

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

PM

API 47-017-06412H6A County Doddridge District Southwest  
Quad Oxford 7.5' Pad Name OXFD11HS Field/Pool Name Oxford  
Farm Name MORRIS, I. L. Well Number OXFD11DHS  
Operator (as registered with the OOG) CNX Gas Company LLC  
Address P.O. Box 1248 City Jane Lew State WV Zip 26378

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top Hole Northing 4,335,755.00 m Easting 520,428.00 m  
Landing Point of Curve Northing 4,336,439.44 m Easting 520,464.08 m  
Bottom Hole Northing 4,338,050.06 m Easting 519,844.53 m

Elevation (ft) 1340' 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

Drilled 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)

Mineral Oil Based Mud, Bactericide, Polymers and Weighting Agents.

Date Permit Issued 02/12/2014 Date drilling commenced 07/27/2014 Date drilling ceased 10/10/2014  
Date completion activities began 04/19/2015 Date completion activities ceased 05/03/2015  
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 50', 620' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,730' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft None Reported Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by:

Gorr, Kevin

JK

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement Circulate (Y/N) * Provide details to the right *
Conductor	24"	20"	100'	N	J-55 94# / 100'	N/A	Y
Surface	17 1/2"	13 3/8"	1223'	N	J-55 54.5# / 1223'	N/A	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2818'	N	J-55 36# / 2818'	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4"	5 1/2"	14806'	N	P-110 20# / 14806'	N/A	N
Tubing	5 1/2"	2 3/8"	7213.5'	N	P-110 4.7# / 7213.5'	N/A	N
Packer Type and Depth Set		None					

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	127	15.2	1.18	150	Surface	24
Surface	Class A	1030	15.6	1.18	1224	Surface	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Class A	935	15.6	1.18	1101	Surface	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	Class A (Lead) / Class A (Tail)	767 / 1994	14.2 / 14.8	1.24 / 1.25	951 / 2493	1585.6'	8
Tubing	-	-	-	-	-	-	-

Drillers TD (ft) 6939' Loggers TD (ft) 6933'  
 Deepest formation penetrated: Marcellus Plug back to (ft) N/A  
 Plug back procedure: N/A

Kick Off Depth (ft) 2909'

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 - No centralizers used. Fresh Water - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface.  
Intermediate - Bow spring centralizers one on the first two joints and every fourth joint until inside surface casing. Production Rigid bow spring centralizer on first joint then every 2 casing joints (free floating) through the lateral and the curve. (Note: cementing the 12 1/4 casing completely in open hole lateral and curve.)

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS Plug and Perforation Shot Hole

WAS WELL COMPLETED OPEN HOLE  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USE  Yes  No TYPES OF TRACER(S) USED \_\_\_\_\_

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number Of Perforations	Formation(s)
1	4/19/2015	14747	14745	12	Marcellus
2	4/20/2015	14681	14540	40	Marcellus
3	4/20/2015	14508	14367	40	Marcellus
4	4/21/2015	14335	14194	40	Marcellus
5	4/21/2015	14162	14021	40	Marcellus
6	4/23/2015	13989	13852	40	Marcellus
7	4/23/2015	13816	13675	40	Marcellus
8	4/23/2015	13643	13502	40	Marcellus
9	4/24/2015	13470	13329	40	Marcellus
10	4/26/2015	13297	13156	40	Marcellus
11	4/26/2015	13124	12983	40	Marcellus
12	4/27/2015	12951	12810	40	Marcellus
13	4/27/2015	12778	12637	40	Marcellus
14	4/27/2015	12605	12464	40	Marcellus
15	4/28/2015	12432	12291	40	Marcellus
16	4/28/2015	12259	12118	40	Marcellus
17	4/28/2015	12086	11945	40	Marcellus
18	4/28/2015	11913	11773	40	Marcellus
19	4/29/2015	11741	11601	40	Marcellus
20	4/29/2015	11569	11429	40	Marcellus
21	4/29/2015	11397	11257	40	Marcellus
22	4/30/2015	11225	11085	40	Marcellus
23	4/30/2015	11053	10913	40	Marcellus
24	4/30/2015	10881	10741	40	Marcellus
25	4/30/2015	10709	10569	40	Marcellus
26	4/30/2015	10537	10397	40	Marcellus
27	5/1/2015	10365	10225	40	Marcellus
28	5/1/2015	10193	10053	40	Marcellus
29	5/1/2015	10021	9881	40	Marcellus
30	5/1/2015	9849	9709	40	Marcellus
31	5/1/2015	9677	9537	40	Marcellus
32	5/1/2015	9505	9365	40	Marcellus
33	5/2/2015	8955	8813	40	Marcellus
34	5/2/2015	8779	8637	40	Marcellus
35	5/2/2015	8603	8461	40	Marcellus
36	5/2/2015	8427	8285	40	Marcellus
37	5/2/2015	8251	8109	40	Marcellus
38	5/2/2015	8075	7933	40	Marcellus
39	5/2/2015	7899	7757	40	Marcellus

