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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Wednesday, October 04, 2017  
WELL WORK PERMIT  
Coal Bed Methane Well / Plugging

CNX GAS COMPANY LLC  
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for 7D1 CCR  
47-049-01773-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.

James A. Martin  
Chief

Operator's Well Number: 7D1 CCR  
Farm Name: GOOCH, RONALD & LISA  
U.S. WELL NUMBER: 47-049-01773-00-00  
Coal Bed Methane Well / Plugging  
Date Issued: 10/4/2017

Promoting a healthy environment.

10/06/2017



## PERMIT CONDITIONS

West Virginia Code §22-6-11 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.

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### CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

4901773P

WW-4B  
Rev. 2/01

1) Date \_\_\_\_\_, 2017  
2) Operator's  
Well No. 7D1  
3) API Well No. 47-049 - 01773

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_/ Gas x/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production x or Underground storage \_\_\_\_ ) Deep \_\_\_\_/ Shallowx

5) Location: Elevation 1306.33 Watershed Pyles Fork  
District Mannington County Marion Quadrangle Mannington

6) Well Operator CNX Gas Company, LLC 7) Designated Agent Christopher Turner  
Address 1000 Consol Energy Drive Address P.O. Box 1248  
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name Coastal Drilling East LLC  
Address P.O. Box 2327 Address 70 Gums Springs Road  
Buckhannon, WV 26201 Morgantown, WV 26508

10) Work Order: The work order for the manner of plugging this well is as follows:  
See attached.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Sam Ward II Date 9/30/2017

10/06/2017

4901773P

## Plugging Work Order for Gooch 7D1 CCR

API Number 47-049-01773

Elevation 1423'

Original Permit Issued- 10/13/2005

1. Verify TD and casing volume (~1189')
2. Confirm casing size and depth. Pittsburgh coal is at 1189'.
3. Determine if slotted liner is present at bottom of casing string.
4. Set CIBP at lowest attainable depth (Stay above slotted liner if present)
5. TIH with 1-1/2" workstring to CIBP and CTS. Top off hole as necessary.
6. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-049-01773

Note-No well records are available for this well.

Work Order approved by Inspector  Date: 8/29/2017

Note: All cement will be Class A. All spacers will be 6% gel.

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**Attachment 13 (b)**

Production will be from the Pittsburgh Coal Seam.

When production ceases, the well will be plugged.

The proposed plugging, dependent on hole conditions, will be as follows:

Set a bridge plug at the bottom of the casing and fill the well bore to the surface with cement. (See Attached Drawing)



