

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

API 47-085-10094 County Ritchie District Clay  
Quad Pennsboro Pad Name PEN15 Field/Pool Name \_\_\_\_\_  
Farm name DEWAYNE BRITTON ET UX Well Number 515276  
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 4,345,846 Easting 504,204  
Landing Point of Curve Northing 4,346,260 Easting 505,006  
Bottom Hole Northing 4,347,633 Easting 504,338

Elevation (ft) 1,119' 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)

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 05/22/2014 Date drilling commenced 06/18/2014 Date drilling ceased 03/24/2015  
Date completion activities began 6/3/2015 Date completion activities ceased 6/10/2015  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Received  
Office of Oil & Gas  
AUG 26 2015

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

Freshwater depth(s) ft 86',166',245',397',773',876' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1655',1946',2524' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 17',276',382',747' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

JK

10/09/2015

API 47-085 - 10094 Farm name DEWAYNE BRITTON ET UX Well number 515276

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	26"	20"	40'	NEW	A-500 40LB/FT	NONE	Y
Surface	17.5"	13.375"	1,081'	NEW	J-55 54.5LB/FT	249', 582'	Y
Coal							
Intermediate 1	12.25"	9.625"	5,414'	NEW	P-110 40LB/FT	NONE	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	14,143'	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	1.19	45.22	0	8
Surface	CLASS A	892	15.6	1.19	1061.5	0	8
Coal							
Intermediate 1	CLASS A	240/307/1207	14.2/15.6/15.6	1.5/1.18/1.18	2146.5	0	8
Intermediate 2							
Intermediate 3							
Production	Class H / Class H	597/682	14.2/15.2	1.23/2.18	2221.1	5,400	72
Tubing							

Drillers TD (ft) 14,164' 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) 3,900' 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: 1,11,24  
 INTERMEDIATE- RAN AT LEAST EVERY 500' FEET JOINTS: 1,12,24,36,48,60,72,84,96,108,120,132  
 Production- 214 Composite bodied centralizers on every joint from TD up to 5,000'

**Received**  
**Office of Oil & Gas**  
**AUG 26 2015**

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 - 10094 Farm name DEWAYNE BRITTON ET UX Well number 515276

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6,378'</u>	<u>TVD</u>	<u>8,362'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,096 psi Bottom Hole N/A psi DURATION OF TEST 102.0 hrs

OPEN FLOW Gas 8,516 mcfpd Oil N/A bpd NGL 258.1 bpd Water 659.5 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

Drilling Contractor ALPHA HUNTER DRILLING (RIG 5)  
Address P.O. BOX 430 City RENO State OH Zip 45773


Logging Company HOSSCO SERVICES, LLC  
Address 614 TROTTERS LANE City CHARLESTON State WV Zip 25312

Cementing Company Allied Services  
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Stingray Energy  
Address 66680 Executive Drive City Saint Clairsville State TX Zip 43950

Please insert additional pages as applicable.

Received  
Office of Oil & Gas  
AUG 26 2015

Completed by Jim Helmick Telephone 412-395-5518  
Signature  Title VP Completions Date 8/25/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47- 085 - 10094 Farm name DEWAYNE BRITTON ET UX Well number 515276

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 Baker Hughes  
Address 837 Philippi Pike City Clarksburgh State WV Zip 26301

