

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

API 47 - 017 - 6504 County DODDRIDGE District Southwest
Quad OXFORD 7.5' Pad Name OXFORD 159 Field/Pool Name _____
Farm name JUSTIN L. HENDERSON ET AL Well Number 513155
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 4,339,878 Easting 520,542
Landing Point of Curve Northing 4,339,162 Easting 520,220
Bottom Hole Northing 4,340,625 Easting 519,507

Elevation (ft) 1,252 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 W/O Flowback
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 7/30/2014 Date drilling commenced 11/21/2014 Date drilling ceased 4/24/2015
Date completion activities began 6/12/2015 Date completion activities ceased 6/19/2015
Verbal plugging (Y/N) N Date permission granted N/A Granted by Office of Oil and Gas

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

Freshwater depth(s) ft 264, 325, 401 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1312, 1379 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 246, 313, 474, 616, 732, 735 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

SL

10/16/2015

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API 47-017 - 6504 Farm name JUSTIN L. HENDERSON ET AL Well number 513155

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"	1,091'	NEW	J-55 54.5LB/FT	None	Y
Coal							
Intermediate 1	12.375"	9.625"	5,279'	NEW	P-110 40LB/FT	None	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	12881	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	38	15.6	1.18	44.84	0	8
Surface	CLASS A	866	15.6	1.20	1,021.88	0	8
Coal							
Intermediate 1	CLASS A / A / A	447 / 380 / 1,205	14.2 / 15.6 / 15.6	1.24 / 1.18 / 1.18	2,424.58	0	8
Intermediate 2							
Intermediate 3							
Production	Class A 50/50 POZ / H	870 / 565	14.2 / 15.2	1.26 / 1.97	2209.25	4200'	8
Tubing							

Drillers TD (ft) 12885' Loggers TD (ft) 12885'
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5413'

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 placed every 500' from 1089' to 165'
 INTERMEDIATE- (11) Centralizers placed at least every 500' FEET from 5277' to 84'
 PRODUCTION- (181) Centralizers on every joint from 12881' to 5281'

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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- 017 - 6504 Farm name JUSTIN L. HENDERSON ET AL Well number 513155

Drilling Contractor Patterson UTI
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Phoenix Technology Services
Address 1805 Brittmoore Road City Houston State TX Zip 77043

Logging Company Gyro Data Inc.
Address 601 Mayer St. City Bridgeville State PA Zip 15017

Cementing Company C & J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

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WELL #513155 FINAL FORMATIONS				
Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	1	1	411	411
SAND/SHALE	1	1	256	256
WASHINGTON COAL	256	256	258	258
SAND/SHALE	258	258	323	323
WAYNESBURG A COAL	323	323	325	325
SAND/SHALE	325	325	484	484
UNIONTOWN COAL	484	484	486	486
SAND/SHALE	486	486	626	626
SEWICKLEY	626	626	628	628
SAND/SHALE	628	628	742	742
REDSTONE COAL	742	742	743	743
SAND/SHALE	743	743	745	745
PITTSBURGH COAL	745	745	749	749
SAND/SHALE	749	749	2,030.00	2,029.80
BIG LIME	2,030.00	2,029.80	2,174.00	2,173.70
SAND/SHALE	2,174.00	2,173.70	2,323.00	2,322.70
WEIR	2,323.00	2,322.70	2,437.00	2,436.60
SAND/SHALE	2,437.00	2,436.60	2,531.00	2,530.60
GANTZ	2,531.00	2,530.60	2,608.00	2,607.60
50F	2,608.00	2,607.60	2,684.00	2,683.50
SAND/SHALE	2,684.00	2,683.50	2,730.00	2,729.50
30F	2,730.00	2,729.50	2,765.00	2,764.50
SAND/SHALE	2,765.00	2,764.50	2,779.00	2,778.50
GORDON	2,779.00	2,778.50	2,870.00	2,869.50
4TH SAND	2,870.00	2,869.50	3,051.00	3,050.40
BAYARD	3,051.00	3,050.40	3,151.00	3,150.30
SAND/SHALE	3,151.00	3,150.30	3,388.00	3,387.20
WARREN	3,388.00	3,387.20	3,447.00	3,446.10
SAND/SHALE	3,447.00	3,446.10	3,459.00	3,458.10
SPEECHLEY	3,459.00	3,458.10	3,703.00	3,702.00
SAND/SHALE	3,703.00	3,702.00	4,139.00	4,137.10
BALLTOWN A	4,139.00	4,137.10	4,253.00	4,250.60
SAND/SHALE	4,253.00	4,250.60	4,338.00	4,335.20
RILEY	4,338.00	4,335.20	4,484.00	4,480.40
SAND/SHALE	4,484.00	4,480.40	5,009.00	5,001.80
BENSON	5,009.00	5,001.80	5,049.00	5,041.50
SAND/SHALE	5,049.00	5,041.50	5,180.00	5,171.60
ALEXANDER	5,180.00	5,171.60	6,211.00	5,995.80
RHINESTREET UPPER	6,211.00	5,995.80	6,362.00	6,038.50
RHINESTREET	6,362.00	6,038.50	7,448.00	6,354.60
SONYEA	7,448.00	6,354.60	7,842.00	6,492.70
MIDDLESEX	7,842.00	6,492.70	8,000.00	6,546.10
GENESSEE	8,000.00	6,546.10	8,196.00	6,608.90
GENESEO	8,196.00	6,608.90	8,338.00	6,654.60
TULLY	8,338.00	6,654.60	8,414.00	6,672.20
HAMILTON	8,414.00	6,672.20	8,530.00	6,693.60
MARCELLUS	8,530.00	6,693.60		

