

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

API 47 - 091 - 01322 County Taylor District FLEMINGTON
Quad ROSEMONT 7.5' Pad Name RSM118 Field/Pool Name _____
Farm name JAMES M. TAYLOR ET AL Well Number 515750
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 4,349,720.9 Easting 569,605.5
Landing Point of Curve Northing 4,349,978.6 Easting 570,517.9
Bottom Hole Northing 4,347,816 Easting 571,346

Elevation (ft) 1465 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 13.0 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 07/09/2015 Date drilling commenced 07/22/2015 Date drilling ceased 8/17/2015
Date completion activities began 11/11/2015 Date completion activities ceased 11/23/2015
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

Freshwater depth(s) ft 282,606,827 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1357 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 22,600,646,697,757,797,813,847,889,938,1071 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

NAME: Arnold Stappell
DATE: 11-1-16

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Reviewed by: AK/BDD/16
10/02/16

APPROVED

NAME

DATE

11/04/2016

11/04/2016

API 47-091 - 01322 Farm name JAMES M. TAYLOR ET AL Well number 515750

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"	60'	NEW	A-500 94LB/FT	NONE	Y
Surface	17.5"	13.375"	913'	NEW	J-55 54.5LB/FT	206'	Y
Coal							
Intermediate 1	12.375"	9.625"	2503'	NEW	A-500 40LB/FT	1532'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	17,900'	NEW	P-110 20LB/FT	NONE	N
Tubing							
Packer type and depth set							

Comment Details N/A

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	58	15.6	1.18	68.44	0	8
Surface	CLASS A	735	15.6	1.20	882	0	8
Coal							
Intermediate 1	CLASS A / CLASS H	437 / 473	15.2 / 16.0	1.25 / 1.25	1137.5	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A / CLASS H	1,315 / 1,280	15.2 / 15.6	1.07 / 1.84	1,407 / 2,355.2 / 3762.2	1,651'	24
Tubing							

Drillers TD (ft) 17,903' 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) 3,264' 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: 1,11,18
 INTERMEDIATE- 6 CENTRALIZERS RAN AT LEAST EVERY 500' FEET
 PRODUCTION- Composite body spiral centralizers run every joint from TD to 3,200' RMD.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ RECEIVED
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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____ FEB 18 2016

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____ WV Department of
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API 47- 091 - 01322 Farm name JAMES M. TAYLOR ET AL Well number 515750

Drilling Contractor Savanna Drilling Rig 803
Address 125 Industry Road City Rices Landing State PA Zip 15357

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

Logging Company Hoss Co. Services LLC
Address 614 Trotters Lane City Charleston State WV Zip 25312

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

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515750 Final Formations

API # 47-9101322

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	1		837	
SAND/SHALE	1		32	
PITTSBURGH COAL	32		38	
SAND/SHALE	38		610	
COAL	610		615	
SAND/SHALE	615		656	
COAL	656		661	
SAND/SHALE	661		707	
UPPER FREEPORT	707		708	
SAND/SHALE	708		767	
LOWER FREEPORT	767		768	
SAND/SHALE	768		807	
UPPER KITTANNING	807		808	
SAND/SHALE	808		823	
MIDDLE KITTANNING	823		828	
SAND/SHALE	828		857	
LOWER KITTANNING	857		858	
SAND/SHALE	858		899	
COAL	899		905	
SAND/SHALE	905		948	
COAL	948		953	
SAND/SHALE	953		1,081.00	
MAXTON	981		1,058.00	
SAND/SHALE	1,058.00		1,360.00	
COAL	1,081.00		1,085.00	
BIG LIME	1,360.00		1,542.00	
SAND/SHALE	1,542.00		1,643.00	
WEIR	1,643.00		1,657.00	
SAND/SHALE	1,657.00		1,871.00	
GANTZ	1,871.00		1,937.00	
SAND/SHALE	1,937.00		1,945.00	
50F	1,945.00		1,995.00	
SAND/SHALE	1,995.00		2,052.00	
30F	2,052.00		2,092.00	
SAND/SHALE	2,092.00		2,130.00	
GORDON	2,130.00		2,180.00	
SAND/SHALE	2,180.00		2,276.00	
4TH SAND	2,276.00		2,371.00	
SAND/SHALE	2,371.00		2,419.00	
BAYARD	2,419.00		2,466.00	
SAND/SHALE	2,466.00		2,811.00	
WARREN	2,811.00		3,157.00	
SPEECHLEY	3,157.00		3,439.00	
BRADFORD	3,439.00		3,608.00	
BALLTOWN B	3,608.00		3,855.00	
RILEY	3,855.00		4,467.00	
BENSON	4,467.00		5,018.00	4,716.80
ELK	5,018.00	4,716.80	7,550.00	6,583.70
SONYEA	7,550.00	6,583.70	8,159.00	7,028.30
MIDDLESEX	8,159.00	7,028.30	8,289.00	7,130.50
GENESSEE	8,289.00	7,130.50	8,471.00	7,265.30
GENESE0	8,471.00	7,265.30	8,502.00	7,286.90
TULLY	8,502.00	7,286.90	8,583.00	7,341.40
HAMILTON	8,583.00	7,341.40	8,811.00	7,473.30
MARCELLUS	8,811.00	7,473.30		

