



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 M07H
47-051-02153-00-00

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.

James A. Martin
Chief

Operator's Well Number: FREELAND M07H
Farm Name: JOSEPH L. FREELAND ET UX
U.S. WELL NUMBER: 47-051-02153-00-00
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, W
Operator ID County District Quadrangle

2) Operator's Well Number: M07H 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 X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

Handwritten signature and date: 10/21/19

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

8) Proposed Total Vertical Depth: 6,369

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22,519

11) Proposed Horizontal Leg Length: 15,625

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 X

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

Depth: _____

Seam: _____

Owner: _____

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18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	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	22,519	22,519	(500' below 9.625" shoe)
Tubing							
Liners							

Jan 10/21/19

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	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	2,050	Class A, G, or H	1.25
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

API NO. 47- 51 - 02153 mon

OPERATOR WELL NO. M07H

Well Pad Name: Freeland

10/21/19

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.

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Environmental Protection

51-02153

Freeland M07H

Chevron		Freeland M07H						Ground Level Elev. (ft above SL): 1,274	
Clay Twp, Marshall Co, WV									
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	Conductor 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	Surface Casing 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	Surface Blend (Class A) Cement to Surface	
	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	Intermediate Casing 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	Intermediate II Blend (Class A) Cement to Surface	
	Bow Spring: (1) per every other jt over coupling SpiraGlider or Centek: (1) per jt of csg to KOP	5-1/2" Casing	22,519	22,519		8.75 - 8.5	Production Casing 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	Production Lead Slurry Cement to 500' below 9-5/8" shoe Production Tail Slurry TOC minimum 200' above Marcellus	

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Environmental Protection

Chevron

ju
10/21/19

**Appalachian LLC
WV Well Site Safety Plan**

Pad: Freeland Pad A

Well # M07H

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]

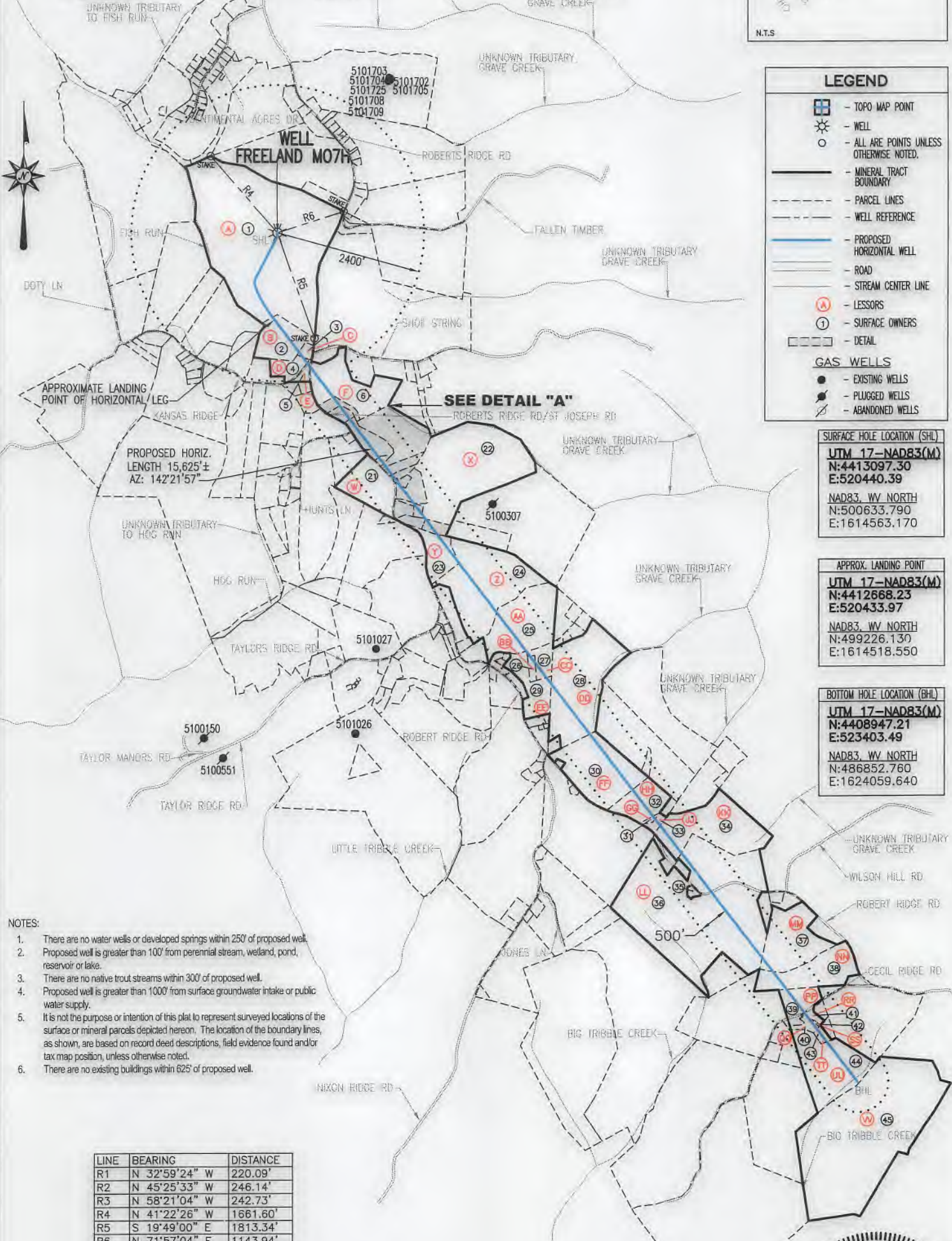
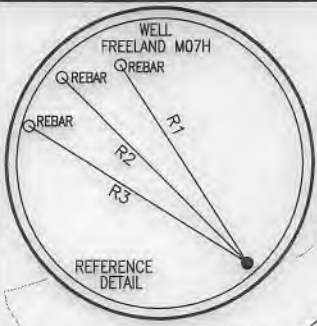
Marshall County, West Virginia

