

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

API 47 - 017 - 06328 County DODDRIDGE District WEST UNION  
Quad OXFORD 7.5' Pad Name OXF156 Field/Pool Name \_\_\_\_\_  
Farm name HEASTER, CHARLES P., ET AL Well Number 513139  
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 4342161.0 Easting 518344.5  
Landing Point of Curve Northing 4342090.2 Easting 518455.1  
Bottom Hole Northing 4340543.9 Easting 519206.8

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 12.5ppg - 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 8/26/2014  
Date completion activities began 12/5/2014 Date completion activities ceased 12/14/2014  
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 \_\_\_\_\_  
Salt water depth(s) ft 1456 Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 1272,1312 Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) N

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Reviewed by: A:LS/14/15  
06/12/2015  
W.S. 06/01/15

API 47-017 - 06328 Farm name HEASTER, CHARLES P., ET AL Well number 513139

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"	1,189'	New	54.5lb/ft	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	5,267'	New	40lb/ft	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	12,781'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	38	15.6	1.18	44.84	0	8
Surface	Class A	975	15.6	1.18	1150	0	8
Coal							
Intermediate 1	Class A 5050 POZ/Class A/Class A	380/340/1060	14.2/15.6/15.6	1.28/1.18/1.18	2138	0	8
Intermediate 2							
Intermediate 3							
Production	Class A/Class H	270/765	14.2/15.2	1.26/1.97	1846	5,500'	72
Tubing							

Drillers TD (ft) 12,794' \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus \_\_\_\_\_ Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5,346' \_\_\_\_\_

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-Bowstring centralizer on shoe track and every 300' to surface  
 Intermediate-Bowstring centralizer on shoe track and every 500' to surface  
 Production- Composite bodied centralizers on every joint from Shoe track up to 4,306'

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 \_\_\_\_\_

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**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
<b>SEE ATTACHMENT</b>					

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)
<b>SEE ATTACHMENT</b>								

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6,601.3</u>	<u>TVD</u>	<u>6,953</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1,929 psi Bottom Hole NA psi DURATION OF TEST 87 hrs

OPEN FLOW Gas 3,489 mcfpd Oil 0 bpd NGL 24 bpd Water 292 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		

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 FTS International, LLC  
Address 301 East 18th Street City Cisco State TX Zip 76437

Please insert additional pages as applicable.

Completed by James E. Helmick Jr. Telephone 412-395-5518  
Signature [Signature] Title Vice President - Completions Operations Date 3/9/2015

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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	1,084.00	1,084.00	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	1,922.90
KEENER	1,923.00	1,922.90	2,163.00	2,162.90
WEIR	2,163.00	2,162.90	2,358.00	2,357.90
BEREA	2,358.00	2,357.90	2,367.00	2,366.90
GANTZ	2,367.00	2,366.90	2,442.00	2,441.90
50F	2,442.00	2,441.90	2,563.00	2,562.90
30F	2,563.00	2,562.90	2,612.00	2,611.90
GORDON	2,612.00	2,611.90	2,710.00	2,709.90
4TH	2,710.00	2,709.90	2,918.00	2,917.90
BAYARD	2,918.00	2,917.90	3,207.00	3,206.80
WARREN	3,207.00	3,206.80	3,293.00	3,292.80
SPEECHLEY	3,293.00	3,292.80	3,796.00	3,795.70
BALLTOWN A	3,796.00	3,795.70	4,023.00	4,022.70
BALLTOWN B	4,023.00	4,022.70	4,183.00	4,182.70
BRADFORD	4,183.00	4,182.70	4,424.00	4,423.60
RILEY	4,424.00	4,423.60	4,871.00	4,865.90
BENSON	4,871.00	4,865.90	5,122.00	5,109.20
ALEXANDER	5,122.00	5,109.20	6,530.00	6,398.40
MIDDLESEX	6,530.00	6,398.40	6,608.00	6,449.00
GENESEE	6,608.00	6,449.00	6,728.00	6,514.30
GENESEO	6,728.00	6,514.30	6,827.00	6,558.30
TULLY	6,827.00	6,558.30	6,893.00	6,583.00
HAMILTON	6,893.00	6,583.00	6,953.00	6,601.30
MARCELLUS	6,953.00	6,601.30	12,794.00	6,583.50