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Farm name MORRIS, I. L.

Well number OXFD11DHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number Of Perforations	Formation(s)
40	5/2/2015	7723	7581	40	Marcellus
41	5/3/2015	7547	7405	40	Marcellus
42	5/3/2015	7371	7229	40	Marcellus

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STIMULATION INFORMATION PER STAGE

Stage No.	Stimulations Date	Avg Pump Rate (BPM)	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen / other (gals)
1	4/19/2015	61.2	8187	8195	4416	100100	5103	3437
2	4/20/2015	80.2	8331	6597	5290	233850	6777	3577
3	4/20/2015	73.1	8068	7520	5687	234100	7712	3521
4	4/21/2015	74.4	8200	7052	5643	233550	6608	3486
5	4/21/2015	78.3	8201	7072	5625	234000	6004	3530
6	4/23/2015	68	8079	7226	5531	234000	5892	1905
7	4/23/2015	74	8250	6351	5699	234150	6047	1543
8	4/23/2015	76.1	8121	6366	5559	234250	6041	3493
9	4/24/2015	48.4	8840	6959	8449	213100	9480	3855
10	4/26/2015	75.4	8270	6644	5406	233050	6369	3593
11	4/26/2015	70	8013	6489	5516	233750	6121	3427
12	4/27/2015	75.9	8062	6780	5473	233550	6138	3408
13	4/27/2015	74.7	8294	6218	5785	233550	6598	3625
14	4/27/2015	78.4	8229	6583	5657	233750	6296	3430
15	4/28/2015	82.7	8498	6670	6472	234400	6219	3569
16	4/28/2015	83.2	8460	6748	6263	233100	6012	3562
17	4/28/2015	82.3	8251	6767	5590	233900	5854	3403
18	4/28/2015	88.9	8290	6779	5704	233650	6018	3405
19	4/29/2015	80.3	7956	6435	5727	233800	5938	3362
20	4/29/2015	85	8471	7234	5610	233750	6166	3470
21	4/29/2015	78.9	8135	6093	5777	233800	7732	3516
22	4/30/2015	79.8	8042	6202	5623	234700	5269	3312
23	4/30/2015	82.6	8232	6451	6555	233050	5249	3338
24	4/30/2015	75.5	7960	6716	6922	233850	5225	3324
25	4/30/2015	78.7	7984	6836	5603	233650	5107	3330
26	4/30/2015	78.9	7993	7076	5591	233850	5158	3326
27	5/1/2015	79.8	7933	6720	5863	233950	4972	3320
28	5/1/2015	78.5	7944	6498	6457	234550	5464	3349
29	5/1/2015	84.8	7886	6966	6300	233400	5143	3329
30	5/1/2015	86.2	7937	6498	6627	234400	5209	3338
31	5/1/2015	84	7940	6860	5518	234000	4981	3323
32	5/1/2015	76.9	7978	7161	5533	234100	4986	3354
33	5/2/2015	82.5	7795	7320	5335	233750	4948	3319
34	5/2/2015	82	7734	6799	5605	234450	4880	3314
35	5/2/2015	87.9	7905	6555	6491	233800	5046	3331
36	5/2/2015	85.2	7809	7033	6670	234150	5983	3393
37	5/2/2015	85.4	7796	6724	6390	233400	5897	3382
38	5/2/2015	84.1	7814	6724	5821	233250	5889	3397
39	5/2/2015	84.9	7635	6331	5515	235000	5738	3374

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STIMULATION INFORMATION PER STAGE

Stage No.	Stimulations Date	Avg Pump Rate (BPM)	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen / other (gals)
40	5/2/2015	85	7835	7340	5920	235250	5625	3380
41	5/3/2015	86	7669	6615	5537	232800	5605	3388
42	5/3/2015	84.5	7832	7678	6874	259990	5996	3396