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513155 - 47-017-06504-0000- Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	5/20/2015	12,879.00	12,881.00	10	MARCELLUS
1	6/12/2015	12,727.00	12,849.00	42	MARCELLUS
2	6/12/2015	12,547.00	12,669.00	42	MARCELLUS
2.1	6/13/2015	12,512.00	12,534.00	28	MARCELLUS
3	6/13/2015	12,332.00	12,454.00	42	MARCELLUS
4	6/13/2015	12,152.00	12,274.00	42	MARCELLUS
5	6/14/2015	11,972.00	12,094.00	42	MARCELLUS
6	6/14/2015	11,792.00	11,912.00	42	MARCELLUS
7	6/14/2015	11,612.00	11,734.00	42	MARCELLUS
8	6/14/2015	11,432.00	11,554.00	42	MARCELLUS
9	6/14/2015	11,252.00	11,374.00	42	MARCELLUS
10	6/15/2015	11,072.00	11,194.00	42	MARCELLUS
11	6/15/2015	10,892.00	11,014.00	42	MARCELLUS
12	6/15/2015	10,712.00	10,834.00	42	MARCELLUS
13	6/15/2015	10,532.00	10,654.00	42	MARCELLUS
14	6/15/2015	10,352.00	10,474.00	42	MARCELLUS
15	6/16/2015	10,172.00	10,290.00	42	MARCELLUS
16	6/16/2015	9,992.00	10,114.00	42	MARCELLUS
17	6/16/2015	9,812.00	9,934.00	42	MARCELLUS
18	6/16/2015	9,632.00	9,754.00	42	MARCELLUS
19	6/16/2015	9,452.00	9,574.00	42	MARCELLUS
20	6/16/2015	9,272.00	9,392.00	42	MARCELLUS
20.1	6/17/2015	9,228.00	9,250.00	28	MARCELLUS
21	6/17/2015	9,046.00	9,168.00	42	MARCELLUS
21.02	6/17/2015	9,036.00	9,057.00	28	MARCELLUS
22	6/18/2015	8,866.00	8,988.00	42	MARCELLUS
23	6/18/2015	8,686.00	8,808.00	42	MARCELLUS
24	6/18/2015	8,506.00	8,611.00	42	MARCELLUS
25	6/18/2015	8,326.00	8,450.00	42	MARCELLUS

