

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

API 47-085-10087 County RITCHIE District UNION  
Quad OXFORD 7.5' Pad Name OXF122 Field/Pool Name \_\_\_\_\_  
Farm name RICHARD L. & SHERYL A. RAY Well Number 512427  
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 4,331,479.83 Easting 514,626.35  
Landing Point of Curve Northing 4,331,362.92 Easting 514,868.59  
Bottom Hole Northing 4,328,484.17 Easting 515,865.91

Elevation (ft) 1111 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

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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 11.5 ppg Synthetic Base Mud 11.5 ppg, banam 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 04/11/2014 Date drilling commenced 10/06/2014 Date drilling ceased 05/06/2016  
Date completion activities began 7/5/2017 Date completion activities ceased 7/28/2017  
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 236' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft NONE Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 939' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED** Reviewed by: \_\_\_\_\_  
NAME: Michael Daff 02/16/2018  
DATE: 10-25-17

API 47-085 - 10087 Farm name RICHARD L. & SHERYL A. RAY Well number 512427

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"	1053'	NEW	J-55 54.5LB/FT	249',545'	Y
Coal							
Intermediate 1	12.375"	9.625"	2993'	NEW	A-500 40LB/FT	1049',1598'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	17466'	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 <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	832	15.6	1.19	990.08	0	8
Coal							
Intermediate 1	CLASS A	1085	15.6	1.18	1280.3	0	8
Intermediate 2							
Intermediate 3							
Production	Class H/Class H	300/571/1436	12.5/15.2/15.6	1.72/1.10/1.84	3786	2350	72
Tubing							

Drillers TD (ft) 17469' Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) 4483'  
 Plug back procedure Pump 37 bb/ 190 sks of 16.2 ppg Class A cement. Plugged from 4483'-5127'

Kick off depth (ft) 4510'

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

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DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
 CONDUCTOR- NONE  
 SURFACE- JOINTS: 1,12,23  
 INTERMEDIATE- RAN AT LEAST EVERY 500' FEET  
 PRODUCTION- Composite body centralizers run every joint from shoe to 4000' and one at 2900'

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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- 085 - 10087 Farm name RICHARD L. & SHERYL A. RAY Well number 512427

**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

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Please insert additional pages as applicable.

API 47- 085 - 10087 Farm name RICHARD L. & SHERYL A. RAY Well number 512427

PRODUCING FORMATION(S)	DEPTH(S)	
Marcellus	6461	TVD 6866 MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface 1,928 psi Bottom Hole N/A psi DURATION OF TEST 87.50 hrs  
 OPEN FLOW Gas 11,091 mcfpd Oil N/A bpd NGL 107 bpd Water 835 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	
	0		0		

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Please insert additional pages as applicable.

Drilling Contractor ALPHA HUNTER DRILLING (RIG 4 & 6)  
 Address P.O. BOX 430 City RENO State OH Zip 45773  
 Logging Company GYRODATA INC.  
 Address 601 MAYER ST. City BRIDGEVILLE State PA Zip 15017  
 Cementing Company C&J Service  
 Address 2504 SMITH CREEK ROAD City WAYNESBURG State PA Zip 15370  
 Stimulating Company U.S. Well Services  
 Address 770 South Post Oak Lane, Suite 410 City Houston State TX Zip 77056

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Please insert additional pages as applicable.

Completed by Michael Rehl Telephone (412) 553-5815  
 Signature [Signature] Title Mgr Completions Date 9/28/2017

API 47- 085 - 10087 Farm name RICHARD L. & SHERYL A. RAY Well number 512427

Drilling Contractor Pioneer Drilling  
Address 1083 N. Eighty Eight Rd City Rices Landing State PA Zip 15357

Logging Company Professional Directional  
Address 103 Suds Run Rd City Mt Clare State WV Zip 26408

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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OXF122 512427 API#: 47-085-10087