Received  
Office of Oil & Gas  
AUG 26 2015

**API 47 - 085 - 10094**

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	876	876
SAND/SHALE	0	0	17	17
WASHINGTON COAL	17	17	19	19
SAND/SHALE	19	19	276	276
COAL	276	276	284	284
SAND/SHALE	284	284	382	382
COAL	382	382	387	387
SAND/SHALE	387	387	747	747
COAL	747	747	751	751
SAND/SHALE	751	751	1,750	1,750
MAXTON	1,750	1,750	1,969	1,969
BIG LIME	1,969	1,969	2,037	2,037
KEENER	2,037	2,037	2,376	2,376
WEIR	2,376	2,376	2,581	2,581
GANTZ	2,581	2,581	2,721	2,721
50F	2,721	2,721	2,802	2,802
30F	2,802	2,802	2,846	2,846
GORDON	2,846	2,846	2,927	2,927
4TH	2,927	2,927	3,073	3,073
5TH	3,073	3,073	3,116	3,116
BAYARD	3,116	3,116	3,465	3,465
WARREN	3,465	3,465	3,508	3,508
B-5	3,508	3,508	3,546	3,546
SPEECHLEY	3,546	3,546	3,927	3,927
BALLTOWN A	3,927	3,927	4,589	4,577
RILEY	4,589	4,577	4,985	4,936
BENSON	4,985	4,936	5,312	5,205
ALEXANDER	5,312	5,205	5,348	5,233
ELKS	5,348	5,233	7,477	6,105
SONYEA	7,477	6,105	7,806	6,218
MIDDLESEX	7,806	6,218	7,969	6,276
GENESEE	7,969	6,276	8,135	6,328
GENESEO	8,135	6,328	8,256	6,356
TULLY	8,256	6,356	8,330	6,372
HAMILTON	8,330	6,372	8,362	6,378
MARCELLUS	8,362	6,378	14,164	6,436

Received  
Office of Oil & Gas  
AUG 26 2015

10/09/2015

**515276- 47-085-10094-0000- 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>	4/29/2015	14,117.00	14,119.00	10	MARCELLUS
<b>1</b>	6/3/2015	13,996.00	14,088.00	32	MARCELLUS
<b>2</b>	6/3/2015	13,846.00	13,968.00	40	MARCELLUS
<b>3</b>	6/3/2015	13,696.00	13,818.00	40	MARCELLUS
<b>4</b>	6/3/2015	13,546.00	13,668.00	40	MARCELLUS
<b>5</b>	6/4/2015	13,396.00	13,518.00	40	MARCELLUS
<b>6</b>	6/4/2015	13,246.00	13,370.00	40	MARCELLUS
<b>7</b>	6/4/2015	13,096.00	13,218.00	40	MARCELLUS
<b>8</b>	6/4/2015	12,946.00	13,068.00	40	MARCELLUS
<b>9</b>	6/5/2015	12,796.00	12,918.00	40	MARCELLUS
<b>10</b>	6/5/2015	12,646.00	12,768.00	40	MARCELLUS
<b>11</b>	6/5/2015	12,496.00	12,618.00	40	MARCELLUS
<b>12</b>	6/5/2015	12,346.00	12,468.00	40	MARCELLUS
<b>13</b>	6/5/2015	12,196.00	12,316.00	40	MARCELLUS
<b>14</b>	6/6/2015	12,046.00	12,166.00	40	MARCELLUS
<b>15</b>	6/6/2015	11,896.00	12,018.00	40	MARCELLUS
<b>16</b>	6/6/2015	11,750.00	11,868.00	40	MARCELLUS
<b>17</b>	6/6/2015	11,596.00	11,718.00	40	MARCELLUS
<b>18</b>	6/6/2015	11,446.00	11,568.00	40	MARCELLUS
<b>19</b>	6/6/2015	11,296.00	11,418.00	40	MARCELLUS
<b>20</b>	6/7/2015	11,146.00	11,268.00	40	MARCELLUS
<b>21</b>	6/7/2015	10,996.00	11,116.00	40	MARCELLUS
<b>22</b>	6/7/2015	10,846.00	10,968.00	40	MARCELLUS
<b>23</b>	6/7/2015	10,693.00	10,818.00	40	MARCELLUS
<b>24</b>	6/7/2015	10,546.00	10,668.00	40	MARCELLUS
<b>25</b>	6/7/2015	10,396.00	10,516.00	40	MARCELLUS
<b>26</b>	6/7/2015	10,246.00	10,368.00	40	MARCELLUS
<b>27</b>	6/8/2015	10,096.00	10,218.00	40	MARCELLUS
<b>28</b>	6/8/2015	9,944.00	10,068.00	40	MARCELLUS
<b>29</b>	6/8/2015	9,796.00	9,918.00	40	MARCELLUS
<b>30</b>	6/8/2015	9,646.00	9,768.00	40	MARCELLUS
<b>31</b>	6/8/2015	9,496.00	9,618.00	40	MARCELLUS
<b>32</b>	6/9/2015	9,346.00	9,468.00	40	MARCELLUS
<b>33</b>	6/9/2015	9,196.00	9,318.00	40	MARCELLUS
<b>34</b>	6/9/2015	9,046.00	9,168.00	40	MARCELLUS
<b>35</b>	6/9/2015	8,901.00	9,018.00	40	MARCELLUS
<b>36</b>	6/9/2015	8,746.00	8,868.00	40	MARCELLUS
<b>37</b>	6/10/2015	8,596.00	8,718.00	40	MARCELLUS
<b>38</b>	6/10/2015	8,446.00	8,568.00	40	MARCELLUS

