

APPROVED

NAME: *Carl A. [Signature]*

DATE: *2/10/2016*

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 513138

API: 47 - 017 - 06326

Submission: Initial Amended

Notes: Correction to Production Cement Top (MD)

RECEIVED
Office of Oil and Gas

DEC 21 2015

WV Department of
Environmental Protection

AX WS 03/31/16

04/01/2016

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-017-06326 County DODDRIDGE District WEST UNION
Quad OXFORD 7.5' Pad Name OXF156 Field/Pool Name _____
Farm name HEASTER, CHARLES P., ET AL Well Number 513138
Operator (as registered with the OOG) EQT Production Company
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4342165.4 Easting 518343.6
Landing Point of Curve Northing 4342305.4 Easting 518319.4
Bottom Hole Northing 4344220.7 Easting 517351.7

Elevation (ft) 1202 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SBM 12.8ppg - powdered hydrocarbon resin, calcium carbonate, ground almond hulls, barium sulfate, calcium chloride, lecithin liquid, organophilic clay, polyaminated fatty acid, calcium hydroxide, polyimide surfactant, modified fatty acid, dimer.trimer fatty acid, ground walnut hulls, refined base oil.

Date permit issued 11/20/2013 Date drilling commenced 5/7/2014 Date drilling ceased 9/6/2014
Date completion activities began 12/16/2014 Date completion activities ceased 12/31/2014
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 169,216,320,386,462,600,1084 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1456 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1272,1312 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

04/01/2016

API 47-017 - 06326

Farm name HEASTER, CHARLES P., ET AL Well number 513138

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	40'	New	94lb/ft	N/A	Y
Surface	17-1/2"	13-3/8"	1,177'	New	54.5lb/ft	367'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	5,255'	New	40lb/ft	2,257'2,362'3,918'	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	14,020'	New	20lb/ft	N/A	N
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	38	15.6	1.18	44.84	0	8
Surface	Class A	995	15.6	1.19	1184	0	8
Coal							
Intermediate 1	Class A /Class A/Class A	400/340/1015	14.2/15.6/15.6	1.28/1.18/1.18	2111	0	8
Intermediate 2							
Intermediate 3							
Production	Class A/Class H	250/930	14.2/15.2	1.26/1.97	2,147	4,684'	72
Tubing							

Drillers TD (ft) 14,023' Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,303'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Conductor- N/A
 Surface-Bowspring centralizer on shoe track and every 300' to surface
 Intermediate-Bowspring centralizer on shoe track and every 500' to surface
 Production- Composite bodied centralizers on every joint from Shoe track up to 4,279'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 017 - 06326 Farm name HEASTER, CHARLES P., ET AL Well number 513138

PERFORATION RECORD

Stage No	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please See Attached

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
						Please	See	Attached

Please insert additional pages as applicable.

API 47- 017 - 06326 Farm name HEASTER, CHARLES P., ET AL Well number 513138

PRODUCING FORMATION(S)	DEPTHS
Marcellus	6,599.3 TVD 6,753 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2027 psi Bottom Hole N/A psi DURATION OF TEST 98 hrs

OPEN FLOW Gas 5211 mcfpd Oil 0 bpd NGL 68 bpd Water 987 bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	NAME	TVD	MD	MD	
	0		0		

Please insert additional pages as applicable.

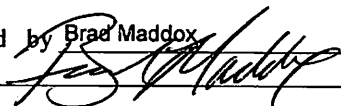
Drilling Contractor Savanna Drilling
Address 2204 Timberloch Place Suite 230 City Woodlands State TX Zip 77380

Logging Company Hoss Co. Services LLC
Address 614 Trotters Lane City Charleston State WV Zip 25312

Cementing Company Nabors Completion & Production Services Co.
Address PO BOX 975682 City Dallas State TX Zip 75397-5682

Stimulating Company FTSI
Address 301 E 18th Street City Cisco State TX Zip 76437

Please insert additional pages as applicable.