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 M07H 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

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4413097.30
 E:520440.39
 NAD83, WV NORTH
 N:500633.790
 E:1614563.170

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4412668.23
 E:520433.97
 NAD83, WV NORTH
 N:499226.130
 E:1614518.550

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4408947.21
 E:523403.49
 NAD83, WV NORTH
 N:486852.760
 E:1624059.640

- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 - 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.
 - There are no existing buildings within 625' of proposed well.

LINE	BEARING	DISTANCE
R1	N 32°59'24" W	220.09'
R2	N 45°25'33" W	246.14'
R3	N 58°21'04" W	242.73'
R4	N 41°22'26" W	1661.60'
R5	S 19°49'00" E	1813.34'
R6	N 71°57'04" E	1143.94'

API WELL #: 47 51 *D2153H6A M07H*
 STATE COUNTY PERMIT

THRASHER

OCTOBER 17, 2019



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

George D. Six

BHL is located on topo map 1,141 feet south of Latitude: 39° 50' 00"
 SHL is located on topo map 2,671 feet south of Latitude: 39° 52' 30"



SEE PAGE 3 FOR LESSORS



BHL is located on topo map 5,102 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 3,087 feet west of Longitude: 80° 45' 00"

	SURFACE OWNER	DIST-TM/PAR
1	JOSEPH L. FREELAND ET UX	4-7/21
2	JOSEPH L. FREELAND ET UX	4-7-30
3	JEFFREY C. RATLIFF	4-7/31.3
4	ROBERTS RIDGE VOL FIRE DEPT	4-7/31
5	MATTHEW & LISA M. GARRISON	4-13/9
6	LEMONT & RHONDA L. MASON	4-13/12
7	RUTH ANN WILSON EST	4-13/15.3
8	RUTH ANN WILSON EST	4-13/15.2
9	LEMONT MASON ET UX	4-13/15.1
10	K. CRAIG HUGGINS ET UX	4-13/18
11	BENNETT L. DAVIS ET UX	4-13/18.1
12	CHARLES HARVEY HALL ET UX	4-13/17
13	FRANCIS S. SZAFRAN ET UX	4-13/16
14	FRANCIS S. SZAFRAN ET UX	4-13/16.1
15	PERRY L. & RHONDA K. RINE	4-12/22.3
16	GARY D. HOLMES ET UX	4-12/22.4
17	MARK A. SALVATERRA ET UX	4-12/22.1
18	MARK A. SALVATERRA ET UX	4-12/22.2
19	ROBERT L. JONES JR. ET UX	4-12/23
20	ROBERT L. JONES JR. ET UX	4-12/23.1
21	*IMOGENE WHITFIELD - LIFE	4-13/22
22	RALPH E. WOOD	4-12/22
23	CRAIG A. YOHO ET UX	4-13/25.3
24	PAUL TRADER	4-13/25
25	ROBERT L. JONES JR.	4-13/29
26	KEVIN HOLMES	4-13/30.3
27	KEVIN L. HOLMES	4-13/30.5
28	DEBRA GUMP ET AL	4-13/32
29	RALPH A. & ROBIN R. HOLMES	4-13/30.4
30	PAUL S. ALLEN JR.	4-13/37
31	KELLY J. CECIL	4-13/38.3