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515750- 47-091-01322-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	10/23/2015	17,898.00	17,900.00	10	MARCELLUS
1	11/12/2015	17,755.00	17,847.00	32	MARCELLUS
2	11/12/2015	17,605.00	17,722.00	40	MARCELLUS
3	11/12/2015	17,455.00	17,577.00	40	MARCELLUS
4	11/12/2015	17,305.00	17,427.00	40	MARCELLUS
5	11/13/2015	17,155.00	17,277.00	40	MARCELLUS
6	11/13/2015	17,005.00	17,127.00	40	MARCELLUS
7	11/13/2015	16,855.00	16,977.00	40	MARCELLUS
8	11/13/2015	16,705.00	16,827.00	40	MARCELLUS
9	11/13/2015	16,555.00	16,677.00	40	MARCELLUS
10	11/14/2015	16,405.00	16,527.00	40	MARCELLUS
11	11/14/2015	16,255.00	16,377.00	40	MARCELLUS
12	11/14/2015	16,105.00	16,227.00	40	MARCELLUS
13	11/14/2015	15,955.00	16,077.00	40	MARCELLUS
14	11/15/2015	15,805.00	15,927.00	40	MARCELLUS
15	11/15/2015	15,655.00	15,777.00	40	MARCELLUS
16	11/15/2015	15,505.00	15,627.00	40	MARCELLUS
17	11/15/2015	15,355.00	15,477.00	40	MARCELLUS
18	11/16/2015	15,205.00	15,327.00	40	MARCELLUS
19	11/16/2015	15,055.00	15,177.00	40	MARCELLUS
20	11/16/2015	14,905.00	15,027.00	40	MARCELLUS
21	11/16/2015	14,755.00	14,877.00	40	MARCELLUS
22	11/16/2015	14,605.00	14,727.00	40	MARCELLUS
23	11/17/2015	14,455.00	14,577.00	40	MARCELLUS
24	11/17/2015	14,305.00	14,427.00	40	MARCELLUS
25	11/17/2015	14,155.00	14,277.00	40	MARCELLUS
26	11/17/2015	14,005.00	14,127.00	40	MARCELLUS
27	11/17/2015	13,855.00	13,977.00	40	MARCELLUS
28	11/18/2015	13,705.00	13,827.00	40	MARCELLUS
29	11/18/2015	13,555.00	13,677.00	40	MARCELLUS
30	11/18/2015	13,555.00	13,677.00	40	MARCELLUS
31	11/18/2015	13,255.00	13,377.00	40	MARCELLUS
32	11/18/2015	13,105.00	13,227.00	40	MARCELLUS
33	11/19/2015	12,955.00	13,072.00	40	MARCELLUS
34	11/19/2015	12,805.00	12,927.00	40	MARCELLUS
35	11/19/2015	12,655.00	12,777.00	40	MARCELLUS
36	11/19/2015	12,505.00	12,627.00	40	MARCELLUS
37	11/19/2015	12,355.00	12,477.00	40	MARCELLUS
38	11/20/2015	12,205.00	12,327.00	40	MARCELLUS
39	11/20/2015	12,055.00	12,177.00	40	MARCELLUS
40	11/20/2015	11,905.00	12,027.00	40	MARCELLUS
41	11/20/2015	11,755.00	11,877.00	40	MARCELLUS
42	11/20/2015	11,605.00	11,727.00	40	MARCELLUS
43	11/21/2015	11,455.00	11,577.00	40	MARCELLUS
44	11/21/2015	11,305.00	11,427.00	40	MARCELLUS
45	11/21/2015	11,155.00	11,277.00	40	MARCELLUS
46	11/21/2015	11,005.00	11,127.00	40	MARCELLUS
47	11/21/2015	10,855.00	10,977.00	40	MARCELLUS
48	11/21/2015	10,705.00	10,827.00	40	MARCELLUS
49	11/22/2015	10,555.00	10,675.00	40	MARCELLUS
50	11/22/2015	10,405.00	10,525.00	40	MARCELLUS
51	11/22/2015	10,255.00	10,377.00	40	MARCELLUS
52	11/22/2015	10,105.00	10,227.00	40	MARCELLUS
53	11/22/2015	9,955.00	10,077.00	40	MARCELLUS
54	11/22/2015	9,805.00	9,927.00	40	MARCELLUS
55	11/23/2015	9,655.00	9,777.00	40	MARCELLUS
56	11/23/2015	9,505.00	9,627.00	40	MARCELLUS
57	11/23/2015	9,355.00	9,577.00	40	MARCELLUS
58	11/23/2015	9,205.00	9,327.00	40	MARCELLUS

