



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

Wednesday, November 20, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit Modification Approval for FREELAND M08H
47-051-02154-00-00

Modified Lateral, Attained Additional Leases

CHEVRON APPALACHIA, 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 blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: FREELAND M08H
Farm Name: JOSEPH L. FREELAND ET UX
U.S. WELL NUMBER: 47-051-02154-00-00
Horizontal 6A New Drill
Date Modification Issued: November 20, 2019

Promoting a healthy environment.

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

1) Well Operator: Chevron Appalachia, LLC 49449935 Marshall Clay Powhatan Point, WV
Operator ID County District Quadrangle

2) Operator's Well Number: M08H Well Pad Name: Freeland

3) Farm Name/Surface Owner: Freeland Public Road Access: CR 21 Robert Ridge Road

4) Elevation, current ground: 1274' Elevation, proposed post-construction: 1275'

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):
Marcellus, 6370' below GL, 50' thick; Pore Pressure Gradient 0.64 psi/ft 4676 psi

8) Proposed Total Vertical Depth: 6,369

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,184

11) Proposed Horizontal Leg Length: 16,330

12) Approximate Fresh Water Strata Depths: 572' below GL

13) Method to Determine Fresh Water Depths: Based on deepest water well within 2 mile radius

14) Approximate Saltwater Depths: 1709', 1789', 2120' below GL

15) Approximate Coal Seam Depths: Pittsburgh Coal top 794' below GL

16) Approximate Depth to Possible Void (coal mine, karst, other): No Void - In solid coal pillar

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

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

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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	20	New	X52	78.67	40	40	CTS
Fresh Water	13.375	New	J-55	54.5	622	622	CTS
Coal							
Intermediate	9.625	New	J-55	40	2,170	2,170	CTS
Production	5.5	New	P110	20	23,184	23,184	(500' below 9.625" shoe)
Tubing							
Liners							

me
10/21/19

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	20	26	0.375"				
Fresh Water	13.375	17.5	0.38	2,730	400	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	3,950	500	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14,360	2050	Class A, G, or H	1.25
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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10/21/18

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

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,369 feet. Drill horizontal leg.

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

9525 bbl fluid - 400,000 lbm sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.2

22) Area to be disturbed for well pad only, less access road (acres): 5.0

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

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

For the Water String the blend will contain class A cement, 3% CaCl₂, and flake. The intermediate will contain class A cement, 3% CaCl₂, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Air sections ensured to be clean via air circulation once TD is reached. Fluid sections will be circulated a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties are achieved.

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*Note: Attach additional sheets as needed.



