

APPROVED
NAME: Michael Jeff
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 47-085-10132 County RITCHIE District UNION
Quad OXFORD 7.5' Pad Name OXF163 Field/Pool Name _____
Farm name HAROLD K. PIERCE Well Number 513756
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 4,331,892.5 Easting 513,606.0
Landing Point of Curve Northing 4,331,837.7 Easting 513,660.2
Bottom Hole Northing 4,329,696.7 Easting 514,395.6

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 6/23/2015
Date completion activities began 8/26/2015 Date completion activities ceased 9/10/2015
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 176',453',517' Open mine(s) (Y/N) depths _____
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 DEC 0 8 2015
Is coal being mined in area (Y/N) N

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Reviewed by: WS 02/01/16 AX
02/05/2016

API 47-085 - 10132 Farm name HAROLD K. PIERCE Well number 513756

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"	1059'	NEW	J-55 54.5LB/FT	425'	Y
Coal							
Intermediate 1	12.375"	9.625"	3024'	NEW	A-500 40LB/FT	1840'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	14,547'	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	890	15.6	1.18	1050.2	0	8
Coal							
Intermediate 1	CLASS A	1105	15.6	1.18	1303.9	0	8
Intermediate 2							
Intermediate 3							
Production	Class H / Class H	615/995	14.2 / 15.2	1.23/1.95	2696.7	3,900' MD	72
Tubing							

Drillers TD (ft) 14,547' MD Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Plug back to (ft) 4531

Plug back procedure Drilled pilot hole to 8650', TOOH to 6050' and pump 152 sks/32 bbls Class A 14.2 ppg, TOOH to 5566' and pump 152 sks/32 bbls Class A 14.2 ppg, TOOH to 5216' and pump 152 sks/32 bbls Class A 14.2, then TOOH to 4380' and pump 118 sks/23.6 bbls Class A 16 ppg cement with Allied Services.

Kick off depth (ft) 4,600' 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- 245 Composite Centralizers. One on every joint from TD to 4,000 MD _____

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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API 47- 085 - 10132 Farm name HAROLD K. PIERCE Well number 513756

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 Lee Street E City Charleston State WV Zip 25301

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

Logging Company _____ Weatherford International
Address _____ 121 Hillpointe Dr City _____ Canonsburg State _____ PA Zip _____ 15317

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API 47-085-10132

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	2,714
GORDON	2,715	2,714	2,803	2,802
4TH	2,803	2,802	2,959	2,958
BAYARD	2,959	2,958	3,299	3,298
WARREN	3,299	3,298	3,352	3,351
SPEECHLEY	3,352	3,351	3,846	3,845
BALLTOWN A	3,846	3,845	4,430	4,429
RILEY	4,430	4,429	4,767	4,764
BENSON	4,767	4,764	5,100	5,095
ALEXANDER	5,100	5,095	6,355	6,214
SONYEA	6,355	6,214	6,517	6,350
MIDDLESEX	6,517	6,350	6,707	6,470
GENESEO	6,707	6,470	6,797	6,512
TULLY	6,797	6,512	6,831	6,524
HAMILTON	6,831	6,524	6,863	6,534
MARCELLUS	6,863	6,534	14,550	6,564