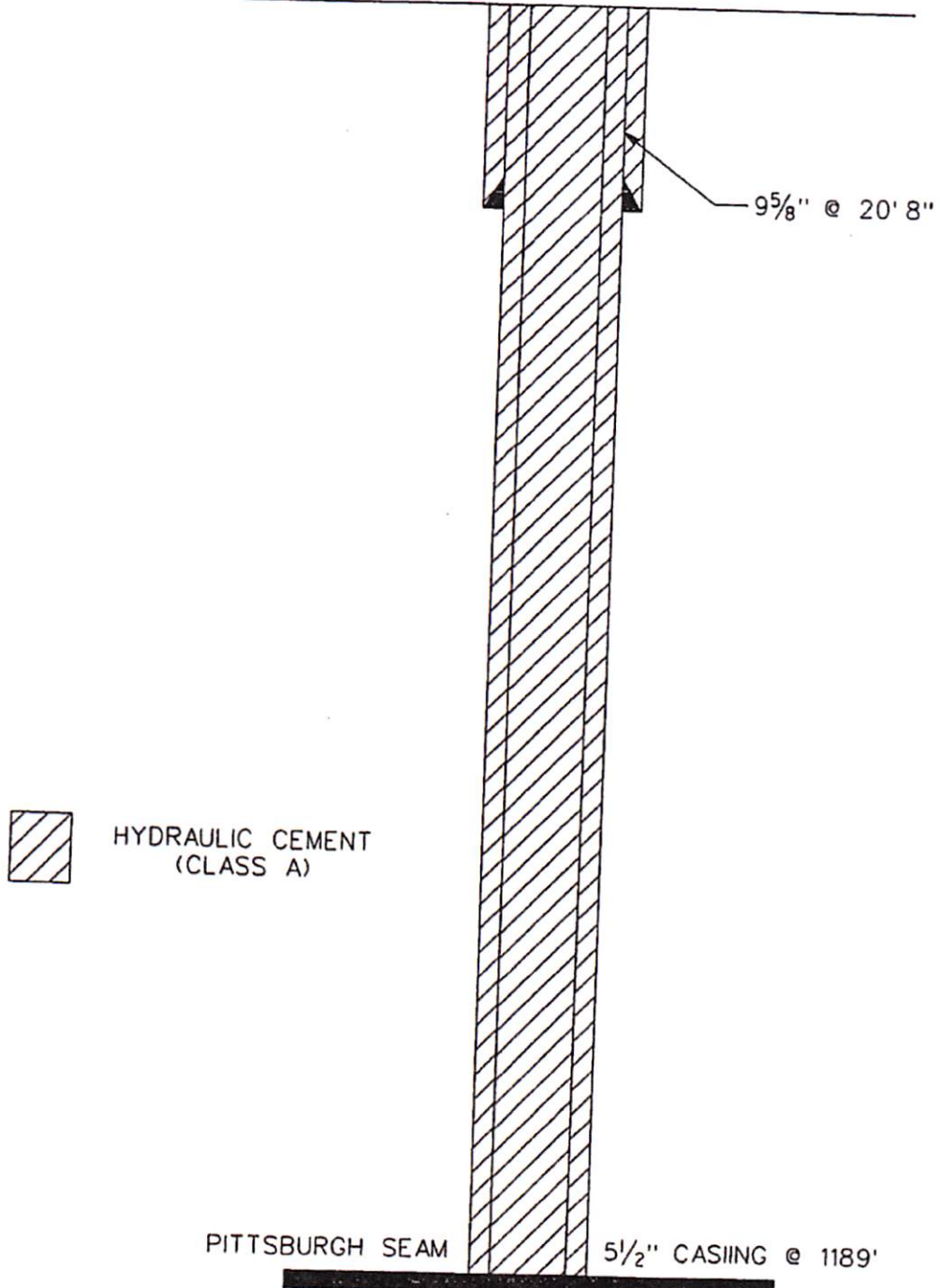
FIGURE 1  
CNX GAS COMPANY LLC


4901773 P

PAGE 3 OF 4

CBM-7D1 CCR

ORIGINAL CASING/  
PROPOSED PLUGGING AND ABANDONMENT SCHEMATIC  
SURFACE



 HYDRAULIC CEMENT  
(CLASS A)

PITTSBURGH SEAM 5 1/2" CASING @ 1189'

TOTAL DEPTH - 1189'

NOT TO SCALE 10/06/2017

11/7/05

EXISTING

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	9 5/8"				20'	Surface
Fresh Water	5 1/2"				1189'	110 sacks
Coal	5 1/2"				1189'	110 sacks
Intermediate						
Production	5 1/2"				1189'	110 sacks
Tubing						
Liners						

BN 8-16-06

PACKERS:

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AUG 21 2006  
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For Office of Oil and Gas Use Only

- Fee(s) paid:   
  Well Work Permit   
  Reclamation Fund   
  WPCP  
 Plat   
  WW-9   
  WW-5B   
  Bond \_\_\_\_\_   
  Agent  
 (Type)