Freeland M08H

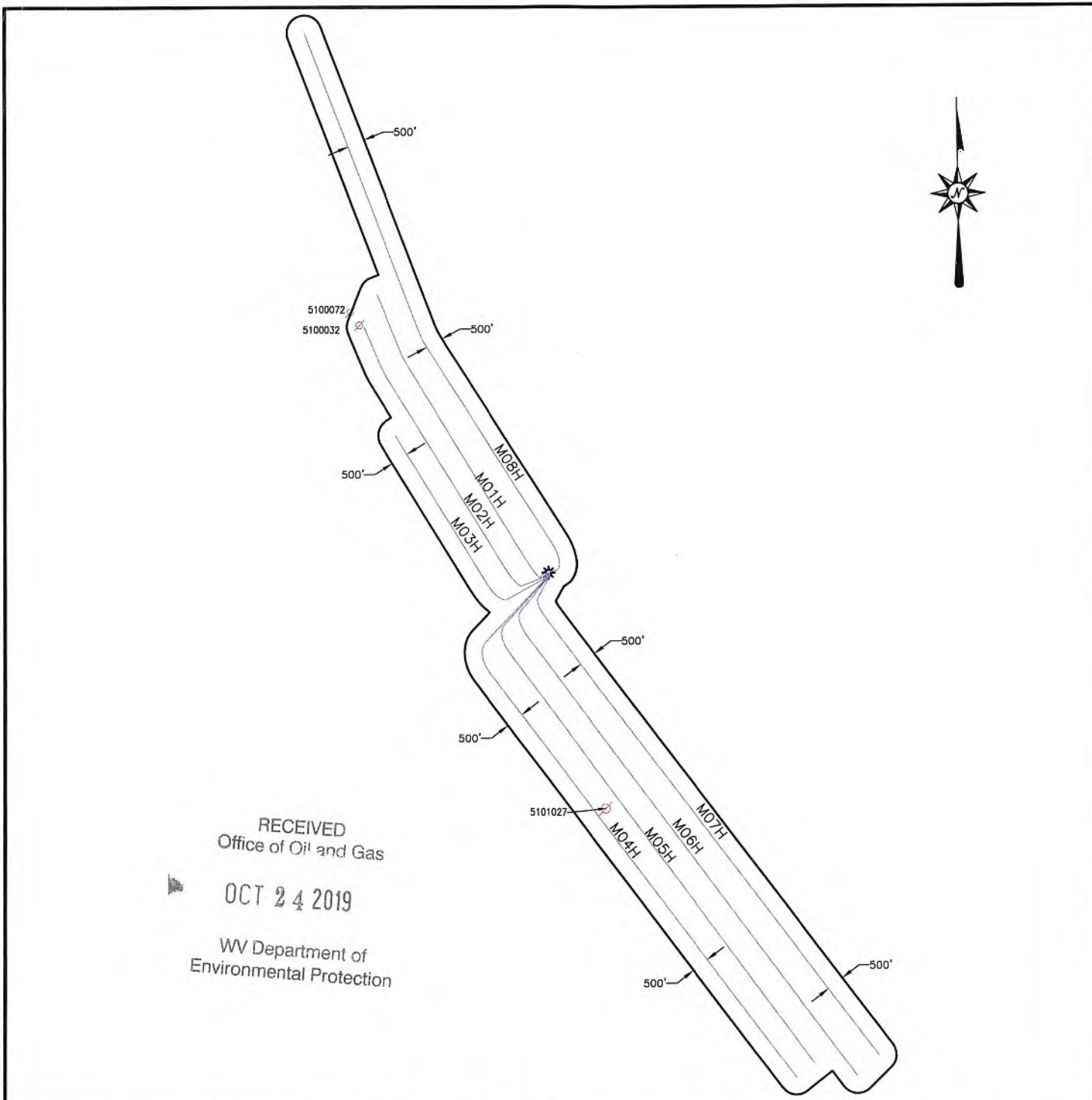
Clay Twp, Marshall Co, WV		Ground Level Elev. (ft above SL):		1,274				
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN	HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)				
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	40	40	INC AZM	30	<u>Conductor</u> 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	13-3/8" Casing	622	622		17.5	<u>Surface Casing</u> 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	<u>Surface Blend (Class A)</u> Cement to Surface Minimum 50 ft past deepest known fresh water
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	2,170	2,170		12.375 - 12.25	<u>Intermediate Casing</u> 9-5/8" 40# J-55 BTC Wall (in) 0.395 Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 3950 Collapse (psi) 2570 Yield (Jt Strength 1,000 lbs) 630	<u>Intermediate II Blend (Class A)</u> Cement to Surface
	Bow Spring: (1) per every other jt over coupling SpiraGlider or Centek: (1) per jt of csg to KOP Float Equip. Float Equip.	5-1/2" Casing	23,184			8.75 - 8.5	<u>Production Casing</u> 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	<u>Production Lead Slurry</u> Cement to 500' below 9-5/8" shoe <u>Production Tail Slurry</u> TOC minimum 200' above Marcellus

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10/20/19



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CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 • FAX (304) 624-7831

