



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-11HU
47-051-02296-00-00

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-11HU
Farm Name: CNX LAND LLC
U.S. WELL NUMBER: 47-051-02296-00-00
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 19, 2020

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

RE: Application for Deep Well Permit – API #47-051-02296

COMPANY: Tug Hill Operating, LLC

FARM: CNX Land, LLC Hudson S-11HU

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? No.
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'.

Susan Rose
Administrator

** Hudson S-13HU 47-051-02293; Hudson S-12HU 47-051-02292; Ten High 1N-20HU 47-051-02021, Ten High 1N-13HU 47-051-01965; Ten High 1N-12HU 47-051-01961; Ten High 1N-11HU 47-051-01960; Ten High 1S-17HU 47-051-02033; Ten High 1S-16HU 47-051-02028; Ten High 1S-15HU 47-051-02027; Ten High 1S-14HU 47-051-01966; Fitzgerald S-18HU 47-051-02325; Fitzgerald S-19HU 47-051-02326

CERTIFICATE OF CONSENT AND EASEMENT

The undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Meade District, Marshall County, State of West Virginia, shown on the attached plat or survey, hereby consents and grants an easement, pursuant to West Virginia Code, Section 22C-9-7(b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to TH Exploration LLC, its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey (parcels 9-3-1 and 9-3-1.3).

Executed this 9th day of May, 2019.

LLC
CNX LAND, INC.

By: [Signature]
Name: Eric A. Large
Title: Assistant Vice President

Marshall County
Jan Pest, Clerk
Instrument 1454067
05/13/2019 @ 01:53:38 PM
RIGHT OF WAY W/O CONSIDERATION
Book 1040 @ Page 559
Pages Recorded 2
Recording Cost \$ 11.00

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF WASHINGTON

SS:

On this, the 9th day of May, 2019, before me, a notary public, the undersigned officer, personally appeared Eric A. Large who acknowledged himself/herself to be the Assistant Vice President of CNX Land, Inc. and that he/she as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the company by himself/herself as Assistant Vice President.

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

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Mark W. Anderson, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires Sept. 14, 2021
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My Commission Expires: 9/14/2021
Signature/Notary Public: [Signature]
Name/Notary Public (print): Mark W. Anderson

This instrument prepared by:
WV Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304

4838-2618-8605v2

ERC 1706 - Hudson Pad

RECEIVED
Office of Oil and Gas

NOV 08 2019

DEPARTMENT OF
Environmental Protection

4705102296

PLAT



4838-2618-8605v2

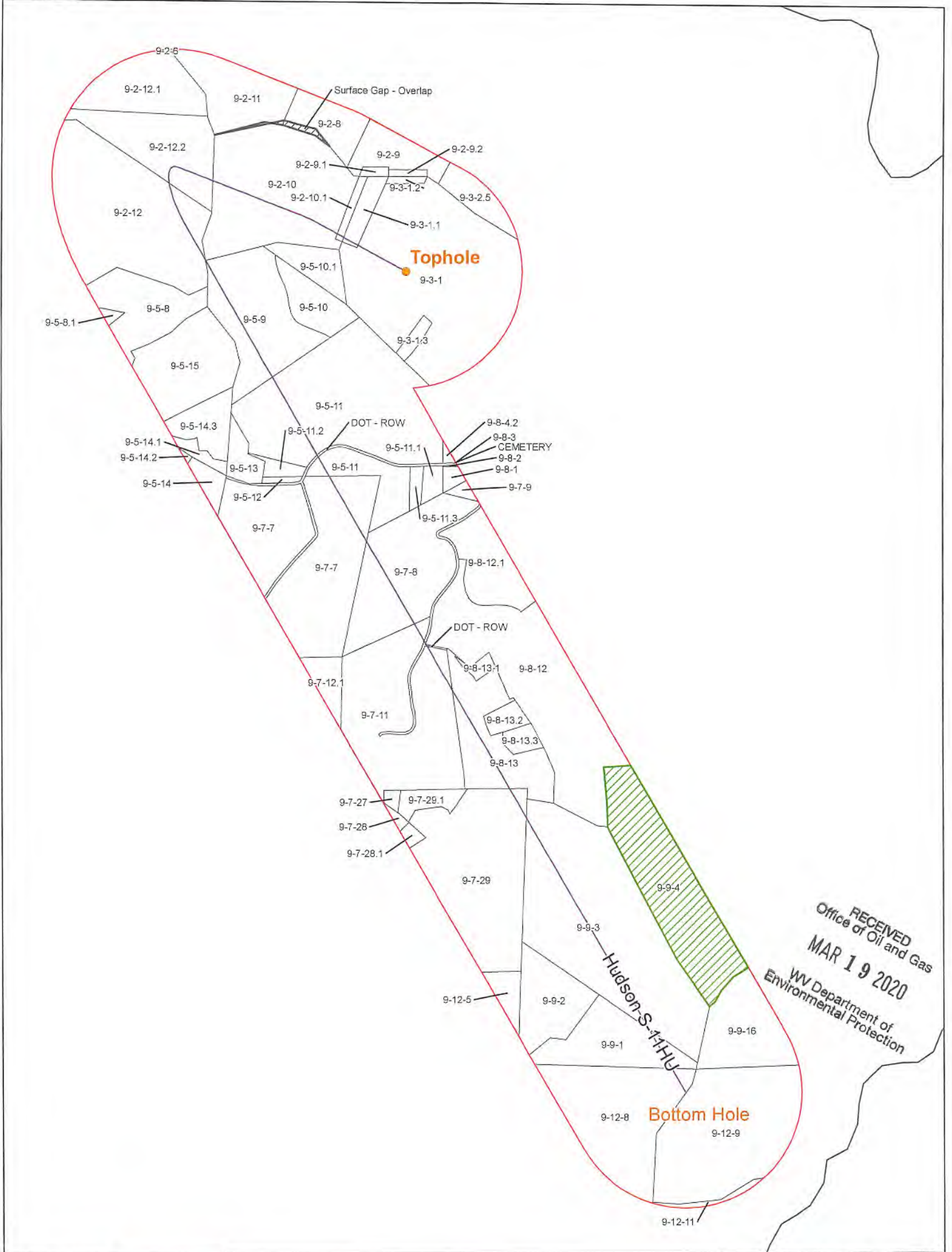
RECEIVED
Office of Oil and Gas

ERC 1706 - Hudson Pad

6/27 08 2019

PRODUCTION

Hudson S-11HU



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

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

CONFIDENTIAL



- Utica Well
- 1500 Foot Buffer
- Force Pool
- Surface Gap - Overlap

Hudson S-11HU
Operators within 1500 Feet of Well Borehole



Offset Operators within 1500'
Hudson S - 11HU

4705102296

| County | District | Parcel | Owner | Address |
|----------|----------|----------|---------------------|--|
| MARSHALL | MEADE | 9-2-6 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| MARSHALL | MEADE | 9-2-8 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| MARSHALL | MEADE | 9-2-9 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-2-9 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| MARSHALL | MEADE | 9-2-9.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-2-9.1 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| MARSHALL | MEADE | 9-2-9.2 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-2-9.2 | CNX GAS COMPANY LLC | 1000 Consol Energy Drive Canonsburg, PA 15301 |
| 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 | 9-2-11 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| MARSHALL | MEADE | 9-2-12 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-2-12.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-2-12.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-2-12.2 | 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 | 9-3-1.2 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-3-1.2 | CNX GAS COMPANY LLC | 1000 Consol Energy Drive Canonsburg, PA 15301 |
| MARSHALL | MEADE | 9-3-1.2 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| 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 | CHEVRON USA INC | 700 Cherrington Pkwy Moon, PA 15108 |
| MARSHALL | MEADE | 9-5-8 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth,TX 76107 |
| MARSHALL | MEADE | 9-5-8.1 | 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 |

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| | | | | |
|----------|-------|----------|--------------------|---|
| 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 |
| MARSHALL | MEADE | 9-5-11.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-11.2 | 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 | 9-5-12 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-13 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-14 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-14.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-14.2 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-14.3 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-5-15 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-7 | 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 | 9-7-11 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-12.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-27 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-28 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-28.1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-29 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-7-29.1 | 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 |

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| | | | | |
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| MARSHALL | MEADE | 9-8-3 | 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 | 9-8-12 | 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 | 9-8-13 | Larry L. Conkle and Donna D. Conkle | 154 Conkle Drive Glen Easton, WV 26039 |
| MARSHALL | MEADE | 9-8-13.1 | Larry L. Conkle and Donna D. Conkle | 154 Conkle Drive Glen Easton, WV 26039 |
| MARSHALL | MEADE | 9-8-13.2 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-8-13.3 | Larry L. Conkle and Donna D. Conkle | 154 Conkle Drive Glen Easton, WV 26039 |
| MARSHALL | MEADE | 9-9-1 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-9-2 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-9-3 | 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 | 9-9-16 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-12-5 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-12-8 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-12-9 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |
| MARSHALL | MEADE | 9-12-11 | TH EXPLORATION LLC | 1320 S. University Blvd. Suite 500 Fort Worth, TX 76107 |

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Environmental Protection



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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

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-11HU

Dear Sir or 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'.
Susan Rose
Administrator

encl:



April 30, 2020

4705102296

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 |

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



4705102296

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
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Sincerely,

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

Susan Rose
Administrator

encl:



April 30, 2020

4705102296

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 2020-19 |
| Address of Recipient: | 708 CHERRINGTON 15104 |

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



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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

CNX Gas Company, LLC
1000 Consol Energy Dr
Canonsburg PA 15301

9489 0090 0027 6201 4367 12

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Sincerely,

Susan Rose
Administrator

encl:



April 30, 2020

4705102296

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.

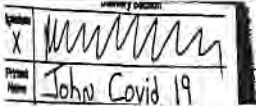

Item Details

| | |
|----------------------------|--|
| 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: |  |

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



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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

Larry L. Conkle
Donna D. Conkle
154 Conkle Dr
Glen Easton WV 26039

9489 0090 0027 6201 4367 29

RE: Intentional Deviation of New Deep Well
Tug Hill Operating, LLC – Hudson S-11HU

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Sincerely,

A handwritten signature in black ink that reads "Susan Rose". The signature is written in a cursive, flowing style.
Susan Rose
Administrator

encl:



April 30, 2020

4705102296

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 29.

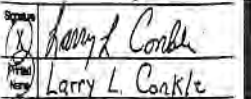

Item Details

Status: Delivered to Agent for Final Delivery
Status Date / Time: April 13, 2020, 2:09 pm
Location: GLEN EASTON, WV 26039
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 3lb, 8.6oz

Recipient Signature

| | |
|---|---|
| Signature of Recipient: (Authorized Agent) |  |
| Address of Recipient: |  |

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

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-11HU 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

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 11,618' - 11,751' thickness of 133' and anticipated pressure of approx. 9500 psi.

8) Proposed Total Vertical Depth: 11,901'

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

10) Proposed Total Measured Depth: 25,605'

11) Proposed Horizontal Leg Length: 12,851.99'

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

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Office of Oil and Gas

MAR 19 2020

WV Department of
Environmental Protection

(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

4705102296

| 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# | 2804' | 2804' | 1,977FT^3(CTS) |
| Intermediate | 9 5/8" | NEW | HPP110 | 47# | 11,070' | 11,070' | 3,606FT^3(CTS) |
| Production | 5 1/2" | NEW | P110 | 23# | 25,605' | 25,605' | 5,937FT^3(CTS) |
| Tubing | 2 7/8" | NEW | P110 | 6.5# | | 11,884' | |
| 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 | 11,624 | | |
| Liners | | | | 11,624 <i>kk</i> | 11385 <i>kk</i> | | |

PACKERS

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| | | | | |
|-------------|-----|--|--|---|
| Kind: | N/A | | | SEP 17 2020 |
| Sizes: | N/A | | | WV Department of Environmental Protection |
| Depths Set: | N/A | | | |

JM
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 (11,384'). 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 32,125,000 lb proppant and 496,676 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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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.

4705102296

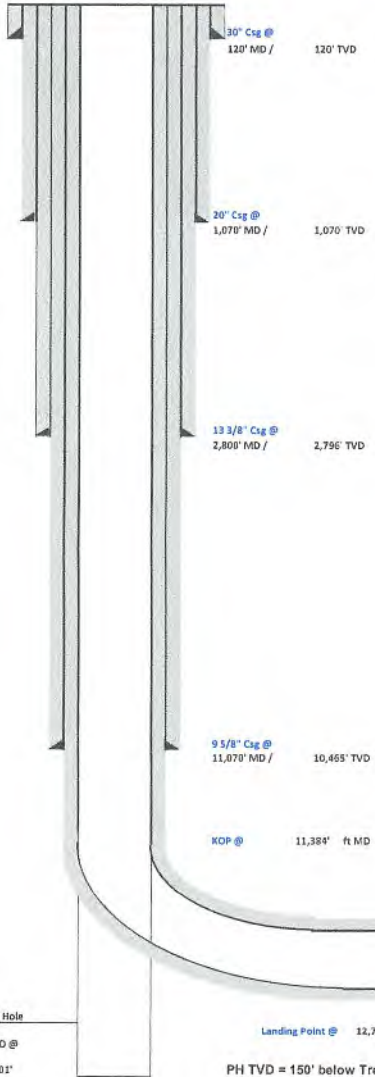


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| | | | | | |
|---------------|---------------|----------|--------|---------|----------|
| WELL NAME: | Hudson 5-11HU | STATE: | WV | COUNTY: | Marshall |
| DISTRICT: | Meade | GL Elev: | 1,344' | | |
| DF Elev: | 1,344' | | | | |
| TD: | 25,605' | | | | |
| TH Latitude: | 39.8287 | | | | |
| TH Longitude: | -80.672714 | | | | |
| BH Latitude: | 39.799742 | | | | |
| BH Longitude: | -80.660108 | | | | |



| FORMATION TOPS | |
|---------------------|-----------|
| Formation | Depth TVD |
| Deepest Fresh Water | 978' |
| Sewickley Coal | 886' |
| Pittsburgh Coal | 972' |
| Big Lime | 2,067' |
| Berea | 2,585' |
| Tully | 6,631' |
| Marcellus | 6,744' |
| Onondaga | 6,796' |
| Salina | 7,519' |
| Lockport | 8,528' |
| Utica | 11,350' |
| Point Pleasant | 11,618' |
| Landing Depth | 11,668' |
| Trenton | 11,751' |
| Pilot Hole TD | 11,901' |

| 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' | 8W | BW | Surface |
| Surface | 26 | 20 | 1,070' | 1,070' | 106.5 | J55 | Surface |
| Intermediate 1 | 17 1/2 | 13 3/8 | 2,804' | 2,800' | 54.5 | J55 | Surface |
| Intermediate 2 | 12 1/4 | 9 5/8 | 11,078' | 10,465' | 47 | HPP110 | Surface |
| Production | 8 1/2 | 5 1/2 | 25,605' | 11,893' | 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 | 2,143 | A | 15 | Air | 1 Centralizer every other jt |
| Intermediate 2 | 2,992 | A | 14.5 | Air | 1 Centralizer every other jt |
| Production | 5,371 | A | 15 | Air / SOBM | 1 every other joint in lateral; 1 per joint in curve; 1 every other jt to slc |

JM 9/17/2020

Pilot Hole PH TD @ 11,901'
 Landing Point @ 12,755' MD / 11,668' TVD
 PH TVD = 150' below Trenton Top
 Lateral TD @ 25,605' ft MD
 11,893' ft TVD



4705102296

Tug Hill Operating, LLC Casing and Cement Program

Hudson S-11HU

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" | 2,804' | CTS |
| Intermediate 2 | 9 5/8" | HPP110 | 12 1/4" | 11,070' | CTS |
| Production | 5 1/2" | HCP110 | 8 1/2" | 25,605' | 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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Well: Hudson S-11 HU (slot B)
 Site: Hudson Alt North
 Project: Marshall County, West Virginia
 Design: rev6
 Rig:

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 14464525.24 Easting 1732302.13 Latitude 39.82870000 Longitude -80.67271400

Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Subtract 8.968°

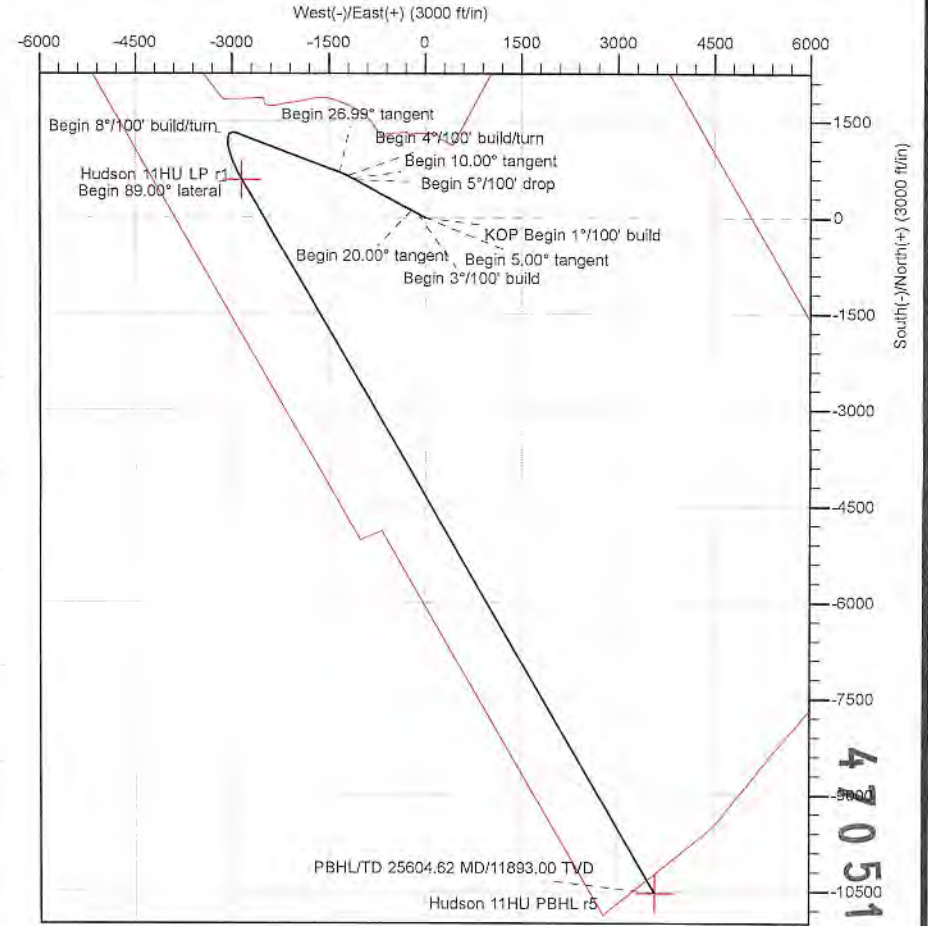
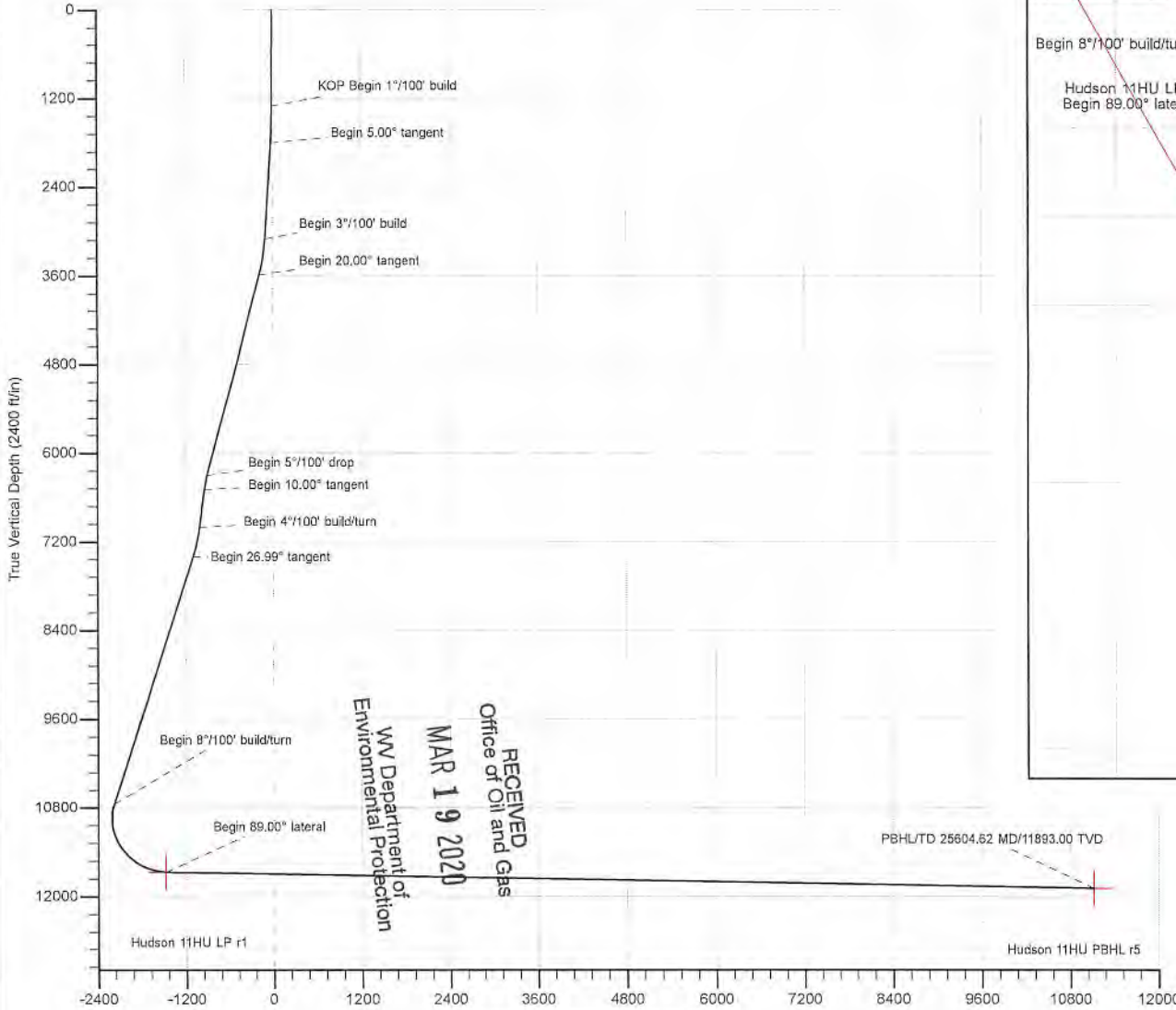