32	RONALD A. KEREKES ET UX	4-13/38
33	KELLY J. CECIL	4-13/38.1
34	HOLMES-CWC-LEGACY LLC	4-13/39
35	TRACY MERCER EST	5-3/13.2
36	DOUGLAS G. & MICHAEL W. & STEPHEN S. DERROW	5-3/13
37	GEORGE R. LIGHTNER SR.	5-3/41
38	LLOYD BAKER	5-3/17
39	GLENN L. & RAMONA L. CUNNINGHAM	5-3/21
40	WILLIAM G. STANLEY	5-3/21.7
41	BERNARD A. STANLEY ET UX	5-3/21.3
42	BERNARD A. STANLEY ET UX	5-3/21.6
43	BERNARD A. STANLEY ET UX	5-3/21.4
44	BERNARD A. STANLEY ET UX	5-3/21.2
45	*CNX LAND RESOURCES INC	9-1/20.1

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4413097.30
E:520440.39
 NAD83, WV NORTH
 N:500633.790
 E:1614563.170

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UTM 17-NAD83(M)
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UTM 17-NAD83(M)
N:4408947.21
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 N:486852.760
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* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

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SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

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

FILE #: FREELAND M07H
 DRAWING #: FREELAND M07H
 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



PLACE SEAL HERE

(+) 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 M07H
 API WELL #: 47 51 02153M00
 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: 653.327±

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: 22,518.94'±

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

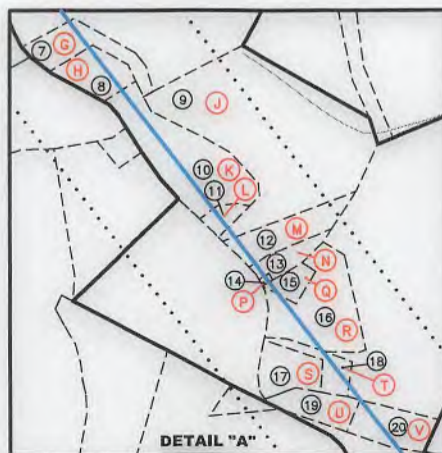
FREELAND

M07H

PAGE 3 OF 3

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D	ROBERTS RIDGE VOL FIRE DEPT	4-7/31
E	MATTHEW W. GARRISON ET UX	4-13/9
F	LEMONT MASON ET UX	4-13/12
G	JOHN L. WILKERSON	4-13/15.3
	PAUL M. SHURAK BY AIF JOHN L. WILKERSON	
H	JOHN L. WILKERSON	4-13/15.2
	PAUL M. SHURAK BY AIF JOHN L. WILKERSON	
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GG	RONALD A. KEREKES	4-13/38.3
HH	RONALD A. KEREKES	4-13/38
JJ	J. CECIL KELLY ET UX	4-13/38.1
KK	MARY W. HOLMES ET AL	4-13/39
LL	MICHAEL WILLIAM DERROW	5-3/13
MM	GEORGE R. LIGHTNER SR	5-3/41
NN	LLOYD BAKER	5-3/17
PP	MARY L. SIBURT	5-3/21
QQ	MARY L. SIBURT	5-3/21.7
RR	BERNARD A. STANLEY ET UX	5-3/21.3
SS	BERNARD A. STANLEY ET UX	5-3/21.6
TT	BERNARD A STANLEY ET UX	5-3/21.4
UU	BERNARD A STANLEY ET UX	5-3/21.2
VV	*CNX GAS COMPANY LLC	9-1/20.1

