

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 513874

API: 47 - 103 - 02821

Submission:  Initial  Amended

Notes: Re-Submitted with as-drilled plat for  
your records (11/3/2016)

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**APPROVED**  
NAME: *Sean M. [Signature]*  
DATE: 12-15-16

WR-35  
Rev (9-11)

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

DATE: 10/5/2013  
API #: 47-10302821

Farm name: Richard Dollison ET AL Operator Well No.: 513874

LOCATION: Elevation: 1452 Quadrangle: Big Run 7.5'

District: Grant County: Wetzel  
Latitude: 5144 Feet South of 39 Deg. 32 Min. 30 Sec.  
Longitude 11499 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EQT Production Company

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700 625 Liberty Avenue, Pittsburgh, PA	20"	40	40	44.84
Agent: Rex C. Ray	13-3/8"	989	989	1020.7
Inspector: <b>Derek Haught</b>	9-5/8"	3753	3753	2121.77
Date Permit Issued: 10/29/2012	5-1/2"	15649	15649	2501.7
Date Well Work Commenced: 2/25/2013				
Date Well Work Completed: 10/05/2013				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7663				
Total Measured Depth (ft): 15654				
Fresh Water Depth (ft.): 783				
Salt Water Depth (ft.): 2260, 2373				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 737, 807, 922, 1012, 1244				
Void(s) encountered (N/Y) Depth(s) N				

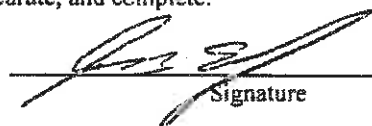
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,223  
Gas: Initial open flow 1,028 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 10,112 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 108.5 Hours  
Static rock Pressure 1,958 psig (surface pressure) after 113 Hours

Second producing formation NA Pay zone depth (ft) NA  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

  
Signature

9/8/2014  
Date

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught during drilling? Yes  No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gyro, Gamma, & CBL

**NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.**

Perforated Intervals, Fracturing, or Stimulating:

Amended Report with Flow Back Data

Performed additional injection test prior to stage 4

Plug Back: Details Including Plug Type and Depth(s): N/A

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ Bottom Depth  
Surface:

Sand/Shale 0/737/737	Benson 5633.8/5953.1/319.3
Coal 737/738/1	Alexander 5953.1/6872.2/919.1
Sand/Shale 738/807/69	Rhinestreet 6872.2/6877.7/5.5
Coal 807/ 817/10	Sonyea 6877.7/7001.9/124.2
Sand/Shale 817/922/105	Middlesex 7001.9/7043.7/41.8
Coal 922/927/5	Genessae 7043.7/7113.3/69.6
Sand/Shale 927/1012/85	Geneseo 7113.3/7134.8/21.5
Coal 1012/1022/10	Tully 7134.8/7151.3/19.8
Sand/Shale 1022/1244/222	Hamilton 7151.3/7223.5/22.5
Coal 1244/1,250/ 6	Marcellus 7223.5/7663/439.5
Sand/Shale 1,250 /2481.1/ 1241.1	
Big Lime 2481.1/3958.4/1477.1	
Warren 3958.4/4109.7/151.3	
Speechley 4109.7/4999/889.3	
Riley 4999/5633.8/634.9	