Azimuths to Grid North
 True North: -0.21°
 Magnetic North: -8.97°

Magnetic Field
 Strength: 52041.8nT
 Dip Angle: 66.88°
 Date: 9/30/2018
 Model: IGRF2015

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N-S | +E-W | Dleg | TFace | VSect | Annotation |
|-----|----------|-------|---------|----------|-----------|----------|------|----------|----------|----------------------------------|
| 1 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | |
| 2 | 1300.00 | 0.00 | 0.000 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | KOP Begin 1"/100' build |
| 3 | 1800.00 | 5.00 | 298.300 | 1799.37 | 10.34 | -19.20 | 1.00 | 298.300 | -15.96 | Begin 5.00° tangent |
| 4 | 3105.60 | 5.00 | 298.300 | 3100.00 | 64.28 | -119.39 | 0.00 | 0.000 | -99.28 | Begin 3"/100' build |
| 5 | 3605.60 | 20.00 | 298.300 | 3586.76 | 115.44 | -214.40 | 3.00 | 0.000 | -178.29 | Begin 20.00° tangent |
| 6 | 6492.98 | 20.00 | 298.300 | 6300.00 | 583.62 | -1083.91 | 0.00 | 0.000 | -901.37 | Begin 5"/100' drop |
| 7 | 6692.98 | 10.00 | 298.300 | 6492.94 | 608.13 | -1129.43 | 5.00 | 180.000 | -939.22 | Begin 10.00° tangent |
| 8 | 7207.86 | 10.00 | 298.300 | 7000.00 | 650.52 | -1208.15 | 0.00 | 0.000 | -1004.69 | Begin 4"/100' build/turn |
| 9 | 7635.71 | 26.99 | 290.941 | 7404.31 | 703.22 | -1332.45 | 4.00 | -11.391 | -1094.58 | Begin 26.99° tangent |
| 10 | 11384.02 | 26.99 | 290.941 | 10744.47 | 1311.16 | -2921.04 | 0.00 | 0.000 | -2181.37 | Begin 8"/100' build/turn |
| 11 | 12754.97 | 89.00 | 150.005 | 11668.25 | 595.65 | -2843.73 | 8.00 | -137.998 | -1479.05 | Begin 89.00° lateral |
| 12 | 25604.62 | 89.00 | 150.005 | 11893.00 | -10531.30 | 3579.20 | 0.00 | 0.000 | 1122.90 | PBHL/TD 25604.62 MD/11893.00 TVD |



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| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | DB_Aug1919_v14 | Local Co-ordinate Reference: | Well Hudson S-11 HU (slot B) |
| 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-11 HU (slot B) | 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-11 HU (slot B) | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 14,464,525.24 usft | Latitude: | 39.82870000 |
| | +E/-W | 0.00 ft | Easting: | 1,732,302.13 usft | Longitude: | -80.67271400 |
| 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 | 9/30/2018 | -8.759 | 66.877 | 52,041.82074763 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| 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 | 161.229 |

| | | | | |
|---------------------------------|----------------------|--------------------------------|-----------------------|----------------|
| Plan Survey Tool Program | Date | 3/10/2020 | | |
| Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 25,604.62 rev6 (Original Hole) | MWD MWD - Standard | |

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| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | DB_Aug1919_v14 | Local Co-ordinate Reference: | Well Hudson S-11 HU (slot B) |
| 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-11 HU (slot B) | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | rev6 | | |

| 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 | |
| 1,300.00 | 0.00 | 0.000 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 1,800.00 | 5.00 | 298.300 | 1,799.37 | 10.34 | -19.20 | 1.00 | 1.00 | 0.00 | 298.300 | |
| 3,105.60 | 5.00 | 298.300 | 3,100.00 | 64.28 | -119.39 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 3,605.60 | 20.00 | 298.300 | 3,586.76 | 115.44 | -214.40 | 3.00 | 3.00 | 0.00 | 0.000 | |
| 6,492.98 | 20.00 | 298.300 | 6,300.00 | 583.62 | -1,083.91 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 6,692.98 | 10.00 | 298.300 | 6,492.94 | 608.13 | -1,129.43 | 5.00 | -5.00 | 0.00 | 180.000 | |
| 7,207.86 | 10.00 | 298.300 | 7,000.00 | 650.52 | -1,208.15 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 7,635.71 | 26.99 | 290.941 | 7,404.31 | 703.22 | -1,332.45 | 4.00 | 3.97 | -1.72 | -11.391 | |
| 11,384.02 | 26.99 | 290.941 | 10,744.47 | 1,311.16 | -2,921.04 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 12,754.97 | 89.00 | 150.005 | 11,668.25 | 595.65 | -2,843.73 | 8.00 | 4.52 | -10.28 | -137.998 | Hudson 11HU LP r1 |
| 25,604.62 | 89.00 | 150.005 | 11,893.00 | -10,531.30 | 3,579.20 | 0.00 | 0.00 | 0.00 | 0.000 | Hudson 11HU PBHL r |

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Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
 Well: Hudson S-11 HU (slot B)
 Wellbore: Original Hole
 Design: rev6

Local Co-ordinate Reference: Well Hudson S-11 HU (slot B)
 TVD Reference: GL @ 1344.25ft
 MD Reference: GL @ 1344.25ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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Planned Survey

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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 |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|--------------|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 100.00 | 0.00 | 0.000 | 100.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 200.00 | 0.00 | 0.000 | 200.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 300.00 | 0.00 | 0.000 | 300.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 400.00 | 0.00 | 0.000 | 400.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 500.00 | 0.00 | 0.000 | 500.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 600.00 | 0.00 | 0.000 | 600.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 700.00 | 0.00 | 0.000 | 700.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 800.00 | 0.00 | 0.000 | 800.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 900.00 | 0.00 | 0.000 | 900.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 1,000.00 | 0.00 | 0.000 | 1,000.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 1,100.00 | 0.00 | 0.000 | 1,100.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 1,200.00 | 0.00 | 0.000 | 1,200.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| 1,300.00 | 0.00 | 0.000 | 1,300.00 | 0.00 | 0.00 | 14,464,525.24 | 1,732,302.13 | 39.82870000 | -80.67271400 |
| KOP Begin 1°/100' build | | | | | | | | | |
| 1,400.00 | 1.00 | 298.300 | 1,400.00 | 0.41 | -0.77 | 14,464,525.65 | 1,732,301.36 | 39.82870115 | -80.67271673 |
| 1,500.00 | 2.00 | 298.300 | 1,499.96 | 1.65 | -3.07 | 14,464,526.89 | 1,732,299.06 | 39.82870458 | -80.67272493 |
| 1,600.00 | 3.00 | 298.300 | 1,599.87 | 3.72 | -6.91 | 14,464,528.96 | 1,732,295.22 | 39.82871029 | -80.67273858 |
| 1,700.00 | 4.00 | 298.300 | 1,699.68 | 6.62 | -12.29 | 14,464,531.86 | 1,732,289.84 | 39.82871830 | -80.67275769 |
| 1,800.00 | 5.00 | 298.300 | 1,799.37 | 10.34 | -19.20 | 14,464,535.58 | 1,732,282.94 | 39.82872858 | -80.67278224 |
| Begin 5.00° tangent | | | | | | | | | |
| 1,900.00 | 5.00 | 298.300 | 1,898.99 | 14.47 | -26.87 | 14,464,539.71 | 1,732,275.26 | 39.82874001 | -80.67280952 |
| 2,000.00 | 5.00 | 298.300 | 1,998.61 | 18.60 | -34.54 | 14,464,543.84 | 1,732,267.59 | 39.82875143 | -80.67283680 |
| 2,100.00 | 5.00 | 298.300 | 2,098.23 | 22.73 | -42.22 | 14,464,547.97 | 1,732,259.91 | 39.82876285 | -80.67286408 |
| 2,200.00 | 5.00 | 298.300 | 2,197.85 | 26.86 | -49.89 | 14,464,552.10 | 1,732,252.24 | 39.82877428 | -80.67289136 |
| 2,300.00 | 5.00 | 298.300 | 2,297.47 | 31.00 | -57.57 | 14,464,556.24 | 1,732,244.57 | 39.82878570 | -80.67291864 |
| 2,400.00 | 5.00 | 298.300 | 2,397.09 | 35.13 | -65.24 | 14,464,560.37 | 1,732,236.89 | 39.82879713 | -80.67294592 |
| 2,500.01 | 5.00 | 298.300 | 2,496.71 | 39.26 | -72.91 | 14,464,564.50 | 1,732,229.22 | 39.82880855 | -80.67297320 |
| 2,600.01 | 5.00 | 298.300 | 2,596.33 | 43.39 | -80.59 | 14,464,568.63 | 1,732,221.54 | 39.82881998 | -80.67300048 |
| 2,700.01 | 5.00 | 298.300 | 2,695.95 | 47.52 | -88.26 | 14,464,572.76 | 1,732,213.87 | 39.82883140 | -80.67302776 |
| 2,800.01 | 5.00 | 298.300 | 2,795.57 | 51.66 | -95.94 | 14,464,576.90 | 1,732,206.20 | 39.82884282 | -80.67305504 |
| 2,900.01 | 5.00 | 298.300 | 2,895.19 | 55.79 | -103.61 | 14,464,581.03 | 1,732,198.52 | 39.82885425 | -80.67308231 |
| 3,000.01 | 5.00 | 298.300 | 2,994.81 | 59.92 | -111.28 | 14,464,585.16 | 1,732,190.85 | 39.82886567 | -80.67310959 |
| 3,100.01 | 5.00 | 298.300 | 3,094.42 | 64.05 | -118.96 | 14,464,589.29 | 1,732,183.17 | 39.82887710 | -80.67313687 |
| 3,105.60 | 5.00 | 298.300 | 3,100.00 | 64.28 | -119.39 | 14,464,589.52 | 1,732,182.75 | 39.82887774 | -80.67313840 |
| Begin 3°/100' build | | | | | | | | | |
| 3,200.01 | 7.83 | 298.300 | 3,193.80 | 69.28 | -128.67 | 14,464,594.52 | 1,732,173.46 | 39.82889156 | -80.67317142 |
| 3,300.01 | 10.83 | 298.300 | 3,292.47 | 76.97 | -142.95 | 14,464,602.21 | 1,732,159.18 | 39.82891282 | -80.67322216 |
| 3,400.01 | 13.83 | 298.300 | 3,390.15 | 87.10 | -161.75 | 14,464,612.33 | 1,732,140.38 | 39.82894081 | -80.67328901 |
| 3,500.01 | 16.83 | 298.300 | 3,486.58 | 99.63 | -185.03 | 14,464,624.87 | 1,732,117.10 | 39.82897546 | -80.67337176 |
| 3,600.01 | 19.83 | 298.300 | 3,581.49 | 114.54 | -212.72 | 14,464,639.78 | 1,732,089.41 | 39.82901669 | -80.67347019 |
| 3,605.60 | 20.00 | 298.300 | 3,586.76 | 115.44 | -214.40 | 14,464,640.68 | 1,732,087.73 | 39.82901919 | -80.67347616 |
| Begin 20.00° tangent | | | | | | | | | |
| 3,700.01 | 20.00 | 298.300 | 3,675.47 | 130.75 | -242.83 | 14,464,655.99 | 1,732,059.30 | 39.82906151 | -80.67357722 |
| 3,800.01 | 20.00 | 298.300 | 3,769.44 | 146.96 | -272.94 | 14,464,672.20 | 1,732,029.19 | 39.82910634 | -80.67368427 |
| 3,900.01 | 20.00 | 298.300 | 3,863.41 | 163.18 | -303.06 | 14,464,688.42 | 1,731,999.07 | 39.82915117 | -80.67379132 |
| 4,000.01 | 20.00 | 298.300 | 3,957.38 | 179.39 | -333.17 | 14,464,704.63 | 1,731,968.96 | 39.82919600 | -80.67389837 |
| 4,100.01 | 20.00 | 298.300 | 4,051.34 | 195.61 | -363.29 | 14,464,720.85 | 1,731,938.85 | 39.82924083 | -80.67400542 |
| 4,200.01 | 20.00 | 298.300 | 4,145.31 | 211.82 | -393.40 | 14,464,737.06 | 1,731,908.73 | 39.82928566 | -80.67411248 |
| 4,300.01 | 20.00 | 298.300 | 4,239.28 | 228.04 | -423.51 | 14,464,753.28 | 1,731,878.62 | 39.82933049 | -80.67421953 |
| 4,400.01 | 20.00 | 298.300 | 4,333.25 | 244.25 | -453.63 | 14,464,769.49 | 1,731,848.50 | 39.82937532 | -80.67432658 |
| 4,500.01 | 20.00 | 298.300 | 4,427.22 | 260.47 | -483.74 | 14,464,785.71 | 1,731,818.39 | 39.82942016 | -80.67443363 |
| 4,600.01 | 20.00 | 298.300 | 4,521.19 | 276.68 | -513.86 | 14,464,801.92 | 1,731,788.28 | 39.82946499 | -80.67454069 |
| 4,700.01 | 20.00 | 298.300 | 4,615.16 | 292.90 | -543.97 | 14,464,818.14 | 1,731,758.16 | 39.82950982 | -80.67464774 |



Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
 Well: Hudson S-11 HU (slot B)
 Wellbore: Original Hole
 Design: rev6

Local Co-ordinate Reference: Well Hudson S-11 HU (slot B)
 TVD Reference: GL @ 1344.25ft
 MD Reference: GL @ 1344.25ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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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 | |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|--------------|--|
| 4,800.01 | 20.00 | 298.300 | 4,709.13 | 309.11 | -574.09 | 14,464,834.35 | 1,731,728.05 | 39.82955465 | -80.67475479 | |
| 4,900.01 | 20.00 | 298.300 | 4,803.10 | 325.33 | -604.20 | 14,464,850.57 | 1,731,697.93 | 39.82959948 | -80.67486184 | |
| 5,000.01 | 20.00 | 298.300 | 4,897.07 | 341.54 | -634.31 | 14,464,866.78 | 1,731,667.82 | 39.82964431 | -80.67496890 | |
| 5,100.01 | 20.00 | 298.300 | 4,991.04 | 357.76 | -664.43 | 14,464,883.00 | 1,731,637.71 | 39.82968914 | -80.67507595 | |
| 5,200.01 | 20.00 | 298.300 | 5,085.01 | 373.97 | -694.54 | 14,464,899.21 | 1,731,607.59 | 39.82973397 | -80.67518300 | |
| 5,300.01 | 20.00 | 298.300 | 5,178.98 | 390.19 | -724.66 | 14,464,915.43 | 1,731,577.48 | 39.82977880 | -80.67529006 | |
| 5,400.01 | 20.00 | 298.300 | 5,272.95 | 406.40 | -754.77 | 14,464,931.64 | 1,731,547.36 | 39.82982363 | -80.67539711 | |
| 5,500.01 | 20.00 | 298.300 | 5,366.92 | 422.62 | -784.88 | 14,464,947.86 | 1,731,517.25 | 39.82986845 | -80.67550416 | |
| 5,600.01 | 20.00 | 298.300 | 5,460.89 | 438.83 | -815.00 | 14,464,964.07 | 1,731,487.14 | 39.82991328 | -80.67561122 | |
| 5,700.01 | 20.00 | 298.300 | 5,554.86 | 455.05 | -845.11 | 14,464,980.28 | 1,731,457.02 | 39.82995811 | -80.67571827 | |
| 5,800.01 | 20.00 | 298.300 | 5,648.83 | 471.26 | -875.23 | 14,464,996.50 | 1,731,426.91 | 39.83000294 | -80.67582533 | |
| 5,900.01 | 20.00 | 298.300 | 5,742.79 | 487.48 | -905.34 | 14,465,012.71 | 1,731,396.79 | 39.83004777 | -80.67593238 | |
| 6,000.01 | 20.00 | 298.300 | 5,836.76 | 503.69 | -935.46 | 14,465,028.93 | 1,731,366.68 | 39.83009260 | -80.67603943 | |
| 6,100.01 | 20.00 | 298.300 | 5,930.73 | 519.91 | -965.57 | 14,465,045.14 | 1,731,336.56 | 39.83013743 | -80.67614649 | |
| 6,200.01 | 20.00 | 298.300 | 6,024.70 | 536.12 | -995.68 | 14,465,061.36 | 1,731,306.45 | 39.83018226 | -80.67625354 | |
| 6,300.01 | 20.00 | 298.300 | 6,118.67 | 552.34 | -1,025.80 | 14,465,077.57 | 1,731,276.34 | 39.83022709 | -80.67636060 | |
| 6,400.01 | 20.00 | 298.300 | 6,212.64 | 568.55 | -1,055.91 | 14,465,093.79 | 1,731,246.22 | 39.83027192 | -80.67646765 | |
| 6,492.98 | 20.00 | 298.300 | 6,300.00 | 583.62 | -1,083.91 | 14,465,108.86 | 1,731,218.23 | 39.83031359 | -80.67656718 | |
| Begin 5°/100' drop | | | | | | | | | | |
| 6,500.01 | 19.65 | 298.300 | 6,306.62 | 584.76 | -1,086.01 | 14,465,109.99 | 1,731,216.13 | 39.83031672 | -80.67657465 | |
| 6,600.01 | 14.65 | 298.300 | 6,402.14 | 598.73 | -1,111.96 | 14,465,123.97 | 1,731,190.17 | 39.83035535 | -80.67666691 | |
| 6,692.98 | 10.00 | 298.300 | 6,492.94 | 608.13 | -1,129.43 | 14,465,133.37 | 1,731,172.71 | 39.83038135 | -80.67672900 | |
| Begin 10.00° tangent | | | | | | | | | | |
| 6,700.01 | 10.00 | 298.300 | 6,499.87 | 608.71 | -1,130.50 | 14,465,133.95 | 1,731,171.63 | 39.83038295 | -80.67673282 | |
| 6,800.01 | 10.00 | 298.300 | 6,598.35 | 616.95 | -1,145.79 | 14,465,142.18 | 1,731,156.34 | 39.83040571 | -80.67678717 | |
| 6,900.01 | 10.00 | 298.300 | 6,696.83 | 625.18 | -1,161.08 | 14,465,150.42 | 1,731,141.05 | 39.83042847 | -80.67684153 | |
| 7,000.01 | 10.00 | 298.300 | 6,795.31 | 633.41 | -1,176.37 | 14,465,158.65 | 1,731,125.76 | 39.83045123 | -80.67689588 | |
| 7,100.01 | 10.00 | 298.300 | 6,893.79 | 641.64 | -1,191.66 | 14,465,166.88 | 1,731,110.47 | 39.83047399 | -80.67695023 | |
| 7,200.01 | 10.00 | 298.300 | 6,992.27 | 649.87 | -1,206.95 | 14,465,175.11 | 1,731,095.19 | 39.83049675 | -80.67700459 | |
| 7,207.86 | 10.00 | 298.300 | 7,000.00 | 650.52 | -1,208.15 | 14,465,175.76 | 1,731,093.99 | 39.83049854 | -80.67700885 | |
| Begin 4°/100' build/turn | | | | | | | | | | |
| 7,300.01 | 13.63 | 295.212 | 7,090.19 | 658.94 | -1,225.02 | 14,465,184.18 | 1,731,077.11 | 39.83052183 | -80.67706886 | |
| 7,400.01 | 17.60 | 293.288 | 7,186.48 | 669.94 | -1,249.58 | 14,465,195.18 | 1,731,052.55 | 39.83055229 | -80.67715619 | |
| 7,500.02 | 21.58 | 292.055 | 7,280.67 | 682.83 | -1,280.53 | 14,465,208.07 | 1,731,021.61 | 39.83058799 | -80.67726624 | |
| 7,600.02 | 25.56 | 291.191 | 7,372.31 | 697.54 | -1,317.70 | 14,465,222.78 | 1,730,984.43 | 39.83062875 | -80.67739847 | |
| 7,635.71 | 26.99 | 290.941 | 7,404.32 | 703.22 | -1,332.45 | 14,465,228.46 | 1,730,969.69 | 39.83064450 | -80.67745092 | |
| Begin 26.99° tangent | | | | | | | | | | |
| 7,700.02 | 26.99 | 290.941 | 7,461.62 | 713.65 | -1,359.70 | 14,465,238.89 | 1,730,942.43 | 39.83067341 | -80.67754786 | |
| 7,800.02 | 26.99 | 290.941 | 7,550.73 | 729.87 | -1,402.08 | 14,465,255.11 | 1,730,900.05 | 39.83071837 | -80.67769861 | |
| 7,900.02 | 26.99 | 290.941 | 7,639.84 | 746.09 | -1,444.46 | 14,465,271.33 | 1,730,857.67 | 39.83076333 | -80.67784936 | |
| 8,000.02 | 26.99 | 290.941 | 7,728.95 | 762.31 | -1,486.85 | 14,465,287.55 | 1,730,815.29 | 39.83080829 | -80.67800012 | |
| 8,100.02 | 26.99 | 290.941 | 7,818.06 | 778.53 | -1,529.23 | 14,465,303.76 | 1,730,772.91 | 39.83085325 | -80.67815087 | |
| 8,200.02 | 26.99 | 290.941 | 7,907.17 | 794.75 | -1,571.61 | 14,465,319.98 | 1,730,730.53 | 39.83089821 | -80.67830162 | |
| 8,300.02 | 26.99 | 290.941 | 7,996.29 | 810.96 | -1,613.99 | 14,465,336.20 | 1,730,688.15 | 39.83094317 | -80.67845238 | |
| 8,400.02 | 26.99 | 290.941 | 8,085.40 | 827.18 | -1,656.37 | 14,465,352.42 | 1,730,645.76 | 39.83098813 | -80.67860313 | |
| 8,500.02 | 26.99 | 290.941 | 8,174.51 | 843.40 | -1,698.75 | 14,465,368.64 | 1,730,603.38 | 39.83103309 | -80.67875388 | |
| 8,600.02 | 26.99 | 290.941 | 8,263.62 | 859.62 | -1,741.13 | 14,465,384.86 | 1,730,561.00 | 39.83107804 | -80.67890464 | |
| 8,700.02 | 26.99 | 290.941 | 8,352.73 | 875.84 | -1,783.52 | 14,465,401.08 | 1,730,518.62 | 39.83112300 | -80.67905539 | |
| 8,800.02 | 26.99 | 290.941 | 8,441.84 | 892.06 | -1,825.90 | 14,465,417.30 | 1,730,476.24 | 39.83116796 | -80.67920614 | |
| 8,900.02 | 26.99 | 290.941 | 8,530.95 | 908.28 | -1,868.28 | 14,465,433.52 | 1,730,433.86 | 39.83121292 | -80.67935690 | |
| 9,000.02 | 26.99 | 290.941 | 8,620.06 | 924.50 | -1,910.66 | 14,465,449.73 | 1,730,391.47 | 39.83125788 | -80.67950765 | |
| 9,100.02 | 26.99 | 290.941 | 8,709.17 | 940.72 | -1,953.04 | 14,465,465.95 | 1,730,349.09 | 39.83130284 | -80.67965841 | |
| 9,200.02 | 26.99 | 290.941 | 8,798.29 | 956.94 | -1,995.42 | 14,465,482.17 | 1,730,306.71 | 39.83134779 | -80.67980916 | |
| 9,300.02 | 26.99 | 290.941 | 8,887.40 | 973.15 | -2,037.81 | 14,465,498.39 | 1,730,264.33 | 39.83139275 | -80.67995992 | |