PREPARED FOR:
 CHEVRON APPALACHIA, LLC
 700 CHERRINGTON PARKWAY
 CORAOPOLIS, PA 15108

LEGEND
 - WELL LOCATION
 - PLUGGED WELL
 - ABANDON WELL

**FREELAND
 AREA OF REVIEW MAP
 MARSHALL COUNTY
 CLAY DISTRICT
 WEST VIRGINIA**

TOPO QUAD: POWHATAN POINT, WV
 SCALE: 1" = 4000'
 DATE: OCTOBER 11, 2019

51-02154
MOO

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-00072	Wasmuth-Callahan Gas Co.	Operator Unknown	ABANDONED	39.887867	-80.781834	N/A	N/A	None
47-051-00032	R. L. McDowdell	Operator Unknown	ABANDONED	39.886851	-80.780892	N/A	N/A	None
47-051-01027	CNX Gas Company	CNX Gas Company LLC	ABANDONED	39.849249	-80.75489	N/A	N/A	None

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SI-02154MOD

WW-6A1
(5/13)

Operator's Well No. M08H

**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				


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**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: Chevron Appalachia, LLC
 By: Branden Weimer 
 Its: Senior Permitting Advisor



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Environmental Protection

Chevron

Appalachian LLC
WV Well Site Safety Plan
Pad: Freeland Pad A

JW
10/21/19

Well # M08H

3599 Roberts Ridge Rd
Moundsville, WV 26041
Clay District
Marshall County, WV

Access Point – [39.865278°N, 80.758511°W]

Well Site – [39.867578°N, 80.761275°W]

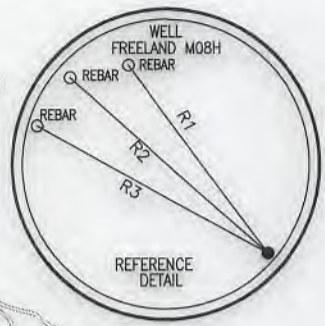
Marshall County, West Virginia

Revised 12/5/2018: Casing and Cementing Info

02/18/2019: H2S Notification

**10/16/2019: Collision Avoidance, Casing and Cementing Info, Lateral Extension, Update
Contacts**

FREELAND M08H PAGE 2 OF 3



LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- DETAIL

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

LINE	BEARING	DISTANCE
R1	N 38°47'53" W	222.99'
R2	N 48°35'51" W	252.06'
R3	N 61°09'58" W	251.55'
R4	N 41°51'57" W	1666.20'
R5	S 19°20'38" E	1814.44'
R6	S 63°09'48" W	1236.45'

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4413099.21
E:520444.55
NAD83, WV NORTH
N:500639.840
E:1614576.900

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4413349.60
E:520456.39
NAD83, WV NORTH
N:501460.850
E:1614629.510

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4417762.32
E:518211.11
NAD83, WV NORTH
N:516064.380
E:1607503.590

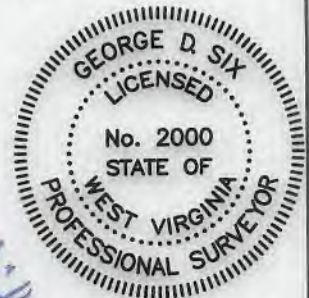
- NOTES:**
1. There are no water wells or developed springs within 250' of proposed well.
 2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 3. There are no native trout streams within 300' of proposed well.
 4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 6. There are no existing buildings within 625' of proposed well.

API WELL #: 47 51 D2154MOD
 STATE COUNTY PERMIT

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OCTOBER 17, 2019

George D. Six



CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 FAX (304) 624-7931

BHL is located on topo map 2,519 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 2,664 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR LESSORS



BHL is located on topo map 10,361 feet west of Longitude: 80° 45' 00"
 SHL is located on topo map 3,074 feet west of Longitude: 80° 45' 00"