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 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 • FAX (304) 624-7831

OCTOBER 17, 2019

API WELL #:

47

51

02153MOD

STATE

COUNTY

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

RECEIVED
Office of Oil and Gas

OCT 24 2019


WV Department of
Environmental Protection

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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

5-02153400

Freeland Unit #7H - 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	4-7-30	FREELAND JOSEPH ET UX	Chevron U.S.A. Inc.	0.180	932/374	n/a	n/a	n/a
C	4-7-31.3	RATLIFF JEFFREY C ET UX	Chevron U.S.A. Inc.	0.140	763/489	n/a	n/a	n/a
D	4-7-31	ROBERTS RIDGE VOL FIRE DEPT	Chevron U.S.A. Inc.	0.160	789/454	n/a	n/a	n/a
E	4-13-9	GARRISON MATTHEW W ET UX	Chevron U.S.A. Inc.	0.140	771/299	n/a	n/a	n/a
F	4-13-12	MASON LEMONT ET UX	TH Exploration	0.180	860/385	36/168 TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a
G	4-13-15.3	WILKERSON JOHN L - SFX	Chevron U.S.A. Inc.	0.160	822/340	n/a	n/a	n/a
		SHURAK PAUL M BY AIF WILKERSON JOHN L - S	Chevron U.S.A. Inc.	0.160	829/431	n/a	n/a	n/a
H	4-13-15.2	WILKERSON JOHN L - SFX	Chevron U.S.A. Inc.	0.160	822/340	n/a	n/a	n/a
		SHURAK PAUL M BY AIF WILKERSON JOHN L - S	Chevron U.S.A. Inc.	0.160	829/431	n/a	n/a	n/a
J	4-13-15.1	MASON LEMONT ET UX	TH Exploration	0.180	860/385	36/168 TH Exploration, LLC to Chevron U.S.A. Inc.	n/a	n/a
K	4-13-18	HUGGINS K CRAIG ET UX	TriEnergy Holdings	0.160	705/474	24/180 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
L	4-13-18.1	DAVIS BENNETT L ET UX	TriEnergy Holdings	0.160	706/601	24/180 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
M	4-13-17	HALL CHARLES H ET AL	TriEnergy Holdings	0.160	717/143	24/180 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
N	4-13-16	SZAFRAN FRANCIS S ET UX	TriEnergy Holdings	0.160	709/53	24/180 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
P	4-13-16.1	SZAFRAN FRANCIS S ET UX	TriEnergy Holdings	0.160	709/53	24/180 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
Q	4-12-22.3	RINE PERRY L ET UX	TriEnergy Holdings	0.160	709/59	24/180 TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a