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513155 - 47-017-06504-0000- 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	6/12/2015	12.6	7,354.00	8,913.00	4,306.00	0	721	0
1	6/13/2015	92	7,729.00	8,606.00	4,374.00	301,089	7548	0
2	6/13/2015	92.9	8,077.00	9,080.00	4,277.00	300,999	10230	0
3	6/13/2015	97.7	7,639.00	8,871.00	4,373.00	299,710	7269	0
4	6/13/2015	98.2	7,687.00	7,984.00	5,176.00	301,020	7260	0
5	6/14/2015	98.9	7,708.00	8,470.00	4,989.00	360,688	8526	0
6	6/14/2015	100.1	7,814.00	9,093.00	5,001.00	362,073	8347	0
7	6/14/2015	99.3	8,083.00	8,964.00	5,195.00	360,599	8209	0
8	6/14/2015	98.7	7,826.00	8,974.00	4,812.00	361,874	8268	0
9	6/14/2015	100.3	7,761.00	8,753.00	5,026.00	362,290	8412	0
10	6/15/2015	99.6	7,735.00	8,029.00	4,725.00	359,418	8423	0
11	6/15/2015	100.2	7,839.00	8,746.00	5,130.00	360,381	7847	0
12	6/15/2015	100.4	7,724.00	8,472.00	5,008.00	360,399	7889	0
13	6/15/2015	100.7	7,929.00	8,260.00	4,385.00	359,138	8228	0
14	6/15/2015	100.3	7,802.00	8,442.00	4,631.00	359,908	8252	0
15	6/16/2015	100.1	7,790.00	8,628.00	5,029.00	359,823	8308	0
16	6/16/2015	100	7,987.00	8,846.00	5,118.00	356,499	7917	0
17	6/16/2015	99.2	7,922.00	8,890.00	5,321.00	358,332	7910	0
18	6/16/2015	98.9	7,650.00	7,905.00	5,289.00	358,768	7949	0
19	6/16/2015	99.3	7,546.00	8,069.00	5,352.00	360,770	8,215	0
20	6/17/2015	92.10	7,761.00	9,523.00	8,801	361,320	12,689	0
21	6/17/2015	83.60	7,921.00	9,586.00	5,127	3,557	3,218	0
21.01	6/17/2015	85.10	7,840.00	9,587.00	4,712	176,074	5,197	0
21.02	6/17/2015	0.00	0.00	6,695.00	5,109	0	2,212	0
22	6/18/2015	96.20	7,720.00	7,904.00	5,252	358,055	7,780	0
23	6/18/2015	99.40	7,717.00	8,799.00	5,205	358,036	8184	0
24	6/18/2015	98.00	7,838.00	8,340.00	4,253	361,623	7892	0
25	6/19/2015	99.6	7,686.00	8,410.00	3,831.00	360,145	8042	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/12/2015
Job End Date:	6/19/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06504-00-00
Operator Name:	EQT Production
Well Name and Number:	513155
Longitude:	-80.76224800
Latitude:	39.20783900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,694
Total Base Water Volume (gal):	8,859,564
Total Base Non Water Volume:	0



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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	FTS International	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.20986	None
Sand (Proppant)	FTS International	Proppant	Crystalline Silica	14808-60-7	100.00000	10.35601	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05825	None
FRW-900	FTS International	Friction reducer	Hydrotreated light distillate	64742-47-8	30.00000	0.02469	None
			Alkyl Alcohol	Proprietary	10.00000	0.00823	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00411	None
Hydrochloric Acid (15%)	FTS International	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03313	None
HVG-1	FTS International	Gelling agent	Petroleum distillate	64742-47-8	55.00000	0.00371	None
			Guar gum	9000-30-0	50.00000	0.00337	None
			Clay	14808-60-7	2.00000	0.00013	None
			Surfactant	68439-51-0	2.00000	0.00013	None
CS-500-SI	FTS International	Scale inhibitor					