Final Formations				
Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
SAND/SHALE	1	1	939	939
COAL	939	939	942	942
SAND/SHALE	942	942	1698	1698
MAXTON	1698	1698	1881	1881
BIG LIME	1881	1881	2156	2156
WEIR	2156	2156	2370	2370
BEREA	2370	2370	2381	2381
GANTZ	2381	2381	2475	2475
50F	2475	2475	2631	2631
GORDON	2631	2631	2894	2894
BAYARD	2894	2894	3214	3214
WARREN	3214	3214	3272	3272
SPEECHLEY	3272	3272	3771	3771
BALLTOWN A	3771	3771	4349	4349
RILEY	4349	4349	4689	4686
BENSON	4689	4686	5021	4991
ALEXANDER	5021	4991	6302	6139
SONYEA	6302	6139	6465	6271
MIDDLESEX	6465	6271	6542	6323
GENESSEE	6542	6323	6688	6401
GENESEO	6688	6401	6788	6440
TULLY	6788	6440	6828	6451
HAMILTON	6828	6451	6866	6461
MARCELLUS	6866	6461	17469	6606

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02/16/2018

**512427 47-085-10087-0000 - Perforations**

<b>Stage Number</b>	<b>Perforation Date</b>	<b>Top Perf Depth (ftKB)</b>	<b>Bottom Perf Depth (ftKB)</b>	<b>Number of Shots</b>	<b>Formation</b>
<b>Initiation Sleeve</b>	6/15/2016	17,439	17,466	10	MARCELLUS
1	7/5/2017	17,278	17,400	32	MARCELLUS
2	7/5/2017	17,078	17,240	40	MARCELLUS
3	7/6/2017	16,718	17,040	40	MARCELLUS
4	7/7/2017	16,518	16,680	40	MARCELLUS
5	7/7/2017	16,318	16,480	40	MARCELLUS
6	7/8/2017	16,118	16,280	40	MARCELLUS
7	7/8/2017	15,918	16,080	40	MARCELLUS
8	7/8/2017	15,718	15,880	40	MARCELLUS
9	7/8/2017	15,518	15,680	40	MARCELLUS
10	7/9/2017	15,318	15,480	40	MARCELLUS
11	7/9/2017	15,118	15,280	40	MARCELLUS
12	7/9/2017	14,918	15,080	40	MARCELLUS
13	7/9/2017	14,718	14,880	40	MARCELLUS
14	7/10/2017	14,518	14,680	40	MARCELLUS
15	7/10/2017	14,318	14,480	40	MARCELLUS
16	7/12/2017	14,118	14,280	40	MARCELLUS
17	7/13/2017	13,918	14,080	40	MARCELLUS
18	7/13/2017	13,718	13,880	40	MARCELLUS
19	7/13/2017	13,518	13,680	40	MARCELLUS
20	7/13/2017	13,318	13,480	40	MARCELLUS
21	7/13/2017	13,118	13,280	40	MARCELLUS
22	7/14/2017	12,918	13,080	40	MARCELLUS
23	7/14/2017	12,718	12,880	40	MARCELLUS
24	7/14/2017	12,518	12,680	40	MARCELLUS
25	7/14/2017	12,318	12,480	40	MARCELLUS
26	7/15/2017	12,118	12,280	40	MARCELLUS
27	7/15/2017	11,918	12,080	40	MARCELLUS
28	7/15/2017	11,718	11,880	40	MARCELLUS
29	7/16/2017	11,518	11,680	40	MARCELLUS
30	7/16/2017	11,318	11,480	40	MARCELLUS
31	7/16/2017	11,118	11,280	40	MARCELLUS
32	7/16/2017	10,918	11,080	40	MARCELLUS
33	7/17/2017	10,718	10,880	40	MARCELLUS
34	7/17/2017	10,518	10,680	40	MARCELLUS
35	7/17/2017	10,318	10,480	40	MARCELLUS
36	7/17/2017	10,118	10,280	40	MARCELLUS
37	7/17/2017	9,918	10,080	40	MARCELLUS
38	7/18/2017	9,718	9,880	40	MARCELLUS
39	7/18/2017	9,518	9,680	40	MARCELLUS
40	7/18/2017	9,318	9,480	40	MARCELLUS
41	7/18/2017	9,118	9,280	40	MARCELLUS
42	7/18/2017	8,918	9,080	40	MARCELLUS
43	7/18/2017	8,718	8,880	40	MARCELLUS
44	7/19/2017	8,518	8,680	40	MARCELLUS
45	7/19/2017	8,318	8,480	40	MARCELLUS
46	7/19/2017	8,118	8,280	40	MARCELLUS
47	7/19/2017	7,918	8,080	40	MARCELLUS
48	7/19/2017	7,718	7,880	40	MARCELLUS
49	7/20/2017	7,518	7,692	40	MARCELLUS
50	7/28/2017	7,318	7,480	40	MARCELLUS
51	7/28/2017	7,118	7,280	40	MARCELLUS
52	7/28/2017	6,918	7,080	40	MARCELLUS