Completed by Brad Maddox Telephone 412-395-7053
Signature  Title Director of Drilling Date 12/9/2015

Drilling Contractor: **Savanna Drilling**

Address: **125 Industry Road**

City: **Waynesburg** State: **PA**

Zip: **15370**

Cementing Company **Nabors Well Services**

Address **2504 Smith Creek Road**

City **Waynesburg**

State **PA**

Zip **15370**

Logging Company _____

Address _____

City _____

State _____

Zip _____

513138 Final Formations API #47-017-06326

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	1	1	1,084.00	1,084.00
SAND/SHALE	1	1	1,272.00	1,272.00
COAL	1,272.00	1,272.00	1,277.00	1,277.00
SAND/SHALE	1,277.00	1,277.00	1,312.00	1,312.00
COAL	1,312.00	1,312.00	1,318.00	1,318.00
SAND/SHALE	1,318.00	1,318.00	1,513.00	1,513.00
MAXTON	1,513.00	1,513.00	1,865.00	1,865.00
BIG LIME	1,865.00	1,865.00	1,923.00	1,923.00
KEENER	1,923.00	1,923.00	2,163.00	2,163.00
WEIR	2,163.00	2,163.00	2,358.00	2,358.00
BEREA	2,358.00	2,358.00	2,367.00	2,367.00
GANTZ	2,367.00	2,367.00	2,442.00	2,442.00
50F	2,442.00	2,442.00	2,563.00	2,563.00
30F	2,563.00	2,563.00	2,612.00	2,612.00
GORDON	2,612.00	2,612.00	2,710.00	2,710.00
4TH	2,710.00	2,710.00	2,918.00	2,918.00
BAYARD	2,918.00	2,918.00	3,207.00	3,207.00
WARREN	3,207.00	3,207.00	3,293.00	3,293.00
SPEECHLEY	3,293.00	3,293.00	3,796.00	3,796.00
BALLTOWN A	3,796.00	3,796.00	4,023.00	4,023.00
BALLTOWN B	4,023.00	4,023.00	4,183.00	4,182.90
BRADFORD	4,183.00	4,182.90	4,424.00	4,423.90
RILEY	4,424.00	4,423.90	4,871.00	4,870.80
BENSON	4,871.00	4,870.80	5,122.00	5,121.80
ALEXANDER	5,122.00	5,121.80	6,428.00	6,395.30
MIDDLESEX	6,428.00	6,395.30	6,490.00	6,446.70
GENESEE	6,490.00	6,446.70	6,582.00	6,514.30
GENESEO	6,582.00	6,514.30	6,656.00	6,558.50
TULLY	6,656.00	6,558.50	6,708.00	6,582.90
HAMILTON	6,708.00	6,582.90	6,753.00	6,599.30
MARCELLUS	6,753.00	6,599.30		

