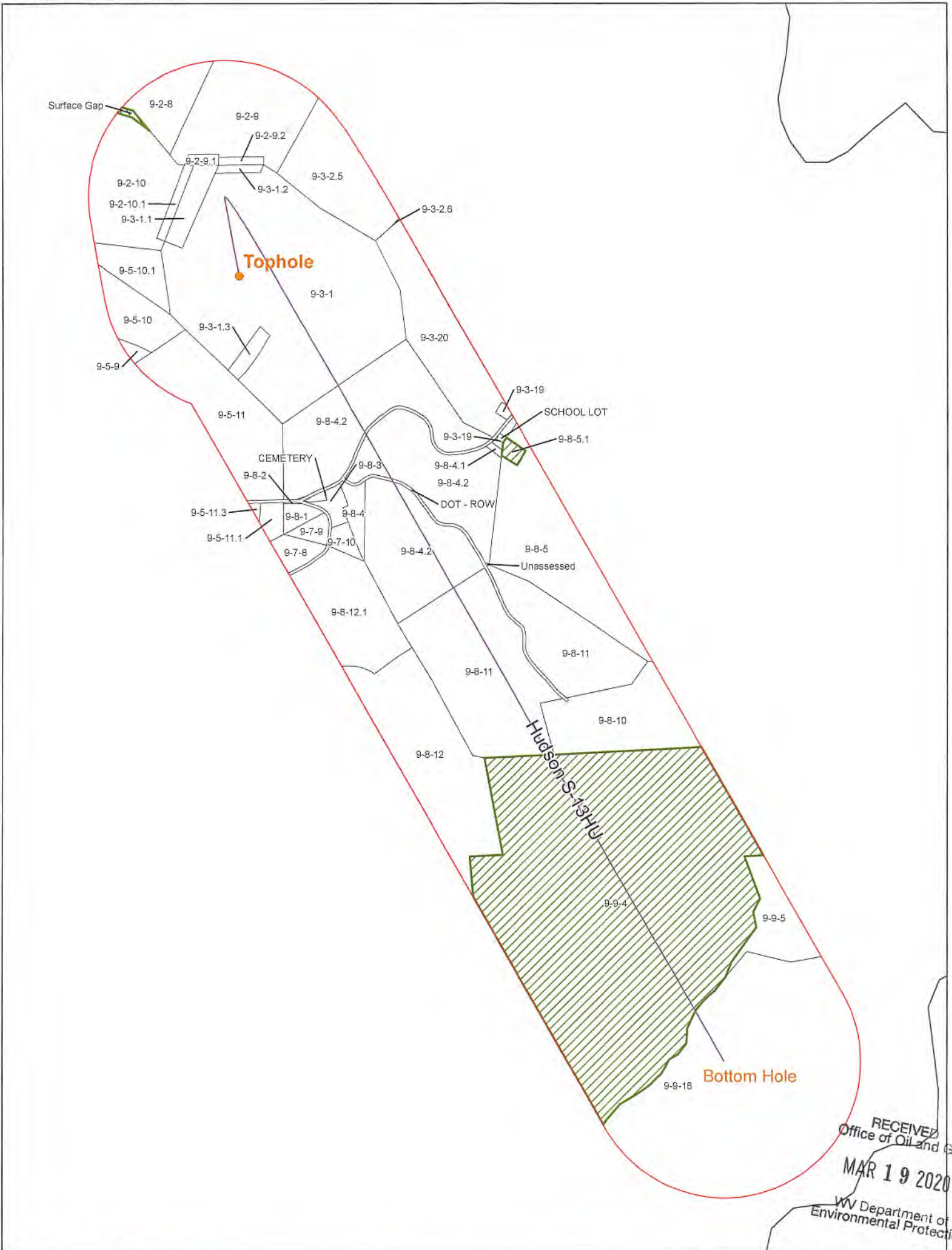
Signature of Recipient:	
Address of Recipient:	JB Rt # 711 Covid-19 1320 S University # 500 76107

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Hudson S-13HU



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Coordinate System: NAD 83 UTM Zone 17N
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 1500000.000000
False Northing: 5000000.000000
Central Meridian: -81.000000
Scale Factor: 0.999999
Latitude Of Origin: 0.000000
Units: Feet US

CONFIDENTIAL



- 1500 Foot Buffer
- Surface Overlap
- Force Pool

Hudson S-13HU
Operators within 1500 Feet of Well Borehole



4705102293

MARSHALL	MEADE	9-5-11.1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-5-11.3 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-8 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-9 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-7-10 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-2 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-3 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-4 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-4.1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-4.2 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-5 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-5.1 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-8-10 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-11 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-12 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-8-12.1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-9-4 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-9-5 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-9-16 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107

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Offset Operators within 1500' Hudson S - 13HU				
County	District	Parcel	Owner	Address
MARSHALL	MEADE	9-2-8 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-2-9 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-2-9.1 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-2-9.2 ✓	CNX GAS COMPANY	1000 Consol Energy Drive Canonsburg, PA 15317
MARSHALL	MEADE	9-2-9.2 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-2-10 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-2-10.1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-1.1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-1.1 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-3-1.2 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-1.2 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-3-1.2 ✓	CNX GAS COMPANY	1000 Consol Energy Drive Canonsburg, PA 15317
MARSHALL	MEADE	9-3-1.3 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-2.5 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-2.6 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-3-19 ✓	CHEVRON USA INC	700 Cherrington Pkwy Moon, PA 15108
MARSHALL	MEADE	9-3-20 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-5-9 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-5-10 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-5-10.1 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107
MARSHALL	MEADE	9-5-11 ✓	TH EXPLORATION LLC	1320 S. University Blvd. Suite 500 Fort Worth, TX 76107

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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 Meade Glen Easton 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Hudson S-13HU Well Pad Name: Hudson

3) Farm Name/Surface Owner: CNX Land, LLC Public Road Access: Roberts Ridge Road (CR 21)

4) Elevation, current ground: 1370' Elevation, proposed post-construction: 1344.81'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow _____ Deep

Horizontal

ju 3/11/2020

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Point Pleasant is the target formation at a depth of 11,674' - 11,807' - thickness of 133' and anticipated pressure of approx. 9500 psi.

8) Proposed Total Vertical Depth: 11,957'

9) Formation at Total Vertical Depth: Trenton, plug back to Reedsville

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10) Proposed Total Measured Depth: 22,351'

MAR 19 2020

11) Proposed Horizontal Leg Length: 10,150.66'

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Environmental Protection

12) Approximate Fresh Water Strata Depths: 70' ; 978'

13) Method to Determine Fresh Water Depths: Offset well reports or noticeable flow at the flowline or when need to start soaping

14) Approximate Saltwater Depths: 2,167'

15) Approximate Coal Seam Depths: Sewickley Coal - 886' ; Pittsburgh Coal - 972'

16) Approximate Depth to Possible Void (coal mine, karst, other): none

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No _____

(a) If Yes, provide Mine Info: Name: Marshall County Coal Co./Marshall County Mine
Depth: 1059' TVD and 291' subsea level
Seam: Pittsburgh #8
Owner: Murray Energy / Consolidated Coal Co.

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	1070'	1070'	1,719FT^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2840'	2840'	2,002FT^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,580'	10,580'	3,452FT^3(CTS)
Production	5 1/2"	NEW	P110	23#	22,351'	22,351'	5,300FT^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,248'	
Liners							

JM 9/17/2020

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (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	16,510	10,864	SEE #24	1.18
Tubing	2 7/8"			11,385 <i>KL</i>	11,624 <i>KL</i>		
Liners				11624	11385		

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PACKERS

SEP 17 2020

Kind:	N/A		WV Department of Environmental Protection	
Sizes:	N/A			
Depths Set:	N/A			

WW-6B
(10/14)

API NO. 47- 051 - _____

OPERATOR WELL NO. Hudson S-13HU

Well Pad Name: Hudson

pu
3/11/2020

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 (10,748'). 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 25,372,500 lb proppant and 392,277 bbl of water. Max rate = 80 bpm; max psi = 12,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.94 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.18 acres

23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate will have 1 centralizer every 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

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MAR 19 2020

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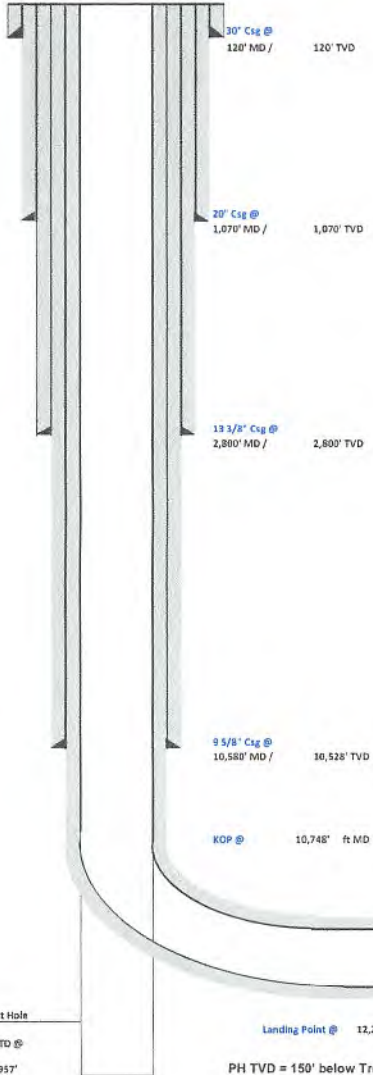
25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.



WELL NAME: Hudson S-13HU
 STATE: WV COUNTY: Marshall
 DISTRICT: Meade
 DF Elev: 1,344' GL Elev: 1,344'
 TD: 22,351'
 TH Latitude: 39.828667
 TH Longitude: -80.672718
 BH Latitude: 39.805044
 BH Longitude: -80.653789



FORMATION TOPS	
Formation	Depth TVD
Deepest Fresh Water	978'
Sewickley Coal	886'
Pittsburgh Coal	972'
Big Lime	2,123'
Berea	2,741'
Tully	6,687'
Marcellus	6,800'
Onondaga	6,852'
Selina	7,575'
Lockport	8,584'
Utica	11,406'
Point Pleasant	11,674'
Landing Depth	11,724'
Trenton	11,807'
Pilot Hole TD	11,957'

CASING SUMMARY							
Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	36	30	120'	120'	BW	BW	Surface
Surface	26	20	1,070'	1,070'	106.5	J55	Surface
Intermediate 1	17 1/2	13 3/8	2,840'	2,840'	54.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,580'	10,528'	47	HPP110	Surface
Production	8 1/2	5 1/2	22,351'	11,901'	23	HCP110	Surface

CEMENT SUMMARY				DRILLING DETAILS	
	Sacks	Class	Density	Fluid Type	Centralizer Notes
Conductor	338	A	15.6	Air	None
Surface	1,854	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	2,170	A	15	Air	1 Centralizer every other jt
Intermediate 2	2,892	A	14.5	Air	1 Centralizer every other jt
Production	4,684	A	15	Air / SOBMM	1 every other joint in lateral; 1 per joint in curve; 1 every other jt to s/c

JM 9/17/2020

4705102293

Pilot Hole PH TD @ 11,957'
 Landing Point @ 12,202 MD / 11,724' TVD
 PH TVD = 150' below Trenton Top

Lateral TD @ 22,351' ft MD
 11,901' R TVD

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 SEP 17 2020

WV Department of
 Environmental Protection



4705102293

Tug Hill Operating, LLC Casing and Cement Program

Hudson S-13HU

Casing

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	20"	J55	26"	1,070'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,840'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,580'	CTS
Production	5 1/2"	HCP110	8 1/2"	22,351'	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% bwoc 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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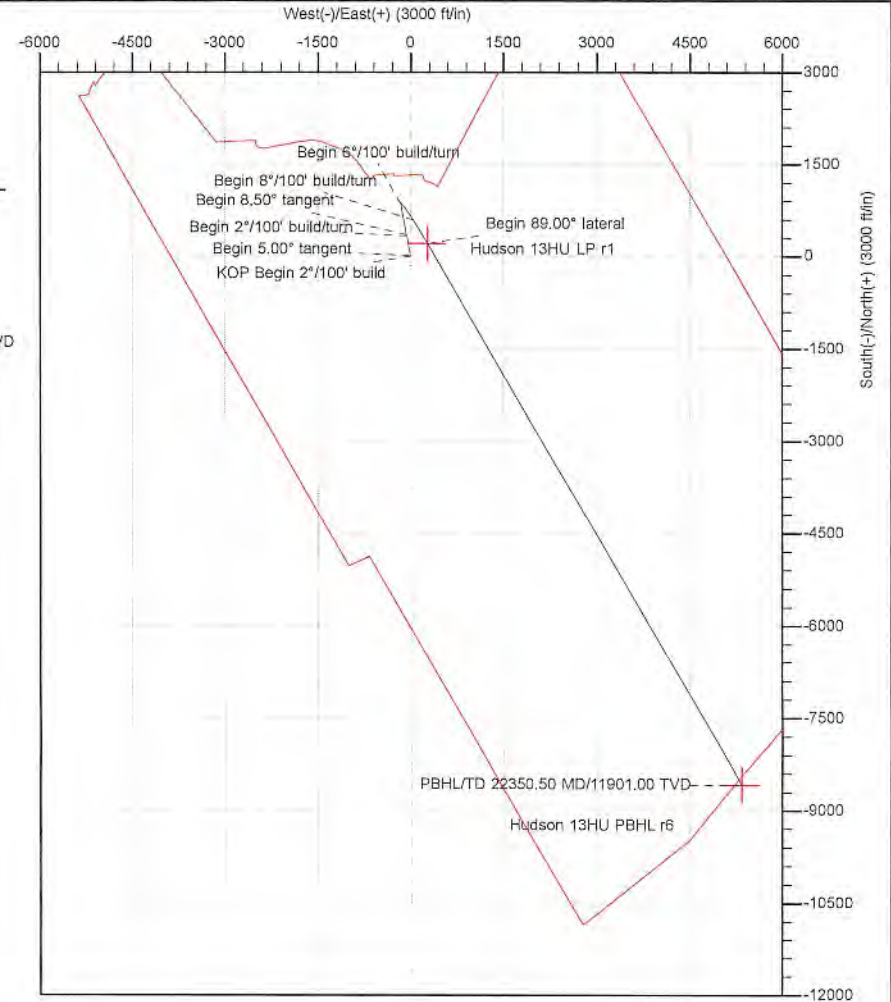
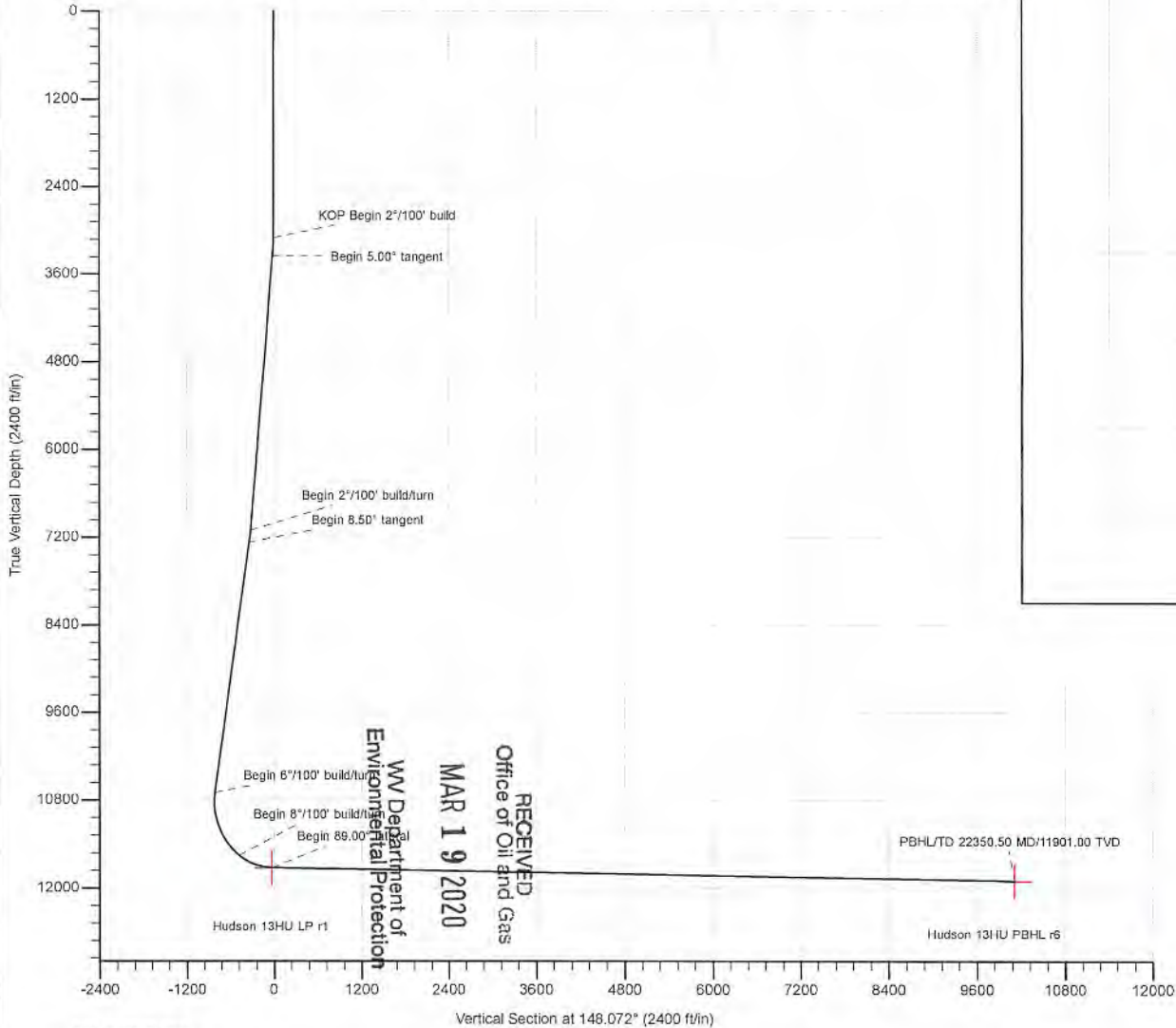
WV Department of
Environmental Protection



Well: Hudson S-13 HU (slot A)
 Site: Hudson Alt North
 Project: Marshall County, West Virginia
 Design: rev6
 Rig:

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	3100.00	0.00	0.000	3100.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 2°/100' build
3	3350.00	5.00	349.240	3349.68	10.71	-2.04	2.00	349.240	-10.17	Begin 5.00° tangent
4	7114.84	5.00	349.240	7100.00	333.05	-63.29	0.00	0.000	-316.14	Begin 2°/100' build/turn
5	7289.90	8.50	349.713	7274.02	353.31	-67.03	2.00	1.143	-335.31	Begin 8.50° tangent
6	10747.66	8.50	349.713	10693.75	856.47	-158.36	0.00	0.000	-810.64	Begin 6°/100' build/turn
7	11713.42	50.00	147.646	11556.53	591.25	44.43	6.00	160.150	-478.30	Begin 8°/100' build/turn
8	12201.68	89.00	150.010	11724.26	206.84	275.54	8.00	3.753	-29.83	Begin 89.00° lateral
9	22350.50	89.00	150.010	11901.00	-8581.86	5347.62	0.00	0.000	0111.64	PBHL/TD 22350.50 MD/11901.00 TVD



Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD83 West Virginia - HARN
 Ellipsoid: GRS 1980
 Zone: Zone 17N (84 W to 78 W)

System Datum: Mean Sea Level
 Depth Reference: GL @ 1344.25ft

Northing: 14464513.22 Easting: 1732301.05 Latitude: 39.82866700 Longitude: -80.67271800

Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.990°



Azimuths to Grid North
 True North: -0.21°
 Magnetic North: -8.99°
 Magnetic Field
 Strength: 51062.6snT
 Dip Angle: 66.82°
 Date: 6/7/2019
 Model: IGRF2015



4705102293



Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Hudson S-13 HU (slot A)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1344.25ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1344.25ft
Site:	Hudson Alt North	North Reference:	Grid
Well:	Hudson S-13 HU (slot A)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev6		

Project	Marshall County, West Virginia		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD83 West Virginia - HARN		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Hudson Alt North				
Site Position:		Northing:	14,464,552.10 usft	Latitude:	39.82877400
From:	Lat/Long	Easting:	1,732,278.45 usft	Longitude:	-80.67279800
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.210 °

Well	Hudson S-13 HU (slot A)					
Well Position	+N-S	0.00 ft	Northing:	14,464,513.22 usft	Latitude:	39.82866700
	+E-W	0.00 ft	Easting:	1,732,301.05 usft	Longitude:	-80.67271800
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	1,344.25 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/7/2019	-8.780	66.819	51,962.85953712

Design	rev6			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.00	0.00	0.00	148.072

Plan Survey Tool Program	Date	3/9/2020		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,350.50 rev6 (Original Hole)	MWD MWD - Standard	

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Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,100.00	0.00	0.000	3,100.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,350.00	5.00	349.240	3,349.68	10.71	-2.04	2.00	2.00	0.00	349.240	
7,114.64	5.00	349.240	7,100.00	333.05	-63.29	0.00	0.00	0.00	0.000	
7,289.90	8.50	349.713	7,274.02	353.31	-67.03	2.00	2.00	0.27	1.143	
10,747.66	8.50	349.713	10,693.75	856.47	-158.36	0.00	0.00	0.00	0.000	
11,713.42	50.00	147.646	11,556.53	591.25	44.43	6.00	4.30	16.35	160.150	
12,201.68	89.00	150.010	11,724.26	206.84	275.54	8.00	7.99	0.48	3.753	
22,350.50	89.00	150.010	11,901.00	-8,581.86	5,347.62	0.00	0.00	0.00	0.000	Hudson 13HU PBHL I



Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
 Well: Hudson S-13 HU (slot A)
 Wellbore: Original Hole
 Design: rev6

Local Co-ordinate Reference: Well Hudson S-13 HU (slot A)
 TVD Reference: GL @ 1344.25ft
 MD Reference: GL @ 1344.25ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
100.00	0.00	0.000	100.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
200.00	0.00	0.000	200.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
300.00	0.00	0.000	300.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
400.00	0.00	0.000	400.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
500.00	0.00	0.000	500.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
600.00	0.00	0.000	600.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
700.00	0.00	0.000	700.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
800.00	0.00	0.000	800.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
900.00	0.00	0.000	900.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,100.00	0.00	0.000	1,100.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,300.00	0.00	0.000	1,300.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,400.00	0.00	0.000	1,400.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,500.00	0.00	0.000	1,500.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,600.00	0.00	0.000	1,600.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,700.00	0.00	0.000	1,700.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,800.00	0.00	0.000	1,800.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
1,900.00	0.00	0.000	1,900.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,000.00	0.00	0.000	2,000.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,100.00	0.00	0.000	2,100.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,200.00	0.00	0.000	2,200.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,300.00	0.00	0.000	2,300.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,400.00	0.00	0.000	2,400.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,500.00	0.00	0.000	2,500.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,600.00	0.00	0.000	2,600.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,700.00	0.00	0.000	2,700.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,800.00	0.00	0.000	2,800.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
2,900.00	0.00	0.000	2,900.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
3,000.00	0.00	0.000	3,000.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
3,100.00	0.00	0.000	3,100.00	0.00	0.00	14,464,513.22	1,732,301.05	39.82866700	-80.67271800	
KOP Begin 2°/100' build										
3,200.00	2.00	349.240	3,199.98	1.71	-0.33	14,464,514.93	1,732,300.73	39.82867171	-80.67271914	
3,300.00	4.00	349.240	3,299.84	6.86	-1.30	14,464,520.07	1,732,299.75	39.82868584	-80.67272255	
3,350.00	5.00	349.240	3,349.68	10.71	-2.04	14,464,523.93	1,732,299.02	39.82869643	-80.67272511	
Begin 5.00° tangent										
3,400.00	5.00	349.240	3,399.49	14.99	-2.85	14,464,528.21	1,732,298.20	39.82870820	-80.67272795	
3,500.00	5.00	349.240	3,499.11	23.55	-4.48	14,464,536.77	1,732,296.58	39.82873173	-80.67273364	
3,600.00	5.00	349.240	3,598.73	32.12	-6.10	14,464,545.33	1,732,294.95	39.82875526	-80.67273932	
3,700.00	5.00	349.240	3,698.35	40.68	-7.73	14,464,553.90	1,732,293.32	39.82877879	-80.67274500	
3,800.00	5.00	349.240	3,797.97	49.24	-9.36	14,464,562.46	1,732,291.70	39.82880232	-80.67275069	
3,900.00	5.00	349.240	3,897.59	57.80	-10.98	14,464,571.02	1,732,290.07	39.82882585	-80.67275637	
4,000.00	5.00	349.240	3,997.21	66.36	-12.61	14,464,579.58	1,732,288.44	39.82884938	-80.67276206	
4,100.00	5.00	349.240	4,096.83	74.93	-14.24	14,464,588.15	1,732,286.81	39.82887291	-80.67276774	
4,200.00	5.00	349.240	4,196.45	83.49	-15.87	14,464,596.71	1,732,285.19	39.82889644	-80.67277342	
4,300.00	5.00	349.240	4,296.07	92.05	-17.49	14,464,605.27	1,732,283.56	39.82891997	-80.67277911	
4,400.00	5.00	349.240	4,395.69	100.61	-19.12	14,464,613.83	1,732,281.93	39.82894350	-80.67278479	
4,500.00	5.00	349.240	4,495.31	109.18	-20.75	14,464,622.40	1,732,280.31	39.82896703	-80.67279048	
4,600.00	5.00	349.240	4,594.93	117.74	-22.37	14,464,630.96	1,732,278.68	39.82899056	-80.67279616	
4,700.00	5.00	349.240	4,694.55	126.30	-24.00	14,464,639.52	1,732,277.05	39.82901409	-80.67280185	
4,800.00	5.00	349.240	4,794.17	134.86	-25.63	14,464,648.08	1,732,275.42	39.82903763	-80.67280753	
4,900.00	5.00	349.240	4,893.78	143.43	-27.26	14,464,656.64	1,732,273.80	39.82906116	-80.67281321	
5,000.00	5.00	349.240	4,993.40	151.99	-28.88	14,464,665.21	1,732,272.17	39.82908469	-80.67281890	



Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
 Well: Hudson S-13 HU (slot A)
 Wellbore: Original Hole
 Design: rev6

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Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,100.00	5.00	349.240	5,093.02	160.55	-30.51	14,464,673.77	1,732,270.54	39.82910822	-80.67282458	
5,200.00	5.00	349.240	5,192.64	169.11	-32.14	14,464,682.33	1,732,268.92	39.82913175	-80.67283027	
5,300.00	5.00	349.240	5,292.26	177.68	-33.76	14,464,690.89	1,732,267.29	39.82915528	-80.67283595	
5,400.00	5.00	349.240	5,391.88	186.24	-35.39	14,464,699.46	1,732,265.66	39.82917881	-80.67284163	
5,500.00	5.00	349.240	5,491.50	194.80	-37.02	14,464,708.02	1,732,264.03	39.82920234	-80.67284732	
5,600.00	5.00	349.240	5,591.12	203.36	-38.65	14,464,716.58	1,732,262.41	39.82922587	-80.67285300	
5,700.00	5.00	349.240	5,690.74	211.92	-40.27	14,464,725.14	1,732,260.78	39.82924940	-80.67285869	
5,800.00	5.00	349.240	5,790.36	220.49	-41.90	14,464,733.71	1,732,259.15	39.82927293	-80.67286437	
5,900.00	5.00	349.240	5,889.98	229.05	-43.53	14,464,742.27	1,732,257.53	39.82929646	-80.67287006	
6,000.00	5.00	349.240	5,989.60	237.61	-45.15	14,464,750.83	1,732,255.90	39.82931999	-80.67287574	
6,100.00	5.00	349.240	6,089.22	246.17	-46.78	14,464,759.39	1,732,254.27	39.82934352	-80.67288142	
6,200.00	5.00	349.240	6,188.84	254.74	-48.41	14,464,767.95	1,732,252.64	39.82936705	-80.67288711	
6,300.00	5.00	349.240	6,288.46	263.30	-50.04	14,464,776.52	1,732,251.02	39.82939058	-80.67289279	
6,400.00	5.00	349.240	6,388.08	271.86	-51.66	14,464,785.08	1,732,249.39	39.82941411	-80.67289848	
6,500.00	5.00	349.240	6,487.70	280.42	-53.29	14,464,793.64	1,732,247.76	39.82943764	-80.67290416	
6,600.00	5.00	349.240	6,587.32	288.99	-54.92	14,464,802.20	1,732,246.14	39.82946117	-80.67290984	
6,700.00	5.00	349.240	6,686.94	297.55	-56.55	14,464,810.77	1,732,244.51	39.82948470	-80.67291553	
6,800.00	5.00	349.240	6,786.55	306.11	-58.17	14,464,819.33	1,732,242.88	39.82950823	-80.67292121	
6,900.00	5.00	349.240	6,886.17	314.67	-59.80	14,464,827.89	1,732,241.25	39.82953176	-80.67292690	
7,000.00	5.00	349.240	6,985.79	323.23	-61.43	14,464,836.45	1,732,239.63	39.82955529	-80.67293258	
7,100.00	5.00	349.240	7,085.41	331.80	-63.05	14,464,845.02	1,732,238.00	39.82957883	-80.67293827	
7,114.64	5.00	349.240	7,100.00	333.05	-63.29	14,464,846.27	1,732,237.76	39.82958227	-80.67293910	
Begin 2°/100' build/turn										
7,200.00	6.71	349.532	7,184.91	341.61	-64.89	14,464,854.83	1,732,236.16	39.82960578	-80.67294469	
7,289.90	8.50	349.713	7,274.02	353.31	-67.03	14,464,866.53	1,732,234.02	39.82963795	-80.67295216	
Begin 8.50° tangent										
7,300.00	8.50	349.713	7,284.00	354.78	-67.30	14,464,868.00	1,732,233.75	39.82964199	-80.67295309	
7,400.00	8.50	349.713	7,382.90	369.33	-69.94	14,464,882.55	1,732,231.11	39.82968198	-80.67296231	
7,500.00	8.50	349.713	7,481.80	383.88	-72.58	14,464,897.10	1,732,228.47	39.82972196	-80.67297153	
7,600.00	8.50	349.713	7,580.70	398.44	-75.22	14,464,911.65	1,732,225.83	39.82976195	-80.67298075	
7,700.00	8.50	349.713	7,679.60	412.99	-77.86	14,464,926.21	1,732,223.19	39.82980194	-80.67298996	
7,800.00	8.50	349.713	7,778.51	427.54	-80.51	14,464,940.76	1,732,220.55	39.82984193	-80.67299918	
7,900.00	8.50	349.713	7,877.41	442.09	-83.15	14,464,955.31	1,732,217.91	39.82988192	-80.67300840	
8,000.00	8.50	349.713	7,976.31	456.64	-85.79	14,464,969.86	1,732,215.26	39.82992190	-80.67301762	
8,100.00	8.50	349.713	8,075.21	471.19	-88.43	14,464,984.41	1,732,212.62	39.82996189	-80.67302684	
8,200.00	8.50	349.713	8,174.11	485.74	-91.07	14,464,998.96	1,732,209.98	39.83000188	-80.67303605	
8,300.00	8.50	349.713	8,273.01	500.30	-93.71	14,465,013.51	1,732,207.34	39.83004187	-80.67304527	
8,400.00	8.50	349.713	8,371.91	514.85	-96.35	14,465,028.07	1,732,204.70	39.83008186	-80.67305449	
8,500.00	8.50	349.713	8,470.81	529.40	-98.99	14,465,042.62	1,732,202.06	39.83012184	-80.67306371	
8,600.00	8.50	349.713	8,569.71	543.95	-101.64	14,465,057.17	1,732,199.42	39.83016183	-80.67307293	
8,700.00	8.50	349.713	8,668.61	558.50	-104.28	14,465,071.72	1,732,196.78	39.83020182	-80.67308214	
8,800.00	8.50	349.713	8,767.51	573.05	-106.92	14,465,086.27	1,732,194.14	39.83024181	-80.67309136	
8,900.00	8.50	349.713	8,866.41	587.60	-109.56	14,465,100.82	1,732,191.49	39.83028180	-80.67310058	
9,000.00	8.50	349.713	8,965.31	602.16	-112.20	14,465,115.37	1,732,188.85	39.83032178	-80.67310980	
9,100.00	8.50	349.713	9,064.21	616.71	-114.84	14,465,129.93	1,732,186.21	39.83036177	-80.67311902	
9,200.00	8.50	349.713	9,163.11	631.26	-117.48	14,465,144.48	1,732,183.57	39.83040176	-80.67312823	
9,300.00	8.50	349.713	9,262.01	645.81	-120.12	14,465,159.03	1,732,180.93	39.83044175	-80.67313745	
9,400.00	8.50	349.713	9,360.91	660.36	-122.76	14,465,173.58	1,732,178.29	39.83048174	-80.67314667	
9,500.00	8.50	349.713	9,459.81	674.91	-125.41	14,465,188.13	1,732,175.65	39.83052172	-80.67315589	
9,600.00	8.50	349.713	9,558.71	689.46	-128.05	14,465,202.68	1,732,173.01	39.83056171	-80.67316511	
9,700.00	8.50	349.713	9,657.61	704.02	-130.69	14,465,217.23	1,732,170.37	39.83060170	-80.67317433	
9,800.00	8.50	349.713	9,756.51	718.57	-133.33	14,465,231.79	1,732,167.72	39.83064169	-80.67318354	
9,900.00	8.50	349.713	9,855.41	733.12	-135.97	14,465,246.34	1,732,165.08	39.83068168	-80.67319276	
10,000.00	8.50	349.713	9,954.31	747.67	-138.61	14,465,260.89	1,732,162.44	39.83072167	-80.67320198	



Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
 Well: Hudson S-13 HU (slot A)
 Wellbore: Original Hole
 Design: rev6

Local Co-ordinate Reference: Well Hudson S-13 HU (slot A)
 TVD Reference: GL @ 1344.25ft
 MD Reference: GL @ 1344.25ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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 Office of Oil and Gas

MAR 19 2020

Planned Survey

WV Department of
 Environmental Protection

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,100.00	8.50	349.713	10,053.21	762.22	-141.25	14,465,275.44	1,732,159.80	39.83076165	-80.67321120
10,200.00	8.50	349.713	10,152.11	776.77	-143.89	14,465,289.99	1,732,157.16	39.83080164	-80.67322042
10,300.00	8.50	349.713	10,251.01	791.33	-146.53	14,465,304.54	1,732,154.52	39.83084163	-80.67322964
10,400.00	8.50	349.713	10,349.91	805.88	-149.18	14,465,319.09	1,732,151.88	39.83088162	-80.67323885
10,500.00	8.50	349.713	10,448.81	820.43	-151.82	14,465,333.65	1,732,149.24	39.83092161	-80.67324807
10,600.00	8.50	349.713	10,547.72	834.98	-154.46	14,465,348.20	1,732,146.60	39.83096159	-80.67325729
10,700.00	8.50	349.713	10,646.62	849.53	-157.10	14,465,362.75	1,732,143.95	39.83100158	-80.67326651
10,747.66	8.50	349.713	10,693.75	856.47	-158.36	14,465,369.68	1,732,142.70	39.83102064	-80.67327090
Begin 6°/100' build/turn									
10,800.00	5.65	0.601	10,745.69	862.85	-159.02	14,465,376.07	1,732,142.03	39.83103819	-80.67327318
10,900.00	3.09	81.582	10,845.46	868.18	-156.30	14,465,381.39	1,732,144.75	39.83105278	-80.67326341
11,000.00	7.69	128.203	10,945.03	864.43	-148.36	14,465,377.65	1,732,152.69	39.83104241	-80.67323520
11,100.00	13.44	137.918	11,043.30	851.66	-135.31	14,465,364.87	1,732,165.75	39.83100720	-80.67318885
11,200.00	19.34	141.828	11,139.20	829.99	-117.27	14,465,343.21	1,732,183.79	39.83094752	-80.67312488
11,300.00	25.29	143.955	11,231.67	799.68	-94.44	14,465,312.89	1,732,206.61	39.83086404	-80.67304398
11,400.00	31.25	145.312	11,319.70	761.04	-67.09	14,465,274.26	1,732,233.97	39.83075766	-80.67294704
11,500.00	37.23	146.270	11,402.33	714.51	-35.50	14,465,227.73	1,732,265.56	39.83062956	-80.67283512
11,600.00	43.21	146.996	11,478.66	660.59	-0.02	14,465,173.81	1,732,301.03	39.83048113	-80.67270946
11,700.00	49.20	147.576	11,547.83	599.88	38.96	14,465,113.09	1,732,340.01	39.83031401	-80.67257142
11,713.42	50.00	147.646	11,556.53	591.25	44.43	14,465,104.47	1,732,345.48	39.83029026	-80.67255204
Begin 8°/100' build/turn									
11,800.00	56.91	148.186	11,608.05	532.34	81.34	14,465,045.56	1,732,382.40	39.83012811	-80.67242132
11,900.00	64.90	148.713	11,656.64	457.93	127.02	14,464,971.15	1,732,428.07	39.82992330	-80.67225961
12,000.00	72.89	149.175	11,692.62	378.07	175.10	14,464,891.29	1,732,476.15	39.82970350	-80.67208940
12,100.00	80.88	149.598	11,715.29	294.32	224.65	14,464,807.53	1,732,525.70	39.82947300	-80.67191400
12,200.00	88.87	150.003	11,724.22	208.30	274.70	14,464,721.52	1,732,575.76	39.82923628	-80.67173683
12,201.68	89.00	150.010	11,724.26	206.84	275.54	14,464,720.06	1,732,576.60	39.82923227	-80.67173385
Begin 89.00° lateral									
12,300.00	89.00	150.010	11,725.97	121.70	324.68	14,464,634.92	1,732,625.73	39.82899796	-80.67155995
12,400.00	89.00	150.010	11,727.71	35.11	374.66	14,464,548.32	1,732,675.71	39.82875964	-80.67138308
12,500.00	89.00	150.010	11,729.45	-51.49	424.63	14,464,461.73	1,732,725.69	39.82852132	-80.67120620
12,600.00	89.00	150.010	11,731.19	-138.09	474.61	14,464,375.13	1,732,775.66	39.82828299	-80.67102933
12,700.00	89.00	150.010	11,732.93	-224.69	524.59	14,464,288.53	1,732,825.64	39.82804467	-80.67085245
12,800.00	89.00	150.010	11,734.68	-311.29	574.57	14,464,201.93	1,732,875.62	39.82780635	-80.67067558
12,900.00	89.00	150.010	11,736.42	-397.89	624.54	14,464,115.33	1,732,925.59	39.82756802	-80.67049871
13,000.00	89.00	150.010	11,738.16	-484.48	674.52	14,464,028.74	1,732,975.57	39.82732970	-80.67032184
13,100.00	89.00	150.010	11,739.90	-571.08	724.50	14,463,942.14	1,733,025.55	39.82709137	-80.67014497
13,200.00	89.00	150.010	11,741.64	-657.68	774.47	14,463,855.54	1,733,075.52	39.82685305	-80.66996810
13,300.00	89.00	150.010	11,743.38	-744.28	824.45	14,463,768.94	1,733,125.50	39.82661473	-80.66979124
13,400.00	89.00	150.010	11,745.12	-830.88	874.43	14,463,682.34	1,733,175.48	39.82637640	-80.66961437
13,500.00	89.00	150.010	11,746.87	-917.48	924.40	14,463,595.75	1,733,225.46	39.82613807	-80.66943751
13,600.00	89.00	150.010	11,748.61	-1,004.07	974.38	14,463,509.15	1,733,275.43	39.82589975	-80.66926065
13,700.00	89.00	150.010	11,750.35	-1,090.67	1,024.36	14,463,422.55	1,733,325.41	39.82566142	-80.66908378
13,800.00	89.00	150.010	11,752.09	-1,177.27	1,074.34	14,463,335.95	1,733,375.39	39.82542310	-80.66890692
13,900.00	89.00	150.010	11,753.83	-1,263.87	1,124.31	14,463,249.35	1,733,425.36	39.82518477	-80.66873006
14,000.00	89.00	150.010	11,755.57	-1,350.47	1,174.29	14,463,162.75	1,733,475.34	39.82494644	-80.66855321
14,100.00	89.00	150.010	11,757.32	-1,437.07	1,224.27	14,463,076.16	1,733,525.32	39.82470812	-80.66837635
14,200.00	89.00	150.010	11,759.06	-1,523.66	1,274.24	14,462,989.56	1,733,575.29	39.82446979	-80.66819950
14,300.00	89.00	150.010	11,760.80	-1,610.26	1,324.22	14,462,902.96	1,733,625.27	39.82423146	-80.66802264
14,400.00	89.00	150.010	11,762.54	-1,696.86	1,374.20	14,462,816.36	1,733,675.25	39.82399313	-80.66784579
14,500.00	89.00	150.010	11,764.28	-1,783.46	1,424.17	14,462,729.76	1,733,725.22	39.82375481	-80.66766894
14,600.00	89.00	150.010	11,766.02	-1,870.06	1,474.15	14,462,643.17	1,733,775.20	39.82351648	-80.66749209
14,700.00	89.00	150.010	11,767.76	-1,956.65	1,524.13	14,462,556.57	1,733,825.18	39.82327815	-80.66731524
14,800.00	89.00	150.010	11,769.51	-2,043.25	1,574.11	14,462,469.97	1,733,875.16	39.82303982	-80.66713839



Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
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 Design: rev6

Local Co-ordinate Reference: Well Hudson S-13 HU (slot A)
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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,900.00	89.00	150.010	11,771.25	-2,129.85	1,624.08	14,462,383.37	1,733,925.13	39.82280149	-80.66696154
15,000.00	89.00	150.010	11,772.99	-2,216.45	1,674.06	14,462,296.77	1,733,975.11	39.82256316	-80.66678470
15,100.00	89.00	150.010	11,774.73	-2,303.05	1,724.04	14,462,210.18	1,734,025.09	39.82232483	-80.66660785
15,200.00	89.00	150.010	11,776.47	-2,389.65	1,774.01	14,462,123.58	1,734,075.06	39.82208650	-80.66643101
15,300.00	89.00	150.010	11,778.21	-2,476.24	1,823.99	14,462,036.98	1,734,125.04	39.82184817	-80.66625417
15,400.00	89.00	150.010	11,779.96	-2,562.84	1,873.97	14,461,950.38	1,734,175.02	39.82160984	-80.66607733
15,500.00	89.00	150.010	11,781.70	-2,649.44	1,923.94	14,461,863.78	1,734,224.99	39.82137151	-80.66590049
15,600.00	89.00	150.010	11,783.44	-2,736.04	1,973.92	14,461,777.18	1,734,274.97	39.82113318	-80.66572365
15,700.00	89.00	150.010	11,785.18	-2,822.64	2,023.90	14,461,690.59	1,734,324.95	39.82089485	-80.66554681
15,800.00	89.00	150.010	11,786.92	-2,909.24	2,073.88	14,461,603.99	1,734,374.92	39.82065651	-80.66536998
15,900.00	89.00	150.010	11,788.66	-2,995.83	2,123.85	14,461,517.39	1,734,424.90	39.82041818	-80.66519314
16,000.00	89.00	150.010	11,790.40	-3,082.43	2,173.83	14,461,430.79	1,734,474.88	39.82017985	-80.66501631
16,100.00	89.00	150.010	11,792.15	-3,169.03	2,223.81	14,461,344.19	1,734,524.86	39.81994152	-80.66483948
16,200.00	89.00	150.010	11,793.89	-3,255.63	2,273.78	14,461,257.60	1,734,574.83	39.81970319	-80.66466265
16,300.00	89.00	150.010	11,795.63	-3,342.23	2,323.76	14,461,171.00	1,734,624.81	39.81946485	-80.66448582
16,400.00	89.00	150.010	11,797.37	-3,428.83	2,373.74	14,461,084.40	1,734,674.79	39.81922652	-80.66430899
16,500.00	89.00	150.010	11,799.11	-3,515.42	2,423.71	14,460,997.80	1,734,724.76	39.81898819	-80.66413216
16,600.00	89.00	150.010	11,800.85	-3,602.02	2,473.69	14,460,911.20	1,734,774.74	39.81874985	-80.66395533
16,700.00	89.00	150.010	11,802.60	-3,688.62	2,523.67	14,460,824.61	1,734,824.72	39.81851152	-80.66377851
16,800.00	89.00	150.010	11,804.34	-3,775.22	2,573.65	14,460,738.01	1,734,874.69	39.81827318	-80.66360169
16,900.00	89.00	150.010	11,806.08	-3,861.82	2,623.62	14,460,651.41	1,734,924.67	39.81803485	-80.66342486
17,000.00	89.00	150.010	11,807.82	-3,948.42	2,673.60	14,460,564.81	1,734,974.65	39.81779651	-80.66324804
17,100.00	89.00	150.010	11,809.56	-4,035.01	2,723.58	14,460,478.21	1,735,024.62	39.81755818	-80.66307122
17,200.00	89.00	150.010	11,811.30	-4,121.61	2,773.55	14,460,391.61	1,735,074.60	39.81731984	-80.66289440
17,300.00	89.00	150.010	11,813.04	-4,208.21	2,823.53	14,460,305.02	1,735,124.58	39.81708151	-80.66271759
17,400.00	89.00	150.010	11,814.79	-4,294.81	2,873.51	14,460,218.42	1,735,174.56	39.81684317	-80.66254077
17,500.00	89.00	150.010	11,816.53	-4,381.41	2,923.49	14,460,131.82	1,735,224.53	39.81660483	-80.66236395
17,600.00	89.00	150.010	11,818.27	-4,468.01	2,973.46	14,460,045.22	1,735,274.51	39.81636650	-80.66218714
17,700.00	89.00	150.010	11,820.01	-4,554.60	3,023.44	14,459,958.62	1,735,324.49	39.81612816	-80.66201033
17,800.00	89.00	150.010	11,821.75	-4,641.20	3,073.42	14,459,872.03	1,735,374.46	39.81588982	-80.66183352
17,900.00	89.00	150.010	11,823.49	-4,727.80	3,123.39	14,459,785.43	1,735,424.44	39.81565149	-80.66165671
18,000.00	89.00	150.010	11,825.23	-4,814.40	3,173.37	14,459,698.83	1,735,474.42	39.81541315	-80.66147990
18,100.00	89.00	150.010	11,826.98	-4,901.00	3,223.35	14,459,612.23	1,735,524.39	39.81517481	-80.66130309
18,200.00	89.00	150.010	11,828.72	-4,987.60	3,273.32	14,459,525.63	1,735,574.37	39.81493647	-80.66112628
18,300.00	89.00	150.010	11,830.46	-5,074.19	3,323.30	14,459,439.04	1,735,624.35	39.81469813	-80.66094948
18,400.00	89.00	150.010	11,832.20	-5,160.79	3,373.28	14,459,352.44	1,735,674.32	39.81445979	-80.66077267
18,500.00	89.00	150.010	11,833.94	-5,247.39	3,423.26	14,459,265.84	1,735,724.30	39.81422146	-80.66059587
18,600.00	89.00	150.010	11,835.68	-5,333.99	3,473.23	14,459,179.24	1,735,774.28	39.81398312	-80.66041907
18,700.00	89.00	150.010	11,837.43	-5,420.59	3,523.21	14,459,092.64	1,735,824.26	39.81374478	-80.66024227
18,800.00	89.00	150.010	11,839.17	-5,507.19	3,573.19	14,459,006.04	1,735,874.23	39.81350644	-80.66006547
18,900.00	89.00	150.010	11,840.91	-5,593.78	3,623.16	14,458,919.45	1,735,924.21	39.81326810	-80.65988867
19,000.00	89.00	150.010	11,842.65	-5,680.38	3,673.14	14,458,832.85	1,735,974.19	39.81302976	-80.65971187
19,100.00	89.00	150.010	11,844.39	-5,766.98	3,723.12	14,458,746.25	1,736,024.16	39.81279142	-80.65953508
19,200.00	89.00	150.010	11,846.13	-5,853.58	3,773.09	14,458,659.65	1,736,074.14	39.81255307	-80.65935828
19,300.00	89.00	150.010	11,847.87	-5,940.18	3,823.07	14,458,573.05	1,736,124.12	39.81231473	-80.65918149
19,400.00	89.00	150.010	11,849.62	-6,026.77	3,873.05	14,458,486.46	1,736,174.09	39.81207639	-80.65900470
19,500.00	89.00	150.010	11,851.36	-6,113.37	3,923.03	14,458,399.86	1,736,224.07	39.81183805	-80.65882791
19,600.00	89.00	150.010	11,853.10	-6,199.97	3,973.00	14,458,313.26	1,736,274.05	39.81159971	-80.65865112
19,700.00	89.00	150.010	11,854.84	-6,286.57	4,022.98	14,458,226.66	1,736,324.02	39.81136136	-80.65847433
19,800.00	89.00	150.010	11,856.58	-6,373.17	4,072.96	14,458,140.06	1,736,374.00	39.81112302	-80.65829754
19,900.00	89.00	150.010	11,858.32	-6,459.77	4,122.93	14,458,053.47	1,736,423.98	39.81088468	-80.65812076
20,000.00	89.00	150.010	11,860.07	-6,546.36	4,172.91	14,457,966.87	1,736,473.96	39.81064634	-80.65794397
20,100.00	89.00	150.010	11,861.81	-6,632.96	4,222.89	14,457,880.27	1,736,523.93	39.81040799	-80.65776719
20,200.00	89.00	150.010	11,863.55	-6,719.56	4,272.86	14,457,793.67	1,736,573.91	39.81016965	-80.65759041
20,300.00	89.00	150.010	11,865.29	-6,806.16	4,322.84	14,457,707.07	1,736,623.89	39.80993130	-80.65741363



Database:	DB_Aug1919_v14	Local Co-ordinate Reference:	Well Hudson S-13 HU (slot A)
Company:	Tug Hill Operating LLC	TVD Reference:	GL @ 1344.25ft
Project:	Marshall County, West Virginia	MD Reference:	GL @ 1344.25ft
Site:	Hudson Alt North	North Reference:	Grid
Well:	Hudson S-13 HU (slot A)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev6		