Database: DB_Aug1919_v14
Company: Tug Hill Operating LLC
Project: Marshall County, West Virginia
Site: Hudson Alt North
Well: Hudson S-11 HU (slot B)
Wellbore: Original Hole
Design: rev6

Local Co-ordinate Reference: Well Hudson S-11 HU (slot B)
TVD Reference: GL @ 1344.25ft
MD Reference: GL @ 1344.25ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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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 | |
| 9,400.02 | 26.99 | 290.941 | 8,976.51 | 989.37 | -2,080.19 | 14,465,514.61 | 1,730,221.95 | 39.83143771 | -80.68011067 | |
| 9,500.02 | 26.99 | 290.941 | 9,065.62 | 1,005.59 | -2,122.57 | 14,465,530.83 | 1,730,179.57 | 39.83148267 | -80.68026143 | |
| 9,600.02 | 26.99 | 290.941 | 9,154.73 | 1,021.81 | -2,164.95 | 14,465,547.05 | 1,730,137.19 | 39.83152762 | -80.68041218 | |
| 9,700.02 | 26.99 | 290.941 | 9,243.84 | 1,038.03 | -2,207.33 | 14,465,563.27 | 1,730,094.80 | 39.83157258 | -80.68056294 | |
| 9,800.02 | 26.99 | 290.941 | 9,332.95 | 1,054.25 | -2,249.71 | 14,465,579.49 | 1,730,052.42 | 39.83161754 | -80.68071370 | |
| 9,900.02 | 26.99 | 290.941 | 9,422.06 | 1,070.47 | -2,292.10 | 14,465,595.71 | 1,730,010.04 | 39.83166249 | -80.68086445 | |
| 10,000.02 | 26.99 | 290.941 | 9,511.17 | 1,086.69 | -2,334.48 | 14,465,611.92 | 1,729,967.66 | 39.83170745 | -80.68101521 | |
| 10,100.02 | 26.99 | 290.941 | 9,600.29 | 1,102.91 | -2,376.86 | 14,465,628.14 | 1,729,925.28 | 39.83175240 | -80.68116597 | |
| 10,200.02 | 26.99 | 290.941 | 9,689.40 | 1,119.12 | -2,419.24 | 14,465,644.36 | 1,729,882.90 | 39.83179736 | -80.68131672 | |
| 10,300.02 | 26.99 | 290.941 | 9,778.51 | 1,135.34 | -2,461.62 | 14,465,660.58 | 1,729,840.52 | 39.83184231 | -80.68146748 | |
| 10,400.02 | 26.99 | 290.941 | 9,867.62 | 1,151.56 | -2,504.00 | 14,465,676.80 | 1,729,798.13 | 39.83188727 | -80.68161824 | |
| 10,500.02 | 26.99 | 290.941 | 9,956.73 | 1,167.78 | -2,546.38 | 14,465,693.02 | 1,729,755.75 | 39.83193223 | -80.68176900 | |
| 10,600.02 | 26.99 | 290.941 | 10,045.84 | 1,184.00 | -2,588.77 | 14,465,709.24 | 1,729,713.37 | 39.83197718 | -80.68191975 | |
| 10,700.02 | 26.99 | 290.941 | 10,134.95 | 1,200.22 | -2,631.15 | 14,465,725.46 | 1,729,670.99 | 39.83202214 | -80.68207051 | |
| 10,800.02 | 26.99 | 290.941 | 10,224.06 | 1,216.44 | -2,673.53 | 14,465,741.68 | 1,729,628.61 | 39.83206709 | -80.68222127 | |
| 10,900.02 | 26.99 | 290.941 | 10,313.17 | 1,232.66 | -2,715.91 | 14,465,757.89 | 1,729,586.23 | 39.83211204 | -80.68237203 | |
| 11,000.02 | 26.99 | 290.941 | 10,402.29 | 1,248.88 | -2,758.29 | 14,465,774.11 | 1,729,543.84 | 39.83215700 | -80.68252279 | |
| 11,100.02 | 26.99 | 290.941 | 10,491.40 | 1,265.10 | -2,800.67 | 14,465,790.33 | 1,729,501.46 | 39.83220195 | -80.68267354 | |
| 11,200.02 | 26.99 | 290.941 | 10,580.51 | 1,281.31 | -2,843.06 | 14,465,806.55 | 1,729,459.08 | 39.83224691 | -80.68282430 | |
| 11,300.02 | 26.99 | 290.941 | 10,669.62 | 1,297.53 | -2,885.44 | 14,465,822.77 | 1,729,416.70 | 39.83229186 | -80.68297506 | |
| 11,384.02 | 26.99 | 290.941 | 10,744.47 | 1,311.16 | -2,921.04 | 14,465,838.99 | 1,729,381.10 | 39.83232962 | -80.68310170 | |
| Begin 8"/100' build/turn | | | | | | | | | | |
| 11,400.02 | 26.05 | 288.993 | 10,758.79 | 1,313.60 | -2,927.75 | 14,465,838.84 | 1,729,374.39 | 39.83233639 | -80.68312558 | |
| 11,500.02 | 20.96 | 273.388 | 10,850.55 | 1,321.81 | -2,966.43 | 14,465,847.05 | 1,729,335.71 | 39.83235932 | -80.68326325 | |
| 11,600.02 | 18.00 | 250.913 | 10,944.95 | 1,317.81 | -2,998.94 | 14,465,843.04 | 1,729,303.20 | 39.83234864 | -80.68337910 | |
| 11,700.02 | 18.24 | 224.999 | 11,040.15 | 1,301.66 | -3,024.64 | 14,465,826.90 | 1,729,277.49 | 39.83230455 | -80.68347087 | |
| 11,800.02 | 21.56 | 203.439 | 11,134.29 | 1,273.69 | -3,043.04 | 14,465,798.93 | 1,729,259.09 | 39.83222791 | -80.68353676 | |
| 11,900.02 | 26.86 | 188.692 | 11,225.54 | 1,234.44 | -3,053.78 | 14,465,759.67 | 1,729,248.35 | 39.83212022 | -80.68357551 | |
| 12,000.02 | 33.18 | 178.851 | 11,312.14 | 1,184.67 | -3,056.65 | 14,465,709.90 | 1,729,245.49 | 39.83198356 | -80.68358635 | |
| 12,100.02 | 40.06 | 171.960 | 11,392.38 | 1,125.34 | -3,051.59 | 14,465,650.58 | 1,729,250.55 | 39.83182061 | -80.68356908 | |
| 12,200.02 | 47.24 | 166.828 | 11,464.72 | 1,057.63 | -3,038.70 | 14,465,582.87 | 1,729,263.43 | 39.83163452 | -80.68352402 | |
| 12,300.02 | 54.60 | 162.778 | 11,527.73 | 982.84 | -3,018.24 | 14,465,508.07 | 1,729,283.90 | 39.83142892 | -80.68345207 | |
| 12,400.03 | 62.07 | 159.414 | 11,580.21 | 902.42 | -2,990.59 | 14,465,427.66 | 1,729,311.55 | 39.83120782 | -80.68335461 | |
| 12,500.03 | 69.61 | 156.489 | 11,621.11 | 817.96 | -2,956.31 | 14,465,343.19 | 1,729,345.83 | 39.83097552 | -80.68323355 | |
| 12,600.03 | 77.20 | 153.839 | 11,649.66 | 731.08 | -2,916.05 | 14,465,256.31 | 1,729,386.09 | 39.83073654 | -80.68309124 | |
| 12,700.03 | 84.81 | 151.345 | 11,665.28 | 643.48 | -2,870.60 | 14,465,168.71 | 1,729,431.54 | 39.83049553 | -80.68293045 | |
| 12,754.97 | 89.00 | 150.005 | 11,668.25 | 595.65 | -2,843.73 | 14,465,120.89 | 1,729,458.41 | 39.83036394 | -80.68283536 | |
| Begin 89.00° lateral | | | | | | | | | | |
| 12,800.03 | 89.00 | 150.005 | 11,669.04 | 556.64 | -2,821.21 | 14,465,081.88 | 1,729,480.93 | 39.83025657 | -80.68275564 | |
| 12,900.03 | 89.00 | 150.005 | 11,670.79 | 470.05 | -2,771.22 | 14,464,995.28 | 1,729,530.91 | 39.83001828 | -80.68257869 | |
| 13,000.03 | 89.00 | 150.005 | 11,672.54 | 383.45 | -2,721.24 | 14,464,908.69 | 1,729,580.90 | 39.82977999 | -80.68240174 | |
| 13,100.03 | 89.00 | 150.005 | 11,674.29 | 296.86 | -2,671.25 | 14,464,822.10 | 1,729,630.88 | 39.82954169 | -80.68222479 | |
| 13,200.03 | 89.00 | 150.005 | 11,676.03 | 210.27 | -2,621.27 | 14,464,735.50 | 1,729,680.87 | 39.82930340 | -80.68204785 | |
| 13,300.03 | 89.00 | 150.005 | 11,677.78 | 123.67 | -2,571.28 | 14,464,648.91 | 1,729,730.86 | 39.82906511 | -80.68187091 | |
| 13,400.03 | 89.00 | 150.005 | 11,679.53 | 37.08 | -2,521.30 | 14,464,562.32 | 1,729,780.84 | 39.82882681 | -80.68169396 | |
| 13,500.03 | 89.00 | 150.005 | 11,681.28 | -49.52 | -2,471.31 | 14,464,475.72 | 1,729,830.83 | 39.82858852 | -80.68151702 | |
| 13,600.03 | 89.00 | 150.005 | 11,683.03 | -136.11 | -2,421.33 | 14,464,389.13 | 1,729,880.81 | 39.82835022 | -80.68134008 | |
| 13,700.03 | 89.00 | 150.005 | 11,684.78 | -222.70 | -2,371.34 | 14,464,302.54 | 1,729,930.80 | 39.82811193 | -80.68116314 | |
| 13,800.03 | 89.00 | 150.005 | 11,686.53 | -309.30 | -2,321.36 | 14,464,215.94 | 1,729,980.78 | 39.82787363 | -80.68098620 | |
| 13,900.03 | 89.00 | 150.005 | 11,688.28 | -395.89 | -2,271.37 | 14,464,129.35 | 1,730,030.77 | 39.82763534 | -80.68080927 | |
| 14,000.03 | 89.00 | 150.005 | 11,690.03 | -482.48 | -2,221.38 | 14,464,042.76 | 1,730,080.75 | 39.82739704 | -80.68063233 | |
| 14,100.03 | 89.00 | 150.005 | 11,691.78 | -569.08 | -2,171.40 | 14,463,956.16 | 1,730,130.74 | 39.82715875 | -80.68045540 | |
| 14,200.03 | 89.00 | 150.005 | 11,693.53 | -655.67 | -2,121.41 | 14,463,869.57 | 1,730,180.72 | 39.82692045 | -80.68027846 | |
| 14,300.03 | 89.00 | 150.005 | 11,695.27 | -742.26 | -2,071.43 | 14,463,782.98 | 1,730,230.71 | 39.82668216 | -80.68010153 | |



| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | DB_Aug1919_v14 | Local Co-ordinate Reference: | Well Hudson S-11 HU (slot B) |
| 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-11 HU (slot B) | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | rev6 | | |

| Planned Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|--------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 14,400.03 | 89.00 | 150.005 | 11,697.02 | -828.86 | -2,021.44 | 14,463,696.38 | 1,730,280.69 | 39.82644386 | -80.67992460 | |
| 14,500.03 | 89.00 | 150.005 | 11,698.77 | -915.45 | -1,971.46 | 14,463,609.79 | 1,730,330.68 | 39.82620556 | -80.67974767 | |
| 14,600.03 | 89.00 | 150.005 | 11,700.52 | -1,002.04 | -1,921.47 | 14,463,523.20 | 1,730,380.66 | 39.82596726 | -80.67957074 | |
| 14,700.03 | 89.00 | 150.005 | 11,702.27 | -1,088.64 | -1,871.49 | 14,463,436.60 | 1,730,430.65 | 39.82572897 | -80.67939382 | |
| 14,800.03 | 89.00 | 150.005 | 11,704.02 | -1,175.23 | -1,821.50 | 14,463,350.01 | 1,730,480.63 | 39.82549067 | -80.67921689 | |
| 14,900.03 | 89.00 | 150.005 | 11,705.77 | -1,261.83 | -1,771.52 | 14,463,263.42 | 1,730,530.62 | 39.82525237 | -80.67903997 | |
| 15,000.03 | 89.00 | 150.005 | 11,707.52 | -1,348.42 | -1,721.53 | 14,463,176.82 | 1,730,580.60 | 39.82501407 | -80.67886304 | |
| 15,100.03 | 89.00 | 150.005 | 11,709.27 | -1,435.01 | -1,671.55 | 14,463,090.23 | 1,730,630.59 | 39.82477577 | -80.67868612 | |
| 15,200.03 | 89.00 | 150.005 | 11,711.02 | -1,521.61 | -1,621.56 | 14,463,003.64 | 1,730,680.57 | 39.82453748 | -80.67850920 | |
| 15,300.03 | 89.00 | 150.005 | 11,712.77 | -1,608.20 | -1,571.58 | 14,462,917.04 | 1,730,730.56 | 39.82429918 | -80.67833228 | |
| 15,400.03 | 89.00 | 150.005 | 11,714.51 | -1,694.79 | -1,521.59 | 14,462,830.45 | 1,730,780.55 | 39.82406088 | -80.67815536 | |
| 15,500.03 | 89.00 | 150.005 | 11,716.26 | -1,781.39 | -1,471.60 | 14,462,743.86 | 1,730,830.53 | 39.82382258 | -80.67797845 | |
| 15,600.03 | 89.00 | 150.005 | 11,718.01 | -1,867.98 | -1,421.62 | 14,462,657.26 | 1,730,880.52 | 39.82358428 | -80.67780153 | |
| 15,700.03 | 89.00 | 150.005 | 11,719.76 | -1,954.57 | -1,371.63 | 14,462,570.67 | 1,730,930.50 | 39.82334598 | -80.67762461 | |
| 15,800.03 | 89.00 | 150.005 | 11,721.51 | -2,041.17 | -1,321.65 | 14,462,484.08 | 1,730,980.49 | 39.82310768 | -80.67744770 | |
| 15,900.03 | 89.00 | 150.005 | 11,723.26 | -2,127.76 | -1,271.66 | 14,462,397.48 | 1,731,030.47 | 39.82286938 | -80.67727079 | |
| 16,000.03 | 89.00 | 150.005 | 11,725.01 | -2,214.35 | -1,221.68 | 14,462,310.89 | 1,731,080.46 | 39.82263107 | -80.67709388 | |
| 16,100.03 | 89.00 | 150.005 | 11,726.76 | -2,300.95 | -1,171.69 | 14,462,224.30 | 1,731,130.44 | 39.82239277 | -80.67691697 | |
| 16,200.03 | 89.00 | 150.005 | 11,728.51 | -2,387.54 | -1,121.71 | 14,462,137.70 | 1,731,180.43 | 39.82215447 | -80.67674006 | |
| 16,300.03 | 89.00 | 150.005 | 11,730.26 | -2,474.14 | -1,071.72 | 14,462,051.11 | 1,731,230.41 | 39.82191617 | -80.67656315 | |
| 16,400.03 | 89.00 | 150.005 | 11,732.01 | -2,560.73 | -1,021.74 | 14,461,964.52 | 1,731,280.40 | 39.82167787 | -80.67638625 | |
| 16,500.03 | 89.00 | 150.005 | 11,733.75 | -2,647.32 | -971.75 | 14,461,877.92 | 1,731,330.38 | 39.82143957 | -80.67620934 | |
| 16,600.03 | 89.00 | 150.005 | 11,735.50 | -2,733.92 | -921.77 | 14,461,791.33 | 1,731,380.37 | 39.82120126 | -80.67603244 | |
| 16,700.03 | 89.00 | 150.005 | 11,737.25 | -2,820.51 | -871.78 | 14,461,704.74 | 1,731,430.35 | 39.82096296 | -80.67585553 | |
| 16,800.03 | 89.00 | 150.005 | 11,739.00 | -2,907.10 | -821.80 | 14,461,618.14 | 1,731,480.34 | 39.82072466 | -80.67567863 | |
| 16,900.03 | 89.00 | 150.005 | 11,740.75 | -2,993.70 | -771.81 | 14,461,531.55 | 1,731,530.32 | 39.82048635 | -80.67550173 | |
| 17,000.03 | 89.00 | 150.005 | 11,742.50 | -3,080.29 | -721.82 | 14,461,444.95 | 1,731,580.31 | 39.82024805 | -80.67532483 | |
| 17,100.03 | 89.00 | 150.005 | 11,744.25 | -3,166.88 | -671.84 | 14,461,358.36 | 1,731,630.29 | 39.82000974 | -80.67514794 | |
| 17,200.03 | 89.00 | 150.005 | 11,746.00 | -3,253.48 | -621.85 | 14,461,271.77 | 1,731,680.28 | 39.81977144 | -80.67497104 | |
| 17,300.03 | 89.00 | 150.005 | 11,747.75 | -3,340.07 | -571.87 | 14,461,185.17 | 1,731,730.26 | 39.81953314 | -80.67479414 | |
| 17,400.04 | 89.00 | 150.005 | 11,749.50 | -3,426.66 | -521.88 | 14,461,098.58 | 1,731,780.25 | 39.81929483 | -80.67461725 | |
| 17,500.04 | 89.00 | 150.005 | 11,751.24 | -3,513.26 | -471.90 | 14,461,011.99 | 1,731,830.24 | 39.81905653 | -80.67444036 | |
| 17,600.04 | 89.00 | 150.005 | 11,752.99 | -3,599.85 | -421.91 | 14,460,925.39 | 1,731,880.22 | 39.81881822 | -80.67426347 | |
| 17,700.04 | 89.00 | 150.005 | 11,754.74 | -3,686.45 | -371.93 | 14,460,838.80 | 1,731,930.21 | 39.81857991 | -80.67408657 | |
| 17,800.04 | 89.00 | 150.005 | 11,756.49 | -3,773.04 | -321.94 | 14,460,752.21 | 1,731,980.19 | 39.81834161 | -80.67390969 | |
| 17,900.04 | 89.00 | 150.005 | 11,758.24 | -3,859.63 | -271.96 | 14,460,665.61 | 1,732,030.18 | 39.81810330 | -80.67373280 | |
| 18,000.04 | 89.00 | 150.005 | 11,759.99 | -3,946.23 | -221.97 | 14,460,579.02 | 1,732,080.16 | 39.81786500 | -80.67355591 | |
| 18,100.04 | 89.00 | 150.005 | 11,761.74 | -4,032.82 | -171.99 | 14,460,492.43 | 1,732,130.15 | 39.81762669 | -80.67337903 | |
| 18,200.04 | 89.00 | 150.005 | 11,763.49 | -4,119.41 | -122.00 | 14,460,405.83 | 1,732,180.13 | 39.81738838 | -80.67320214 | |
| 18,300.04 | 89.00 | 150.005 | 11,765.24 | -4,206.01 | -72.02 | 14,460,319.24 | 1,732,230.12 | 39.81715007 | -80.67302526 | |
| 18,400.04 | 89.00 | 150.005 | 11,766.99 | -4,292.60 | -22.03 | 14,460,232.65 | 1,732,280.10 | 39.81691177 | -80.67284838 | |
| 18,500.04 | 89.00 | 150.005 | 11,768.74 | -4,379.19 | 27.96 | 14,460,146.05 | 1,732,330.09 | 39.81667346 | -80.67267150 | |
| 18,600.04 | 89.00 | 150.005 | 11,770.48 | -4,465.79 | 77.94 | 14,460,059.46 | 1,732,380.07 | 39.81643515 | -80.67249462 | |
| 18,700.04 | 89.00 | 150.005 | 11,772.23 | -4,552.38 | 127.93 | 14,459,972.87 | 1,732,430.06 | 39.81619684 | -80.67231774 | |
| 18,800.04 | 89.00 | 150.005 | 11,773.98 | -4,638.97 | 177.91 | 14,459,886.27 | 1,732,480.04 | 39.81595853 | -80.67214086 | |
| 18,900.04 | 89.00 | 150.005 | 11,775.73 | -4,725.57 | 227.90 | 14,459,799.68 | 1,732,530.03 | 39.81572022 | -80.67196399 | |
| 19,000.04 | 89.00 | 150.005 | 11,777.48 | -4,812.16 | 277.88 | 14,459,713.09 | 1,732,580.01 | 39.81548192 | -80.67178711 | |
| 19,100.04 | 89.00 | 150.005 | 11,779.23 | -4,898.76 | 327.87 | 14,459,626.49 | 1,732,630.00 | 39.81524361 | -80.67161024 | |
| 19,200.04 | 89.00 | 150.005 | 11,780.98 | -4,985.35 | 377.85 | 14,459,539.90 | 1,732,679.98 | 39.81500530 | -80.67143337 | |
| 19,300.04 | 89.00 | 150.005 | 11,782.73 | -5,071.94 | 427.84 | 14,459,453.31 | 1,732,729.97 | 39.81476699 | -80.67125649 | |
| 19,400.04 | 89.00 | 150.005 | 11,784.48 | -5,158.54 | 477.82 | 14,459,366.71 | 1,732,779.95 | 39.81452868 | -80.67107962 | |
| 19,500.04 | 89.00 | 150.005 | 11,786.23 | -5,245.13 | 527.81 | 14,459,280.12 | 1,732,829.94 | 39.81429036 | -80.67090276 | |
| 19,600.04 | 89.00 | 150.005 | 11,787.98 | -5,331.72 | 577.79 | 14,459,193.53 | 1,732,879.93 | 39.81405205 | -80.67072589 | |
| 19,700.04 | 89.00 | 150.005 | 11,789.72 | -5,418.32 | 627.78 | 14,459,106.93 | 1,732,929.91 | 39.81381374 | -80.67054902 | |
| 19,800.04 | 89.00 | 150.005 | 11,791.47 | -5,504.91 | 677.76 | 14,459,020.34 | 1,732,979.90 | 39.81357543 | -80.67037216 | |



