

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

API 47-049-02401 County MARION District MANNINGTON  
Quad GLOVER GAP Pad Name GLO76 Field/Pool Name \_\_\_\_\_  
Farm name ROBERT E. TONKERY Well Number 514747  
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 4,379,497.3 Easting 543,870.4  
Landing Point of Curve Northing 4,379,413.2 Easting 544,134.3  
Bottom Hole Northing 4,378,367.1 Easting 544,676.2

Elevation (ft) 1424' 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 13.4 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 7/24/2015 Date drilling commenced 7/14/2015 Date drilling ceased 11/13/15  
Date completion activities began 2/8/2016 Date completion activities ceased 2/14/2016  
Verbal plugging (Y/N) N Date permission granted N/A Granted by \_\_\_\_\_

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug  
Freshwater depth(s) ft 263 Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 1883,2123,2438 Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 662,818,1077,1176 Cavern(s) encountered (Y/N) depths \_\_\_\_\_

WV Department of  
Environmental Protection  
N

Is coal being mined in area (Y/N) N  
**APPROVED**  
NAME: Jaqueli Shum  
DATE: 9/22/14

Reviewed by: \_\_\_\_\_  
10/28/2016

API 47-049 - 02401

Farm name **ROBERT E. TONKERY**

Well number **514747**

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	N/A	Y
Surface	17 1/2"	13 3/8"	962'	NEW	J-55	123'	Y
Coal							
Intermediate 1	12 3/8"	9 5/8"	3064'	NEW	A-500	1140'	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	12292'	NEW	P-110	N/A	N
Tubing							
Packer type and depth set							

Comment Details Cement placed greater than 1000' above KOP

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	753	15.6	1.20	903.6	0	8
Coal							
Intermediate 1	CLASS A / CLASS A	964 / 222	15.6 / 15.6	1.18 / 1.20	1403.92	0	8
Intermediate 2							
Intermediate 3							
Production	Class A / Class A	515 / 590	15.2 / 15.6	1.07 / 1.84	1636.65	5313'	8+
Tubing							

Drillers TD (ft) 12295'      Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS      Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6690'

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: 3 CENTRALIZERS EVERY 500'  
 INTERMEDIATE: 8 CENTRALIZERS EVERY 500'  
 PRODUCTION: 72 Centralizers 1 every other joint from 12290' to 6400' then 1 centralizer every 1000' to 3000'.

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- 049 - 02401 Farm name ROBERT E. TONKERY Well number 514747

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
MARCELLUS	7,716.30	8,182.00

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,532 psi Bottom Hole N/A psi DURATION OF TEST 54.00 hrs

OPEN FLOW Gas 12,234 mcfpd Oil N/A bpd NGL 0.0 bpd Water 871 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		

Please insert additional pages as applicable.

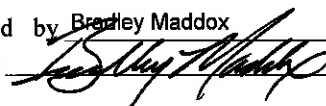
Drilling Contractor ALPHA HUNTER DRILLING (RIG 6)  
Address P.O. BOX 430 City RENO State OH Zip 45773

Logging Company GYRODATA  
Address 601 MAYER ST City BRIDGEVILLE State PA Zip 15017

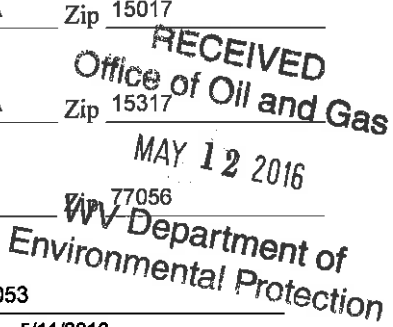
Cementing Company ALLIED OIL & GAS SERVICES  
Address 333 Technology Drive, Suite 290 City Canonsburg State PA Zip 15317

Stimulating Company Keane  
Address 2121 Sage Road City Houston State TX Zip 77056

Please insert additional pages as applicable.