	SURFACE OWNER	DIST-TM/PAR
1	JOSEPH L. FREELAND ET UX	4-7/21
2	CHARLES L. THIELE ET UX	4-7/23.12
3	JOHN K. & NANCY LOU MASON	4-7/7
4	MICHAEL WILLIAM YOUNG	4-7/5.5
5	NATHAN E. & NICOLE WOOD	4-7B/46
6	*NATHAN E. & NICOLE WOOD	4-7B/21
7	NATHAN E. & NICOLE WOOD	4-7B/20
8	MICHAEL WILLIAM YOUNG	4-7B/22
9	MARK R. SMITH	4-7B/5
10	*MARY K. YOUNGER-HARBERT & BRANT LEE HARBERT	4-7B/12
11	ROBERT TODD ANKROM ET UX	4-7/5.3
12	KELLER FAMILY TRUST	4-5/75
13	LANE P. & TONI L. RINE	4-5/73
14	FLOYD W. BOLEN ET UX ESTS	4-6/12
15	ROBERT W. ASTON	4-6/13
16	KRISTIN CROWTHER THACHER	4-6/15
17	KRISTIN CROWTHER THACHER	4-6/16
18	JAMES PARKS MILLER ET AL	4-1/38
19	KITTLE HAULING & SUPPLY CO	4-1/55.11
20	STALEY WIRELESS LP	4-1/55
21	FRANK J. SCANDINARO	4-1/55.9
22	CHARLES D. ENGLE	4-1/28
23	TERRI L. JOHNSON	4-1/55.13
24	RUSTY E. & TERRI JO MERCER	4-1/17

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* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

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 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 FAX (304) 624-7631

FILE #: FREELAND M08H
 DRAWING #: FREELAND M08H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: OCTOBER 17, 2019
 OPERATOR'S WELL #: FREELAND M08H
 API WELL #: 47 51 02154 MOD
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

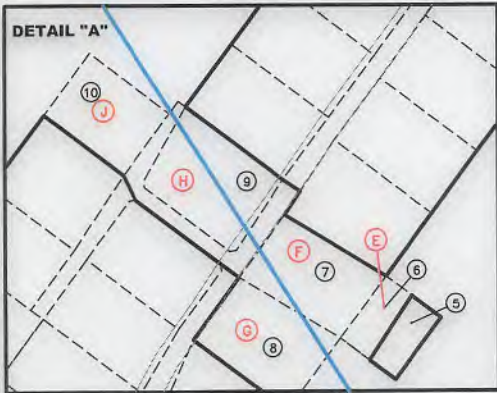
WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1274.00'
 COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWHATAN POINT, WV 7.5'
 SURFACE OWNER: JOSEPH L. FREELAND ET UX ACREAGE: 104.22±
 OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX ACREAGE: 977.616±
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE
 (SPECIFY): _____
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,369'± TMD: 23,184'±
 WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

FREELAND

M08H

PAGE 3 OF 3

	LESSOR	DIST-TM/PAR
A	JOSEPH FREELAND ET UX	4-7/21
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C	JOHN K. MASON SR., ET UX	4-7/7
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E	*JAMES A. BEHM ET UX	4-7B/21
F	JAMES A. BEHM ET UX	4-7B/20
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K	ROBERT TODD ANKROM ET UX	4-7/5.3
L	ROSEANNA KELLER ET VIR	4-5/75
M	LANE P. RINE ET UX	4-5/73
N	EMMA A. SNEDEKER NOREEN S. HEDRICK EVELYN K. SNEDEKER ROBERT D. SIGLER ET UX NANCY C. RIGGS DONALD A. SNEDEKER DELORES J. CALLIHAN TRACI L. WILLIAMS ROBERT J. SCHAUER ET UX KATHERINE MATHEWS FLOYD EUGENE BOLEN JR. ROBERT M. MERASHOFF EQT PRODUCTION CO ET AL	4-6/12
P	EMMA A. SNEDEKER NOREEN S. HEDRICK CHESTNUT HOLDINGS LLC EVELYN K. SNEDEKER ROBERT D. SIGLER ET UX NANCY C. RIGGS DONALD A. SNEDEKER DELORES J. CALLIHAN TRACI L. WILLIAMS ROBERT J. SCHAUER ET UX KATHERINE MATHEWS FLOYD EUGENE BOLEN JR. ROBERT M. MERASHOFF EQT PRODUCTION CO ET AL	4-6/13
Q	KRISTIN CROWTHER THACHER	4-6/15
R	KRISTIN CROWTHER THACHER	4-6/16
S	THOMAS SCOTT MILLER ET UX BERNADINE RODRIGUEZ BOUNTY MINERALS II ACQUISITIONS LLC ALFRED E. HAMILTON MARCIA HAMILTON CLARK ET VIR STEVEN HAMILTON SAM W. BOOHER III ET UX MURIEL E. PARKER JON BOOHER ET UX DAVID LEWIS BOOHER ET UX VIRGINIA LEE ODGEN DAVIES ET VIR ROBERT OGDEN PATRICIA AILEEN GEORGE ET VIR AUDRA MARY OGDEN MINETTE ET VIR BOOHER HUGHES ET UX PATRICIA SUE MCALISTER ET VIR JAMES PARK MILLER ET UX	4-1/38
T	KITTLE HAULING & SUPPLY CO INC	4-1/55.11
U	SAVAGE CONSTRUCTION CO	4-1/55
V	FRANK J SCANDINARO	4-1/55.9
W	CHARLES D. ENGLE BOYD ENGLE JR.	4-1/28
X	TERRI LEE JOHNSON	4-1/55.13
Y	RUSTY E. MERCER	4-1/17