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20,400.00	89.00	150.010	11,867.03	-6,892.76	4,372.82	14,457,620.47	1,736,673.86	39.80969296	-80.65723685
20,500.00	89.00	150.010	11,868.77	-6,979.36	4,422.80	14,457,533.88	1,736,723.84	39.80945462	-80.65706007
20,600.00	89.00	150.010	11,870.51	-7,065.95	4,472.77	14,457,447.28	1,736,773.82	39.80921627	-80.65688329
20,700.00	89.00	150.010	11,872.26	-7,152.55	4,522.75	14,457,360.68	1,736,823.79	39.80897793	-80.65670651
20,800.00	89.00	150.010	11,874.00	-7,239.15	4,572.73	14,457,274.08	1,736,873.77	39.80873958	-80.65652974
20,900.00	89.00	150.010	11,875.74	-7,325.75	4,622.70	14,457,187.48	1,736,923.75	39.80850123	-80.65635296
21,000.00	89.00	150.010	11,877.48	-7,412.35	4,672.68	14,457,100.89	1,736,973.72	39.80826289	-80.65617619
21,100.00	89.00	150.010	11,879.22	-7,498.95	4,722.66	14,457,014.29	1,737,023.70	39.80802454	-80.65599942
21,200.00	89.00	150.010	11,880.96	-7,585.54	4,772.63	14,456,927.69	1,737,073.68	39.80778620	-80.65582265
21,300.00	89.00	150.010	11,882.71	-7,672.14	4,822.61	14,456,841.09	1,737,123.66	39.80754785	-80.65564588
21,400.00	89.00	150.010	11,884.45	-7,758.74	4,872.59	14,456,754.49	1,737,173.63	39.80730950	-80.65546911
21,500.00	89.00	150.010	11,886.19	-7,845.34	4,922.57	14,456,667.90	1,737,223.61	39.80707116	-80.65529235
21,600.00	89.00	150.010	11,887.93	-7,931.94	4,972.54	14,456,581.30	1,737,273.59	39.80683281	-80.65511558
21,700.00	89.00	150.010	11,889.67	-8,018.54	5,022.52	14,456,494.70	1,737,323.56	39.80659446	-80.65493882
21,800.00	89.00	150.010	11,891.41	-8,105.13	5,072.50	14,456,408.10	1,737,373.54	39.80635611	-80.65476206
21,900.00	89.00	150.010	11,893.15	-8,191.73	5,122.47	14,456,321.50	1,737,423.52	39.80611776	-80.65458529
22,000.00	89.00	150.010	11,894.90	-8,278.33	5,172.45	14,456,234.91	1,737,473.49	39.80587941	-80.65440853
22,100.00	89.00	150.010	11,896.64	-8,364.93	5,222.43	14,456,148.31	1,737,523.47	39.80564107	-80.65423178
22,200.00	89.00	150.010	11,898.38	-8,451.53	5,272.41	14,456,061.71	1,737,573.45	39.80540272	-80.65405502
22,300.00	89.00	150.010	11,900.12	-8,538.13	5,322.38	14,455,975.11	1,737,623.42	39.80516437	-80.65387826
22,350.50	89.00	150.010	11,901.00	-8,581.86	5,347.62	14,455,931.38	1,737,648.66	39.80504400	-80.65378900

PBHL/TD 22350.50 MD/11901.00 TVD

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hudson 13HU LP r1 - hit/miss target - Shape - Point	0.00	0.000	11,724.25	206.86	275.52	14,464,720.08	1,732,576.57	39.82923231	-80.67173395
- plan misses target center by 0.02ft at 12201.66ft MD (11724.25 TVD, 206.87 N, 275.53 E)									
Hudson 13HU PBHL r6 - plan hits target center - Point	0.00	0.000	11,901.00	-8,581.86	5,347.62	14,455,931.38	1,737,648.66	39.80504400	-80.65378900

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
3,100.00	3,100.00	0.00	0.00	KOP Begin 2°/100' build	
3,350.00	3,349.68	10.71	-2.04	Begin 5.00° tangent	
7,114.64	7,100.00	333.05	-63.29	Begin 2°/100' build/turn	
7,289.90	7,274.02	353.31	-67.03	Begin 8.50° tangent	
10,747.66	10,693.75	856.47	-158.36	Begin 6°/100' build/turn	
11,713.42	11,556.53	591.25	44.43	Begin 8°/100' build/turn	
12,201.68	11,724.26	206.84	275.54	Begin 89.00° lateral	
22,350.50	11,901.00	-8,581.86	5,347.62	PBHL/TD 22350.50 MD/11901.00 TVD	

Area of Review**Sources of information to Support 35CSR8 - 5.11: 9.3 et seq.**

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

Data Sources Reviewed:

1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases
2. Farm Maps
3. Topo Maps: Recent and older (contact WVGES)
4. Check with DPS

Contacted Devin Ducoeur 724-705-0444, dducoeur@dpslandservices.com DPS GIS (03/09/2020) 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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Office of Oil and Gas
MAR 19 2020
WV Department of
Environmental Protection

4705102293

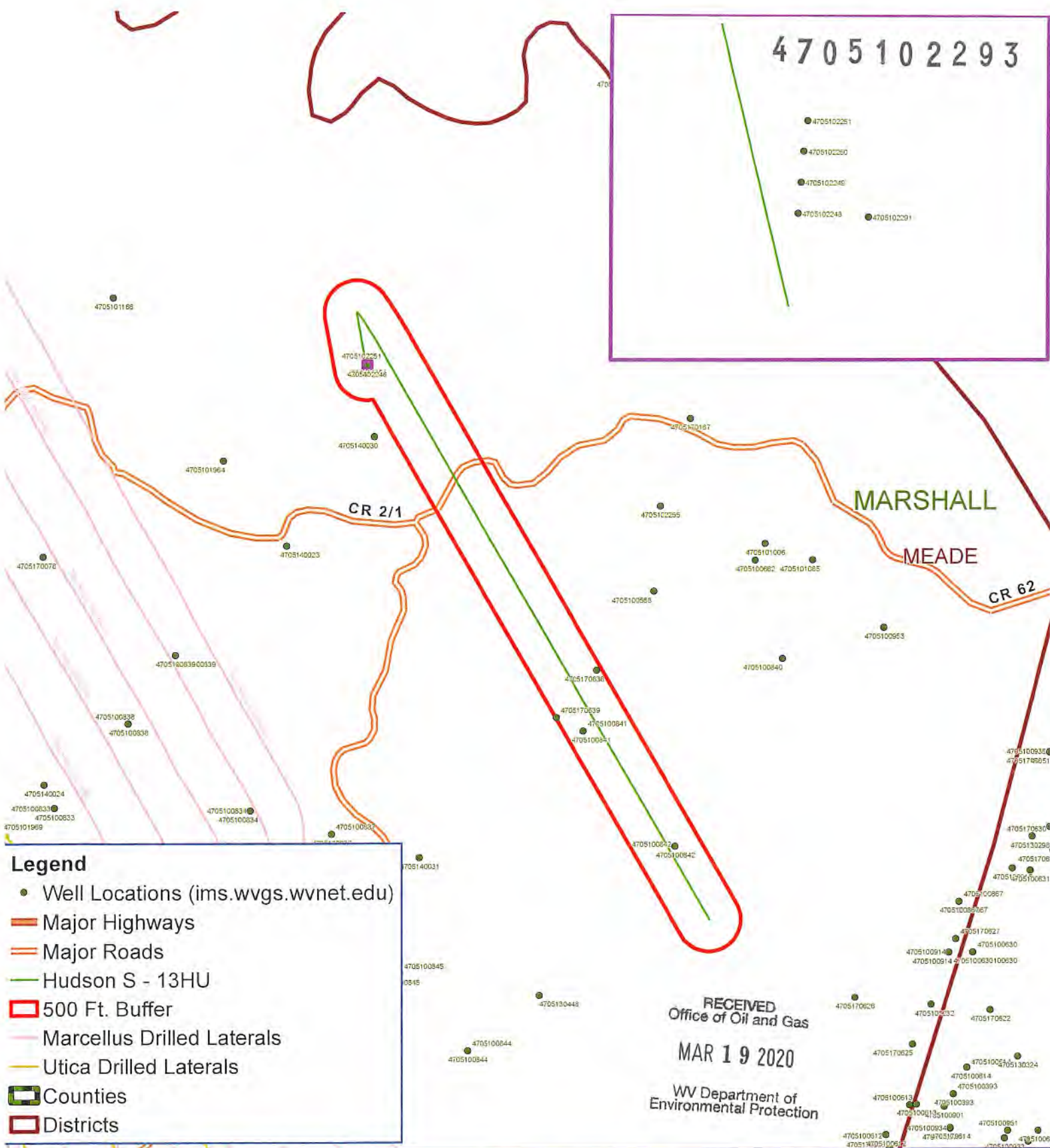
Permit well - Hudson S-13HU

Wells within 500' Buffer

Note: Well spots depicted on Area of Review map 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
47-051-70638	Unknown	Unknown	Unknown	Unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete.
47-051-70639	Unknown	Unknown	Unknown	Unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well.	State records are incomplete.
47-051-00841	McElroy Coal Company	Unknown	Unknown	Unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well. Well is plugged.	Well was plugged 4/27/1999.
47-051-00842	McElroy Coal Company	Unknown	Unknown	Unknown	Unknown but unlikely. The well likely represents an old shallow well that is too shallow to be effected by fracturing in the planned Point Pleasant well. Well is plugged.	Well was plugged 6/30/1999.
47-051-02251	Tug Hill Operating, LLC	None	None	None	No, existing Marcellus permit. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Currently a permit.
47-051-02250	Tug Hill Operating, LLC	None	None	None	No, existing Marcellus permit. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Currently a permit.
47-051-02249	Tug Hill Operating, LLC	None	None	None	No, existing Marcellus permit. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Currently a permit.
47-051-02248	Tug Hill Operating, LLC	None	None	None	No, existing Marcellus permit. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Currently a permit.
47-051-02291	Tug Hill Operating, LLC	None	None	None	No, existing Marcellus permit. The well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation.	Currently a permit.

RECEIVED
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Environmental Protection



Legend

- Well Locations (ims.wvgs.wvnet.edu)
- Major Highways
- Major Roads
- Hudson S - 13HU
- 500 Ft. Buffer
- Marcellus Drilled Laterals
- Utica Drilled Laterals
- ▭ Counties
- ▭ Districts

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MAR 19 2020
WV Department of
Environmental Protection



Hudson S - 13HU Meade District Marshall County, WV



Notes:

4705102293



Well Site Safety Plan

Tug Hill Operating, LLC

ju
3/11/2020

Well Name: Hudson S-13HU

Pad Location: Hudson Pad

Wetzel County, West Virginia

UTM (meters), NAD83, Zone 17:

Northing: 4,408,792.45

Easting: 528,006.42

March 2020

**HUDSON S LEASE
UTICA UNIT - 330.79 AC ±
WELL 13HU
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	CONSOLIDATION COAL CO.	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-3-19	CNX LAND CO. LLC	45 SQ. RODS & 3280 SQ. FT
9-5-13	SHELLY ANN JORDAN	5.51
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-8-1	CNX LAND CO. LLC	P.T. OF 1 AC.
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-4.1	CNX LAND RESOURCES, INC.	0.333
9-8-5.1	CNX LAND LLC	1.040

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

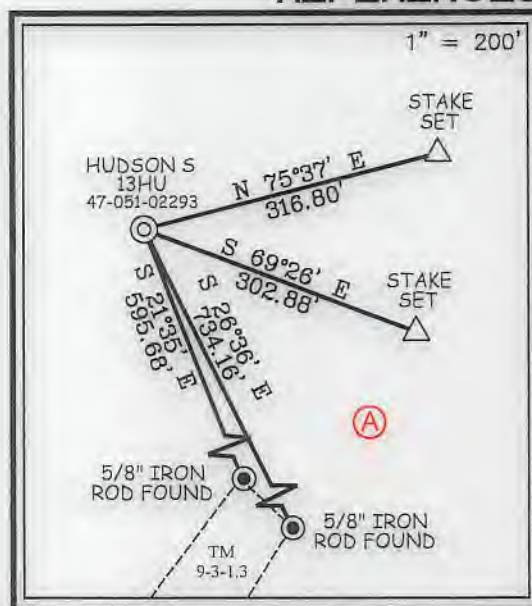
NAD'83 S.P.C.(FT)	N. 486,092.49	E. 1,639,154.94
NAD'83 GEO.	LAT-(N) 39.828667	LONG-(W) 80.672718
NAD'83 UTM (M)	N. 4,408,792.45	E. 528,006.42
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,294.8	E. 1,639,434.0
NAD'83 GEO.	LAT-(N) 39.829232	LONG-(W) 80.671734
NAD'83 UTM (M)	N. 4,408,855.5	E. 528,090.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,419.6	E. 1,644,360.1
NAD'83 GEO.	LAT-(N) 39.805044	LONG-(W) 80.653789
NAD'83 UTM (M)	N. 4,406,176.7	E. 529,636.4

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HUDSON S-13HU (47-051-02293) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-11HU (47-051-02296), HUDSON S-12HU (47-051-02292), HUDSON S-14HU (47-021-02327), HUDSON S-15HU (47-051-02328), HUDSON S-16HU (47-051-02329), FITZGERALD S-17HU (47-051-02324), FITZGERALD S-18HU (47-051-02325), FITZGERALD S-19HU (47-051-02326).
- MINIMUM OFFSET SPACING REQUIREMENTS EXEMPTED BY WAIVER WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS AND OFFSET LEASEHOLDER AGREEMENTS AS PROVIDED BY TUG HILL OPERATING.
- WV DOT/DDH OWNERSHIP WITHIN UNIT SET FORTH IN WW-6A1.



REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 23, 20 19
REVISED 10/22/19, 03/18/20, 07/14/20, 7/16/20, 08/07/20
OPERATORS WELL NO. HUDSON S-13HU
API WELL NO. 47 - 051 - 02293
STATE COUNTY PERMIT MOD

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P13HUR5.dwg HUDSON S-13HU REV6
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,370.20' ELEVATION PROPOSED = 1,344.81' WATERSHED GRAVE CREEK (HUC 10) DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±
PROPOSED WORK: LEASE NO. SEE WW-6A1

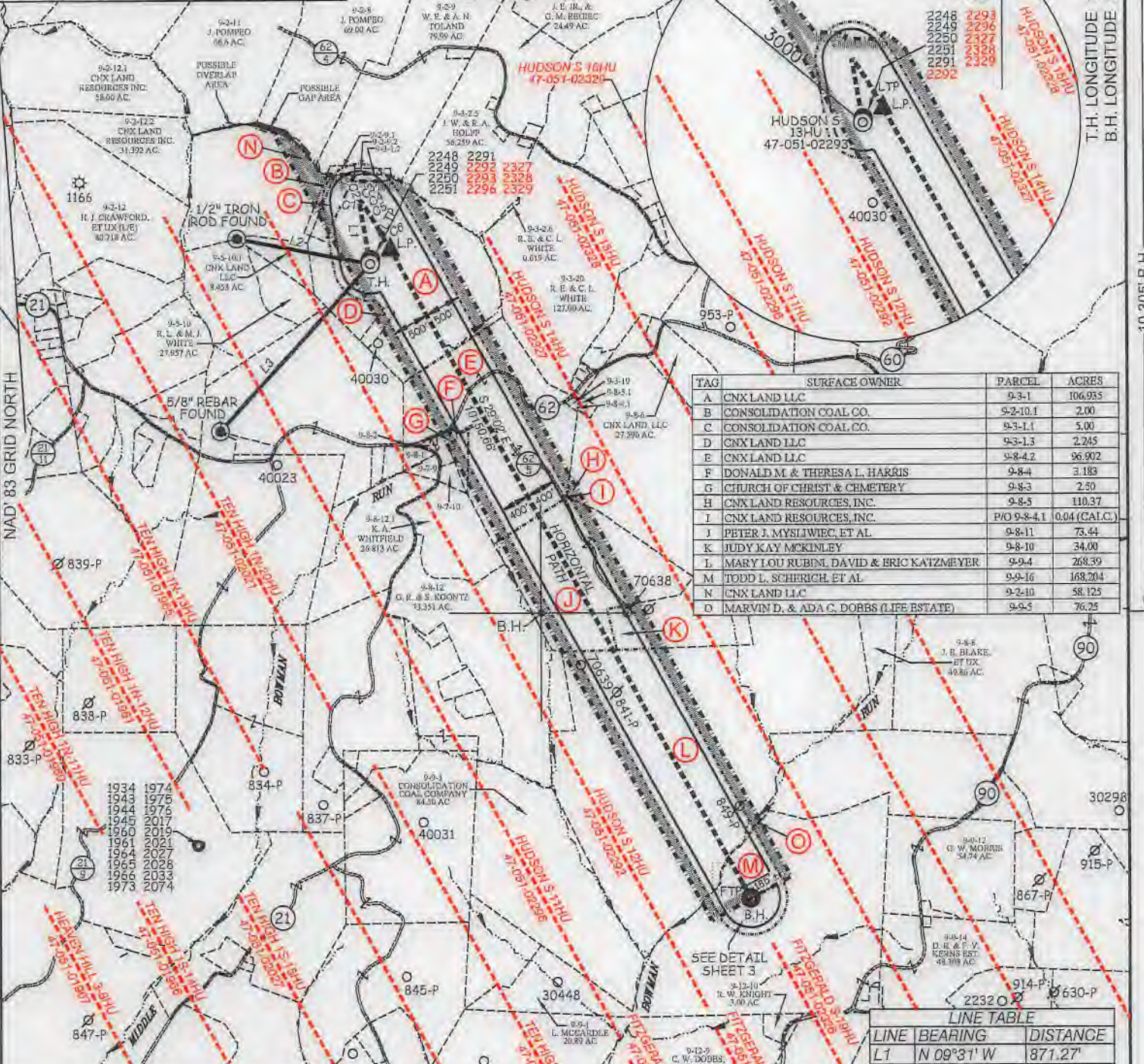
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,957' / TMD: 22,351'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

**HUDSON S LEASE
UTICA UNIT - 330.79 AC ±
WELL 13HU
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-2-10.1	2.00
C	CONSOLIDATION COAL CO.	9-3-1.1	5.00
D	CNX LAND LLC	9-3-1.3	2.245
E	CNX LAND LLC	9-8-4.2	96.902
F	DONALD M. & THERESA L. HARRIS	9-8-4	3.183
G	CHURCH OF CHRIST & CEMETERY	9-8-3	2.50
H	CNX LAND RESOURCES, INC.	9-8-5	110.37
I	CNX LAND RESOURCES, INC.	P/O 9-8-4.1	0.04 (CALC.)
J	PETER J. MYSLIWIEC, ET AL	9-8-11	73.44
K	JUDY KAY MCKINLEY	9-8-10	34.00
L	MARY LOU RUBIN, DAVID & ERIC KATZMEYER	9-9-4	268.39
M	TODD L. SCHERICH, ET AL	9-9-16	168.204
N	CNX LAND LLC	9-2-10	58.125
O	MARVIN D. & ADA C. DOBBS (LIFE ESTATE)	9-9-5	76.25

LINE	BEARING	DISTANCE
L1	N 09°31' W	871.27'
L2	N 79°05' W	1867.59'
L3	S 42°07' W	3085.21'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	8.32'	31.50'	N 01°12' W	8.29'
C2	7.74'	3.55'	N 65°42' E	6.29'
C3	13.41'	54.45'	S 50°51' E	13.38'
C4	56.36'	462.35'	S 38°50' E	56.33'
C5	299.37'	4275.49'	S 32°46' E	299.31'
C6	420.09'	11913.86'	S 29°59' E	420.07'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsww.com

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- UNIT BOUNDARY
- LEASED TRACTS INSIDE
- UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- PROPOSED FIRST TAKE POINT
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8911P13HUR5.dwg
 HUDSON S-13HU REV6
 DATE AUGUST 23, 20 19
 REVISED 10/22/19, 08/18/20, 07/14/20, 7/16/20, 08/07/20
 OPERATORS WELL NO. HUDSON S-13HU MOD
 API WELL 47 - 051 - 02293
 NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
 DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

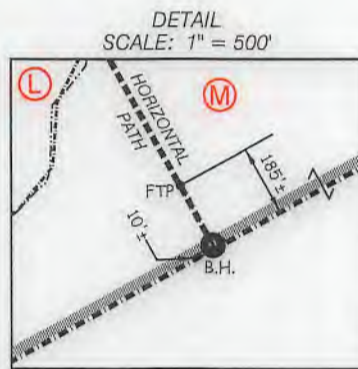
COUNTY NAME PERMIT

**HUDSON S LEASE
UTICA UNIT -330.79 AC±
WELL 13HU
TUG HILL OPERATING**



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
siswv.com

NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*26711	9-2-10.1	B	CNX GAS COMPANY LLC	1074	593
3	10*26044	9-3-1.1	C	JOYCE A WALLACE, ET AL	863	296
4	10*26018	9-3-1.3	D	NANCY L WEST, ET AL	737	248
5	10*47051.109.0	9-8-4.2	E	DONALD M AND THERESA L HARRIS	859	440
6	10*47051.109.0	9-8-4	F	DONALD M AND THERESA L HARRIS	859	440
7	10*26113	9-8-3	G	ELDWIN OTIS RINE AND MARY L RINE, ET AL	880	434
8	10*23739	9-8-5	H	APPALACHIAN BASIN MINERALS LP, ET AL	1011	538
9	10*22760	9-8-4.1	I	DONALD M AND THERESA L HARRIS, ET AL	968	294
10	10*22745	9-8-11	J	BONNIE J JENKINS, ET AL	968	288
11	10*21246	9-8-10	K	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR, ET AL	952	422
12	10*31001	9-9-4	L	ERIC KATZMEYER, ET AL	791	226
13	10*19987	9-9-16	M	LESLEY D BALLA, ET AL	955	103
14	10*26001	9-2-10	N	FREDDIE C WHITE AND VIOLET L WHITE	655	555
15	10*28244	9-9-5	O	MICHAEL D DOBBS AND STEPHANIE J DOBBS, ET AL	1068	569



FILE NO. 8911P13HUR5.dwg
HUDSON S-11HU REV6

DATE AUGUST 23, 20 19

REVISED 10/22/19, 03/18/20, 07/14/20, 7/16/20, 08/07/20

OPERATORS WELL NO. HUDSON S-11HU

API WELL NO. 47 — 051 — 02293
STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
DIVISION OF
ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



P.S.
849

C. Victor Moyers

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER
ADDRESS CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME
PERMIT

WW-6A1
(5/13)

Operator's Well No. Hudson S-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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
-------------------------	-----------------------	-----------------------	---------	-----------

