

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

API 47-017-06456H6A County Doddridge District Southwest
Quad New Milton 7.5' Pad Name OXFD13HS Field/Pool Name Oxford
Farm Name I. L. MORRIS Well Number OXFD13AHS
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 4,335,535. m Easting 521,787. m
Landing Point of Curve Northing 4,335,609. m Easting 521,366. m
Bottom Hole Northing 4,338,659. m Easting 520,198. 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

CBC
3/31/2016

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 04/15/2014 Date drilling commenced 06/02/2015 Date drilling ceased 06/21/2015
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

Reviewed by:
Gorr, Kevin

API 47-017-06456H6A Farm name L. L. MORRIS

Well number OXFD13AHS

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"	88.5'	N	J-55 94# / 88.5'	N/A	N (grout)
Surface	17 1/2"	13 3/8"	1088.5'	N	J-55 54.5# / 1088.5'	N/A	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2843.8'	N	J-55 36# / 2843.8'	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4" & 8 1/2"	5 1/2"	12586.5'	N	P-110 20# / 12586.5'	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	15.55	1.20	984	0'	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Class A	980	15.60	1.18	1156.4	0'	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	Class A (Lead) / Class A (Tail)	1012 / 1291	14.04 / 14.68	1.24 / 1.23	254.88 / 18951.8	-	8
Tubing	N/A (Tubing has not	been run.)	-	-	-	-	-

Drillers TD (ft) 6874'

Loggers TD (ft) 7047'

Deepest formation penetrated: Hamilton Shale

Plug back to (ft) N/A

Plug back procedure: N/A

Kick Off Depth (ft) 6874'

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.)

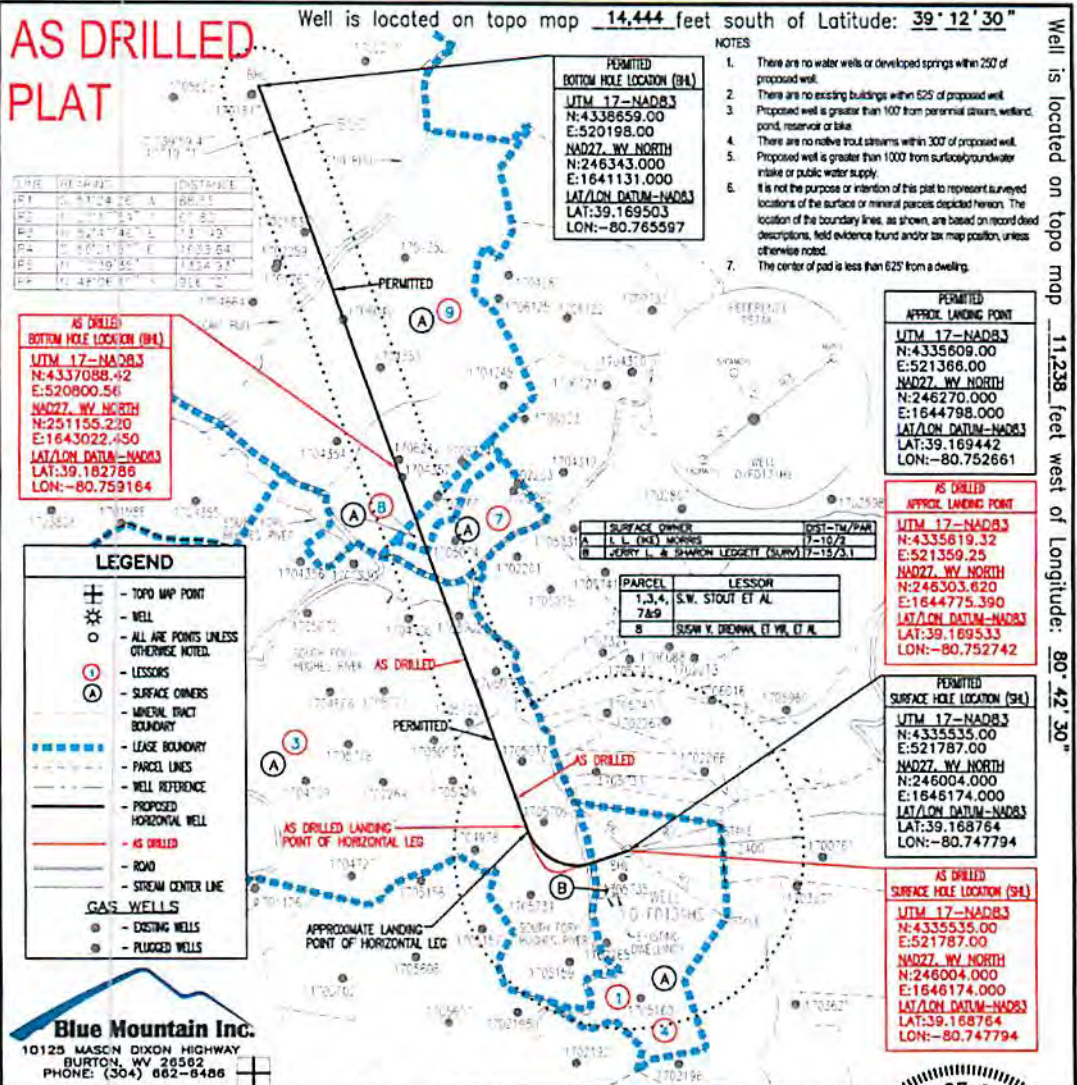
WERE TRACERS USE Yes No TYPES OF TRACER(S) USED N/A (Well has not been completed.)

API 47-017-06456H6A

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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	50			
SAND/SHALE	50	100			
SHALE	100	150			
SAND/SHALE	150	250			
REDROCK/COAL	250	300			
SHALE/REDROCK	300	350			
SHALE	350	400			
SAND/SHALE	400	450			
SHALE	450	500			
REDROCK/SHALE	500	600			
SHALE/SAND	600	650			
SAND	650	750			
SHALE	750	850			
SAND	850	950			
SHALE/REDROCK	950	1000			
REDROCK	1000	1050			
SHALE	1050	1100			
SAND	1100	1200			
SHALE	1200	1300			
SAND	1300	1500			
SHALE	1500	1600			
SAND/COAL	1600	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				



FILE #: OXFD13AHS-AS DRILLED
 DRAWING #: OXFD13AHS-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: *Anthony D. Kendziora*
 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 5TH STREET
 CHARLESTON, WV 25304

DATE: DECEMBER 3, 2015
 OPERATOR'S WELL #: OXFD13AHS-AS DRILLED
 API WELL #: 47 17 06456
 STATE COUNTY PERMIT

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

WATERSHED: SOUTH FORK HUGHES RIVER ELEVATION: 1,180'
 COUNTY/DISTRICT: DODDRIDGE / SOUTHWEST QUADRANGLE: NEW MILTON 7.5'
 SURFACE OWNER: L.L. MORRIS ACREAGE: 6603.75±
 OIL & GAS ROYALTY OWNER: S.W. STOUT ET AL ACREAGE: 1427±, 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: 6,764± TMD: 12,613±
 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

WR-35
Rev. 8/23/13

FRAC FOCUS REGISTRY

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