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513756- 47-085-10132-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	8/26/2015	14,545	14,547	10	MARCELLUS
1	8/26/2015	14,401	14,493	32	MARCELLUS
2	8/27/2015	14,251	14,373	40	MARCELLUS
3	8/27/2015	14,101	14,223	40	MARCELLUS
4	8/27/2015	13,951	14,073	40	MARCELLUS
5	8/28/2015	13,802	13,923	40	MARCELLUS
6	8/30/2015	13,651	13,773	40	MARCELLUS
7	8/30/2015	13,501	13,623	40	MARCELLUS
8	8/31/2015	13,351	13,473	40	MARCELLUS
9	8/31/2015	13,201	13,323	40	MARCELLUS
10	9/1/2015	13,051	13,173	40	MARCELLUS
11	9/1/2015	12,901	13,021	40	MARCELLUS
12	9/1/2015	12,751	12,871	40	MARCELLUS
13	9/1/2015	12,601	12,723	40	MARCELLUS
14	9/1/2015	12,451	12,573	40	MARCELLUS
15	9/2/2015	12,301	12,421	40	MARCELLUS
16	9/2/2015	12,151	12,271	40	MARCELLUS
17	9/2/2015	12,001	12,123	40	MARCELLUS
18	9/3/2015	11,853	11,973	40	MARCELLUS
19	9/3/2015	11,701	11,821	40	MARCELLUS
20	9/3/2015	11,551	11,671	40	MARCELLUS
21	9/3/2015	11,401	11,523	40	MARCELLUS
22	9/3/2015	11,253	11,373	40	MARCELLUS
23	9/4/2015	11,101	11,223	40	MARCELLUS
24	9/4/2015	10,951	11,071	40	MARCELLUS
25	9/4/2015	10,801	10,921	40	MARCELLUS
26	9/4/2015	10,651	10,773	40	MARCELLUS
27	9/5/2015	10,501	10,623	40	MARCELLUS
28	9/5/2015	10,351	10,471	40	MARCELLUS
29	9/5/2015	10,201	10,321	40	MARCELLUS
30	9/5/2015	10,051	10,173	40	MARCELLUS
31	9/6/2015	9,905	10,021	40	MARCELLUS
32	9/6/2015	9,751	9,871	40	MARCELLUS
33	9/6/2015	9,601	9,721	40	MARCELLUS
34	9/6/2015	9,451	9,573	40	MARCELLUS
35	9/6/2015	9,301	9,423	40	MARCELLUS
36	9/7/2015	9,151	9,271	40	MARCELLUS
37	9/7/2015	9,001	9,121	40	MARCELLUS
38	9/7/2015	8,853	8,973	40	MARCELLUS
39	9/7/2015	8,701	8,823	40	MARCELLUS
40	9/8/2015	8,551	8,672	40	MARCELLUS
41	9/8/2015	8,401	8,523	40	MARCELLUS
43	9/8/2015	8,101	8,217	40	MARCELLUS
42	9/8/2015	8,251	8,371	40	MARCELLUS
44	9/9/2015	7,951	8,071	40	MARCELLUS
45	9/9/2015	7,801	7,918	40	MARCELLUS
46	9/9/2015	7,651	7,771	40	MARCELLUS
47	9/9/2015	7,506	7,621	40	MARCELLUS
48	9/10/2015	7,351	7,471	40	MARCELLUS
49	9/10/2015	7,201	7,323	40	MARCELLUS
50	9/10/2015	7,051	7,173	40	MARCELLUS
51	9/10/2015	6,901	7,022	40	MARCELLUS