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PRODUCING FORMATION(S) DEPTHS  
MARCELLUS 6899'- 6933' TVD 7210'- 7920' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
SHUT-IN PRESSURE Surface N/A psi Bottom Hole N/A psi DURATION OF TEST N/A hrs  
OPEN FLOW Gas N/A mcfpd Oil N/A bpd NGL N/A bpd Water N/A bpd GAS MEASURED BY  
 Estimated  Orifice  Pilot

LITHOLOGY / FORMATION	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY TYPE OF FLUID (FRESHWATER,BRINE,GAS,H2S, ETC)
					SEE ATTACHED

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI  
Address 207 Carlton Drive City Eighty Four State PA Zip 15330  
Logging Company Horizon  
Address 7136 South Yale, Suite 414 City Tulsa State OK Zip 74136-6378  
Cementing Company CalFrac  
Address 2001 Summit View Rd City Smithfield State PA Zip 15478  
Stimulating Company CalFrac  
Address 2001 Summit View Rd City Smithfield State PA Zip 15478

Please insert additional pages as applicable.

Completed by CNX Gas WY Operations Company, LLC - Drilling and Completions  
Signature Steve Spittle Title Steve Spittle - Completions Manager-Gas WV

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Telephone 304-884-2000  
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Attach copy of FRACFOCUS Registry

Submittal of Hydraulic Fracturing Chemical Disclosure Information

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LITHOLOGY / FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY TYPE OF FLUID (FRESHWATER,BRINE,GAS,H2S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	TVD	TVD	MD	MD	
FILL	0	100	0	100	
SS/GRAVEL/SHALE	100	200	100	200	
REDROCK/SS/SHALE	200	370	200	370	
SS/REDROCK/SHALE	370	500	370	500	
SHALE/REDROCK	500	850	500	850	
REDROCK/ SHALE	850	975	850	975	
SS/ REDROCK/SHALE	975	1030	975	1030	
SHALE/SILTSTONE/SS	1030	1105	1030	1105	
REDROCK/ SILTSTONE/SHALE	1105	1286	1105	1286	
REDSILT/SHALE	1286	1360	1286	1360	
SILTSTONE/ SHALE/ SS	1360	1395	1360	1395	
SS	1395	1425	1395	1425	
SHALE	1425	1520	1425	1520	
SS/SHALE	1520	1585	1520	1585	
SS	1585	1620	1585	1620	
SHALE/SS	1620	1830	1620	1830	
SS	1830	1950	1830	1950	
SHALE/SS	1950	2160	1950	2160	
LS	2160	2190	2160	2190	
SS/SHALE	2190	3000	2190	3000	
SHALE	3000	3330	3000	3350	
SHALE/ SILTSTONE	3330	3729	3350	3750	
SHALE	3729	3890	3750	3820	
SILTSTONE	3890	3935	3820	3950	
SHALE/ SILTSTONE	3935	4935	3950	5000	
SAND/ SHALE	4935	5925	5000	6026	
BURKETT	6828	6852	7042	7090	
TULLY	6852	6872	7090	7134	
HAMILTON	6872	6899	7134	7210	
UPPER MARCELLUS	6899	6905	7210	7231	
MIDDLE MARCELLUS	6905	6931	7231	7470	
CHERRY VALLEY	6931	6933	7470	7920	
LOWER MARCELLUS	6933		7920		

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/19/2015
Job End Date:	5/3/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06412-00-00
Operator Name:	CONSOL Energy Inc.
Well Name and Number:	OXFD 11 DHS
Longitude:	-80.76369440
Latitude:	39.17069440
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,937
Total Base Water Volume (gal):	10,217,445
Total Base Non Water Volume:	0



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## Hydraulic Fracturing Fluid Composition:

17-06412

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	Customer & CWS	Base Fluid & Mix Water	Water	7732-18-5	100.00000	89.28025	
Sand (Proppant), DWP-111, DWP-614, DWP-901, DWP-NE1	CWS	Propping Agent, Gel Slurry, Viscosifier, Breaker, Non-Emulsifier	Crystalline silica (Quartz)	14808-60-7	100.00000	10.10673	
			Hydrochloric acid	7647-01-0	35.00000	0.38001	
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.07597	
			Guar gum	9000-30-0	60.00000	0.06155	
			2-Propenoic acid, polymer with 2-propenamides, sodium salt	25987-30-8	40.00000	0.01922	
			Calcite	471-34-1	1.00000	0.01348	
			Illite	12173-60-3	1.00000	0.01009	
			Goethite	1310-14-1	0.10000	0.00566	
			Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00513	
			Methanol	67-56-1	15.00000	0.00483	
			Biotite	1302-27-8	0.10000	0.00438	



		Apatite	64476-38-6	0.10000	0.00438
		Isopropanol	67-63-0	40.00000	0.00419
		Dimethylcocoamine, bis (chloroethyl) ether, diquatary ammonium salt	68607-28-3	40.00000	0.00419
		Ilmenite	98072-94-7	0.10000	0.00374
		Poly(oxyethylene)nonylphenol ether	9016-45-9	5.00000	0.00240
		Sorbitan monooleate	1338-43-8	5.00000	0.00240
		Ammonium Persulfate	7727-54-0	100.00000	0.00213
		Modified thiourea polymer	68527-49-1	0.10000	0.00163
		Alkenes, C>10 a-	64743-02-8	0.10000	0.00163
		Fatty acids, tall-oil	61790-12-3	0.10000	0.00163
		Alcohols, C14-15, ethoxylated	68951-67-7	0.10000	0.00163
		Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00154
		Propargyl Alcohol	107-19-7	0.10000	0.00054
		Diallyldimethylammonium chloride	7398-69-8	5.00000	0.00052
		Formaldehyde	50-00-0	0.10000	0.00011
		Sodium chloride	7647-14-5	0.10000	0.00005

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)

