

APPROVED

NAME: *John A. Johnson*

DATE: *2/24/2016*

Well Operator's Report of Well Work



Well Number: 515679

API: 47 - 017 - 06608

Submission: Initial Amended

Notes:

Received
FEB 10 2016
Office of Oil and Gas
WV Dept. of Environmental Protection

03/04/2016

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

Received

FEB 10 2016

API 47 - 017 - 06608 County DODDRIDGE District SOUTHWEST
Quad OXFORD Pad Name OXF127 Field/Pool Name _____
Farm name I.L. MORRIS Well Number 515679
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 4,338,836.01 Easting 518,092.84
Landing Point of Curve Northing 4,338,338.63 Easting 518,564.71
Bottom Hole Northing 4,336,537.71 Easting 519,431.72

Elevation (ft) 1242 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 13.5 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 12/01/2014 Date drilling commenced 04/11/2015 Date drilling ceased 8/22/2015
Date completion activities began 11/5/2015 Date completion activities ceased 11/14/2015
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 83',394',502' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1034',1263',1386',1442' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 225' Cavern(s) encountered (Y/N) depths N

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

03/04/2016

State of West Virginia
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API 47-017-06608 County DODDRIDGE District SOUTHWEST
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Production hole Air Mud Fresh Water Brine

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Coal depth(s) ft 225' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

03/04/2016

API 47-017 - 06608 Farm name I.L. MORRIS Well number 515679

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 94LB/FT	NONE	Y
Surface	17.5"	13.375"	1026'	NEW	J-55 54.5LB/FT	NONE	Y
Coal							
Intermediate 1	12.375"	9.625"	2979'	NEW	A-500 40LB/FT	NONE	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	14,184'	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	38	15.6	1.18	44.84	0	8
Surface	CLASS A	866	15.6	1.20	1039.2	0	8
Coal							
Intermediate 1	CLASS A	1057	15.6	1.20	1273.2	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A / CLASS H	730 / 915	14.2 / 15.2	1.23 / 1.95	2682.15	2603	24
Tubing							

Drillers TD (ft) 14,184' 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) 4,052' 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, 21
 INTERMEDIATE- 7 CENTRALIZERS RAN AT LEAST EVERY 500' FEET
 PRODUCTION- Composite body spiral centralizers installed every joint from TD to 4,041 ft.

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

Office of Oil and Gas
Environmental Protection

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 017 - 06608 Farm name I.L. MORRIS Well number 515679

Drilling Contractor Savanna Drilling Rig 655
Address 125 Industry Road City Waynesburg State PA Zip 15370

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

Logging Company _____
Address _____ City _____ State _____ Zip _____

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

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Office of Oil and Gas
Department of Environmental Protection

515679 Final Formations (API 47-1706608)

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	505	505
SAND/SHALE	1	1	227	227
WASHINGTON COAL	227	227	228	228
SAND/SHALE	228	228	1,713.00	1,713.00
MAXTON	1,713.00	1,713.00	1,879.00	1,878.90
BIG LIME	1,879.00	1,878.90	2,172.00	2,171.90
WEIR	2,172.00	2,171.90	2,345.00	2,344.80
BEREA	2,345.00	2,344.80	2,389.00	2,388.80
GANTZ	2,389.00	2,388.80	2,470.00	2,469.80
50F	2,470.00	2,469.80	2,580.00	2,579.70
30F	2,580.00	2,579.70	2,623.00	2,622.70
GORDON	2,623.00	2,622.70	2,727.00	2,726.70
4TH SAND	2,727.00	2,726.70	2,862.00	2,861.30
5TH SAND	2,862.00	2,861.30	2,901.00	2,899.90
BAYARD	2,901.00	2,899.90	3,235.00	3,230.20
WARREN	3,235.00	3,230.20	3,306.00	3,301.20
SPEECHLEY	3,306.00	3,301.20	3,837.00	3,832.10
BALLTOWN A	3,837.00	3,832.10	3,990.00	3,985.10
BALLTOWN B	3,990.00	3,985.10	4,179.00	4,173.50
BRADFORD	4,179.00	4,173.50	4,442.00	4,415.00
RILEY	4,442.00	4,415.00	4,871.00	4,737.90
BENSON	4,871.00	4,737.90	5,102.00	4,910.20
ALEXANDER	5,102.00	4,910.20	5,827.00	5,459.80
RHINESTREET	5,827.00	5,459.80	6,875.00	6,274.60
SONYEA	6,875.00	6,274.60	7,053.00	6,413.20
MIDDLESEX	7,053.00	6,413.20	7,114.00	6,459.20
GENESSEE	7,114.00	6,459.20	7,218.00	6,529.60
GENESEO	7,218.00	6,529.60	7,305.00	6,576.40
TULLY	7,305.00	6,576.40	7,357.00	6,599.30
HAMILTON	7,357.00	6,599.30	7,398.00	6,615.20
MARCELLUS	7,398.00	6,615.20		