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515750- 47-091-01322-0000 - 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	11/11/2015	14.40	8,020.00	9,272.00	4,913.00	0	914	0
1	11/12/2015	90.30	8,972.00	9,260.00	4,589.00	249,180	8053	0
2	11/12/2015	86.60	8,994.00	9,201.00	5,055.00	249,970	7257	0
3	11/12/2015	88.50	9,066.00	9,214.00	5,027.00	251,970	6910	0
4	11/12/2015	90.30	8,895.00	9,129.00	5,387.00	251,750	7139	0
5	11/13/2015	89.10	8,828.00	9,039.00	5,273.00	251,690	7131	0
6	11/13/2015	90.20	8,982.00	9,149.00	5,322.00	251,880	7085	0
7	11/13/2015	81.80	8,937.00	9,172.00	5,274.00	251,880	7018	0
8	11/13/2015	84.30	9,037.00	9,250.00	5,336.00	248,960	6492	0
9	11/13/2015	85.30	9,043.00	9,196.00	5,540.00	249,220	6814	0
10	11/14/2015	80.00	8,993.00	9,194.00	5,552.00	249,160	6948	0
11	11/14/2015	79.50	8,987.00	9,199.00	5,187.00	249,540	6805	0
12	11/14/2015	80.40	9,017.00	9,279.00	5,067.00	248,420	6579	0
13	11/14/2015	82.10	9,005.00	9,344.00	5,296.00	252,080	7352	0
14	11/15/2015	80.30	8,934.00	9,193.00	5,604.00	249,380	6827	0
15	11/15/2015	83.20	8,855.00	9,259.00	5,582.00	252,100	6561	0
16	11/15/2015	80.80	8,993.00	9,301.00	5,285.00	252,600	6615	0
17	11/15/2015	84.00	9,012.00	9,330.00	5,335.00	250,740	6753	0
18	11/16/2015	82.90	8,967.00	9,223.00	5,444.00	251,440	6,888	0
19	11/16/2015	91.80	8,918.00	9,057.00	5,487.00	255,140	6,711	0
20	11/16/2015	80.70	9,030.00	9,155.00	5,687.00	250,960	6,337	0
21	11/16/2015	83.30	9,067.00	9,304.00	5,535.00	250,660	6,945	0
22	11/16/2015	89.30	8,934.00	9,359.00	5,983.00	250,620	6,756	0
23	11/17/2015	86.00	9,011.00	9,231.00	5,719.00	249,860	6,904	0
24	11/17/2015	91.20	9,019.00	9,126.00	5,789.00	253,320	6439	0
25	11/17/2015	87.60	9,017.00	9,187.00	5,839.00	250,060	6591	0
26	11/17/2015	84.90	9,030.00	9,282.00	6,053.00	248,940	6804	0
27	11/17/2015	84.20	9,042.00	9,287.00	5,619.00	248,500	6632	0
28	11/18/2015	87.30	9,005.00	9,160.00	5,646.00	250,640	6822	0
29	11/18/2015	87.70	9,051.00	9,412.00	5,892.00	249,500	6430	0
30	11/18/2015	86.00	8,825.00	8,959.00	5,714.00	250,020	6389	0
31	11/18/2015	85.00	8,892.00	9,299.00	5,402.00	250,140	6391	0