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OCTOBER 17, 2019

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API WELL #: 47 51 02154MON
STATE COUNTY PERMIT

Freeland Unit #8H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
A	4-7-21	FREELAND JOSEPH ET UX	Chevron U.S.A. Inc.	0.180	932/374	n/a	n/a	n/a
B	4-7-23.12	THIELE CHARLES L MASON JOHN K SR ET UX	Chevron U.S.A. Inc.	0.160	800/554	n/a	n/a	n/a
C	4-7-7		Fossil Creek Ohio, LLC	0.200	840/150	33/9 Fossil Creek Ohio, LLC to Gulfport Energy Corporation	36/588 Gulfport Energy Corporation and Fossil Creek Ohio, LLC to American Petroleum Partners Operating, LLC	40/99 American Petroleum Partners Operating, LLC to Chevron U.S.A. Inc.
D	4-7-5.5	YOUNG MICHAEL W	TriEnergy Holdings, LLC	0.160	711/357	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
E	4-7B-21	BEHM JAMES A ET UX	TriEnergy Holdings, LLC	0.170	737/238	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
F	4-7B-20	BEHM JAMES A ET UX	TriEnergy Holdings, LLC	0.170	737/238	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
G	4-7B-22	YOUNG MICHAEL W	TriEnergy Holdings, LLC	0.160	711/357	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
H	4-7B-5	SMITH MARK R	Chevron U.S.A. Inc.	0.140	771/265	n/a	n/a	n/a
J	4-7B-12	YOUNGER PATRICIA J	TriEnergy Holdings, LLC	0.160	731/1	25/489 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
K	4-7-5.3	ANKROM ROBERT TODD ET UX KELLER ROSEANNA ET VIR	Chevron U.S.A. Inc.	0.160	784/470	n/a	n/a	n/a
L	4-5-75		Chesapeake Appalachia, LLC	0.180	714/190	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
M	4-5-73	RINE LANE P ET UX SNEDEKER EMMA A - SFX HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc.	0.140 0.150 0.150	796/226 803/580 807/155	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a

