

APPROVED

NAME: Michael Duff
DATE: 1/27/16

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

API 47-085-10137 County RITCHIE District UNION
Quad OXFORD 7.5' Pad Name OXF163 Field/Pool Name _____
Farm name HAROLD K. PIERCE Well Number 513761
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 4,331,876.0 Easting 513,590.2
Landing Point of Curve Northing 4,331,990.6 Easting 513,857.5
Bottom Hole Northing 4,329,651.9 Easting 514,701.3

Elevation (ft) 1159 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 w/o Flowback
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)
Water base Mud 12.5 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 9/22/2014 Date drilling commenced 12/3/2014 Date drilling ceased 5/19/2015
Date completion activities began 9/22/2015 Date completion activities ceased 10/4/2015
Verbal plugging (Y/N) N Date permission granted N/A Granted by 02/29 2015 N/A

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

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Freshwater depth(s) ft 176',453',517' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1156' Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
WS 02/02/16 Acid
02/05/2016

API 47-085 - 10137 Farm name HAROLD K. PIERCE Well number 513761

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 78.7LB/FT	NONE	Y
Surface	17.5"	13.375"	1057'	NEW	J-55 54.5LB/FT	551'	Y
Coal							
Intermediate 1	12.375"	9.625"	3032'	NEW	A-500 40LB/FT	1769'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	15356'	NEW	P-110 20LB/FT	NONE	N
Tubing							
Packer type and depth set							

Comment Details N/A

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	803	15.6	1.18	948.9	0	8
Coal							
Intermediate 1	CLASS A	1031	15.6	1.18	1218.5	0	8
Intermediate 2							
Intermediate 3							
Production	Class A / Class H	680/1070	14.2 / 15.2	1.26 / 1.97	2964.7	2,829' MD	72
Tubing							

Drillers TD (ft) 15,371' MD Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 4,749' MD

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, 11, 21 _____

INTERMEDIATE- RAN AT LEAST EVERY 500' FEET _____

PRODUCTION- 270 Composite Centralizers. One on every joint from TD to 4,000 MD _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47- 085 - 10137 Farm name HAROLD K. PIERCE Well number 513761

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

Logging Company GYRODATA
Address 601 MAYER ST City BRIDGEVILLE State PA Zip 15017

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company C&J Energy Services
Address 1650 Hackers Creek Rd City Jane Lew State WV Zip 26378

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API 47-085-10137

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	0	0	520	520
SAND/SHALE	520	520	1,774	1,774
MAXTON	1,774	1,774	1,955	1,955
BIG LIME	1,955	1,955	2,244	2,244
WEIR	2,244	2,244	2,472	2,472
GANTZ	2,472	2,472	2,567	2,567
50F	2,567	2,567	2,653	2,653
30F	2,653	2,653	2,715	2,715
GORDON	2,715	2,715	2,803	2,803
4TH	2,803	2,803	2,959	2,959
BAYARD	2,959	2,959	3,299	3,299
WARREN	3,299	3,299	3,352	3,352
SPEECHLEY	3,352	3,352	3,846	3,846
BALLTOWN A	3,846	3,846	4,430	4,430
RILEY	4,430	4,430	4,767	4,767
BENSON	4,767	4,767	5,100	5,084
ALEXANDER	5,100	5,084	6,536	6,216
SONYEA	6,536	6,216	6,710	6,351
MIDDLESEX	6,710	6,351	6,785	6,403
GENESSEE	6,785	6,403	6,902	6,471
GENESEO	6,902	6,471	6,991	6,511
TULLY	6,991	6,511	7,026	6,524
HAMILTON	7,026	6,524	7,056	6,534
MARCELLUS	7,056	6,534	15,371	6,575