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FE-100L	FTS International	Iron control	Ethylene glycol	107-21-1	10.00000	0.00249	None
			Citric acid	77-92-9	55.00000	0.00074	None
CI-150	FTS International	Acid Corrosion Inhibitor					
			Organic amine resin salt	Proprietary	30.00000	0.00012	None
			Ethylene glycol	107-21-1	30.00000	0.00012	None
			Isopropanol	67-63-0	30.00000	0.00012	None
			Dimethylformamide	68-12-2	10.00000	0.00004	None
			Quaternary ammonium compound	Proprietary	10.00000	0.00004	None
			Aromatic aldehyde	Proprietary	10.00000	0.00004	None
NE-100	FTS International	Non-emulsifier					
			2-Butoxyethanol	111-76-2	10.00000	0.00003	None
			2-Propanol	67-63-0	10.00000	0.00003	None
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00002	None
APB-1	FTS International	Breaker					
			Ammonium persulfate	7727-54-0	95.00000	0.00008	None
B-10	FTS International	High pH buffer					
			Potassium carbonate	584-08-7	48.00000	0.00003	None
			Potassium hydroxide	1310-58-3	20.00000	0.00001	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.							

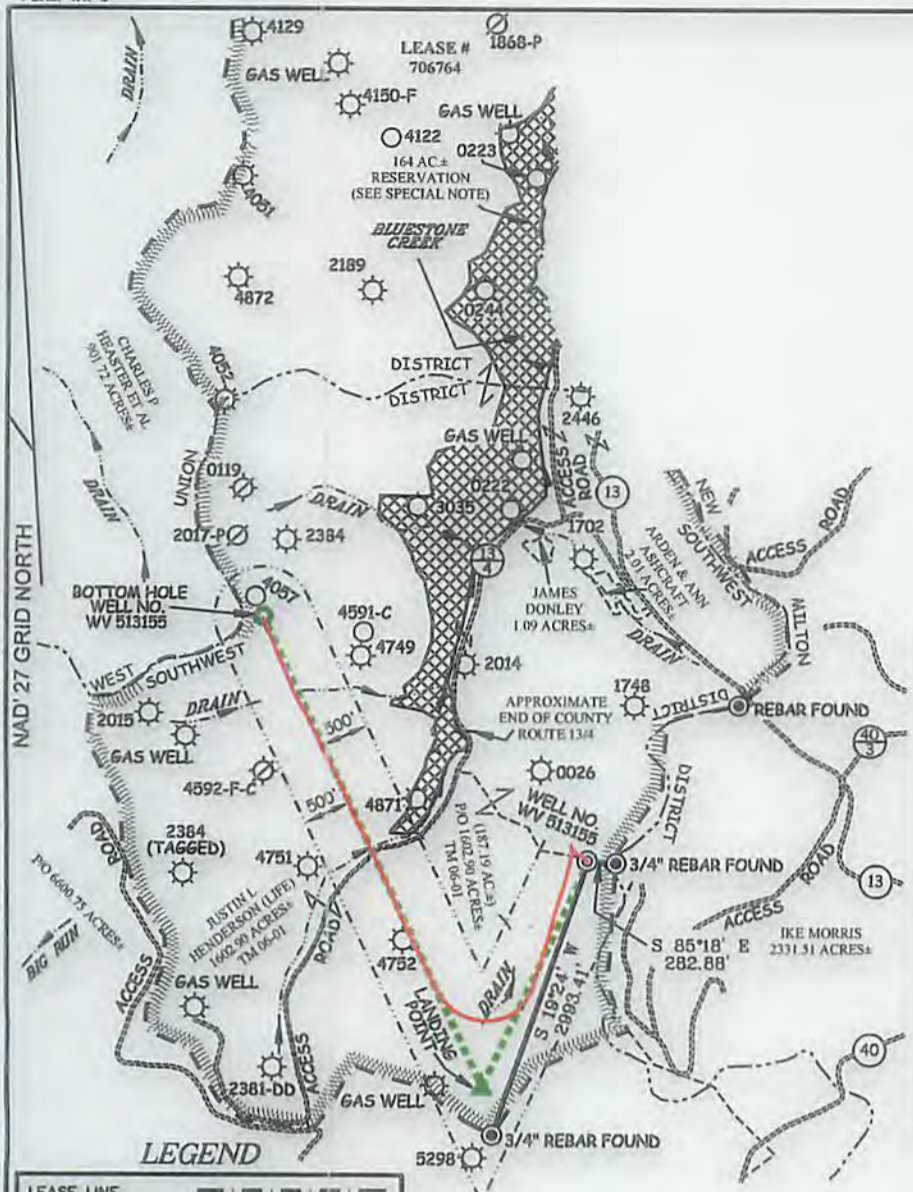
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** 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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LATITUDE 39°12'30"
SPECIAL NOTE
 THERE IS NO SURVEY OR LEGAL DESCRIPTION DEFINING THE ACTUAL LOCATION OF THE 164 ACRE MEADOWLAND RESERVATION, DUE TO THE PASSAGE OF TIME SINCE THE RESERVATION WAS CREATED IT APPEARS THERE IS NO LIVING PERSON(S) WITH KNOWLEDGE OF ITS TRUE LOCATION. LOCATION OF RESERVATION SHOWN HEREON COMPILED FROM: "A" A MAP TITLED "CARNAGIE NATURAL GAS CO. LEEMAN MAXWELL LEASES, DODDRIDGE COUNTY, WEST VA" "B" PERIMETER OF RESERVATION AS SHOWN BY GLENN TRADER "CARETAKER OF HENDERSONS" PORTION OF MAXWELL LANDS" WHICH WAS LOCATED USING A MAPPING GRADE GPS RECEIVER "C" DETAILS SHOWN ON 1939 USDA AERIAL PHOTOGRAPHY OBTAINED FROM THE WV GEOLOGICAL SURVEY. SLS RECOMMENDS THAT PROPER LEGAL STEPS BE TAKEN TO CONFIRM CONCURRENCE OF ALL APPROPRIATE PARTIES RELATIVE TO THE RESERVATION AS SHOWN HEREON. THIS PLAN IS SUBJECT TO ANY ADDITIONAL INFORMATION (UNDISCOVERED TO DATE) WHICH MAY CHANGE THE LOCATION AND/OR CONFIGURATION OF THE RESERVATION AS SHOWN HEREON.