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513074 - Perforations

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
Initiation Sleeve	4/22/14 11:21	15,472.00	NA	15,007.00	15,600.00	NA
1	4/22/14 14:48	15,472.00	NA	15,486.00	15,578.00	4
2	4/22/14 22:02	15,322.00	15,472.00	15,336.00	15,458.00	4
3	4/23/14 5:00	15,172.00	15,322.00	15,186.00	15,308.00	4
4	4/24/14 15:54	15,022.00	15,172.00	15,036.00	15,156.00	4
5	4/24/14 20:47	14,872.00	15,022.00	14,886.00	15,006.00	4
6	4/25/14 2:00	14,722.00	14,872.00	14,736.00	14,856.00	4
7	4/25/14 8:35	14,572.00	14,722.00	14,586.00	14,706.00	4
8	4/25/14 14:40	14,422.00	14,572.00	14,436.00	14,556.00	4
9	4/25/14 19:25	14,272.00	14,422.00	14,286.00	14,406.00	4
10	4/26/14 1:00	14,122.00	14,272.00	14,136.00	14,256.00	4
11	4/26/14 7:03	13,972.00	14,122.00	13,986.00	14,106.00	4
12	4/26/14 11:39	13,822.00	13,972.00	13,836.00	13,956.00	4
13	4/26/14 15:44	13,672.00	13,822.00	13,686.00	13,806.00	4
14	4/26/14 22:16	13,522.00	13,672.00	13,536.00	13,656.00	4
15	4/27/14 3:35	13,372.00	13,522.00	13,386.00	13,506.00	4
16	4/27/14 12:54	13,222.00	13,372.00	13,236.00	13,356.00	4
17	4/27/14 16:55	13,072.00	13,222.00	13,086.00	13,206.00	4
18	4/27/14 22:05	12,922.00	13,072.00	12,936.00	13,056.00	4
19	4/28/14 3:44	12,772.00	12,922.00	12,786.00	12,906.00	4
20	4/28/14 8:53	12,622.00	12,772.00	12,636.00	12,756.00	4
21	4/28/14 13:07	12,472.00	12,622.00	12,486.00	12,606.00	4
22	4/28/14 18:17	12,322.00	12,472.00	12,336.00	12,456.00	4
23	4/28/14 23:50	12,172.00	12,322.00	12,186.00	12,306.00	4
24	4/29/14 6:03	12,022.00	12,172.00	12,036.00	12,156.00	4
25	4/29/14 10:44	11,872.00	12,022.00	11,886.00	12,006.00	4
26	4/29/14 15:29	11,722.00	11,872.00	11,736.00	11,856.00	4
27	4/29/14 21:17	11,572.00	11,722.00	11,586.00	11,706.00	4
28	4/30/14 3:23	11,422.00	11,572.00	11,436.00	11,556.00	4
29	4/30/14 9:06	11,272.00	11,422.00	11,286.00	11,406.00	4
30	4/30/14 17:00	11,122.00	11,272.00	11,136.00	11,256.00	4
31	4/30/14 20:15	10,972.00	11,122.00	10,986.00	11,106.00	4
32	5/1/14 1:00	10,822.00	10,972.00	10,836.00	10,956.00	4
33	5/1/14 5:56	10,672.00	10,822.00	10,686.00	10,806.00	4
34	5/2/14 1:05	10,522.00	10,672.00	10,536.00	10,656.00	4
35	5/2/14 5:33	10,372.00	10,522.00	10,386.00	10,506.00	4
36	5/2/14 13:00	10,222.00	10,372.00	10,236.00	10,356.00	4
37	5/2/14 15:34	10,072.00	10,222.00	10,086.00	10,206.00	4
38	5/3/14 5:05	9,922.00	10,072.00	9,936.00	10,056.00	4
39	5/3/14 10:45	9,772.00	9,922.00	9,786.00	9,906.00	4
40	5/3/14 19:44	9,622.00	9,772.00	9,636.00	9,756.00	4
41	5/4/14 0:36	9,472.00	9,622.00	9,486.00	9,606.00	4
42	5/4/14 5:05	9,322.00	9,472.00	9,336.00	9,456.00	4
43	5/4/14 13:20	9,172.00	9,322.00	9,186.00	9,306.00	4
44	5/4/14 15:41	9,022.00	9,172.00	9,036.00	9,156.00	4
45	5/5/14 0:15	8,872.00	9,022.00	8,886.00	9,006.00	4
46	5/5/14 4:09	8,722.00	8,872.00	8,736.00	8,856.00	4
47	5/5/14 9:35	8,572.00	8,722.00	8,586.00	8,706.00	4
48	5/5/14 14:22	8,422.00	8,572.00	8,436.00	8,556.00	4
49	5/5/14 19:10	8,272.00	8,422.00	8,286.00	8,406.00	4
50	5/5/14 23:23	NA	8,272.00	8,136.00		4