85-10094

Office of Oil & Gas  
 Received  
 AUG 26 2015

**515276- 47-085-10094-0000- 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	6/3/2015	24.9	6,171.00	6,751.00	4,466.00	0	398	0
1	6/3/2015	89.1	8,280.00	8,538.00	3,915.00	202,520	5399	0
2	6/3/2015	87.6	8,187.00	8,461.00	3,435.00	202,560	5568	0
3	6/3/2015	83.3	8,001.00	8,458.00	3,246.00	203,300	5551	0
4	6/4/2015	89.3	8,039.00	8,365.00	3,917.00	201,100	5374	0
5	6/4/2015	91.1	8,219.00	8,457.00	4,133.00	200,660	5429	0
6	6/4/2015	87.4	8,193.00	8,504.00	5,207.00	202,400	5553	0
7	6/4/2015	88.4	8,172.00	8,468.00	4,051.00	200,980	5379	0
8	6/4/2015	90.3	7,928.00	8,414.00	3,959.00	202,380	5582	0
9	6/5/2015	90.6	8,020.00	8,253.00	3,533.00	202,420	5497	0
10	6/5/2015	98.8	8,536.00	8,829.00	3,827.00	200,790	5597	0
11	6/5/2015	98.5	8,508.00	8,884.00	4,156.00	202,140	5439	0
12	6/5/2015	99.2	8,465.00	8,842.00	3,512.00	201,500	5511	0
13	6/5/2015	99.1	8,484.00	8,790.00	3,558.00	203,020	5218	0
14	6/6/2015	97.3	8,433.00	8,927.00	4,210.00	201,860	5126	0
15	6/6/2015	95.7	8,625.00	8,829.00	4,626.00	199,680	5529	0
16	6/6/2015	95	8,608.00	8,861.00	4,055.00	201,420	5249	0
17	6/6/2015	98.5	8,569.00	8,868.00	3,687.00	201,000	5298	0
18	6/6/2015	98.8	8,254.00	8,662.00	3,648.00	201,820	5125	0
19	6/6/2015	96.7	8,391.00	8,649.00	3,604.00	201,800	4780	0
20	6/7/2015	99	8,369.00	8,636.00	3,919.00	202,340	5203	0
21	6/7/2015	100.6	8,438.00	8,819.00	3,662.00	202,100	5380	0
22	6/7/2015	99.4	8,484.00	8,874.00	4,127.00	200,500	5335	0
23	6/7/2015	100.5	8,468.00	8,975.00	4,304.00	198,480	5277	0
24	6/7/2015	99.2	8,330.00	8,532.00	3,790.00	202,720	5189	0
25	6/7/2015	94.6	8,265.00	8,478.00	3,445.00	202,800	5150	0
26	6/8/2015	99.4	8,224.00	8,543.00	4,401.00	201,480	5101	0
27	6/8/2015	99.6	8,093.00	8,401.00	3,680.00	202,300	4943	0
28	6/8/2015	100.8	8,342.00	8,934.00	3,502.00	198,980	5135	0
29	6/8/2015	100.8	8,349.00	8,936.00	4,099.00	199,720	5143	0
30	6/8/2015	100.90	8,450.00	8,847.00	4,058	198,740	5,100	0
31	6/8/2015	99.50	7,720.00	8,144.00	3,430	201,940	5,042	0
32	6/8/2015	100.10	7,819.00	8,294.00	3,720	202,180	4,967	0
33	6/8/2015	100.90	8,500.00	8,934.00	3,692	201,220	5,173	0
34	6/9/2015	100.80	8,529.00	8,773.00	3,777	202,680	5,227	0
35	6/9/2015	99.10	7,553.00	8,122.00	3,414	202,340	5,072	0
36	6/9/2015	100.00	7,666.00	8,175.00	3,372	201,940	4,860	0
37	6/10/2015	100.60	7,702.00	8,219.00	3,863	202,840	5,283	0
38	6/10/2015	100.4	8,175.00	8,522.00	3,542.00	202,920.00	5154	0