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513756-47-085-10132-0000 - 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	8/26/2015	35.7	8,088	8,792	4,669			0
1	8/26/2015	89.7	8,830	9,172	2,243	250,131.00	862	0
2	8/27/2015	89.8	8,752	9,071	4,547	237,279.00	7,505	0
3	8/27/2015	101.3	8,515	8,862	3,844	250,560.00	6,546	0
4	8/27/2015	101.3	8,651	8,980	3,900	250,135.00	6,630	0
5	8/30/2015	101.8	8,573	8,832	3,736	250,058.00	6,722	0
6	8/30/2015	101.5	8,425	8,636	4,138	251,274.00	6,732	0
7	8/31/2015	101.8	8,526	8,704	3,924	253,463.00	6,435	0
8	8/31/2015	94.4	8,595	10,014	8,995	250,061.00	6,198	0
9.01	8/31/2015	6.3	4,250	6,152				0
9	8/31/2015	100.7	8,728	9,246	5,189	250,960.00	6,813	0
10	9/1/2015	101	8,543	8,790	4,053	249,840.00	6,474	0
11	9/1/2015	101.3	8,293	8,696	5,451	245,460.00	6,350	0
12	9/1/2015	101.1	8,313	8,665	5,409	246,250.00	6,927	0
13	9/1/2015	99.6	8,323	8,615	4,890	249,260.00	6,516	0
14	9/2/2015	100.9	7,859	8,301	5,109	258,800.00	6,651	0
15	9/2/2015	100.5	7,850	8,092	4,633	253,900.00	6,779	0
16	9/2/2015	100.8	8,018	9,060	5,378	250,480.00	6,573	0
17	9/2/2015	101.7	7,610	7,816	3,807	250,240.00	6,552	0
18	9/3/2015	101	7,852	8,163	3,843	250,640.00	6,486	0
19	9/3/2015	101.8	7,457	7,787	5,303	254,300.00	6,403	0
20	9/3/2015	101.2	7,724	7,928	4,992	246,490.00	6,654	0
21	9/3/2015	101.2	7,336	7,791	4,511	250,420.00	6,639	0
22	9/4/2015	100.2	7,769	7,955	3,751	254,420.00	6,299	0
23	9/4/2015	100.5	7,471	7,654	4,547	250,280.00	6,521	0
24	9/4/2015	100.1	7,603	8,728	4,622	251,790.00	6,320	0
25	9/4/2015	100.9	7,672	8,224	3,327	250,670.00	6,280	0
26	9/4/2015	101.5	7,650	8,045	3,926	249,940.00	6,273	0
27	9/5/2015	100.7	7,646	7,848	4,320	252,760.00	6,194	0
28	9/5/2015	100.5	7,582	8,465	4,529	251,420.00	6,281	0
29	9/5/2015	100.6	7,478	7,806	3,607	251,040.00	6,223	0
30	9/5/2015	101.1	7,860	8,244	3,857	250,810.00	6,179	0
31	9/6/2015	101.4	7,530	7,886	4,221	249,180.00	6,130	0
32	9/6/2015	100.3	7,367	7,561	3,712	247,180.00	6,281	0
33	9/6/2015	100.6	7,608	8,137	3,986	253,970.00	6,404	0
34	9/6/2015	101.1	8,145	8,874	4,525	252,210.00	6,173	0
35	9/7/2015	101	8,177	9,191	3,658	251,870.00	6,071	0
36	9/7/2015	102.2	7,195	7,423	3,424	246,630.00	6,335	0
37	9/7/2015	102.1	7,429	7,745	3,287	251,734.00	6,229	0
38	9/7/2015	101.4	7,385	7,641	3,300	250,428.00	6,003	0
39	9/8/2015	101.5	7,450	7,768	4,816	252,330.00	6,010	0
40	9/8/2015	101.8	7,165	7,455	3,206	251,780.00	6,137	0
41	9/8/2015	101.5	6,895	7,101	3,236	250,612.00	6,048	0
42	9/8/2015	101.3	7,274	7,460	3,492	250,099.00	6,111	0
43	9/8/2015	100.9	7,282	7,900	4,547	251,540.00	6,213	0
44	9/9/2015	100.8	7,035	7,399	3,886	254,263.00	6,277	0
45	9/9/2015	101.2	6,848	7,098	3,410	250,789.00	5,901	0
46	9/9/2015	101.9	6,865	7,003	3,622	249,750.00	5,828	0
47	9/9/2015	101.6	6,759	7,218	3,127	251,140.00	6,013	0
48	9/10/2015	103.1	6,906	7,244	3,020	252,640.00	6,021	0
49	9/10/2015	101.6	6,833	7,438	3,287	252,447.00	5,532	0
50	9/10/2015	101.3	6,942	7,295	3,180	250,363.00	5,223	0
51	9/10/2015	100.4	7,066	8,304	3,278	258,537.00	5,713	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/26/2015
Job End Date:	9/10/2015
State:	West Virginia
County:	Ritchie
API Number:	47-085-10132-00-00
Operator Name:	EQT Production
Well Name and Number:	513756
Longitude:	-80.84274300
Latitude:	39.13602100
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,534
Total Base Water Volume (gal):	13,300,140
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	89.31979	None
Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100.00000	10.29496	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05841	None
FFR760	Keane Group	Friction Reducer	Hydrotreated Light Distillate	64742-47-8	30.00000	0.02077	None
			Alkyl Alcohol	Proprietary	10.00000	0.00692	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00346	None
Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.02887	None
66330A	Keane Group	Scale Inhibitor	Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00128	None
			Ethylene Glycol	107-21-1	5.00000	0.00128	None
	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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		Cinnamialdehyde	104-55-2	15.00000	0.00008	None
		Pyridine, alkyl derives, quaternized with benzyl chloride	68909-18-2	15.00000	0.00008	None
		1-Octanol	111-87-5	5.00000	0.00003	None
		2-Butoxyethanol	111-76-2	5.00000	0.00003	None
		1-Decanol	112-30-1	5.00000	0.00003	None
		Nonyl Phenol Ethoxylate, Branched	127087-87-0	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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ROYALTY OWNERS