Completed by Bradley Maddox Telephone (412) 395-7053  
Signature  Title Dir Drilling Date 5/11/2016

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



API 47- 049 - 02401 Farm name ROBERT E. TONKERY Well number 514747

Drilling Contractor Pioneer Drilling Services Rig 72  
Address 1083 North 88 Road City Rices Landing State PA Zip 15357

Logging Company Pro Directional  
Address 750 Conroe Park North Dr. City Conroe State TX Zip 77303

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

Cementing Company Nabors aka C&J Services  
Address 2504 Smith Creek Road City Waynesburg State PA Zip 15370

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**Final Formations Well #514747**

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
SAND/SHALE	1	1	662	662
WASHINGTON COAL	662	662	664	664
SAND/SHALE	664	664	818	818
WAYNESBURG COAL	818	818	820	820
SAND/SHALE	820	820	1,077.00	1,077.00
SEWICKLEY COAL	1,077.00	1,077.00	1,080.00	1,080.00
SAND/SHALE	1,080.00	1,080.00	1,176.00	1,176.00
PITTSBURGH COAL	1,176.00	1,176.00	1,183.00	1,183.00
SAND/SHALE	1,183.00	1,183.00	2,146.00	2,145.90
MAXTON	2,146.00	2,145.90	2,183.00	2,182.90
SAND/SHALE	2,183.00	2,182.90	2,293.00	2,292.80
BIG LIME	2,293.00	2,292.80	2,362.00	2,361.80
SAND/SHALE	2,362.00	2,361.80	2,457.00	2,456.80
BIG INJUN	2,457.00	2,456.80	2,612.00	2,611.80
SAND/SHALE	2,612.00	2,611.80	2,730.00	2,729.70
WEIR	2,730.00	2,729.70	2,750.00	2,749.70
SAND/SHALE	2,750.00	2,749.70	2,938.00	2,937.70
GANTZ	2,938.00	2,937.70	3,097.00	3,096.70
50F	3,097.00	3,096.70	3,253.00	3,252.70
GORDON	3,253.00	3,252.70	3,381.00	3,380.70
BAYARD	3,381.00	3,380.70	3,863.00	3,862.60
WARREN	3,863.00	3,862.60	4,084.00	4,083.60
SPEECHLEY	4,084.00	4,083.60	4,446.00	4,445.50
BALLTOWN A	4,446.00	4,445.50	4,969.00	4,968.50
RILEY	4,969.00	4,968.50	5,528.00	5,527.40
BENSON	5,528.00	5,527.40	5,914.00	5,913.40
ALEXANDER	5,914.00	5,913.40	7,156.00	7,152.00
RHINESTREET	7,156.00	7,152.00	7,233.00	7,224.10
SONYEA	7,233.00	7,224.10	7,436.00	7,392.60
MIDDLESEX	7,436.00	7,392.60	7,525.00	7,450.20
GENESSEE	7,525.00	7,450.20	7,711.00	7,546.00
GENESEO	7,711.00	7,546.00	7,783.00	7,580.50
TULLY	7,783.00	7,580.50	7,850.00	7,610.80
HAMILTON	7,850.00	7,610.80	8,182.00	7,716.30
MARCELLUS	8,182.00	7,716.30		

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514747 47-049-02401-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	12/18/2016	12,291	12,292	10	MARCELLUS
1	2/8/2016	12,144	12,236	32	MARCELLUS
2	2/8/2016	11,994	12,116	40	MARCELLUS
3	2/9/2016	11,844	11,962	40	MARCELLUS
4	2/9/2016	11,695	11,816	40	MARCELLUS
5	2/9/2016	11,544	11,666	40	MARCELLUS
6	2/9/2016	11,394	11,516	40	MARCELLUS
7	2/10/2016	11,244	11,366	40	MARCELLUS
8	2/10/2016	11,094	11,216	40	MARCELLUS
9	2/10/2016	10,944	11,066	40	MARCELLUS
10	2/10/2016	10,794	10,916	40	MARCELLUS
11	2/10/2016	10,645	10,766	40	MARCELLUS
12	2/10/2016	10,494	10,616	40	MARCELLUS
13	2/11/2016	10,344	10,466	40	MARCELLUS
14	2/11/2016	10,194	10,316	40	MARCELLUS
15	2/11/2016	10,044	10,162	40	MARCELLUS
16	2/11/2016	9,894	10,014	40	MARCELLUS
17	2/11/2016	9,744	9,866	40	MARCELLUS
18	2/12/2016	9,595.00	9,716.00	40	MARCELLUS
19	2/12/2016	9,444.00	9,566.00	40	MARCELLUS
20	2/12/2016	9,294.00	9,416.00	40	MARCELLUS
21	2/12/2016	9,144.00	9,266.00	40	MARCELLUS
22	2/12/2016	8,994.00	9,113.00	40	MARCELLUS
23	2/12/2016	8,844.00	8,966.00	40	MARCELLUS
24	2/13/2016	8,694.00	8,816.00	40	MARCELLUS
25	2/13/2016	8,546.00	8,666.00	40	MARCELLUS
26	2/13/2016	8,394.00	8,516.00	40	MARCELLUS
27	2/13/2016	8,244.00	8,366.00	40	MARCELLUS
28	2/13/2016	8,094.00	8,216.00	40	MARCELLUS