*See attached pages

***Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.**

**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 *Amy Miller*
 Its: Permitting Specialist - Appalachia Region

4705102293

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE	CHEESAPEAKE APPALACHIA LLC	1/8+	728 527	N/A	N/A	N/A	N/A	N/A	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 27/386	Statoil USA Onshore Properties Inc to Chevron USA Inc: 30/427	Chesapeake Appalachia LLC to Chevron USA Inc: 30/461	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26044	9-3-1	A	JOYCE A WALLACE	CHEVRON USA INC	1/8+	863 296	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26047	9-3-1	A	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE	CHEVRON USA INC	1/8+	863 138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26048	9-3-1	A	LOIS J ELIAS AND LOUIS J ELIAS	CHEVRON USA INC	1/8+	861 599	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26049	9-3-1	A	MARY H HUBBS	CHEVRON USA INC	1/8+	863 560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26050	9-3-1	A	BERNARD O CROW AND KAREN S CROW	CHEVRON USA INC	1/8+	863 627	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26051	9-3-1	A	ROBERT W KIDNER	CHEVRON USA INC	1/8+	863 644	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26052	9-3-1	A	BETTY J BLAKE	CHEVRON USA INC	1/8+	863 545	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26053	9-3-1	A	ANTHONY T MOORE	CHEVRON USA INC	1/8+	854 343	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26054	9-3-1	A	HIRAM VERNON MOORE	CHEVRON USA INC	1/8+	854 353	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26055	9-3-1	A	LARRY W MOORE SR	CHEVRON USA INC	1/8+	854 348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26056	9-3-1	A	RONALD W MOORE	CHEVRON USA INC	1/8+	854 338	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26057	9-3-1	A	JOHN PURDY AND BRENDA S PURDY	CHEVRON USA INC	1/8+	854 420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26058	9-3-1	A	CAROLE J WOOD	CHEVRON USA INC	1/8+	854 415	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26059	9-3-1	A	TERRY L BLAKE	CHEVRON USA INC	1/8+	854 215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26060	9-3-1	A	ROBERT C BLAKE AND LYN BLAKE	CHEVRON USA INC	1/8+	854 333	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26061	9-3-1	A	RODNEY W AND LINDA L HUBBS	CHEVRON USA INC	1/8+	854 435	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26062	9-3-1	A	SHANNON ROGER AND LORRAINE HUBBS	CHEVRON USA INC	1/8+	854 233	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26063	9-3-1	A	PATTY L RINE AND FLOYD D RINE	CHEVRON USA INC	1/8+	854 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26064	9-3-1	A	CATHARINE LEE BLAKE	CHEVRON USA INC	1/8+	863 550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26066	9-3-1	A	DANNY E AND MARVA L BEYSER	CHEVRON USA INC	1/8+	858 36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26067	9-3-1	A	DONALD DEAN BEYSER	CHEVRON USA INC	1/8+	858 41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26068	9-3-1	A	GARY F BLAKE AND DORIS E BLAKE	CHEVRON USA INC	1/8+	858 31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26069	9-3-1	A	MARILYN SUE REILLEY	CHEVRON USA INC	1/8+	857 597	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26070	9-3-1	A	MARY W HOLMES	CHEVRON USA INC	1/8+	857 602	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26071	9-3-1	A	CHARLENE LORRAINE BAKER	CHEVRON USA INC	1/8+	857 607	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26072	9-3-1	A	JAMES L BLAKE	CHEVRON USA INC	1/8+	857 616	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26073	9-3-1	A	DARLENE L BEYSER	CHEVRON USA INC	1/8+	860 176	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26074	9-3-1	A	RANDYLYN MOORE AKA RANDY MOORE	CHEVRON USA INC	1/8+	860 166	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26075	9-3-1	A	BETTY JOANN CECIL	CHEVRON USA INC	1/8+	860 119	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26076	9-3-1	A	DORIS IMOGENE GARRISON	CHEVRON USA INC	1/8+	860 114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26077	9-3-1	A	DOROTHY J AND ROBERT M BLAKE	CHEVRON USA INC	1/8+	860 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26078	9-3-1	A	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	860 228	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26079	9-3-1	A	MARY O'DESSA HARRIS LOUDEN	CHEVRON USA INC	1/8+	860 109	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26080	9-3-1	A	SHARON DIANE HOLMES JAHN AND WILLIAM HENRY JAHN III - W/H	CHEVRON USA INC	1/8+	860 217	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26081	9-3-1	A	CYNTHIA JEAN AND EDDIE W WILSON	CHEVRON USA INC	1/8+	861 545	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26082	9-3-1	A	BRIAN C AND SARA M LUTZ	CHEVRON USA INC	1/8+	861 550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26083	9-3-1	A	WILLIAM S BLAKE JR	CHEVRON USA INC	1/8+	861 535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26084	9-3-1	A	CYNTHIA A AND JAMES O DAVIDSON	CHEVRON USA INC	1/8+	889 46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26085	9-3-1	A	CLYDE R AND JANA HIGGINS	CHEVRON USA INC	1/8+	861 508	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26086	9-3-1	A	DELMAS W AND ROSE HIGGINS	CHEVRON USA INC	1/8+	861 503	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26087	9-3-1	A	JERRY L AND DENISE HIGGINS	CHEVRON USA INC	1/8+	861 526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26088	9-3-1	A	SHIRL W AND DORIS HIGGINS	CHEVRON USA INC	1/8+	861 540	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26089	9-3-1	A	ALVA L AND SHIRLEY HIGGINS	CHEVRON USA INC	1/8+	861 521	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26090	9-3-1	A	H DEAN AND KAREN HIGGINS	CHEVRON USA INC	1/8+	861 516	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26091	9-3-1	A	JOELENE M MANN	CHEVRON USA INC	1/8+	864 55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26092	9-3-1	A	SHAWN J AND SARAH E CREWS	CHEVRON USA INC	1/8+	864 50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26093	9-3-1	A	JOYCE HOLMES CONE AND WILLIAM CONE - W/H	CHEVRON USA INC	1/8+	861 493	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26094	9-3-1	A	MARK L CURRY	CHEVRON USA INC	1/8+	865 102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26095	9-3-1	A	CHRISTINA C MUNSON	CHEVRON USA INC	1/8+	865 107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26097	9-3-1	A	DAVID L BEYSER	CHEVRON USA INC	1/8+	865 173	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26098	9-3-1	A	KIMBERLY J HOLDER	CHEVRON USA INC	1/8+	867 87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26099	9-3-1	A	CAROL TROWBRIDGE ET VIR	CHEVRON USA INC	1/8+	866 138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26100	9-3-1	A	JOSEPH L AND ROSE MARIE MAUPIN	CHEVRON USA INC	1/8+	866 67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26120	9-3-1	A	JAMES D AND LINDA D YOCUM	CHEVRON USA INC	1/8+	884 635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26121	9-3-1	A	BETTY BRYNER	CHEVRON USA INC	1/8+	871 64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26236	9-3-1	A	GERALD W QUIGLEY AND VICKI L QUIGLEY	CHEVRON USA INC	1/8+	884 50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26237	9-3-1	A	FREDA L CAMPBELL	CHEVRON USA INC	1/8+	889 40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26238	9-3-1	A	MARSHA L MERCER	CHEVRON USA INC	1/8+	883 639	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26287	9-3-1	A	IVAN R AND MARY A BLAKE	CHEVRON USA INC	1/8+	888 542	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26288	9-3-1	A	REBECCA J BLAKE	CHEVRON USA INC	1/8+	888 571	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26289	9-3-1	A	DUANETTA B BLAKE FROMHART	CHEVRON USA INC	1/8+	888 574	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26291	9-3-1	A	BARBARA A BLAKE MASON	CHEVRON USA INC	1/8+	901 125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26292	9-3-1	A	JUDITH L BLAKE	CHEVRON USA INC	1/8+	882	329	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26293	9-3-1	A	JAY C CURRY	CHEVRON USA INC	1/8+	882	433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26294	9-3-1	A	JOAN A GIEGER	CHEVRON USA INC	1/8+	880	509	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26295	9-3-1	A	ARTHUR LEE WARYCK	CHEVRON USA INC	1/8+	880	512	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26296	9-3-1	A	CARL G CALDWELL	CHEVRON USA INC	1/8+	883	530	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26297	9-3-1	A	DIANA L MCKINNEY	CHEVRON USA INC	1/8+	885	560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26298	9-3-1	A	JANE HENDRICKSON	CHEVRON USA INC	1/8+	886	429	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26299	9-3-1	A	BETTY WILKINSON DANIEL A MCVANE AIF	CHEVRON USA INC	1/8+	886	432	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26300	9-3-1	A	JILL LORI HENNEN BARNETT	CHEVRON USA INC	1/8+	886	439	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27180	9-3-1	A	TAMALA SCOLLICK	TH EXPLORATION LLC	1/8+	1053	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27181	9-3-1	A	CRYSTAL THOMAS	TH EXPLORATION LLC	1/8+	1052	648	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27703	9-3-1	A	RONALD W MOORE	TH EXPLORATION LLC	1/8+	1061	255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26711	9-2-10.1	B	CNX GAS COMPANY LLC	TH EXPLORATION LLC	1/8+	1074	593	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26044	9-3-1.1	C	JOYCE A WALLACE	CHEVRON USA INC	1/8+	863	296	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26047	9-3-1.1	C	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE	CHEVRON USA INC	1/8+	863	138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26048	9-3-1.1	C	LOIS J ELIAS AND LOUIS J ELIAS	CHEVRON USA INC	1/8+	861	599	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26049	9-3-1.1	C	MARY H HUBBS	CHEVRON USA INC	1/8+	863	560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26050	9-3-1.1	C	BERNARD O CROW AND KAREN S CROW	CHEVRON USA INC	1/8+	863	627	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26051	9-3-1.1	C	ROBERT W KIDNER	CHEVRON USA INC	1/8+	863	644	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26052	9-3-1.1	C	BETTY J BLAKE	CHEVRON USA INC	1/8+	863	545	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26053	9-3-1.1	C	ANTHONY T MOORE	CHEVRON USA INC	1/8+	854	343	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26054	9-3-1.1	C	HIRAM VERNON MOORE	CHEVRON USA INC	1/8+	854	353	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26055	9-3-1.1	C	LARRY W MOORE SR	CHEVRON USA INC	1/8+	854	348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*26056	9-3-1.1	C	RONALD W MOORE	CHEVRON USA INC	1/8+	854	338	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26057	9-3-1.1	C	JOHN PURDY AND BRENDA S PURDY	CHEVRON USA INC	1/8+	854	420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26058	9-3-1.1	C	CAROLE J WOOD	CHEVRON USA INC	1/8+	854	415	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26059	9-3-1.1	C	TERRY L BLAKE	CHEVRON USA INC	1/8+	854	215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26060	9-3-1.1	C	ROBERT C BLAKE AND LYN BLAKE	CHEVRON USA INC	1/8+	854	333	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26061	9-3-1.1	C	RODNEY W AND LINDA L HUBBS	CHEVRON USA INC	1/8+	854	435	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26062	9-3-1.1	C	SHANNON ROGER AND LORRAINE HUBBS	CHEVRON USA INC	1/8+	854	233	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26063	9-3-1.1	C	PATTY L RINE AND FLOYD D RINE	CHEVRON USA INC	1/8+	854	238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26064	9-3-1.1	C	CATHARINE LEE BLAKE	CHEVRON USA INC	1/8+	863	550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26066	9-3-1.1	C	DANNY E AND MARVA L BEYSER	CHEVRON USA INC	1/8+	858	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26067	9-3-1.1	C	DONALD DEAN BEYSER	CHEVRON USA INC	1/8+	858	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26068	9-3-1.1	C	GARY F BLAKE AND DORIS E BLAKE	CHEVRON USA INC	1/8+	858	31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26069	9-3-1.1	C	MARILYN SUE REILLEY	CHEVRON USA INC	1/8+	857	597	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26070	9-3-1.1	C	MARY W HOLMES	CHEVRON USA INC	1/8+	857	602	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26071	9-3-1.1	C	CHARLENE LORRAINE BAKER	CHEVRON USA INC	1/8+	857	607	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26072	9-3-1.1	C	JAMES L BLAKE	CHEVRON USA INC	1/8+	857	616	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26073	9-3-1.1	C	DARLENE L BEYSER	CHEVRON USA INC	1/8+	860	176	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26074	9-3-1.1	C	RANDLYN MOORE AKA RANDY MOORE	CHEVRON USA INC	1/8+	860	166	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26075	9-3-1.1	C	BETTY JOANN CECIL	CHEVRON USA INC	1/8+	860	119	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26076	9-3-1.1	C	DORIS IMOGENE GARRISON	CHEVRON USA INC	1/8+	860	114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26077	9-3-1.1	C	DOROTHY J AND ROBERT M BLAKE	CHEVRON USA INC	1/8+	860	104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26078	9-3-1.1	C	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	860	228	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26079	9-3-1.1	C	MARY O'DESSA HARRIS LOUDEN	CHEVRON USA INC	1/8+	860	109	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26080	9-3-1.1	C	SHARON DIANE HOLMES JAHN AND WILLIAM HENRY JAHN III - W/H	CHEVRON USA INC	1/8+	860	217	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26081	9-3-1.1	C	CYNTHIA JEAN AND EDDIE W WILSON	CHEVRON USA INC	1/8+	861	545	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26082	9-3-1.1	C	BRIAN C AND SARA M LUTZ	CHEVRON USA INC	1/8+	861	550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26083	9-3-1.1	C	WILLIAM S BLAKE JR	CHEVRON USA INC	1/8+	861	535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26084	9-3-1.1	C	CYNTHIA A AND JAMES O DAVIDSON	CHEVRON USA INC	1/8+	889	46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26085	9-3-1.1	C	CLYDE R AND JANA HIGGINS	CHEVRON USA INC	1/8+	861	508	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26086	9-3-1.1	C	DELMAS W AND ROSE HIGGINS	CHEVRON USA INC	1/8+	861	503	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26087	9-3-1.1	C	JERRY L AND DENISE HIGGINS	CHEVRON USA INC	1/8+	861	526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26088	9-3-1.1	C	SHIRL W AND DORIS HIGGINS	CHEVRON USA INC	1/8+	861	540	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26089	9-3-1.1	C	ALVA L AND SHIRLEY HIGGINS	CHEVRON USA INC	1/8+	861	521	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26090	9-3-1.1	C	H DEAN AND KAREN HIGGINS	CHEVRON USA INC	1/8+	861	516	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26091	9-3-1.1	C	JOELENE M MANN	CHEVRON USA INC	1/8+	864	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26092	9-3-1.1	C	SHAWN J AND SARAH E CREWS	CHEVRON USA INC	1/8+	864	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26093	9-3-1.1	C	JOYCE HOLMES CONE AND WILLIAM CONE - W/H	CHEVRON USA INC	1/8+	861	493	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26094	9-3-1.1	C	MARK L CURRY	CHEVRON USA INC	1/8+	865	102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26095	9-3-1.1	C	CHRISTINA C MUNSON	CHEVRON USA INC	1/8+	865	107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26097	9-3-1.1	C	DAVID L BEYSER	CHEVRON USA INC	1/8+	865	173	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26098	9-3-1.1	C	KIMBERLY J HOLDER	CHEVRON USA INC	1/8+	867	87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26099	9-3-1.1	C	CAROL TROWBRIDGE ET VIR	CHEVRON USA INC	1/8+	866	138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26100	9-3-1.1	C	JOSEPH L AND ROSE MARIE MAUPIN	CHEVRON USA INC	1/8+	866 67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26120	9-3-1.1	C	JAMES D AND LINDA D YOCUM	CHEVRON USA INC	1/8+	884 635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26121	9-3-1.1	C	BETTY BRYNER	CHEVRON USA INC	1/8+	871 64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26236	9-3-1.1	C	GERALD W QUIGLEY AND VICKI L QUIGLEY	CHEVRON USA INC	1/8+	884 50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26237	9-3-1.1	C	FREDA L CAMPBELL	CHEVRON USA INC	1/8+	889 40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26238	9-3-1.1	C	MARSHA L MERCER	CHEVRON USA INC	1/8+	883 639	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26287	9-3-1.1	C	IVAN R AND MARY A BLAKE	CHEVRON USA INC	1/8+	888 542	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26288	9-3-1.1	C	REBECCA J BLAKE	CHEVRON USA INC	1/8+	888 571	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26289	9-3-1.1	C	DUANETTA B BLAKE FROMHART	CHEVRON USA INC	1/8+	888 574	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26291	9-3-1.1	C	BARBARA A BLAKE MASON	CHEVRON USA INC	1/8+	901 125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26292	9-3-1.1	C	JUDITH L BLAKE	CHEVRON USA INC	1/8+	882 329	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26293	9-3-1.1	C	JAY C CURRY	CHEVRON USA INC	1/8+	882 433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26294	9-3-1.1	C	JOAN A GIEGER	CHEVRON USA INC	1/8+	880 509	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26295	9-3-1.1	C	ARTHUR LEE WARYCK	CHEVRON USA INC	1/8+	880 512	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26296	9-3-1.1	C	CARL G CALDWELL	CHEVRON USA INC	1/8+	883 530	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26297	9-3-1.1	C	DIANA L MCKINNEY	CHEVRON USA INC	1/8+	885 560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26298	9-3-1.1	C	JANE HENDRICKSON	CHEVRON USA INC	1/8+	886 429	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26299	9-3-1.1	C	BETTY WILKINSON DANIEL A MCVANE AIF	CHEVRON USA INC	1/8+	886 432	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26300	9-3-1.1	C	JILL LORI HENNEN BARNETT	CHEVRON USA INC	1/8+	886 439	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26711	9-3-1.1	C	CNX GAS COMPANY LLC	TH EXPLORATION LLC	1/8+	1039 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27180	9-3-1.1	C	TAMALA SCOLLICK	TH EXPLORATION LLC	1/8+	1053 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27181	9-3-1.1	C	CRYSTAL THOMAS	TH EXPLORATION LLC	1/8+	1052 648	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*27703	9-3-1.1	C	RONALD W MOORE	TH EXPLORATION LLC	1/8+	1061 255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26018	9-3-1.3	D	NANCY L WEST	TRIENERGY HOLDINGS LLC	1/8+	737 248	N/A	N/A	N/A	N/A	N/A	N/A	TriEnergy Holdings LLC to NPAR LLC: 25/449	NPAR LLC to Chevron USA Inc: 756/332	TriEnergy Inc to Chevron USA Inc: 28356	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26044	9-3-1.3	D	JOYCE A WALLACE	CHEVRON USA INC	1/8+	863 296	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26047	9-3-1.3	D	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE	CHEVRON USA INC	1/8+	863 138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26048	9-3-1.3	D	LOIS J ELIAS AND LOUIS J ELIAS	CHEVRON USA INC	1/8+	861 599	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26049	9-3-1.3	D	MARY H HUBBS	CHEVRON USA INC	1/8+	863 560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26050	9-3-1.3	D	BERNARD O CROW AND KAREN S CROW	CHEVRON USA INC	1/8+	863 627	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26051	9-3-1.3	D	ROBERT W KIDNER	CHEVRON USA INC	1/8+	863 644	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26052	9-3-1.3	D	BETTY J BLAKE	CHEVRON USA INC	1/8+	863 545	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26053	9-3-1.3	D	ANTHONY T MOORE	CHEVRON USA INC	1/8+	854 343	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26054	9-3-1.3	D	HIRAM VERNON MOORE	CHEVRON USA INC	1/8+	854 353	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26055	9-3-1.3	D	LARRY W MOORE SR	CHEVRON USA INC	1/8+	854 348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26056	9-3-1.3	D	RONALD W MOORE	CHEVRON USA INC	1/8+	854 338	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26057	9-3-1.3	D	JOHN PURDY AND BRENDA S PURDY	CHEVRON USA INC	1/8+	854 420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26058	9-3-1.3	D	CAROLE J WOOD	CHEVRON USA INC	1/8+	854 415	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26059	9-3-1.3	D	TERRY L BLAKE	CHEVRON USA INC	1/8+	854 215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26060	9-3-1.3	D	ROBERT C BLAKE AND LYN BLAKE	CHEVRON USA INC	1/8+	854 333	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26061	9-3-1.3	D	RODNEY W AND LINDA L HUBBS	CHEVRON USA INC	1/8+	854 435	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26062	9-3-1.3	D	SHANNON ROGER AND LORRAINE HUBBS	CHEVRON USA INC	1/8+	854 233	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26063	9-3-1.3	D	PATTY L RINE AND FLOYD D RINE	CHEVRON USA INC	1/8+	854 238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26064	9-3-1.3	D	CATHARINE LEE BLAKE	CHEVRON USA INC	1/8+	863 550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26066	9-3-1.3	D	DANNY E AND MARVA L BEYSER	CHEVRON USA INC	1/8+	858 36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26067	9-3-1.3	D	DONALD DEAN BEYSER	CHEVRON USA INC	1/8+	858 41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26068	9-3-1.3	D	GARY F BLAKE AND DORIS E BLAKE	CHEVRON USA INC	1/8+	858 31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26069	9-3-1.3	D	MARILYN SUE REILLEY	CHEVRON USA INC	1/8+	857 597	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26070	9-3-1.3	D	MARY W HOLMES	CHEVRON USA INC	1/8+	857 602	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26071	9-3-1.3	D	CHARLENE LORRAINE BAKER	CHEVRON USA INC	1/8+	857 607	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26072	9-3-1.3	D	JAMES L BLAKE	CHEVRON USA INC	1/8+	857 616	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26073	9-3-1.3	D	DARLENE L BEYSER	CHEVRON USA INC	1/8+	860 176	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26074	9-3-1.3	D	RANDYLYN MOORE AKA RANDY MOORE	CHEVRON USA INC	1/8+	860 166	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26075	9-3-1.3	D	BETTY JOANN CECIL	CHEVRON USA INC	1/8+	860 119	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26076	9-3-1.3	D	DORIS IMOGENE GARRISON	CHEVRON USA INC	1/8+	860 114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26077	9-3-1.3	D	DOROTHY J AND ROBERT M BLAKE	CHEVRON USA INC	1/8+	860 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26078	9-3-1.3	D	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	860 228	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26079	9-3-1.3	D	MARY O'DESSA HARRIS LOUDEN	CHEVRON USA INC	1/8+	860 109	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26080	9-3-1.3	D	SHARON DIANE HOLMES JAHN AND WILLIAM HENRY JAHN III - W/H	CHEVRON USA INC	1/8+	860 217	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26081	9-3-1.3	D	CYNTHIA JEAN AND EDDIE W WILSON	CHEVRON USA INC	1/8+	861 545	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26082	9-3-1.3	D	BRIAN C AND SARA M LUTZ	CHEVRON USA INC	1/8+	861 550	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26083	9-3-1.3	D	WILLIAM S BLAKE JR	CHEVRON USA INC	1/8+	861 535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26084	9-3-1.3	D	CYNTHIA A AND JAMES O DAVIDSON	CHEVRON USA INC	1/8+	889 46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26085	9-3-1.3	D	CLYDE R AND JANA HIGGINS	CHEVRON USA INC	1/8+	861 508	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26086	9-3-1.3	D	DELMAS W AND ROSE HIGGINS	CHEVRON USA INC	1/8+	861 503	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26087	9-3-1.3	D	JERRY L AND DENISE HIGGINS	CHEVRON USA INC	1/8+	861	526	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26088	9-3-1.3	D	SHIRL W AND DORIS HIGGINS	CHEVRON USA INC	1/8+	861	540	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26089	9-3-1.3	D	ALVA L AND SHIRLEY HIGGINS	CHEVRON USA INC	1/8+	861	521	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26090	9-3-1.3	D	H DEAN AND KAREN HIGGINS	CHEVRON USA INC	1/8+	861	516	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26091	9-3-1.3	D	JOELENE M MANN	CHEVRON USA INC	1/8+	864	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26092	9-3-1.3	D	SHAWN J AND SARAH E CREWS	CHEVRON USA INC	1/8+	864	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26093	9-3-1.3	D	JOYCE HOLMES CONE AND WILLIAM CONE - W/H	CHEVRON USA INC	1/8+	861	493	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26094	9-3-1.3	D	MARK L CURRY	CHEVRON USA INC	1/8+	865	102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26095	9-3-1.3	D	CHRISTINA C MUNSON	CHEVRON USA INC	1/8+	865	107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26097	9-3-1.3	D	DAVID L BEYSER	CHEVRON USA INC	1/8+	865	173	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26098	9-3-1.3	D	KIMBERLY J HOLDER	CHEVRON USA INC	1/8+	867	87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26099	9-3-1.3	D	CAROL TROWBRIDGE ET VIR	CHEVRON USA INC	1/8+	866	138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26100	9-3-1.3	D	JOSEPH L AND ROSE MARIE MAUPIN	CHEVRON USA INC	1/8+	866	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26120	9-3-1.3	D	JAMES D AND LINDA D YOCUM	CHEVRON USA INC	1/8+	884	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26121	9-3-1.3	D	BETTY BRYNER	CHEVRON USA INC	1/8+	871	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26236	9-3-1.3	D	GERALD W QUIGLEY AND VICKI L QUIGLEY	CHEVRON USA INC	1/8+	884	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26237	9-3-1.3	D	FREDA L CAMPBELL	CHEVRON USA INC	1/8+	889	40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26238	9-3-1.3	D	MARSHA L MERCER	CHEVRON USA INC	1/8+	883	639	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26287	9-3-1.3	D	IVAN R AND MARY A BLAKE	CHEVRON USA INC	1/8+	888	542	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26288	9-3-1.3	D	REBECCA J BLAKE	CHEVRON USA INC	1/8+	888	571	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26289	9-3-1.3	D	DUANETTA B BLAKE FROMHART	CHEVRON USA INC	1/8+	888	574	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26291	9-3-1.3	D	BARBARA A BLAKE MASON	CHEVRON USA INC	1/8+	901	125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26292	9-3-1.3	D	JUDITH L BLAKE	CHEVRON USA INC	1/8+	882	329	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26293	9-3-1.3	D	JAY C CURRY	CHEVRON USA INC	1/8+	882	433	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26294	9-3-1.3	D	JOAN A GIEGER	CHEVRON USA INC	1/8+	880	509	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26295	9-3-1.3	D	ARTHUR LEE WARYCK	CHEVRON USA INC	1/8+	880	512	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26296	9-3-1.3	D	CARL G CALDWELL	CHEVRON USA INC	1/8+	883	530	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26297	9-3-1.3	D	DIANA L MCKINNEY	CHEVRON USA INC	1/8+	885	560	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26298	9-3-1.3	D	JANE HENDRICKSON	CHEVRON USA INC	1/8+	886	429	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26299	9-3-1.3	D	BETTY WILKINSON DANIEL A MCVANE AIF	CHEVRON USA INC	1/8+	886	432	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26300	9-3-1.3	D	JILL LORI HENNER BARNETT	CHEVRON USA INC	1/8+	886	439	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27180	9-3-1.3	D	TAMALA SCOLLIK	TH EXPLORATION LLC	1/8+	1053	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27181	9-3-1.3	D	CRYSTAL THOMAS	TH EXPLORATION LLC	1/8+	1052	648	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27703	9-3-1.3	D	RONALD W MOORE	TH EXPLORATION LLC	1/8+	1061	255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*47051.109.0	9-8-4.2	E	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	859	440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*47051.109.0	9-8-4	F	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	859	440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*26113	9-8-3	G	ELDWIN OTIS RINE AND MARY L RINE	CHEVRON USA INC	1/8+	880	434	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26114	9-8-3	G	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	873	574	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26115	9-8-3	G	JOYCE L LAMB	CHEVRON USA INC	1/8+	880	437	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26123	9-8-3	G	LAURA R BARKER	CHEVRON USA INC	1/8+	873	584	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26124	9-8-3	G	PATTY D JEFFERSON	CHEVRON USA INC	1/8+	874	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26125	9-8-3	G	DEBORAH A COLLINS	CHEVRON USA INC	1/8+	874	27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26126	9-8-3	G	WILLIAM C WEST	CHEVRON USA INC	1/8+	880	431	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26168	9-8-3	G	LEANNE E BURKHART	CHEVRON USA INC	1/8+	873	602	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26169	9-8-3	G	LISA MAY WINGROVE	CHEVRON USA INC	1/8+	880	422	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26170	9-8-3	G	JENNIFER L WALKER	CHEVRON USA INC	1/8+	874	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26171	9-8-3	G	MELISSA NADINE KNIGHT	CHEVRON USA INC	1/8+	873	590	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26172	9-8-3	G	NELDA RUTH MOORE	CHEVRON USA INC	1/8+	873	593	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26173	9-8-3	G	DEANNE E ANDERSON	CHEVRON USA INC	1/8+	874	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26174	9-8-3	G	JANICE M BURKHART	CHEVRON USA INC	1/8+	873	599	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26175	9-8-3	G	CAROL LYNN KELCH	CHEVRON USA INC	1/8+	880	425	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26176	9-8-3	G	LINDA L AGUILAR	CHEVRON USA INC	1/8+	874	33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26177	9-8-3	G	OTIS R BURKHART JR	CHEVRON USA INC	1/8+	873	587	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26178	9-8-3	G	MELBA L BELL	CHEVRON USA INC	1/8+	873	577	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26179	9-8-3	G	HILLVIEW TERRACE CHURCH OF CHRIST D/B/A WEST VIRGINIA SCHOOL OF PREACHING	CHEVRON USA INC	1/8+	873	580	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26196	9-8-3	G	CHRISTINA ROSE BUTLER	CHEVRON USA INC	1/8+	876	298	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26197	9-8-3	G	RONALD DEAN BURKHART	CHEVRON USA INC	1/8+	876	301	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26198	9-8-3	G	SALEM CHURCH OF CHRIST OF GLEN EASTON WV	CHEVRON USA INC	1/8+	876	304	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26199	9-8-3	G	DANIEL M RINE	CHEVRON USA INC	1/8+	880	457	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26200	9-8-3	G	DEBRA A CLARK	CHEVRON USA INC	1/8+	880	454	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26242	9-8-3	G	TRACI LYNN GOODNIGHT	CHEVRON USA INC	1/8+	882	173	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26243	9-8-3	G	MARLA JEAN TRUEX	CHEVRON USA INC	1/8+	882	164	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26244	9-8-3	G	BRENDA KAY LAVENSKI	CHEVRON USA INC	1/8+	882	167	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26245	9-8-3	G	TERESA ANN HARTLE	CHEVRON USA INC	1/8+	882	326	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26246	9-8-3	G	LISA MARIE WILLIAMS	CHEVRON USA INC	1/8+	882	170	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26247	9-8-3	G	CYNTHIA L BOUGHER	CHEVRON USA INC	1/8+	884	27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*47051.109.0	9-8-4.2	G	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	859	440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23739	9-8-5	H	APPALACHIAN BASIN MINERALS LP	TH EXPLORATION LLC	1/8+	1011	538	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23740	9-8-5	H	PENNMARC RESOURCES II LP	TH EXPLORATION LLC	1/8+	1011	532	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23741	9-8-5	H	MCCROW ENERGY PARTNERS II LLC	TH EXPLORATION LLC	1/8+	1011	515	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23742	9-8-5	H	PURPLEBURGH VENTURES, LLC	TH EXPLORATION LLC	1/8+	1011	536	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23743	9-8-5	H	WILDES MINERAL INTERESTS LLC	TH EXPLORATION LLC	1/8+	1011	534	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23749	9-8-5	H	MARCELLUS TX MINERAL PRTNR LTD	TH EXPLORATION LLC	1/8+	1012	193	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28092	9-8-5	H	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	TH EXPLORATION LLC	1/8+	1073	370	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22760	9-8-4.1	I	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	968	294	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28092	9-8-4.1	I	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	TH EXPLORATION LLC	1/8+	1073	370	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22745	9-8-11	J	BONNIE J JENKINS	TH EXPLORATION LLC	1/8+	968	288	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23314	9-8-11	J	CYNTHIA WATSON	TH EXPLORATION LLC	1/8+	988	499	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23353	9-8-11	J	SHARON E MCDONALD AND HAROLD S MCDONALD	TH EXPLORATION LLC	1/8+	988	495	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25718	9-8-11	J	KATHLEEN JEANNE B JENKINS	TH EXPLORATION LLC	1/8+	1035	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*25719	9-8-11	J	NICHOLE M JENKINS	TH EXPLORATION LLC	1/8+	1035	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10*26025	9-8-11	J	DAVID D MURRAY	CHEVRON USA INC	1/8+	791 45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26026	9-8-11	J	JUDITH ELLEN DOTY	CHEVRON USA INC	1/8+	787 249	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26027	9-8-11	J	DANIEL W CHAPMAN	CHEVRON USA INC	1/8+	788 111	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26028	9-8-11	J	DAVID W CHAPMAN	CHEVRON USA INC	1/8+	788 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26029	9-8-11	J	GREGORY L CHAPMAN	CHEVRON USA INC	1/8+	788 96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26030	9-8-11	J	DONALD CARMICHAEL	CHEVRON USA INC	1/8+	787 471	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26031	9-8-11	J	SARAH LEONA MCGLONE	CHEVRON USA INC	1/8+	787 478	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26032	9-8-11	J	MARGARET ANN JONES	CHEVRON USA INC	1/8+	787 364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26033	9-8-11	J	LINDA S COLEMAN	CHEVRON USA INC	1/8+	791 143	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26034	9-8-11	J	LUANN N HIMMELFARB	CHEVRON USA INC	1/8+	791 205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26035	9-8-11	J	PATRICK P TRUEX	CHEVRON USA INC	1/8+	791 219	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26038	9-8-11	J	DOUGLAS A WAYSON	CHEVRON USA INC	1/8+	811 440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26039	9-8-11	J	DAWNETTA M WAYSON	CHEVRON USA INC	1/8+	807 420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26040	9-8-11	J	ROBERT BRANDT WAYSON	CHEVRON USA INC	1/8+	808 524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26042	9-8-11	J	SHARON ANN PETERSON	CHEVRON USA INC	1/8+	838 396	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26043	9-8-11	J	GREGORY A CHAPMAN	CHEVRON USA INC	1/8+	834 354	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26204	9-8-11	J	COLE DALE GRIMM	CHEVRON USA INC	1/8+	889 244	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26494	9-8-11	J	JOHN P JENKINS	TH EXPLORATION LLC	1/8+	1037 434	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27524	9-8-11	J	KEVIN A MYSLIWIEC AND SANDY L MYSLIWIEC	CHEVRON USA INC	1/8+	784 292	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27527	9-8-11	J	PETER J & JUDY B MYSLIWIEC	CHEVRON USA INC	1/8+	784 285	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*21246	9-8-10	K	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR	TH EXPLORATION LLC	1/8+	952 422	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21326	9-8-10	K	DENISE L FASSETT AND RONALD L FASSETT	TH EXPLORATION LLC	1/8+	952 424	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21331	9-8-10	K	DAVID E MYSLIWIEC	TH EXPLORATION LLC	1/8+	952 426	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22745	9-8-10	K	BONNIE J JENKINS	TH EXPLORATION LLC	1/8+	968 288	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22764	9-8-10	K	GARY D OLSON AND ILENE J OLSON	TH EXPLORATION LLC	1/8+	970 74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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10*22765	9-8-10	K	KRIS E OLSON AND BOBBI L OLSON	TH EXPLORATION LLC	1/8+	970 72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*22766	9-8-10	K	TOD E OLSON AND COLLEEN G OLSON	TH EXPLORATION LLC	1/8+	970 70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23314	9-8-10	K	CYNTHIA WATSON	TH EXPLORATION LLC	1/8+	988 499	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*23353	9-8-10	K	SHARON E MCDONALD AND HAROLD S MCDONALD	TH EXPLORATION LLC	1/8+	988 495	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24552	9-8-10	K	KELI S CALKINS	TH EXPLORATION LLC	1/8+	1025 415	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*25718	9-8-10	K	KATHLEEN JEANNE B JENKINS	TH EXPLORATION LLC	1/8+	1035 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*25719	9-8-10	K	NICHOLE M JENKINS	TH EXPLORATION LLC	1/8+	1035 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*26025	9-8-10	K	DAVID D MURRAY	CHEVRON USA INC	1/8+	791 45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26026	9-8-10	K	JUDITH ELLEN DOTY	CHEVRON USA INC	1/8+	787 249	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26027	9-8-10	K	DANIEL W CHAPMAN	CHEVRON USA INC	1/8+	788 111	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26028	9-8-10	K	DAVID W CHAPMAN	CHEVRON USA INC	1/8+	788 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26029	9-8-10	K	GREGORY L CHAPMAN	CHEVRON USA INC	1/8+	788 96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26030	9-8-10	K	DONALD CARMICHAEL	CHEVRON USA INC	1/8+	787 471	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26031	9-8-10	K	SARAH LEONA MCGLONE	CHEVRON USA INC	1/8+	787 478	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26032	9-8-10	K	MARGARET ANN JONES	CHEVRON USA INC	1/8+	787 364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26033	9-8-10	K	LINDA S COLEMAN	CHEVRON USA INC	1/8+	791 143	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26034	9-8-10	K	LUANN N HIMMELFARB	CHEVRON USA INC	1/8+	791 205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26035	9-8-10	K	PATRICK P TRUJEX	CHEVRON USA INC	1/8+	791 219	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26038	9-8-10	K	DOUGLAS A WAYSON	CHEVRON USA INC	1/8+	811 440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26039	9-8-10	K	DAWNETTA M WAYSON	CHEVRON USA INC	1/8+	807 420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26040	9-8-10	K	ROBERT BRANDT WAYSON	CHEVRON USA INC	1/8+	808 524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26042	9-8-10	K	SHARON ANN PETERSON	CHEVRON USA INC	1/8+	838 396	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26043	9-8-10	K	GREGORY A CHAPMAN	CHEVRON USA INC	1/8+	834 354	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26204	9-8-10	K	COLE DALE GRIMM	CHEVRON USA INC	1/8+	889 244	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26494	9-8-10	K	JOHN P JENKINS	TH EXPLORATION LLC	1/8+	1037 434	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27140	9-8-10	K	ROGER C PATTAN AND TARA I PATTAN	TH EXPLORATION LLC	1/8+	1052 498	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27466	9-8-10	K	TANICE J SCHNIER	CHEVRON USA INC	1/8+	898 273	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357