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513139 - 47-017-06328-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	12/5/2014	12,755.00	12,758.00	10	MARCELLUS
1	12/5/2014	12,756.00	12,725.00	32	MARCELLUS
2	12/5/2014	12,485.00	12,605.00	40	MARCELLUS
3	12/5/2014	12,335.00	12,455.00	40	MARCELLUS
4	12/6/2014	12,185.00	12,305.00	40	MARCELLUS
5	12/6/2014	12,035.00	12,155.00	40	MARCELLUS
6	12/7/2012	11,885.00	12,005.00	40	MARCELLUS
7	12/7/2014	11,735.00	11,854.00	40	MARCELLUS
8	12/7/2014	11,585.00	11,705.00	40	MARCELLUS
9	12/8/2014	11,435.00	11,555.00	40	MARCELLUS
10	12/8/2014	11,285.00	11,405.00	40	MARCELLUS
11	12/8/2014	11,135.00	11,255.00	40	MARCELLUS
12	12/8/2014	10,985.00	11,105.00	40	MARCELLUS
13	12/9/2014	10,835.00	10,955.00	40	MARCELLUS
14	12/9/2014	10,685.00	10,802.00	40	MARCELLUS
15	12/10/2014	10,535.00	10,655.00	40	MARCELLUS
16	12/10/2014	10,385.00	10,503.00	40	MARCELLUS
17	12/10/2014	10,234.00	10,355.00	40	MARCELLUS
18	12/10/2014	10,085.00	10,205.00	40	MARCELLUS
19	12/10/2014	9,935.00	10,055.00	40	MARCELLUS
20	12/11/2014	9,785.00	9,905.00	40	MARCELLUS
21	12/11/2014	9,635.00	9,752.00	40	MARCELLUS
22	12/11/2012	9,485.00	9,605.00	40	MARCELLUS
23	12/11/2014	9,335.00	9,455.00	40	MARCELLUS
24	12/12/2014	9,183.00	9,305.00	40	MARCELLUS
25	12/12/2014	9,035.00	9,155.00	40	MARCELLUS
26	12/12/2014	8,885.00	9,005.00	40	MARCELLUS
27	12/12/2014	8,735.00	8,855.00	40	MARCELLUS
28	12/12/2014	8,585.00	8,708.00	40	MARCELLUS
29	12/13/2014	8,435.00	8,555.00	40	MARCELLUS
30	12/13/2014	8,285.00	8,405.00	40	MARCELLUS
31	12/13/2014	8,137.00	8,255.00	40	MARCELLUS
32	12/13/2014	7,985.00	8,105.00	40	MARCELLUS
33	12/13/2014	7,835.00	7,955.00	40	MARCELLUS
34	12/13/2014	7,685.00	7,805.00	40	MARCELLUS
35	12/14/2014	7,535.00	7,655.00	40	MARCELLUS
36	12/14/2014	7,385.00	7,505.00	40	MARCELLUS
37	12/14/2014	7,235.00	7,355.00	40	MARCELLUS
38	12/14/2014	7,089.00	7,205.00	40	MARCELLUS