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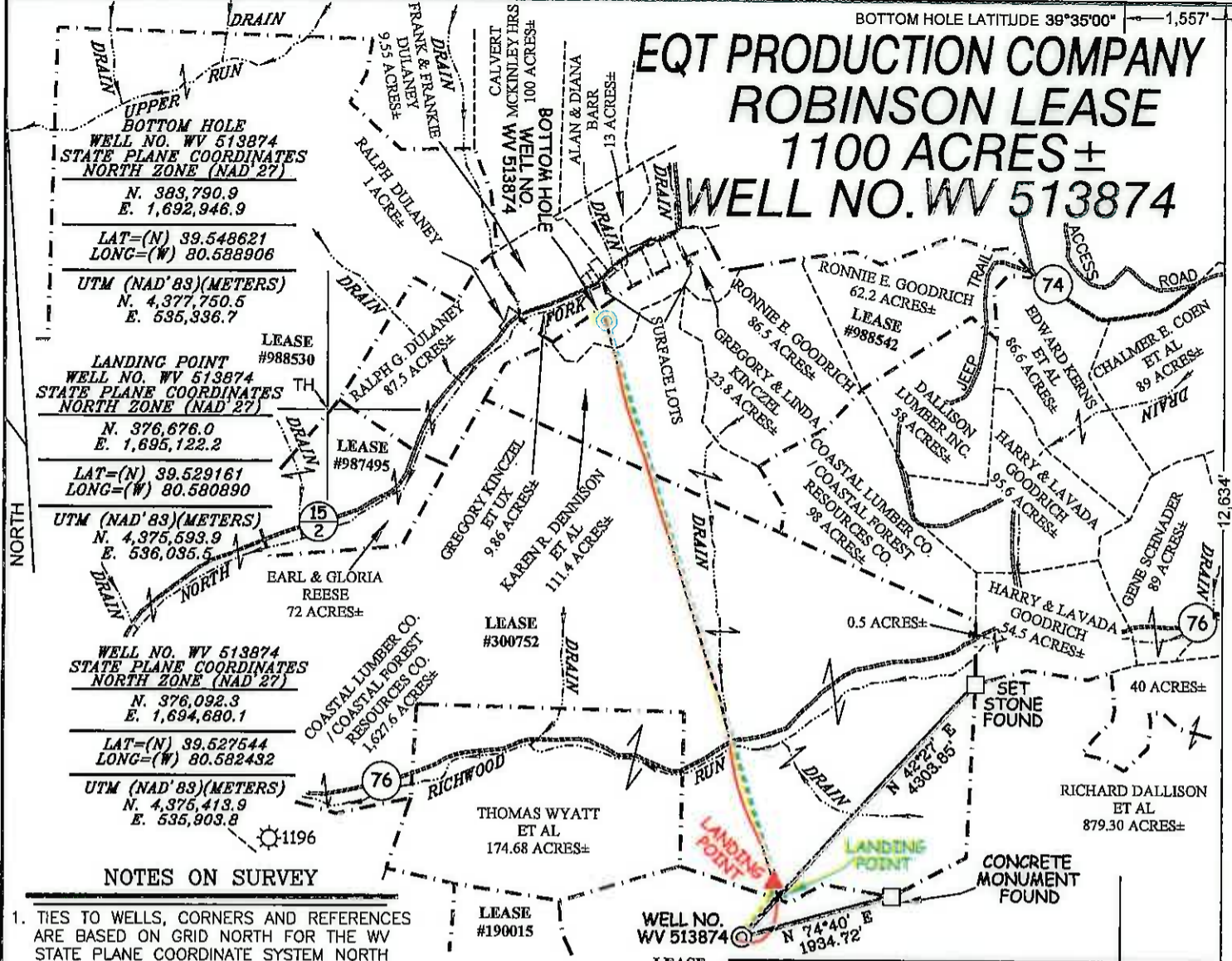
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512874 - Stimulated Stages