Database: DB_Aug1919_v14
 Company: Tug Hill Operating LLC
 Project: Marshall County, West Virginia
 Site: Hudson Alt North
 Well: Hudson S-11 HU (slot B)
 Wellbore: Original Hole
 Design: rev6

Local Co-ordinate Reference: Well Hudson S-11 HU (slot B)
 TVD Reference: GL @ 1344.25ft
 MD Reference: GL @ 1344.25ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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 MAR 19 2020

WV Department of
 Environmental Protection

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|--------------|
| 19,900.04 | 89.00 | 150.005 | 11,793.22 | -5,591.50 | 727.75 | 14,458,933.75 | 1,733,029.88 | 39.81333712 | -80.67019529 |
| 20,000.04 | 89.00 | 150.005 | 11,794.97 | -5,678.10 | 777.74 | 14,458,847.15 | 1,733,079.87 | 39.81309881 | -80.67001843 |
| 20,100.04 | 89.00 | 150.005 | 11,796.72 | -5,764.69 | 827.72 | 14,458,760.56 | 1,733,129.85 | 39.81286049 | -80.66984157 |
| 20,200.04 | 89.00 | 150.005 | 11,798.47 | -5,851.29 | 877.71 | 14,458,673.97 | 1,733,179.84 | 39.81262218 | -80.66966471 |
| 20,300.04 | 89.00 | 150.005 | 11,800.22 | -5,937.88 | 927.69 | 14,458,587.37 | 1,733,229.82 | 39.81238387 | -80.66948785 |
| 20,400.04 | 89.00 | 150.005 | 11,801.97 | -6,024.47 | 977.68 | 14,458,500.78 | 1,733,279.81 | 39.81214556 | -80.66931099 |
| 20,500.04 | 89.00 | 150.005 | 11,803.72 | -6,111.07 | 1,027.66 | 14,458,414.19 | 1,733,329.79 | 39.81190724 | -80.66913414 |
| 20,600.04 | 89.00 | 150.005 | 11,805.47 | -6,197.66 | 1,077.65 | 14,458,327.59 | 1,733,379.78 | 39.81166893 | -80.66895728 |
| 20,700.04 | 89.00 | 150.005 | 11,807.22 | -6,284.25 | 1,127.63 | 14,458,241.00 | 1,733,429.76 | 39.81143062 | -80.66878043 |
| 20,800.04 | 89.00 | 150.005 | 11,808.96 | -6,370.85 | 1,177.62 | 14,458,154.41 | 1,733,479.75 | 39.81119230 | -80.66860358 |
| 20,900.04 | 89.00 | 150.005 | 11,810.71 | -6,457.44 | 1,227.60 | 14,458,067.81 | 1,733,529.73 | 39.81095399 | -80.66842673 |
| 21,000.04 | 89.00 | 150.005 | 11,812.46 | -6,544.03 | 1,277.59 | 14,457,981.22 | 1,733,579.72 | 39.81071567 | -80.66824987 |
| 21,100.04 | 89.00 | 150.005 | 11,814.21 | -6,630.63 | 1,327.57 | 14,457,894.63 | 1,733,629.70 | 39.81047736 | -80.66807303 |
| 21,200.04 | 89.00 | 150.005 | 11,815.96 | -6,717.22 | 1,377.56 | 14,457,808.03 | 1,733,679.69 | 39.81023904 | -80.66789618 |
| 21,300.04 | 89.00 | 150.005 | 11,817.71 | -6,803.81 | 1,427.54 | 14,457,721.44 | 1,733,729.67 | 39.81000073 | -80.66771933 |
| 21,400.04 | 89.00 | 150.005 | 11,819.46 | -6,890.41 | 1,477.53 | 14,457,634.85 | 1,733,779.66 | 39.80976241 | -80.66754249 |
| 21,500.04 | 89.00 | 150.005 | 11,821.21 | -6,977.00 | 1,527.52 | 14,457,548.25 | 1,733,829.64 | 39.80952409 | -80.66736564 |
| 21,600.04 | 89.00 | 150.005 | 11,822.96 | -7,063.60 | 1,577.50 | 14,457,461.66 | 1,733,879.63 | 39.80928578 | -80.66718880 |
| 21,700.04 | 89.00 | 150.005 | 11,824.71 | -7,150.19 | 1,627.49 | 14,457,375.06 | 1,733,929.61 | 39.80904746 | -80.66701196 |
| 21,800.04 | 89.00 | 150.005 | 11,826.46 | -7,236.78 | 1,677.47 | 14,457,288.47 | 1,733,979.60 | 39.80880914 | -80.66683512 |
| 21,900.04 | 89.00 | 150.005 | 11,828.20 | -7,323.38 | 1,727.46 | 14,457,201.88 | 1,734,029.59 | 39.80857083 | -80.66665828 |
| 22,000.04 | 89.00 | 150.005 | 11,829.95 | -7,409.97 | 1,777.44 | 14,457,115.28 | 1,734,079.57 | 39.80833251 | -80.66648144 |
| 22,100.04 | 89.00 | 150.005 | 11,831.70 | -7,496.56 | 1,827.43 | 14,457,028.69 | 1,734,129.56 | 39.80809419 | -80.66630460 |
| 22,200.04 | 89.00 | 150.005 | 11,833.45 | -7,583.16 | 1,877.41 | 14,456,942.10 | 1,734,179.54 | 39.80785587 | -80.66612777 |
| 22,300.05 | 89.00 | 150.005 | 11,835.20 | -7,669.75 | 1,927.40 | 14,456,855.50 | 1,734,229.53 | 39.80761755 | -80.66595093 |
| 22,400.05 | 89.00 | 150.005 | 11,836.95 | -7,756.34 | 1,977.38 | 14,456,768.91 | 1,734,279.51 | 39.80737924 | -80.66577410 |
| 22,500.05 | 89.00 | 150.005 | 11,838.70 | -7,842.94 | 2,027.37 | 14,456,682.32 | 1,734,329.50 | 39.80714092 | -80.66559727 |
| 22,600.05 | 89.00 | 150.005 | 11,840.45 | -7,929.53 | 2,077.35 | 14,456,595.72 | 1,734,379.48 | 39.80690260 | -80.66542044 |
| 22,700.05 | 89.00 | 150.005 | 11,842.20 | -8,016.12 | 2,127.34 | 14,456,509.13 | 1,734,429.47 | 39.80666428 | -80.66524361 |
| 22,800.05 | 89.00 | 150.005 | 11,843.95 | -8,102.72 | 2,177.32 | 14,456,422.54 | 1,734,479.45 | 39.80642596 | -80.66506678 |
| 22,900.05 | 89.00 | 150.005 | 11,845.70 | -8,189.31 | 2,227.31 | 14,456,335.94 | 1,734,529.44 | 39.80618764 | -80.66488995 |
| 23,000.05 | 89.00 | 150.005 | 11,847.44 | -8,275.91 | 2,277.30 | 14,456,249.35 | 1,734,579.42 | 39.80594932 | -80.66471313 |
| 23,100.05 | 89.00 | 150.005 | 11,849.19 | -8,362.50 | 2,327.28 | 14,456,162.76 | 1,734,629.41 | 39.80571100 | -80.66453630 |
| 23,200.05 | 89.00 | 150.005 | 11,850.94 | -8,449.09 | 2,377.27 | 14,456,076.16 | 1,734,679.39 | 39.80547268 | -80.66435948 |
| 23,300.05 | 89.00 | 150.005 | 11,852.69 | -8,535.69 | 2,427.25 | 14,455,989.57 | 1,734,729.38 | 39.80523436 | -80.66418266 |
| 23,400.05 | 89.00 | 150.005 | 11,854.44 | -8,622.28 | 2,477.24 | 14,455,902.98 | 1,734,779.36 | 39.80499603 | -80.66400584 |
| 23,500.05 | 89.00 | 150.005 | 11,856.19 | -8,708.87 | 2,527.22 | 14,455,816.38 | 1,734,829.35 | 39.80475771 | -80.66382902 |
| 23,600.05 | 89.00 | 150.005 | 11,857.94 | -8,795.47 | 2,577.21 | 14,455,729.79 | 1,734,879.33 | 39.80451939 | -80.66365220 |
| 23,700.05 | 89.00 | 150.005 | 11,859.69 | -8,882.06 | 2,627.19 | 14,455,643.20 | 1,734,929.32 | 39.80428107 | -80.66347538 |
| 23,800.05 | 89.00 | 150.005 | 11,861.44 | -8,968.65 | 2,677.18 | 14,455,556.60 | 1,734,979.30 | 39.80404275 | -80.66329856 |
| 23,900.05 | 89.00 | 150.005 | 11,863.19 | -9,055.25 | 2,727.16 | 14,455,470.01 | 1,735,029.29 | 39.80380442 | -80.66312175 |
| 24,000.05 | 89.00 | 150.005 | 11,864.94 | -9,141.84 | 2,777.15 | 14,455,383.42 | 1,735,079.28 | 39.80356610 | -80.66294493 |
| 24,100.05 | 89.00 | 150.005 | 11,866.68 | -9,228.43 | 2,827.13 | 14,455,296.82 | 1,735,129.26 | 39.80332778 | -80.66276812 |
| 24,200.05 | 89.00 | 150.005 | 11,868.43 | -9,315.03 | 2,877.12 | 14,455,210.23 | 1,735,179.25 | 39.80308945 | -80.66259131 |
| 24,300.05 | 89.00 | 150.005 | 11,870.18 | -9,401.62 | 2,927.10 | 14,455,123.64 | 1,735,229.23 | 39.80285113 | -80.66241450 |
| 24,400.05 | 89.00 | 150.005 | 11,871.93 | -9,488.22 | 2,977.09 | 14,455,037.04 | 1,735,279.22 | 39.80261281 | -80.66223769 |
| 24,500.05 | 89.00 | 150.005 | 11,873.68 | -9,574.81 | 3,027.08 | 14,454,950.45 | 1,735,329.20 | 39.80237448 | -80.66206088 |
| 24,600.05 | 89.00 | 150.005 | 11,875.43 | -9,661.40 | 3,077.06 | 14,454,863.86 | 1,735,379.19 | 39.80213616 | -80.66188408 |
| 24,700.05 | 89.00 | 150.005 | 11,877.18 | -9,748.00 | 3,127.05 | 14,454,777.26 | 1,735,429.17 | 39.80189783 | -80.66170727 |
| 24,800.05 | 89.00 | 150.005 | 11,878.93 | -9,834.59 | 3,177.03 | 14,454,690.67 | 1,735,479.16 | 39.80165951 | -80.66153047 |
| 24,900.05 | 89.00 | 150.005 | 11,880.68 | -9,921.18 | 3,227.02 | 14,454,604.08 | 1,735,529.14 | 39.80142118 | -80.66135367 |
| 25,000.05 | 89.00 | 150.005 | 11,882.43 | -10,007.78 | 3,277.00 | 14,454,517.48 | 1,735,579.13 | 39.80118286 | -80.66117686 |
| 25,100.05 | 89.00 | 150.005 | 11,884.17 | -10,094.37 | 3,326.99 | 14,454,430.89 | 1,735,629.11 | 39.80094453 | -80.66100006 |
| 25,200.05 | 89.00 | 150.005 | 11,885.92 | -10,180.96 | 3,376.97 | 14,454,344.30 | 1,735,679.10 | 39.80070620 | -80.66082327 |
| 25,300.05 | 89.00 | 150.005 | 11,887.67 | -10,267.56 | 3,426.96 | 14,454,257.70 | 1,735,729.08 | 39.80046788 | -80.66064647 |

| | | | |
|------------------|--------------------------------|-------------------------------------|------------------------------|
| Database: | DB_Aug1919_v14 | Local Co-ordinate Reference: | Well Hudson S-11 HU (slot B) |
| 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-11 HU (slot B) | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Hole | | |
| Design: | rev6 | | |

| Planned Survey | | | | | | | | | | |
|----------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|--------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 25,400.05 | 89.00 | 150.005 | 11,889.42 | -10,354.15 | 3,476.94 | 14,454,171.11 | 1,735,779.07 | 39.80022955 | -80.66046967 | |
| 25,500.05 | 89.00 | 150.005 | 11,891.17 | -10,440.74 | 3,526.93 | 14,454,084.52 | 1,735,829.05 | 39.79999122 | -80.66029288 | |
| 25,600.05 | 89.00 | 150.005 | 11,892.92 | -10,527.34 | 3,576.91 | 14,453,997.92 | 1,735,879.04 | 39.79975290 | -80.66011608 | |
| 25,604.62 | 89.00 | 150.005 | 11,893.00 | -10,531.29 | 3,579.20 | 14,453,993.97 | 1,735,881.32 | 39.79974201 | -80.66010800 | |
| PBHL/TD 25604.62 MD/11893.00 TVD | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|--|---------------|--------------|-----------|------------|------------|-----------------|----------------|-------------|--------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| Hudson 11HU LP r1 - hit/miss target - Shape - Point | 0.00 | 0.000 | 11,668.25 | 595.65 | -2,843.73 | 14,465,120.89 | 1,729,458.41 | 39.83036393 | -80.68283536 | |
| Hudson 11HU PBHL r5 - plan hits target center - Point | 0.00 | 0.000 | 11,893.00 | -10,531.30 | 3,579.20 | 14,453,993.96 | 1,735,881.32 | 39.79974200 | -80.66010800 | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 1,300.00 | 1,300.00 | 0.00 | 0.00 | KOP Begin 1°/100' build | |
| 1,800.00 | 1,799.37 | 10.34 | -19.20 | Begin 5.00° tangent | |
| 3,105.60 | 3,100.00 | 64.28 | -119.39 | Begin 3°/100' build | |
| 3,605.60 | 3,586.76 | 115.44 | -214.40 | Begin 20.00° tangent | |
| 6,492.98 | 6,300.00 | 583.62 | -1,083.91 | Begin 5°/100' drop | |
| 6,692.98 | 6,492.94 | 608.13 | -1,129.43 | Begin 10.00° tangent | |
| 7,207.86 | 7,000.00 | 650.52 | -1,208.15 | Begin 4°/100' build/turn | |
| 7,635.71 | 7,404.32 | 703.22 | -1,332.45 | Begin 26.99° tangent | |
| 11,384.02 | 10,744.47 | 1,311.16 | -2,921.04 | Begin 8°/100' build/turn | |
| 12,754.97 | 11,668.25 | 595.65 | -2,843.73 | Begin 89.00° lateral | |
| 25,604.62 | 11,893.00 | -10,531.29 | 3,579.20 | PBHL/TD 25604.62 MD/11893.00 TVD | |

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

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 (03/10/2020) 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

4705102296

Permit well - Hudson S-11HU
 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 |
|--------------|--------------------------------|-------------|----------------|--------------------------------|---|-------------------------------|
| 47-051-01964 | Tug Hill Operating, LLC | 6865' TVD | Marcellus | None | No, the well is not deep enough to be within the expected fracture propagation from a Point Pleasant stimulation. | |
| 47-051-40023 | 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. |
| 47-051-30448 | Manufacturers Light & Heat Co. | 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 9/20/1963. |
| 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. |

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

4705102296

WV Oil and Gas Permit

Well: County = 51 Permit = 02291

Report Date: Tuesday, March 10, 2020 9:28 AM

Well Name: ...

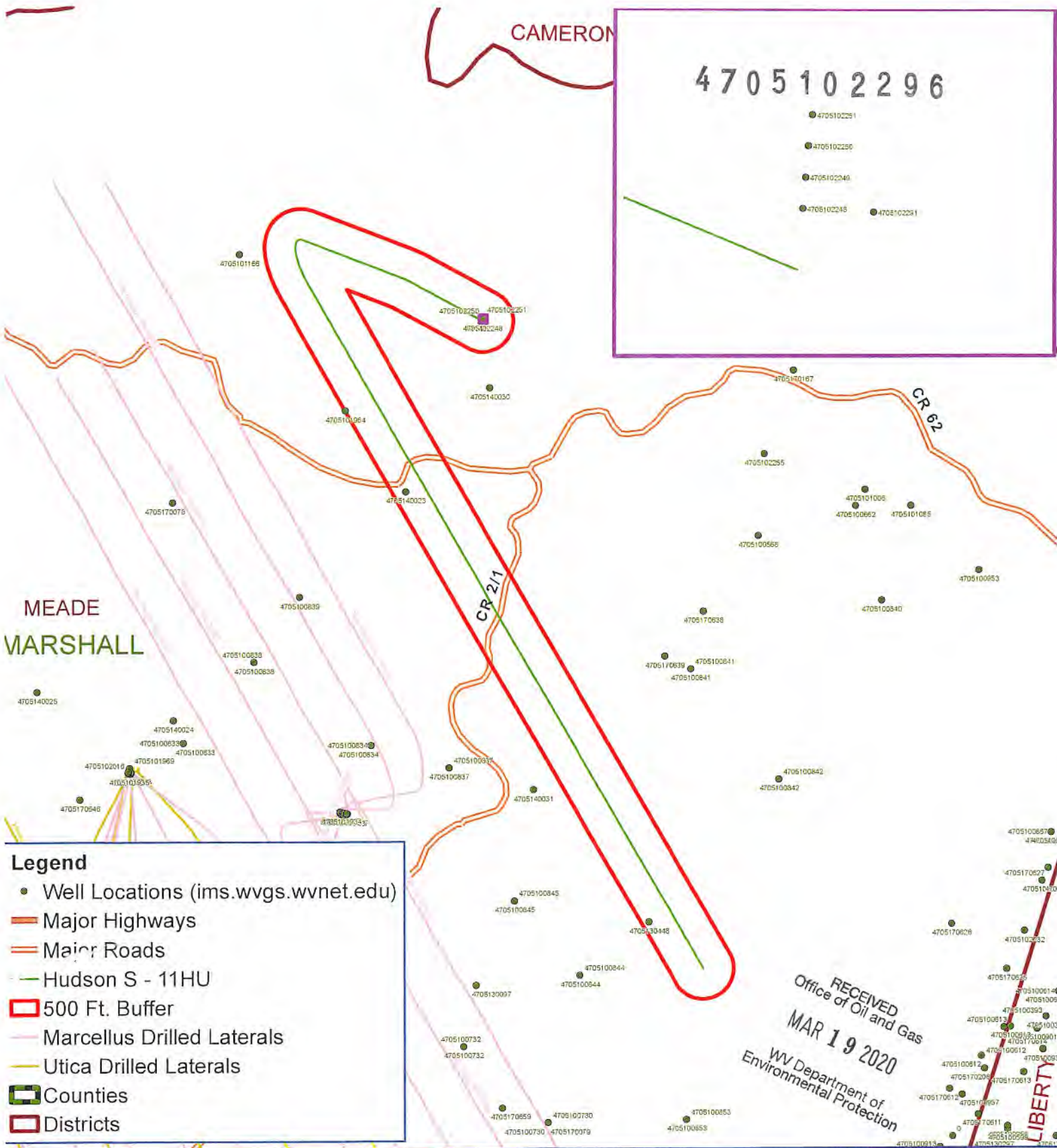
Operator: ...