**513139 - 47-017-06328-0000 - 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 (bbls)	Amount of Nitrogen/other (units)
Initiation/Sleeve	12/5/2014	14.80	6,899.00	8,124.00	4,690	0	906	0
1	12/5/2014	89.30	8,499.00	8,849.00	4,501	251,456	6,711	0
2	12/5/2014	91.80	8,097.00	8,468.00	4,627	255,907	6,781	0
3	12/5/2014	90.90	8,254.00	8,640.00	5,290	250,658	6,633	0
4	12/6/2014	100.00	8,467.00	8,898.00	4,674	251,100	6,452	0
5	12/7/2014	98.10	8,296.00	8,634.00	4,572	251,100	6,628	0
6	12/7/2014	99.80	8,273.00	8,512.00	5,193	250,900	6,566	0
7	12/7/2014	99.20	8,259.00	8,820.00	5,404	250,050	6,510	0
8	12/8/2014	99.70	8,234.00	8,492.00	4,516	251,875	6,535	0
9	12/8/2014	96.50	8,369.00	8,824.00	4,063	253,000	6,554	0
10	12/8/2014	94.20	8,019.00	9,002.00	4,211	249,061	6,383	0
11	12/8/2014	99.60	8,121.00	8,496.00	4,480	250,573	6,696	0
12	12/9/2014	100.50	8,077.00	8,357.00	4,595	250,972	6,530	0
13	12/9/2014	96.00	8,152.00	8,785.00	5,182	251,446	6,308	0
14	12/9/2014	99.80	8,140.00	8,336.00	4,382	250,637	6,727	0
15	12/10/2014	100.10	8,214.00	8,785.00	4,844	250,678	6,516	0
16	12/10/2014	98.80	8,105.00	8,456.00	4,707	261,483	6,519	0
17	12/10/2014	97.10	8,181.00	8,606.00	4,732	257,693	6,478	0
18	12/10/2014	98.70	8,164.00	8,527.00	5,617	256,778	6,567	0
19	12/11/2014	96.30	8,078.00	8,822.00	4,804	250,596	6,281	0
20	12/11/2014	99.70	8,085.00	8,388.00	4,279	251,624	6,416	0
21	12/11/2014	98.50	7,993.00	8,144.00	4,408	251,203	6,362	0
22	12/11/2014	99.70	8,106.00	8,616.00	5,238	251,687	6,492	0
23	12/12/2014	99.30	8,020.00	8,799.00	5,154	251,224	6,519	0
24	12/12/2014	99.60	8,028.00	8,263.00	5,249	251,541	6,284	0
25	12/12/2014	99.50	8,167.00	8,474.00	5,272	252,329	6,302	0
26	12/12/2014	100.10	8,466.00	8,735.00	5,461	250,648	6,552	0
27	12/12/2014	99.70	7,929.00	8,102.00	5,490	251,139	6,417	0
28	12/13/2014	99.80	7,839.00	8,066.00	5,475	250,373	6,438	0
29	12/13/2014	98.70	7,912.00	8,700.00	5,071	250,919	6,094	0
30	12/13/2014	99.50	7,825.00	8,020.00	5,516	251,068	6,122	0
31	12/13/2014	100.00	7,602.00	7,753.00	5,293	250,775	6,207	0
32	12/13/2014	99.50	7,537.00	7,776.00	4,806	251,371	6,082	0
33	12/13/2014	99.70	7,568.00	7,684.00	4,956	251,413	6,045	0
34	12/14/2014	99.50	7,608.00	7,767.00	4,941	250,579	6,005	0
35	12/14/2014	99.00	7,880.00	8,776.00	5,342	238,667	6,201	0
36	12/14/2014	99.80	7,590.00	7,933.00	5,111	250,763	6,161	0
37	12/14/2014	99.80	7,528.00	8,436.00	5,545	251,498	5,969	0
38	12/14/2014	99.50	7,675.00	7,938.00	5,707	250,006	6,546	0

06/12/2015

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/5/2014
Job End Date:	12/14/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06328-00-00
Operator Name:	EQT Production
Well Name and Number:	OXF156 - 513139
Longitude:	-80.78746400
Latitude:	39.22854900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,638
Total Base Water Volume (gal):	10,654,434
Total Base Non Water Volume:	484,586



## 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	FTSI	Carrier	Water	7732-18-5	100.00000	89.85436	
Sand	FTSI	Proppant	Crystalline Silica	14808-60-7	100.00000	9.67353	
Hydrochloric Acid 15%	FTSI	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.04939	
FRW-600	FTSI	Friction Reducer	Hydrotreated light distillate	54742-47-8	30.00000	0.02271	
B-10	FTSI	Buffer Agent	Ammonium acetate	531-61-8	6.00000	0.00454	
RVG-1	FTSI	Gel	Potassium carbonate	584-08-7	48.00000	0.00956	
			Potassium hydroxide	1310-58-3	20.00000	0.00398	
			Petroleum Distillate	64742-47-8	55.00000	0.00504	
			Guar Gum	9000-30-0	50.00000	0.00458	
			Surfactant	68439-51-0	2.00000	0.00018	
			Clay	14808-60-7	2.00000	0.00018	
			Biocide				