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**512427 47-085-10087-0000 - 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 (bbbls)	Amount of Nitrogen/other (units)
Initiation Sleeve	7/5/2017	8	7,305	9,034	4,623	0	2,905	0
1	7/5/2017	87	9,288	9,481	3,220	450300	9,495	0
2	7/5/2017	82	8,757	9,393	3,334	450300	10,077	0
3	7/6/2017	37	9,206	9,845	4,937	5700	3,486	0
3	7/6/2017	75	8,759	9,559	4,030	675200	15,879	0
4	7/7/2017	83	8,956	9,218	3,874	447200	9,190	0
5	7/7/2017	83	9,065	9,421	3,927	450000	9,169	0
6	7/8/2017	98	9,073	9,317	4,311	448000	8,935	0
7	7/8/2017	96	9,117	9,339	5,125	447100	8,920	0
8	7/8/2017	94	8,844	9,340	5,147	450000	8,807	0
9	7/9/2017	85	8,974	9,363	3,976	450500	9,223	0
10	7/9/2017	96	9,042	9,261	3,930	451300	8,992	0
11	7/9/2017	91	8,990	9,263	3,862	452500	9,471	0
12	7/9/2017	86	8,792	9,169	4,063	450000	8,897	0
13	7/9/2017	91	9,022	9,282	4,036	451200	8,795	0
14	7/10/2017	98	9,064	9,328	4,484	451600	8,722	0
15	7/12/2017	83	8,620	9,416	4,142	451800	8,346	0
16	7/12/2017	87	8,651	9,201	4,219	450000	8,244	0
17	7/13/2017	85	8,616	9,272	4,175	451900	8,127	0
18	7/13/2017	98	9,017	9,333	4,339	451800	8,752	0
19	7/13/2017	93	9,149	9,461	4,803	451400	8,639	0
20	7/13/2017	92	8,551	9,004	4,197	450600	8,339	0
21	7/13/2017	87	8,457	8,904	4,179	450000	7,820	0
22	7/14/2017	95	8,606	9,052	4,047	451100	7,833	0
23	7/14/2017	99	8,838	9,118	4,292	450800	7,930	0
24	7/14/2017	82	8,255	8,795	3,982	448500	7,811	0
25	7/15/2017	89	8,381	9,108	3,952	451000	7,860	0
26	7/15/2017	99	8,894	9,185	4,135	450100	7,710	0
27	7/15/2017	100	8,690	9,071	4,111	450200	7,672	0
28	7/15/2017	92	8,679	9,281	3,654	452000	7,877	0
29	7/16/2017	93	8,329	8,808	3,833	453500	7,866	0
30	7/16/2017	100	8,850	9,134	4,207	450200	7,571	0
31	7/16/2017	90	8,142	8,802	3,810	448500	7,777	0
32	7/16/2017	89	8,607	9,067	3,819	449000	7,803	0
33	7/17/2017	95	8,354	8,993	4,270	448000	7,787	0
34	7/17/2017	100	8,642	8,845	4,111	451400	7,633	0
35	7/17/2017	97	8,914	9,151	4,270	451100	7,594	0
36	7/17/2017	97	8,351	8,660	4,277	446900	7,474	0
37	7/17/2017	88	8,659	9,065	3,900	451500	7,466	0
38	7/18/2017	100	8,371	8,814	3,897	450500	7,557	0
39	7/18/2017	99	8,335	8,724	4,165	452700	7,432	0
40	7/18/2017	100	8,142	8,362	4,176	450100	7,450	0
41	7/18/2017	97	8,097	9,206	4,276	450800	7,399	0
42	7/18/2017	100	8,229	8,628	3,808	447300	7,406	0
43	7/18/2017	95	7,686	7,926	3,990	449500	7,275	0
44	7/19/2017	100	8,062	8,624	3,976	449700	7,323	0
45	7/19/2017	99	7,986	8,433	4,022	449800	7,392	0
46	7/19/2017	98	8,310	8,686	3,816	449900	7,361	0
47	7/19/2017	100	8,087	8,731	3,730	449900	7,281	0
48	7/19/2017	100	8,268	8,714	3,786	452100	7,233	0
49	7/28/2017	87	8,226	8,968	3,786	451000	7,758	0
50	7/28/2017	86	8,174	9,290	3,603	450000	6,698	0
51	7/28/2017	94	7,750	8,769	3,556	450500	6,857	0
52	7/28/2017	93	7,681	9,103	3,347	448500	7,319	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/5/2017
Job End Date:	7/28/2017
State:	West Virginia
County:	Ritchie
API Number:	47-085-10087-00-00
Operator Name:	EQT Production
Well Name and Number:	512427
Latitude:	39.13228600
Longitude:	-80.83094600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,461
Total Base Water Volume (gal):	18,170,628
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	USWS	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	86.15870	None
LGC-15	USWS	Water Gelling Agent					
				Listed Below			