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10*27467	9-8-10	K	ROBIN K JASA	CHEVRON USA INC	1/8+	899 502	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27468	9-8-10	K	PETER J & JUDY B MYSLIWIEC	CHEVRON USA INC	1/8+	882 200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27469	9-8-10	K	KEVIN A MYSLIWIEC AND SANDY L MYSLIWIEC	CHEVRON USA INC	1/8+	882 197	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*27470	9-8-10	K	HARLAN OLSON AND LYNNETTE OLSON	CHEVRON USA INC	1/8+	899 244	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27471	9-8-10	K	KENNETH IREY	CHEVRON USA INC	1/8+	904 341	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27472	9-8-10	K	KAREN K KRUSE	CHEVRON USA INC	1/8+	899 258	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27473	9-8-10	K	JOYCE A NELSEN	CHEVRON USA INC	1/8+	902 538	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27474	9-8-10	K	DANNY OLSON	CHEVRON USA INC	1/8+	902 535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27475	9-8-10	K	ALAN S PALLAS	CHEVRON USA INC	1/8+	898 470	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27515	9-8-10	K	WILLIAM L MCKINLEY	CHEVRON USA INC	1/8+	899 517	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27755	9-8-10	K	THE UNKNOWN HEIRS OF WILLIAM CLIFFORD OLSON ET AL*	TH EXPLORATION LLC	1/8+	1060 468	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*28301	9-8-10	K	NADINE I STEVENSON	TH EXPLORATION LLC	1/8+	1067 374	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*31001	9-9-4	L	ERIC KATZMEYER	CHEVRON USA INC	1/8+	791 226	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 45/593
10*31003	9-9-4	L	DAVID & SHIRLEY KATZMEYER	CHEVRON USA INC	1/8+	792 226	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 45/593
10*31004	9-9-4	L	MARY LOU RUBINI FKA MILLER	CHEVRON USA INC	1/8+	793 287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 45/593
10*19987	9-9-16	M	LESLEY D BALLA	TH EXPLORATION LLC	1/8+	955 103	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19993	9-9-16	M	DIANA D COSLICK	TH EXPLORATION LLC	1/8+	955 105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*19994	9-9-16	M	ELAINE A FONTES	TH EXPLORATION LLC	1/8+	960 36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21117	9-9-16	M	JOELLYN JOHNSON	TH EXPLORATION LLC	1/8+	952 392	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*21322	9-9-16	M	PHILLIP H WAYT AND BILLIE A WAYT	TH EXPLORATION LLC	1/8+	953 293	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22199	9-9-16	M	DONALD BROOKS WESLEY	BLUE ROAN RESOURCES LLC	1/8+	926 424	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22201	9-9-16	M	FREDERICK MAXWELL YEATER	BLUE ROAN RESOURCES LLC	1/8+	926 422	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22202	9-9-16	M	MARK DAVID HUNT	BLUE ROAN RESOURCES LLC	1/8+	935 109	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22203	9-9-16	M	MELISSA ELAINE SCHROTH	BLUE ROAN RESOURCES LLC	1/8+	934 471	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22526	9-9-16	M	BARBARA FURFARI	TH EXPLORATION LLC	1/8+	964 528	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22528	9-9-16	M	RONALD DAKAN	TH EXPLORATION LLC	1/8+	964 530	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22553	9-9-16	M	DAVID H DAKAN	TH EXPLORATION LLC	1/8+	966 130	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*22783	9-9-16	M	SUZANNE SWIFT	TH EXPLORATION LLC	1/8+	972 85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*23315	9-9-16	M	TIM A WILLIS AND DIANE CLARE WILLIS	TH EXPLORATION LLC	1/8+	988 138	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10*24047	9-9-16	M	BESSIE CARMICHAEL ET AL SHANE M MALLET, SPECIAL COMMISSIONER	TH EXPLORATION LLC	1/8+	1021 117	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	Assignment	
10*24397	9-9-16	M	MARK D CHAMBERS AND SHERYL CHAMBERS	TH EXPLORATION LLC	1/8+	1023	163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24398	9-9-16	M	TODD SCHERICH AND WANDA D SCHERICH	TH EXPLORATION LLC	1/8+	1023	160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*24413	9-9-16	M	BRADLEY S SCHERICH AND LEIGH SCHERICH	TH EXPLORATION LLC	1/8+	1023	157	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*26001	9-2-10	N	FREDDIE C WHITE AND VIOLET L WHITE	TRIENERGY INC	1/8+	655	555	TriEnergy Inc to AB Resources LLC: 19/623	AB Resources LLC to Chief Exploration & Development LLC: 666/40	TriEnergy Inc to TriEnergy Holdings LLC: 21/148	Chief E&D LLC & Radler 2000 LP to Enerplus Resources USA Corp: 685/643 & 21/520	AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 24/319	Chief E&D LLC, Chief O/G LLC, Eadler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105	AB Resources LLC to Chevron USA Inc: 756/397	TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*28244	9-9-5	O	MICHAEL D DOBBS AND STEPHANIE J DOBBS	TH EXPLORATION LLC	1/8+	1068	569	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10*28340	9-9-5	O	PAMELA POSTLETHWAIT AND SCOTT POSTLETHWAIT	TH EXPLORATION LLC	1/8+	1071	427	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

*Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.

4705102293

DPS LAND SERVICES CORP
6000 TOWN CENTER BOULEVARD, SUITE 145
CANTONSBURG PA 15317-5841

BOOK 0-043 PAGE 0095

STATE OF WEST VIRGINIA §
 §
COUNTY OF MARSHALL §

ASSIGNMENT AND BILL OF SALE

This **ASSIGNMENT AND BILL OF SALE** (this "Assignment") dated as of February 7, 2019 (the "Signing Date"), but effective from and after 7:00 a.m., Eastern Standard Time on February 1, 2019 (the "Effective Date"), is made by **Chevron U.S.A. Inc.**, a Pennsylvania corporation, with an address at 700 Cherrington Parkway, Coraopolis, PA 15108 ("Chevron" or "Assignor") to **TH Exploration II, LLC** and **TH Exploration, LLC**, Texas limited liability companies, with an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (collectively "Assignee") and is accepted by Assignee upon the following terms and conditions.

RECITALS

- A. Assignor desires to sell, convey, transfer, assign and deliver to Assignee Assignor's Crawford 1 well and certain related assets, including certain leasehold interests, located in Marshall County, West Virginia.
- B. Through an Acreage Trade Agreement to be executed contemporaneously with this Assignment, Assignor desires to transfer, convey and assign to Assignee certain of Assignor's oil and gas leasehold interests located in Marshall County, West Virginia in exchange for the transfer, conveyance and assignment to Assignor by Assignee certain of Assignee's oil and gas leasehold interests located in Marshall County, West Virginia.
- C. In consideration of the mutual promises set out in this Assignment, including execution of the Acreage Trade Agreement, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree to be bound by the terms of this Assignment.

1. DEFINITIONS

1.1 **Definitions.** As used in this Assignment, these words and expressions have the following meanings:

"Acreage Trade Agreement" means that certain Acreage Trade Agreement by and between Chevron U.S.A. Inc. and TH Exploration, LLC with an Effective Date of February 1, 2019 to be contemporaneously executed with this Assignment.

"Act" has the meaning given to such term in Section 9.1(C).

"Affiliate" means any legal entity which controls, is controlled by, or is under common control with, another legal entity. An entity is deemed to "control" another if it owns directly or indirectly at least fifty percent of either of the following: (A) the shares entitled to vote at a general election of directors of such

STATE OF WEST VIRGINIA §
§
COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

19 THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this day of August 2019 (the "Effective Date"), by and between CHEVRON U.S.A. INC., a Pennsylvania corporation, with an address at 700 Cherrington Parkway, Coraopolis, PA 15108 (hereinafter "Assignor") and TH EXPLORATION, LLC, a Texas limited liability company, with an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (hereinafter "Assignee").

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 exclusions; and

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

1. Assignment. 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. Any portion of the Leases set forth in the column entitled "Less and Except" on Exhibit A.

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

2. No Warranty. The Assignment is made on an "as is, where is" basis without warranty of any kind. Assignor makes no, and expressly disclaims any, representation or warranty to Assignee regarding the Leases, whether express, statutory or implied, in fact, at law, common law, in equity or otherwise.

3. Successors and Assigns. The terms of this Assignment shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors and assigns, and such terms shall be covenants running with the land, and with each subsequent transfer or assignment thereof.

4. Further Assurances. Assignor and Assignee hereby agree to take all actions and execute, acknowledge, and deliver all such instruments as are necessary or advisable to effectuate the purposes of this Assignment, except Assignor has no obligation to defend title to the Leases.

ASSIGNMENT OF OIL AND GAS LEASES

This ASSIGNMENT OF OIL AND GAS LEASES (the "Assignment") is made and entered into this 8th day of March, 2018 (the "Effective Date"), from **Blue Roan Resources, LLC**, a West Virginia limited liability company, having an address at 3437 University Avenue, Morgantown, WV, 26505 (hereinafter "Assignor"), and **TH Exploration, LLC**, a Texas limited liability company, having an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (hereinafter "Assignee").

WITNESSETH:

WHEREAS, Assignor is the owner of the right, title, and interest in those certain Oil and Gas Leases situated in Marshall County, West Virginia, which are described in Exhibit "A" attached hereto and made a part hereof (hereinafter the "Leases"); and

WHEREAS, subject to the exceptions and reservations herein contained, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases.

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00), cash in hand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. Assignment. 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, subject to the terms, reservations, waivers and provisions as hereinafter set forth, an undivided interest of all of Assignor's right, title and interest in and to the Leases and all oil, natural gas, natural gas liquids, condensate, casinghead gas and other liquefied or gaseous hydrocarbons or products ("Hydrocarbons") thereby held, in any and all depths and formations ("Assigned Formations"), together with any and all other rights that are reasonably necessary or convenient to explore for and produce Hydrocarbons from the Assigned Formations, including, but not limited to, the right of surface access, use and occupancy, the right of ingress and egress, the right to conduct geophysical and other exploratory activities, the right to lay pipeline, the right to drill through, but not perforate or stimulate, all other depths and formations necessary for the purpose of reaching the Assigned Formations and to conduct operations therein.

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

2. Representations and Warranties. Assignor represents and warrants that such Assignor has not conveyed or otherwise encumbered its interest in the Leases since the time that Assignor obtained its interests in the Leases.

Assignor represents and warrants that, as to its interests in the Leases, Assignor has paid all royalties, overriding royalties, and other payments required by the Leases which were due for the period in which Assignor held its interests in the Leases, including, but not limited to, the interests assigned hereunder, and that Assignor has fully performed all conditions necessary to maintain the Leases in full force and effect during such period.

3. Successors and Assigns. The terms of this Assignment shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors and assigns, and such terms shall be covenants running with the land, and with each subsequent transfer or assignment thereof.

4. Further Assurances. Assignor and Assignee hereby agree to take all actions and execute, acknowledge, and deliver all such instruments as are necessary or advisable to effectuate the purposes of this Assignment.



TUG HILL

UTICA MODIFICATION – PLEASE DELIVER TO SUSAN ROSE

March 18, 2020

WV DEP OFFICE OF OIL & GAS
ATTENTION: SUSAN ROSE
601 57TH STREET SE
CHARLESTON WV 25304-2345

VIA FEDEX

RE: Hudson S-13HU (H6A Drilling Modification)
Franklin District, Marshall County, WV

Supplemental

Dear Susan:

Tug Hill Operating, LLC would like to submit the Hudson S-13HU modification to lengthen the well. The proposed well is located within Marshall County, WV. Please find the following enclosed:

- Updated WW-6B with inspector signature
- Updated well plat
- Updated Water Management Plan
- Updated Site Safety Plan
- Updated WW-6A1
- Updated Area of Review
- Updated 1500' Offset Operator list and map

If you have any questions or need any additional information, please feel free to call me at (304) 376-0111. Thank you for taking your time to review this application.

Sincerely,

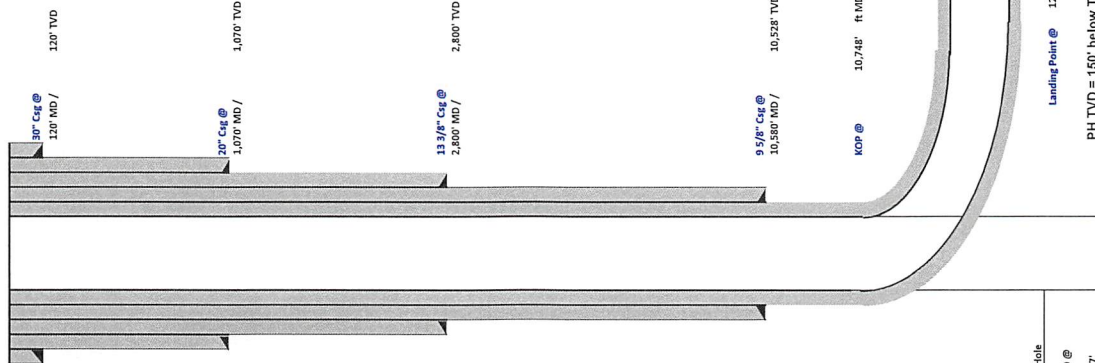
AMY L. MILLER
PERMITTING SPECIALIST-APPALACHIA REGION
TUG HILL OPERATING, LLC

Enclosures



WELL NAME: Hudson S-13HU
STATE: WV
DISTRICT: Meade
TD: 22,351'
TH Latitude: 39.826667
TH Longitude: -80.672718
BH Latitude: 39.805044
BH Longitude: -80.653789

COUNTY: Marshall
GL Elev: 1,344'



Formation	Depth TVD
Deepest Fresh Water	978'
Sewickley Coal	886'
Pittsburgh Coal	972'
Big Lime	2,123'
Berea	2,741'
Tully	6,687'
Marcellus	6,800'
Onondaga	6,852'
Salina	7,575'
Lockport	8,584'
Utica	11,406'
Poist Pleasant	11,674'
Landing Depth	11,724'
Trenton	11,807'
Pilot Hole TD	11,957'

Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	36	30	120'	120'	BW	BW	Surface
Surface	26	20	1,070'	1,070'	106.5	J55	Surface
Intermediate 1	17 1/2	13 3/8	2,800'	2,800'	54.5	J55	Surface
Intermediate 2	12 1/4	9 5/8	10,580'	10,528'	47	HPP110	Surface
Production	8 1/2	5 1/2	22,351'	11,901'	23	HCP110	Surface

CEMENT SUMMARY		DRILLING DETAILS	
Sacks	Class	Density	Fluid Type
338	A	15.6	Air
1,854	A	15.6	Air
2,140	A	15	Air
2,892	A	14.5	Air
4,884	A	15	Air / SOBM

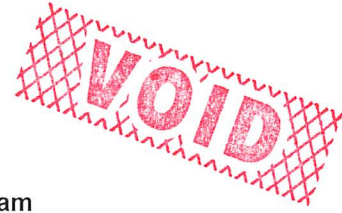
Centralizer Notes: None
 3 Centralizers at equal distance
 1 Centralizer every other ft
 1 Centralizer every other ft
 1 every other joint in lateral; 1 per joint in curve; 1 every other ft to sfc

VOID

Handwritten signature and date: 3/11/2020

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MAR 19 2020
 WV Department of Environmental Protection

Lateral TD @ 22,351' ft MD
 11,901' ft TVD



Tug Hill Operating, LLC Casing and Cement Program

Hudson S-13HU

Casing

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	20"	J55	26"	1,070'	CTS
Intermediate 1	13 3/8"	J55	17 1/2"	2,800'	CTS
Intermediate 2	9 5/8"	HPP110	12 1/4"	10,580'	CTS
Production	5 1/2"	HCP110	8 1/2"	22,351'	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% bwoc 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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Environmental Protection

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	1070'	1070'	1,719FT^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2800'	2800'	1,974FT^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,580'	10,580'	3,452FT^3(CTS)
Production	5 1/2"	NEW	P110	23#	22,351'	22,351'	5,300FT^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,248'	
Liners							

Joe
3/11/2020

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (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	16,510	10,864	SEE #24	1.18
Tubing	2 7/8"			11,385	11,624		
Liners							

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Office of Oil and Gas

MAR 19 2020

WV Department of
Environmental Protection

PACKERS

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

**HUDSON S LEASE
UTICA UNIT - 327.49 AC±
WELL 13HU
TUG HILL OPERATING**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	CONSOLIDATION COAL CO.	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	CONSOLIDATION COAL CO.	1.00
9-3-19	CNX LAND CO. LLC	45 SQ. RODS & 3280 SQ. FT
9-5-13	SHELLY ANN JORDAN	5.51
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-8-1	CNX LAND CO. LLC	PT. OF 1 AC.
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-4.1	CNX LAND RESOURCES, INC.	0.333
9-8-5.1	CNX LAND LLC	1.040

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

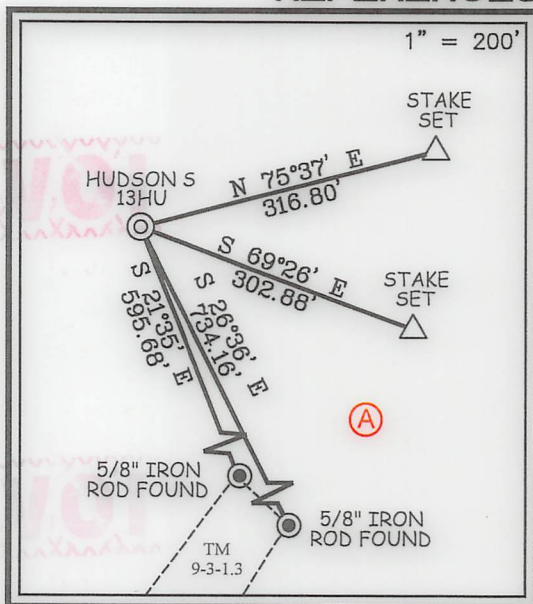
NAD'83 S.P.C.(FT)	N. 486,092.49	E. 1,639,154.94
NAD'83 GEO.	LAT-(N) 39.828667	LONG-(W) 80.672718
NAD'83 UTM (M)	N. 4,408,792.45	E. 528,006.42
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,294.8	E. 1,639,434.0
NAD'83 GEO.	LAT-(N) 39.829232	LONG-(W) 80.671734
NAD'83 UTM (M)	N. 4,408,855.5	E. 528,090.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,419.6	E. 1,644,360.1
NAD'83 GEO.	LAT-(N) 39.805044	LONG-(W) 80.653789
NAD'83 UTM (M)	N. 4,406,176.7	E. 529,636.4

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HUDSON S-13HU (47-051-02293) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-11HU (47-051-02296), HUDSON S-12HU (47-051-02292), PROPOSED HUDSON S-14HU, PROPOSED HUDSON S-15HU, PROPOSED HUDSON S-18HU.
- MINIMUM OFFSET SPACING REQUIREMENTS EXEMPTED BY WAIVER WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS AND OFFSET LEASEHOLDER AGREEMENTS AS PROVIDED BY TUG HILL OPERATING.