PREDICT

49.01773 P

HOLE: 7 D 1 CCR  
ESTIMATED EASTING 1756746  
ESTIMATED NORTHING 405315  
ESTIMATED ELEVATION 1423

SEAM	DEPTH FROM (FEET)	DEPTH TO (FEET)	ELEVATION (TOSE)	THICKNESS (FEET)
TOPO	0.00	0.00	1423.21	0.00
WS	668.90	669.83	754.31	0.93
WA	760.73	761.80	662.48	1.07
WB2	827.81	828.80	595.40	0.99
WB1	830.19	833.27	593.02	3.08
SW	1085.19	1091.07	338.02	5.88
RS	1157.02	1158.26	266.19	1.24
P2	1181.22	1181.63	241.99	0.41
P1	1182.96	1183.78	240.25	0.82
*PG	1185.34	1192.96	237.87	7.62

\* Coal seam subject to coalbed methane production.

08:23:04 03/06/06





4901773P

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
7D1 \_\_\_\_\_  
3) API Well No.: 47 - 049 - 01773

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Annette M Speerhas</u>	Name <u>See attached</u>
Address <u>293 Pleasant View Drive</u>	Address _____
<u>Midland, PA 15059</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See attached</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>See attached</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	

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**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator CNX Gas Company, LLC  
 By: Erika Whetstone *Erika Whetstone*  
 Its: Permitting Supervisor  
 Address 1000 Consol Energy Drive  
Canonsburg, PA 15370  
 Telephone (724) 485-4035



Subscribed and sworn before me this 9th day of June 2017  
Lori L. Walker Notary Public  
 My Commission Expires February 23, 2019

COMMONWEALTH OF PENNSYLVANIA  
 NOTARIAL SEAL  
 Lori L. Walker, Notary Public  
 Richhill Twp., Greene County  
 My Commission Expires Feb. 23, 2019  
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

10/06/2017

4901773P

**WW-4A Attachment**

**Gooch 7D1 API# 47-049-01773**

**Coal Owner(s):**

Consolidation Coal Company ✓  
1000 Consol Energy Drive  
Canonsburg, PA 15317

Annette M. Speerhas ✓  
989 Ridge Road  
Ambridge, PA 15003

**Coal Operator:**

The Marion County Coal Company ✓  
46226 National Rd W  
St. Clairsville, OH 43950

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4901773 P

WW-9  
(5/16)

API Number 47 - 049 - 01773  
Operator's Well No. \_\_\_\_\_

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) Pyles Fork Quadrangle Mannington

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: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

Will closed loop system be used? If so, describe: no

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

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

Additives to be used in drilling medium? na

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

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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.

Company Official Signature Erika Whetstone  
Company Official (Typed Name) Erika Whetstone  
Company Official Title Permitting Supervisor

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Lori L. Walker, Notary Public  
Richhill Twp., Greene County  
My Commission Expires Feb. 23, 2019  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me, this 9th day of June, 20 17  
Lori L Walker Notary Public

My commission expires February 23, 2019



Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Plugging Permit

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Title: DOG Inspector Date: 8/30/17