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.

**EQT PRODUCTION COMPANY
 LEEMAN MAXWELL LEASE
 2,164 ACRES±
 WELL NO. WV 513155**

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

NAD'27 S.P.C.(FT)	N. 260,322.0	E. 1,642,326.6
NAD'27 GEO.	LAT-(N) 39.207839	LONG-(W) 80.762248
NAD'83 UTM (M)	N. 4,339,877.5	E. 520,542.0

LANDING POINT

NAD'27 S.P.C.(FT)	N. 257,992.4	E. 1,641,230.8
NAD'27 GEO.	LAT-(N) 39.201401	LONG-(W) 80.765999
NAD'83 UTM (M)	N. 4,339,162.2	E. 520,220.0

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 262,832.1	E. 1,638,974.0
NAD'27 GEO.	LAT-(N) 39.214600	LONG-(W) 80.774204
NAD'83 UTM (M)	N. 4,340,625.1	E. 519,507.8

**AS DRILLED COORDINATES
 FOR WELL NO. WV 513155**

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

NAD'27 S.P.C.(FT)	N. 260,322.0	E. 1,642,326.6
NAD'27 GEO.	LAT-(N) 39.207839	LONG-(W) 80.762248
NAD'83 UTM (M)	N. 4,339,877.5	E. 520,542.0

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 262,824.9	E. 1,638,967.9
NAD'27 GEO.	LAT-(N) 39.214580	LONG-(W) 80.774225
NAD'83 UTM (M)	N. 4,340,622.9	E. 519,506.0

Professional Energy Consultants
 A DIVISION OF SMITH LAND SURVEYS, INC.

SLS
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

(304) 452-5834 WWW.SLSSURVEYS.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 06, 20 14
 REVISED 3/17/14, 07/25/14 & 05/05/15
 OPERATORS WELL NO. WV 513155
 API WELL NO. 47 - 017 - 06504H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7889AD513155
 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 X LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1,274'(GROUND) 1,252'(PROPOSED) WATERSHED BLUESTONE CREEK
 DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER JUSTIN L. HENDERSON (LIFE) ACREAGE 187.19 OF 1,602.90±
 ROYALTY OWNER LEEMAN MAXWELL HRS ACREAGE 2,164± 10/16/2015

PROPOSED WORK: LEASE NO. 706764
 DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X 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 TVD 6,663'

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