513138 - 47-017-06326-00-00 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	12/15/2014	13,994.00	13,997.00	10	MARCELLUS
1	12/16/2014	13,894.00	13,946.00	28	MARCELLUS
2	12/16/2014	13,744.00	13,846.00	40	MARCELLUS
3	12/17/2014	13,594.00	13,696.00	40	MARCELLUS
4	12/17/2014	13,444.00	13,546.00	40	MARCELLUS
5	12/17/2014	13,294.00	13,396.00	40	MARCELLUS
6	12/17/2014	13,146.00	13,246.00	40	MARCELLUS
7	12/18/2014	12,994.00	13,096.00	40	MARCELLUS
8	12/18/2014	12,844.00	12,946.00	40	MARCELLUS
9	12/19/2014	12,694.00	12,798.00	40	MARCELLUS
10	12/19/2014	12,544.00	12,646.00	40	MARCELLUS
11	12/19/2014	12,394.00	12,496.00	40	MARCELLUS
12	12/19/2014	12,244.00	12,346.00	40	MARCELLUS
13	12/19/2014	12,095.00	12,196.00	40	MARCELLUS
14	12/20/2014	11,944.00	12,046.00	40	MARCELLUS
15	12/20/2014	11,794.00	11,896.00	40	MARCELLUS
16	12/20/2014	11,644.00	11,746.00	40	MARCELLUS
17	12/20/2014	11,494.00	11,596.00	40	MARCELLUS
18	12/21/2014	11,344.00	11,446.00	40	MARCELLUS
19	12/21/2014	11,194.00	11,296.00	40	MARCELLUS
20	12/22/2014	11,044.00	11,146.00	40	MARCELLUS
21	12/22/2014	10,894.00	10,996.00	40	MARCELLUS
22	12/22/2014	10,744.00	10,846.00	40	MARCELLUS
23	12/23/2014	10,594.00	10,696.00	40	MARCELLUS
24	12/23/2014	10,444.00	10,546.00	40	MARCELLUS
25	12/23/2014	10,294.00	10,396.00	40	MARCELLUS
26	12/23/2014	10,144.00	10,246.00	40	MARCELLUS
27	12/23/2014	9,994.00	10,096.00	40	MARCELLUS
28	12/24/2014	9,844.00	9,946.00	40	MARCELLUS
29	12/27/2014	9,696.00	9,796.00	40	MARCELLUS
30	12/28/2014	9,544.00	9,646.00	40	MARCELLUS
31	12/28/2014	9,394.00	9,496.00	40	MARCELLUS
32	12/28/2014	9,244.00	9,346.00	40	MARCELLUS
33	12/28/2014	9,092.00	9,196.00	40	MARCELLUS
34	12/28/2014	8,944.00	9,046.00	40	MARCELLUS
35	12/29/2014	8,794.00	8,896.00	40	MARCELLUS
36	12/29/2014	8,644.00	8,746.00	40	MARCELLUS
37	12/29/2014	8,494.00	8,596.00	40	MARCELLUS
38	12/29/2014	8,344.00	8,444.00	40	MARCELLUS