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				Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione	533-74-4	24.00000	0.00242
				Sodium Hydroxide	1310-73-2	4.00000	0.00040
CS-500-SI	FTSI	Scale Inhibitor		Ethylene Glycol	107-21-1	10.00000	0.00248
		Biocide		Chlorine Dioxide	10049-04-4	100.00000	0.00095
CI-150	FTSI	Corrosion Inhibitor		Isopropanol	67-63-0	30.00000	0.00018
				Organic amine resin salt	Proprietary	30.00000	0.00018
				Ethylene Glycol	107-21-1	30.00000	0.00018
				Aromatic aldehyde	Proprietary	10.00000	0.00006
				Dimethylformamide	68-12-2	10.00000	0.00006
				Quaternary ammonium compound	Proprietary	10.00000	0.00006
FE-100L	FTSI	Iron Control		Citric Acid	77-92-9	55.00000	0.00052
APB-1	FTSI	Gel Breaker		Ammonium Persulfate	7727-54-0	95.00000	0.00015
NE-100	FTSI	Non-Emulsifier		2-Propanol	67-63-0	10.00000	0.00003
				2-Butoxyethanol	111-76-2	10.00000	0.00003
				Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00002

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.

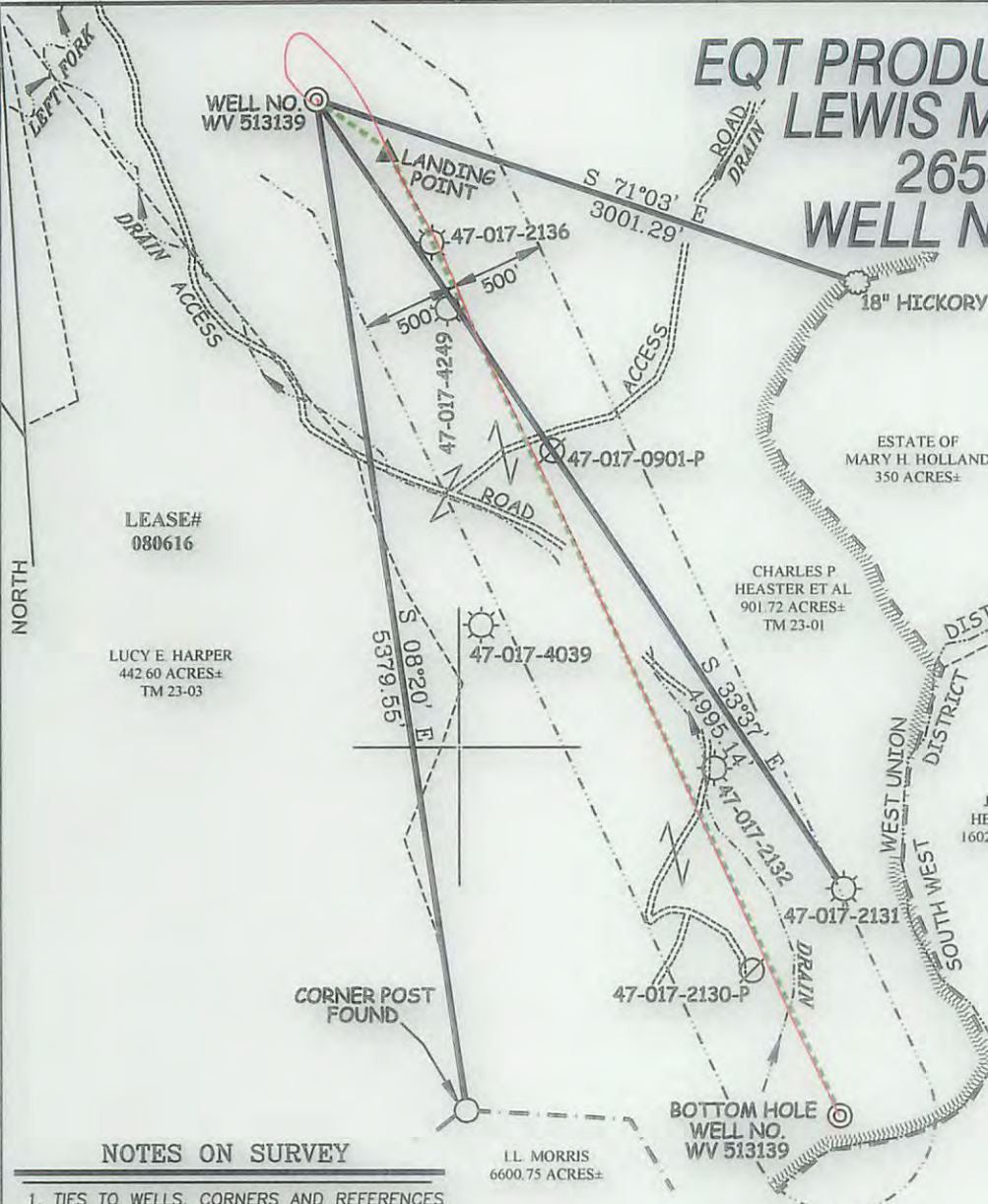
\* Total Water Volume sources may include fresh water, produced water, and/or recycled water  
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