VOID

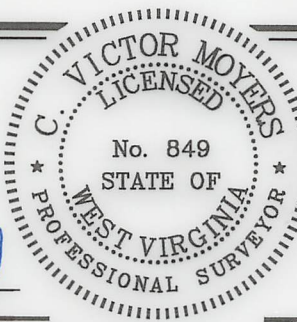
REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsv.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 23, 20 19
REVISED 10/22/19, 03/18/20
OPERATORS WELL NO. HUDSON S-13HU
API WELL NO. 47 - 051 - 02293
STATE COUNTY PERMIT MDD 1

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P13HUR2.dwg HUDSON S-13HU REV6
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
LOCATION: GROUND = 1,370.20' ELEVATION PROPOSED = 1,344.81' WATERSHED GRAVE CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'
SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±
PROPOSED WORK: LEASE NO. SEE WW-6A1
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,957' / TMD: 22,351'

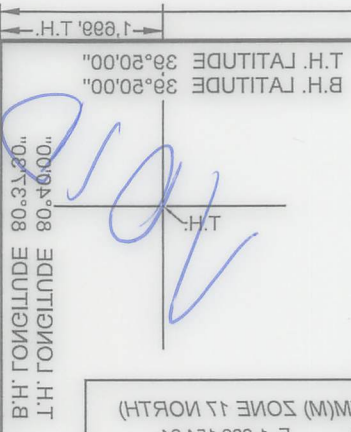
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

TUG HILL OPERATING WELL 13HU UTCA UNIT - 327.49 AC ± HUDSON 2 LEASE

MAP PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-1	CONSOLIDATION COAL CO.	1.00
9-2-2	CONSOLIDATION COAL CO.	1.00
9-2-12	CONSOLIDATION COAL CO.	1.00
9-2-19	CNX LAND CO. LLC	42.50 ACROSS
9-2-13	SHELLY ANN JORDAN	3280 SQ FT
9-7-9	CNX LAND CO. LLC	3.31
9-7-10	DONALD M & THERESA J. HARRIS	2.00
9-8-1	CNX LAND CO. LLC	3.00
9-8-2	CNX LAND CO. LLC	6000 SQ FT
9-8-4-1	CNX LAND RESOURCES, INC.	0.333
9-8-2-1	CNX LAND LLC	1.040

BOTTOM HOLE	
NAD'83 UTM (M)	N. 477.419 E. 1.644.390.1
NAD'83 GEO.	LAT-(N) 38.825044
NAD'83 UTM (M)	N. 477.419 E. 1.644.390.1
LANDING POINT	
NAD'83 UTM (M)	N. 448.294.8 E. 1.638.434.0
NAD'83 GEO.	LAT-(N) 38.825325
NAD'83 UTM (M)	N. 448.294.8 E. 1.638.434.0
(S.P.C. NORTH ZONE) (UTM) (ZONE 17 NORTH)	
NAD'83 UTM (M)	N. 448.294.8 E. 1.638.434.0
NAD'83 GEO.	LAT-(N) 38.825325
NAD'83 UTM (M)	N. 448.294.8 E. 1.638.434.0

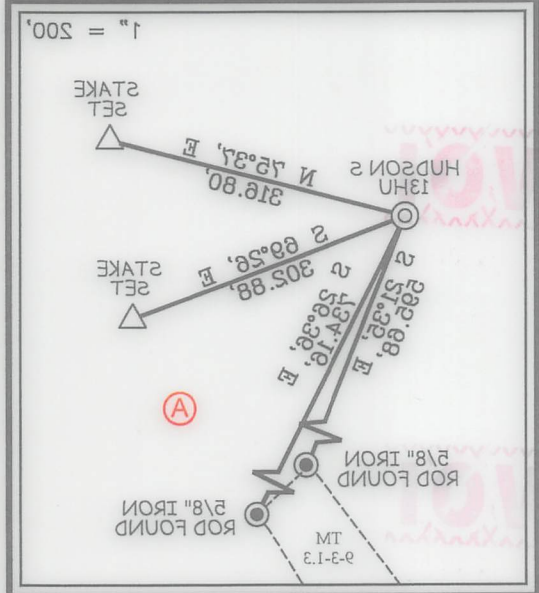


VOID

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOP MARK SCALE ARE 1" = 200'.
- PROPOSED LATERAL OR TOP HOLE OF HUDSON 2-13HU (47-051-02292) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON 2-11HU (47-051-02298), HUDSON 2-12HU (47-051-02292), PROPOSED HUDSON 2-14HU, PROPOSED HUDSON 2-15HU, PROPOSED HUDSON 2-16HU.
- MINIMUM OFFSET SPACING REQUIREMENTS EXEMPTED BY WAIVER WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. OFFICE OF OIL AND GAS AND OFFSET LEASEHOLDER AGREEMENTS AS PROVIDED BY TUG HILL OPERATING.

REFERENCES




I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

C. Victor Moyers

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FILE NO. 801P13HUR2.gwg
HUDSON 2-13HU REVE
SCALE 1" = 200'

WELL NO. 47 - 051 - 02293
COUNTY PERMIT

OPERATORS WELL NO. HUDSON 2-13HU
DATE AUGUST 23, 2019
REVISED 10/22/19 03/18/20

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 800
FORT WORTH, TX 76102

DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

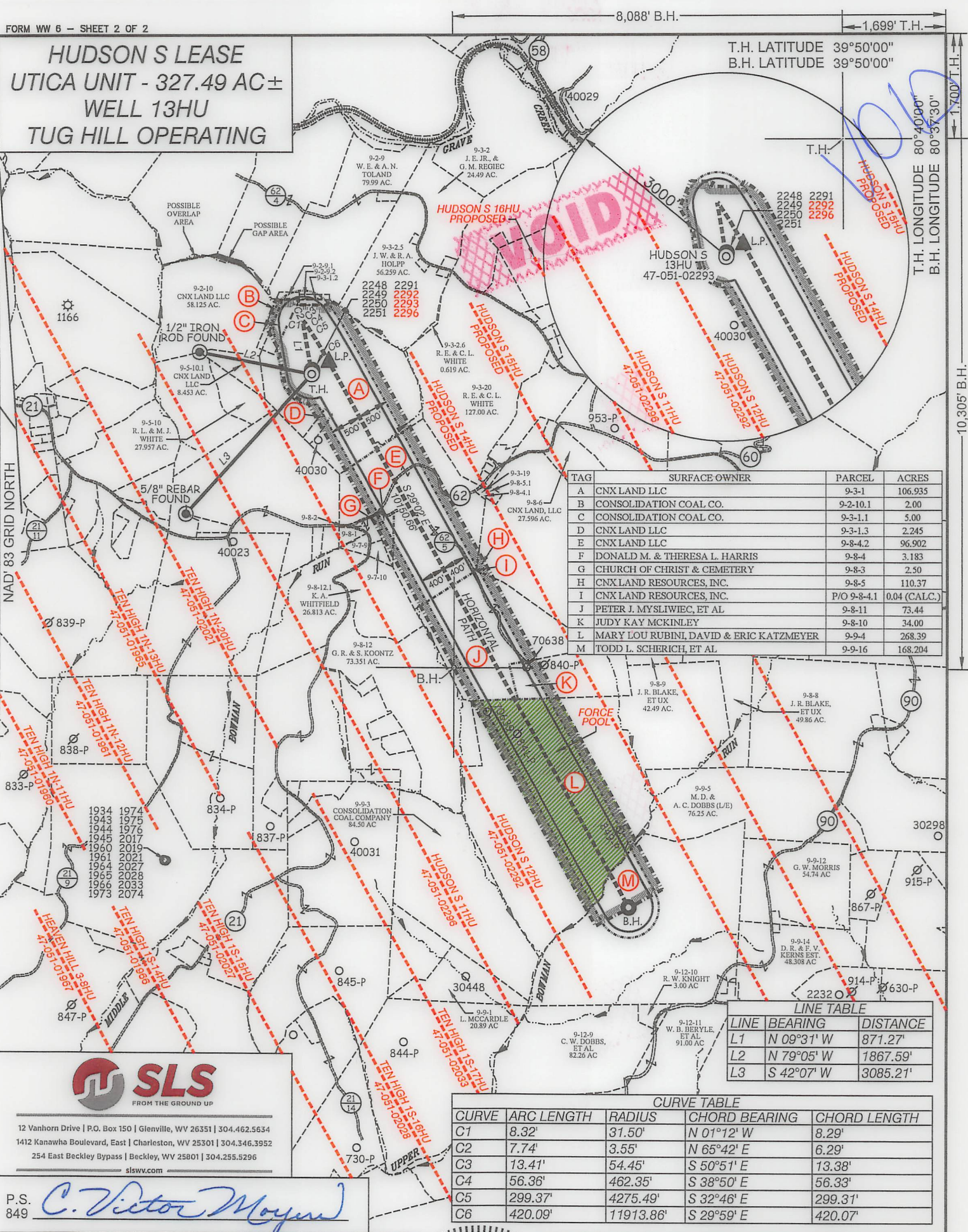
PROPOSED WORK:
 DRILL
 CONVERT
 DRILL DEEPER
 REDRILL
 FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION
 PLUG AND ABANDON
 CLEAN OUT AND REPLUG
 OTHER

PHYSICAL CHANGE IN WELL (SPECIFY)
 TARGET FORMATION
 POINT PLEASANT
 ESTIMATED DEPTH TVD: 11,952' TMD: 22,351'

COUNTY NAME
 LEASE NO. SEE WW-6A1
 ACREAGE 108.935±
 ACREAGE 108.935±
 DISTRICT MEADE
 COUNTY MARSHALL
 WATERSHED GRAVE CREEK (HUC 10)
 ELEVATION PROPOSED = 1,344.81'
 GROUND = 1,370.20'

CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
 HORIZONTAL & VERTICAL SCALE 1" = 200'
 OF ACCURACY 1/2500
 FILE NO. 801P13HUR2.gwg

**HUDSON S LEASE
UTICA UNIT - 327.49 AC±
WELL 13HU
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-2-10.1	2.00
C	CONSOLIDATION COAL CO.	9-3-1.1	5.00
D	CNX LAND LLC	9-3-1.3	2.245
E	CNX LAND LLC	9-8-4.2	96.902
F	DONALD M. & THERESA L. HARRIS	9-8-4	3.183
G	CHURCH OF CHRIST & CEMETERY	9-8-3	2.50
H	CNX LAND RESOURCES, INC.	9-8-5	110.37
I	CNX LAND RESOURCES, INC.	P/O 9-8-4.1	0.04 (CALC.)
J	PETER J. MYSLIWIEC, ET AL	9-8-11	73.44
K	JUDY KAY MCKINLEY	9-8-10	34.00
L	MARY LOU RUBINI, DAVID & ERIC KATZMEYER	9-9-4	268.39
M	TODD L. SCHERICH, ET AL	9-9-16	168.204

LINE	BEARING	DISTANCE
L1	N 09°31' W	871.27'
L2	N 79°05' W	1867.59'
L3	S 42°07' W	3085.21'

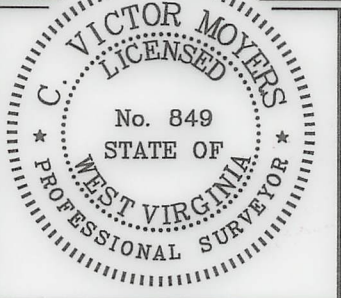
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	8.32'	31.50'	N 01°12' W	8.29'
C2	7.74'	3.55'	N 65°42' E	6.29'
C3	13.41'	54.45'	S 50°51' E	13.38'
C4	56.36'	462.35'	S 38°50' E	56.33'
C5	299.37'	4275.49'	S 32°46' E	299.31'
C6	420.09'	11913.86'	S 29°59' E	420.07'

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
sllswv.com

P.S. 849 *C. Victor Moyers*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 486,092.49	E. 1,639,154.94
NAD'83 GEO.	LAT-(N) 39.828667	LONG-(W) 80.672718
NAD'83 UTM (M)	N. 4,408,792.45	E. 528,006.42
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,294.8	E. 1,639,434.0
NAD'83 GEO.	LAT-(N) 39.829232	LONG-(W) 80.671734
NAD'83 UTM (M)	N. 4,408,855.5	E. 528,090.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,419.6	E. 1,644,360.1
NAD'83 GEO.	LAT-(N) 39.805044	LONG-(W) 80.653789
NAD'83 UTM (M)	N. 4,406,176.7	E. 529,636.4



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

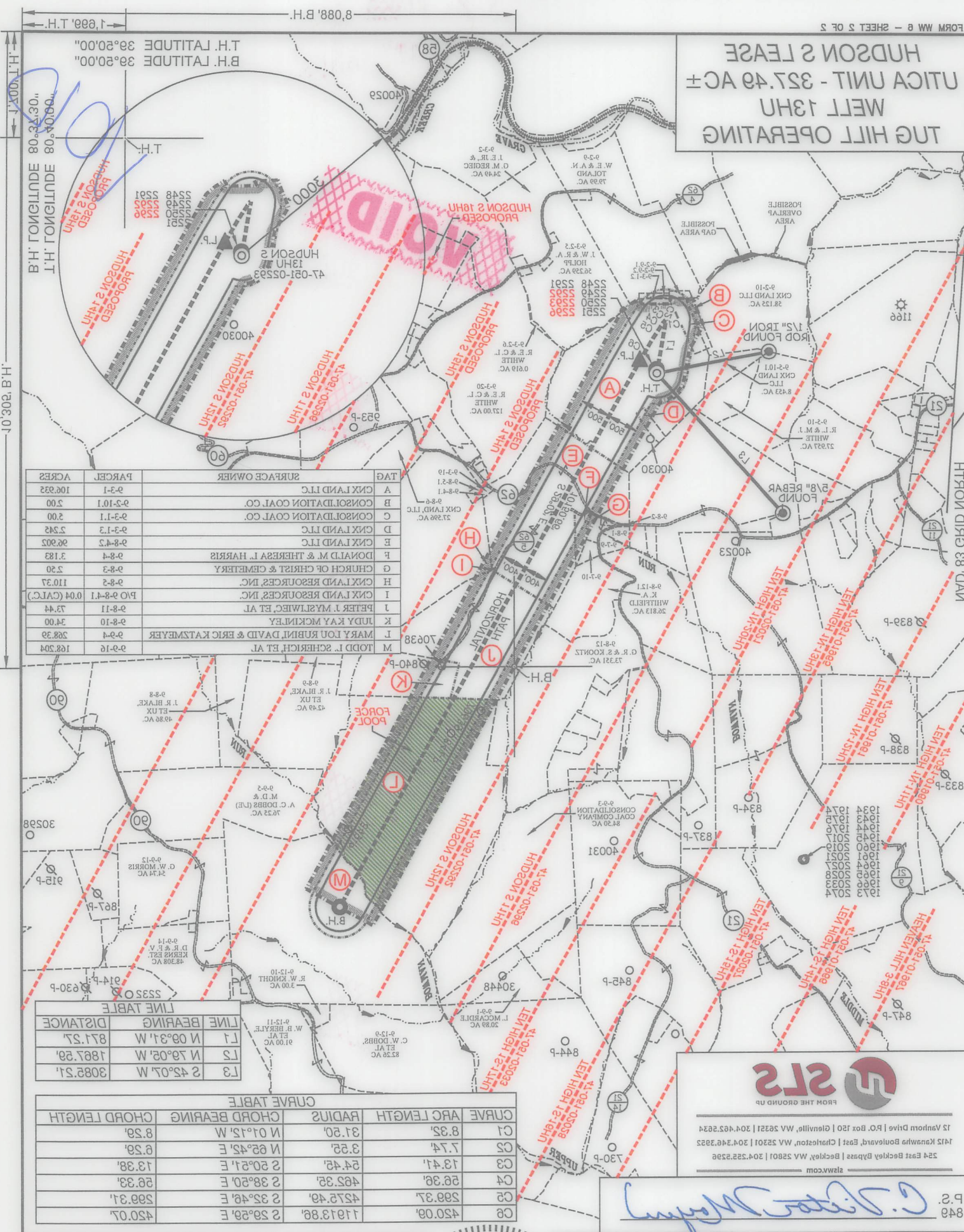
UNIT BOUNDARY	
LEASED TRACTS INSIDE	
UNIT BOUNDARY	
SURFACE LINE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
FORCE POOL TRACT	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 8911P13HUR2.dwg
HUDSON S-13HU REV6
DATE AUGUST 23, 2019
REVISED 10/22/19, 03/18/20
OPERATORS WELL NO. HUDSON S-13HU MOD1
API WELL NO. 47-051-02293
NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107	DESIGNATED AGENT DIANNA STAMPER ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313
---	--

**TUG HILL OPERATING
WELL 13HU
HUDSON 2 LEASE
UTICA UNIT - 327.49 AC ±**



TAG	SURFACE OWNER	ACRES
A	CNX LAND LLC	106.23
B	CONSOLIDATION COAL CO.	2.00
C	CONSOLIDATION COAL CO.	2.00
D	CNX LAND LLC	2.24
E	CNX LAND LLC	26.00
F	DONALD M. & THERESA L. HARRIS	3.18
G	CHURCH OF CHRIST & CEMETERY	2.30
H	CXK LAND RESOURCES INC.	110.21
I	CXK LAND RESOURCES INC.	0.04 (CALC.)
J	PETER J. MYSLIWEK, ET AL.	13.44
K	JUDY KAY MCKINLEY	34.00
L	MARY LOU RUBIN, DAVID & ERIC KATZMEYER	208.29
M	TODD J. SCHERICH, ET AL.	168.20

LINE BEARING	DISTANCE
L1	N 09°31' W 871.27
L2	N 79°08' W 1867.20
L3	S 45°07' W 3088.21

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	8.35'	31.50'	N 07°12' W	8.20'
C2	7.74'	3.25'	N 65°42' E	6.20'
C3	13.41'	24.45'	S 50°27' E	13.38'
C4	68.38'	238.50'	S 38°50' E	68.38'
C5	200.37'	427.40'	S 32°46' E	200.37'
C6	450.00'	1103.88'	S 29°50' E	450.00'

LEGEND

- UNIT BOUNDARY
- LEASED TRACT INSIDE UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- THE LINE
- ROAD
- CREEK
- FORCE POOL TRACT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

COUNTY NAME

PERMIT



OFFICE OF OIL AND GAS
DIVISION OF
STATE OF WEST VIRGINIA
ENVIRONMENTAL PROTECTION

NO. STATE COUNTY PERMIT
WELL NO. 47 - 051 - 02293
OPERATORS WELL NO. HUDSON 2-13HU
REVISED 10/22/19, 03/18/20
DATE AUGUST 23, 2019
FILE NO. 841P13HURS.qwg

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76102

DESIGNATED AGENT
CT CORPORATION SYSTEM
DIANNA STAMPER
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

254 East Beckley Bayberry | Beckley, WV 25801 | 204.258.2256
1215 Kanawha Boulevard, East | Charleston, WV 25301 | 204.746.2322
12 Vanhook Drive | P.O. Box 120 | Glenville, WV 25821 | 204.463.8834

P.2. 848
C. Victor Moyers

**HUDSON S LEASE
UTICA UNIT -327.49 AC±
WELL 13HU
TUG HILL OPERATING**



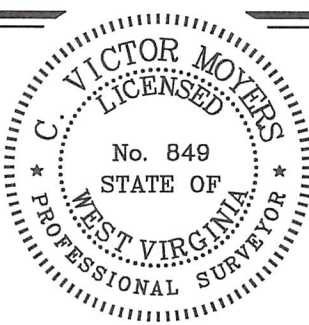
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.295.5295
slsvv.com

101

NO.	Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE, ET AL	728	527
2	10*26711	9-2-10.1	B	CNX GAS COMPANY LLC	1039	1
3	10*26044	9-3-1.1	C	JOYCE A WALLACE, ET AL	863	296
4	10*26018	9-3-1.3	D	NANCY L WEST, ET AL	737	248
5	10*47051.109.0	9-8-4.2	E	DONALD M AND THERESA L HARRIS, ET AL	859	440
6	10*47051.109.0	9-8-4	F	DONALD M AND THERESA L HARRIS, ET AL	859	440
7	10*26113	9-8-3	G	ELDWIN OTIS RINE AND MARY L RINE, ET AL	880	434
8	10*23739	9-8-5	H	APPALACHIAN BASIN MINERALS LP, ET AL	1011	538
9	10*22760	9-8-4.1	I	DONALD M AND THERESA L HARRIS, ET AL	968	294
10	10*22745	9-8-11	J	BONNIE J JENKINS, ET AL	968	288
11	10*21246	9-8-10	K	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR, ET AL	952	422
12	N/A	9-9-4	L	MARY LOU RUBINI FKA MARY LOU MILLER, ET AL	793	287
13	10*19987	9-9-16	M	LESLEY D BALLA, ET AL	955	103

VOID

FILE NO. 8911P13HUR2.dwg
HUDSON S-11HU REV6
DATE AUGUST 23, 20 19
REVISED 10/22/19, 03/18/20
OPERATORS WELL NO. HUDSON S-11HU
API WELL NO. 47 — 051 — 02293
STATE COUNTY PERMIT **MOD1**



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
P.S. 849 *C. Victor Moyers*

COUNTY NAME
PERMIT

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

VOID
VOID

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
----------------------	-----------------------	-----------------------	---------	-----------

*See attached pages

***Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.**

**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 *Amy Miller*
 Its: Permitting Specialist - Appalachia Region

WW-6A1 Supplement

Operator's Well No. Hudson S - 13HU

RECEIVED
Office of Oil and Gas
MAR 19 2020
WV Department of
Environmental Protection

Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment
10*26041	9-3-1	A	FREDDIE C WHITE AND VIOLET L WHITE	CHESAPEAKE APPALACHIA LLC	1/8+	728	527	Chesapeake Appalachia LLC to Statoil USA Onshore Properties Inc: 27/386	Statoil USA Onshore Properties Inc to Chevron USA Inc: 30/427	Chesapeake Appalachia LLC to Chevron USA Inc: 30/461	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26044	9-3-1	A	JOYCE A WALLACE	CHEVRON USA INC	1/8+	863	296	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26047	9-3-1	A	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE	CHEVRON USA INC	1/8+	863	138	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26048	9-3-1	A	LOIS J ELIAS AND LOUIS J ELIAS	CHEVRON USA INC	1/8+	861	599	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26049	9-3-1	A	MARY H HUBBS	CHEVRON USA INC	1/8+	863	560	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26050	9-3-1	A	BERNARD O CROW AND KAREN S CROW	CHEVRON USA INC	1/8+	863	627	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26051	9-3-1	A	ROBERT W KIDNER	CHEVRON USA INC	1/8+	863	644	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26052	9-3-1	A	BETTY J BLAKE	CHEVRON USA INC	1/8+	863	545	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26053	9-3-1	A	ANTHONY T MOORE	CHEVRON USA INC	1/8+	854	343	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26054	9-3-1	A	HIRAM VERNON MOORE	CHEVRON USA INC	1/8+	854	353	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26055	9-3-1	A	LARRY W MOORE SR	CHEVRON USA INC	1/8+	854	348	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26056	9-3-1	A	RONALD W MOORE	CHEVRON USA INC	1/8+	854	338	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26057	9-3-1	A	JOHN PURDY AND BRENDA S PURDY	CHEVRON USA INC	1/8+	854	420	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26058	9-3-1	A	CAROLE J WOOD	CHEVRON USA INC	1/8+	854	415	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