513138 - 47-017-06326-00-00 - Stimulated Stages

Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
Initiation Sleeve	12/16/2014	20.1	6,564.00	7,390.00	4,249	0	578	0
1	12/17/2014	90.3	8,391.00	9,060.00	4,851	206,338.00	6114	0
2	12/17/2014	95.2	8,306.00	8,998.00	4,812	251,329.00	7230	0
3	12/17/2014	90.5	8,370.00	8,598.00	4,278	249,881.00	6460	0
4	12/17/2014	89.4	8,400.00	8,793.00	4,333	251,625.00	6382	0
5	12/18/2014	90.7	8,344.00	8,940.00	4,940	241,940.00	7795	0
6	12/18/2014	91.8	8,370.00	8,905.00	5,198	250,879.00	6317	0
7	12/18/2014	92.3	8,569.00	8,922.00	5,246	252,340.00	6182	0
8	12/19/2014	93	8,603.00	8,603.00	5,016	253,208.00	6461	0
9	12/19/2014	91.5	8,467.00	8,924.00	4,799	251,100.00	6486	0
10	12/19/2014	91	8,497.00	9,002.00	4,893	250,742.00	6325	0
11	12/19/2014	94.1	8,357.00	9,362.00	4,691	249,788.00	6641	0
12	12/20/2014	93.9	8,338.00	8,828.00	4,855	250,343.00	6322	0
13	12/20/2014	95.3	8,402.00	8,790.00	4,372	252,186.00	6533	0
14	12/20/2014	97.5	8,438.00	8,868.00	5,350	251,645.00	6308	0
15	12/20/2014	94.9	8,387.00	9,093.00	5,219	250,228.00	6314	0
16	12/21/2014	94.1	8,436.00	9,106.00	5,370	252,590.00	6220	0
17	12/21/2014	94.9	8,517.00	9,244.00	5,146	249,460.00	6404	0
18	12/21/2014	94.9	8,517.00	9,153.00	5,297	225,481.00	6180	0
19	12/22/2014	95.2	8,281.00	9,415.00	5,490	252,338.00	6481	0
20	12/22/2014	98.1	8,386.00	9,254.00	4,934	251,184.00	6469	0
21	12/22/2014	90.5	8,058.00	8,870.00	5,281	250,964.00	6502	0
22	12/23/2014	94	8,424.00	8,914.00	4,500	252,444.00	6472	0
23	12/23/2014	94.2	8,307.00	8,556.00	5,066	249,641.00	6242	0
24	12/23/2014	96.1	8,423.00	9,049.00	5,657	250,617.00	6238	0
25	12/23/2014	96.7	8,252.00	8,498.00	5,162	252,770.00	6276	0
26	12/23/2014	98.6	8,290.00	8,634.00	5,067	253,936.00	6286	0
27	12/24/2014	95.6	8,265.00	9,066.00	5,318	252,812.00	6165	0
28	12/27/2014	98.8	8,598.00	9,470.00	5,554	227,548.00	6027	0
29	12/28/2014	95.3	8,398.00	8,674.00	4,005	250,482.00	6176	0
30	12/28/2014	99.3	8,340.00	8,779.00	5,692	226,624.00	5907	0
31	12/28/2014	99.9	8,076.00	8,291.00	5,163	251,092.00	6144	0
32	12/28/2014	100.2	8,121.00	8,678.00	5,509	250,566.00	6120	0
33	12/28/2014	101.1	7,930.00	8,169.00	4,261	249,746.00	6345	0
34	12/28/2014	101.6	7,619.00	7,793.00	4,621	251,238.00	6210	0
35	12/29/2014	101.5	7,989.00	8,108.00	4,955	251,889.00	6216	0
36	12/29/2014	99.3	7,872.00	8,187.00	5,348	251,256.00	6870	0
37	12/29/2014	100.2	8,100.00	8,365.00	5,169	250,050.00	6150	0
38	12/29/2014	100.6	7,986.00	8,166.00	5,224	251,164.00	6228	0
39	12/30/2014	100.7	7,901.00	8,052.00	5,543	250,839.00	6126	0
40	12/30/2014	100.2	7,657.00	7,836.00	4,721	251,078.00	6146	0
41	12/30/2014	100.1	7,826.00	8,470.00	5,205	250,208.00	6104	0
42	12/30/2014	99.1	7,705.00	8,773.00	4,932	250,449.00	6034	0
43	12/30/2014	99.6	7,938.00	8,131.00	5,023	250,102.00	6038	0
44	12/30/2014	101.2	7,797.00	8,005.00	5,026	250,973.00	6210	0
45	12/31/2014	100.7	7,663.00	7,865.00	5,219	250,700.00	5976	0
46	12/31/2014	100.9	7,454.00	7,711.00	5,297	250,575.00	6024	0
47	12/31/2014	100.4	7,612.00	7,921.00	5,095	251,057.00	6031	0
48	12/31/2014	100.1	7,512.00	7,676.00	5,266	251,241.00	6104	0

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/15/2014
Job End Date:	12/31/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06326-00-00
Operator Name:	EQT Production
Well Name and Number:	513138
Longitude:	-80.78764800
Latitude:	39.22850500
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,732
Total Base Water Volume (gal):	13,235,628
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FTS International	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.93139	None
Sand (Proppant)	FTS International	Proppant	Crystalline Silica	14808-60-7	100.00000	9.71092	None
Hydrochloric Acid (15%)	FTS International	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03217	None
FRW-600	FTS International	Friction reducer	Hydrotreated light distillate	54742-47-8	30.00000	0.02115	None
			Ammonium acetate	531-61-8	6.00000	0.00423	None
B-10	FTS International	High pH buffer	Potassium carbonate	584-08-7	48.00000	0.01144	None
			Potassium hydroxide	1310-58-3	20.00000	0.00477	None
HVG-1	FTS International	Gelling agent	Petroleum distillate	54742-47-8	55.00000	0.00384	None
			Guar gum	9000-30-0	50.00000	0.00349	None
			Surfactant	58439-51-0	2.00000	0.00014	None
			Clay	14808-60-7	2.00000	0.00014	None
CI-3240	FTS International	Biocide	Dazomet	533-74-4	24.00000	0.00239	None