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Office of Oil and Gas
 Pennsylvania Department of Environmental Protection

03/04/2016

515679 47-017-06608-0000 - 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	11/5/2016	15.1	7,593.00	9,451.00	4,704.00	0	612	0
1	11/6/2015	90.1	8,269.00	9,190.00	4,801.00	248,980	7114	0
2	11/6/2015	97.3	7,998.00	8,617.00	4,886.00	249,260	6670	0
3	11/6/2015	100.7	8,095.00	9,114.00	5,823.00	250,880	6513	0
4	11/7/2015	100.2	8,024.00	8,247.00	5,276.00	252,020	6454	0
5	11/7/2015	100.3	8,019.00	8,202.00	5,121.00	247,780	6409	0
6	11/7/2015	100	7,983.00	8,147.00	5,305.00	250,940	6516	0
7	11/7/2015	100.4	7,803.00	8,096.00	5,090.00	251,140	6461	0
8	11/7/2015	100.7	7,713.00	7,870.00	5,148.00	250,620	6308	0
9	11/7/2015	99.6	7,732.00	8,052.00	5,112.00	251,040	7185	0
10	11/8/2015	100.1	7,780.00	7,983.00	4,950.00	251,200	6397	0
11	11/8/2015	100.2	7,880.00	8,467.00	5,119.00	250,860	6560	0
12	11/8/2015	100.2	7,918.00	8,287.00	5,501.00	254,100	6219	0
13	11/8/2015	100.4	7,778.00	7,812.00	5,649.00	251,340	6210	0
14	11/9/2015	100.3	7,955.00	8,082.00	5,654.00	253,460	6116	0
15	11/9/2015	99.9	7,675.00	7,949.00	5,033.00	251,000	6283	0
16	11/9/2015	100.6	7,657.00	7,915.00	5,051.00	250,680	6281	0
17	11/9/2015	100.4	8,016.00	8,295.00	4,757.00	250,040	6145	0
18	11/9/2015	100.00	8,119.00	9,089.00	4,815.00	250,660	6,048	0
19	11/9/2015	95.40	7,972.00	9,773.00	5,975.00	253,380	6,604	0
19:01	11/10/2015	13.10	5,012.00	7,880.00	4,877.00	62,080	3,550	0
20	11/10/2015	101.20	7,526.00	7,649.00	4,896.00	250,160	6,399	0
21	11/10/2015	101.90	7,704.00	7,968.00	5,272.00	251,860	6,205	0
22	11/10/2015	101.20	7,596.00	7,753.00	4,769.00	253,740	6,167	0
23	11/10/2015	101.5	7,481.00	7,671.00	5,055.00	250,240	6190	0
24	11/11/2015	100.4	7,968.00	8,228.00	5,144.00	248,240	6145	0
25	11/11/2015	100.4	7,565.00	9,254.00	5,288.00	252,380	6361	0
26	11/11/2015	100	7,405.00	7,805.00	4,776.00	250,500	6015	0
27	11/12/2015	99.1	7,328.00	7,811.00	4,718.00	250,500	6240	0
28	11/12/2015	98.8	7,101.00	7,504.00	4,991.00	249,540	6366	0
29	11/12/2015	102.3	7,116.00	7,373.00	5,288.00	248,040	6150	0
30	11/12/2015	102.5	7,108.00	7,341.00	5,484.00	250,060	6299	0
31	11/12/2015	100.4	7,272.00	7,455.00	4,410.00	249,160	6004	0
32	11/13/2015	101.3	7,391.00	7,549.00	5,085.00	248,375	5851	0
33	11/13/2015	101	7,268.00	7,395.00	4,687.00	250,175	5958	0
34	11/13/2015	101.4	7,340.00	7,865.00	5,179.00	250,820	6219	0
35	11/13/2015	100.9	7,493.00	7,711.00	5,356.00	250,800	6286	0
36	11/13/2015	99.50	7,980.00	8,552.00	5,143.00	248,680	6,971	0
37	11/13/2015	101.20	7,081.00	7,440.00	4,594.00	250,360	5,898	0
38	11/13/2015	100.90	7,473.00	7,858.00	4,856.00	252,920	5,758	0
39	11/13/2015	101.20	6,931.00	7,111.00	4,654.00	248,484	5,726	0
40	11/14/2015	101.2	6,907.00	7,098.00	4,560.00	254,684	5841	0
41	11/14/2015	102.3	6,993.00	7,257.00	5,495.00	251,212	6108	0
42	11/14/2015	101.6	6,950.00	7,250.00	5,394.00	252,980	6094	0
43	11/14/2015	102.1	7,062.00	7,515.00	5,100.00	254,000	6196	0
44	11/14/2015	100	7,892.00	8,232.00	4,534.00	251,040	7294	0
45	11/14/2015	93.6	8,145.00	8,906.00	4,482.00	249,860	5900	0