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AI-303	USWS	Acid Corrosion Inhibitor					
				Listed Below			
LT Flush System I	USWS	Base / Flush Oil					
				Listed Below			
LGC-15	USWS	Water Gelling Agent					
				Listed Below			
NWA-200s	USWS	FR Activator					
				Listed Below			
LT Flush System I	USWS	Base / Flush Oil					
				Listed Below			
NWA-200s	USWS	FR Activator					
				Listed Below			
AP ONE	USWS	Gel Breaker					
				Listed Below			
Hydrochloric Acid (15%)	USWS	Acid					
				Listed Below			
SI-1200S	USWS	Scale Inhibitor					

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June 8, 2016

Mr. Gene Smith  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Modification of 47-085-10087

Dear Mr. Smith,

Please accept the attached updates for the above referenced permit. Upon inspection of our as-drilled plat, we noted the curve geometry crossed into 2 additional leases, #106136 & 109481. Enclosed is an updated WW-6A1, WW-6B, mylar plat and rec plan reflecting corrections to update the permit file to be consistent with the as-drilled well bore.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read "Vicki Roark", is written over the typed name.

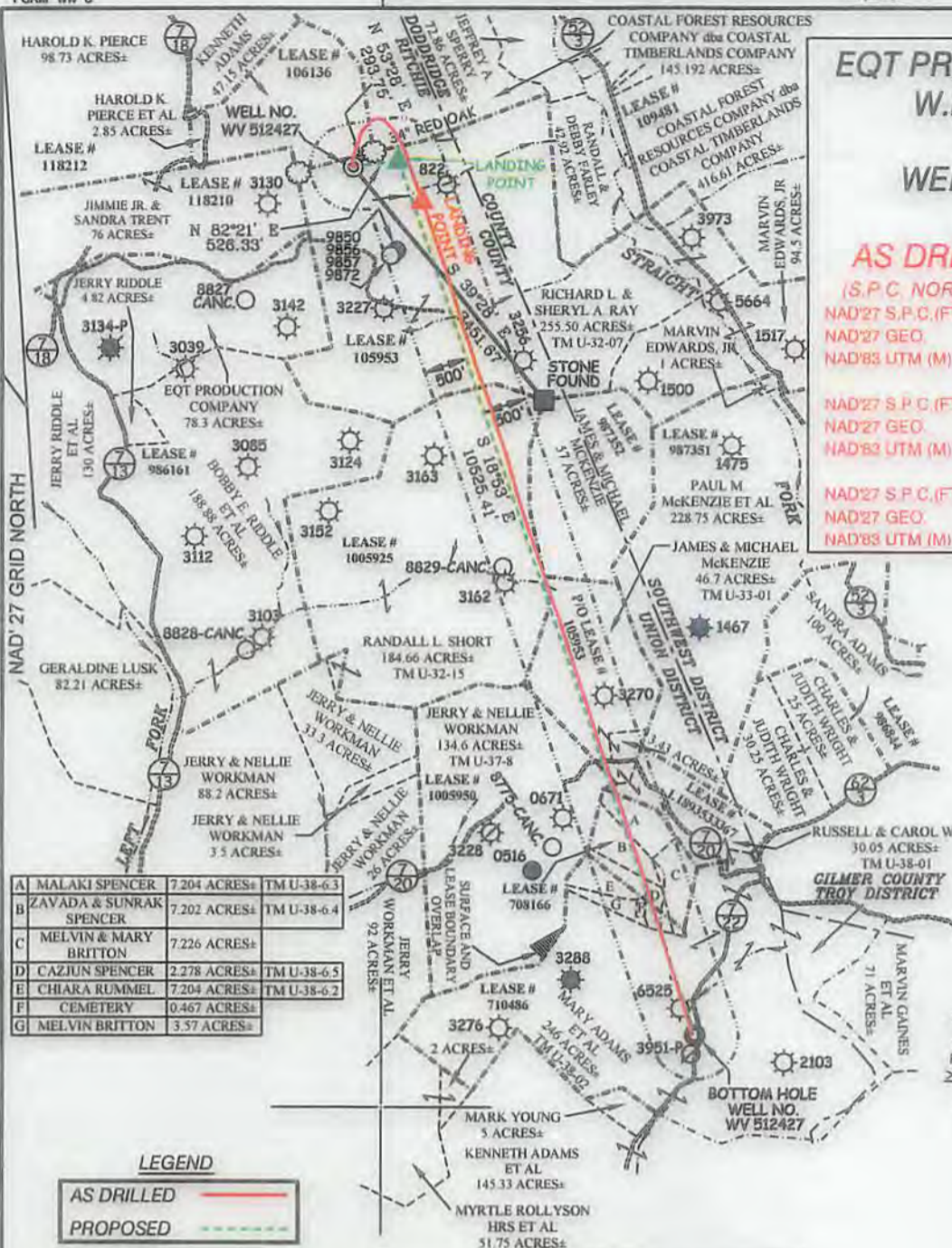
Vicki Roark  
Permitting Supervisor-WV

Enc.

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**EQT PRODUCTION COMPANY  
W.M. ADAMS LEASE  
402 ACRES±  
WELL NO. WV 512427  
(OXF122 H2)  
AS DRILLED COORDINATES**

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

NAD'27 S.P.C.(FT)	N. 233,088.47	E. 1,822,454.07
NAD'27 GEO.	LAT-(N) 39.132286	LONG-(W) 80.830946
NAD'83 UTM (M)	N. 4,331,479.83	E. 514,626.35
<b>LANDING POINT</b>		
NAD'27 S.P.C.(FT)	N. 232,691.53	E. 1,823,242.63
NAD'27 GEO.	LAT-(N) 39.131228	LONG-(W) 80.828148