Location: ...

Production Data: ...

- There is no Pay data for this well
- There is no Production Gas data for this well
- There is no Production Oil data for this well ** some operators may have reported NO2 under Oil
- There is no Production Water data for this well
- There is no Stripper gas data for this well
- There is no Nitrogen (N2) gas data for this well
- There is no Flaring data for this well
- There is no Sample data for this well

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



Hudson S - 11HU Meade District Marshall County, WV



Notes:



4705102296



Well Site Safety Plan
Tug Hill Operating, LLC

JL
3/11/2020

Well Name: Hudson S-11HU

Pad Location: Hudson Pad

Wetzel County, West Virginia

UTM (meters), NAD83, Zone 17:

Northing: 4,408,796.11

Easting: 528,006.75

March 2020

**HUDSON S LEASE
UTICA UNIT - 463.24 AC±
WELL 11HU
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 |
| 9-5-6 | NANCY L. SNYDER (LIFE ESTATE) | 82.858 |
| 9-5-6.1 | JON B. CRAWFORD | 4.679 |
| 9-5-6.9 | CNX LAND CO. LLC | 22.39 |
| 9-5-7 | ME CHURCH | 81.5 POLES (6 AC. ASSD) |
| 9-5-8.1 | ISACC MCKINNEY, ET UX | 2.875 |
| 9-5-8.2 | MISTY CROW W/ ROBERT & ELSIE WHETZEL (LIFE ESTATE) | 1.973 |
| 9-5-11.1 | MARK H. FOX | 2.619 |
| 9-5-11.3 | MARK H. FOX | 1.94 |
| 9-5-13 | SHELLY ANN JORDAN | 5.51 |
| 9-5-14.1 | SAVANNA N & MATTHEW WEST | 2.819 |
| 9-5-14.4 | BETTY R. OTT | 10.501 |
| 9-5-16 | LARRY L. CONKLE, JR. | 2.365 |
| 9-5-16.1 | SCOTT A. HOSTUTLER | 0.142 |
| 9-5-21 | RALPH E. WELLMAN, ET UX | 1.00 |
| 9-5-22 | RALPH E. WELLMAN, ET UX | 0.5 |
| 9-7-9 | CNX LAND CO. LLC | 2.00 |
| 9-7-10 | DONALD M. & THERESA L. HARRIS | 3.00 |
| 9-7-11.1 | WV DEPT. OF HIGHWAYS | 3.63 |
| 9-7-27 | LOGAN M TOLER & ASHLEY N. BERARDI | 1.005 |
| 9-7-28 | VICTOR & CLAIRE CAMERON | 1.983 |
| 9-7-28.1 | NATHAN WILLIAMS | 2.768 |
| 9-8-1 | CNX LAND CO. LLC | 2.908 |
| 9-8-2 | CNX LAND CO. LLC | 6000 SQ. FT. |

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

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 486,104.49 | E. 1,639,156.22 |
| NAD'83 GEO. | LAT-(N) 39.828700 | LONG-(W) 80.672714 |
| NAD'83 UTM (M) | N. 4,408,796.11 | E. 528,006.75 |

LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 486,747.8 | E. 1,636,321.9 |
| NAD'83 GEO. | LAT-(N) 39.830364 | LONG-(W) 80.682835 |
| NAD'83 UTM (M) | N. 4,408,977.7 | E. 527,140.0 |

BOTTOM HOLE

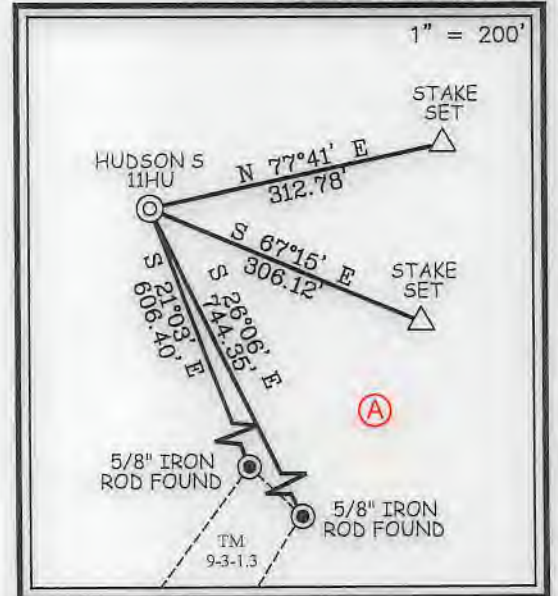
| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 475,511.3 | E. 1,642,580.1 |
| NAD'83 GEO. | LAT-(N) 39.799742 | LONG-(W) 80.680108 |
| NAD'83 UTM (M) | N. 4,405,586.2 | E. 529,097.7 |

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-11HU (47-051-02296) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-12HU (47-051-02292), HUDSON S-13HU (47-051-02293), HUDSON S-14HU (47-051-02327), HUDSON S-15HU (47-051-02328), HUDSON S-16HU (47-051-02329), TEN HIGH 1N-13HU (47-051-01965), TEN HIGH 1N-20HU (47-051-02021), TEN HIGH 1S-16HU (47-051-02028), TEN HIGH 1S-17HU (47-051-02033), 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.

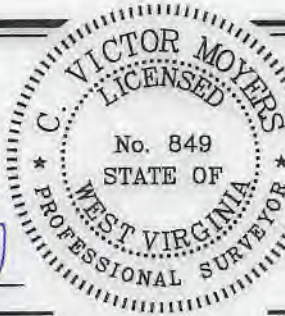
B.H.

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 | 304.255.5295

slswv.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 10/18/19, 11/07/19, 01/08/20, 01/27/20, 03/18/20, 08/07/20
OPERATORS WELL NO. HUDSON S-11HU
API WELL NO. 47 - 051 - 02296
STATE COUNTY PERMIT MOD

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8911P11HUR6.dwg HUDSON S-11HU 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: 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: 11,901' / TMD: 25,605'

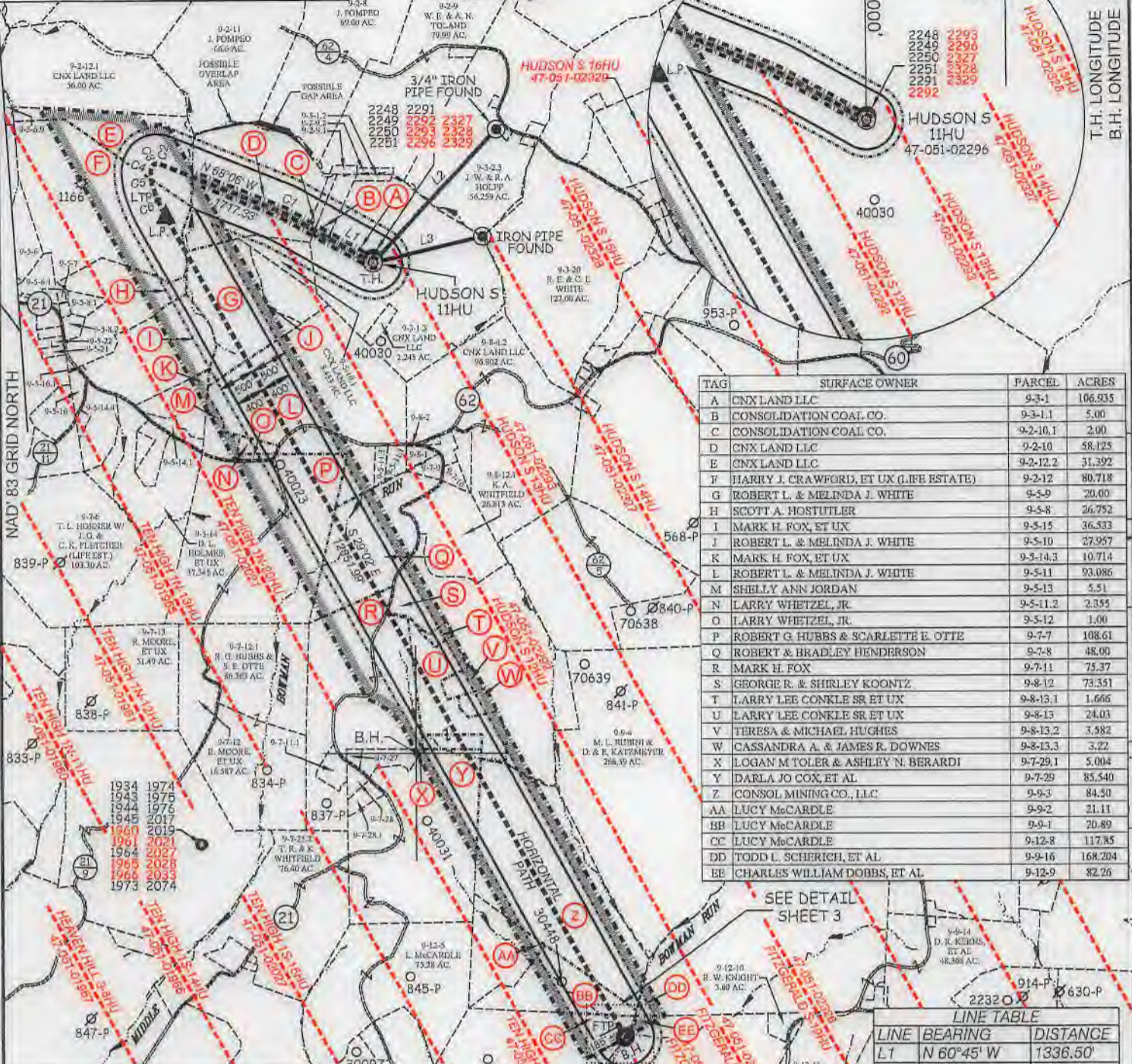
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

**HUDSON S LEASE
UTICA UNIT - 463.24 AC±
WELL 11HU
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"



| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|--|----------|---------|
| A | CNX LAND LLC | 9-3-1 | 106.935 |
| B | CONSOLIDATION COAL CO. | 9-3-1.1 | 5.00 |
| C | CONSOLIDATION COAL CO. | 9-2-10.1 | 2.00 |
| D | CNX LAND LLC | 9-2-10 | 58.125 |
| E | CNX LAND LLC | 9-2-12.2 | 31.392 |
| F | HARRY J. CRAWFORD, ET UX (LIFE ESTATE) | 9-2-12 | 80.718 |
| G | ROBERT L. & MELINDA J. WHITE | 9-5-9 | 20.00 |
| H | SCOTT A. HOSTITLER | 9-5-8 | 26.752 |
| I | MARK H. FOX, ET UX | 9-5-15 | 36.533 |
| J | ROBERT L. & MELINDA J. WHITE | 9-5-10 | 27.957 |
| K | MARK H. FOX, ET UX | 9-5-14.3 | 10.714 |
| L | ROBERT L. & MELINDA J. WHITE | 9-5-11 | 93.086 |
| M | SHELLY ANN JORDAN | 9-5-13 | 5.51 |
| N | LARRY WHETZEL, JR. | 9-5-11.2 | 2.355 |
| O | LARRY WHETZEL, JR. | 9-5-12 | 1.00 |
| P | ROBERT G. HUBBS & SCARLETTE E. OTTE | 9-7-7 | 108.61 |
| Q | ROBERT & BRADLEY HENDERSON | 9-7-8 | 48.00 |
| R | MARK H. FOX | 9-7-11 | 75.37 |
| S | GEORGE R. & SHIRLEY KOONTZ | 9-8-12 | 73.551 |
| T | LARRY LEE CONKLE SR ET UX | 9-8-13.1 | 1.666 |
| U | LARRY LEE CONKLE SR ET UX | 9-8-13 | 24.03 |
| V | TERESA & MICHAEL HUGHES | 9-8-13.2 | 3.582 |
| W | CASSANDRA A. & JAMES R. DOWNES | 9-8-13.3 | 3.22 |
| X | LOGAN M. TOLER & ASHLEY N. BERARDI | 9-7-29.1 | 5.004 |
| Y | DARLA JO COX, ET AL | 9-7-29 | 85.540 |
| Z | CONSOL MINING CO., LLC | 9-9-3 | 84.50 |
| AA | LUCY McCARDLE | 9-9-2 | 21.11 |
| BB | LUCY McCARDLE | 9-9-1 | 20.89 |
| CC | LUCY McCARDLE | 9-12-8 | 117.85 |
| DD | TODD L. SCHERICH, ET AL | 9-9-16 | 168.204 |
| EE | CHARLES WILLIAM DOBBS, ET AL | 9-12-9 | 82.26 |

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 60°45' W | 1336.50' |
| L2 | N 43°17' E | 2489.96' |
| L3 | N 76°53' E | 1546.87' |

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1 | 155.41' | 991.43' | N 64°38' W | 155.25' |
| C2 | 63.83' | 142.24' | N 79°47' W | 63.30' |
| C3 | 62.66' | 69.86' | S 58°50' W | 60.58' |
| C4 | 82.01' | 169.99' | S 16°18' W | 81.22' |
| C5 | 232.23' | 708.65' | S 08°30' E | 231.19' |
| C6 | 425.69' | 1954.16' | S 23°18' E | 424.85' |

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.6296

slsvv.com

P.S. 849 *C. Victor Moyers*

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

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 486,104.49 | E. 1,639,156.22 |
| NAD'83 GEO. | LAT-(N) 39.828700 | LONG-(W) 80.672714 |
| NAD'83 UTM (M) | N. 4,408,796.11 | E. 528,006.75 |

LANDING POINT

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 486,747.8 | E. 1,636,321.9 |
| NAD'83 GEO. | LAT-(N) 39.830364 | LONG-(W) 80.682835 |
| NAD'83 UTM (M) | N. 4,408,977.7 | E. 527,140.0 |

BOTTOM HOLE

| | | |
|-------------------|-------------------|--------------------|
| NAD'83 S.P.C.(FT) | N. 475,511.3 | E. 1,642,580.1 |
| NAD'83 GEO. | LAT-(N) 39.799742 | LONG-(W) 80.660108 |
| NAD'83 UTM (M) | N. 4,405,586.2 | E. 529,087.7 |



(+) 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. 8911P11HUR6.dwg
HUDSON S-11HU REV6
DATE AUGUST 23, 20 19
REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20, 03/18/20, 08/07/20
OPERATORS WELL NO. HUDSON S-11HU M&D
API WELL 47 - 051 - 02296
NO. STATE COUNTY PERMIT

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

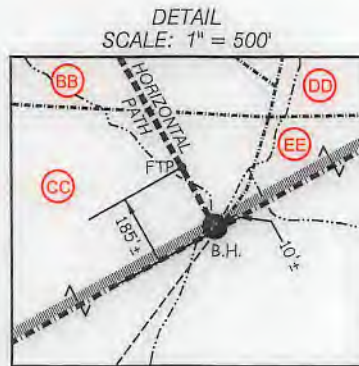
WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107
DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

**HUDSON S LEASE
UTICA UNIT - 463.24 AC ±
WELL 11HU
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5534
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.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*26044 | 9-3-1.1 | B | JOYCE A WALLACE, ET AL | 853 | 296 |
| 3 | 10*26711 | 9-2-10.1 | C | CNX GAS COMPANY LLC | 1074 | 593 |
| 4 | 10*26001 | 9-2-10 | D | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 5 | 10*26000 | 9-2-12.2 | E | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | 661 | 156 |
| 6 | 10*26000 | 9-2-12 | F | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | 661 | 156 |
| 7 | 10*26001 | 9-5-9 | G | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 8 | 10*19206 | 9-5-8 | H | SCOTT A HOSTUTLER | 724 | 208 |
| 9 | 10*19005 | 9-5-15 | I | MARK H. FOX AND RETTA J. FOX, HIS WIFE | 687 | 598 |
| 10 | 10*26001 | 9-5-10 | J | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 11 | 10*19005 | 9-5-14.3 | K | MARK H. FOX AND RETTA J. FOX, HIS WIFE | 687 | 598 |
| 12 | 10*24424 | 9-5-11 | L | THE FAYE A SKOEN REVOCABLE TRUST, ET AL | 1024 | 291 |
| 13 | 10*26002 | 9-5-13 | M | GEORGIA JORDAN LIFE ESTATE AND SHELLY ANN JORDAN REMAINDERMAN | 687 | 616 |
| 14 | 10*24424 | 9-5-11.2 | N | THE FAYE A SKOEN REVOCABLE TRUST | 1024 | 291 |
| 15 | 10*47051.188.0 | 9-5-12 | O | LARRY J WHETZEL JR | 869 | 216 |
| 16 | 10*15503 | 9-7-7 | P | ROBERT HUBBS | 677 | 521 |
| 17 | 10*26003 | 9-7-8 | Q | ROBERT HENDERSON AND DEBRA HENDERSON, HUSBAND & WIFE, AND BRADLEY HENDERSON | 697 | 215 |
| 18 | 10*47051.094.0 | 9-7-11 | R | MARK H FOX | 864 | 163 |
| 19 | 10*47051.208.0 | 9-8-12 | S | SHIRLEY KOONTZ POA KELLI KOONTZ BENLINE | 869 | 222 |
| 20 | 10*28169 | 9-8-13.1 | T | LARRY L CONKLE AND DONNA D CONKLE | 1068 | 299 |
| 21 | 10*28169 | 9-8-13 | U | LARRY L CONKLE AND DONNA D CONKLE | 1068 | 299 |
| 22 | 10*47051.150.1 | 9-8-13.2 | V | MICHAEL J HUGHES & TERESA A HUGHES | 866 | 309 |
| 23 | 10*28169 | 9-8-13.3 | W | LARRY L CONKLE AND DONNA D CONKLE | 1068 | 299 |
| 24 | 10*15524 | 9-7-29.1 | X | CAROL J ANDERSON ETAL | 901 | 563 |
| 25 | 10*15524 | 9-7-29 | Y | CAROL J ANDERSON ETAL | 901 | 563 |
| 26 | 10*47051.304.0 | 9-9-3 | Z | UNITED BANK INC | 905 | 5 |
| 27 | 10*23386 | 9-9-2 | AA | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER, ET AL | 1008 | 68 |
| 28 | 10*23386 | 9-9-1 | BB | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER, ET AL | 1008 | 68 |
| 29 | 10*47051.289.1 | 9-12-8 | CC | JANICE M HIXSON AND HARRY C HIXSON, ET AL | 898 | 451 |
| 30 | 10*19987 | 9-9-16 | DD | LESLEY D BALLA, ET AL | 955 | 103 |
| 31 | 10*15999 | 9-12-9 | EE | CHARLES W DOBBS AND JUDITH M DOBBS, ET AL | 702 | 171 |



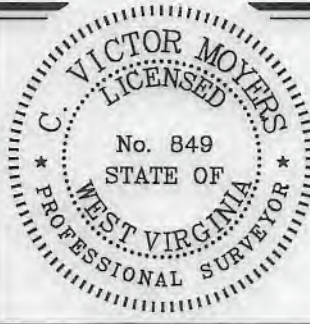
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HUDSON S-11HU REV6

DATE AUGUST 23, 20 19

REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20, 03/18/20, 08/07/20

OPERATORS WELL NO. HUDSON S-11HU

API WELL NO. 47 — 051 — 02296
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 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME

PERMIT

**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 |
|----------------------|-----------------------|-----------------------|---------|-----------|
|----------------------|-----------------------|-----------------------|---------|-----------|