Class of Oil and Gas

FEB 10 2016

HOOVER

515679-47-017-06608-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	9/15/2015	14,182.64	14,184.00	10	MARCELLUS
1	11/6/2015	14,038.00	14,130.00	32	MARCELLUS
2	11/6/2015	13,892.00	14,010.00	40	MARCELLUS
3	11/6/2015	13,738.00	13,860.00	40	MARCELLUS
4	11/6/2015	13,588.00	13,709.00	40	MARCELLUS
5	11/7/2015	13,438.00	13,560.00	40	MARCELLUS
6	11/7/2015	13,288.00	13,410.00	40	MARCELLUS
7	11/7/2015	13,138.00	13,260.00	40	MARCELLUS
8	11/7/2015	12,988.00	13,110.00	40	MARCELLUS
9	11/7/2015	12,842.00	12,960.00	40	MARCELLUS
10	11/8/2015	12,688.00	12,810.00	40	MARCELLUS
11	11/8/2015	12,538.00	12,660.00	40	MARCELLUS
12	11/8/2015	12,388.00	12,510.00	40	MARCELLUS
13	11/8/2015	12,238.00	12,360.00	40	MARCELLUS
14	11/9/2015	12,088.00	12,210.00	40	MARCELLUS
15	11/9/2015	11,938.00	12,060.00	40	MARCELLUS
16	11/9/2015	11,788.00	11,910.00	40	MARCELLUS
17	11/9/2015	11,638.00	11,760.00	40	MARCELLUS
18	11/9/2015	11,488.00	11,610.00	40	MARCELLUS
19	11/9/2015	11,338.00	11,460.00	40	MARCELLUS
20	11/10/2015	11,188.00	11,310.00	40	MARCELLUS
21	11/10/2015	11,038.00	11,160.00	40	MARCELLUS
22	11/10/2015	10,888.00	11,010.00	40	MARCELLUS
23	11/10/2015	10,738.00	10,860.00	40	MARCELLUS
24	11/10/2015	10,588.00	10,710.00	32	MARCELLUS
25	11/11/2015	10,438.00	10,560.00	40	MARCELLUS
26	11/11/2015	10,288.00	10,410.00	40	MARCELLUS
27	11/11/2015	10,138.00	10,260.00	40	MARCELLUS
28	11/12/2015	9,988.00	10,110.00	40	MARCELLUS
29	11/12/2015	9,838.00	9,960.00	40	MARCELLUS
30	11/12/2015	9,688.00	9,810.00	40	MARCELLUS
31	11/12/2015	9,538.00	9,660.00	40	MARCELLUS
32	11/12/2015	9,388.00	9,510.00	40	MARCELLUS
33	11/13/2015	9,238.00	9,360.00	40	MARCELLUS
34	11/13/2015	9,088.00	9,210.00	40	MARCELLUS
35	11/13/2015	8,938.00	9,060.00	40	MARCELLUS
36	11/13/2015	8,788.00	8,910.00	40	MARCELLUS
37	11/13/2015	8,638.00	8,760.00	40	MARCELLUS
38	11/13/2015	8,488.00	8,610.00	40	MARCELLUS
39	11/13/2015	8,338.00	8,460.00	40	MARCELLUS
40	11/14/2015	8,188.00	8,310.00	40	MARCELLUS
41	11/14/2015	8,038.00	8,160.00	40	MARCELLUS
42	11/14/2015	7,890.00	8,010.00	40	MARCELLUS
43	11/14/2015	7,738.00	7,860.00	40	MARCELLUS
44	11/14/2015	7,588.00	7,710.00	40	MARCELLUS
45	11/14/2015	7,438.00	7,560.00	40	MARCELLUS