			Sodium hydroxide	1310-73-2	4.00000	0.00040	None
CS-500-SI	FTS International	Scale Inhibitor					
			Ethylene glycol	107-21-1	10.00000	0.00248	None
CI-150	FTS International	Acid Corrosion Inhibitor					
			Isopropanol	67-63-0	30.00000	0.00013	None
			Organic amine resin salt	Proprietary	30.00000	0.00013	None
			Ethylene glycol	107-21-1	30.00000	0.00013	None
			Quaternary ammonium compound	Proprietary	10.00000	0.00004	None
			Aromatic aldehyde	Proprietary	10.00000	0.00004	None
			Dimethylformamide	68-12-2	10.00000	0.00004	None
APB-1	FTS International	Breaker					
			Ammonium persulfate	7727-54-0	95.00000	0.00011	None
NE-100	FTS International	Non-emulsifier					
			2-Butoxyethanol	111-76-2	10.00000	0.00003	None
			2-Propanol	67-63-0	10.00000	0.00003	None
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00002	None
FE-100L	FTS International	Iron control					
			Citric acid	77-92-9	55.00000	0.00005	None
Chlorine Dioxide Solution - SVP-Pure	Neptune	Disinfectant and/or oxidizer					
			Chlorine dioxide	10049-04-4	0.30000	0.00002	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

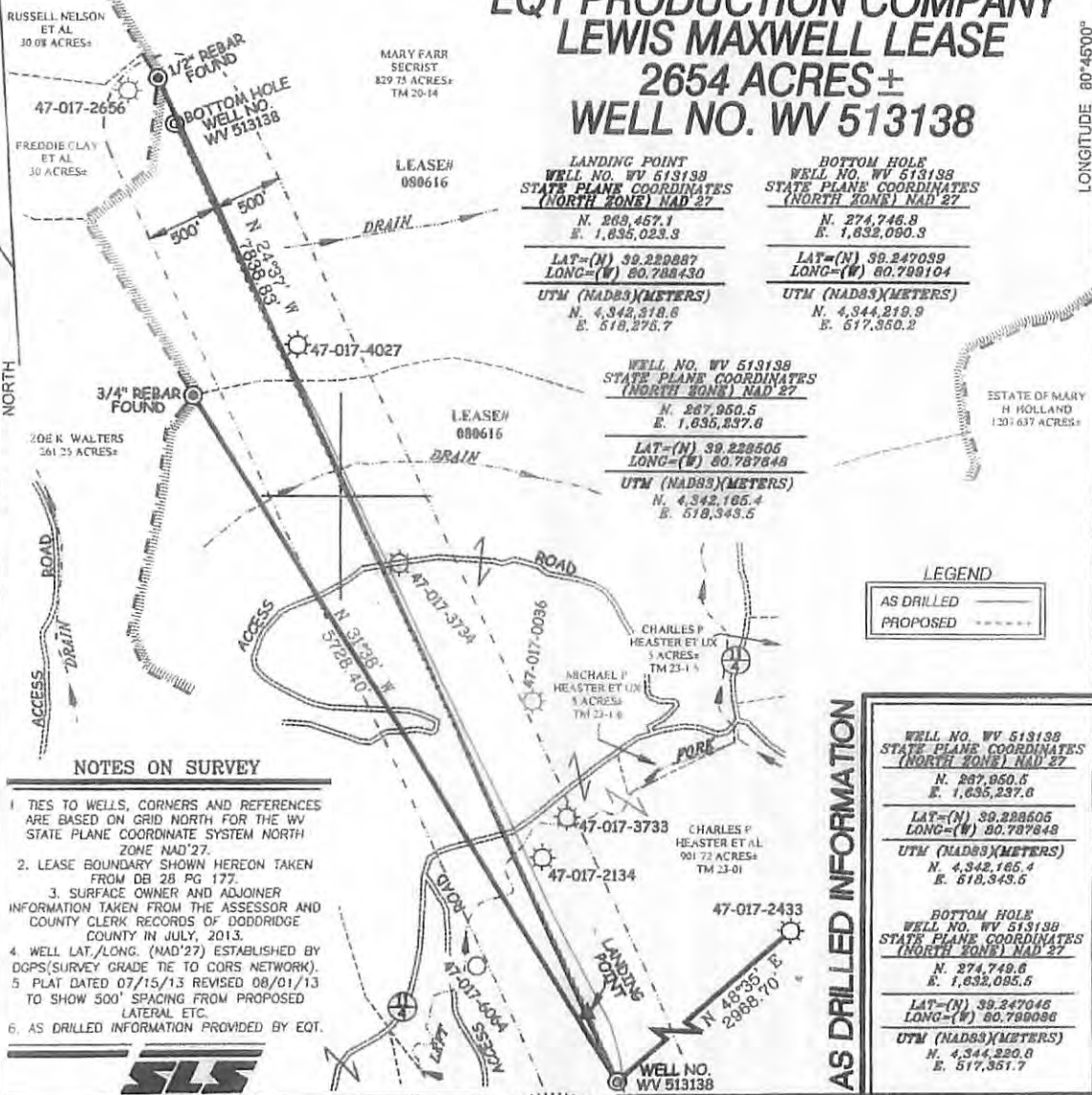
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

