west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

January 07, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706632, issued to CNX GAS COMPANY LLC , is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: OXFD13FHS
Farm Name: MORRIS, I.L.
API Well Number: 47-1706632
Permit Type: Horizontal 6A Well
Date Issued: 01/07/2015

API Number: 17-06632

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations,* 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

4701706632

WW-6B
(9/13)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator:	CNX Gas Company LLC	494458046	Doddridge	Southwest	New Milton
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: OXFD13FHS Well Pad Name: OXFD13HS

3) Farm Name/Surface Owner: I.L. Morris Public Road Access: Co. Rt. 40

4) Elevation, current ground: 1178' Elevation, proposed post-construction: 1152'

5) Well Type (a) Gas ■ Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow ■ Deep _____
Horizontal ■

6) Existing Pad: Yes or No NO

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target - Burkett, Depth - 6615', Thickness - 30', Pressure - 2500#

8) Proposed Total Vertical Depth: 6830'

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 12992'

11) Proposed Horizontal Leg Length: 4969'

12) Approximate Fresh Water Strata Depths: 50', 600'

13) Method to Determine Fresh Water Depths: Offset Well

14) Approximate Saltwater Depths: 1250', 1955'

15) Approximate Coal Seam Depths: 600'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☑

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WW-6B
(9/13)

18) **CASING AND TUBING PROGRAM**

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	N	L.S.	81.3#	100'	100'	Grout to surface w/ Class A type cement
Fresh Water	13 3/8"	N	J-55	54.5#	1050'	1050'	CTS w/ Class A Type Cement
Coal							
Intermediate	9 5/8"	N	J-55	36#	2700'	2700'	CTS w/ Class A Type Cement
Production	5 1/2"	N	P-110	20#	12992'	12992'	2200 cu. ft. w/ 50/50 POZ Lead & Class A
Tubing	2 3/8"	N	J-55	4.7#	7450'	7450'	
Liners							

DCW
9-12-2014

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal						
Intermediate	9 5/8"	12 3/8"	0.352	3520	Class A Type	1.18
Production	5 1/2"	8 3/4" & 8 1/2"	0.361	14360	Class A Type	1.26
Tubing	2 3/8"	5 1/2" Csg	0.190	7700	.....	.....
Liners						

PACKERS

Kind:	None			
Sizes:	None			
Depths Set:	None			

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4701706632

CONSOL ENERGY

1000 CONSOL Energy Drive
Canonsburg, PA 15317

phone: (724) 485-3252
e-mail: JoshDalton@consolenergy.com
web: www.consolenergy.com

JOSH DALTON
Drilling Design Engineer

Mr. Douglas Newlon
WV Department of Environmental Protection
Office of Oil and Gas
601 57th Street – SE
Charleston, WV 25304

September, 2014

Re: Oxford-13 Extended Surface Casing

Dear Mr. Newlon:

This letter is intended to justify the extension of our surface casing on Oxford (OXFD-13) pad (7 wells). The 13-3/8" surface casing will be exceeding the 150' beyond the deepest known fresh water zone located near 600'.
The closest offset wells are on the OXFD-11 pad (4,200' Southwest) and were surface drilled in the month of July 2014. There was 80' of 20" conductor set and cemented to surface. There was initially 740' of 13-3/8" surface casing set and cemented to surface. Lastly the 9-5/8" intermediate casing was set at 2645' and cemented to surface. The first two of the six wells on OXFD-11 pad resulted in drill string retrieval operations while drilling the 12.25" intermediate section. Severe wellbore instability was experienced around the 900'-1000' depth. Hydrating red clays, or "Swelling Red Rock", was deemed the root cause of the stuck drill string in both cases. After DEP permission, the remaining four wells on the OXFD-11 pad had the 13-3/8" surface casing set between 1200' and 1250', which is 58' to 108' short of the pad elevation. This extension of the surface casing remediated the hydrating clay issue and no further issues were experienced on the pad.
It is our desire to continue with this plan of action by setting 13-3/8" surface casing 50' to 100' short of the pad elevation to proactively eliminate the formation issues.

If you have any questions concerning this request, please contact me at 724-485-3252 or via e-mail at JoshDalton@consolenergy.com.

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Sincerely,

Josh Dalton

4701706632

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(9/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate new horizontal Marcellus well. Well to be drilled to a TMD of 12992'. Well to be drilled to a TVD of 6830', formation at TVD - Onondaga Group. The well bore will not be drilled any deeper than 100' into the Onondaga Group, nor will there be any perforation, stimulation, or production of any formations below the target formation. Well will be plugged back to an approximate depth of 6000' (approximate due to exact kick off point being unknown). Plugging back will be done using the displacement method and Class A Type cement. A solid cement plug will be set from TD to KOP. If an unexpected void is encountered, plan will be to set casing at a minimum of 30' past void and cement to surface with approved Class A type cement.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. Max Pressure - 9500 psi. Max Rate - 100 bbl/min.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.4 Acres

22) Area to be disturbed for well pad only, less access road (acres): 10.6 Acres

23) Describe centralizer placement for each casing string:

Conductor - No centralizers used. Fresh Water & 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 forth 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.)

24) Describe all cement additives associated with each cement type:

Conductor - 2% CaCl2. Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production - 2.6% Cement extender, 0.7% Fluid loss additive, 0.5% High Temperature Retarder, 0.2% Friction Reducer

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25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing ran in air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Fresh Water/Coal - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing shoe will be cleared with fresh water and gel prior to cementing. Intermediate - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing shoe will be cleared with fresh water and gel prior to cementing. (Note: Drilling soap may be utilized if the hole gets wet/damp during the drilling of all air holes with the exception of the conductor). Production - The hole will be drilled with synthetic oil base mud and once at TD the hole is circulated at a drilling pump rate until the hole is clean. Once casing is ran the hole is circulated for a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

Cement Additives

- Conductor – 2% CaCl2
- Freshwater/Coal – 2% CaCl2
- Intermediate - 2% CaCl2
- Production -
  - 2.6% Cement extender
  - 0.7% Fluid Loss Additive
  - 0.5% High Temperature Retarder
  - 0.2% Friction Reducer

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WW-9
(9/13)

API Number 47 - 017 - 06632
Operator's Well No. OXFD13FHS

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC OP Code 494458046

Watershed (HUC 10) South Fork Hughes River Quadrangle New Milton

Elevation 1,180.0' County Doddridge District Southwest

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☑ No ☐

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes ☐ No ☑ If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application
- ☐ Underground Injection (UIC Permit Number _____)
- ☐ Reuse (at API Number _____)
- ■ Off Site Disposal (Supply form WW-9 for disposal location)
- ■ Other (Explain Recycle on other well on same pad or adjacent pads

Will closed loop system be used? If so, describe: Yes, Cuttings/fluids separated with the use of a centrifuge/shaker, liquids recycled and solids disposed of at an appropriate landfill

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Synthetic

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bactericide, Polymers, and Weighting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowfill, Northwestern Landfill, Max Environmental Yukon Landfill & Bulger Landfill

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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Company Official Signature Kelly Eddy

Company Official (Typed Name) Kelly Eddy

DEC 29 2014

Company Official Title Permitting Supervisor

WV Department of
Environmental Protection

Subscribed and sworn before me this 19TH day of DEC, 20 14

Carolinda Flanagan Notary Public

My commission expires 09/15/2021

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 603
Lumberport WV 26386
My Commission Expires September 15, 2021

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Form WW-9

Operator's Well No. OXFD13FHS

CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 16.4 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas Newlon

Comments: Pressed & Mulch install & Maintain ESS to WV Dep regulations

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Title: O.I & Gas Inspector Date: 9-12-2014

Field Reviewed? (✓) Yes ( ) No

AG. 2 OF 3

4701706632

CONSOL ENERGY

Safety Plan for Well # OXFD13FHS

CNX Gas Company LLC

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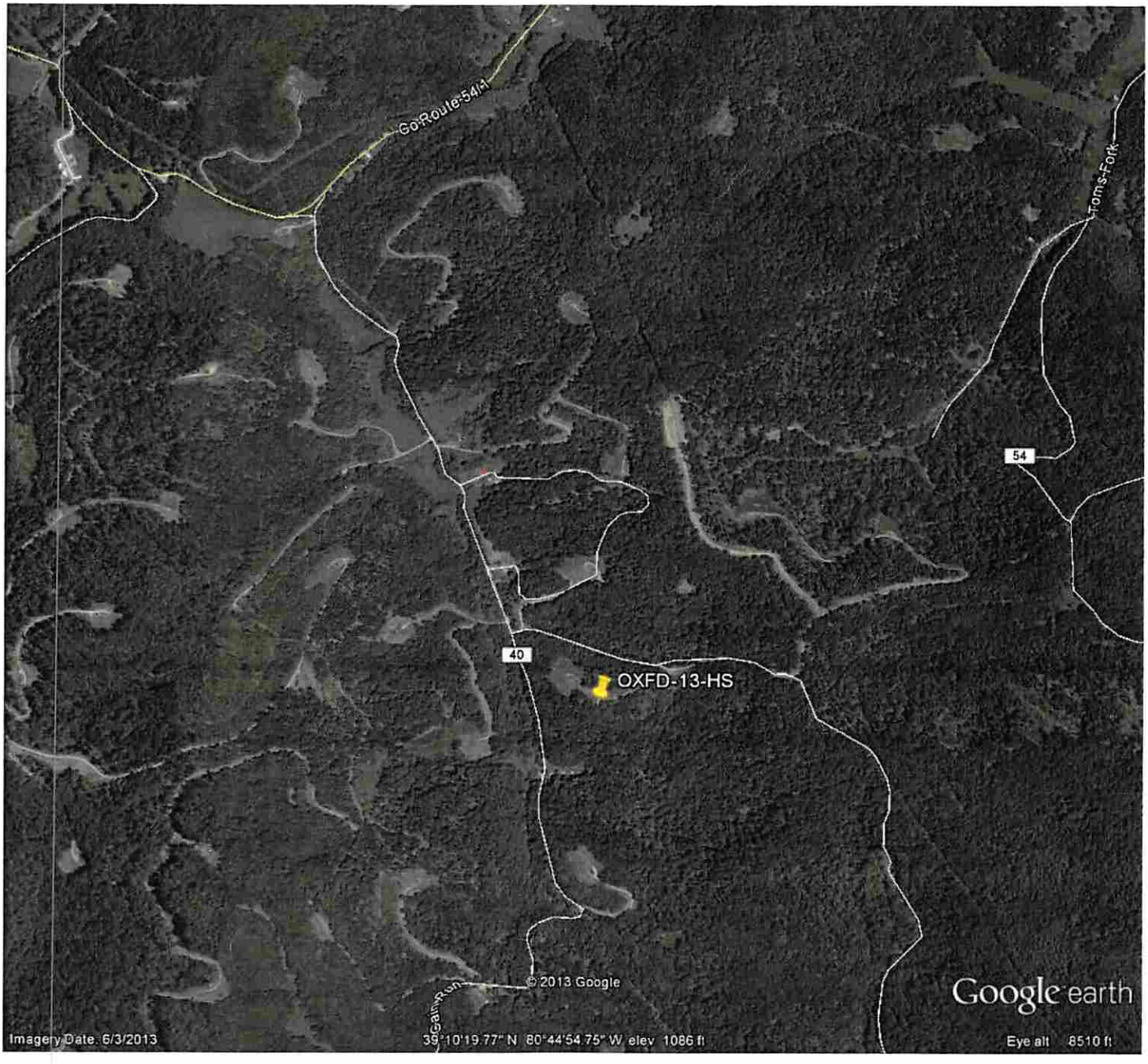
DCW
9-12-2014



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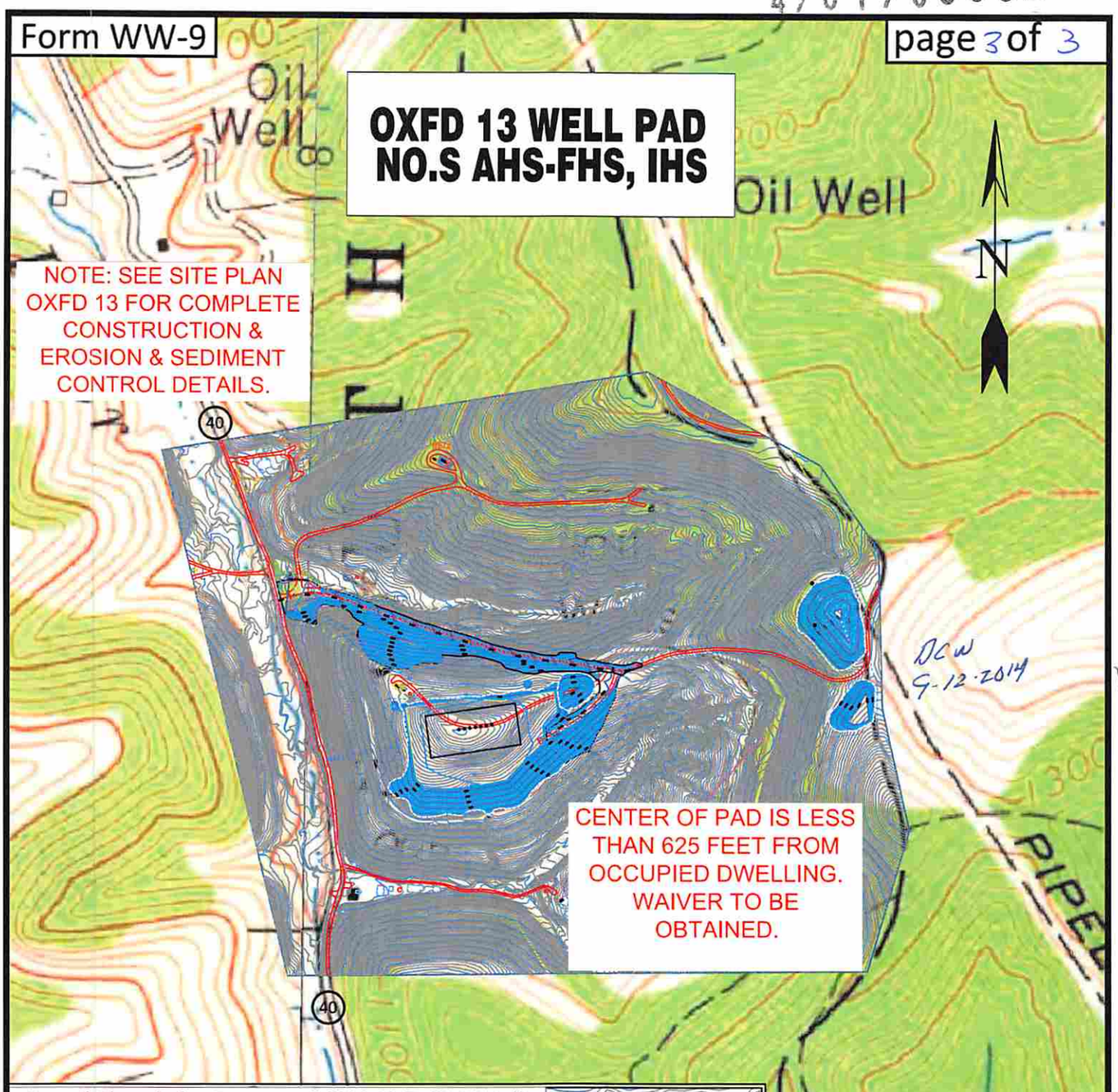
Form WW-9

OXFD 13 WELL PAD NO.S AHS-FHS, IHS

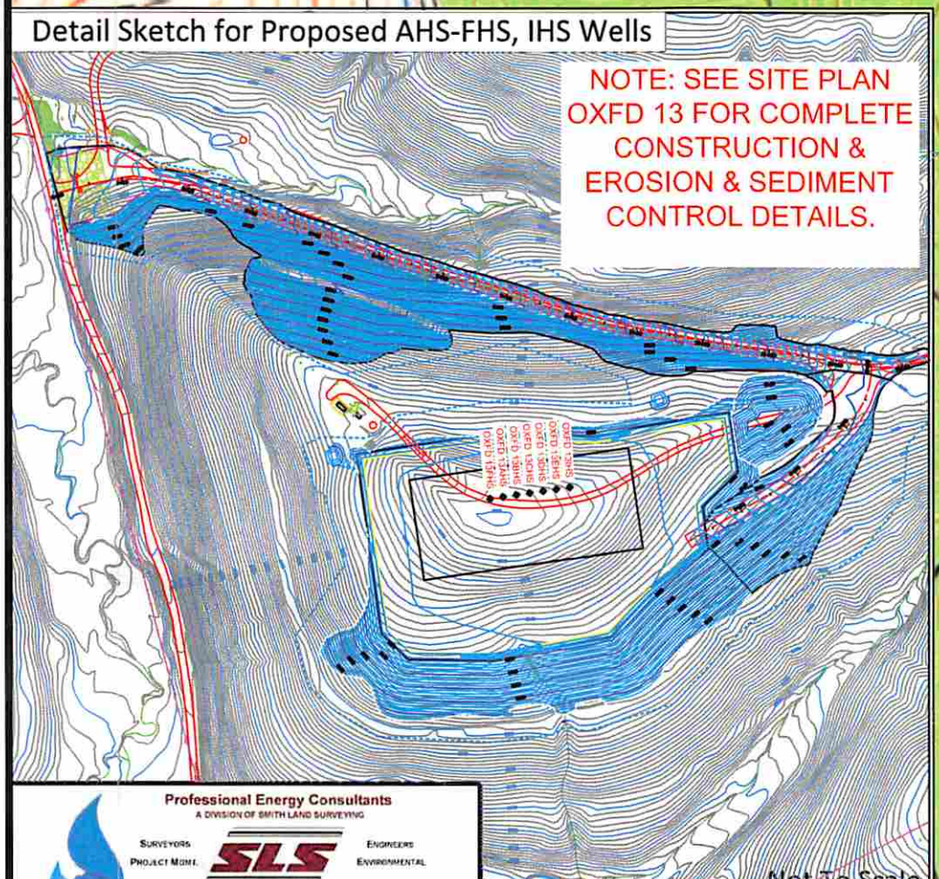


NOTE: SEE SITE PLAN OXFD 13 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

CENTER OF PAD IS LESS THAN 625 FEET FROM OCCUPIED DWELLING. WAIVER TO BE OBTAINED.

DCW 9-12-2014

Detail Sketch for Proposed AHS-FHS, IHS Wells



NOTE: SEE SITE PLAN OXFD 13 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

Not To Scale

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SCALE: 1"=500'

0' 500' 1000'

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING
SURVEYORS PROJECT MGMT. SLS ENGINEERS ENVIRONMENTAL
P.O. Box 156 Glenville, WV 26351 (304) 462-5634
56065 Dillee Bottom Road Shadyside, OH 43947 (740) 871-9911
HONESTY, INTEGRITY, QUALITY

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.G.M.	7982B	09-11-14	7982BREC-AHSR.dwg

TOPO SECTIONS OF OXFORD & NEW MILTON 7.5' USGS TOPO QUADRANGLES

FORM WW 6

WELL NO. OXFD13FHS

LATITUDE 39°12'30"

LONGITUDE 80°42'30"

11,258'

14,447'

ROYALTY OWNERS	ACRES	LEASE NO.
STATE OF WEST VIRGINIA	SALEM-HARRISVILLE TURNPIKE	
SUSAN V. DRENNAN, ET AL	203.0 AC±	131061001; 041996
	681.0 AC±	131061001; 041996
	48.65 AC±	131061001; 041996
	57.00 AC±	131061001; 041996
CARA D. FISHER, ET AL	12.12 AC±	252403000; 245974000
	158.34 AC±	252403000; 245974000

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- FENCE LINE
- COUNTY ROUTE
- STATE ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP–PARCEL 00–00

NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES, AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. HIGHLIGHTED LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 230 PAGE 307 AND ADJOINING DEEDS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2014.
4. WELL LAT./LONG. ESTABLISHED BY DGPS(SURVEY GRADE).
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250', THE CENTER OF PAD IS LESS THAN 625' FROM A DWELLING AND WAIVER IS TO BE OBTAINED.

WELL NO. OXFD13FHS TOP HOLE STATE PLANE COORDINATES (NORTH ZONE NAD 27)
N. 246,000.7
E. 1,646,154.2

TOP HOLE (NAD 27)
LAT=(N) 39°10'07.2"
LONG=(W) 80°44'52.9"

TOP HOLE (NAD 83)
LAT=(N) 39°10'07.5"
LONG=(W) 80°44'52.3"

TOP HOLE UTM (NAD 83)
(N) 4,335,534.0
(E) 521,780.9

WELL NO. OXFD13FHS HEEL POINT STATE PLANE COORDINATES (NORTH ZONE NAD 27)
N. 246,400.0
E. 1,645,150.2

HEEL POINT (NAD 27)
LAT=(N) 39°10'11.0"
LONG=(W) 80°45'05.8"

HEEL POINT (NAD 83)
LAT=(N) 39°10'11.3"
LONG=(W) 80°45'05.1"

HEEL POINT UTM (NAD 83)
(N) 4,335,650.6
(E) 521,472.9

WELL NO. OXFD13FHS TOE POINT STATE PLANE COORDINATES (NORTH ZONE NAD 27)
N. 251,069.2
E. 1,643,449.6

TOE POINT (NAD 27)
LAT=(N) 39°10'56.9"
LONG=(W) 80°45'28.2"

TOE POINT (NAD 83)
LAT=(N) 39°10'57.2"
LONG=(W) 80°45'27.6"

TOE POINT UTM (NAD 83)
(N) 4,337,064.4
(E) 520,931.1

FHS WELL TIES

LINE	BEARING	DISTANCE	
L1	N 66°01' E	1650.56'	
L2	N 41°06' E	1053.56'	
L3	S 87°25' W	482.17'	P/O WELL BORE

A	ROBERT K. SWIGER	12.03 ACRES±
B	ROBERT K. SWIGER (TRUSTEE)	12.03 ACRES±
C	ROBERT K. SWIGER	13.04 ACRES±
D	KEVIN C & TERESA A. MULLEN	5.58 ACRES±
E	MARIE E. HYDE ET AL	13.04 ACRES±
F	JEFFREY L. McKINNEY ET AL	1 ACRE±
G	TYLER G. & LENORA BUNTING	12.03 ACRES±
H	LINEY McKINNEY	10.86 ACRES±
I	KEVIN C & TERESA A. MULLEN	7.46 ACRES±
J	CNX GAS CO. LLC	1.09 ACRES±

REFERENCES

THE CENTER OF PAD IS LESS THAN 625' FROM A DWELLING AND A WAIVER IS TO BE OBTAINED.

47-017-5733

STAKE & NAIL SET

N 55°25' W 279.51'

N 68°51' E 344.59'

WOODS

EXISTING ACCESS ROAD

HOUSE

S 13°03' W 576.37'

1" = 200'

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 DIVISION OF ENVIRONMENTAL PROTECTION.

THOMAS M. MEEKS LICENSED No. 2266 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

P.S. 2266

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE AUGUST 13 , 20 14

REVISED , 20

OPERATORS WELL NO. OXFD13FHS

API WELL NO. 47 — 17 — 06632 H6A

STATE — COUNTY — PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200

PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE)

FILE NO. 7982PFHS(457-45)

SCALE 1" = 2,000'

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

WELL TYPE : OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION : ELEVATION EXISTING 1,180.0' PROPOSED 1,152.5' WATERSHED SOUTH FORK HUGHES RIVER

DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE NEW MILTON 7.5'

SURFACE OWNER I.L. MORRIS ACREAGE 6603.75±

ROYALTY OWNER SUSAN V. DRENNAN ET AL ACREAGE 203 OF 1427±

PROPOSED WORK : LEASE NO. L131061001(L041996)

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD

FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___

PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION BURKETT

ESTIMATED DEPTH 6,830' TVD / TMD 12,992'

COUNTY NAME

PERMIT

WELL OPERATOR CNX GAS COMPANY, LLC. DESIGNATED AGENT MATTHEW IMRICH

ADDRESS P.O. BOX 1248 JANE LEW, WV 26378

ADDRESS P.O. BOX 1248 JANE LEW, WV 26378