WW-6A1 Supplement

RECEIVED
Office of Oil and Gas
MAR 19 2020
WV Department of
Environmental Protection

Operator's Well No. Hudson S - 13HU

Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment
10*26059	9-3-1	A	TERRY L BLAKE	CHEVRON USA INC	1/8+	854	215	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26060	9-3-1	A	ROBERT C BLAKE AND LYN BLAKE	CHEVRON USA INC	1/8+	854	333	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26061	9-3-1	A	RODNEY W AND LINDA L HUBBS	CHEVRON USA INC	1/8+	854	435	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26062	9-3-1	A	SHANNON ROGER AND LORRAINE HUBBS	CHEVRON USA INC	1/8+	854	233	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26063	9-3-1	A	PATTY L RINE AND FLOYD D RINE	CHEVRON USA INC	1/8+	854	238	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26064	9-3-1	A	CATHARINE LEE BLAKE	CHEVRON USA INC	1/8+	863	550	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26066	9-3-1	A	DANNY E AND MARVA L BEYSER	CHEVRON USA INC	1/8+	858	36	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26067	9-3-1	A	DONALD DEAN BEYSER	CHEVRON USA INC	1/8+	858	41	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26068	9-3-1	A	GARY F BLAKE AND DORIS E BLAKE	CHEVRON USA INC	1/8+	858	31	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26069	9-3-1	A	MARILYN SUE REILLEY	CHEVRON USA INC	1/8+	857	597	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26070	9-3-1	A	MARY W HOLMES	CHEVRON USA INC	1/8+	857	602	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26071	9-3-1	A	CHARLENE LORRAINE BAKER	CHEVRON USA INC	1/8+	857	607	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26072	9-3-1	A	JAMES L BLAKE	CHEVRON USA INC	1/8+	857	616	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26073	9-3-1	A	DARLENE L BEYSER	CHEVRON USA INC	1/8+	860	176	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26074	9-3-1	A	RANDLYN MOORE AKA RANDY MOORE	CHEVRON USA INC	1/8+	860	166	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26075	9-3-1	A	BETTY JOANN CECIL	CHEVRON USA INC	1/8+	860	119	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26076	9-3-1	A	DORIS IMOGENE GARRISON	CHEVRON USA INC	1/8+	860	114	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26077	9-3-1	A	DOROTHY J AND ROBERT M BLAKE	CHEVRON USA INC	1/8+	860	104	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26078	9-3-1	A	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	860	228	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26079	9-3-1	A	MARY O'DESSA HARRIS LOUDEN	CHEVRON USA INC	1/8+	860	109	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26080	9-3-1	A	SHARON DIANE HOLMES JAHN AND WILLILAM HENRY JAHN III - W/H	CHEVRON USA INC	1/8+	860	217	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26081	9-3-1	A	CYNTHIA JEAN AND EDDIE W WILSON	CHEVRON USA INC	1/8+	861	545	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26082	9-3-1	A	BRIAN C AND SARA M LUTZ	CHEVRON USA INC	1/8+	861	550	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26083	9-3-1	A	WILLIAM S BLAKE JR	CHEVRON USA INC	1/8+	861	535	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26084	9-3-1	A	CYNTHIA A AND JAMES O DAVIDSON	CHEVRON USA INC	1/8+	889	46	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26085	9-3-1	A	CLYDE R AND JANA HIGGINS	CHEVRON USA INC	1/8+	861	508	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26086	9-3-1	A	DELMAS W AND ROSE HIGGINS	CHEVRON USA INC	1/8+	861	503	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26087	9-3-1	A	JERRY L AND DENISE HIGGINS	CHEVRON USA INC	1/8+	861	526	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26088	9-3-1	A	SHIRL W AND DORIS HIGGINS	CHEVRON USA INC	1/8+	861	540	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26089	9-3-1	A	ALVA L AND SHIRLEY HIGGINS	CHEVRON USA INC	1/8+	861	521	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26090	9-3-1	A	H DEAN AND KAREN HIGGINS	CHEVRON USA INC	1/8+	861	516	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26091	9-3-1	A	JOELENE M MANN	CHEVRON USA INC	1/8+	864	55	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26092	9-3-1	A	SHAWN J AND SARAH E CREWS	CHEVRON USA INC	1/8+	864	50	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26093	9-3-1	A	JOYCE HOLMES CONE AND WILLIAM CONE - W/H	CHEVRON USA INC	1/8+	861	493	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26094	9-3-1	A	MARK L CURRY	CHEVRON USA INC	1/8+	865	102	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26095	9-3-1	A	CHRISTINA C MUNSON	CHEVRON USA INC	1/8+	865	107	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26097	9-3-1	A	DAVID L BEYSER	CHEVRON USA INC	1/8+	865	173	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26098	9-3-1	A	KIMBERLY J HOLDER	CHEVRON USA INC	1/8+	867	87	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26099	9-3-1	A	CAROL TROWBRIDGE ET VIR	CHEVRON USA INC	1/8+	866	138	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26100	9-3-1	A	JOSEPH L AND ROSE MARIE MAUPIN	CHEVRON USA INC	1/8+	866	67	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26120	9-3-1	A	JAMES D AND LINDA D YOCUM	CHEVRON USA INC	1/8+	884	635	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26121	9-3-1	A	BETTY BRYNER	CHEVRON USA INC	1/8+	871	64	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26236	9-3-1	A	GERALD W QUIGLEY AND VICKI L QUIGLEY	CHEVRON USA INC	1/8+	884	50	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26237	9-3-1	A	FREDA L CAMPBELL	CHEVRON USA INC	1/8+	889	40	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26238	9-3-1	A	MARSHA L MERCER	CHEVRON USA INC	1/8+	883	639	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26287	9-3-1	A	IVAN R AND MARY A BLAKE	CHEVRON USA INC	1/8+	888	542	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26288	9-3-1	A	REBECCA J BLAKE	CHEVRON USA INC	1/8+	888	571	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26289	9-3-1	A	DUANETTA B BLAKE FROMHART	CHEVRON USA INC	1/8+	888	574	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26291	9-3-1	A	BARBARA A BLAKE MASON	CHEVRON USA INC	1/8+	901	125	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26292	9-3-1	A	JUDITH L BLAKE	CHEVRON USA INC	1/8+	882	329	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26293	9-3-1	A	JAY C CURRY	CHEVRON USA INC	1/8+	882	433	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26294	9-3-1	A	JOAN A GIEGER	CHEVRON USA INC	1/8+	880	509	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26295	9-3-1	A	ARTHUR LEE WARYCK	CHEVRON USA INC	1/8+	880	512	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26296	9-3-1	A	CARL G CALDWELL	CHEVRON USA INC	1/8+	883	530	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26297	9-3-1	A	DIANA L MCKINNEY	CHEVRON USA INC	1/8+	885	560	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26298	9-3-1	A	JANE HENDRICKSON	CHEVRON USA INC	1/8+	886	429	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26299	9-3-1	A	BETTY WILKINSON DANIEL A MCVANE AIF	CHEVRON USA INC	1/8+	886	432	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26300	9-3-1	A	JILL LORI HENNEN BARNETT	CHEVRON USA INC	1/8+	886	439	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27180	9-3-1	A	TAMALA SCOLLIK	TH EXPLORATION LLC	1/8+	1053	1	N/A	N/A	N/A	N/A
10*26065	9-3-1	A	DENNIS F MOORE JOLENE A MOORE	CHEVRON USA INC	1/8+	857	646	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27181	9-3-1	A	CRYSTAL THOMAS	TH EXPLORATION LLC	1/8+	1052	648	N/A	N/A	N/A	N/A
10*27703	9-3-1	A	DOROTHY MAXINNE MOORE TRUST	TH EXPLORATION LLC	1/8+	1061	255	N/A	N/A	N/A	N/A
10*26711	9-2-10.1	B	CNX GAS COMPANY LLC	TH EXPLORATION LLC	1/8+	1039	1	N/A	N/A	N/A	N/A
10*26044	9-3-1.1	C	JOYCE A WALLACE	CHEVRON USA INC	1/8+	863	296	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26047	9-3-1.1	C	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE	CHEVRON USA INC	1/8+	863	138	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26048	9-3-1.1	C	LOIS J ELIAS AND LOUIS J ELIAS	CHEVRON USA INC	1/8+	861	599	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26049	9-3-1.1	C	MARY H HUBBS	CHEVRON USA INC	1/8+	863	560	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26050	9-3-1.1	C	BERNARD O CROW AND KAREN S CROW	CHEVRON USA INC	1/8+	863	627	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26051	9-3-1.1	C	ROBERT W KIDNER	CHEVRON USA INC	1/8+	863	644	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26052	9-3-1.1	C	BETTY J BLAKE	CHEVRON USA INC	1/8+	863	545	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26053	9-3-1.1	C	ANTHONY T MOORE	CHEVRON USA INC	1/8+	854	343	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26054	9-3-1.1	C	HIRAM VERNON MOORE	CHEVRON USA INC	1/8+	854	353	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26055	9-3-1.1	C	LARRY W MOORE SR	CHEVRON USA INC	1/8+	854	348	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26056	9-3-1.1	C	RONALD W MOORE	CHEVRON USA INC	1/8+	854	338	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26057	9-3-1.1	C	JOHN PURDY AND BRENDA S PURDY	CHEVRON USA INC	1/8+	854	420	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26058	9-3-1.1	C	CAROLE J WOOD	CHEVRON USA INC	1/8+	854	415	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26059	9-3-1.1	C	TERRY L BLAKE	CHEVRON USA INC	1/8+	854	215	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26060	9-3-1.1	C	ROBERT C BLAKE AND LYN BLAKE	CHEVRON USA INC	1/8+	854	333	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26061	9-3-1.1	C	RODNEY W AND LINDA L HUBBS	CHEVRON USA INC	1/8+	854	435	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26062	9-3-1.1	C	SHANNON ROGER AND LORRAINE HUBBS	CHEVRON USA INC	1/8+	854	233	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26063	9-3-1.1	C	PATTY L RINE AND FLOYD D RINE	CHEVRON USA INC	1/8+	854	238	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26064	9-3-1.1	C	CATHARINE LEE BLAKE	CHEVRON USA INC	1/8+	863	550	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26066	9-3-1.1	C	DANNY E AND MARVA L BEYSER	CHEVRON USA INC	1/8+	858	36	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26067	9-3-1.1	C	DONALD DEAN BEYSER	CHEVRON USA INC	1/8+	858	41	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26068	9-3-1.1	C	GARY F BLAKE AND DORIS E BLAKE	CHEVRON USA INC	1/8+	858	31	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26069	9-3-1.1	C	MARILYN SUE REILLEY	CHEVRON USA INC	1/8+	857	597	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26070	9-3-1.1	C	MARY W HOLMES	CHEVRON USA INC	1/8+	857	602	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26071	9-3-1.1	C	CHARLENE LORRAINE BAKER	CHEVRON USA INC	1/8+	857 607	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26072	9-3-1.1	C	JAMES L BLAKE	CHEVRON USA INC	1/8+	857 616	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26073	9-3-1.1	C	DARLENE L BEYSER	CHEVRON USA INC	1/8+	860 176	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26074	9-3-1.1	C	RANDLYN MOORE AKA RANDY MOORE	CHEVRON USA INC	1/8+	860 166	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26075	9-3-1.1	C	BETTY JOANN CECIL	CHEVRON USA INC	1/8+	860 119	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26076	9-3-1.1	C	DORIS IMOGENE GARRISON	CHEVRON USA INC	1/8+	860 114	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26077	9-3-1.1	C	DOROTHY J AND ROBERT M BLAKE	CHEVRON USA INC	1/8+	860 104	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26078	9-3-1.1	C	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	860 228	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26079	9-3-1.1	C	MARY O'DESSA HARRIS LOUDEN	CHEVRON USA INC	1/8+	860 109	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26080	9-3-1.1	C	SHARON DIANE HOLMES JAHN AND WILLIAM HENRY JAHN III - W/H	CHEVRON USA INC	1/8+	860 217	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26081	9-3-1.1	C	CYNTHIA JEAN AND EDDIE W WILSON	CHEVRON USA INC	1/8+	861 545	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26082	9-3-1.1	C	BRIAN C AND SARA M LUTZ	CHEVRON USA INC	1/8+	861 550	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26083	9-3-1.1	C	WILLIAM S BLAKE JR	CHEVRON USA INC	1/8+	861 535	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26084	9-3-1.1	C	CYNTHIA A AND JAMES O DAVIDSON	CHEVRON USA INC	1/8+	889 46	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26085	9-3-1.1	C	CLYDE R AND JANA HIGGINS	CHEVRON USA INC	1/8+	861	508	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26086	9-3-1.1	C	DELMAS W AND ROSE HIGGINS	CHEVRON USA INC	1/8+	861	503	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26087	9-3-1.1	C	JERRY L AND DENISE HIGGINS	CHEVRON USA INC	1/8+	861	526	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26088	9-3-1.1	C	SHIRL W AND DORIS HIGGINS	CHEVRON USA INC	1/8+	861	540	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26089	9-3-1.1	C	ALVA L AND SHIRLEY HIGGINS	CHEVRON USA INC	1/8+	861	521	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26090	9-3-1.1	C	H DEAN AND KAREN HIGGINS	CHEVRON USA INC	1/8+	861	516	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26091	9-3-1.1	C	JOELENE M MANN	CHEVRON USA INC	1/8+	864	55	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26092	9-3-1.1	C	SHAWN J AND SARAH E CREWS	CHEVRON USA INC	1/8+	864	50	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26093	9-3-1.1	C	JOYCE HOLMES CONE AND WILLIAM CONE - W/H	CHEVRON USA INC	1/8+	861	493	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26094	9-3-1.1	C	MARK L CURRY	CHEVRON USA INC	1/8+	865	102	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26095	9-3-1.1	C	CHRISTINA C MUNSON	CHEVRON USA INC	1/8+	865	107	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26097	9-3-1.1	C	DAVID L BEYSER	CHEVRON USA INC	1/8+	865	173	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26098	9-3-1.1	C	KIMBERLY J HOLDER	CHEVRON USA INC	1/8+	867	87	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26099	9-3-1.1	C	CAROL TROWBRIDGE ET VIR	CHEVRON USA INC	1/8+	866	138	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26100	9-3-1.1	C	JOSEPH L AND ROSE MARIE MAUPIN	CHEVRON USA INC	1/8+	866	67	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26120	9-3-1.1	C	JAMES D AND LINDA D YOCUM	CHEVRON USA INC	1/8+	884	635	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26121	9-3-1.1	C	BETTY BRYNER	CHEVRON USA INC	1/8+	871	64	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26236	9-3-1.1	C	GERALD W QUIGLEY AND VICKI L QUIGLEY	CHEVRON USA INC	1/8+	884	50	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26237	9-3-1.1	C	FREDA L CAMPBELL	CHEVRON USA INC	1/8+	889	40	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26238	9-3-1.1	C	MARSHA L MERCER	CHEVRON USA INC	1/8+	883	639	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26287	9-3-1.1	C	IVAN R AND MARY A BLAKE	CHEVRON USA INC	1/8+	888	542	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26288	9-3-1.1	C	REBECCA J BLAKE	CHEVRON USA INC	1/8+	888	571	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26289	9-3-1.1	C	DUANETTA B BLAKE FROMHART	CHEVRON USA INC	1/8+	888	574	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26291	9-3-1.1	C	BARBARA A BLAKE MASON	CHEVRON USA INC	1/8+	901	125	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26292	9-3-1.1	C	JUDITH L BLAKE	CHEVRON USA INC	1/8+	882	329	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26293	9-3-1.1	C	JAY C CURRY	CHEVRON USA INC	1/8+	882	433	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26294	9-3-1.1	C	JOAN A GIEGER	CHEVRON USA INC	1/8+	880	509	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26295	9-3-1.1	C	ARTHUR LEE WARYCK	CHEVRON USA INC	1/8+	880	512	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26296	9-3-1.1	C	CARL G CALDWELL	CHEVRON USA INC	1/8+	883	530	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26297	9-3-1.1	C	DIANA L MCKINNEY	CHEVRON USA INC	1/8+	885	560	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26298	9-3-1.1	C	JANE HENDRICKSON	CHEVRON USA INC	1/8+	886	429	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26299	9-3-1.1	C	BETTY WILKINSON DANIEL A MCVANE AIF	CHEVRON USA INC	1/8+	886	432	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26300	9-3-1.1	C	JILL LORI HENNEN BARNETT	CHEVRON USA INC	1/8+	886	439	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26711	9-3-1.1	C	CNX GAS COMPANY LLC	TH EXPLORATION LLC	1/8+	1039	1	N/A	N/A	N/A	N/A
10*27180	9-3-1.1	C	TAMALA SCOLLICK	TH EXPLORATION LLC	1/8+	1053	1	N/A	N/A	N/A	N/A
10*26065	9-3-1.1	C	DENNIS F MOORE JOLENE A MOORE	CHEVRON USA INC	1/8+	857	646	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27181	9-3-1.1	C	CRYSTAL THOMAS	TH EXPLORATION LLC	1/8+	1052	648	N/A	N/A	N/A	N/A
10*27703	9-3-1.1	C	DOROTHY MAXINNE MOORE TRUST	TH EXPLORATION LLC	1/8+	1061	255	N/A	N/A	N/A	N/A
10*26018	9-3-1.3	D	NANCY L WEST	TRIENERGY HOLDINGS, LLC	1/8+	737	248	TriEnergy Holdings LLC to NPAR LLC: 25/449	NPAR LLC to Chevron USA Inc: 756/332	TriEnergy Inc to Chevron USA Inc: 28356	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26044	9-3-1.3	D	JOYCE A WALLACE	CHEVRON USA INC	1/8+	863	296	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26047	9-3-1.3	D	ROBERT D BLAKE AND ATHENA LIBERTY BLAKE	CHEVRON USA INC	1/8+	863	138	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26048	9-3-1.3	D	LOIS J ELIAS AND LOUIS J ELIAS	CHEVRON USA INC	1/8+	861	599	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26049	9-3-1.3	D	MARY H HUBBS	CHEVRON USA INC	1/8+	863	560	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26050	9-3-1.3	D	BERNARD O CROW AND KAREN S CROW	CHEVRON USA INC	1/8+	863	627	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26051	9-3-1.3	D	ROBERT W KIDNER	CHEVRON USA INC	1/8+	863	644	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26052	9-3-1.3	D	BETTY J BLAKE	CHEVRON USA INC	1/8+	863	545	WV Department of Environmental Protection N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26053	9-3-1.3	D	ANTHONY T MOORE	CHEVRON USA INC	1/8+	854	343	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26054	9-3-1.3	D	HIRAM VERNON MOORE	CHEVRON USA INC	1/8+	854	353	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26055	9-3-1.3	D	LARRY W MOORE SR	CHEVRON USA INC	1/8+	854	348	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26056	9-3-1.3	D	RONALD W MOORE	CHEVRON USA INC	1/8+	854	338	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26057	9-3-1.3	D	JOHN PURDY AND BRENDA S PURDY	CHEVRON USA INC	1/8+	854	420	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26058	9-3-1.3	D	CAROLE J WOOD	CHEVRON USA INC	1/8+	854	415	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26059	9-3-1.3	D	TERRY L BLAKE	CHEVRON USA INC	1/8+	854	215	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26060	9-3-1.3	D	ROBERT C BLAKE AND LYN BLAKE	CHEVRON USA INC	1/8+	854	333	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26061	9-3-1.3	D	RODNEY W AND LINDA L HUBBS	CHEVRON USA INC	1/8+	854	435	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26062	9-3-1.3	D	SHANNON ROGER AND LORRAINE HUBBS	CHEVRON USA INC	1/8+	854	233	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26063	9-3-1.3	D	PATTY L RINE AND FLOYD D RINE	CHEVRON USA INC	1/8+	854	238	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26064	9-3-1.3	D	CATHARINE LEE BLAKE	CHEVRON USA INC	1/8+	863	550	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26066	9-3-1.3	D	DANNY E AND MARVA L BEYSER	CHEVRON USA INC	1/8+	858	36	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26067	9-3-1.3	D	DONALD DEAN BEYSER	CHEVRON USA INC	1/8+	858	41	N/A	WV Department of Environmental Protection	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26068	9-3-1.3	D	GARY F BLAKE AND DORIS E BLAKE	CHEVRON USA INC	1/8+	858	31	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26069	9-3-1.3	D	MARILYN SUE REILLEY	CHEVRON USA INC	1/8+	857	597	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26070	9-3-1.3	D	MARY W HOLMES	CHEVRON USA INC	1/8+	857	602	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26071	9-3-1.3	D	CHARLENE LORRAINE BAKER	CHEVRON USA INC	1/8+	857	607	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26072	9-3-1.3	D	JAMES L BLAKE	CHEVRON USA INC	1/8+	857	616	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26073	9-3-1.3	D	DARLENE L BEYSER	CHEVRON USA INC	1/8+	860	176	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26074	9-3-1.3	D	RANDYLYN MOORE AKA RANDY MOORE	CHEVRON USA INC	1/8+	860	166	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26075	9-3-1.3	D	BETTY JOANN CECIL	CHEVRON USA INC	1/8+	860	119	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26076	9-3-1.3	D	DORIS IMOGENE GARRISON	CHEVRON USA INC	1/8+	860	114	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26077	9-3-1.3	D	DOROTHY J AND ROBERT M BLAKE	CHEVRON USA INC	1/8+	860	104	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26078	9-3-1.3	D	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	860	228	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26079	9-3-1.3	D	MARY O'DESSA HARRIS LOUDEN	CHEVRON USA INC	1/8+	860	109	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26080	9-3-1.3	D	SHARON DIANE HOLMES JAHN AND WILLILAM HENRY JAHN III - W/H	CHEVRON USA INC	1/8+	860	217	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26081	9-3-1.3	D	CYNTHIA JEAN AND EDDIE W WILSON	CHEVRON USA INC	1/8+	861	545	N/A	WV Department of Environmental Protection	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26082	9-3-1.3	D	BRIAN C AND SARA M LUTZ	CHEVRON USA INC	1/8+	861	550	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26083	9-3-1.3	D	WILLIAM S BLAKE JR	CHEVRON USA INC	1/8+	861	535	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26084	9-3-1.3	D	CYNTHIA A AND JAMES O DAVIDSON	CHEVRON USA INC	1/8+	889	46	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26085	9-3-1.3	D	CLYDE R AND JANA HIGGINS	CHEVRON USA INC	1/8+	861	508	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26086	9-3-1.3	D	DELMAS W AND ROSE HIGGINS	CHEVRON USA INC	1/8+	861	503	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26087	9-3-1.3	D	JERRY L AND DENISE HIGGINS	CHEVRON USA INC	1/8+	861	526	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26088	9-3-1.3	D	SHIRL W AND DORIS HIGGINS	CHEVRON USA INC	1/8+	861	540	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26089	9-3-1.3	D	ALVA L AND SHIRLEY HIGGINS	CHEVRON USA INC	1/8+	861	521	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26090	9-3-1.3	D	H DEAN AND KAREN HIGGINS	CHEVRON USA INC	1/8+	861	516	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26091	9-3-1.3	D	JOELENE M MANN	CHEVRON USA INC	1/8+	864	55	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26092	9-3-1.3	D	SHAWN J AND SARAH E CREWS	CHEVRON USA INC	1/8+	864	50	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26093	9-3-1.3	D	JOYCE HOLMES CONE AND WILLIAM CONE - W/H	CHEVRON USA INC	1/8+	861	493	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26094	9-3-1.3	D	MARK L CURRY	CHEVRON USA INC	1/8+	865	102	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26095	9-3-1.3	D	CHRISTINA C MUNSON	CHEVRON USA INC	1/8+	865	107	N/A	WV Department of Environmental Protection	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26097	9-3-1.3	D	DAVID L BEYSER	CHEVRON USA INC	1/8+	865	173	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26098	9-3-1.3	D	KIMBERLY J HOLDER	CHEVRON USA INC	1/8+	867	87	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26099	9-3-1.3	D	CAROL TROWBRIDGE ET VIR	CHEVRON USA INC	1/8+	866	138	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26100	9-3-1.3	D	JOSEPH L AND ROSE MARIE MAUPIN	CHEVRON USA INC	1/8+	866	67	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26120	9-3-1.3	D	JAMES D AND LINDA D YOCUM	CHEVRON USA INC	1/8+	884	635	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26121	9-3-1.3	D	BETTY BRYNER	CHEVRON USA INC	1/8+	871	64	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26236	9-3-1.3	D	GERALD W QUIGLEY AND VICKI L QUIGLEY	CHEVRON USA INC	1/8+	884	50	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26237	9-3-1.3	D	FREDA L CAMPBELL	CHEVRON USA INC	1/8+	889	40	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26238	9-3-1.3	D	MARSHA L MERCER	CHEVRON USA INC	1/8+	883	639	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26287	9-3-1.3	D	IVAN R AND MARY A BLAKE	CHEVRON USA INC	1/8+	888	542	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26288	9-3-1.3	D	REBECCA J BLAKE	CHEVRON USA INC	1/8+	888	571	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26289	9-3-1.3	D	DUANETTA B BLAKE FROMHART	CHEVRON USA INC	1/8+	888	574	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26291	9-3-1.3	D	BARBARA A BLAKE MASON	CHEVRON USA INC	1/8+	901	125	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment	
10*26192	9-3-1.3	D	JUDITH L BLAKE	CHEVRON USA INC	1/8+	882	329	N/A	WV Department of Environmental Protection	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26293	9-3-1.3	D	JAY C CURRY	CHEVRON USA INC	1/8+	882	433	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26294	9-3-1.3	D	JOAN A GIEGER	CHEVRON USA INC	1/8+	880	509	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26295	9-3-1.3	D	ARTHUR LEE WARYCK	CHEVRON USA INC	1/8+	880	512	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26296	9-3-1.3	D	CARL G CALDWELL	CHEVRON USA INC	1/8+	883	530	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26297	9-3-1.3	D	DIANA L MCKINNEY	CHEVRON USA INC	1/8+	885	560	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26298	9-3-1.3	D	JANE HENDRICKSON	CHEVRON USA INC	1/8+	886	429	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26299	9-3-1.3	D	BETTY WILKINSON DANIEL A MCVANE AIF	CHEVRON USA INC	1/8+	886	432	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26300	9-3-1.3	D	JILL LORI HENNEN BARNETT	CHEVRON USA INC	1/8+	886	439	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27180	9-3-1.3	D	TAMALA SCOLLICK	TH EXPLORATION LLC	1/8+	1053	1	N/A		N/A	N/A	N/A
10*27181	9-3-1.3	D	CRYSTAL THOMAS	TH EXPLORATION LLC	1/8+	1052	648	N/A		N/A	N/A	N/A
10*26065	9-3-1.3	D	DENNIS F MOORE JOLENE A MOORE	CHEVRON USA INC	1/8+	857	646	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27703	9-3-1.3	D	DOROTHY MAXINNE MOORE TRUST	TH EXPLORATION LLC	1/8+	1061	255	N/A		N/A	N/A	N/A
10*47051.109.0	9-8-4.2	E	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	859	440	N/A		N/A	N/A	N/A
10*28092	9-8-4.2	E	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY	TH EXPLORATION LLC	1/8+	1073	370	N/A		N/A	N/A	N/A
10*47051.109.0	9-8-4	F	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	859	440	N/A		N/A	N/A	N/A
10*28092	9-8-4	F	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY	TH EXPLORATION LLC	1/8+	1073	370	N/A		N/A	N/A	N/A
10*26113	9-8-3	G	ELDWIN OTIS RINE AND MARY L RINE	CHEVRON USA INC	1/8+	880	434	N/A		N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26114	9-8-3	G	VELMA RUTH HARRIS	CHEVRON USA INC	1/8+	873	574	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26115	9-8-3	G	JOYCE L LAMB	CHEVRON USA INC	1/8+	880	437	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26123	9-8-3	G	LAURA R BARKER	CHEVRON USA INC	1/8+	873	584	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26124	9-8-3	G	PATTY D JEFFERSON	CHEVRON USA INC	1/8+	874	41	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26125	9-8-3	G	DEBORAH A COLLINS	CHEVRON USA INC	1/8+	874	27	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26126	9-8-3	G	WILLIAM C WEST	CHEVRON USA INC	1/8+	880	431	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26168	9-8-3	G	LEANNE E BURKHART	CHEVRON USA INC	1/8+	873	602	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26169	9-8-3	G	LISA MAY WINGROVE	CHEVRON USA INC	1/8+	880	422	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26170	9-8-3	G	JENNIFER L WALKER	CHEVRON USA INC	1/8+	874	36	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26171	9-8-3	G	MELISSA NADINE KNIGHT	CHEVRON USA INC	1/8+	873	590	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26172	9-8-3	G	NELDA RUTH MOORE	CHEVRON USA INC	1/8+	873	593	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26173	9-8-3	G	DEANNE E ANDERSON	CHEVRON USA INC	1/8+	874	30	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26174	9-8-3	G	JANICE M BURKHART	CHEVRON USA INC	1/8+	873	599	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26175	9-8-3	G	CAROL LYNN KELCH	CHEVRON USA INC	1/8+	880	425	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26176	9-8-3	G	LINDA L AGUILAR	CHEVRON USA INC	1/8+	874	33	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26177	9-8-3	G	OTIS R BURKHART JR	CHEVRON USA INC	1/8+	873	587	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26178	9-8-3	G	MELBA L BELL	CHEVRON USA INC	1/8+	873	577	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26179	9-8-3	G	HILLVIEW TERRACE CHURCH OF CHRIST D/B/A WEST VIRGINIA SCHOOL OF PREACHING	CHEVRON USA INC	1/8+	873	580	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26196	9-8-3	G	CHRISTINA ROSE BUTLER	CHEVRON USA INC	1/8+	876	298	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26197	9-8-3	G	RONALD DEAN BURKHART	CHEVRON USA INC	1/8+	876	301	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26198	9-8-3	G	SALEM CHURCH OF CHRIST OF GLEN EASTON WV	CHEVRON USA INC	1/8+	876	304	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26199	9-8-3	G	DANIEL M RINE	CHEVRON USA INC	1/8+	880	457	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26200	9-8-3	G	DEBRA A CLARK	CHEVRON USA INC	1/8+	880	454	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26242	9-8-3	G	TRACI LYNN GOODNIGHT	CHEVRON USA INC	1/8+	882	173	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26243	9-8-3	G	MARLA JEAN TRUEX	CHEVRON USA INC	1/8+	882	164	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26244	9-8-3	G	BRENDA KAY LAVENSKI	CHEVRON USA INC	1/8+	882	167	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26245	9-8-3	G	TERESA ANN HARTLE	CHEVRON USA INC	1/8+	882	326	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26246	9-8-3	G	LISA MARIE WILLIAMS	CHEVRON USA INC	1/8+	882	170	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26247	9-8-3	G	CYNTHIA L BOUGHER	CHEVRON USA INC	1/8+	884	27	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*23739	9-8-5	H	APPALACHIAN BASIN MINERALS LP	TH EXPLORATION LLC	1/8+	1011	538	N/A	N/A	N/A	N/A
10*23740	9-8-5	H	PENNMARC RESOURCES II LP	TH EXPLORATION LLC	1/8+	1011	532	N/A	N/A	N/A	N/A
10*23741	9-8-5	H	MCCROW ENERGY PARTNERS II LLC	TH EXPLORATION LLC	1/8+	1011	515	N/A	N/A	N/A	N/A
10*23742	9-8-5	H	PURPLEBURGH VENTURES, LLC	TH EXPLORATION LLC	1/8+	1011	536	N/A	N/A	N/A	N/A
10*23743	9-8-5	H	WILDES MINERAL INTERESTS LLC	TH EXPLORATION LLC	1/8+	1011	534	N/A	N/A	N/A	N/A
10*23749	9-8-5	H	MARCELLUS TX MINERAL PRTNR LTD	TH EXPLORATION LLC	1/8+	1012	193	N/A	N/A	N/A	N/A
10*22760	9-8-4.1	I	DONALD M AND THERESA L HARRIS	TH EXPLORATION LLC	1/8+	968	294	N/A	N/A	N/A	N/A
10*28092	9-8-4.1	I	WV DEPT OF TRANSPORTATION, DIVISION OF HWY	TH EXPLORATION LLC	1/8+	1073	370	N/A	N/A	N/A	N/A
10*22745	9-8-11	J	BONNIE J JENKINS	TH EXPLORATION LLC	1/8+	968	288	N/A	N/A	N/A	N/A
10*23314	9-8-11	J	CYNTHIA WATSON	TH EXPLORATION LLC	1/8+	988	499	N/A	N/A	N/A	N/A
10*23353	9-8-11	J	SHARON E MCDONALD AND HAROLD S MCDONALD	TH EXPLORATION LLC	1/8+	988	495	N/A	N/A	N/A	N/A
10*25718	9-8-11	J	KATHLEEN JEANNE B JENKINS	TH EXPLORATION LLC	1/8+	1035	13	N/A	N/A	N/A	N/A
10*25719	9-8-11	J	NICHOLE M JENKINS	TH EXPLORATION LLC	1/8+	1035	17	N/A	N/A	N/A	N/A
10*26025	9-8-11	J	DAVID D MURRAY	CHEVRON USA INC	1/8+	791	45	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26026	9-8-11	J	JUDITH ELLEN DOTY	CHEVRON USA INC	1/8+	787	249	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26027	9-8-11	J	DANIEL W CHAPMAN	CHEVRON USA INC	1/8+	788	111	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26028	9-8-11	J	DAVID W CHAPMAN	CHEVRON USA INC	1/8+	788	104	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26029	9-8-11	J	GREGORY L CHAPMAN	CHEVRON USA INC	1/8+	788	96	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26030	9-8-11	J	DONALD CARMICHAEL	CHEVRON USA INC	1/8+	787	471	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26031	9-8-11	J	SARAH LEONA MCGLONE	CHEVRON USA INC	1/8+	787	478	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26032	9-8-11	J	MARGARET ANN JONES	CHEVRON USA INC	1/8+	787	364	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26033	9-8-11	J	LINDA S COLEMAN	CHEVRON USA INC	1/8+	791	143	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26035	9-8-11	J	PATRICK P TRUEX	CHEVRON USA INC	1/8+	791	219	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26038	9-8-11	J	DOUGLAS A WAYSON	CHEVRON USA INC	1/8+	811	440	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26039	9-8-11	J	DAWNETTA M WAYSON	CHEVRON USA INC	1/8+	807	420	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26040	9-8-11	J	ROBERT BRANDT WAYSON	CHEVRON USA INC	1/8+	808	524	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26042	9-8-11	J	SHARON ANN PETERSON	CHEVRON USA INC	1/8+	838	396	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26043	9-8-11	J	GREGORY A CHAPMAN	CHEVRON USA INC	1/8+	834	354	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26204	9-8-11	J	COLE DALE GRIMM	CHEVRON USA INC	1/8+	889	244	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26494	9-8-11	J	JOHN P JENKINS	TH EXPLORATION LLC	1/8+	1037	434	N/A	N/A	N/A	N/A
10*27524	9-8-11	J	KEVIN A MYSLIWIEC AND SANDY L MYSLIWIEC	CHEVRON USA INC	1/8+	784	292	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*27527	9-8-11	J	PETER J & JUDY B MYSLIWIEC	CHEVRON USA INC	1/8+	784	285	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*21246	9-8-10	K	THE ESTATE OF THERESA M ROGERSON CHARLES J ROGERSON EXECUTOR	TH EXPLORATION LLC	1/8+	952	422	N/A	N/A	N/A	N/A
10*21326	9-8-10	K	DENISE L FASSETT AND RONALD L FASSETT	TH EXPLORATION LLC	1/8+	952	424	N/A	N/A	N/A	N/A
10*21331	9-8-10	K	DAVID E MYSLIWIEC	TH EXPLORATION LLC	1/8+	952	426	N/A	N/A	N/A	N/A
10*22745	9-8-10	K	BONNIE J JENKINS	TH EXPLORATION LLC	1/8+	968	288	N/A	N/A	N/A	N/A
10*22764	9-8-10	K	GARY D OLSON AND ILENE J OLSON	TH EXPLORATION LLC	1/8+	970	74	N/A	N/A	N/A	N/A
10*22765	9-8-10	K	KRIS E OLSON AND BOBBI L OLSON	TH EXPLORATION LLC	1/8+	970	72	N/A	N/A	N/A	N/A
10*22766	9-8-10	K	TOD E OLSON AND COLLEEN G OLSON	TH EXPLORATION LLC	1/8+	970	70	N/A	N/A	N/A	N/A
10*23314	9-8-10	K	CYNTHIA WATSON	TH EXPLORATION LLC	1/8+	988	499	N/A	N/A	N/A	N/A
10*23353	9-8-10	K	SHARON E MCDONALD AND HAROLD S MCDONALD	TH EXPLORATION LLC	1/8+	988	495	N/A	N/A	N/A	N/A
10*24552	9-8-10	K	KELLI S CALKINS	TH EXPLORATION LLC	1/8+	1025	415	N/A	N/A	N/A	N/A
10*25718	9-8-10	K	KATHLEEN JEANNE B JENKINS	TH EXPLORATION LLC	1/8+	1035	13	N/A	N/A	N/A	N/A
10*25719	9-8-10	K	NICHOLE M JENKINS	TH EXPLORATION LLC	1/8+	1035	17	N/A	N/A	N/A	N/A