Field Reviewed? ( ) Yes ( X ) No



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

**LEGEND**

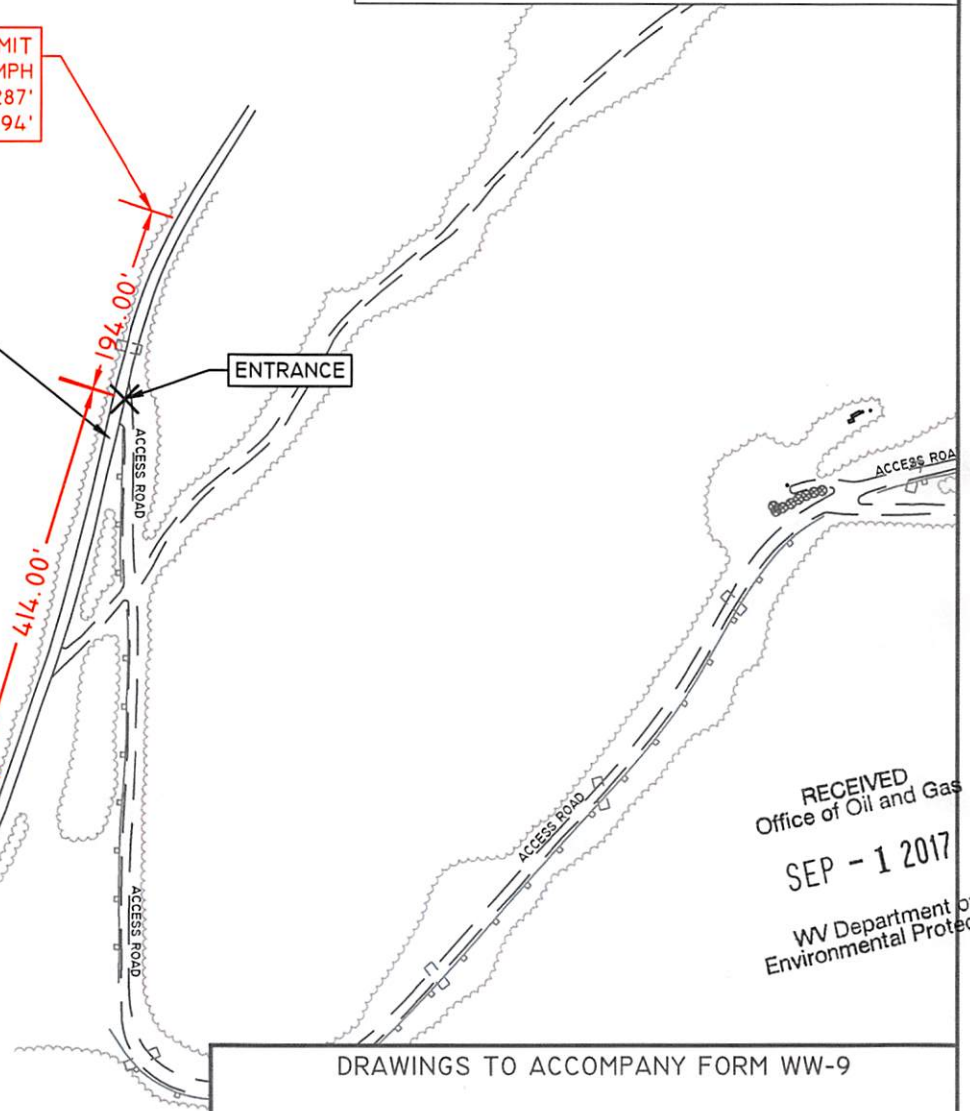
- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE

SIGHT DISTANCE LIMIT  
SPEED LIMIT: 35 MPH  
REQUIRED DISTANCE - 287'  
MEASURE DISTANCE - 194'

CAMPBELLS RUN ROAD  
SPEED LIMIT 35  
(CR 2/3)

ENTRANCE

SIGHT DISTANCE LIMIT  
SPEED LIMIT: 35 MPH  
REQUIRED DISTANCE - 287'  
MEASURE DISTANCE - 414'



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DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY, LLC.

