

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

API 47 - 085 - 10093 County Ritchie District Clay  
Quad Pennsboro Pad Name PEN15 Field/Pool Name \_\_\_\_\_  
Farm name DEWAYNE BRITTON ET UX Well Number 515275  
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 4,345,843.8 Easting 504,208.3  
Landing Point of Curve Northing 4,346,218.9 Easting 505,297.7  
Bottom Hole Northing 4,347,509.2 Easting 504,669.6

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 03/06/2015  
Date completion activities began 6/10/2015 Date completion activities ceased 6/17/2015  
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

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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 \_\_\_\_\_  
Is coal being mined in area (Y/N) N

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Environmental Protection

Reviewed by:  
JL

10/16/2015

API 47-085 - 10093 Farm name DEWAYNE BRITTON ET UX Well number 515275

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"	1,074'	NEW	J-55 54.5LB/FT	254', 581'	Y
Coal							
Intermediate 1	12.25"	9.625"	5,690'	NEW	P-110 40LB/FT	NONE	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	13,835'	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	907	15.6	1.19	1079.33	0	8
Coal							
Intermediate 1	CLASS A	360/310/1245	14.2/15.6/15.6	1.28/1.18/1.18	2298.7	0	8
Intermediate 2							
Intermediate 3							
Production	Class A / Class H	585/660	14.2/15.2	1.26/1.97	2037.3	5,800	72
Tubing							

Drillers TD (ft) 13,847 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) 3,253 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- 222 Composite bodied centralizers on every joint from TD up to 4,383'

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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 \_\_\_\_\_





API 47- 085 - 10093 Farm name DEWAYNE BRITTON ET UX Well number 515275

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 NABORS CEMENTING SERVICESRS  
Address 2504 SMITH CREEK ROAD City WAYNESBURG State PA Zip 15370

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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	3,466	3,465
WARREN	3,466	3,465	3,549	3,547
SPEECHLEY	3,549	3,547	3,948	3,928
BALLTOWN A	3,948	3,928	4,764	4,579
RILEY	4,764	4,579	5,239	4,938
BENSON	5,239	4,938	5,591	5,204
ALEXANDER	5,591	5,204	5,626	5,232
ELKS	5,626	5,232	7,786	6,106
SONYEA	7,786	6,106	8,131	6,219
MIDDLESEX	8,131	6,219	8,310	6,274
GENESEE	8,310	6,274	8,514	6,331
GENESEO	8,514	6,331	8,639	6,358
TULLY	8,639	6,358	8,724	6,374
HAMILTON	8,724	6,374	8,766	6,381
MARCELLUS	8,766	6,381	13,847	6,433

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**515275- 47-085-10093-0000- Perforations**

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	4/29/2015	13,833.00	13,835.00	10	MARCELLUS
1	6/10/2015	13,689.00	13,781.00	32	MARCELLUS
2	6/11/2015	13,539.00	13,661.00	40	MARCELLUS
3	6/11/2015	13,389.00	13,511.00	40	MARCELLUS
4	6/11/2015	13,239.00	13,361.00	40	MARCELLUS
5	6/11/2015	13,089.00	13,211.00	40	MARCELLUS
6	6/11/2015	12,939.00	13,061.00	40	MARCELLUS
7	6/12/2015	12,789.00	12,911.00	40	MARCELLUS
8.01	6/12/2015	12,788.00	12,910.00	32	MARCELLUS
8	6/12/2015	12,639.00	12,761.00	40	MARCELLUS
9	6/12/2015	12,489.00	12,611.00	40	MARCELLUS
10	6/12/2015	12,339.00	12,461.00	40	MARCELLUS
11	6/13/2015	12,189.00	12,311.00	40	MARCELLUS
12	6/13/2015	12,039.00	12,161.00	40	MARCELLUS
13	6/14/2015	11,889.00	12,011.00	40	MARCELLUS
14	6/14/2015	11,739.00	11,861.00	40	MARCELLUS
15	6/14/2015	11,589.00	11,711.00	40	MARCELLUS
16	6/14/2015	11,439.00	11,561.00	40	MARCELLUS
17	6/14/2015	11,289.00	11,411.00	40	MARCELLUS
18	6/14/2015	11,139.00	11,261.00	40	MARCELLUS
19	6/15/2015	10,989.00	11,111.00	40	MARCELLUS
20	6/15/2015	10,839.00	10,961.00	40	MARCELLUS
21	6/15/2015	10,689.00	10,811.00	40	MARCELLUS
22	6/15/2015	10,539.00	10,661.00	40	MARCELLUS
23	6/15/2015	10,389.00	10,511.00	40	MARCELLUS
24	6/15/2015	10,239.00	10,361.00	40	MARCELLUS
25	6/16/2015	10,089.00	10,211.00	40	MARCELLUS
26	6/16/2015	9,939.00	10,061.00	40	MARCELLUS
27	6/16/2015	9,789.00	9,911.00	40	MARCELLUS
28	6/16/2015	9,639.00	9,761.00	40	MARCELLUS
29	6/16/2015	9,489.00	9,611.00	40	MARCELLUS
30	6/16/2015	9,339.00	9,461.00	40	MARCELLUS
31	6/16/2015	9,189.00	9,311.00	40	MARCELLUS
32	6/17/2015	9,039.00	9,161.00	40	MARCELLUS
33	6/17/2015	8,889.00	9,011.00	40	MARCELLUS