NAD'83 UTM (M)	N. 4,331,382.92	E. 514,866.50
<b>BOTTOM HOLE</b>		
NAD'27 S.P.C.(FT)	N. 223,189.87	E. 1,826,357.78
NAD'27 GEO.	LAT-(N) 39.105269	LONG-(W) 80.816675
NAD'83 UTM (M)	N. 4,328,484.17	E. 515,865.91

A	MALAKI SPENCER	7.204 ACRES±	TM U-38-6.3
B	ZAVADA & SUNRAK SPENCER	7.202 ACRES±	TM U-38-6.4
C	MELVIN & MARY BRITTON	7.226 ACRES±	
D	CAZIJN SPENCER	2.278 ACRES±	TM U-38-6.5
E	CHIARA RUMMEL	7.204 ACRES±	TM U-38-6.2
F	CEMETERY	0.467 ACRES±	
G	MELVIN BRITTON	3.57 ACRES±	

**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.

**LEGEND**

AS DRILLED —  
PROPOSED - - -

**ROYALTY OWNERS**

ILENE BECKETT ET AL	183.16 AC±	LEASE NO. 1005925
MARY J. SMITH ET AL	134 AC±	LEASE NO. 1005950
ROBERT E. HAMMETT ET AL	30 AC±	LEASE NO. 1.1093533367
JOHN W. KERNS HEIRS TRUST	35 AC±	LEASE NO. 708166
JANE L. GARRISON ET AL	246 AC±	LEASE NO. 710486
ADELE McDUGAL ET AL	53 AC±	LEASE NO. 106136
ADELE McDUGAL ET AL	2000 AC±	LEASE NO. 109481

**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING, INC.  
**SLS**  
SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.  
(304) 402-8834 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 DECEMBER 12, 20 13  
REVISED 07/02/15, 12/03/15, 05/16/16 & 06/06/16  
OPERATORS WELL NO. WV 512427  
API WELL NO. 47 - 085 - 10087H  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 6811ASDRILLED512427R  
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: PAD ELEVATION 1,111' WATERSHED STRAIGHT FORK  
DISTRICT UNION COUNTY RITCHIE QUADRANGLE OXFORD 7.5'  
SURFACE OWNER RICHARD L. & SHERYL A. RAY ACREAGE 255.50±  
ROYALTY OWNER HAUGHT FAMILY TRUST ET AL ACREAGE 402±  
PROPOSED WORK: LEASE NO. 105953  
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 6,461'

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

02/16/2018