

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

API 47-017-06631H6A County Doddridge District Southwest  
Quad New Milton 7.5' Pad Name OXFD13HS Field/Pool Name Oxford  
Farm Name LL. MORRIS Well Number OXFD13IHS  
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 4,335,539.9 m Easting 521,816.9 m  
Landing Point of Curve Northing 4,335,899.2 m Easting 522,112.2 m  
Bottom Hole Northing 4,336,590. m Easting 521,847.3 m

Elevation (ft) 1180' 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 06/01/2015 Date drilling commenced 05/03/2015 Date drilling ceased 07/14/2015  
Date completion activities began N/A (Completion has not begun.) Date completion activities ceased N/A  
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 290 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2175, 2510 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 294, 1650 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Office of Oil and Gas  
Reviewed by  
Gorzel Kevin  
MAR 20 2016  
WV Department of  
Environmental Protection  
AXWS  
06/17/16

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Farm name LL MORRIS

Well number OXFD13IHS

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	26"	20"	112.5'	N	J-55 94# / 112.5'	N/A	N (grout)
Surface	17 1/2"	13 3/8"	1097.9'	N	J-55 54.5# / 1097.9'	N/A	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2847'	N	J-55 36# / 2847'	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4" & 8 1/2"	5 1/2"	11919.3'	N	P-110 20# / 11919.3'	N/A	Y
Tubing	N/A (Tubing	has not been	run.)	-	-	-	-
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	675	15.60	1.22	820	0'	24
Surface	Class A	820	15.84	1.20	984	0'	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Class A	1130	15.60	1.18	1333.4	0'	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	Class A (Lead) / Class A (Tail)	983 / 1094	14.10 / 14.88	1.24 / 1.23	1218.92 / 1345.62	-	8
Tubing	N/A (Tubing has not	been run.)	-	-	-	-	-

Drillers TD (ft) 6990'

Loggers TD (ft) 7047'

Deepest formation penetrated: Marcellus

Plug back to (ft) N/A

Plug back procedure: N/A

Kick Off Depth (ft) 6990'

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. Coal - 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 5 1/2" casing completely in open hole lateral and curve.)

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS N/A (Well has not been completed.)

WAS WELL COMPLETED OPEN HOLE  Yes  No DETAILS N/A (Well has not been completed.)

WERE TRACERS USE  Yes  No TYPES OF TRACER(S) USED N/A (Well has not been completed.)