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**515275- 47-085-10093-0000- 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	6/10/2015	27.3	7,750.00	8,123.00	5,441.00	0	374	0
1	6/10/2015	94	8,350.00	8,552.00	3,397.00	200,480	5564	0
2	6/11/2015	96.8	8,411.00	8,618.00	3,423.00	200,980	5751	0
3	6/11/2015	93.3	8,160.00	8,495.00	3,657.00	198,760	5868	0
4	6/11/2015	96.3	8,260.00	8,624.00	3,545.00	202,780	5467	0
5	6/11/2015	95.2	8,352.00	8,575.00	3,421.00	200,060	5429	0
6	6/11/2015	91.1	8,366.00	8,682.00	3,316.00	200,580	5407	0
7	6/12/2015	96.5	8,564.00	8,771.00	3,702.00	200,940	5117	0
8.01	6/12/2015	9.7	4,652.00	6,007.00	4,903.00	0	3021	0
8	6/12/2015	90	8,220.00	8,551.00	3,795.00	203,140	5552	0
9	6/12/2015	96.5	8,066.00	8,222.00	3,638.00	200,320	5295	0
10	6/13/2015	93.7	7,914.00	8,197.00	3,417.00	200,040	5695	0
11	6/13/2015	95.2	7,845.00	8,070.00	3,506.00	200,780	5258	0
12	6/14/2015	95.7	7,894.00	8,080.00	3,504.00	202,220	5295	0
13	6/14/2015	97.7	7,910.00	8,182.00	4,063.00	201,220	5214	0
14	6/14/2015	92.6	8,256.00	8,674.00	3,868.00	203,200	5231	0
15	6/14/2015	98	8,147.00	8,569.00	3,533.00	200,360	5271	0
16	6/14/2015	98.2	8,283.00	8,509.00	3,829.00	201,180	5330	0
17	6/14/2015	99.2	8,011.00	8,301.00	3,830.00	200,120	5089	0
18	6/15/2015	97.8	8,008.00	8,213.00	3,713.00	201,360	5184	0
19	6/15/2015	98.2	7,949.00	8,309.00	3,827.00	200,480	5201	0
20	6/15/2015	97.9	8,238.00	8,628.00	4,255.00	198,700	5440	0
21	6/15/2015	96.3	8,267.00	8,527.00	3,958.00	199,320	5338	0
22	6/15/2015	96.1	8,275.00	8,519.00	3,784.00	200,140	5282	0
23	6/15/2015	99.2	7,789.00	8,076.00	3,731.00	200,320	5156	0
24	6/16/2015	98.4	7,906.00	8,238.00	4,920.00	199,840	5087	0
25	6/16/2015	100	7,563.00	7,877.00	3,705.00	199,340	5154	0
26	6/16/2015	99.1	8,012.00	8,532.00	4,055.00	201,820	5267	0
27	6/16/2015	98.5	8,238.00	8,631.00	3,681.00	199,300	5194	0
28	6/16/2015	97.8	8,322.00	8,593.00	3,783.00	199,460	5101	0
29	6/16/2015	99.8	7,918.00	8,308.00	3,664.00	198,860	5128	0
30	6/16/2015	99.50	7,887.00	8,215.00	3,976	200,940	4,887	0
31	6/17/2015	100.30	7,954.00	8,415.00	3,387	204,020	4,973	0
32	6/17/2015	98.20	7,108.00	8,789.00	3,350	204,520	5,094	0
33	6/17/2015	98.60	7,986.00	8,803.00	3,602	199,560	5,023	0