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513761- 47-085-10137-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	9/21/2015	15,354	15,356	10	MARCELLUS
1	9/22/2015	15,209	15,302	32	MARCELLUS
2	9/22/2015	15,059	15,181	40	MARCELLUS
3	9/23/2015	14,910	15,001	40	MARCELLUS
4	9/23/2015	14,759	14,881	40	MARCELLUS
5	9/23/2015	14,606	14,731	40	MARCELLUS
6	9/23/2015	14,459	14,581	40	MARCELLUS
7	9/24/2015	14,309	14,431	40	MARCELLUS
8	9/24/2015	14,159	14,281	40	MARCELLUS
9	9/24/2015	14,009	14,131	40	MARCELLUS
10	9/24/2015	13,859	13,981	40	MARCELLUS
11	9/25/2015	13,710	13,831	40	MARCELLUS
12	9/25/2015	13,559	13,651	40	MARCELLUS
13	9/25/2015	13,409	13,531	40	MARCELLUS
14	9/26/2015	13,259	13,381	40	MARCELLUS
15	9/26/2015	13,109	13,231	40	MARCELLUS
16	9/26/2015	12,959	13,081	40	MARCELLUS
17	9/26/2015	12,809	12,931	40	MARCELLUS
18	9/27/2015	12,659	12,781	40	MARCELLUS
19	9/27/2015	12,508	12,631	40	MARCELLUS
20	9/27/2015	12,359	12,481	40	MARCELLUS
21	9/27/2015	12,209	12,331	40	MARCELLUS
22	9/27/2015	12,059	12,181	40	MARCELLUS
23	9/28/2015	11,909	12,031	40	MARCELLUS
24	9/28/2015	11,759	11,881	40	MARCELLUS
25	9/28/2015	11,609	11,731	40	MARCELLUS
26	9/28/2015	11,459	11,581	40	MARCELLUS
27	9/28/2015	11,309	11,431	40	MARCELLUS
28	9/29/2015	11,159	11,281	40	MARCELLUS
29	9/29/2015	11,009	11,128	40	MARCELLUS
30	9/29/2015	10,859	10,981	40	MARCELLUS
31	9/29/2015	10,709	10,827	40	MARCELLUS
32	9/30/2015	10,559	10,681	40	MARCELLUS
33	9/30/2015	10,409	10,531	40	MARCELLUS
34	9/30/2015	10,259	10,381	40	MARCELLUS
35	9/30/2015	10,109	10,231	40	MARCELLUS
36	9/30/2015	9,959	10,076	40	MARCELLUS
37	9/30/2015	9,809	9,931	40	MARCELLUS
38	10/1/2015	9,659	9,781	40	MARCELLUS
39	10/1/2015	9,509	9,631	40	MARCELLUS
40	10/1/2015	9,359	9,481	40	MARCELLUS
41	10/1/2015	9,209	9,331	40	MARCELLUS
42	10/2/2015	9,059	9,181	40	MARCELLUS
43	10/2/2015	8,909	9,031	40	MARCELLUS
44	10/2/2015	8,759	8,881	40	MARCELLUS
45	10/3/2015	8,609	8,731	40	MARCELLUS
46	10/3/2015	8,459	8,581	40	MARCELLUS
47	10/3/2015	8,309	8,431	40	MARCELLUS
48	10/3/2015	8,159	8,281	40	MARCELLUS
49	10/3/2015	8,009	8,129	40	MARCELLUS
50	10/4/2015	7,859	7,981	40	MARCELLUS
51	10/4/2015	7,709	7,831	40	MARCELLUS
52	10/4/2015	7,559	7,681	40	MARCELLUS
53	10/4/2015	7,409	7,528	40	MARCELLUS
54	10/4/2015	7,259	7,381	40	MARCELLUS
55	10/4/2015	7,109	7,231	40	MARCELLUS