32	11/18/2015	78.70	8,887.00	9,236.00	5,455.00	253,820	6826	0
33	11/19/2015	84.60	8,852.00	9,008.00	6,369.00	250,860	6666	0
34	11/19/2015	85.40	8,926.00	9,177.00	6,263.00	251,400	6390	0
35	11/19/2015	85.00	8,938.00	9,000.00	5,851.00	250,620	6547	0
36	11/19/2015	87.90	8,943.00	9,295.00	5,901.00	254,640	6379	0
37	11/19/2015	92.00	8,769.00	8,907.00	5,819.00	250,940	6663	0
38	11/20/2015	88.90	8,752.00	9,070.00	5,601.00	250,740	6816	0
39	11/20/2015	88.40	8,944.00	8,998.00	6,061.00	250,100	6405	0
40	11/20/2015	89.80	8,950.00	8,995.00	5,757.00	251,800	6506	0
41	11/20/2015	77.50	8,908.00	9,374.00	5,738.00	251,040	6736	0
42	11/20/2015	79.80	8,660.00	9,126.00	5,843.00	248,600	6525	0
43	11/21/2015	76.50	8,877.00	9,175.00	5,641.00	251,200	6701	0
44	11/21/2015	80.60	8,923.00	8,982.00	5,675.00	252,220	6347	0
45	11/21/2015	82.20	8,916.00	8,997.00	6,104.00	250,340	6158	0
46	11/21/2015	83.30	8,875.00	8,980.00	6,116.00	251,640	6066	0
47	11/21/2015	91.70	8,876.00	9,380.00	6,056.00	249,360	6340	0
48	11/21/2015	88.50	8,942.00	9,110.00	5,839.00	251,920	6420	0
49	11/22/2015	89.20	8,881.00	8,944.00	5,928.00	252,500	6356	0
50	11/22/2015	92.30	8,903.00	8,999.00	6,074.00	249,960	6235	0
51	11/22/2015	91.70	8,916.00	8,980.00	6,035.00	250,980	6209	0
52	11/22/2015	92.90	8,926.00	9,034.00	6,066.00	251,240	5941	0
53	11/22/2015	95.60	8,758.00	8,960.00	5,791.00	252,380	6196	0
54	11/22/2015	90.00	8,928.00	9,211.00	5,488.00	250,240	6564	0
55	11/23/2015	92.00	8,952.00	9,000.00	5,863.00	248,680	6341	0
56	11/23/2015	93.00	8,939.00	8,996.00	5,889.00	252,360	6055	0
57	11/23/2015	89.20	8,940.00	8,998.00	5,987.00	250,200	5979	0
58	11/23/2015	88.00	8,708.00	9,113.00	5,356.00	252,260	7389	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/11/2015
Job End Date:	11/23/2015
State:	West Virginia
County:	Taylor
API Number:	47-091-01322-00-00
Operator Name:	EQT Production
Well Name and Number:	515750
Longitude:	-80.19301100
Latitude:	39.29397700
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,473
Total Base Water Volume (gal):	16,214,016
Total Base Non Water Volume:	0