85-10093B

ENVIRONMENTAL  
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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/10/2015
Job End Date:	6/17/2015
State:	West Virginia
County:	Ritchie
API Number:	47-085-10093-00-00
Operator Name:	EQT Production
Well Name and Number:	515275
Longitude:	-80.95139000
Latitude:	39.26183900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,381
Total Base Water Volume (gal):	7,464,954
Total Base Non Water Volume:	0



85-10093

## 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	89.99292	None
Sand (Proppant)	Stingray Pressure Pumping, LLC	Proppant	Silica Substrate	14808-60-7	100.00000	9.57084	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.07119	None
FRA-405	Stingray Pressure Pumping, LLC	Friction reducer	Petroleum distillates	64742-47-8	40.00000	0.02742	None
			Sodium chloride	7647-14-5	10.00000	0.00685	None
			Ammonium chloride	12125-02-9	7.00000	0.00480	None
			Alcohols, C12-16, Ethoxylated	68551-12-2	7.00000	0.00480	None
Hydrochloric Acid (15%)	Stingray Pressure Pumping, LLC	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03328	None
ScaleClear 125	Stingray Pressure Pumping, LLC	Scale inhibitor	Phosphonomethylated polymine, compd. w/ substituted amine	Proprietary	15.00000	0.00370	None
			Ammonium chloride	12125-02-9	2.50000	0.00062	None

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AI 600	Stingray Pressure Pumping, LLC	Acid corrosion inhibitor					
			Ethylene glycol	107-21-1	40.00000	0.00062	None
			N,N-Dimethylformamide	68-12-2	20.00000	0.00031	None
			2-Butoxyethanol	111-76-2	15.00000	0.00023	None
			Cinnamaldehyde	104-55-2	15.00000	0.00023	None
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	15.00000	0.00023	None
			1-Decanol	112-30-1	5.00000	0.00008	None
			Poly(oxy-1,2-ethanediyl), alpha.-(4-nonylphenyl)-.omega.-hydroxy-branched	127087-87-0	5.00000	0.00008	None
			Isopropanol	67-63-0	2.50000	0.00004	None
			Triethyl phosphate	78-40-0	2.50000	0.00004	None
			1-Octanol	111-87-5	2.50000	0.00004	None
Plexgel 907L-EB	Stingray Pressure Pumping, LLC	Slurried Guar					
			Distillates, hydrotreated light	64742-47-8	50.00000	0.00048	None
			Organophylic clay	Proprietary	2.00000	0.00002	None
			Alcohol ethoxylate	34398-01-1	1.00000	0.00001	None
			Crystalline silica	14808-60-7	0.10000	0.00000	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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**EQT PRODUCTION COMPANY  
TAYLOR LEASE  
1,600 ACRES±  
WELL NO. WV 515275**

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

NAD'27 S.P.C.(FT) N. 280,796.7 E. 1,589,053.2  
NAD'27 GEO. LAT-(N) 39.261839 LONG-(W) 80.951390  
NAD'83 UTM (M) N. 4,345,843.8 E. 504,208.3

**LANDING POINT**

NAD'27 S.P.C.(FT) N. 281,967.6 E. 1,592,648.7  
NAD'27 GEO. LAT-(N) 39.265212 LONG-(W) 80.938759  
NAD'83 UTM (M) N. 4,346,218.9 E. 505,297.7

**BOTTOM HOLE**

NAD'27 S.P.C.(FT) N. 286,236.3 E. 1,590,658.2  
NAD'27 GEO. LAT-(N) 39.276843 LONG-(W) 80.946031  
NAD'83 UTM (M) N. 4,347,509.2 E. 504,669.6

9,832'