Office of Oil and Gas  
MAR 21 2016  
WV Department of Environmental Protection







API 47-017-06631H6A Farm name LL. MORRIS Well number OXFD13IHS

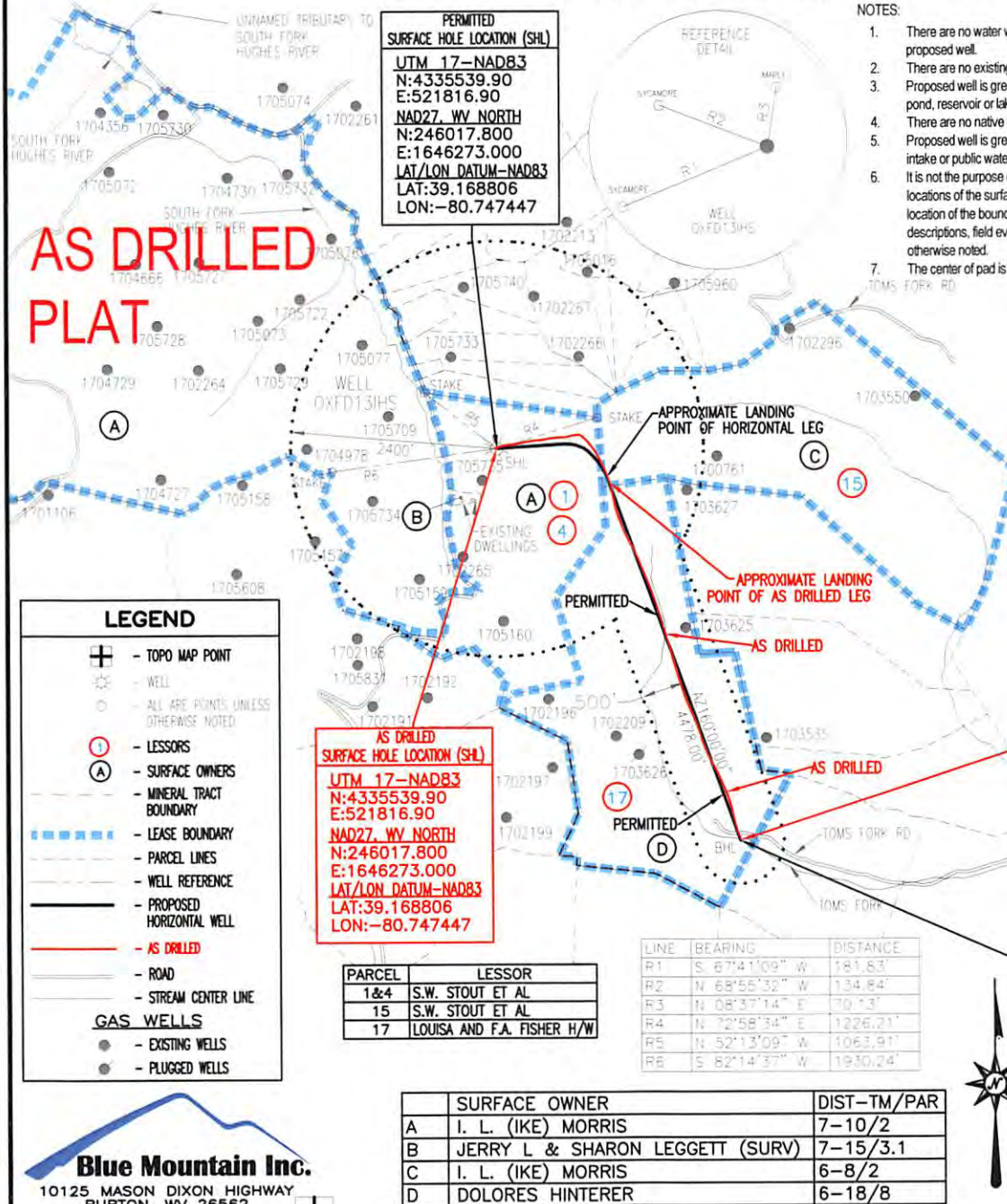
LITHOLOGY / FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY TYPE OF FLUID (FRESHWATER,BRINE,GAS,H2S, ETC)
	DEPTH IN FT TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
FILL	0	112			
CLAY	112	130			Red
SHALE	130	200			Gray
SAND/SHALE	200	250			Gray
SHALE/COAL	250	300			Dark Gray
SHALE	300	450			Gray
SHALE	450	500			Light Gray
SHALE	500	700			Gray
SHALE	700	800			Light Gray
SHALE	800	900			Gray
SHALE	900	1148			Light Gray
SHALE	1148	1250			Gray
SHALE	1250	1350			Light Gray
SHALE	1350	1450			Red
LIMESTONE	1450	1550			Red
REDROCK/LIMESTONE/COAL	1550	2000			
LITTLE LIME	2000	2041			Light Gray
BIG LIME	2050	2142			Light Gray/Brown
BIG INJUN	2184	2250			Light Gray
WEIR SAND	2309	2510			Gray
GORDON SAND	2794	2802			Med Gray
BENSON SAND	5054	5097			Med/Dark Gray
ALEXANDER SAND	5302	5405			Med/Dark Gray
RHINESTREET SHALE	5576	6668			Dark Gray
MIDDLESEX SHALE	6669	6795			Dark Gray
BURKET SHALE	6795	6841			Black
TULLY LIMESTONE	6841	6862			Light Gray
HAMILTON SHALE	6862	6894			Light/Med Gray
MARCELLUS SHALE	6894	6951			Black
ONONDAGA LIMESTONE	6951	7000			Light Brown
HUNTERSVILLE CHERT	7000	7047			Light/Med Gray
TD PILOT	7047				

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Well is located on topo map 14,428 feet south of Latitude: 39° 12' 30"

Well is located on topo map 11,140 feet west of Longitude: 80° 42' 30"



- 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.
  7. The center of pad is less than 625' from a dwelling.

**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- LESSORS
- SURFACE OWNERS
- MINERAL TRACT BOUNDARY
- LEASE BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- AS DRILLED
- ROAD
- STREAM CENTER LINE

**GAS WELLS**

- EXISTING WELLS
- PLUGGED WELLS

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

FILE #: OXFD13IHS-AS DRILLED  
 DRAWING #: OXFD13IHS-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: *[Signature]*  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

**GEORGE D. SIX**  
 LICENSED  
 No. 2000  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

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

DATE: DECEMBER 3, 2015  
 OPERATOR'S WELL #: OXFD13IHS-AS DRILLED  
 API WELL #: 47 17 06631  
 STATE COUNTY PERMIT

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

WATERSHED: SOUTH FORK HUGHES RIVER (UNDEFINED) ELEVATION: 1,152.4'±  
 COUNTY/DISTRICT: DODDRIDGE / SOUTHWEST QUADRANGLE: NEW MILTON, WV 7.5'  
 SURFACE OWNER: I. L. (IKE) MORRIS ACREAGE: 6603.75±  
 OIL & GAS ROYALTY OWNER: S.W. STOUT ET AL ACREAGE: 1294.150±

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: 6,990'± TMD: 11,936'±  
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT ANTHONY KENDZIORA  
 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



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**WR-35**  
**Rev. 8/23/13**

**FRAC FOCUS REGISTRY**

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Farm Name **LL. MORRIS**

Well Number **OXFD13IHS**

*Frac Focus Registry – Not Available – Formations have not been perforated or stimulated*