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	Keane Group	Carrier/Base Fluid	Water	7732-18-5	100.00000	90.07205	None
Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100.00000	9.68739	None
Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.02740	None
FFR760	Keane Group	Friction Reducer	Hydrotreated Light Distillate	64742-47-8	30.00000	0.01723	None
			Alkyl Alcohol	Proprietary	10.00000	0.00574	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00287	None
AI 600	Keane Group	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00018	None
			N, N-Dimethylformamide	68-12-2	20.00000	0.00009	None
			Tar bases, quinoline derivs, benzyl chloride-quatemized	72480-70-7	15.00000	0.00007	None
			Cinnamialdehyde	104-55-2	15.00000	0.00007	None
			2-Butoxyethanol	111-76-2	15.00000	0.00007	None
			Poly (oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	5.00000	0.00002	None

			1-Decanol	112-30-1	5.00000	0.00002	None
			1-Octanol	111-87-5	2.50000	0.00001	None
			Triethyl Phosphate	78-40-0	2.50000	0.00001	None
			Isopropyl alcohol	67-63-0	2.50000	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)

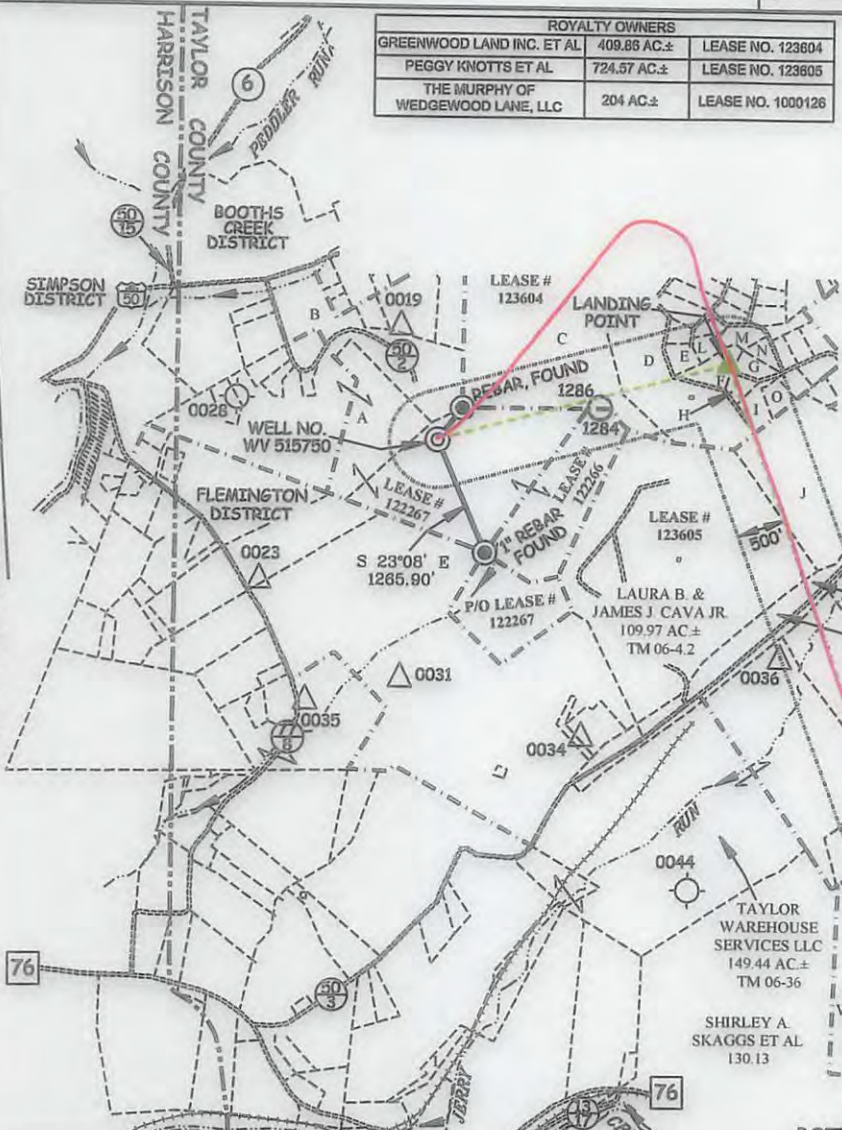
ROYALTY OWNERS		
GREENWOOD LAND INC. ET AL	409.85 AC±	LEASE NO. 123604
PEGGY KNOTTS ET AL	724.57 AC±	LEASE NO. 123605
THE MURPHY OF WEDGEWOOD LANE, LLC	204 AC±	LEASE NO. 1000126

