

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

API 47 - 017 - 06506 County DODDRIDGE District Southwest
Quad OXFORD 7.5' Pad Name OXFORD 159 Field/Pool Name _____
Farm name JUSTIN L. HENDERSON ET AL Well Number 513701
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 4,339,877.3 Easting 520,551.1
Landing Point of Curve Northing 4,340,331.3 Easting 520,667.5
Bottom Hole Northing 4,342,739.4 Easting 519,495.3

Elevation (ft) 1,252 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)
Synthetic Oil Base Mud 12.5ppg, aliphatic based non-aqueous drilling fluid, barium sulfate, calcium chloride, organophylic clay, quaternary ammonium clay, gilsonite, blended emulsifier, wetting agent, blended graphite, hydrated lime, calcium carbonate, ground walnut shells, fibrous cellulose

Date permit issued 7/30/2014 Date drilling commenced 11/21/2014 Date drilling ceased 4/1/2015
Date completion activities began 7/11/2015 Date completion activities ceased 7/28/2015
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 264, 325, 401 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1312, 1379 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 246, 313, 474, 616, 732, 735 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____
02/05/2016

API 47- 017 - 06506 Farm name JUSTIN L. HENDERSON ET AL Well number 513701

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	A-500 40LB/FT	NONE	Y
Surface	17.5"	13.375"	1,100'	NEW	J-55 54.5LB/FT	272	Y
Coal							
Intermediate 1	12.375"	9.625"	5,286'	NEW	P-110 40LB/FT	1,604', 3,195', 4,306'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	16605	NEW	P-110 20LB/FT	NONE	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	833	15.6	1.20	999.6	0	8
Coal							
Intermediate 1	CLASS A / A / A	397 / 368 / 1,118	14.2 / 15.6 / 15.6	1.24 / 1.18 / 1.18	2,245.76	0	8
Intermediate 2							
Intermediate 3							
Production	Class A 50/50 POZ / H	545 / 1155	14.2 / 15.2	1.26 / 1.97	2962	4960'	8
Tubing							

Drillers TD (ft) 16618 Loggers TD (ft) _____

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 5960'

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- NONE

SURFACE- JOINTS: 1,13

INTERMEDIATE- RAN AT LEAST EVERY 500' FEET JOINTS: 1, 13, 25, 37, 49, 61, 73, 85, 97, 109, 121

PRODUCTION- Ran every joint from 16604' to 5254'

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 017 - 06506 Farm name JUSTIN L. HENDERSON ET AL Well number 513701

Drilling Contractor Patterson UTI
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Phoenix Technology Services
Address 1805 Brittmoore Road City Houston State TX Zip 77043

Logging Company Gyro Data Inc.
Address 601 Mayer St. City Bridgeville State PA Zip 15017

Cementing Company Nabors
Address 2504 Smith Creek Road City Waynesburg State PA Zip 15370