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**514747 47-049-02401-0000 - 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	2/8/2016	10.4	8,053	9,309	5,097	0	482	0
1	2/8/2016	98.9	8,970	9,303	4,326	251,237.00	6,785	0
2	2/9/2016	100.7	8,959	9,183	4,438	251,519.00	6,544	0
3	2/9/2016	98.5	9,114	9,358	5,165	249,487.00	6,029	0
4	2/9/2016	93.9	9,197	9,341	5,193	249,500.00	5,925	0
5	2/9/2016	93.1	9,268	9,443	4,662	251,555.00	6,184	0
6	2/9/2016	99.2	9,080	9,334	4,826	251,880.00	6,109	0
7	2/10/2016	99.8	9,068	9,488	4,962	246,240.00	6,050	0
8	2/10/2016	99.7	8,870	9,089	5,325	248,920.00	5,957	0
9	2/10/2016	100.6	8,866	9,149	5,400	251,560.00	6,010	0
10	2/10/2016	100.5	8,838	9,096	4,960	248,722.00	5,852	0
11	2/10/2016	100.4	8,738	8,864	4,941	251,140.00	5,973	0
12	2/11/2016	100.3	8,665	8,803	4,736	249,880.00	5,934	0
13	2/11/2016	100.2	8,673	9,107	5,303	250,880.00	5,890	0
14	2/11/2016	93.5	9,146	9,357	5,138	250,800.00	6,521	0
15	2/11/2016	90.7	9,183	9,330	4,943	250,058.00	5,873	0
16	2/11/2016	99.7	8,873	9,301	5,191	254,080.00	6,021	0
17	2/11/2016	100.3	8,457	8,750	4,963	251,780.00	6,221	0
18	2/12/2016	100.2	8,369	8,538	5,349	251,824.00	5,798	0
19	2/12/2016	100.8	8,484	8,653	5,273	251,160.00	5,920	0
20	2/12/2016	100.6	8,311	8,535	5,355	251,280.00	5,906	0
21	2/12/2016	98.7	9,188	9,311	5,329	252,000.00	5,828	0
22	2/12/2016	100.5	8,637	9,146	4,695	250,750.00	5,864	0
23	2/12/2016	100.2	8,676	9,067	5,478	250,500.00	8,649	0
24	2/13/2016	99	9,075	9,329	5,165	250,020.00	5,759	0
25	2/13/2016	98.6	9,206	9,387	5,172	249,140.00	5,847	0
26	2/13/2016	96.2	9,236	9,346	5,070	251,980.00	5,720	0
27	2/13/2016	100.2	9,025	9,269	4,577	248,510.00	5,774	0
28	2/13/2016	100.7	8,412	9,125	4,588	250,564.00	5,785	0

10/28/2016



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	2/8/2016
Job End Date	2/14/2016
State	West Virginia
County	Marion
API Number	47-049-02401-00-00
Operator Name	EQT Production
Well Name and Number	514747
Longitude	-80 48949200
Latitude	39 56396400
Datum	NAD83
Federal/Tribal Well	NO
True Vertical Depth	7,716
Total Base Water Volume (gal)	7,190,820
Total Base Non Water Volume	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Abstract 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	89.27683	None
Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100.00000	10.43959	None
Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03232	None
FFR760	Keane Group	Friction Reducer	Hydrotreated Light Distillate	64742-47-8	30.00000	0.01915	None
			Alkyl Alcohol	Proprietary	10.00000	0.00638	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00319	None
AI 600	Keane Group	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00021	None
			Dimethylformamide	68-12-2	20.00000	0.00011	None
			Pyridine, alkyl-derivative	68909-18-2	15.00000	0.00008	None
			Quaternized with benzyltriethylammonium chloride	127087-87-0	15.00000	0.00003	None
			Nonyl Phenol Ethoxylate	104-55-2	15.00000	0.00008	None
			Branched Polyamine	111-87-5	5.00000	0.00003	None
			Dimethylsiloxane	112-30-1	5.00000	0.00003	None