**EQT PRODUCTION COMPANY
TAYLOR LEASE
123 ACRES±
WELL NO. WV 515750
(RSM118 H14)**

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

POINT	NAD'27 S.P.C.(FT)	N	E
LANDING POINT	NAD'27 S.P.C.(FT)	N. 289,938.9	E. 1,803,864.3
LANDING POINT	NAD'27 GEO.	LAT-(N) 39.293977	LONG-(W) 80.193012
LANDING POINT	NAD'83 UTM (M)	N. 4,349,720.9	E. 569,605.5
BOTTOM HOLE	NAD'27 S.P.C.(FT)	N. 290,734.8	E. 1,806,872.2
BOTTOM HOLE	NAD'27 GEO.	LAT-(N) 39.296225	LONG-(W) 80.182405
BOTTOM HOLE	NAD'83 UTM (M)	N. 4,349,978.6	E. 570,517.9
BOTTOM HOLE	NAD'27 S.P.C.(FT)	N. 283,593.1	E. 1,809,471.6
BOTTOM HOLE	NAD'27 GEO.	LAT-(N) 39.276671	LONG-(W) 80.173032
BOTTOM HOLE	NAD'83 UTM (M)	N. 4,347,816.0	E. 571,346.0

NAD'27 GRID NORTH



NOTES ON SURVEY

- 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.
- AS DRILLED INFORMATION PROVIDED BY EQT.

A	JAMES & MARGARET TAYLOR ET AL	137.39 AC±	TM 01-01
B	QUALITY MACHINE COMPANY INC.	25 AC±	TM 01-02
C	GREENWOOD LAND INC.	95.91 AC±	TM 01-07
D	GREENWOOD LAND INC.	24.11 AC±	TM 01-7.70
E	GREENWOOD LAND INC.	1.23 AC±	TM 01-7.59
F	GARY & SHERRY TAYLOR	3 AC±	TM 01-7.54
G	RICHARD A HEIM	1.68 AC±	TM 01-7.55
H	GREENWOOD LAND INC.	1.10 AC±	TM 01-7.69
I	GREENWOOD LAND INC.	2.06 AC±	TM 01-7.68
J	TAMMY J. & JAMES L. JONES II	30.45 AC±	TM 06-4.1
K	TAYLOR COUNTY COMMISSION	20.97 AC±	TM 06-36.1
L	JOSEPH & VIOLET PASTORIAL	1.50 AC±	TM 01-7.53
M	RICHARD A HEIM	1.73 AC±	TM 01-7.56
N	GREENLAND GROUP CORPORATION III	1.18 AC±	TM 01-7.61
O	TODD & VERONICA RABER	1.64 AC±	TM 01-7.57

LEGEND

LEASE LINE	---
SURFACE LINE	----
PROPOSED PATH	---
AS DRILLED PATH	---
OFFSET LINE	---
TIE LINE	---
CREEK	~ ~ ~
ROAD	==
COUNTY ROUTE	==
STATE ROUTE	==
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
STORAGE HOLE	⊙
TAX MAP-PARCEL	00-00

**AS DRILLED COORDINATES
FOR WELL NO. WV 515750**

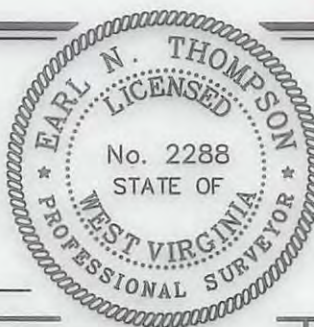
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

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LANDING POINT	NAD'27 S.P.C.(F)	N. 289,938.9	E. 1,803,864.3
LANDING POINT	NAD'27 GEO.	LAT-(N) 39.293977	LONG-(W) 80.193012
LANDING POINT	NAD'83 UTM (M)	N. 4,349,720.9	E. 569,605.5
BOTTOM HOLE	NAD'27 S.P.C.(F)	N. 283,611.7	E. 1,809,494.3
BOTTOM HOLE	NAD'27 GEO.	LAT-(N) 39.276723	LONG-(W) 80.172952
BOTTOM HOLE	NAD'83 UTM (M)	N. 4,347,821.8	E. 571,352.8

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYS INC.

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 482-5834 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 13, 20 15
REVISED 02/13/15 & 08/26/15
OPERATORS WELL NO. WV 515750
API WELL NO. 47-091-01322H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7265AD515750
SCALE 1" = 2000'
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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 1463'(GROUND)1465'(PROPOSED) WATERSHED PEDDLER RUN
DISTRICT FLEMINGTON COUNTY TAYLOR QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER JAMES M. TAYLOR ET AL ACREAGE 137.39±
ROYALTY OWNER JAMES TAYLOR (LIFE) ET AL ACREAGE 123±
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 TVD 7,498'

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

COUNTY NAME
PERMIT

11/04/2016