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Well #513701 Final Formations				
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	411	411
SAND/SHALE	1	1	256	256
WASHINGTON COAL	256	256	258	258
SAND/SHALE	258	258	323	323
WAYNESBURG A COAL	323	323	325	325
SAND/SHALE	325	325	484	484
UNIONTOWN COAL	484	484	486	486
SAND/SHALE	486	486	626	626
SEWICKLEY	626	626	628	628
SAND/SHALE	628	628	742	742
REDSTONE COAL	742	742	743	743
SAND/SHALE	743	743	745	745
PITTSBURGH COAL	745	745	749	749
SAND/SHALE	749	749	2,030.00	2,029.80
BIG LIME	2,030.00	2,029.80	2,174.00	2,173.80
SAND/SHALE	2,174.00	2,173.80	2,323.00	2,322.80
WEIR	2,323.00	2,322.80	2,437.00	2,436.80
SAND/SHALE	2,437.00	2,436.80	2,531.00	2,530.70
GANTZ	2,531.00	2,530.70	2,608.00	2,607.70
50F	2,608.00	2,607.70	2,684.00	2,683.70
SAND/SHALE	2,684.00	2,683.70	2,730.00	2,729.70
30F	2,730.00	2,729.70	2,765.00	2,764.70
SAND/SHALE	2,765.00	2,764.70	2,779.00	2,778.70
GORDON	2,779.00	2,778.70	2,870.00	2,869.60
4TH SAND	2,870.00	2,869.60	3,051.00	3,050.50
BAYARD	3,051.00	3,050.50	3,151.00	3,150.50
SAND/SHALE	3,151.00	3,150.50	3,388.00	3,387.30
WARREN	3,388.00	3,387.30	3,447.00	3,446.30
SAND/SHALE	3,447.00	3,446.30	3,459.00	3,458.30
SPEECHLEY	3,459.00	3,458.30	3,703.00	3,702.10
SAND/SHALE	3,703.00	3,702.10	4,139.00	4,137.30
BALLTOWN A	4,139.00	4,137.30	4,253.00	4,250.80
SAND/SHALE	4,253.00	4,250.80	4,338.00	4,335.50
RILEY	4,338.00	4,335.50	4,484.00	4,481.00
SAND/SHALE	4,484.00	4,481.00	5,009.00	5,004.10
BENSON	5,009.00	5,004.10	5,049.00	5,044.00
SAND/SHALE	5,049.00	5,044.00	5,180.00	5,174.70
ALEXANDER	5,180.00	5,174.70	6,211.00	6,194.40
RHINESTREET UPPER	6,211.00	6,194.40	6,362.00	6,316.00
RHINESTREET	6,362.00	6,316.00	6,470.00	6,384.30
SONYEA	6,470.00	6,384.30	6,862.00	6,536.30
MIDDLESEX	6,862.00	6,536.30	7,008.00	6,587.90
GENESSEE	7,008.00	6,587.90	7,204.00	6,656.10
GENESIO	7,204.00	6,656.10	7,352.00	6,705.50
TULLY	7,352.00	6,705.50	7,470.00	6,736.70
HAMILTON	7,470.00	6,736.70	7,590.00	6,757.40
MARCELLUS	7,590.00	6,757.40		

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513701 - 47-017-06506-0000- Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	7/11/2015	16,604.00	16,605.00	10	MARCELLUS
1	7/11/2015	16,435.00	16,550.00	42	MARCELLUS
2	7/12/2015	16,271.00	16,393.00	42	MARCELLUS
3	7/12/2015	16,091.00	16,213.00	42	MARCELLUS
4	7/13/2015	15,911.00	16,033.00	42	MARCELLUS
5	7/13/2015	15,731.00	15,853.00	42	MARCELLUS
6	7/13/2015	15,551.00	15,673.00	42	MARCELLUS
7	7/13/2015	15,371.00	15,495.00	42	MARCELLUS
8	7/14/2015	15,191.00	15,313.00	42	MARCELLUS
9	7/14/2015	15,011.00	15,133.00	42	MARCELLUS
10	7/14/2015	14,835.00	14,953.00	42	MARCELLUS
11	7/15/2015	14,651.00	14,773.00	42	MARCELLUS
12	7/15/2015	14,471.00	14,593.00	42	MARCELLUS
13	7/15/2015	14,291.00	14,413.00	42	MARCELLUS
14	7/15/2015	14,111.00	14,233.00	42	MARCELLUS
15	7/15/2015	13,931.00	14,051.00	42	MARCELLUS
16	7/16/2015	13,751.00	13,871.00	42	MARCELLUS
17	7/16/2015	13,571.00	13,693.00	42	MARCELLUS
18	7/16/2015	13,391.00	13,513.00	42	MARCELLUS
19	7/16/2015	13,211.00	13,333.00	42	MARCELLUS
20	7/16/2015	13,031.00	13,152.00	42	MARCELLUS
21	7/17/2015	12,842.00	12,957.00	42	MARCELLUS
22	7/17/2015	12,669.00	12,793.00	42	MARCELLUS
23	7/17/2015	12,491.00	12,613.00	42	MARCELLUS
24	7/17/2015	12,311.00	12,433.00	42	MARCELLUS
25	7/17/2015	12,131.00	12,253.00	42	MARCELLUS
26	7/18/2015	11,951.00	12,073.00	42	MARCELLUS
27	7/18/2015	11,771.00	11,893.00	42	MARCELLUS
28	7/18/2015	11,591.00	11,713.00	42	MARCELLUS
29	7/18/2015	11,411.00	11,537.00	42	MARCELLUS
30	7/18/2015	11,231.00	11,353.00	42	MARCELLUS
31	7/19/2015	11,053.00	11,173.00	42	MARCELLUS
32	7/19/2015	10,871.00	10,993.00	42	MARCELLUS
33	7/19/2015	10,691.00	10,813.00	42	MARCELLUS
34	7/19/2015	10,511.00	10,633.00	42	MARCELLUS
35	7/19/2015	10,331.00	10,453.00	42	MARCELLUS
36	7/20/2015	10,151.00	10,304.00	42	MARCELLUS
37	7/20/2015	9,971.00	10,093.00	42	MARCELLUS
38	7/20/2015	9,791.00	9,915.00	42	MARCELLUS
39	7/20/2015	9,611.00	9,731.00	42	MARCELLUS
40	7/20/2015	9,431.00	9,551.00	42	MARCELLUS
41	7/20/2015	9,251.00	9,373.00	42	MARCELLUS
42	7/21/2015	9,071.00	9,193.00	42	MARCELLUS
43	7/21/2015	8,891.00	9,013.00	42	MARCELLUS
44	7/21/2015	8,711.00	8,831.00	42	MARCELLUS
45	7/21/2015	8,531.00	8,651.00	42	MARCELLUS
46	7/21/2015	8,351.00	8,471.00	42	MARCELLUS
47	7/22/2015	8,171.00	8,293.00	42	MARCELLUS
48	7/22/2015	7,991.00	8,111.00	42	MARCELLUS
49	7/28/2015	7,811.00	7,971.00	42	MARCELLUS
50	7/28/2015	7,629.00	7,751.00	42	MARCELLUS