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 513139

LONGITUDE 80°45'00"

7,844'



WELL NO. WV 513139  
STATE PLANE COORDINATES  
(NORTH ZONE) NAD 27

N. 267,935.8  
E. 1,635,240.4

LAT=(N) 39.228465  
LONG=(W) 80.787638

UTM (NAD83)(METERS)

N. 4,342,161.0  
E. 518,344.5

LANDING POINT  
WELL NO. WV 513139  
STATE PLANE COORDINATES  
(NORTH ZONE) NAD 27

N. 267,660.0  
E. 1,635,619.4

LAT=(N) 39.227722  
LONG=(W) 80.786286

UTM (NAD83)(METERS)

N. 4,342,078.8  
E. 518,461.3

BOTTOM HOLE  
WELL NO. WV 513139  
STATE PLANE COORDINATES  
(NORTH ZONE) NAD 27

N. 262,584.6  
E. 1,637,986.0

LAT=(N) 39.213882  
LONG=(W) 80.777678

UTM (NAD83)(METERS)

N. 4,340,544.7  
E. 519,208.1

### 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.

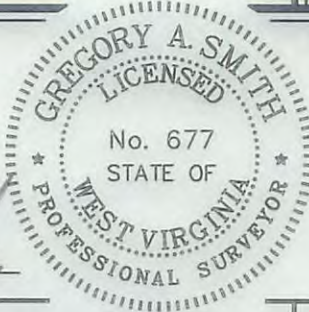


### AS DRILLED INFORMATION

BOTTOM HOLE WELL NO. WV 513139 STATE PLANE COORDINATES (NORTH ZONE) NAD 27	WELL NO. WV 513139 STATE PLANE COORDINATES (NORTH ZONE) NAD 27
N. 262,582.1 E. 1,637,981.8	N. 267,935.8 E. 1,635,240.4
LAT=(N) 39.213875 LONG=(W) 80.777693	LAT=(N) 39.228465 LONG=(W) 80.787638
UTM (NAD83)(METERS) N. 4,340,543.9 E. 519,208.8	UTM (NAD83)(METERS) N. 4,342,161.0 E. 518,344.5

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. 677  
*Gregory A. Smith*



(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 1, 20 13  
 REVISED DATE SEPTEMBER 05, 20 14  
 OPERATORS WELL NO. WV 513139  
 API WELL NO. 47-017-06328  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6980ASDRILLED513139  
 PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK)  
 SCALE 1" = 1000'

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: 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: 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 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

COUNTY NAME PERMIT

06/12/2015