EQT PRODUCTION COMPANY LEWIS MAXWELL LEASE 2654 ACRES ± WELL NO. WV 513138



LANDING POINT
WELL NO. WV 513138
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 269,457.1
E. 1,635,023.3
LAT=(N) 39.220887
LONG=(W) 80.788430
UTM (NAD83)(METERS)
N. 4,344,218.6
E. 618,276.7

BOTTOM HOLE
WELL NO. WV 513138
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 274,746.8
E. 1,632,090.3
LAT=(N) 39.247059
LONG=(W) 80.799104
UTM (NAD83)(METERS)
N. 4,344,218.9
E. 617,360.2

WELL NO. WV 513138
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 287,960.5
E. 1,635,237.6
LAT=(N) 39.228606
LONG=(W) 80.787648
UTM (NAD83)(METERS)
N. 4,342,165.4
E. 618,343.6

LEGEND
AS DRILLED ———
PROPOSED - - - - -

NOTES ON SURVEY

1. TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD'27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DB 28 PG 177.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).
5. PLAT DATED 07/15/13 REVISED 08/01/13 TO SHOW 500' SPACING FROM PROPOSED LATERAL ETC.
6. AS DRILLED INFORMATION PROVIDED BY EQT.



AS DRILLED INFORMATION

WELL NO. WV 513138
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 287,960.5
E. 1,635,237.6
LAT=(N) 39.228606
LONG=(W) 80.787648
UTM (NAD83)(METERS)
N. 4,342,165.4
E. 618,343.6

BOTTOM HOLE
WELL NO. WV 513138
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 274,746.8
E. 1,632,090.3
LAT=(N) 39.247046
LONG=(W) 80.799086
UTM (NAD83)(METERS)
N. 4,344,220.8
E. 617,361.7

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. 877 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 1, 20 13
REVISED DATE SEPTEMBER 30, 20 14
OPERATORS WELL NO. WV 513138
API WELL NO. 47
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6980ASDRILLED513138
SCALE 1" = 1000'
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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 ___ SHALLOW X

LOCATION: ELEVATION 1,244'(GROUND) 1,202'(PROPOSED) WATERSHED LEFT FORK ARNOLDS CREEK
DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER CHARLES P. HEASTER ET AL ACREAGE 901.72 ±
ROYALTY OWNER LEWIS MAXWELL HRS ACREAGE 2654 ±
PROPOSED WORK: LEASE NO. 080616

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 MARCELLUS ESTIMATED DEPTH ___

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330