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513761 47-085-10137-0000 - 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	9/22/2015	12.3	7,774	8,877	4,268	0	821	0
1	9/22/2015	88.9	8,691	9,007	3,337	251,340.00	7,530	0
2	9/23/2015	97.7	8,726	8,877	4,477	252,120.00	6,951	0
3	9/23/2015	92.6	8,402	8,562	3,689	252,900.00	7,512	0
4	9/23/2015	96.9	8,396	8,676	3,479	249,180.00	6,764	0
5	9/23/2015	93.1	8,512	8,894	3,865	251,260.00	6,581	0
6	9/24/2015	97.3	8,625	8,976	3,964	251,120.00	6,674	0
7	9/24/2015	94.5	8,398	8,734	3,498	250,850.00	6,254	0
8	9/24/2015	95.8	8,483	8,837	3,659	248,260.00	6,196	0
9	9/24/2015	98	8,727	8,983	3,768	248,380.00	6,544	0
10	9/25/2015	99.2	8,635	8,867	3,979	250,160.00	6,632	0
11	9/25/2015	99.7	8,685	8,956	3,727	251,940.00	6,477	0
12	9/25/2015	99.6	8,585	8,825	3,684	249,520.00	6,534	0
13	9/25/2015	100	8,580	8,809	4,236	250,640.00	6,593	0
14	9/26/2015	101	8,435	8,611	4,023	253,920.00	7,159	0
15	9/26/2015	101.3	8,704	8,962	4,163	251,450.00	6,283	0
16	9/26/2015	99	8,634	8,936	4,472	253,160.00	6,245	0
17	9/27/2015	100.7	8,535	8,727	4,231	251,400.00	6,495	0
18	9/27/2015	100.3	8,578	8,807	3,777	255,100.00	6,224	0
19	9/27/2015	100.7	8,364	8,564	3,833	249,700.00	6,131	0
20	9/27/2015	100.3	8,145	8,566	3,737	250,955.00	6,041	0
21	9/27/2015	100.9	8,245	8,392	4,307	250,170.00	6,287	0
22	9/28/2015	100.9	8,218	8,378	4,856	253,540.00	6,421	0
23	9/28/2015	100.3	8,212	8,359	4,391	250,840.00	6,350	0
24	9/28/2015	97.8	8,405	8,877	3,835	250,920.00	6,034	0
25	9/28/2015	100.7	8,210	8,373	3,787	248,590.00	6,180	0
26	9/28/2015	100.9	8,001	8,305	3,711	251,136.00	6,122	0
27	9/28/2015	100.1	7,960	8,126	3,642	249,978.00	6,171	0
28	9/29/2015	100.1	7,922	8,128	3,679	250,793.00	6,090	0
29	9/29/2015	100.4	7,931	8,151	3,571	255,167.00	6,155	0
30	9/29/2015	100.6	8,094	8,336	3,941	250,480.00	6,512	0
31	9/29/2015	100.4	8,200	8,424	3,860	252,505.00	6,180	0
32	9/30/2015	100.2	7,919	8,038	4,114	249,595.00	5,914	0
33	9/30/2015	102.1	7,858	8,081	3,936	251,358.00	6,093	0
34	9/30/2015	101.3	7,661	8,067	3,337	255,235.00	6,020	0
35	9/30/2015	100.1	7,811	8,263	3,290	253,430.00	5,931	0
36	9/30/2015	100.1	7,729	7,899	3,573	251,851.00	6,494	0
37	10/1/2015	100.2	7,751	8,174	3,620	251,736.00	6,159	0
38	10/1/2015	102.2	7,799	8,135	3,583	253,067.00	5,893	0
39	10/1/2015	102	7,725	8,620	3,449	250,960.00	5,859	0
40	10/1/2015	102.2	7,657	7,962	3,546	248,884.00	5,893	0
41	10/1/2015	100.6	7,379	7,767	3,627	250,815.00	5,981	0
42	10/2/2015	100.4	7,808	8,356	3,504	250,197.00	5,961	0
43	10/2/2015	101	7,461	8,352	3,948	251,640.00	5,906	0
44	10/3/2015	100.3	7,502	8,169	4,887	244,253.00	7,175	0
45	10/3/2015	100.8	7,355	7,744	4,814	250,563.00	6,121	0
46	10/3/2015	100.9	7,524	7,837	4,858	250,930.00	6,084	0
47	10/3/2015	101.2	7,516	8,447	3,565	251,480.00	5,679	0
48	10/3/2015	101.4	7,492	8,012	3,543	250,870.00	5,604	0
49	10/3/2015	100.6	7,578	8,307	3,212	249,692.00	5,878	0
50	10/4/2015	101.2	7,353	7,732	3,702	251,540.00	5,630	0
51	10/4/2015	102.1	7,388	7,857	3,785	252,280.00	5,600	0
52	10/4/2015	101.5	7,223	7,898	4,030	249,060.00	5,851	0
53	10/4/2015	100.5	7,617	8,523	3,612	251,550.00	5,822	0
54	10/4/2015	101.3	7,031	7,754	3,273	252,370.00	5,750	0
55	10/4/2015	101.2	6,958	8,044	3,357	252,400.00	5,703	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/22/2015
Job End Date:	10/4/2015
State:	West Virginia
County:	Ritchie
API Number:	47-085-10137-00-00
Operator Name:	EQT Production
Well Name and Number:	513761
Longitude:	-80.84292600
Latitude:	39.13587300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,534
Total Base Water Volume (gal):	14,454,048
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	Keane Group	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	89.37056	None
Sand (Proppant)	Keane Group	Proppant					
			Silica Substrate	14808-60-7	100.00000	10.23467	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution					
			Calcium nitrate	10124-37-5	60.00000	0.05730	None
Hydrochloric Acid (15%)	Keane Group	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.03115	None
FFR760	Keane Group	Friction Reducer					
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.01982	None
			Alkyl Alcohol	Proprietary	10.00000	0.00661	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00330	None
EG3304	Keane Group	Scale Inhibitor					
			Ethylene Glycol	107-21-1	5.00000	0.00125	None
			Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00125	None
AI 600	Keane Group	Corrosion Inhibitor					
			Ethylene Glycol	107-21-1	40.00000	0.00020	None
			Dimethylformamide	68-12-2	20.00000	0.00010	None