Zone/Stage	P Break (psf)	Avg Treat Pressure (psf)	Avg rate (bbl/min)	ISIP (psf)	Fract Gradient (psi/ft)	15 Min. SEP (psi)	Fluid Volume (MMBbl)	Start Date	End Date	Prepamt (\$)
Initiation Sleeve	NA	7,724.00	10.5	NA	NA	NA	0.01	4/22/2014 10:20	4/22/2014 13:17	NA
1	NA	8,241.00	79.3	4,000.00	0.97	2,914.00	5,150	4/22/2014 18:42	4/22/2014 20:10	200,500
2	6,272.00	8,575.00	75.9	4,425.00	1.02	3,111.00	5,070	4/23/2014 0:40	4/23/2014 2:05	200,300
3	6,547.00	8,700.00	74.8	9,751.00	1.72	NA	5,558	4/23/2014 6:04	4/23/2014 9:55	204,000
4	6,922.00	8,610.00	75.7	7,035.00	1.05	NA	10,437	4/24/2014 1:00	4/24/2014 14:00	NA
5	7,628.00	8,520.00	81.5	4,502.00	1.09	3,325.00	5,035	4/24/2014 18:31	4/24/2014 20:01	204,600
6	7,228.00	8,471.00	82.1	4,500.00	1.03	3,277.00	5,030	4/24/2014 19:34	4/25/2014 0:59	201,700
7	6,616.00	8,574.00	87.3	4,667.00	1.05	3,351.00	5,356	4/25/2014 11:37	4/25/2014 13:01	197,000
8	6,800.00	8,612.00	85.3	4,553.00	1.15	3,371.00	5,320	4/25/2014 17:00	4/25/2014 18:27	199,500
9	6,202.00	8,630.00	83.9	5,000.00	1.13	3,751.00	5,110	4/25/2014 5:05	4/25/2014 6:31	200,000
10	6,275.00	8,610.00	82.9	5,200.00	1.13	3,452.00	5,121	4/26/2014 3:35	4/26/2014 4:50	199,300
11	6,272.00	8,765.00	80.6	4,600.00	1.00	3,310.00	5,270	4/26/2014 9:34	4/26/2014 9:54	202,000
12	6,328.00	8,600.00	85.0	5,475.00	1.15	3,421.00	6,005	4/26/2014 13:19	4/26/2014 15:02	201,000
13	6,811.00	8,691.00	91.0	5,900.00	1.14	3,457.00	5,151	4/27/2014 19:12	4/26/2014 20:30	201,700
14	6,001.00	8,605.00	93.5	5,000.00	1.1	3,613.00	5,037	4/27/2014 0:37	4/27/2014 1:52	201,000
15	6,002.00	8,600.00	91.5	5,301.00	1.14	3,600.00	5,270	4/27/2014 9:47	4/27/2014 11:04	201,000
16	5,911.00	8,795.00	88.0	5,400.00	1.14	4,045.00	5,114	4/27/2014 14:24	4/27/2014 15:26	200,000
17	6,151.00	8,630.00	85.5	5,251.00	1.13	3,900.00	4,900	4/27/2014 16:59	4/27/2014 20:13	201,200
18	6,175.00	8,600.00	83.6	5,256.00	1.12	3,700.00	5,014	4/28/2014 0:00	4/28/2014 1:54	201,200
19	6,333.00	8,650.00	85.0	5,462.00	1.15	3,800.00	5,154	4/28/2014 5:53	4/28/2014 7:07	201,300
20	6,530.00	8,672.00	92.1	5,250.00	1.12	3,994.00	5,032	4/28/2014 10:06	4/28/2014 11:20	201,200
21	6,822.00	8,677.00	83.6	5,135.00	1.11	3,960.00	5,111	4/28/2014 15:18	4/28/2014 16:32	198,500
22	6,504.00	8,711.00	97.8	5,051.00	1.00	3,628.00	5,262	4/28/2014 19:00	4/28/2014 21:31	200,300
23	6,132.00	8,671.00	86.8	5,216.00	1.12	3,600.00	5,227	4/29/2014 2:05	4/29/2014 3:23	200,100
24	5,973.00	8,731.00	88.3	5,662.00	1.17	4,011.00	5,114	4/29/2014 7:31	4/29/2014 8:43	199,000