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R	4-12-22.4	HOLMES GARY ET UX	TriEnergy Holdings	0.160	709/590	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
S	4-12-22.1	SALVATERRA MARK A - ET UX	Chevron U.S.A. Inc.	0.160	915/622	n/a	n/a	n/a
T	4-12-22.2	SALVATERRA MARK A - ET UX	Chevron U.S.A. Inc.	0.160	915/622	n/a	n/a	n/a
U	4-13-23	JONES ROBERT L JR ET UX	AB Resources, LLC	0.125	689/87	24/490 AB Resources, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	25/1 Chief Exploration & Development LLC and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
V	4-12-23.1	JONES ROBERT L JR ET UX	AB Resources, LLC	0.125	689/87	24/490 AB Resources, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	25/105 Chief Exploration & Development LLC and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
W	4-13-22	WHITFIELD IMOGENE	AB Resources, LLC	0.125	689/89	24/466 AB Resources et al to Chief Exploration and Development and Radler 2000 Limited Partnership	25/105 Chief Exploration and Development and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
X	4-12-22	WOOD RALPHE	Chevron U.S.A. Inc.	0.180	835/28	n/a	n/a	n/a
Y	4-13-25.3	YOHO CRAIG A ET UX	Chevron U.S.A. Inc.	0.180	866/170	n/a	n/a	n/a
Z	4-13-25	TRADER PAUL TRADER COLETTE JEAN JONES ROBERT L JR ET UX	Chevron U.S.A. Inc. Chevron U.S.A. Inc.	0.160 0.160	907/18 907/15	n/a n/a	n/a n/a	n/a n/a
AA	4-13-29		AB Resources, LLC	0.125	689/87	24/490 AB Resources, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership	25/1 Chief Exploration & Development LLC and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
BB	4-13-30.3	HOLMES KEVIN L	TriEnergy Holdings	0.160	704/354	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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CC	4-13-30.5	HOLMES RALPH ALLEN - SFX GUMP DEBRA ET AL - SFX	Chevron U.S.A. Inc.	0.180	914/566	n/a 24/490	n/a 25/1	n/a 756/397
DD	4-13-32	HUGGINS TIMOTHY - SFX	AB Resources, LLC	0.125	691/142	AB Resources, LLC to Chief Exploration & Development LLC and Radler 2000 Limited Partnership 24/490	Chief Exploration & Development LLC and Radler 2000 Limited Partnership to Chevron U.S.A. Inc. 25/1	AB Resources, LLC to Chevron U.S.A. Inc. 756/397
EE	4-13-30.4	HOLMES RALPH ALLEN - SFX	Chevron U.S.A. Inc.	0.180	914/566	n/a	n/a	n/a
FF	4-13-37	ALLEN PAUL S JR	Chevron U.S.A. Inc.	0.160	915/625	n/a	n/a	n/a
GG	4-13-38.3	KEREKES RONALD A	Chevron U.S.A. Inc.	0.180	847/427	n/a	n/a	n/a
HH	4-13-38	KEREKES RONALD A KELLY J CECIL ET UX	Chevron U.S.A. Inc.	0.180	847/427	n/a	n/a	n/a
JJ	4-13-38.1	KELLY J CECIL ET UX	Noble Energy, Inc.	0.150	805/589	39/1 Noble Energy, Inc to HG Energy II Appalachia, LLC	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
KK	4-13-39	HOLMES MARY W ET AL DERROW MICHAEL WILLIAM	Chevron U.S.A. Inc.	0.140	791/234	n/a	n/a	n/a
LL	5-3-13		Chesapeake Appalachia, LLC	0.150	681/341	29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	30/427 Statoil USA Onshore Properties, Inc to Chevron U.S.A. Inc.	30/461 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.
MM	5-3-41	LIGHTNER GEORGE R SR	Chevron U.S.A. Inc.	0.180	834/389	n/a	n/a	n/a
NN	5-3-17	BAKER LLOYD SIBURT MARY L	Chevron U.S.A. Inc.	0.170	947/505	n/a 24/430	n/a 756/332	n/a
PP	5-3-21	SIBURT MARY L	TriEnergy Holdings	0.160	712/567	TriEnergy Holdings, LLC to NPAR, LLC 24/430	NPAR, LLC to Chevron U.S.A. Inc. 756/332	n/a
QQ	5-3-21.7	SIBURT MARY L	TriEnergy Holdings	0.160	712/567	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a

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RR	5-3-21.3	STANLEY BERNARD A ET UX	AB Resources, LLC	0.125	685/286	24/466 AB Resources et al to Chief Exploration and Development and Radler 2000 Limited Partnership	25/105 Chief Exploration and Development and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
SS	5-3-21.6	STANLEY BERNARD A ET UX	AB Resources, LLC	0.125	685/286	AB Resources et al to Chief Exploration and Development and Radler 2000 Limited Partnership	24/466 Chief Exploration and Development and Radler 2000 Limited Partnership to Chevron U.S.A. Inc.	756/397 AB Resources, LLC to Chevron U.S.A. Inc.
TT	5-3-21.4	STANLEY BERNARD A ET UX	AB Resources, LLC	0.125	685/286	756/397 AB Resources, LLC to Chevron U.S.A. Inc.	n/a	n/a
UU	5-3-21.2	STANLEY BERNARD A ET UX	AB Resources, LLC	0.125	685/286	756/397 AB Resources, LLC to Chevron U.S.A. Inc.	n/a	n/a
VV	9-1-20.1	CNX GAS CO LLC	Chevron U.S.A. Inc.	0.200	1014/30	n/a	n/a	n/a

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