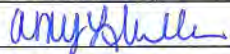
*See attached pages

**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 
 Its: Permitting Specialist - Appalachia Region

| Lease ID | Parcel | Tag | Grantor, Lessor, Etc. | Grantee, Lessee, Etc. | Royalty | Deed Book/Page | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | | |
|----------|--------|-----|---|---------------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|---|--|--|
| 10*26041 | 9-3-1 | A | FREDDIE C WHITE AND VIOLET L WHITE | CHESAPEAKE APPALACHIA LLC | 1/8+ | 728 527 | N/A | N/A | N/A | N/A | N/A | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | |
|----------|--------|-----|---|-----------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 SARAA 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | | |
|----------|---------|-----|---|-----------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|---|--|--|
| 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 | 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 | 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 YOUCUM | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | N/A | N/A | N/A | N/A | N/A | |
| 10*26044 | 9-3-1.1 | B | 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 | 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*26047 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | |
|----------|---------|-----|----------------------------------|-----------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| 10*26051 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26056 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | |
|----------|---------|-----|---|-----------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| 10*26078 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26100 | 9-3-1.1 | B | 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 | 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 | B | JAMES D AND LINDA D YOUCUM | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | |
|----------|----------|-----|--|------------------------|---------|----------------|------------|------------|------------|---|---|---|---|---|---|---|---|--|--|--|
| 10*26238 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | JILL LORI HENNING 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 | 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 | 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 | N/A | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*27180 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*27181 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*27703 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*26711 | 9-2-10.1 | C | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*26001 | 9-2-10 | D | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY INC | 1/8+ | 655 555 | N/A | N/A | N/A | N/A | 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*26000 | 9-2-12.2 | E | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | TRIENERGY INC | 1/8+ | 661 156 | N/A | N/A | N/A | TriEnergy Inc to AB Resources LLC: 20/252 | AB Resources LLC to Chief Exploration & Development LLC: 666/40 | TriEnergy Inc to TriEnergy Holdings LLC: 21/148 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 21/319 | 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, Radler 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*26000 | 9-2-12 | F | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | TRIENERGY INC | 1/8+ | 661 156 | N/A | N/A | N/A | TriEnergy Inc to AB Resources LLC: 20/252 | AB Resources LLC to Chief Exploration & Development LLC: 666/40 | TriEnergy Inc to TriEnergy Holdings LLC: 21/148 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 21/319 | 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*26001 | 9-5-9 | G | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY INC | 1/8+ | 655 555 | N/A | N/A | N/A | 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, Radler 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*19206 | 9-5-8 | H | SCOTT A HOSTUTLER | TRIENERGY HOLDINGS LLC | 1/8+ | 724 208 | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 25/463 | N/A | TriEnergy Holdings LLC to NPAR LLC to Chevron USA Inc: 26/269 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | NPAR LLC to Chevron USA Inc: 800/236 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 40/127 | Chevron USA Inc to TH Exploration LLC: 42/435 | Chevron USA Inc to TH Exploration LLC: 43/95 | |
| 10*19005 | 9-5-15 | I | MARK H. FOX AND RETTA J. FOX, HIS WIFE | TRIENERGY HOLDINGS LLC | 1/8+ | 687 598 | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 23/74 | AB Resources & NPAR LLC to Chief Exploration & Development LLC and Radler 2000 LP: 24/490 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | NPAR LLC to Chevron USA Inc: 756/332 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 40/127 | Chevron USA Inc to 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 | Assignment | Assignment | Assignment | Assignment | |
|----------|----------|-----|--|------------------------|---------|----------------|------------|------------|------------|------------|---|---|---|---|---|---|---|--|---|
| 10*26001 | 9-5-10 | J | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY INC | 1/8+ | 655 555 | N/A | N/A | N/A | N/A | 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, Radler 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 | TriEnergy Holdings LLC & TriEnergy Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*19005 | 9-5-14.3 | K | MARK H. FOX AND RETTA J. FOX, HIS WIFE | TRIENERGY HOLDINGS LLC | 1/8+ | 687 598 | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 23/74 | AB Resources & NPAR LLC to Chief Exploration & Development LLC and Radler 2000 LP: 24/490 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | NPAR LLC to Chevron USA Inc: 756/332 | 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*24424 | 9-5-11 | L | THE FAYE A SKOEN REVOCABLE TRUST | TH EXPLORATION LLC | 1/8+ | 1024 291 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24578 | 9-5-11 | L | FRANK E WHITMAN JR AND GAYLE WHITMAN | TH EXPLORATION LLC | 1/8+ | 1026 241 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24973 | 9-5-11 | L | IWA K BONAR | TH EXPLORATION LLC | 1/8+ | 1028 577 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26001 | 9-5-11 | L | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY INC | 1/8+ | 655 555 | N/A | N/A | N/A | N/A | 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*26096 | 9-5-11 | L | GRACE LAURA BONAR | CHEVRON USA INC | 1/8+ | 865 198 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26101 | 9-5-11 | L | BARBARA LOIS HADLEY | CHEVRON USA INC | 1/8+ | 868 21 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26102 | 9-5-11 | L | AMBER ORTOLL | CHEVRON USA INC | 1/8+ | 871 391 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26103 | 9-5-11 | L | ROBERT GLENN BONAR | CHEVRON USA INC | 1/8+ | 868 92 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26104 | 9-5-11 | L | JAMES MCPHERSON SCHILLING | CHEVRON USA INC | 1/8+ | 868 202 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26105 | 9-5-11 | L | LESTER D FAUST | CHEVRON USA INC | 1/8+ | 870 560 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26106 | 9-5-11 | L | RICHARD CHRIS BOGATKO | CHEVRON USA INC | 1/8+ | 870 557 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26128 | 9-5-11 | L | WILLIAM A BRUNNER JR AND JOYCE A BRUNNER | CHEVRON USA INC | 1/8+ | 888 30 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26129 | 9-5-11 | L | MARJORIE JARETTA FAUST | CHEVRON USA INC | 1/8+ | 888 10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26167 | 9-5-11 | L | FRANK B DAY | CHEVRON USA INC | 1/8+ | 871 583 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26201 | 9-5-11 | L | IDEN SCOTT MCWHORTER | CHEVRON USA INC | 1/8+ | 888 21 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26202 | 9-5-11 | L | LOTA JO MITCHELL AND DAVID S MITCHELL | CHEVRON USA INC | 1/8+ | 888 27 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26306 | 9-5-11 | L | DAVID L BONAR | CHEVRON USA INC | 1/8+ | 890 475 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26308 | 9-5-11 | L | HARRY A SALO AND BETTY A SALO | CHEVRON USA INC | 1/8+ | 894 395 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26309 | 9-5-11 | L | STEVEN ALAN ARMIGER | CHEVRON USA INC | 1/8+ | 891 69 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26310 | 9-5-11 | L | KATHERINE ANN LUONGO FAIRBROTHER | CHEVRON USA INC | 1/8+ | 901 38 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26313 | 9-5-11 | L | JOSEPH M DURINSKY | CHEVRON USA INC | 1/8+ | 893 244 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26314 | 9-5-11 | L | ROBIN KACHELE | CHEVRON USA INC | 1/8+ | 893 180 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26337 | 9-5-11 | L | KATHLEEN ELAINE ALEXANDRA SHIREY | CHEVRON USA INC | 1/8+ | 901 134 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26345 | 9-5-11 | L | SHARON LOUISE EVANS | CHEVRON USA INC | 1/8+ | 915 597 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26806 | 9-5-11 | L | JASON R FREID | TH EXPLORATION LLC | 1/8+ | 1045 457 | N/A | N/A | N/A | N/A | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | |
|----------|----------|-----|--|------------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| 10*27483 | 9-5-11 | L | SARI FAUST | CHEVRON USA INC | 1/8+ | 876 490 | N/A | N/A | N/A | N/A | 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*27496 | 9-5-11 | L | RICHARD SCOTT WILLIAMSON | CHEVRON USA INC | 1/8+ | 888 24 | N/A | N/A | N/A | N/A | 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*27501 | 9-5-11 | L | ELEANOR MARGO MORRIS | CHEVRON USA INC | 1/8+ | 882 472 | N/A | N/A | N/A | N/A | 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*27502 | 9-5-11 | L | BARBARA L BYRNE TRUSTEE OF THE JOINT REVOCABLE TRUST AGREEMENT DTD 5/23/2006 | CHEVRON USA INC | 1/8+ | 921 610 | N/A | N/A | N/A | N/A | 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*27504 | 9-5-11 | L | INTERNATIONAL WOMENS AIR AND SPACE MUSEUM INC | CHEVRON USA INC | 1/8+ | 907 41 | N/A | N/A | N/A | N/A | 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*27506 | 9-5-11 | L | FREDERICK ALLEN FAUST | CHEVRON USA INC | 1/8+ | 888 15 | N/A | N/A | N/A | N/A | 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*27509 | 9-5-11 | L | SANDRA MARIA PAPPA CYNTHIA CLAIR HOLSTEIN GUARDIAN | CHEVRON USA INC | 1/8+ | 913 1 | N/A | N/A | N/A | N/A | 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*27907 | 9-5-11 | L | JOSE ZUKOWSKI-FAUST | TH EXPLORATION LLC | 1/8+ | 1067 380 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27915 | 9-5-11 | L | WVSTO UNCLAIMED PROPERTY | TH EXPLORATION LLC | 1/8+ | 1067 387 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27953 | 9-5-11 | L | TROY D BONAR AND KATHLEEN BONAR | TH EXPLORATION LLC | 1/8+ | 1064 600 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26002 | 9-5-13 | M | GEORGIA JORDAN LIFE ESTATE AND SHELLY ANN JORDAN REMAINDERMAN | TRIENERGY HOLDINGS LLC | 1/8+ | 687 616 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to Chevron USA Inc: 28/356 |
| 10*24424 | 9-5-11.2 | N | THE FAYE A SKOEN REVOCABLE TRUST | TH EXPLORATION LLC | 1/8+ | 1024 291 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to Chevron USA Inc: 28/356 |
| 10*24578 | 9-5-11.2 | N | FRANK E WHITMAN JR AND GAYLE WHITMAN | TH EXPLORATION LLC | 1/8+ | 1026 241 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24973 | 9-5-11.2 | N | IWA K BONAR | TH EXPLORATION LLC | 1/8+ | 1028 577 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26096 | 9-5-11.2 | N | GRACE LAURA BONAR | CHEVRON USA INC | 1/8+ | 865 198 | N/A | N/A | N/A | N/A | 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*26101 | 9-5-11.2 | N | BARBARA LOIS HADLEY | CHEVRON USA INC | 1/8+ | 868 21 | N/A | N/A | N/A | N/A | 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*26102 | 9-5-11.2 | N | AMBER ORTOLL | CHEVRON USA INC | 1/8+ | 871 391 | N/A | N/A | N/A | N/A | 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*26103 | 9-5-11.2 | N | ROBERT GLENN BONAR | CHEVRON USA INC | 1/8+ | 868 92 | N/A | N/A | N/A | N/A | 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*26104 | 9-5-11.2 | N | JAMES MCPHERSON SCHILLING | CHEVRON USA INC | 1/8+ | 868 202 | N/A | N/A | N/A | N/A | 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*26105 | 9-5-11.2 | N | LESTER D FAUST | CHEVRON USA INC | 1/8+ | 870 560 | N/A | N/A | N/A | N/A | 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*26106 | 9-5-11.2 | N | RICHARD CHRIS BOGATKO | CHEVRON USA INC | 1/8+ | 870 557 | N/A | N/A | N/A | N/A | 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*26128 | 9-5-11.2 | N | WILLIAM A BRUNNER JR AND JOYCE A BRUNNER | CHEVRON USA INC | 1/8+ | 888 30 | N/A | N/A | N/A | N/A | 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*26129 | 9-5-11.2 | N | MARJORIE JARETTA FAUST | CHEVRON USA INC | 1/8+ | 888 10 | N/A | N/A | N/A | N/A | 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*26167 | 9-5-11.2 | N | FRANK B DAY | CHEVRON USA INC | 1/8+ | 871 583 | N/A | N/A | N/A | N/A | 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*26201 | 9-5-11.2 | N | IDEN SCOTT MCWHORTER | CHEVRON USA INC | 1/8+ | 888 21 | N/A | N/A | N/A | N/A | 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*26202 | 9-5-11.2 | N | LOTA JO MITCHELL AND DAVID S MITCHELL | CHEVRON USA INC | 1/8+ | 888 27 | N/A | N/A | N/A | N/A | 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*26306 | 9-5-11.2 | N | DAVID L BONAR | CHEVRON USA INC | 1/8+ | 890 475 | N/A | N/A | N/A | N/A | 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*26308 | 9-5-11.2 | N | HARRY A SALO AND BETTY A SALO | CHEVRON USA INC | 1/8+ | 894 395 | N/A | N/A | N/A | N/A | 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*26309 | 9-5-11.2 | N | STEVEN ALAN ARMIGER | CHEVRON USA INC | 1/8+ | 891 69 | N/A | N/A | N/A | N/A | 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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| Lease ID | Parcel | Tag | Grantor, Lessor, Etc. | Grantee, Lessee, Etc. | Royalty | Deed Book/Page | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | | |
|----------------|----------|-----|--|---------------------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|---|---|--|--|--|
| 10*26310 | 9-5-11.2 | N | KATHERINE ANN LUONGO FAIRBROTHER | CHEVRON USA INC | 1/8+ | 901 38 | N/A | N/A | N/A | N/A | 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*26313 | 9-5-11.2 | N | JOSEPH M DURINSKY | CHEVRON USA INC | 1/8+ | 893 244 | N/A | N/A | N/A | N/A | 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*26314 | 9-5-11.2 | N | ROBIN KACHELE | CHEVRON USA INC | 1/8+ | 893 180 | N/A | N/A | N/A | N/A | 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*26337 | 9-5-11.2 | N | KATHLEEN ELAINE ALEXANDRA SHIREY | CHEVRON USA INC | 1/8+ | 901 134 | N/A | N/A | N/A | N/A | 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*26345 | 9-5-11.2 | N | SHARON LOUISE EVANS | CHEVRON USA INC | 1/8+ | 915 597 | N/A | N/A | N/A | N/A | 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*26806 | 9-5-11.2 | N | JASON R FREID | TH EXPLORATION LLC | 1/8+ | 1045 457 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27483 | 9-5-11.2 | N | SARI FAUST | CHEVRON USA INC | 1/8+ | 876 490 | N/A | N/A | N/A | N/A | 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*27496 | 9-5-11.2 | N | RICHARD SCOTT WILLIAMSON | CHEVRON USA INC | 1/8+ | 888 24 | N/A | N/A | N/A | N/A | 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*27501 | 9-5-11.2 | N | ELEANOR MARGO MORRIS | CHEVRON USA INC | 1/8+ | 882 472 | N/A | N/A | N/A | N/A | 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*27502 | 9-5-11.2 | N | BARBARA L BYRNE TRUSTEE OF THE JOINT REVOCABLE TRUST AGREEMENT DTD 5/23/2006 | CHEVRON USA INC | 1/8+ | 921 610 | N/A | N/A | N/A | N/A | 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*27504 | 9-5-11.2 | N | INTERNATIONAL WOMENS AIR AND SPACE MUSEUM INC | CHEVRON USA INC | 1/8+ | 907 41 | N/A | N/A | N/A | N/A | 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*27506 | 9-5-11.2 | N | FREDERICK ALLEN FAUST | CHEVRON USA INC | 1/8+ | 888 15 | N/A | N/A | N/A | N/A | 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*27509 | 9-5-11.2 | N | SANDRA MARIA PAPPA CYNTHIA CLAIR HOLSTEIN GUARDIAN | CHEVRON USA INC | 1/8+ | 913 1 | N/A | N/A | N/A | N/A | 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*27907 | 9-5-11.2 | N | JOSIE ZUKOWSKI-FAUST | TH EXPLORATION LLC | 1/8+ | 1067 380 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27915 | 9-5-11.2 | N | WVSTO UNCLAIMED PROPERTY | TH EXPLORATION LLC | 1/8+ | 1067 387 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27953 | 9-5-11.2 | N | TROY D BONAR AND KATHLEEN BONAR | TH EXPLORATION LLC | 1/8+ | 1064 600 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*47051.188.0 | 9-5-11.2 | N | LARRY J WHETZEL JR | TH EXPLORATION LLC | 1/8+ | 869 216 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*47051.188.0 | 9-5-12 | O | LARRY J WHETZEL JR | TH EXPLORATION LLC | 1/8+ | 869 216 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*15503 | 9-7-7 | P | ROBERT HUBBS | CHIEF EXPLORATION & DEVELOPMENT | 1/8+ | 677 521 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Chief Exploration & Development LLC and Radler 2000 LP to Enerplus Resources USA Corp: 685/636 | Enerplus Resources USA Corp to Chief Exploration & Development LLC and Radler 2000 LP: 22/101 | Chief E&D LLC, Radler 2000 LP, Enerplus Resources USA Corp & AB Resources LLC: 24/495 | Chief E&D LLC, Radler 2000 LP, Chief O/G LLC, Enerplus Resources USA Corp to Chevron USA Inc: 25/1 & 25/105 | AB Resources LLC to Chevron USA Inc: 756/397 | Chevron USA Inc to TH Exploration LLC: 36/148 & 40/127 | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26003 | 9-7-8 | Q | ROBERT HENDERSON AND DEBRA HENDERSON, HUSBAND & WIFE, AND BRADLEY HENDERSON | AB RESOURCES LLC | 1/8+ | 697 215 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP: 24/490 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus Resources USA Corp to Chevron USA Inc: 25/1 & 25/105 | AB Resources LLC to NPAR LLC: 25/484 | NPAR LLC to Chevron USA Inc: 756/397 | AB Resources LLC to Chevron USA Inc: 756/397 | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 | |
| 10*47051.094.0 | 9-7-11 | R | MARK H FOX | TH EXPLORATION LLC | 1/8+ | 864 163 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*47051.208.0 | 9-8-12 | S | SHIRLEY KOONTZ POA KELLI KOONTZ BENLINE | TH EXPLORATION LLC | 1/8+ | 869 222 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*28169 | 9-8-13.1 | T | LARRY L CONKLE AND DONNA D CONKLE | TH EXPLORATION LLC | 1/8+ | 1068 299 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*28169 | 9-8-13 | U | LARRY L CONKLE AND DONNA D CONKLE | TH EXPLORATION LLC | 1/8+ | 1068 299 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*47051.150.1 | 9-8-13.2 | V | MICHAEL J HUGHES & TERESA A HUGHES | TH EXPLORATION LLC | 1/8+ | 865 309 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*28169 | 9-8-13.3 | W | LARRY L CONKLE AND DONNA D CONKLE | TH EXPLORATION LLC | 1/8+ | 1068 299 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*15524 | 9-7-29.1 | X | CAROL J ANDERSON ETAL | CHEVRON USA INC | 1/8+ | 901 563 | N/A | N/A | N/A | N/A | 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: 36/148 | |
| 10*15524 | 9-7-29 | Y | CAROL J ANDERSON ETAL | CHEVRON USA INC | 1/8+ | 901 563 | N/A | N/A | N/A | N/A | 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*47051.304.0 | 9-9-3 | Z | UNITED BANK INC | TH EXPLORATION LLC | 1/8+ | 905 5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*23386 | 9-9-2 | AA | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER | TH EXPLORATION LLC | 1/8+ | 1008 68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27947 | 9-9-2 | AA | STONE HILL MINERALS HOLDINGS LLC | TH EXPLORATION LLC | 1/8+ | 1063 568 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*23386 | 9-9-1 | BB | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER | TH EXPLORATION LLC | 1/8+ | 1008 68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27947 | 9-9-1 | BB | STONE HILL MINERALS HOLDINGS LLC | TH EXPLORATION LLC | 1/8+ | 1063 568 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*47051.289.1 | 9-12-8 | CC | JANICE M HIXSON AND HARRY C HIXSON | TH EXPLORATION LLC | 1/8+ | 898 461 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*47051.289.2 | 9-12-8 | CC | KENNETH D MCMECHEN | TH EXPLORATION LLC | 1/8+ | 898 463 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*19987 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | |
| 10*19993 | 9-9-16 | DD | 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 | 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 | Assignment | Assignment | Assignment | Assignment | Assignment | |
|----------|--------|-----|--|-------------------------|---------|----------------|--|---|---|---|--------------------------------------|--|---|--|--|--|---|---|--|-----|
| 10*19994 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*21117 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*21322 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*22199 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*22201 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*22202 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*22203 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*22526 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*22528 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*22553 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*22783 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*23315 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*24047 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*24397 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24398 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24413 | 9-9-16 | DD | 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 | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*15999 | 9-12-9 | EE | CHARLES W DOBBS AND JUDITH M DOBBS | TRIENERGY HOLDINGS LLC | 1/8+ | 702 171 | TriEnergy Holdings LLC to NPAR LLC: 24/180 | AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP: 24/466 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | NPAR LLC to Chevron USA Inc: 756/332 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 24/319 | Chevron USA Inc to Statoil USA Properties Inc: 30/494 | Chevron USA Inc to Chesapeake Appalachia LLC: 30/532 | Chesapeake Appalachia LLC to SWN Production Co LLC: 33/110 | Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC: 33/424 | Cert of Merger: SWN Exchange Titleholder LLC into SWN Production Co LLC: 19/624 | SWN Production Co LLC to TH Exploration LLC: 36/431 | Statoil USA Onshore Properties Inc to TH Exploration LLC: 36/455 | |
| 10*16000 | 9-12-9 | EE | DAVID J KLUKAS ET UX | TRIENERGY HOLDINGS LLC | 1/8+ | 702 175 | TriEnergy Holdings LLC to NPAR LLC: 24/180 | AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP: 24/466 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | NPAR LLC to Chevron USA Inc: 756/332 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 24/319 | Chevron USA Inc to Statoil USA Properties Inc: 30/494 | Chevron USA Inc to Chesapeake Appalachia LLC: 30/532 | Chesapeake Appalachia LLC to SWN Production Co LLC: 33/110 | Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC: 33/424 | Cert of Merger: SWN Exchange Titleholder LLC into SWN Production Co LLC: 19/624 | SWN Production Co LLC to TH Exploration LLC: 36/431 | Statoil USA Onshore Properties Inc to TH Exploration LLC: 36/455 | |
| 10*16001 | 9-12-9 | EE | MARLENE D GARIN | TRIENERGY HOLDINGS LLC | 1/8+ | 702 173 | TriEnergy Holdings LLC to NPAR LLC: 24/180 | AB Resources LLC & NPAR LLC to Chief Exploration & Development LLC & Radler 2000 LP: 24/466 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | NPAR LLC to Chevron USA Inc: 756/332 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 24/319 | Chevron USA Inc to Statoil USA Properties Inc: 30/494 | Chevron USA Inc to Chesapeake Appalachia LLC: 30/532 | Chesapeake Appalachia LLC to SWN Production Co LLC: 33/110 | Statoil USA Onshore Properties Inc to SWN Exchange Titleholder LLC: 33/424 | Cert of Merger: SWN Exchange Titleholder LLC into SWN Production Co LLC: 19/624 | SWN Production Co LLC to TH Exploration LLC: 36/431 | Statoil USA Onshore Properties Inc to TH Exploration LLC: 36/455 | |
| 10*28509 | 9-12-9 | EE | PEGGY ANNETTE GARDNER & ROBERT W GARDNER | TH EXPLORATION LLC | 1/8+ | 1073 348 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*28510 | 9-12-9 | EE | LINDA SUE BENNETT AND THOMAS BENNETT | TH EXPLORATION LLC | 1/8+ | 1073 350 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*28757 | 9-12-9 | EE | REBECCA LYNN RITZ AND THOMAS A RITZ | TH EXPLORATION LLC | 1/8+ | 1076 15 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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

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.