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N	4-6-12	SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	0.150	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	0.150	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	0.150	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	0.150	801/521	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	0.150	803/53	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	0.150	813/610	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	0.150	813/620	n/a	n/a	n/a
		MATHEWS KATHERINE - SFX	Chevron U.S.A. Inc.	0.150	917/45	n/a	n/a	n/a
		BOLEN FLOYD EUGENE JR - SFX	Chevron U.S.A. Inc.	0.150	917/48	n/a	n/a	n/a
		MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	0.160	817/479	n/a	n/a	n/a
		EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	0.180	955/521	n/a	n/a	n/a
		SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	0.150	803/580	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	0.150	807/155	n/a	n/a	n/a
P	4-6-13	CHESTNUT HOLDINGS LLC	Republic Energy Ventures, LLC	0.160	839/176	32/415 Republic Energy Ventures, LLC to Chevron U.S.A. Inc.	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	0.150	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	0.150	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	0.150	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	0.150	801/521	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	0.150	803/53	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	0.150	813/610	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	0.150	813/620	n/a	n/a	n/a
		MATHEWS KATHERINE - SFX	Chevron U.S.A. Inc.	0.150	917/45	n/a	n/a	n/a
		BOLEN FLOYD EUGENE JR - SFX	Chevron U.S.A. Inc.	0.150	917/48	n/a	n/a	n/a
		MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	0.160	817/479	n/a	n/a	n/a
		EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	0.180	955/521	n/a	n/a	n/a
		Q	4-6-15	THACHER KRISTIN CROWTHER	Chevron U.S.A. Inc.	0.180	866/533	n/a
THACHER KRISTIN CROWTHER	Chevron U.S.A. Inc.			0.180	866/533	n/a	n/a	n/a
R	4-6-16	THACHER KRISTIN CROWTHER	Chevron U.S.A. Inc.	0.180	866/533	n/a	n/a	n/a

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S	4-1-38	THOMAS SCOTT MILLER ET UX	Noble Energy, Inc.	0.180	839/227	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		RODRIGUEZ BERNADINE - SFX	Chevron U.S.A. Inc.	0.170	880/477	n/a	n/a	n/a
		BOUNTY MINERALS II ACQUISITIONS LLC	Chevron U.S.A. Inc.	0.200	942/533	n/a	n/a	n/a
		HAMILTON ALFRED E - SFX	Noble Energy, Inc.	0.150	816/162	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		CLARK MARCIA HAMILTON ET VIR - SFX	Noble Energy, Inc.	0.150	816/160	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		STEVEN HAMILTON	Noble Energy, Inc.	0.150	816/190	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		SAM W BOOHER III ET UX	Noble Energy, Inc.	0.150	817/320	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		MURIEL E PARKER	Noble Energy, Inc.	0.150	816/178	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		JON BOOHER ET UX	Noble Energy, Inc.	0.150	817/322	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		DAVID LEWIS BOOHER ET UX	Noble Energy, Inc.	0.150	816/186	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a

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Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
		VIRGINIA LEE OGDEN DAVIES ET VIR	Noble Energy, Inc.	0.150	816/188	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		ROBERT OGDEN	Noble Energy, Inc.	0.150	816/181	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		PATRICIA AILEEN GEORGE ET VIR	Noble Energy, Inc.	0.150	817/324	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		AUDRA MARY OGDEN MINETTE ET VIR	Noble Energy, Inc.	0.150	817/326	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		HUGHES BOOHER ET UX	Noble Energy, Inc.	0.150	816/174	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		PATRICIA SUE MCALESTER ET VIR	Noble Energy, Inc.	0.150	819/353	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
		JAMES PARK MILLER ET UX	Noble Energy, Inc.	0.150	836/43	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia to Chevron U.S.A. Inc.	n/a
T	4-1-55.11	KITTLE HAULING & SUPPLY CO INC	Chevron U.S.A. Inc.	0.150	909/453	n/a	n/a	n/a
U	4-1-55	SAVAGE CONSTRUCTION CO	Chevron U.S.A. Inc.	0.160	912/463	n/a	n/a	n/a
V	4-1-55.9	SCANDINAVO FRANK J	Chevron U.S.A. Inc.	0.180	1023/349	n/a	n/a	n/a
WM	4-1-28	ENGLE CHARLES D - SFX	TriEnergy Holdings, LLC	0.180	728/377	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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WV	4-1-20	ENGLE BOYD JR - SFX	TriEnergy Holdings, LLC	0.180	728/379	24/430 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
X	4-1-55.13	JOHNSON TERRI LEE	Chevron U.S.A. Inc.	0.180	853/509	n/a	n/a	n/a
Y	4-1-17	MERCER RUSTY E	Chevron U.S.A. Inc.	0.180	861/637	n/a	n/a	n/a

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