			2-Eutoxyethanol	111-76-2	5.00000	0.00000	None
			Triethyl Phosphate	78-40-0	2.50000	0.00000	None
			Methanol	67-58-1	2.50000	0.00000	None
			Alkyl Pyridine	68391-11-7	1.00000	0.00000	None
EC6330A	Keane Group	Scale Inhibitor	Ethylene Glycol	107-21-1	5.00000	0.00014	None
			Sodium Phosphate Tribasic	7501-54-9	5.00000	0.00014	None
Baciron K-139	Keane Group	Biocide	Quaternary ammonium compounds, benzyl-C12-15-alkylmethyl chlorides	68424-85-1	10.00000	0.00010	None
			Ethanol	64-17-5	5.00000	0.00005	None
			Glutaraldehyde	111-30-8	5.00000	0.00005	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)

8,800'

Latitude: 39° 35' 00"

Longitude: 80° 27' 30"

**WV 514747**  
**EQT Production Company**  
**Bower et al LEASE**  
**111.0 Acres ±**

Lease No.	Acres	Owner
300884	79	Richard G. Thorne et. al.
993296	35	Ronnie David Starkey
993303	108.5	East Resources Inc. et. al.

**WV 514747 Well Point Coordinates**

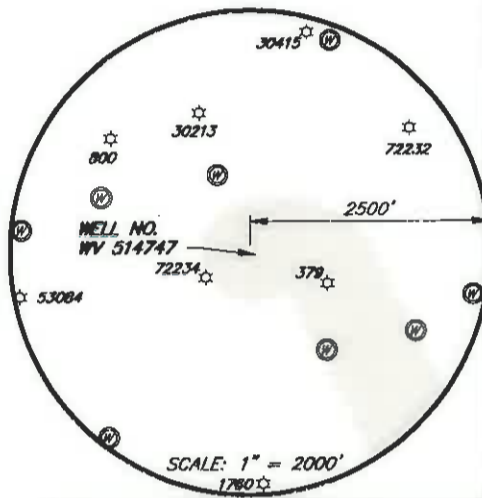
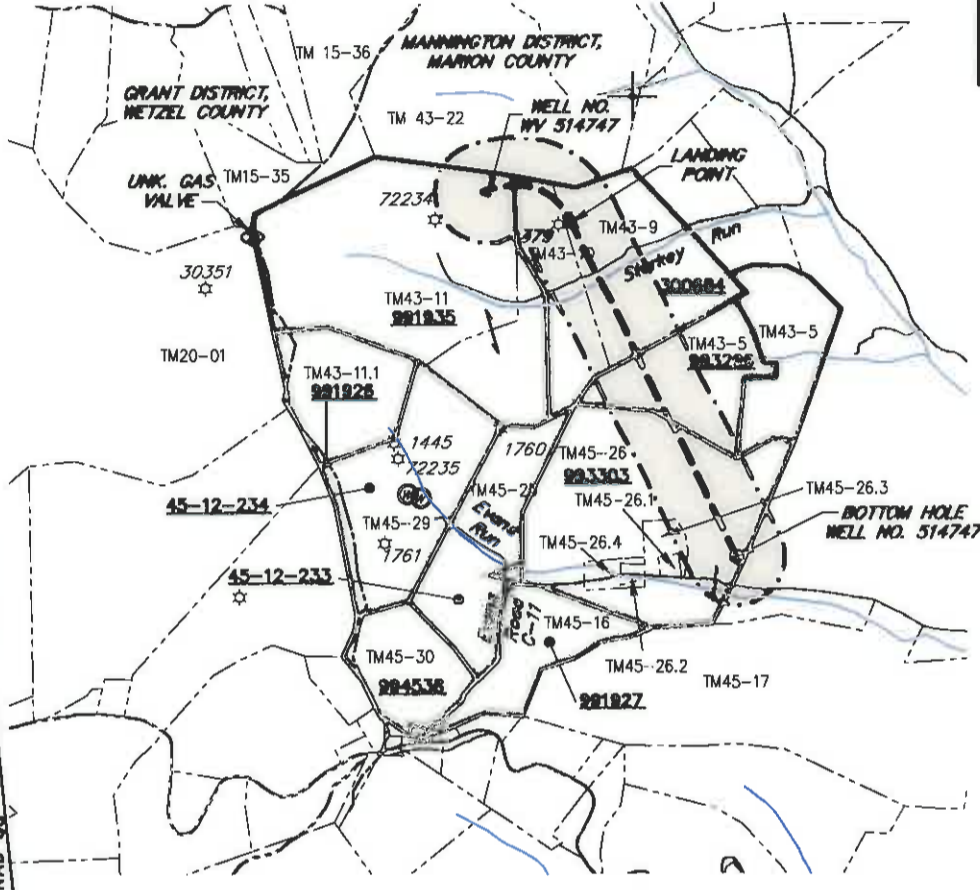
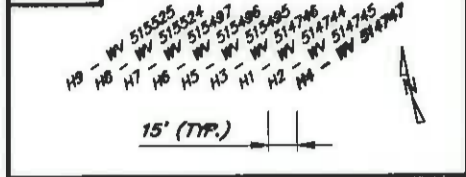
Top Hole Coordinates		
NAD 27 S.P.C. (FL)	N: 389,054.66	E: 1,721,044.74
NAD 27 GEO	LAT: 39.563965	LONG: 80.469477
NAD 83 UTM 17N (M)	N 4,379,497.3	E: 543,870.4
NAD 83 S.P.C. (FL)	N 389,092.3	E: 1,689,606.0
Landing Point Coordinates		
NAD 27 S.P.C. (FL)	N: 388,764.54	E: 1,721,906.07
NAD 27 GEO	LAT: 39.563194	LONG: 80.486411
NAD 83 UTM 17N (M)	N 4,379,413.2	E: 544,134.3
NAD 83 S.P.C. (FL)	N 388,802.2	E: 1,690,467.3
Bottom Hole Coordinates		
NAD 27 S.P.C. (FL)	N: 385,302.13	E: 1,723,627.25
NAD 27 GEO	LAT: 39.553740	LONG: 80.480172
NAD 83 UTM 17N (M)	N 4,378,367.1	E: 544,676.2
NAD 83 S.P.C. (FL)	N 385,339.7	E: 1,692,188.4