ASSIGNMENT AND CONVEYANCE

This Assignment and Conveyance (this "*Assignment*") is from STATOIL USA ONSHORE PROPERTIES INC., a Delaware corporation ("*Assignor*"), to TH Exploration, LLC, a Texas limited liability company ("*Assignee*"), and is executed on August 22, 2016 (the "*Effective Date*"). Assignor and Assignee may be referred to herein collectively as the "*Parties*," or individually as a "*Party*." Capitalized terms used herein but not otherwise defined herein (including in Section 3.7) shall have the meanings given such terms in that certain Acreage Trade Agreement between the Assignor and the Assignee dated June 19, 2016 (the "*Acreage Trade Agreement*").

ARTICLE 1 ASSIGNMENT OF ASSETS

Section 1.1 Assignment. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby GRANTS, BARGAINS, ASSIGNS, CONVEYS AND TRANSFERS unto Assignee all of Assignor's right, title and interest in and to (i) the oil and gas leases described in more detail on Exhibit A attached hereto (the "*Leases*") INsofar AND ONLY INsofar as they cover the Target Formations and INsofar AND ONLY INsofar as they cover those lands described on Exhibit A (the "*Leasehold Rights*") and (ii) any surface use agreements that relate to such Leasehold Rights (collectively with the Leasehold Rights, the "*Conveyed Assets*"). Assignor does hereby reserve unto itself the right and subsurface easement to drill through the Leasehold Rights to access the those depths and formations in the Leases other than the Target Formations and (y) to shoot seismic, sonic, or other energy or waves through the Leasehold Rights and to receive, record and evaluate such energy or waves, including those reflected from or in any way pertaining to the reserved depths, and to utilize any and all other exploration technologies that image the subsurface of the leasehold including the reserved depths and to receive, record and evaluate all images resulting therefrom.

TO HAVE AND TO HOLD the Conveyed Assets, together with all and singular the rights, privileges, contracts and appurtenances, in any way appertaining or belonging thereto, unto Assignee, its successors and assigns, forever, subject, to the terms and conditions of this Assignment.

Section 1.4 Assignment Subject to Acreage Trade Agreement. This Assignment is made in accordance with and is subject to the terms, covenants and conditions contained in that certain Acreage Trade Agreement. In the event of a conflict between the provisions of the Acreage Trade Agreement and this Assignment, the provisions of the Acreage Trade Agreement shall control. The execution and delivery of this Assignment by Assignor, and the execution and acceptance of this Assignment by Assignee, shall not operate to release or impair any surviving rights or obligations of either Party with respect to the other under the Acreage Trade Agreement.

ARTICLE 2 SPECIAL WARRANTY OF TITLE AND DISCLAIMERS

Section 2.1 Special Warranty of Title. Assignor hereby agrees to warrant and defend Defensible Title to the Leases unto Assignee, its successors and assigns, against every Person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Assignor or any of its Affiliates, but not otherwise.

Section 2.2 Disclaimers of Warranties and Representations.

(a) EXCEPT AS EXPRESSLY REPRESENTED OTHERWISE IN SECTION VI OF THE ACREAGE TRADE AGREEMENT OR THIS ASSIGNMENT, ASSIGNOR MAKES NO, AND HEREBY EXPRESSLY DISCLAIMS, ANY REPRESENTATION OR WARRANTY, EXPRESS, IMPLIED OR STATUTORY, INCLUDING AS TO (I) TITLE TO THE LEASEHOLD RIGHTS, (II) THE CONTENTS, CHARACTER OR NATURE OF ANY



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-11HU (H6A Drilling Modification)
Franklin District, Marshall County, WV**

Dear Susan:

Tug Hill Operating, LLC would like to submit the Hudson S-11HU 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

RECEIVED
Office of Oil and Gas

MAR 19 2020

WV Department of
Environmental Protection

Enclosures



Tug Hill Operating, LLC Casing and Cement Program

Hudson S-11HU

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" | 11,070' | CTS |
| Production | 5 1/2" | HCP110 | 8 1/2" | 25,605' | 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

VOID

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Office of Oil and Gas

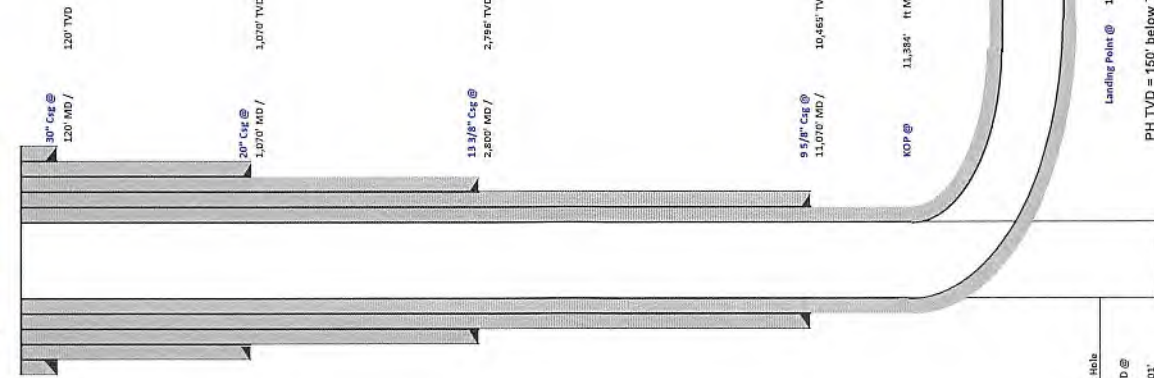
MAR 19 2020

WV Department of
Environmental Protection



WELL NAME: Hudson S-11HU
STATE: WV
DISTRICT: Meade
DF Elev: 1,344'
TD: 25,605'
TH Latitude: 39.8287
TH Longitude: -80.672714
BH Latitude: 39.799742
BH Longitude: -80.660108

VOID



| FORMATION TOPS | Depth TVD |
|---------------------|-----------|
| Deepest Fresh Water | 978' |
| Sewickley Coal | 886' |
| Pittsburgh Coal | 872' |
| Big Lime | 2,687' |
| Berea | 2,685' |
| Tully | 6,631' |
| Marcellus | 6,744' |
| Onondaga | 6,796' |
| Salina | 7,519' |
| Lockport | 8,528' |
| Utica | 11,350' |
| Point Pleasant | 11,618' |
| Landing Depth | 11,668' |
| Trenton | 11,751' |
| Pilot Hole TD | 11,901' |

| CASING SUMMARY | | | | | | |
|----------------|----------------|---------------|------------|-------------|----------------|--------|
| Type | Hole Size (in) | Csg Size (in) | Depth (MD) | Depth (TVD) | Weight (lb/ft) | Grade |
| Conductor | 36 | 30 | 120' | 120' | BW | BW |
| Surface | 26 | 20 | 1,070' | 1,070' | 106.5 | J55 |
| Intermediate 1 | 17 1/2 | 13 3/8 | 2,800' | 2,796' | 54.5 | J55 |
| Intermediate 2 | 12 1/4 | 9 5/8 | 11,070' | 10,465' | 47 | HPP110 |
| Production | 8 1/2 | 5 1/2 | 25,605' | 11,893' | 23 | HCP110 |

| CEMENT SUMMARY | | | | DRILLING DETAILS | |
|----------------|-------|-------|---------|------------------|---|
| Type | Sacks | Class | Density | Field Type | Centralizer Notes |
| Conductor | 338 | A | 15.6 | Air | None |
| Surface | 1,854 | A | 15.6 | Air | 3 Centralizers at equal distance |
| Intermediate 1 | 2,140 | A | 15 | Air | 1 Centralizer every other ft |
| Intermediate 2 | 2,892 | A | 14.5 | Air | 1 Centralizer every other ft |
| Production | 5,871 | A | 15 | Air / SOBMA | 1 every other joint in lateral; 1 per joint in curve; 1 every other ft to SIC |

0202/11/3
 2020

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MAR 19 2020
 WV Department of
 Environmental Protection

Landing Point @ 12,755' MD / 11,668' TVD
 PH TD @ 11,901'
 PH TVD = 150' below Trenton Top
 Lateral TD @ 25,605' ft MD
 11,893' ft TVD

18)

CASING AND TUBING PROGRAM

| TYPE | <u>Size (in)</u> | <u>New or Used</u> | <u>Grade</u> | <u>Weight per ft. (lb/ft)</u> | <u>FOOTAGE: For Drilling (ft)</u> | <u>INTERVALS: Left in Well (ft)</u> | <u>CEMENT: Fill-up (Cu. Ft.)/CTS</u> |
|--------------|------------------|--------------------|--------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| 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' | 1,975FT^3(CTS) |
| Intermediate | 9 5/8" | NEW | HPP110 | 47# | 11,070' | 11,070' | 3,606FT^3(CTS) |
| Production | 5 1/2" | NEW | P110 | 23# | 25,605' | 25,605' | 5,937FT^3(CTS) |
| Tubing | 2 7/8" | NEW | P110 | 6.5# | | 11,884' | |
| Liners | | | | | | | |

Ju
3/10/20

| TYPE | <u>Size (in)</u> | <u>Wellbore Diameter (in)</u> | <u>Wall Thickness (in)</u> | <u>Burst Pressure (psi)</u> | <u>Anticipated Max. Internal Pressure (psi)</u> | <u>Cement Type</u> | <u>Cement Yield (cu. ft./k)</u> |
|--------------|------------------|-------------------------------|----------------------------|-----------------------------|---|--------------------|---------------------------------|
| 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 | | | | | | | |

VOID

PACKERS

| | | | | | |
|-------------|-----|--|--|--|--|
| Kind: | N/A | | | | RECEIVED Office of Oil and Gas MAR 19 2020 WV Department of Environmental Protection |
| Sizes: | N/A | | | | |
| Depths Set: | N/A | | | | |

**HUDSON S LEASE
UTICA UNIT - 518.04 AC±
WELL 11HU
TUG HILL OPERATING**

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

VOID
T.H.
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 |
| 9-5-6 | NANCY L. SNYDER (LIFE ESTATE) | 82.858 |
| 9-5-6.1 | JON B. CRAWFORD | 4.679 |
| 9-5-6.9 | CNX LAND CO. LLC | 22.39 |
| 9-5-7 | ME CHURCH | 81.5 POLES (6 AC. ASSD) |
| 9-5-8.1 | ISACC McKINNEY, ET UX | 2.875 |
| 9-5-8.2 | MISTY CROW W/ ROBERT & ELSIE WHETZEL (LIFE ESTATE) | 1.973 |
| 9-5-11.1 | MARK H. FOX | 2.619 |
| 9-5-11.3 | MARK H. FOX | 1.94 |
| 9-5-13 | SHELLY ANN JORDAN | 5.51 |
| 9-5-14.1 | SAVANNA N & MATTHEW WEST | 2.819 |
| 9-5-14.4 | BETTY R. OTT | 10.501 |
| 9-5-16 | LARRY L. CONKLE, JR. | 2.365 |
| 9-5-16.1 | SCOTT A. HOSTUTLER | 0.142 |
| 9-5-21 | RALPH E. WELLMAN, ET UX | 1.00 |
| 9-5-22 | RALPH E. WELLMAN, ET UX | 0.5 |
| 9-7-9 | CNX LAND CO. LLC | 2.00 |
| 9-7-10 | DONALD M. & THERESA L. HARRIS | 3.00 |
| 9-7-11.1 | WV DEPT. OF HIGHWAYS | 3.63 |
| 9-7-27 | LOGAN M TOLER & ASHLEY N. BERARDI | 1.005 |
| 9-7-28 | VICTOR & CLAIRE CAMERON | 1.983 |
| 9-7-28.1 | NATHAN WILLIAMS | 2.768 |
| 9-8-1 | CNX LAND CO. LLC | 2.908 |
| 9-8-2 | CNX LAND CO. LLC | 6000 SQ. FT. |

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 486,104.49 E. 1,639,156.22
 NAD'83 GEO. LAT-(N) 39.828700 LONG-(W) 80.672714
 NAD'83 UTM (M) N. 4,408,796.11 E. 528,006.75
LANDING POINT
 NAD'83 S.P.C.(FT) N. 486,747.8 E. 1,636,321.9
 NAD'83 GEO. LAT-(N) 39.830364 LONG-(W) 80.682835
 NAD'83 UTM (M) N. 4,408,977.7 E. 527,140.0
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 475,511.3 E. 1,642,560.1
 NAD'83 GEO. LAT-(N) 39.799742 LONG-(W) 80.660108
 NAD'83 UTM (M) N. 4,405,586.2 E. 529,097.7

VOID

1,688' T.H.
12,236' B.H.

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-11HU (47-051-02296) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF HUDSON S-12HU (47-051-02292), HUDSON S-13HU (47-051-02293), PROPOSED HUDSON S-14HU, PROPOSED HUDSON S-15HU, PROPOSED HUDSON S-16HU, TEN HIGH 1N-13HU (47-051-01965), TEN HIGH 1N-20HU (47-051-02021), TEN HIGH 1S-16HU (47-051-02028), TEN HIGH 1S-17HU (47-051-02033), PROPOSED FITZGERALD S-17HU, PROPOSED FITZGERALD S-18HU, PROPOSED FITZGERALS S-19HU.
- 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.

B.H.

REFERENCES



12 Vankorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.3534
 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 10/18/19, 11/07/19, 01/08/20, 01/27/20, 03/18/20
 OPERATORS WELL NO. HUDSON S-11HU
 API WELL NO. 47 - 051 - 02296
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P11HUR5.dwg
HUDSON S-11HU 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 LIQUID 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 WV-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: 11,901' / TMD: 25,605'

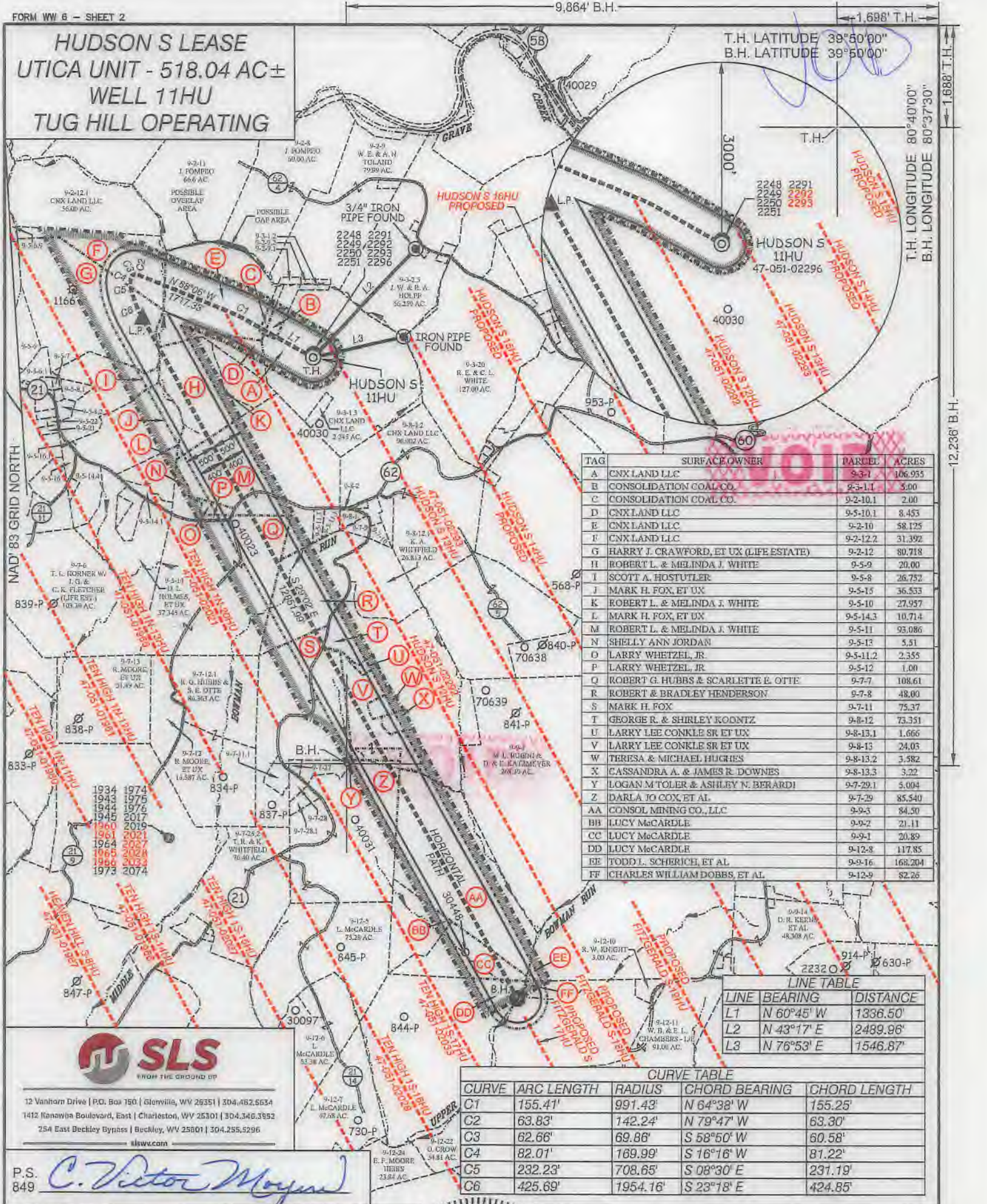
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
 FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

**HUDSON S LEASE
UTICA UNIT - 518.04 AC±
WELL 11HU
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"



| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|--|----------|---------|
| A | CNX LAND LLC | 9-3-7 | 106.935 |
| B | CONSOLIDATION COAL CO. | 9-3-11 | 3.00 |
| C | CONSOLIDATION COAL CO. | 9-2-10-1 | 2.00 |
| D | CNX LAND LLC | 9-5-10-1 | 8.453 |
| E | CNX LAND LLC | 9-2-10 | 58.125 |
| F | CNX LAND LLC | 9-2-12-2 | 31.392 |
| G | HARRY J. CRAWFORD, ET UX (LIFE ESTATE) | 9-2-12 | 80.718 |
| H | ROBERT L. & MELINDA J. WHITE | 9-5-9 | 20.00 |
| I | SCOTT A. HOSTUTLER | 9-5-8 | 26.752 |
| J | MARK H. FOX, ET UX | 9-5-15 | 36.533 |
| K | ROBERT L. & MELINDA J. WHITE | 9-5-10 | 27.957 |
| L | MARK H. FOX, ET UX | 9-5-14-3 | 10.714 |
| M | ROBERT L. & MELINDA J. WHITE | 9-5-11 | 93.086 |
| N | SHELLY ANN JORDAN | 9-5-13 | 5.51 |
| O | LARRY WHETZEL, JR. | 9-5-11-2 | 2.355 |
| P | LARRY WHETZEL, JR. | 9-5-12 | 1.00 |
| Q | ROBERT G. HUBBS & SCARLETT E. OTTE | 9-7-7 | 108.61 |
| R | ROBERT & BRADLEY HENDERSON | 9-7-8 | 48.00 |
| S | MARK H. FOX | 9-7-11 | 75.37 |
| T | GEORGE R. & SHIRLEY KOONTZ | 9-8-12 | 73.551 |
| U | LARRY LEE CONKLE SR ET UX | 9-8-13-1 | 1.666 |
| V | LARRY LEE CONKLE SR ET UX | 9-8-13 | 24.03 |
| W | TERESA & MICHAEL HUGHES | 9-8-13-2 | 3.582 |
| X | CASSANDRA A. & JAMES R. DOWNES | 9-8-13-3 | 3.22 |
| Y | LOGAN M TOLER & ASHLEY N. BERARDI | 9-7-29-1 | 5.004 |
| Z | DARLA JO COX, ET AL. | 9-7-29 | 85.540 |
| AA | CONSOL MINING CO., LLC | 9-9-3 | 84.50 |
| BB | LUCY McCARDLE | 9-9-2 | 21.11 |
| CC | LUCY McCARDLE | 9-9-1 | 20.89 |
| DD | LUCY McCARDLE | 9-12-8 | 117.85 |
| EE | TODD L. SCHERICH, ET AL | 9-9-16 | 168.204 |
| FF | CHARLES WILLIAM DOBBS ET AL | 9-12-9 | 82.26 |

LINE TABLE

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 60°45' W | 1338.50' |
| L2 | N 43°17' E | 2489.96' |
| L3 | N 76°53' E | 1546.87' |