B.M. PIERCE ET UX	84.50 AC.±	LEASE NO. 118210
SHIRLEY & RUTH RIDDLE HEIRS AND/OR ASSIGNS	272 AC.±	LEASE NO. 989161

LATITUDE 39°10'00"

EQT PRODUCTION COMPANY
J.E. PIERCE ET AL LEASE
108(98.73±) ACRES±
WELL NO. WV 513756
(OXF163 H1)

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

NAD'27 S.P.C.(FT)	N. 234,498.6	E. 1,619,128.2
NAD'27 GEO.	LAT-(N) 39.136021	LONG-(W) 80.842743
NAD'83 UTM (M)	N. 4,331,892.5	E. 513,606.0

LANDING POINT

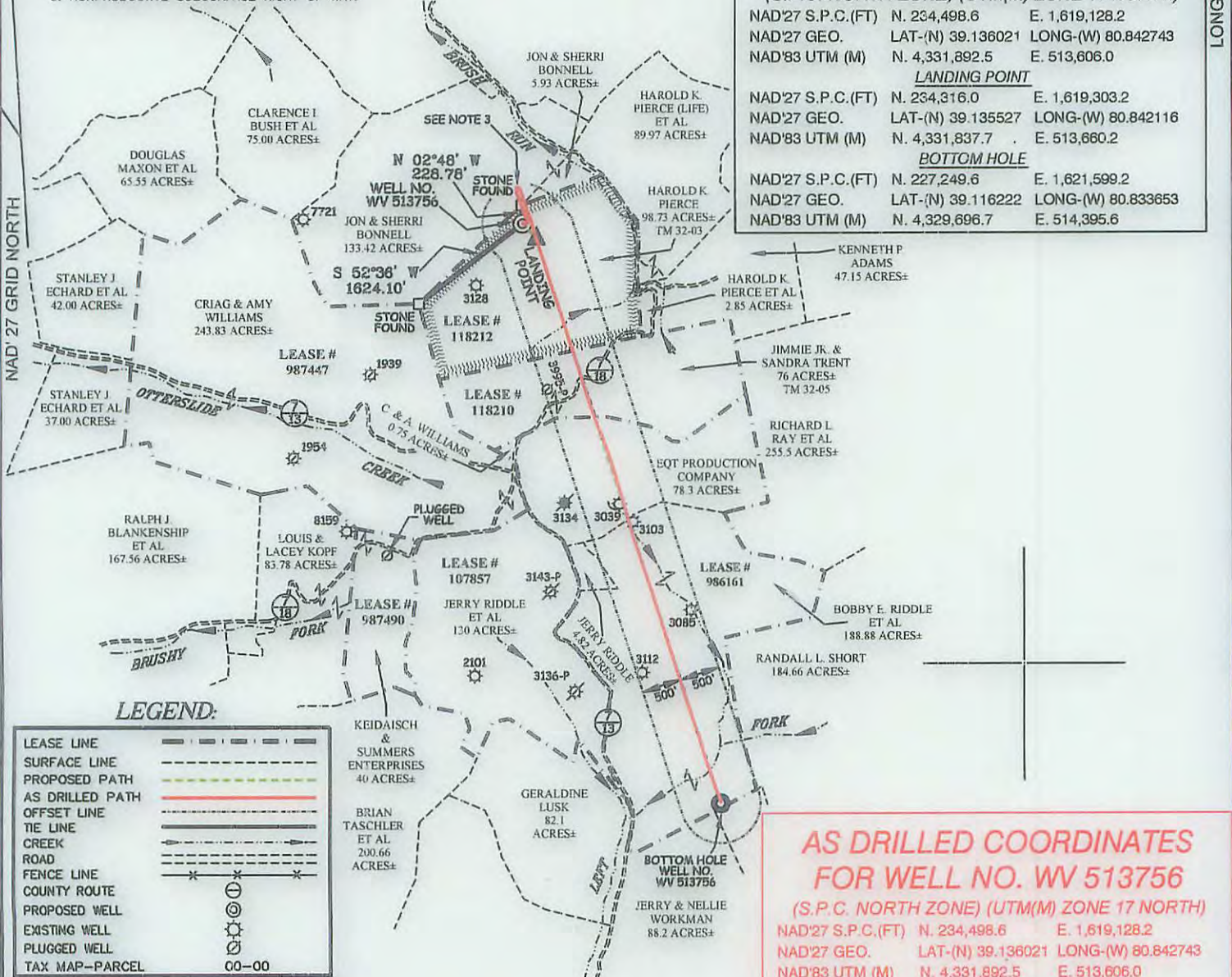
NAD'27 S.P.C.(FT)	N. 234,316.0	E. 1,619,303.2
NAD'27 GEO.	LAT-(N) 39.135527	LONG-(W) 80.842116
NAD'83 UTM (M)	N. 4,331,837.7	E. 513,660.2