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513701 - 47-017-06506-0000- 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)
1.01	7/12/2015	16.4	5,948.00	6,436.00	3,413.00	0	1030	0
1	7/12/2015	91.1	7,968.00	8,462.00	3,996.00	296,662	8747	0
2	7/12/2015	74.4	7,411.00	7,975.00	3,909.00	276,174	7752	0
3	7/13/2015	70.8	7,091.00	7,718.00	3,755.00	300,727	8054	0
4	7/13/2015	88.7	8,022.00	8,700.00	4,153.00	303,450	8667	0
5	7/13/2015	82.5	8,098.00	8,901.00	4,895.00	260,362	8055	0
6	7/13/2015	79.6	7,448.00	7,894.00	3,827.00	362,033	9099	0
7	7/13/2015	87.4	8,191.00	8,733.00	5,121.00	318,933	9465	0
8	7/14/2015	85.5	7,861.00	8,502.00	4,424.00	309,384	8792	0
9	7/14/2015	80.3	8,108.00	8,894.00	5,194.00	353,378	9146	0
10	7/14/2015	80	7,953.00	8,509.00	5,106.00	359,877	9901	0
11	7/15/2015	83.2	7,818.00	8,260.00	4,859.00	352,921	8838	0
12	7/15/2015	97	8,210.00	9,077.00	5,358.00	361,771	9052	0
13	7/15/2015	97.4	8,123.00	9,079.00	5,335.00	345,936	8707	0
14	7/15/2015	91.6	8,148.00	8,525.00	4,718.00	359,705	8409	0
15	7/15/2015	84.9	7,979.00	8,525.00	4,173.00	360,608	8981	0
16	7/16/2015	84.8	7,990.00	8,512.00	5,121.00	310,925	8210	0
17	7/16/2015	75.2	8,153.00	8,547.00	5,309.00	297,849	8249	0
18	7/16/2015	85.1	7,915.00	8,466.00	5,067.00	357,696	8504	0
19	7/16/2015	86.1	8,306.00	8,848.00	4,818.00	338,151	9163	0
20	7/16/2015	88.8	7,863.00	8,613.00	5,100.00	359,494	8597	0
21	7/17/2015	88.30	7,876.00	8,403.00	5,674	359,899	8,583	0
22	7/17/2015	98.00	8,125.00	8,375.00	5,195	358,607	8,237	0
23	7/17/2015	97.30	8,221.00	8,833.00	5,066	360,224	8,417	0
24	7/17/2015	89.60	7,853.00	8,281.00	5,106	361,010	8,445	0
25	7/17/2015	90.40	7,787.00	8,026.00	4,530	360,180	8,444	0
26	7/18/2015	90.30	7,871.00	8,233.00	4,928	362,172	8,504	0
27	7/18/2015	100.00	8,116.00	8,348.00	4,886	360,844	8,100	0
28	7/18/2015	99.1	8,141.00	8,397.00	4,956.00	361,793	8171	0
29	7/18/2015	93.1	7,973.00	8,750.00	5,170.00	361,074	8435	0
30	7/18/2015	100	8,154.00	8,586.00	5,235.00	359,689	8267	0
31	7/19/2015	99.6	8,307.00	8,854.00	5,155.00	360,077	8260	0
32	7/19/2015	101.30	8,102.00	8,541.00	5,140	358,841	7,928	0
33	7/19/2015	100.10	7,875.00	8,729.00	5,181	360,214	7,850	0
34	7/19/2015	101.00	8,038.00	9,058.00	4,965	360,114	8,187	0
35	7/20/2015	98.40	7,912.00	8,336.00	5,092	361,025	8,783	0
36	7/20/2015	99.40	8,178.00	8,543.00	5,473	358,530	8,115	0
37	7/20/2015	101.50	8,142.00	8,931.00	4,812	361,354	7,830	0
38	7/20/2015	100.30	7,977.00	8,123.00	4,968	360,290	9,012	0
39	7/20/2015	99.30	8,066.00	8,669.00	4,972	359,975	7,910	0
40	7/20/2015	99.90	8,248.00	8,526.00	5,183	361,052	7,956	0
41	7/21/2015	99.00	7,985.00	8,894.00	4,978	361,801	8,219	0
42	7/21/2015	99.90	7,886.00	8,561.00	5,096	360,150	7,841	0
43	7/21/2015	101.20	8,129.00	8,748.00	5,232	292,382	6,969	0
44	7/21/2015	100.70	7,857.00	8,389.00	5,202	361,011	7,994	0
45	7/21/2015	99.90	7,980.00	9,199.00	5,045	353,014	8,246	0
46	7/22/2015	99.30	7,821.00	8,220.00	5,116	361,619	8,292	0
47	7/22/2015	99.70	7,720.00	8,088.00	5,378	351,049	7,850	0
48	7/27/2015	96.40	7,947.00	8,902.00	5,399	362,732	8,852	0
49	7/28/2015	98.00	8,173.00	8,919.00	4,906	347,483	8,663	0
50	7/28/2015	98.70	7,533.00	8,033.00	5,257	362,959	7,687	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/11/2015
Job End Date:	7/28/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06506-00-00
Operator Name:	EQT Production
Well Name and Number:	513701
Longitude:	-80.76214300
Latitude:	39.20783600
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,757
Total Base Water Volume (gal):	17,701,530
Total Base Non Water Volume:	0

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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	89.13199	None
Sand (Proppant)	FTS International	Proppant	Crystalline Silica	14808-60-7	100.00000	10.44295	None
MC MX 437-5	Multi-Chem Group LLC	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05713	None
FRW-900	FTS International	Friction reducer	Hydrotreated light distillate	64742-47-8	30.00000	0.02425	None
			Alkyl Alcohol	Proprietary	10.00000	0.00808	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00404	None
Hydrochloric Acid (15%)	FTS International	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03233	None
HVG-1	FTS International	Water Gelling agent	Petroleum distillate	64742-47-8	55.00000	0.00372	None
			Guar gum	9000-30-0	50.00000	0.00338	None
			Surfactant	68439-51-0	2.00000	0.00014	None
			Clay	14808-60-7	2.00000	0.00014	None
CS-500-SI	FTS International	Scale inhibitor					

FE-100L	FTS International	Iron control	Ethylene glycol	107-21-1	10.00000	0.00248	None
			Citric acid	77-92-9	55.00000	0.00059	None
CI-150	FTS International	Acid Corrosion Inhibitor					
			Isopropanol	67-63-0	30.00000	0.00014	None
			Organic amine resin salt	Proprietary	30.00000	0.00014	None
			Ethylene glycol	107-21-1	30.00000	0.00014	None
			Quaternary ammonium compound	Proprietary	10.00000	0.00005	None
			Aromatic aldehyde	Proprietary	10.00000	0.00005	None
			Dimethylformamide	68-12-2	10.00000	0.00005	None
APB-1	FTS International	Gel Breaker					
			Ammonium persulfate	7727-54-0	95.00000	0.00007	None
NE-100	FTS International	Non-emulsifier					
			2-Propanol	67-63-0	10.00000	0.00003	None
			2-Butoxyethanol	111-76-2	10.00000	0.00003	None
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00001	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)