CURVE TABLE

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|----------|---------------|--------------|
| C1 | 155.41' | 991.43' | N 64°38' W | 155.25' |
| C2 | 63.83' | 142.24' | N 79°47' W | 63.30' |
| C3 | 62.66' | 69.86' | S 58°50' W | 60.58' |
| C4 | 82.01' | 169.99' | S 16°16' W | 81.22' |
| C5 | 232.23' | 708.65' | S 08°30' E | 231.19' |
| C6 | 425.69' | 1954.16' | S 23°18' E | 424.85' |



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 25351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3852
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsv.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
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8911P11HUR5.dwg
HUDSON S-11HU REV6
DATE AUGUST 23, 2019
REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20, 03/18/20
OPERATORS WELL NO. HUDSON S-11HU
API WELL NO. 47-051-02296
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 - 518.04 AC ±
WELL 11HU
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.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*26044 | 9-3-1.1 | B | JOYCE A WALLACE, ET AL | 863 | 296 |
| 3 | 10*26711 | 9-2-10.1 | C | CNX GAS COMPANY LLC | 1039 | 1 |
| 4 | 10*26001 | 9-5-10.1 | D | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 5 | 10*26001 | 9-2-10 | E | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 6 | 10*26000 | 9-2-12.2 | F | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | 661 | 156 |
| 7 | 10*26000 | 9-2-12 | G | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | 661 | 156 |
| 8 | 10*26001 | 9-5-9 | H | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 9 | 10*19206 | 9-5-8 | I | SCOTT A HOSTUTLER | 724 | 208 |
| 10 | 10*19005 | 9-5-15 | J | MARK H. FOX AND RETTA J. FOX, HIS WIFE | 687 | 598 |
| 11 | 10*26001 | 9-5-10 | K | FREDDIE C WHITE AND VIOLET L WHITE | 655 | 555 |
| 12 | 10*19005 | 9-5-14.3 | L | MARK H. FOX AND RETTA J. FOX, HIS WIFE | 687 | 598 |
| 13 | 10*24424 | 9-5-11 | M | THE FAYE A SKOJEN REVOCABLE TRUST, ET AL | 1024 | 291 |
| 14 | 10*26002 | 9-5-13 | N | GEORGIA JORDAN LIFE ESTATE AND SHELLEY ANN JORDAN REMAINDERMAN | 687 | 616 |
| 15 | 10*24424 | 9-5-11.2 | O | THE FAYE A SKOJEN REVOCABLE TRUST, ET AL | 1024 | 291 |
| 16 | 10*47051.188.0 | 9-5-12 | P | LARRY J WHETZEL JR | 869 | 216 |
| 17 | 10*15503 | 9-7-7 | Q | ROBERT HUBBS | 677 | 521 |
| 18 | 10*26003 | 9-7-8 | R | ROBERT HENDERSON AND DEBRA HENDERSON, HUSBAND & WIFE, AND BRADLEY HENDERSON | 697 | 215 |
| 19 | 10*47051.094.0 | 9-7-11 | S | MARK H FOX | 864 | 163 |
| 20 | 10*47051.208.0 | 9-8-12 | T | SHIRLEY KOONTZ POA KELLI KOONTZ BENUNE | 869 | 222 |
| 21 | N/A | 9-8-13.1 | U | LARRY L CONKLE AND DONNA D CONKLE, HUSBAND AND WIFE | 1068 | 299 |
| 22 | N/A | 9-8-13 | V | LARRY L CONKLE AND DONNA D CONKLE, HUSBAND AND WIFE | 1068 | 299 |
| 23 | 10*47051.150.1 | 9-8-13.2 | W | MICHAEL J HUGHES & TERESA A HUGHES | 866 | 309 |
| 24 | N/A | 9-8-13.3 | X | LARRY L CONKLE AND DONNA D CONKLE, HUSBAND AND WIFE | 1068 | 299 |
| 25 | 10*15524 | 9-7-29.1 | Y | CAROL J ANDERSON ETAL | 901 | 563 |
| 26 | 10*15524 | 9-7-29 | Z | CAROL J ANDERSON ETAL | 901 | 563 |
| 27 | 10*47051.304.0 | 9-9-3 | AA | UNITED BANK INC | 905 | 5 |
| 28 | 10*23386 | 9-9-2 | BB | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER, ET AL | 1008 | 68 |
| 29 | 10*23386 | 9-9-1 | CC | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER, ET AL | 1008 | 68 |
| 30 | 10*47051.289.1 | 9-12-8 | DD | JANICE M HIXSON AND HARRY C HIXSON, ET AL | 898 | 461 |
| 31 | 10*19987 | 9-9-16 | EE | LESLEY D BALLA, ET AL | 955 | 103 |
| 32 | 10*15999 | 9-12-9 | FF | CHARLES W DOBBS ET AL | 702 | 171 |

VOID

FILE NO. 8911P11HUR5.dwg
HUDSON S-11HU REV6

DATE AUGUST 23, 20 19

REVISED 10/18/19, 11/07/19, 01/08/20, 01/27/20, 03/18/20

OPERATORS WELL NO. HUDSON S-11HU

API WELL NO. 47 — 051 — 02296
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

**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)**

VOLD

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


**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 

Its: Permitting Specialist - Appalachia Region

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

| Lease ID | Parcel | Tags | Grantor, Lessor, Etc. | Grantor, Lessee, Etc. | Royalty | Deed Book/Page | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | Assignment | | | |
|----------|--------|------|---|---------------------------|---------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|---|--|--|
| 10*26041 | 9-3-1 | A | FREDRICK C WHITE AND VIOLET L WHITE | CHESAPEAKE APPALACHIA LLC | 1/8+ | 728 527 | N/A | N/A | N/A | N/A | N/A | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/A | 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 | N/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*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 | N/A | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 | |
| 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 | N/A | 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*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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 JFAN 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 | 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 | 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*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 | 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 D 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 | 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 | 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 | 509 | N/A | N/A | N/A | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 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 | 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 | 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 | 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 | 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 | 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/1 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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+ | 854 | 50 | N/A | N/A | N/A | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 SIEGER | 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 | 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 | 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 | 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 | 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 | 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 | 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 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 | 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 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 | 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 | 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 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26044 | 9-3-1.1 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |

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| 10*26048 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26056 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26065 | 9-3-1.1 | B | DENNIS F MOORE JOLENE A MOORE | CHEVRON USA INC | 1/8+ | 857 | 646 | N/A | N/A | N/A | 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*26066 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |

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| 10*26057 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | SHARON DIANE HOLMES JAHN AND WILLIAM HENRY JAHN II - 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |

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| 10*26086 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26087 | 9-6-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |
| 10*26100 | 9-3-1.1 | B | 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 | 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 | B | JAMES D AND LINDA D YOCCUM | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 |

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| 10*26287 | 9-3-1.1 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | 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 | B | 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 | N/A | N/A | N/A | N/A |
| 10*27180 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*27181 | 9-3-1.1 | B | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*27703 | 9-3-1.1 | B | DOROTHY MAXINNE MOORE TRUST | 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 | N/A | N/A | N/A | N/A | N/A |
| 10*26711 | 9-2-10.1 | 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 | N/A | N/A | N/A | N/A |
| 10*26001 | 9-5-10.1 | D | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY, INC. | 1/8+ | 655 | 555 | N/A | N/A | N/A | N/A | 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*26001 | 9-2-10 | E | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY, INC. | 1/8+ | 655 | 555 | N/A | N/A | N/A | N/A | 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*26000 | 9-2-12.2 | F | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | TRIENERGY, INC. | 1/8+ | 661 | 156 | N/A | N/A | N/A | TriEnergy Inc to AB Resources LLC: 20/252 | AB Resources LLC to Chief Exploration & Development LLC: 666/40 | TriEnergy Inc to TriEnergy Holdings LLC: 21/148 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 21/319 | 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*26000 | 9-2-12 | G | HARRY J CRAWFORD AND DONNA JEAN CRAWFORD, LIFE ESTATE, ET AL | TRIENERGY, INC. | 1/8+ | 661 | 156 | N/A | N/A | N/A | TriEnergy Inc to AB Resources LLC: 20/252 | AB Resources LLC to Chief Exploration & Development LLC: 666/40 | TriEnergy Inc to TriEnergy Holdings LLC: 21/148 | AB Resources LLC to Chief E&D LLC & Radler 2000 LP: 21/319 | 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 | |

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| 10*26001 | 9-5-9 | M | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY, INC. | 1/8+ | 655 | 555 | N/A | N/A | N/A | N/A | 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, Radler 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*19206 | 9-5-8 | I | SCOTT A HOSTUTLER | TRIENERGY HOLDINGS, LI | 1/8+ | 724 | 208 | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 25/463 | NPAR LLC to Chevron USA Inc: 26/269 | NPAR LLC to Chevron USA Inc: 756/307 | NPAR LLC to Chevron USA Inc: 800/236 | Chevron USA Inc to TH Exploration LLC: 40/127 | Chevron USA Inc to TH Exploration LLC: 42/435 | Chevron USA Inc to TH Exploration LLC: 43/95 | |
| 10*19005 | 9-5-15 | J | MARK H. FOX AND RETTA J. FOX, HIS WIFE | TRIENERGY HOLDINGS, LI | 1/8+ | 667 | 598 | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 23/74 | AB Resources & NPAR LLC to Chief Exploration & Development LLC and Radler 2000 LP: 24/490 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | NPAR LLC to Chevron USA Inc: 756/332 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | Chevron USA Inc to TH Exploration LLC: 40/127 | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 | |
| 10*26001 | 9-5-10 | K | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY, INC. | 1/8+ | 655 | 555 | N/A | N/A | N/A | N/A | 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, Radler 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*19005 | 9-5-14-3 | L | MARK H. FOX AND RETTA J. FOX, HIS WIFE | TRIENERGY HOLDINGS, LI | 1/8+ | 667 | 598 | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 23/74 | AB Resources & NPAR LLC to Chief Exploration & Development LLC and Radler 2000 LP: 24/490 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | NPAR LLC to Chevron USA Inc: 756/332 | TriEnergy Holdings LLC & TriEnergy Inc to Chevron USA Inc: 28/356 | Chevron USA Inc to TH Exploration LLC: 40/127 | Chevron USA Inc to TH Exploration II LLC & TH Exploration LLC: 43/95 | |
| 10*24424 | 9-5-11 | M | THE FAYE A SKOJEN REVOCABLE TRUST | TH EXPLORATION LLC | 1/8+ | 1024 | 291 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24578 | 9-5-11 | M | FRANK E WHITMAN JR AND GAYLE WHITMAN | TH EXPLORATION LLC | 1/8+ | 1026 | 241 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27907 | 9-5-11 | M | IGSIE FAUST | TH EXPLORATION LLC | 1/8+ | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27909 | 9-5-11 | M | JONATHAN FAUST | TH EXPLORATION LLC | 1/8+ | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27911 | 9-5-11 | M | DIANE BONAR | TH EXPLORATION LLC | 1/8+ | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27913 | 9-5-11 | M | MINA BELROSE BONAR | TH EXPLORATION LLC | 1/8+ | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27915 | 9-5-11 | M | GARY THOMAS WILLIAMSON JR. | TH EXPLORATION LLC | 1/8+ | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*24973 | 9-5-11 | M | IVA K BONAR | TH EXPLORATION LLC | 1/8+ | 1028 | 577 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*26001 | 9-5-11 | M | FREDDIE C WHITE AND VIOLET L WHITE | TRIENERGY, INC. | 1/8+ | 655 | 555 | N/A | N/A | N/A | N/A | 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, Radler 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*26096 | 9-5-11 | M | GRACE LAURA BONAR | CHEVRON USA INC | 1/8+ | 865 | 198 | N/A | N/A | N/A | N/A | 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*26101 | 9-5-11 | M | BARBARA LOIS HADLEY | CHEVRON USA INC | 1/8+ | 868 | 21 | N/A | N/A | N/A | N/A | 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*26102 | 9-5-11 | M | JOHN WILLIAM GRAVES AND OLIVIA MAE GRAVE | CHEVRON USA INC | 1/8+ | 871 | 391 | N/A | N/A | N/A | N/A | 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*26103 | 9-5-11 | M | ROBERT GLENN BONAR | CHEVRON USA INC | 1/8+ | 868 | 92 | N/A | N/A | N/A | N/A | 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*26104 | 9-5-11 | M | JAMES MCPHERSON SCHILLING | CHEVRON USA INC | 1/8+ | 868 | 202 | N/A | N/A | N/A | N/A | 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*26105 | 9-5-11 | M | LESTER D FAUST | CHEVRON USA INC | 1/8+ | 870 | 560 | N/A | N/A | N/A | N/A | 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*26106 | 9-5-11 | M | RICHARD CHRIS BOGATKO | CHEVRON USA INC | 1/8+ | 870 | 557 | N/A | N/A | N/A | N/A | 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*26128 | 9-5-11 | M | WILLIAM A BRUNNER JR AND JOYCE A BRUNNER | CHEVRON USA INC | 1/8+ | 888 | 30 | N/A | N/A | N/A | N/A | 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*26129 | 9-5-11 | M | MARJORIE JARETTA FAUST | CHEVRON USA INC | 1/8+ | 888 | 10 | N/A | N/A | N/A | N/A | 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*26167 | 9-5-11 | M | FRANK B DAY | CHEVRON USA INC | 1/8+ | 871 | 583 | N/A | N/A | N/A | 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*26201 | 9-5-11 | M | IDEN SCOTT MCWHORTER | CHEVRON USA INC | 1/8+ | 888 | 21 | N/A | N/A | N/A | 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*26202 | 9-5-11 | M | LOTA JO MITCHELL AND DAVID S MITCHELL | CHEVRON USA INC | 1/8+ | 888 | 27 | N/A | N/A | N/A | 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*26306 | 9-5-11 | M | DAVID L BONAR | CHEVRON USA INC | 1/8+ | 890 | 475 | N/A | N/A | N/A | 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*26308 | 9-5-11 | M | HARRY A SALO AND BETTY A SALO | CHEVRON USA INC | 1/8+ | 894 | 395 | N/A | N/A | N/A | 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*26309 | 9-5-11 | M | STEVEN ALAN ARMIGER | CHEVRON USA INC | 1/8+ | 891 | 69 | N/A | N/A | N/A | 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*26310 | 9-5-11 | M | KATHERINE ANN LUONGO FAIRBROTHER | CHEVRON USA INC | 1/8+ | 901 | 38 | N/A | N/A | N/A | 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*26313 | 9-5-11 | M | JOSEPH M DURINSKY | CHEVRON USA INC | 1/8+ | 893 | 244 | N/A | N/A | N/A | 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*26314 | 9-5-11 | M | ROBIN KACHELE | CHEVRON USA INC | 1/8+ | 893 | 180 | N/A | N/A | N/A | 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*26337 | 9-5-11 | M | KATHLEEN ELAINE ALEXANDRA SHIREY | CHEVRON USA INC | 1/8- | 901 | 134 | N/A | N/A | N/A | 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*26345 | 9-5-11 | M | SHARON LOUISE EVANS | CHEVRON USA INC | 1/8+ | 915 | 597 | N/A | N/A | N/A | 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*26806 | 9-5-11 | M | JASON R FREID | TH EXPLORATION LLC | 1/8+ | 1045 | 457 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 10*27483 | 9-5-11 | M | SARI FAUST | CHEVRON USA INC | 1/8+ | 876 | 490 | N/A | N/A | N/A | 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*27496 | 9-5-11 | M | RICHARD SCOTT WILLIAMSON | CHEVRON USA INC | 1/8+ | 888 | 24 | N/A | N/A | N/A | 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*27501 | 9-5-11 | M | ELEANOR MARGO MORRIS | CHEVRON USA INC | 1/8+ | 882 | 472 | N/A | N/A | N/A | 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*27502 | 9-5-11 | M | BARBARA L BYRNE TRUSTEE OF THE JOINT REVOCABLE TRUST AGREEMENT DTD 5/23/2006 | CHEVRON USA INC | 1/8+ | 921 | 610 | N/A | N/A | N/A | 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*27504 | 9-5-11 | M | INTERNATIONAL WOMENS AIR AND SPACE MUSEUM INC | CHEVRON USA INC | 1/8+ | 907 | 41 | N/A | N/A | N/A | 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*27506 | 9-5-11 | M | FREDERICK ALLEN FAUST | CHEVRON USA INC | 1/8+ | 888 | 15 | N/A | N/A | N/A | 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*27509 | 9-5-11 | M | SANDRA PAPPA BY CYNTHIA HOLSTEIN | CHEVRON USA INC | 1/8+ | 913 | 1 | N/A | N/A | N/A | 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*26032 | 9-5-11.2 | N | GEORGIA JORDAN LIFE ESTATE AND SHELLY ANN JORDAN REMAINDERMAN | TRIENERGY HOLDINGS, LI | 1/8+ | 687 | 616 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | TriEnergy Holdings LLC to NPAR LLC: 23/74 | AB Resources & NPAR LLC to Chief Exploration & Development LLC and Radler 2000 LP: 24/490 | Chief E&D LLC, Chief O/G LLC, Radler 2000 LP & Enerplus to Chevron USA Inc: 25/1 & 25/105 | NPAR LLC to Chevron USA Inc: 756/332 | 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*24424 | 9-5-11.2 | O | THE FAYEA SKOEN REVOCABLE TRUST | TH EXPLORATION LLC | 1/8+ | 1024 | 291 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*24578 | 9-5-11.2 | O | FRANK E WHITMAN JR AND GAYLE WHITMAN | TH EXPLORATION LLC | 1/8+ | 1026 | 241 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27907 | 9-5-11.2 | O | JOSIE FAUST | TH EXPLORATION LLC | 1/8+ | PENDING | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27909 | 9-5-11.2 | O | JONATHAN FAUST | TH EXPLORATION LLC | 1/8+ | PENDING | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27911 | 9-5-11.2 | O | DIANE BONAR | TH EXPLORATION LLC | 1/8+ | PENDING | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27913 | 9-5-11.2 | O | MINA BELROSE BONAR | TH EXPLORATION LLC | 1/8+ | PENDING | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*27915 | 9-5-11.2 | O | GARY THOMAS WILLIAMSON JR. | TH EXPLORATION LLC | 1/8+ | PENDING | PENDING | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*24973 | 9-5-11.2 | O | IVA K BONAR | TH EXPLORATION LLC | 1/8+ | 1028 | 577 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 10*26096 | 9-5-11.2 | O | GRACE LAURA BONAR | CHEVRON USA INC | 1/8+ | 865 | 198 | N/A | N/A | N/A | N/A | 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*26101 | 9-5-11.2 | O | BARBARA LOIS HADLEY | CHEVRON USA INC | 1/8+ | 868 | 21 | N/A | N/A | N/A | N/A | 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*26102 | 9-5-11.2 | O | JOHN WILLIAM GRAVES AND OLIVIA MAE GRAVE | CHEVRON USA INC | 1/8+ | 871 | 391 | N/A | N/A | N/A | N/A | 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*26103 | 9-5-11.2 | O | ROBERT GLENN BONAR | CHEVRON USA INC | 1/8+ | 868 | 92 | N/A | N/A | N/A | N/A | 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*26104 | 9-5-11.2 | O | JAMES MCPHERSON SCHILLING | CHEVRON USA INC | 1/8+ | 868 | 202 | N/A | N/A | N/A | N/A | 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*26105 | 9-5-11.2 | O | LESTER D FAUST | CHEVRON USA INC | 1/8+ | 870 | 560 | N/A | N/A | N/A | N/A | 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*26106 | 9-5-11.2 | O | RICHARD CHRIS BOGATKO | CHEVRON USA INC | 1/8+ | 870 | 557 | N/A | N/A | N/A | N/A | 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*26128 | 9-5-11.2 | O | WILLIAM A BRUNNER JR AND JOYCE A BRUNNER | CHEVRON USA INC | 1/8+ | 888 | 30 | N/A | N/A | N/A | N/A | 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*26129 | 9-5-11.2 | O | MARJORIE JARETTA FAUST | CHEVRON USA INC | 1/8+ | 888 | 10 | N/A | N/A | N/A | N/A | 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*26167 | 9-5-11.2 | O | FRANK B DAY | CHEVRON USA INC | 1/8+ | 871 | 583 | N/A | N/A | N/A | N/A | 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*26201 | 9-5-11.2 | O | IDEN SCOTT MCWHORTER | CHEVRON USA INC | 1/8+ | 888 | 21 | N/A | N/A | N/A | N/A | 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*26202 | 9-5-11.2 | O | LOTA JO MITCHELL AND DAVID S MITCHELL | CHEVRON USA INC | 1/8+ | 888 | 27 | N/A | N/A | N/A | N/A | 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*26306 | 9-5-11.2 | O | DAVID L BONAR | CHEVRON USA INC | 1/8+ | 890 | 475 | N/A | N/A | N/A | N/A | 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*26308 | 9-5-11.2 | O | HARRY A SALO AND BETTY A SALO | CHEVRON USA INC | 1/8+ | 894 | 395 | N/A | N/A | N/A | N/A | 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*26309 | 9-5-11.2 | O | STEVEN ALAN ARMIGER | CHEVRON USA INC | 1/8+ | 891 | 69 | N/A | N/A | N/A | N/A | 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*26310 | 9-5-11.2 | O | KATHERINE ANN LUONGO FAIRBROTHER | CHEVRON USA INC | 1/8+ | 901 | 38 | N/A | N/A | N/A | N/A | 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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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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Environmental Protection

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