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		Pyridine, alkyl derives, quaternized with benzyl chloride	68909-18-2	15.00000	0.00008	None
		Cinnamialdehyde	104-55-2	15.00000	0.00008	None
		Nonyl Phenol Ethoxylate, Branched	127087-87-0	5.00000	0.00003	None
		1-Octanol	111-87-5	5.00000	0.00003	None
		1-Decanol	112-30-1	5.00000	0.00003	None
		2-Butoxyethanol	111-76-2	5.00000	0.00003	None
		Triethyl Phosphate	78-40-0	2.50000	0.00001	None
		Methanol	67-56-1	2.50000	0.00001	None
		Alkyl Pyridine	68391-11-7	1.00000	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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AS DRILLED COORDINATES FOR WELL NO. WV 513761

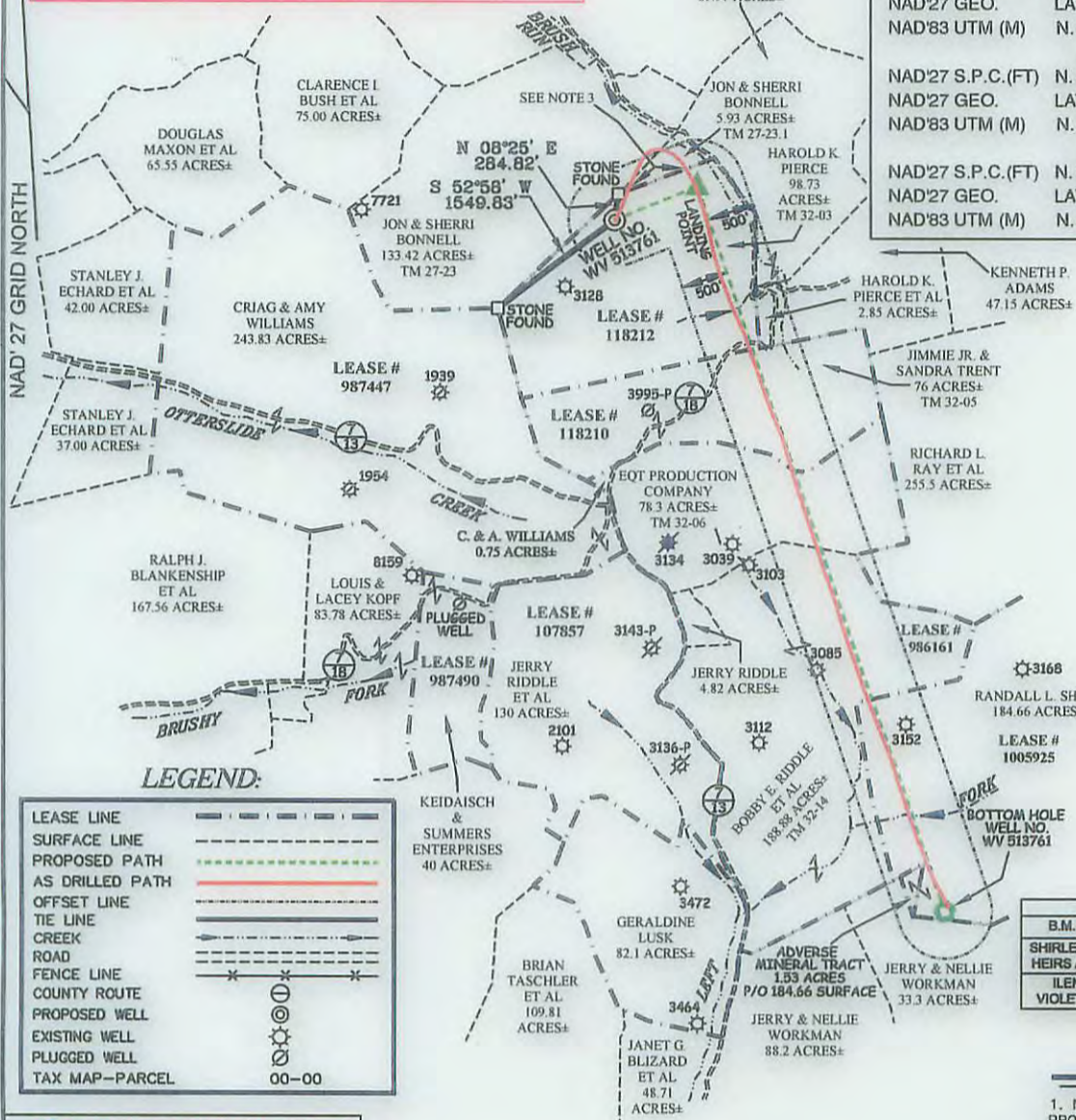
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD27 S.P.C.(FT)	N. 234,445.3	E. 1,619,075.4
NAD27 GEO.	LAT-(N) 39.135873	LONG-(W) 80.842926
NAD83 UTM (M)	N. 4,331,876.0	E. 513,590.2
BOTTOM HOLE		
NAD27 S.P.C.(FT)	N. 227,125.2	E. 1,622,645.6
NAD27 GEO.	LAT-(N) 39.115923	LONG-(W) 80.829960
NAD83 UTM (M)	N. 4,329,664.1	E. 514,715.0