Office of Oil and Gas
New York State Environmental Conservation
Production

FEB 10 2016

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/5/2015
Job End Date:	11/14/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06608-00-00
Operator Name:	EQT Production
Well Name and Number:	515679
Longitude:	-80.79064300
Latitude:	39.19850800
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,615
Total Base Water Volume (gal):	12,066,432
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	Keane Group	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.53570	None
Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100.00000	10.09246	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05718	None
Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.02899	None
FFR760	Keane Group	Friction Reducer	Hydrotreated Light Distillate	64742-47-8	30.00000	0.01710	None
			Alkyl Alcohol	Proprietary	10.00000	0.00570	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00285	None
EC6330A	Keane Group	Scale Inhibitor	Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00124	None
PGS-214	Keane Group	Slurry	PGS-214	Proprietary	100.00000	0.00090	None
AI 600	Keane Group	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00019	None

			N, N-Dimethylformamide	68-12-2	20.00000	0.00010	None
			Tar bases, quinoline derivs, benzyl chloride-quaternized	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
			1-Decanol	112-30-1	5.00000	0.00002	None
			Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-.omega.- hydroxy-, branched	127087-87-0	5.00000	0.00002	None
			Triethyl Phosphate	78-40-0	2.50000	0.00001	None
			Isopropyl alcohol	67-63-0	2.50000	0.00001	None
			1-Octanol	111-87-5	2.50000	0.00001	None
LEB-10X	Keane Group	Gel Breaker					
			Ethylene Glycol	107-21-1	30.00000	0.00003	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%