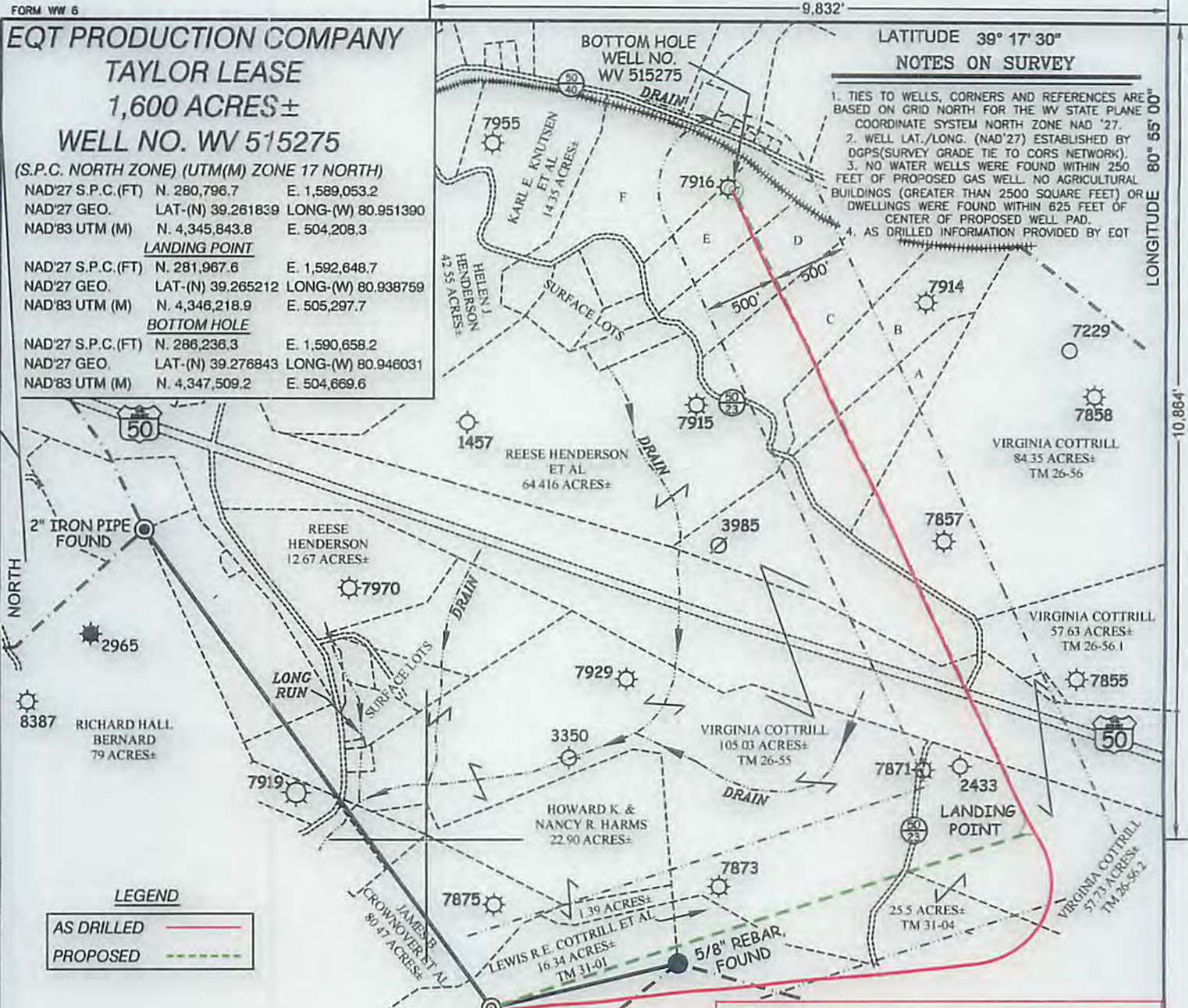
LATITUDE 39° 17' 30"

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 825 FEET OF CENTER OF PROPOSED WELL PAD.
- A. AS DRILLED INFORMATION PROVIDED BY EQT

LONGITUDE 80° 55' 00"

10,864'



**LEGEND**

- AS DRILLED (red line)
- PROPOSED (green line)

A	THOMAS A & D DIANE McCULLOUGH	15.3 AC±	TM 26-18.5
B	THOMAS A & D DIANE McCULLOUGH	12.56 AC±	TM 26-18.4
C	THOMAS A & D DIANE McCULLOUGH	17.24 AC±	TM 26-18.3
D	THOMAS A & D DIANE McCULLOUGH	12.7 AC±	TM 26-18.2
E	CLARIN D & CAROLYN J DAVIS	5.453 AC±	TM 26-18.1
F	CLARIN D & CAROLYN J DAVIS	18.55 AC±	TM 26-18

**AS DRILLED COORDINATES  
FOR WELL NO. WV 515275**

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

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NAD'27 GEO. LAT-(N) 39.261839 LONG-(W) 80.951390  
NAD'83 UTM (M) N. 4,345,843.8 E. 504,208.3

**BOTTOM HOLE**

NAD'27 S.P.C.(FT) N. 286,236.3 E. 1,590,648.5  
NAD'27 GEO. LAT-(N) 39.276844 LONG-(W) 80.946073  
NAD'83 UTM (M) N. 4,347,509.3 E. 504,666.0

**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING, INC.  
**SLS**  
SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.  
(304) 462-5834 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 JANUARY 10, 20 14

REVISED MARCH 12, 20 15

OPERATORS WELL NO. WV 515275

API WELL NO. 47-085-10093-H  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7496ASDRILLED515275

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± 10/16/2015

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 P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT