

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

API 47-017-06577H6A County Doddridge District Southwest
Quad New Milton 7.5' Pad Name OXFD13HS Field/Pool Name Oxford
Farm Name I. L. MORRIS Well Number OXFD13DHS
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 4,335,537.9 m Easting 521,804.9 m
Landing Point of Curve Northing 4,335,861. m Easting 522,003.8 m
Bottom Hole Northing 4,336,454.3 m Easting 521,776.6 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 11/12/2014 Date drilling commenced 03/09/2015 Date drilling ceased 08/07/2015
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

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Freshwater depth(s) ft 290 Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 2175, 2510 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 195, 294, 1650 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

Gorr, Kevin

AX WS 03/31/16

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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	26"	20"	84.5'	N	J-55 94# / 84.5'	N/A	N (grout)
Surface	17 1/2"	13 3/8"	1088'	N	J-55 54.5# / 1088'	N/A	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2841'	N	J-55 36# / 2841'	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4" & 8 1/2"	5 1/2"	13403.5'	N	P-110 20# / 13403.5'	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	836	15.60	1.20	1003.2	0'	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Class A	917	15.60	1.20	1100.4	0'	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	Class A (Lead) / Class A (Tail)	969 / 1433	14.23 / 14.81	1.24 / 1.23	1201.56 / 1762.59	-	8
Tubing	N/A (Tubing has not	been run.)	-	-	-	-	-

Drillers TD (ft) 6948' Loggers TD (ft) 7047'
 Deepest formation penetrated: Marcellus Plug back to (ft) N/A
 Plug back procedure: N/A

Kick Off Depth (ft) 6948'

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

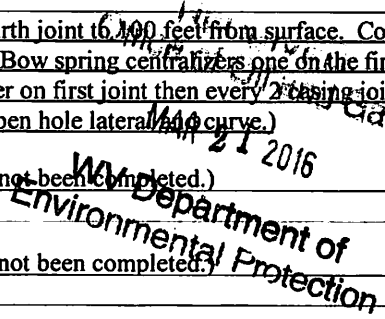
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

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 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/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.)



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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number Of Perforations	Formation(s)
			Well		
			has not been		
			completed.		
			Formations		
			have not been		
			perforated.		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation 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)
				Well				
				has not been				
				completed.				
				No				
				stimulation				
				has occurred.				

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Please insert additional pages as applicable.

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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	105			
WHITE SHALE	105	195			
COAL	195	225			
SAND/LIGHT SHALE/COAL	225	475			
SAND/SHALE/REDROCK	475	600			
SAND/REDROCK	600	690			
SAND	690	800			
WHITE SHALE	800	950			
SHALE/SAND	950	1100			
SHALE	1100	1600			
SHALE/SAND/COAL	1600	1883			
SHALE/LITTLE LIME	1883	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 - Crude Oil @ 2370
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 14,403 feet south of Latitude: 39° 12' 30"

Well is located on topo map 11,129 feet west of Longitude: 80° 42' 30"

	SURFACE OWNER	DIST-TM/PAR
A	I. L. (IKE) MORRIS	7-10/2
B	JERRY L. & SHARON LEGGETT (SURV)	7-15/3.1
C	BUNTING TYLER GARRETT C/O LENORA BUNTING	7-15/1
D	LINNEY MCKINNEY	7-15/1.6
E	CHARLES ALAN SCHNEIDER	6-18/1.6
F	JEFFREY LYNN & LINNEY ELAINE MCKINNEY (SURV)	7-15/1.1
G	MARIE E. HYDE & RICHARD E. BAKER (SURV)	7-15/1.5
H	KEVIN L. & TERESA A. MULLEN (SURV)	7-15/1.3
J	KEVIN L. & TERESA A. MULLEN (SURV)	7-15/1.2
K	ROBERT K. SWIGER	7-15/1.4
L	DEBRA KAY HUDAK	6-14/17
M	DEBRA KAY HUDAK	7-11/6
N	KEY OIL COMPANY	7-11/1

AS DRILLED PLAT

AS DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4337477.07
 E:521358.76
 NAD27, WV NORTH
 N:252400.020
 E:1644875.500
 LAT/LON DATUM-NAD83
 LAT:39.186275
 LON:-80.752689

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4337485.63
 E:521381.81
 NAD27, WV NORTH
 N:252426.862
 E:1644951.633
 LAT/LON DATUM-NAD83
 LAT:39.186350
 LON:-80.752422

NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- The center of pad is less than 625' from a dwelling.
- Proposed well pad is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
- 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.

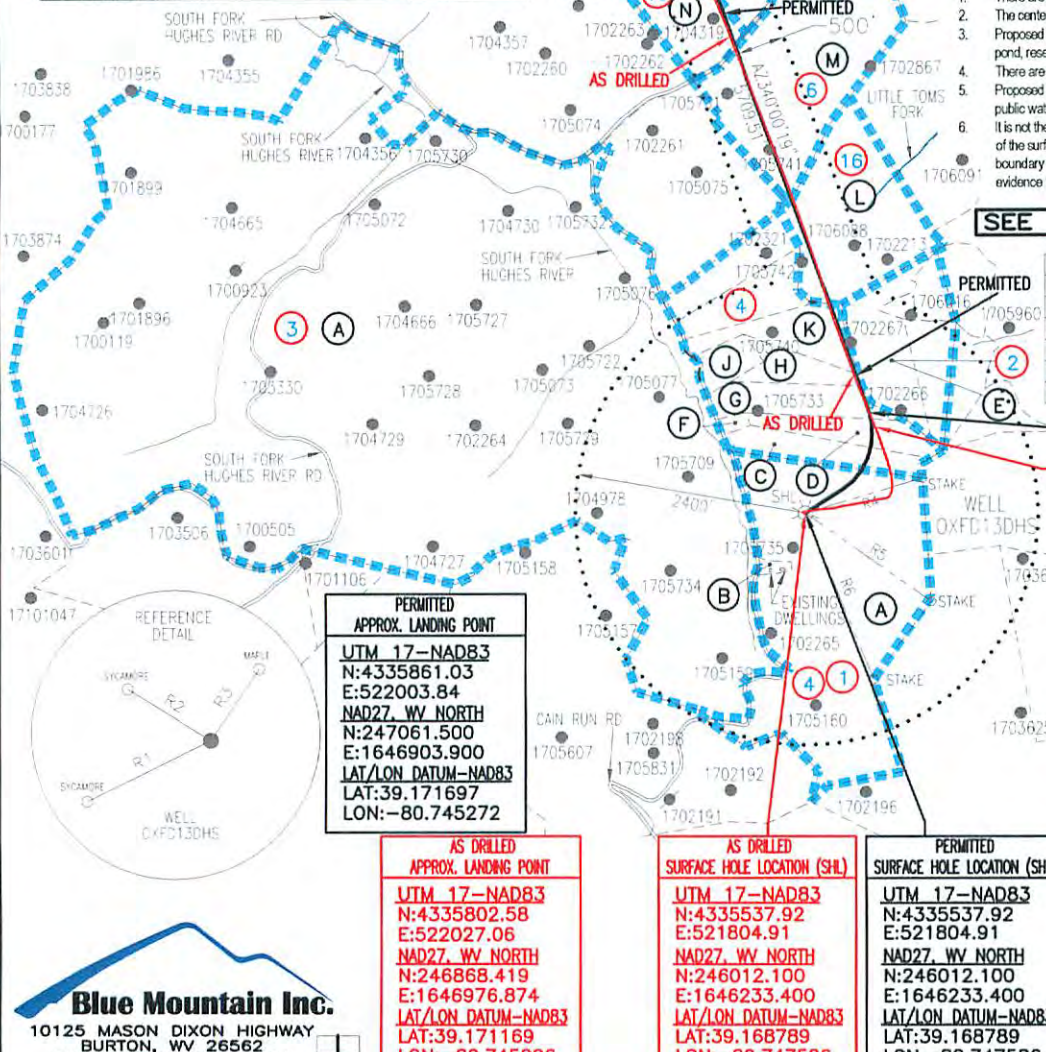
SEE PAGE 2 FOR LESSORS

LINE	BEARING	DISTANCE
R1	S 63°46'52" W	143.36'
R2	N 57°51'10" W	101.84'
R3	N 33°44'11" E	90.23'
R4	N 73°15'19" E	1265.69'
R5	S 54°56'10" E	1589.16'
R6	S 22°20'13" E	1856.01'

APPROXIMATE LANDING POINT OF HORIZONTAL LEG
 APPROXIMATE LANDING POINT OF AS DRILLED LEG

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



PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4335861.03
 E:522003.84
 NAD27, WV NORTH
 N:247061.500
 E:1646903.900
 LAT/LON DATUM-NAD83
 LAT:39.171697
 LON:-80.745272

AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4335802.58
 E:522027.06
 NAD27, WV NORTH
 N:246868.419
 E:1646976.874
 LAT/LON DATUM-NAD83
 LAT:39.171169
 LON:-80.745006

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4335537.92
 E:521804.91
 NAD27, WV NORTH
 N:246012.100
 E:1646233.400
 LAT/LON DATUM-NAD83
 LAT:39.168789
 LON:-80.747586

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

FILE #: OXFD13DHS-AS DRILLED
 DRAWING #: OXFD13DHS-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* WV Department of Environmental Protection
 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: DECEMBER 3, 2015

OPERATOR'S WELL #: OXFD13DHS-AS DRILLED

API WELL #: 47 17 06577
 STATE COUNTY PERMIT

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

WATERSHED: SOUTH FORK HUGHES RIVER 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: 1078.385±

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: 6,790± TMD: 13,412±

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

OXFD13DHS

PAGE 2 OF 2

AS DRILLED PLAT

PARCEL	LESSOR
1,4,3 &16	S.W. STOUT, ET AL
2	CLARENCE E. SIGLEY, TRUSTEE
6	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF S.A. SMITH & C. BURKE MORRIS, TRUST
	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF THE WILL E. MORRIS, TRUST
	DORIS J. FLINT
	STEVEN GERARD HORAK
	BETTY BOOTH RADER
	RICHARD E. RADER
	WAYNE E. RADER ET UX
	PAMELA K. CORNELL
	DOUGLAS SMITH, INDIVIDUALLY & AS CO-EXECUTOR OF THE ESTATE OF FREDA WYLENE SMITH, DECEASED, & PATRICIA SMITH, HIS WIFE
	DOUGLAS SMITH, INDIVIDUALLY & AS CO-EXECUTOR OF THE ESTATE OF FREDA WYLENE SMITH, DECEASED & JO BETH SMITH, HIS WIFE
	PAUL MANLEY
	DENISE HOWARD, ET VIR
	WILLIAM GREENLEAF, ET UX
	ED HUDAK
	PAULINE SUMMERS
	GENEVIEVE SUMMERS
	MARY LOU GEISLER, AIF FOR KATHLEEN SUMMERS
	HUBERT C. GAINER
	M.L. HARDING
	PEGGY YOUNG BATTEN
	CLARENCE F. GAINER
	JACQUELINE GAINER
	HERBERT A. DARNELL
	WILLIAM GAINER
	ROBERT GAINER
	LUCILLE BOLTE
	STEVE BOLTE
KATHRYN SUMMERS	
CECIL ROBINSON	
10,11& 12	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF S.A. SMITH & C. BURKE MORRIS, TRUST
	J.P. MORGAN CHASE BANK, N.A, TRUSTEE OF THE WILL E. MORRIS, TRUST
	CHAD W. JOHNSON
	JAMES D. POWELL II
	CYNTHIA FAYE POWELL
	LINDA FREDERICK
	LESLIE FREDERICK
	EMMANUEL LUTHERAN CHURCH
	VADA BARNETT
	JO ANN B. WATERS, ET VIR
	UDELLA MAE PROUDFOOT BARNETT
	LESLIE FREDERICK, AIF FOR BETTY J. BARNETT
	GENEVIEVE STOUT SUMMERS
	KATHLEEN C. SUMMERS, BY MARY LOU DEISLER HER AIF
	KATHRYN SUMMERS
	PAULINE SUMMERS

PERMITTED SURFACE HOLE LOCATION (SHL)	PERMITTED BOTTOM HOLE LOCATION (BHL)	PERMITTED APPROX. LANDING POINT
<u>UTM 17-NAD83</u> N:4335537.92 E:521804.91 <u>NAD27, WV NORTH</u> N:246012.100 E:1646233.400 LAT/LON DATUM-NAD83 LAT:39.168789 LON:-80.747586	<u>UTM 17-NAD83</u> N:4337485.63 E:521381.81 <u>NAD27, WV NORTH</u> N:252426.862 E:1644951.633 LAT/LON DATUM-NAD83 LAT:39.186350 LON:-80.752422	<u>UTM 17-NAD83</u> N:4335861.03 E:522003.84 <u>NAD27, WV NORTH</u> N:247061.500 E:1646903.900 LAT/LON DATUM-NAD83 LAT:39.171697 LON:-80.745272

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DECEMBER 3, 2015

WR-35
Rev. 8/23/13

FRAC FOCUS REGISTRY

API 47-017- 06577H6A

Farm Name I.L. MORRIS

Well Number OXFD13DHS

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

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