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10*26026	9-8-10	K	JUDITH ELLEN DOTY	CHEVRON USA INC	1/8+	787	249	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26027	9-8-10	K	DANIEL W CHAPMAN	CHEVRON USA INC	1/8+	788	111	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26028	9-8-10	K	DAVID W CHAPMAN	CHEVRON USA INC	1/8+	788	104	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26029	9-8-10	K	GREGORY L CHAPMAN	CHEVRON USA INC	1/8+	788	96	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26030	9-8-10	K	DONALD CARMICHAEL	CHEVRON USA INC	1/8+	787	471	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26031	9-8-10	K	SARAH LEONA MCGLONE	CHEVRON USA INC	1/8+	787	478	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26032	9-8-10	K	MARGARET ANN JONES	CHEVRON USA INC	1/8+	787	364	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26033	9-8-10	K	LINDA S COLEMAN	CHEVRON USA INC	1/8+	791	143	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26034	9-8-10	K	LUANN N HIMMELFARB	CHEVRON USA INC	1/8+	791	205	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26035	9-8-10	K	PATRICK P TRUEX	CHEVRON USA INC	1/8+	791	219	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26038	9-8-10	K	DOUGLAS A WAYSON	CHEVRON USA INC	1/8+	811	440	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26039	9-8-10	K	DAWNETTA M WAYSON	CHEVRON USA INC	1/8+	807	420	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26040	9-8-10	K	ROBERT BRANDT WAYSON	CHEVRON USA INC	1/8+	808	524	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95

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10*26043	9-8-10	K	GREGORY A CHAPMAN	CHEVRON USA INC	1/8+	834	354	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26204	9-8-10	K	COLE DALE GRIMM	CHEVRON USA INC	1/8+	889	244	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95
10*26494	9-8-10	K	JOHN P JENKINS	TH EXPLORATION LLC	1/8+	1037	434	N/A	N/A	N/A	N/A	N/A
10*27140	9-8-10	K	ROGER C PATTAN AND TARA I PATTAN	TH EXPLORATION LLC	1/8+	1052	498	N/A	N/A	N/A	N/A	N/A
10*27466	9-8-10	K	TANICE J SCHNIER	CHEVRON USA INC	1/8+	898	273	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27467	9-8-10	K	ROBIN K JASA	CHEVRON USA INC	1/8+	899	502	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27468	9-8-10	K	PETER J & JUDY B MYSLIWIEC	CHEVRON USA INC	1/8+	882	200	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27469	9-8-10	K	KEVIN A MYSLIWIEC AND SANDY L MYSLIWIEC	CHEVRON USA INC	1/8+	882	197	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27470	9-8-10	K	HARLAN OLSON AND LYNNETTE OLSON	CHEVRON USA INC	1/8+	899	244	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27471	9-8-10	K	KENNETH IREY	CHEVRON USA INC	1/8+	904	341	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27472	9-8-10	K	KAREN K KRUSE	CHEVRON USA INC	1/8+	899	258	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27473	9-8-10	K	JOYCE A NELSEN	CHEVRON USA INC	1/8+	902	538	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27474	9-8-10	K	DANNY OLSON	CHEVRON USA INC	1/8+	902	535	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27475	9-8-10	K	ALAN S PALLAS	CHEVRON USA INC	1/8+	898	470	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27515	9-8-10	K	WILLIAM L MCKINLEY	CHEVRON USA INC	1/8+	899	517	N/A	N/A	N/A	N/A	Chevron USA Inc to TH Exploration LLC: 44/357
10*27755	9-8-10	K	THE UNKNOWN HEIRS OF WILLIAM CLIFFORD OLSON ET AL *	TH EXPLORATION LLC	1/8+	1060	468	N/A	N/A	N/A	N/A	N/A
10*28301	9-8-10	K	NADINE I STEVENSON	TH EXPLORATION LLC	1/8+	1067	374	N/A	N/A	N/A	N/A	N/A
N/A	9-9-4	L	MARY LOU RUBINI FKA MARY LOU MILLER	CHEVRON USA INC	1/8+	793	287	**FORCE POOL**				
N/A	9-9-4	L	ERIC KATZMEYER	CHEVRON USA INC	1/8+	791	226	**FORCE POOL**				
N/A	9-9-4	L	DAVID KATZMEYER AND SHIRLEY A KATZMEYER, H/W	CHEVRON USA INC	1/8+	792	226	**FORCE POOL**				
10*19987	9-9-16	M	LESLEY D BALLA	TH EXPLORATION LLC	1/8+	955	103	N/A	N/A	N/A	N/A	N/A
10*19993	9-9-16	M	DIANA D COSLICK	TH EXPLORATION LLC	1/8+	955	105	N/A	N/A	N/A	N/A	N/A
10*19994	9-9-16	M	ELAINE A FONTES	TH EXPLORATION LLC	1/8+	960	36	N/A	N/A	N/A	N/A	N/A
10*21117	9-9-16	M	JOELLYN JOHNSON	TH EXPLORATION LLC	1/8+	952	392	N/A	N/A	N/A	N/A	N/A
10*21322	9-9-16	M	PHILLIP H WAYT AND BILLIE A WAYT	TH EXPLORATION LLC	1/8+	953	293	N/A	N/A	N/A	N/A	N/A

WW-6A1 Supplement

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Lease ID	Parcel	Tags	Grantor, Lessor, Etc.	Grantee, Lessee, Etc.	Royalty	Deed Book/Page		Assignment	Assignment	Assignment	Assignment
10*22199	9-9-16	M	DONALD BROOKS WESLEY	BLUE ROAN RESOURCES LLC	1/8+	926	424	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22201	9-9-16	M	FREDERICK MAXWELL YEATER	BLUE ROAN RESOURCES LLC	1/8+	926	422	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22202	9-9-16	M	MARK DAVID HUNT	BLUE ROAN RESOURCES LLC	1/8+	935	109	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22203	9-9-16	M	MELISSA ELAINE SCHROTH	BLUE ROAN RESOURCES LLC	1/8+	934	471	N/A	N/A	N/A	Blue Roan Resources, LLC to TH Exploration, LLC: 41/405
10*22526	9-9-16	M	BARBARA FURFARI	TH EXPLORATION LLC	1/8+	964	528	N/A	N/A	N/A	N/A
10*22528	9-9-16	M	RONALD DAKAN	TH EXPLORATION LLC	1/8+	964	530	N/A	N/A	N/A	N/A
10*22553	9-9-16	M	DAVID H DAKAN	TH EXPLORATION LLC	1/8+	966	130	N/A	N/A	N/A	N/A
10*22783	9-9-16	M	SUZANNE SWIFT	TH EXPLORATION LLC	1/8+	972	85	N/A	N/A	N/A	N/A
10*23315	9-9-16	M	TIM A WILLIS AND DIANE CLARE WILLIS	TH EXPLORATION LLC	1/8+	988	138	N/A	N/A	N/A	N/A
10*24047	9-9-16	M	BESSIE CARMICHAEL ET AL SHANE M MALLET, SPECIAL COMMISSIONER	TH EXPLORATION LLC	1/8+	1021	117	N/A	N/A	N/A	N/A
10*24397	9-9-16	M	MARK D CHAMBERS AND SHERYL CHAMBERS	TH EXPLORATION LLC	1/8+	1023	163	N/A	N/A	N/A	N/A
10*24398	9-9-16	M	TODD SCHERICH AND WANDA D SCHERICH	TH EXPLORATION LLC	1/8+	1023	160	N/A	N/A	N/A	N/A
10*24413	9-9-16	M	BRADLEY S SCHERICH AND LEIGH SCHERICH	TH EXPLORATION LLC	1/8+	1023	157	N/A	N/A	N/A	N/A

*Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.

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STATE OF WEST VIRGINIA §
 §
COUNTY OF MARSHALL §

ASSIGNMENT AND BILL OF SALE

This ASSIGNMENT AND BILL OF SALE (this "Assignment") dated as of February 7, 2019 (the "Signing Date"), but effective from and after 7:00 a.m., Eastern Standard Time on February 1, 2019 (the "Effective Date"), is made by Chevron U.S.A. Inc., a Pennsylvania corporation, with an address at 700 Cherrington Parkway, Coraopolis, PA 15108 ("Chevron" or "Assignor") to TH Exploration II, LLC and TH Exploration, LLC, Texas limited liability companies, with an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (collectively "Assignee") and is accepted by Assignee upon the following terms and conditions.

RECITALS

- A. Assignor desires to sell, convey, transfer, assign and deliver to Assignee Assignor's Crawford 1 well and certain related assets, including certain leasehold interests, located in Marshall County, West Virginia.
- B. Through an Acreage Trade Agreement to be executed contemporaneously with this Assignment, Assignor desires to transfer, convey and assign to Assignee certain of Assignor's oil and gas leasehold interests located in Marshall County, West Virginia in exchange for the transfer, conveyance and assignment to Assignor by Assignee certain of Assignee's oil and gas leasehold interests located in Marshall County, West Virginia.
- C. In consideration of the mutual promises set out in this Assignment, including execution of the Acreage Trade Agreement, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree to be bound by the terms of this Assignment.

1. DEFINITIONS

1.1 **Definitions.** As used in this Assignment, these words and expressions have the following meanings:

"Acreage Trade Agreement" means that certain Acreage Trade Agreement by and between Chevron U.S.A. Inc. and TH Exploration, LLC with an Effective Date of February 1, 2019 to be contemporaneously executed with this Assignment.

"Act" has the meaning given to such term in Section 9.1(C).

"Affiliate" means any legal entity which controls, is controlled by, or is under common control with, another legal entity. An entity is deemed to "control" another if it owns directly or indirectly at least fifty percent of either of the following: (A) the shares entitled to vote at a general election of directors of such

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STATE OF WEST VIRGINIA §
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COUNTY OF MARSHALL §

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "**Assignment**") is made and entered into this 19 day of August 2019 (the "**Effective Date**"), by and between **CHEVRON U.S.A. INC.**, a Pennsylvania corporation, with an address at 700 Cherrington Parkway, Coraopolis, PA 15108 (hereinafter "**Assignor**") and **TH EXPLORATION, LLC**, a Texas limited liability company, with an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (hereinafter "**Assignee**").

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 exclusions; and

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

1. **Assignment.** 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. Any portion of the Leases set forth in the column entitled "Less and Except" on Exhibit A.

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

2. **No Warranty.** The Assignment is made on an "as is, where is" basis without warranty of any kind. Assignor makes no, and expressly disclaims any, representation or warranty to Assignee regarding the Leases, whether express, statutory or implied, in fact, at law, common law, in equity or otherwise.

3. **Successors and Assigns.** The terms of this Assignment shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors and assigns, and such terms shall be covenants running with the land, and with each subsequent transfer or assignment thereof.

4. **Further Assurances.** Assignor and Assignee hereby agree to take all actions and execute, acknowledge, and deliver all such instruments as are necessary or advisable to effectuate the purposes of this Assignment, except Assignor has no obligation to defend title to the Leases.

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ASSIGNMENT OF OIL AND GAS LEASES

This **ASSIGNMENT OF OIL AND GAS LEASES** (the "**Assignment**") is made and entered into this 8th day of March, 2018 (the "**Effective Date**"), from **Blue Roan Resources, LLC**, a West Virginia limited liability company, having an address at 3437 University Avenue, Morgantown, WV, 26505 (hereinafter "**Assignor**"), and **TH Exploration, LLC**, a Texas limited liability company, having an address at 1320 S. University Drive, Suite 500, Fort Worth, TX 76107 (hereinafter "**Assignee**").

WITNESSETH:

WHEREAS, Assignor is the owner of the right, title, and interest in those certain Oil and Gas Leases situated in Marshall County, West Virginia, which are described in Exhibit "A" attached hereto and made a part hereof (hereinafter the "**Leases**"); and

WHEREAS, subject to the exceptions and reservations herein contained, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases.

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00), cash in hand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:

1. **Assignment.** 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, subject to the terms, reservations, waivers and provisions as hereinafter set forth, an undivided interest of all of Assignor's right, title and interest in and to the Leases and all oil, natural gas, natural gas liquids, condensate, casinghead gas and other liquefied or gaseous hydrocarbons or products ("**Hydrocarbons**") thereby held, in any and all depths and formations ("**Assigned Formations**"), together with any and all other rights that are reasonably necessary or convenient to explore for and produce Hydrocarbons from the Assigned Formations, including, but not limited to, the right of surface access, use and occupancy, the right of ingress and egress, the right to conduct geophysical and other exploratory activities, the right to lay pipeline, the right to drill through, but not perforate or stimulate, all other depths and formations necessary for the purpose of reaching the Assigned Formations and to conduct operations therein.

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

2. **Representations and Warranties.** Assignor represents and warrants that such Assignor has not conveyed or otherwise encumbered its interest in the Leases since the time that Assignor obtained its interests in the Leases.

Assignor represents and warrants that, as to its interests in the Leases, Assignor has paid all royalties, overriding royalties, and other payments required by the Leases which were due for the period in which Assignor held its interests in the Leases, including, but not limited to, the interests assigned hereunder, and that Assignor has fully performed all conditions necessary to maintain the Leases in full force and effect during such period.

3. **Successors and Assigns.** The terms of this Assignment shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors and assigns, and such terms shall be covenants running with the land, and with each subsequent transfer or assignment thereof.

4. **Further Assurances.** Assignor and Assignee hereby agree to take all actions and execute, acknowledge, and deliver all such instruments as are necessary or advisable to effectuate the purposes of this Assignment.

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