**LEGEND**

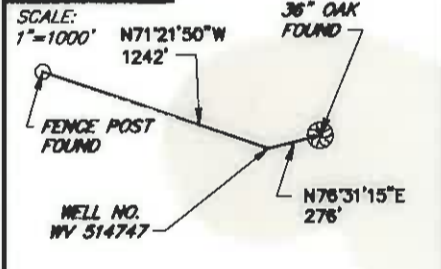
- ☆ EXISTING OIL/GAS WELL
- ⊙ WATER FEATURE
- ▲ WELL HEAD TOP HOLE
- WELL LANDING POINT
- WELL BOTTOM HOLE
- REBAR FOUND
- STONE FOUND
- WELL LATERAL LINE
- LEASE BOUNDARY
- BUFFER
- PROPERTY LINE
- STREAM
- 300' LATERAL COLLECTION

**Coordinate Notes**  
West Virginia Coordinate System of 1927 (North Zone) Based upon Differential GPS Measurements.  
Plat orientation, Corner and well ties are based upon the grid north meridian.  
Well location references are based upon the grid north meridian.  
UTM Coordinates are NAD83, Zone 17 Meters.

**GLO 76**



**Well References**



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

*[Signature]*



FILE NO.: EES-60635  
DRAWING NO.: GLO76 Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: ±3'  
PROVEN SOURCE OF ELEVATION: GPS

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**

DATE DECEMBER 18, 20 15  
OPERATORS WELL NO. WV 514747  
API WELL NO.  
47 049 02401  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION, ELEVATION: 1424' (Ground) 1455' (Prop.) WATERSHED: Starkey Run QUADRANGLE: GLOVER GAP WV  
DISTRICT: MANNINGTON COUNTY: Marion  
SURFACE OWNER: Robert E. Tonkery ACREAGE: 111.00± AC  
ROYALTY OWNER: Lynn Ann Brower, et al LEASE NO.: 991935 ACREAGE: 111.00± AC  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,745'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray  
ADDRESS: 115 Professional Pl. P.O. Box 280 ADDRESS: 115 Professional Pl. P.O. Box 280  
Bridgeport, WV 26330 Bridgeport, WV 26330

WWW.ENCOMPASSSERVICES.COM PLOT DATE: 12/18/2015 CAD FILE: GLO76\_WELL PLAT\_12-01-2015.DWG