85-10094

AUG 26 2015

Office of



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/3/2015
Job End Date:	6/10/2015
State:	West Virginia
County:	Ritchie
API Number:	47-085-10094-00-00
Operator Name:	EQT Production
Well Name and Number:	515276
Longitude:	-80.95143400
Latitude:	39.26186100
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,436
Total Base Water Volume (gal):	8,414,112
Total Base Non Water Volume:	0



85-10094

## 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	Stingray Pressure Pumping, LLC	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.83481	None
Sand (Proppant)	Stingray Pressure Pumping, LLC	Proppant	Silica Substrate	14808-60-7	100.00000	9.80230	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05619	None
Hydrochloric Acid (15%)	Stingray Pressure Pumping, LLC	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03538	None
FRA-405	Stingray Pressure Pumping, LLC	Friction reducer	Petroleum distillates	64742-47-8	40.00000	0.00286	None
			Sodium chloride	7647-14-5	10.00000	0.00072	None
			Ammonium chloride	12125-02-9	7.00000	0.00050	None
			Alcohols, C12-16, Ethoxylated	68551-12-2	7.00000	0.00050	None
ScaleClear 125	Stingray Pressure Pumping, LLC	Scale inhibitor	Phosphonomethylated polyimine, compd. w/ substituted amine	Proprietary	15.00000	0.00370	None
			Ammonium chloride	12125-02-9	2.50000	0.00062	None

Received  
 Office of Oil & Gas  
 AUG 26 2014

85-10094

AI 600	Stingray Pressure Pumping, LLC	Acid corrosion inhibitor				
			Ethylene glycol	107-21-1	40.00000	0.00063 None
			N,N-Dimethylformamide	68-12-2	20.00000	0.00031 None
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	15.00000	0.00024 None
			2-Butoxyethanol	111-76-2	15.00000	0.00024 None
			Cinnamaldehyde	104-55-2	15.00000	0.00024 None
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched	127087-87-0	5.00000	0.00008 None
			1-Decanol	112-30-1	5.00000	0.00008 None
			Isopropanol	67-63-0	2.50000	0.00004 None
			1-Octanol	111-87-5	2.50000	0.00004 None
			Triethyl phosphate	78-40-0	2.50000	0.00004 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)