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LEGEND

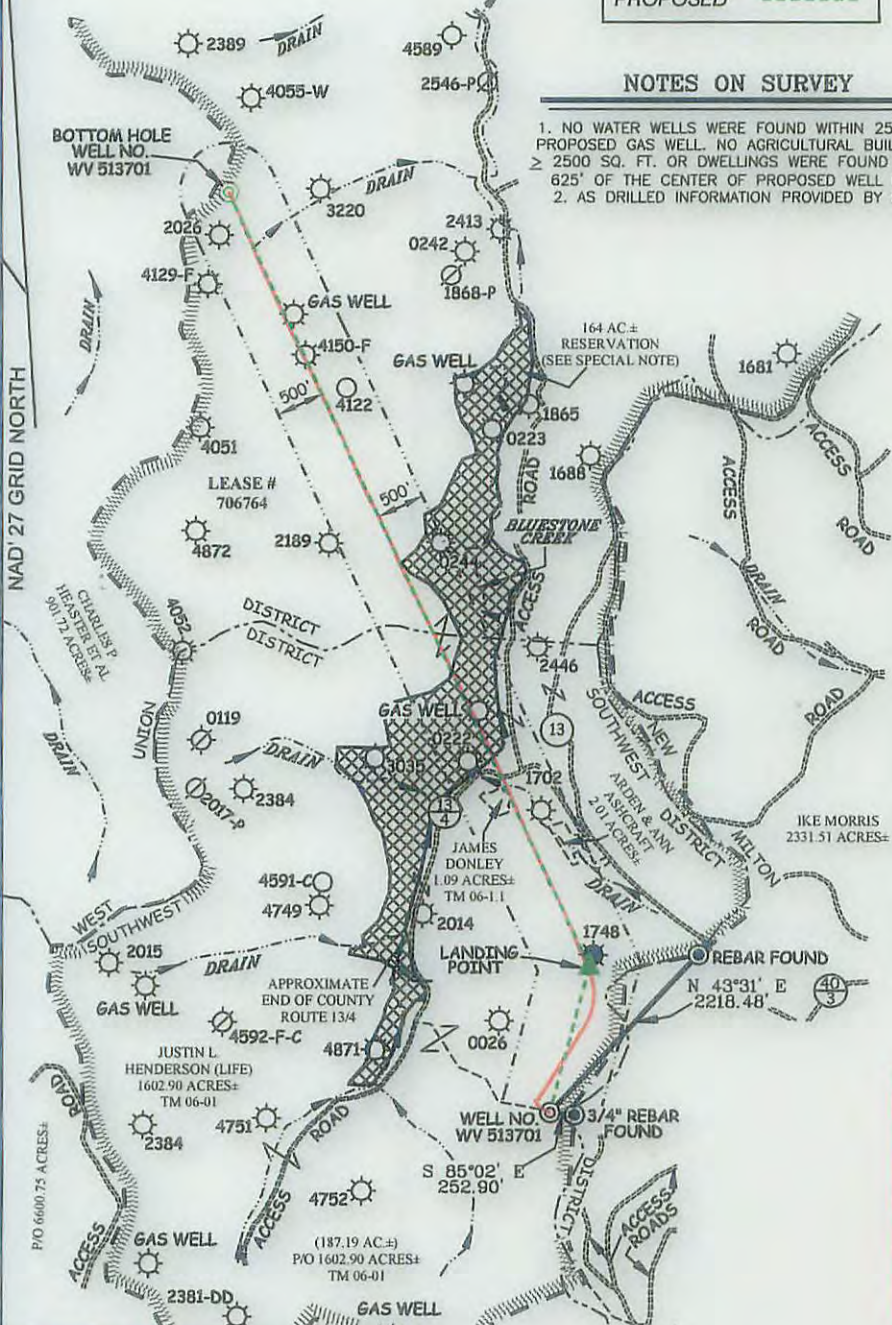
AS DRILLED (red dashed line)
PROPOSED (green dashed line)

NOTES ON SURVEY

- 1. 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.
2. AS DRILLED INFORMATION PROVIDED BY EQT.