25	6,257.00	8,620.00	88.0	4,949.00	1.00	3,500.00	5,000	4/29/2014 12:25	4/29/2014 13:46	200,100
26	6,013.00	8,671.00	86.0	5,217.00	1.12	3,601.00	4,807	4/29/2014 18:52	4/29/2014 19:42	201,500
27	6,180.00	8,737.00	97.1	4,877.00	1.07	3,527.00	4,779	4/29/2014 23:51	4/30/2014 1:00	198,500
28	6,166.00	8,701.00	97.3	5,400.00	1.15	4,172.00	5,022	4/30/2014 6:14	4/30/2014 7:20	201,700
29	5,005.00	8,735.00	96.8	5,071.00	1.1	3,829.00	4,800	4/30/2014 13:59	4/30/2014 15:00	200,200
30	5,000.00	8,750.00	89.9	5,084.00	1.15	3,932.00	4,850	4/30/2014 18:17	4/30/2014 19:10	200,000
31	5,780.00	8,750.00	85.4	4,771.00	1.00	3,784.00	5,090	4/30/2014 23:00	5/1/2014 0:17	200,300
32	5,800.00	8,754.00	95.5	5,059.00	1.00	3,732.00	4,804	5/1/2014 3:33	5/1/2014 4:12	199,100
33	6,429.00	8,712.00	97.1	5,211.00	1.13	3,700.00	4,821	5/1/2014 23:17	5/2/2014 0:54	200,700
34	5,283.00	8,709.00	86.5	5,557.00	1.10	4,006.00	5,035	5/1/2014 9:07	5/2/2014 0:15	201,000
35	6,400.00	8,451.00	95.7	5,207.00	1.11	3,800.00	5,049	5/1/2014 9:51	5/2/2014 10:39	201,300
36	6,016.00	8,212.00	100.5	5,232.00	1.12	3,900.00	5,077	5/2/2014 13:46	5/2/2014 14:53	198,600
37	6,100.00	8,453.00	100.3	4,905.00	1.00	3,723.00	4,801	5/2/2014 0:00	5/3/2014 3:39	200,000
38	6,287.00	8,536.00	100.4	5,391.00	1.14	3,807.00	5,050	5/2/2014 7:34	5/3/2014 8:40	201,000
39	6,750.00	8,436.00	100.0	5,000.00	1.15	3,827.00	4,856	5/3/2014 0:00	5/3/2014 0:00	197,300
40	6,246.00	8,176.00	100.5	4,614.00	1.04	3,607.00	4,672	5/3/2014 22:07	5/3/2014 23:12	198,700
41	6,332.00	8,036.00	100.3	5,277.00	1.12	3,875.00	4,813	5/4/2014 2:41	5/4/2014 3:45	200,000
42	6,310.00	8,451.00	98.2	5,000.00	1.18	4,504.00	4,807	5/4/2014 10:31	5/1/2014 11:37	200,100
43	6,519.00	8,137.00	100.6	5,001.00	1.15	3,918.00	5,161	5/4/2014 16:30	5/4/2014 17:44	198,700
44	6,243.00	8,359.00	98.0	5,431.00	1.13	4,343.00	4,843	5/4/2014 21:49	5/4/2014 22:52	200,400
45	6,170.00	8,212.00	98.6	5,425.00	1.10	3,959.00	5,104	5/5/2014 1:51	5/5/2014 3:22	198,000
46	6,001.00	7,033.00	101.0	5,405.00	1.14	3,972.00	5,027	5/5/2014 7:07	5/5/2014 8:12	198,500
47	6,090.00	8,330.00	100.4	5,675.00	1.17	4,236.00	5,035	5/5/2014 12:00	5/5/2014 13:07	201,200
48	7,270.00	8,302.00	88.6	5,000.00	1.1	3,800.00	5,020	5/5/2014 15:43	5/5/2014 16:47	200,000
49	6,555.00	8,156.00	99.7	5,624.00	1.12	4,161.00	4,750	5/5/2014 21:00	5/5/2014 22:13	201,400
50	6,106.00	7,812.00	100.3	4,972.00	1.00	3,700.00	4,760	5/6/2014 1:22	5/6/2014 2:24	197,100