Received  
 Office of Oil & Gas  
 Allig 26 2015

**EQT PRODUCTION COMPANY  
TAYLOR LEASE  
1,600 ACRES±  
WELL NO. WV 515276**

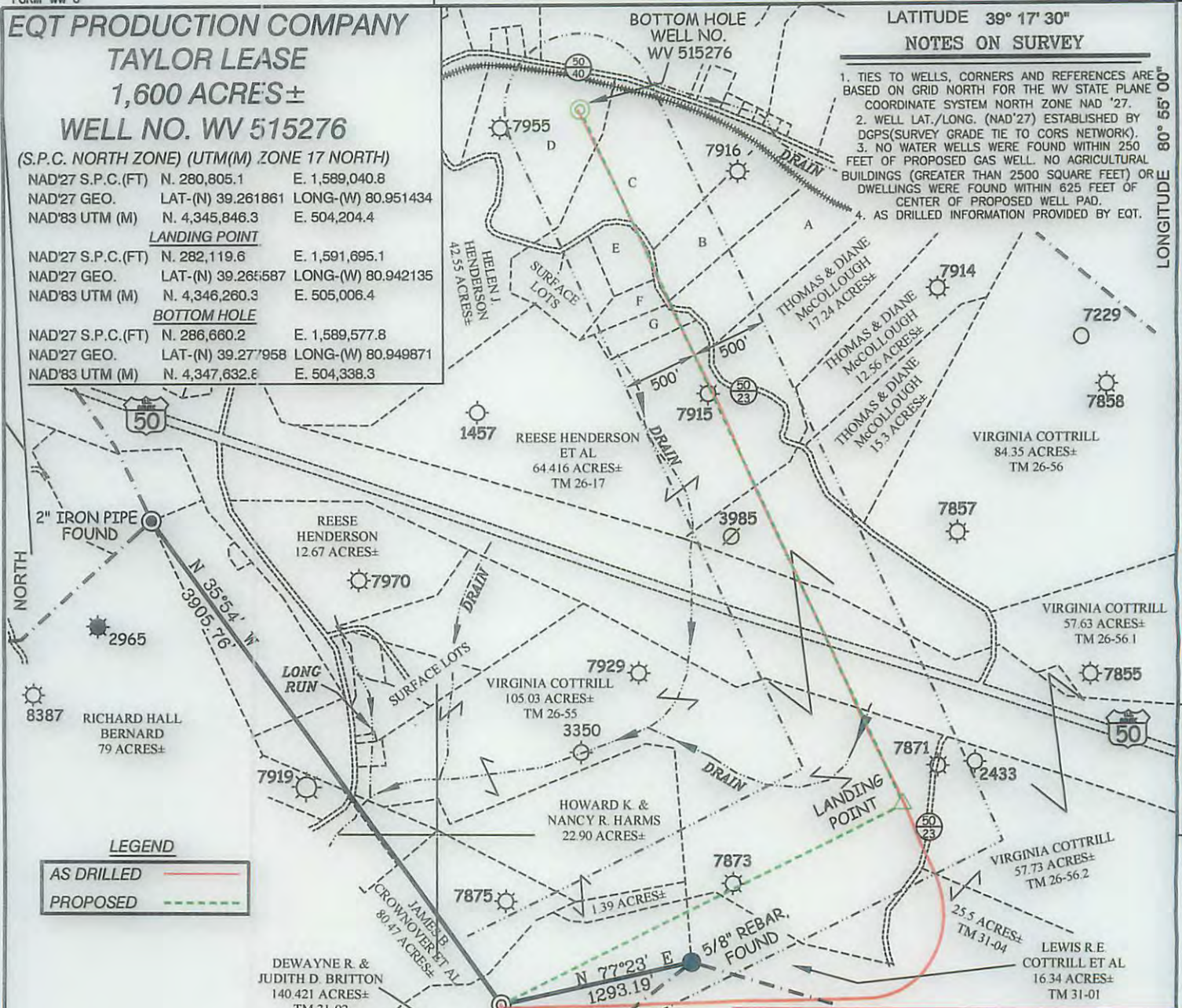
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'27 S.P.C.(FT) N. 280,805.1 E. 1,589,040.8  
 NAD'27 GEO. LAT-(N) 39.261861 LONG-(W) 80.951434  
 NAD'83 UTM (M) N. 4,345,846.3 E. 504,204.4  
**LANDING POINT**  
 NAD'27 S.P.C.(FT) N. 282,119.6 E. 1,591,695.1  
 NAD'27 GEO. LAT-(N) 39.265587 LONG-(W) 80.942135  
 NAD'83 UTM (M) N. 4,346,260.3 E. 505,006.4  
**BOTTOM HOLE**  
 NAD'27 S.P.C.(FT) N. 286,660.2 E. 1,589,577.8  
 NAD'27 GEO. LAT-(N) 39.277958 LONG-(W) 80.949871  
 NAD'83 UTM (M) N. 4,347,632.6 E. 504,338.3