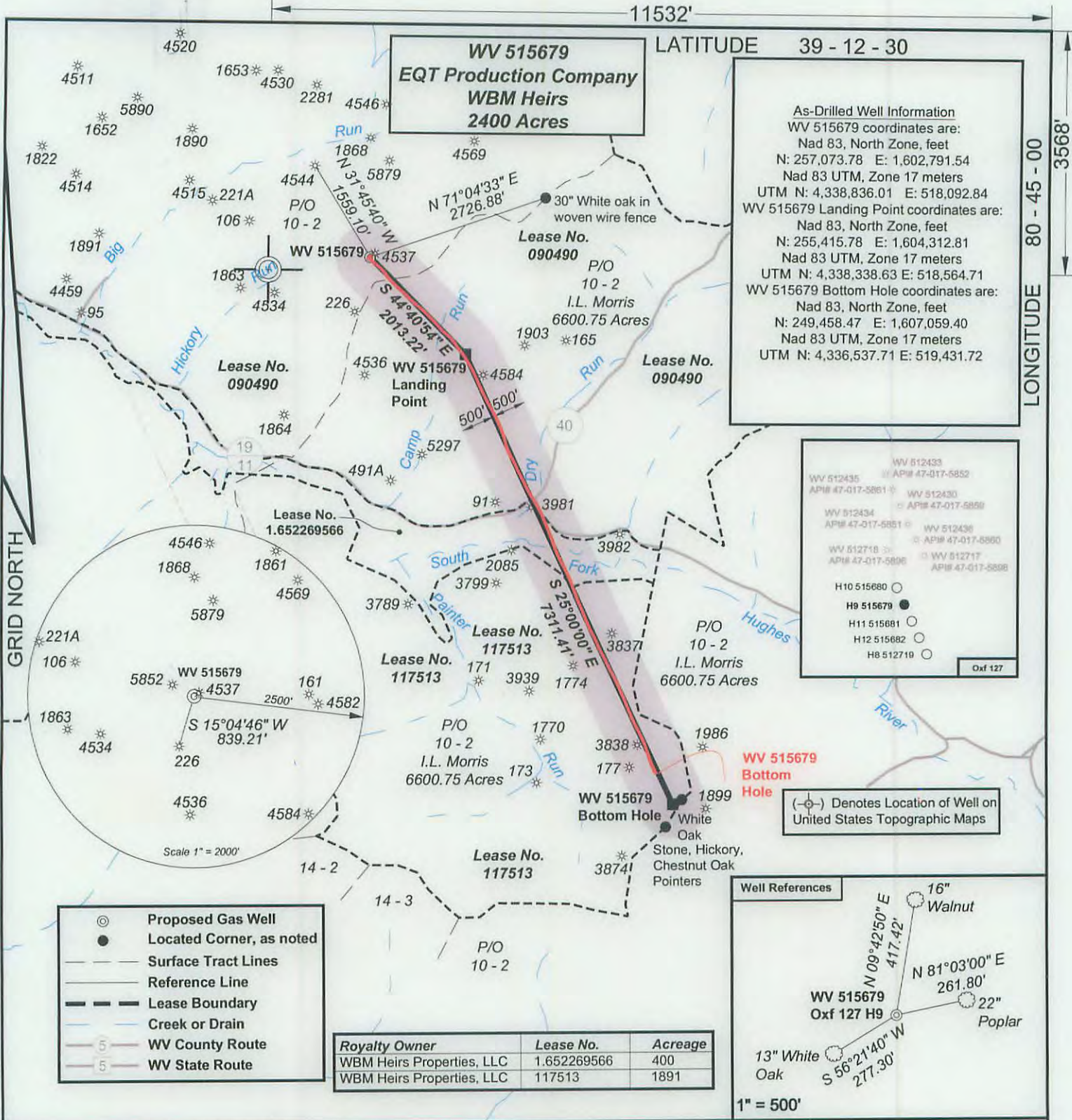
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

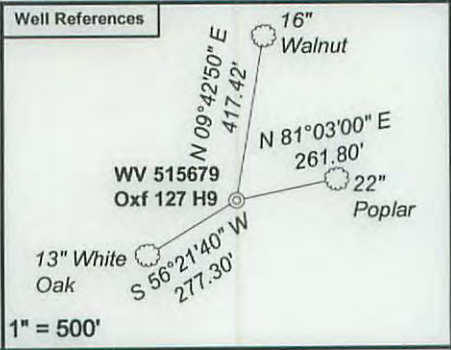
WV Dept. of Environmental Protection
 Office of Oil and Gas

FEB 19 2016

Received



Royalty Owner	Lease No.	Acreage
WBM Heirs Properties, LLC	1.652269566	400
WBM Heirs Properties, LLC	117513	1891



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 Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO: 150-30-SW-14
DRAWING NO: H9
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: January 21, 2016
OPERATOR'S WELL NO. 515679
API WELL NO. 47-017-06608
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Existing 1240 Proposed 1242.1 WATERSHED Hickory Run of South Fork of Hughes River QUADRANGLE: Oxford
DISTRICT: Southwest COUNTY: Doddridge
SURFACE OWNER: I. L. Morris ACREAGE: 6600.75
ROYALTY OWNER: WBM Heirs Properties, LLC LEASE NO: 090490 ACREAGE: 2400
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: TVD 6630 MD 16900

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