# EQT PRODUCTION COMPANY ROBINSON LEASE 1100 ACRES± WELL NO. WV 513874



**BOTTOM HOLE**  
WELL NO. WV 513874  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'27)  
N. 383,790.9  
E. 1,692,946.9  
LAT=(N) 39.548621  
LONG=(W) 80.588906  
UTM (NAD'83)(METERS)  
N. 4,377,750.5  
E. 535,336.7

LEASE #988530  
**LANDING POINT**  
WELL NO. WV 513874  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'27)  
N. 376,676.0  
E. 1,695,122.2  
LAT=(N) 39.529161  
LONG=(W) 80.580890  
UTM (NAD'83)(METERS)  
N. 4,375,593.9  
E. 536,035.5

WELL NO. WV 513874  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'27)  
N. 376,092.3  
E. 1,694,680.1  
LAT=(N) 39.527544  
LONG=(W) 80.582432  
UTM (NAD'83)(METERS)  
N. 4,375,413.9  
E. 535,903.8

### 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 BOUNDARIES SHOWN HEREON TAKEN FROM DEED BOOK 132 PAGE 336, DEED BOOK 274 PAGE 269, DEED BOOK 396 PAGE 470 AND DEED BOOK 365 PAGE 140.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN JULY, 2011.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE).
5. AS DRILLED INFORMATION PROVIDED BY EQT.

**LEGEND**

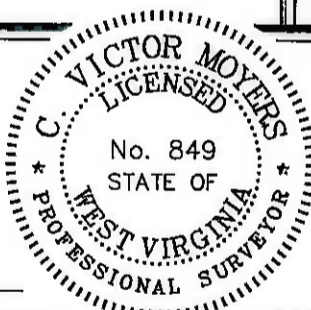
AS DRILLED ————

PROPOSED - - - - -

AS DRILLED COORDINATES (BIG192 H9)			
<b>(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)</b>			
NAD'27 S.P.C.(FT)	N. 376,092.19	E. 1,694,679.93	
NAD'27 GEO.	LAT-(N) 39.527544	LONG-(W) 80.582432	
NAD'83 UTM (M)	N. 4,375,413.84	E. 535,903.71	
<b>LANDING POINT</b>			
NAD'27 S.P.C.(FT)	N. 376,770.65	E. 1,695,104.14	
NAD'27 GEO.	LAT-(N) 39.529420	LONG-(W) 80.580958	
NAD'83 UTM (M)	N. 4,375,622.70	E. 536,029.51	
<b>BOTTOM HOLE</b>			
NAD'27 S.P.C.(FT)	N. 383,800.24	E. 1,692,961.37	
NAD'27 GEO.	LAT-(N) 39.548648	LONG-(W) 80.588856	
NAD'83 UTM (M)	N. 4,377,753.43	E. 535,341.03	



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 AUGUST 3, 20 12  
REVISED DATE 03/31/14 & 09/26/16  
OPERATORS WELL NO. WV 513874  
API WELL NO. 47 - 103 - 02821H  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7797ASDRILLED513874R  
PROVEN SOURCE OF ELEVATION 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 1,470' (GROUND) 1,452' (PROPOSED) WATERSHED AUNTY RUN OF SOUTH FORK FISHING CREEK  
DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'  
SURFACE OWNER RICHARD DALLISON ET AL ACREAGE 879.304  
ROYALTY OWNER ED BROOM, INC ET AL (1,100 AC.), MILLS WETZEL LANDS INC. (1000 AC.), CNX (280 AC.)

PROPOSED WORK: LEASE NO. 104225/300752/988542  
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

TOP HOLE LONGITUDE 80°32'30" 5,144' BOTTOM HOLE LONGITUDE 80°35'00" COUNTY NAME PERMIT