**EQT PRODUCTION COMPANY
J.E. PIERCE ET AL LEASE
108 (98.73±) ACRES±
WELL NO. WV 513761
(OXF163 H6)**

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

NAD27 S.P.C.(FT)	N. 234,445.3	E. 1,619,075.4
NAD27 GEO.	LAT-(N) 39.135873	LONG-(W) 80.842926
NAD83 UTM (M)	N. 4,331,876.0	E. 513,590.2
LANDING POINT		
NAD27 S.P.C.(FT)	N. 234,806.8	E. 1,619,959.1
NAD27 GEO.	LAT-(N) 39.136901	LONG-(W) 80.839830
NAD83 UTM (M)	N. 4,331,990.6	E. 513,857.5
BOTTOM HOLE		
NAD27 S.P.C.(FT)	N. 227,085.9	E. 1,622,600.0
NAD27 GEO.	LAT-(N) 39.115813	LONG-(W) 80.830118
NAD83 UTM (M)	N. 4,329,651.9	E. 514,701.3



ROYALTY OWNERS		
B.M. PIERCE ET UX	84.50 AC.±	LEASE NO. 118210
SHIRLEY & RUTH RIDDLE HEIRS AND/OR ASSIGNS	272 AC.±	LEASE NO. 986161
ILENE BECKETT & VIOLET MOSSER ET AL	183.16 AC.±	LEASE NO. 1006925

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.
3. NONPRODUCTIVE SUBSURFACE RIGHT OF WAY.

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
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ENGINEERS
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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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 3, 20 14
REVISED 08/22/14, 10/27/14, 10/31/14, 12/05/14, 04/14/15, 05/19/15, 06/08/15, 06/15/15 & 06/17/15
OPERATORS WELL NO. WV 513761
API WELL NO. 47 - 085 - 10137H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7698AD513761R
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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,158.4'(ACTUAL) WATERSHED BRUSH RUN OF MIDDLE FORK
DISTRICT UNION COUNTY RITCHIE QUADRANGLE OXFORD 7.5'

SURFACE OWNER HAROLD K. PIERCE ACREAGE 98.73±
ROYALTY OWNER J.E. PIERCE ET AL ACREAGE 108± (98.73±)

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 TVD 6495'

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

08/05/2016