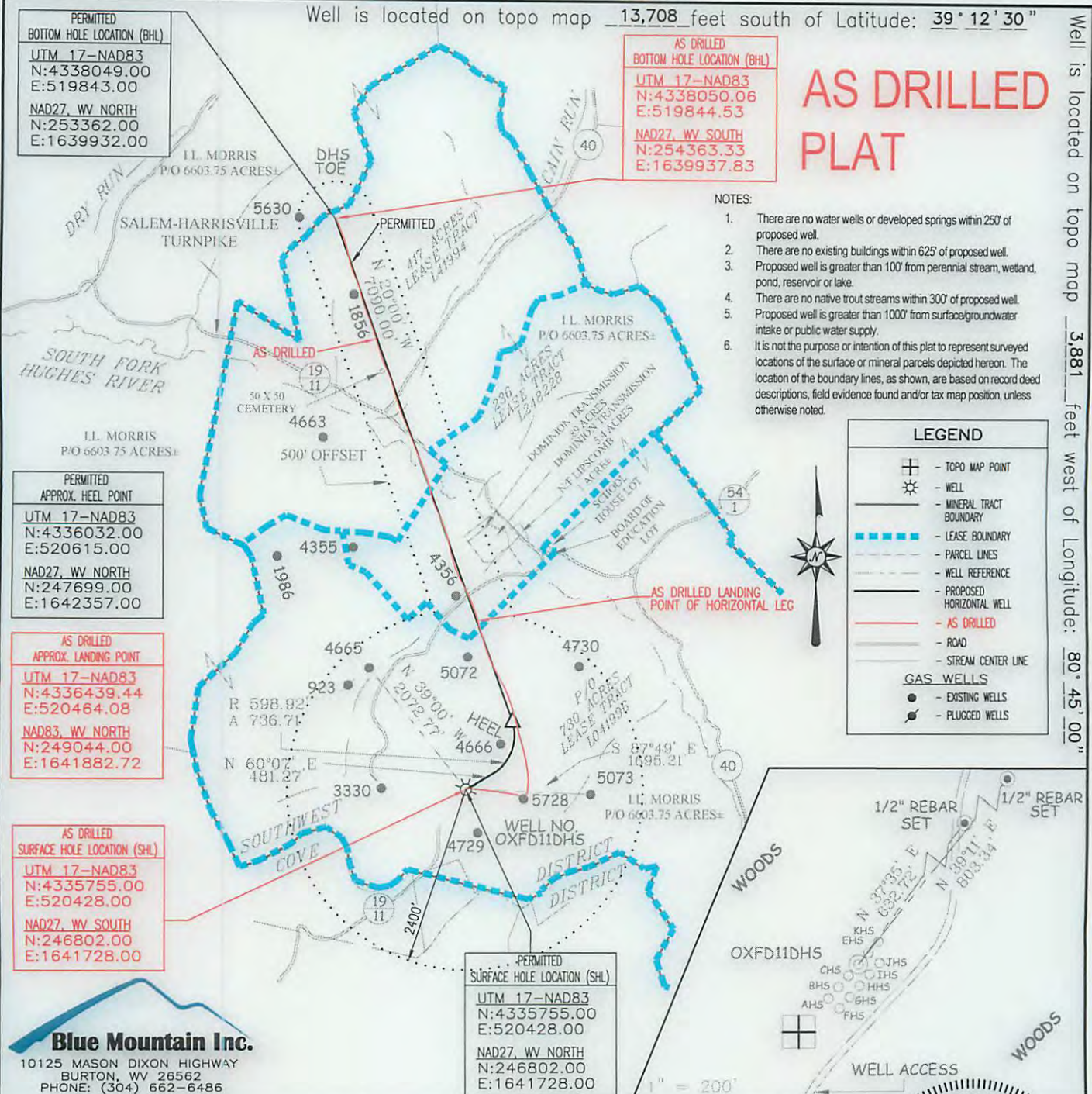
17-06412



Well is located on topo map 13,708 feet south of Latitude: 39° 12' 30"

Well is located on topo map 3,881 feet west of Longitude: 80° 45' 00"

# AS DRILLED PLAT



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
  2. There are no existing buildings within 625' of proposed well.
  3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
  4. There are no native trout streams within 300' of proposed well.
  5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
  6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

**LEGEND**

- ⊕ - TOPO MAP POINT
- ⊙ - WELL
- MINERAL TRACT BOUNDARY
- LEASE BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- AS DRILLED
- ROAD
- STREAM CENTER LINE

**GAS WELLS**

- - EXISTING WELLS
- ⊙ - PLUGGED WELLS

PERMITTED  
BOTTOM HOLE LOCATION (BHL)  
UTM 17-NAD83  
N:4338049.00  
E:519843.00  
NAD27, WV NORTH  
N:253362.00  
E:1639932.00

AS DRILLED  
BOTTOM HOLE LOCATION (BHL)  
UTM 17-NAD83  
N:4338050.06  
E:519844.53  
NAD27, WV SOUTH  
N:254363.33  
E:1639937.83

PERMITTED  
APPROX. HEEL POINT  
UTM 17-NAD83  
N:4336032.00  
E:520615.00  
NAD27, WV NORTH  
N:247699.00  
E:1642357.00

AS DRILLED  
APPROX. LANDING POINT  
UTM 17-NAD83  
N:4336439.44  
E:520464.08  
NAD83, WV NORTH  
N:249044.00  
E:1641882.72

AS DRILLED  
SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83  
N:4335755.00  
E:520428.00  
NAD27, WV SOUTH  
N:246802.00  
E:1641728.00

PERMITTED  
SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83  
N:4335755.00  
E:520428.00  
NAD27, WV NORTH  
N:246802.00  
E:1641728.00

**Blue Mountain Inc.**  
10125 MASON DIXON HIGHWAY  
BURTON, WV 26562  
PHONE: (304) 662-6486

FILE #: OXFD11DHS-AS DRILLED  
DRAWING #: OXFD11DHS-AS DRILLED  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.

Signed: *George D. Six*  
R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: MAY 27, 2015  
OPERATOR'S WELL #: OXFD11DHS-AS DRILLED  
API WELL #: 47 17 06412  
STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: SOUTH FORK HUGHES RIVER ELEVATION: 1,340'

COUNTY/DISTRICT: DODDRIDGE / SOUTHWEST QUADRANGLE: OXFORD 7.5'

SURFACE OWNER: I.L. MORRIS ACREAGE: 6603.75±

OIL & GAS ROYALTY OWNER: LINDSAY A. EDMONDSON, ETAL & STATE OF WEST VIRGINIA (SALEM HARRISVILLE TURNPIKE) ACREAGE: 730, 236, & 417±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,939'± TMD: 14,821'±

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT JOE BERRY, JR.  
Address P.O. BOX 1248 Address P.O. BOX 1248  
City JANE LEW State WV Zip Code 26378 City JANE LEW State WV Zip Code 26378

10/09/2015