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 227,249.6	E. 1,621,599.2
NAD'27 GEO.	LAT-(N) 39.116222	LONG-(W) 80.833653
NAD'83 UTM (M)	N. 4,329,696.7	E. 514,395.6

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.



LEGEND:

LEASE LINE	---
SURFACE LINE	----
PROPOSED PATH	---
AS DRILLED PATH	---
OFFSET LINE	---
TIE LINE	---
CREEK	---
ROAD	---
FENCE LINE	---
COUNTY ROUTE	---
PROPOSED WELL	⊙
EXISTING WELL	⊙
PLUGGED WELL	⊙
TAX MAP-PARCEL	00-00

AS DRILLED COORDINATES FOR WELL NO. WV 513756

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

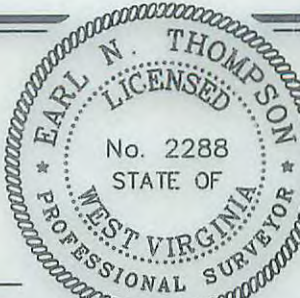
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NAD'83 UTM (M)	N. 4,331,892.5	E. 513,606.0

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 227,252.2	E. 1,621,608.6
NAD'27 GEO.	LAT-(N) 39.116229	LONG-(W) 80.833621
NAD'83 UTM (M)	N. 4,329,697.5	E. 514,398.4

Professional Energy Consultants
 A DIVISION OF SMITH LAND SURVEYING, INC.

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 ENVIRONMENTAL
 PROJECT MGMT.
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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. 2288 *Earl N. Thompson*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MAY 27, 20 14
 REVISED 07/30/14, 10/27/14 & 12/03/15
 OPERATORS WELL NO. WV 513756
 API WELL NO. 47-085-10132H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7698AD513756
 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 1,175(GROUND)1,158.5(PROPOSED) 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: LEASE NO. 118212
 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

02/05/2016

LONGITUDE 80°50'00" PERMIT