SPECIAL NOTE

THERE IS NO SURVEY OR LEGAL DESCRIPTION DEFINING THE ACTUAL LOCATION OF THE 164 ACRE MEADOWLAND RESERVATION. DUE TO THE PASSAGE OF TIME SINCE THE RESERVATION WAS CREATED IT APPEARS THERE IS NO LIVING PERSON(S) WITH KNOWLEDGE OF ITS TRUE LOCATION. LOCATION OF RESERVATION SHOWN HEREON COMPILED FROM: "A" A MAP TITLED "CARNAGIE NATURAL GAS CO. LEEMAN MAXWELL LEASES, DODDRIDGE COUNTY, WEST VA" "B" PERIMETER OF RESERVATION AS SHOWN BY GLENN TRADER "CARETAKER OF HENDERSONS" PORTION OF MAXWELL LANDS" WHICH WAS LOCATED USING A MAPPING GRADE GPS RECEIVER "C" DETAILS SHOWN ON 1939 USDA AERIAL PHOTOGRAPHY OBTAINED FROM THE WV GEOLOGICAL SURVEY. SLS RECOMMENDS THAT PROPER LEGAL STEPS BE TAKEN TO CONFIRM CONCURRENCE OF ALL APPROPRIATE PARTIES RELATIVE TO THE RESERVATION AS SHOWN HEREON. THIS PLAT IS SUBJECT TO ANY ADDITIONAL INFORMATION (UNDISCOVERED TO DATE) WHICH MAY CHANGE THE LOCATION AND/OR CONFIGURATION OF THE RESERVATION AS SHOWN HEREON.



EQT PRODUCTION COMPANY
LEEMAN MAXWELL LEASE
2,164 ACRES ±
WELL NO. WV 513701

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

NAD'27 S.P.C.(FT) N. 260,320.8 E. 1,642,356.6
NAD'27 GEO. LAT-(N) 39.207836 LONG-(W) 80.762142
NAD'83 UTM (M) N. 4,339,877.3 E. 520,551.1

LANDING POINT

NAD'27 S.P.C.(FT) N. 281,804.3 E. 1,642,763.4
NAD'27 GEO. LAT-(N) 39.211925 LONG-(W) 80.760780
NAD'83 UTM (M) N. 4,340,331.3 E. 520,667.5

BOTTOM HOLE

NAD'27 S.P.C.(FT) N. 269,770.8 E. 1,639,048.6
NAD'27 GEO. LAT-(N) 39.233651 LONG-(W) 80.774288
NAD'83 UTM (M) N. 4,342,739.4 E. 519,495.3

AS DRILLED COORDINATES
FOR WELL NO. WV 513701

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

NAD'27 S.P.C.(FT) N. 260,320.8 E. 1,642,356.6
NAD'27 GEO. LAT-(N) 39.207836 LONG-(W) 80.762142
NAD'83 UTM (M) N. 4,339,877.3 E. 520,551.1

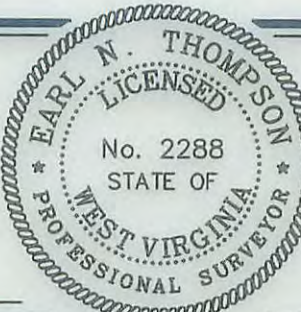
BOTTOM HOLE

NAD'27 S.P.C.(FT) N. 269,771.2 E. 1,639,050.7
NAD'27 GEO. LAT-(N) 39.233653 LONG-(W) 80.774281
NAD'83 UTM (M) N. 4,342,739.5 E. 519,495.9

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
SLS
(304) 462-5834 WWW.SLSURVEYS.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. 2288 Earl N. Thompson



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JANUARY 06, 20 14
REVISED 03/24/14 & 04/07/15
OPERATORS WELL NO. WV 513701
API WELL NO. 47 - 017 - 06506-H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7889AD513701
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 SHALLOW X
LOCATION: ELEVATION 1,278(GROUND) 1,252(PROPOSED) WATERSHED BLUESTONE CREEK
DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'
SURFACE OWNER JUSTIN L. HENDERSON (LIFE) ACREAGE 187.19 OF 1,602.90±
ROYALTY OWNER LEEMAN MAXWELL HRS ACREAGE 2,164±
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 MARCELLUS ESTIMATED DEPTH 6,663'

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

02/05/2016