9,844'

LATITUDE 39° 17' 30"  
**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. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE TIE TO CORS NETWORK).
3. NO WATER WELLS WERE FOUND WITHIN 250 FEET OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS (GREATER THAN 2500 SQUARE FEET) OR DWELLINGS WERE FOUND WITHIN 625 FEET OF CENTER OF PROPOSED WELL PAD.
4. AS DRILLED INFORMATION PROVIDED BY EQT.

LONGITUDE 80° 55' 00"



**LEGEND**

AS DRILLED —  
 PROPOSED - - -

A	THOMAS A. & D. DIANE McCULLOUGH	12.7 AC±	TM 26-18.2
B	CLARIN D. & CAROLYN J. DAVIS	5.453 AC±	TM 26-18.1
C	CLARIN D. & CAROLYN J. DAVIS	18.55 AC±	TM 26-18
D	KARL E. & KAREN M. KNUSTEN	14.35 AC±	TM 43A-14
E	HAROLD L. & GLORIA A. SHIVE	2.897 AC±	TM 26-17.8
F	HAROLD L. & GLORIA A. SHIVE	2.162 AC±	TM 26-17.9
G	RICHARD C. & DONNA M. OWENS	2.110 AC±	TM 26-17.10

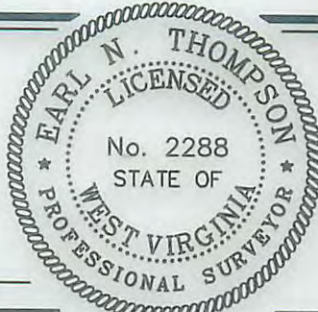
**AS DRILLED COORDINATES  
FOR WELL NO. WV 515276**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'27 S.P.C.(FT) N. 280,805.1 E. 1,589,040.8  
 NAD'27 GEO. LAT-(N) 39.261861 LONG-(W) 80.951434  
 NAD'83 UTM (M) N. 4,345,846.3 E. 504,204.4  
**BOTTOM HOLE**  
 NAD'27 S.P.C.(FT) N. 286,658.4 E. 1,589,559.9  
 NAD'27 GEO. LAT-(N) 39.277953 LONG-(W) 80.949935  
 NAD'83 UTM (M) N. 4,347,632.2 E. 504,332.8

**Professional Energy Consultants**  
 A DIVISION OF SMITH LAND SURVEYING, INC.  
  
 SURVEYORS  
 ENGINEERS  
 ENVIRONMENTAL  
 PROJECT MGMT.  
 (304) 462-5634 WWW.SLSURVYS.COM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 10, 20 14  
 REVISED APRIL 08, 20 15  
 OPERATORS WELL NO. WV 515276  
 API WELL NO. 47 - 085 - 10094-H  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7496AD515276  
 PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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 1,119' (PAD ELEVATION) WATERSHED LONG RUN OF NORTH FORK HUGHES RIVER  
 DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'  
 SURFACE OWNER DEWAYNE BRITTON ET UX ACREAGE 140.421  
 ROYALTY OWNER E. R. TAYLOR HEIRS ACREAGE 1,600± 10/09/2015  
**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 \_\_\_\_\_

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

COUNTY NAME PERMIT