200 HALLAM ROAD

WASHINGTON, PA 15301

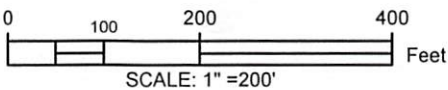
WATERSHED: PYLES FORK

DISTRICT: MANNINGTON COUNTY: MARION

QUADRANGLE: MANNINGTON WELL NO: 7DI CCR

DATE: 05/04/2017 PAGE 1 OF 4

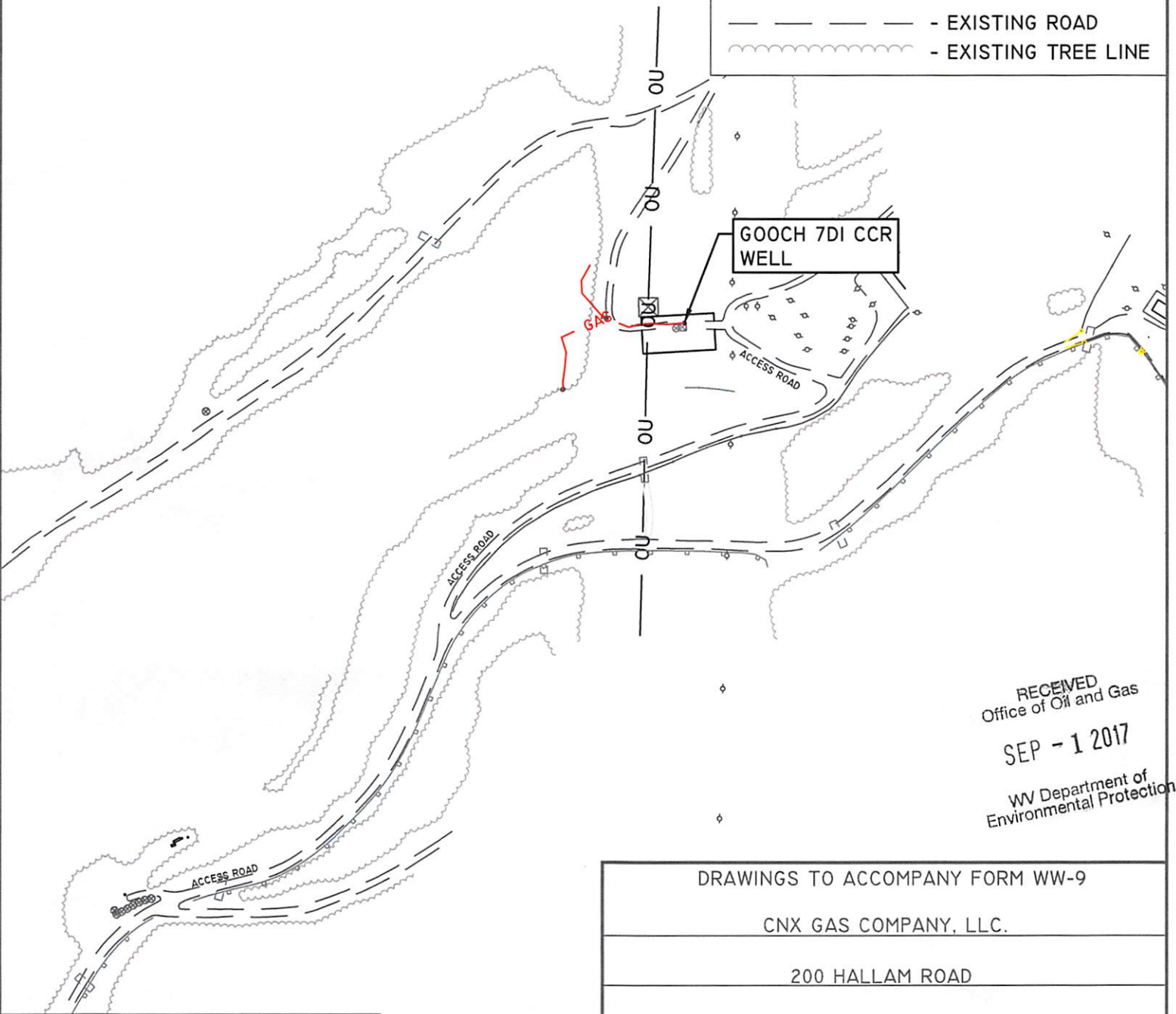
10/06/2017



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

**LEGEND**

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



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200 HALLAM ROAD

WASHINGTON, PA 15301

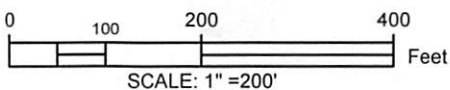
WATERSHED: PYLES FORK

DISTRICT: MANNINGTON COUNTY: MARION

QUADRANGLE: MANNINGTON WELL NO: 7DI CCR

DATE: 05/04/2017 PAGE 2 OF 4

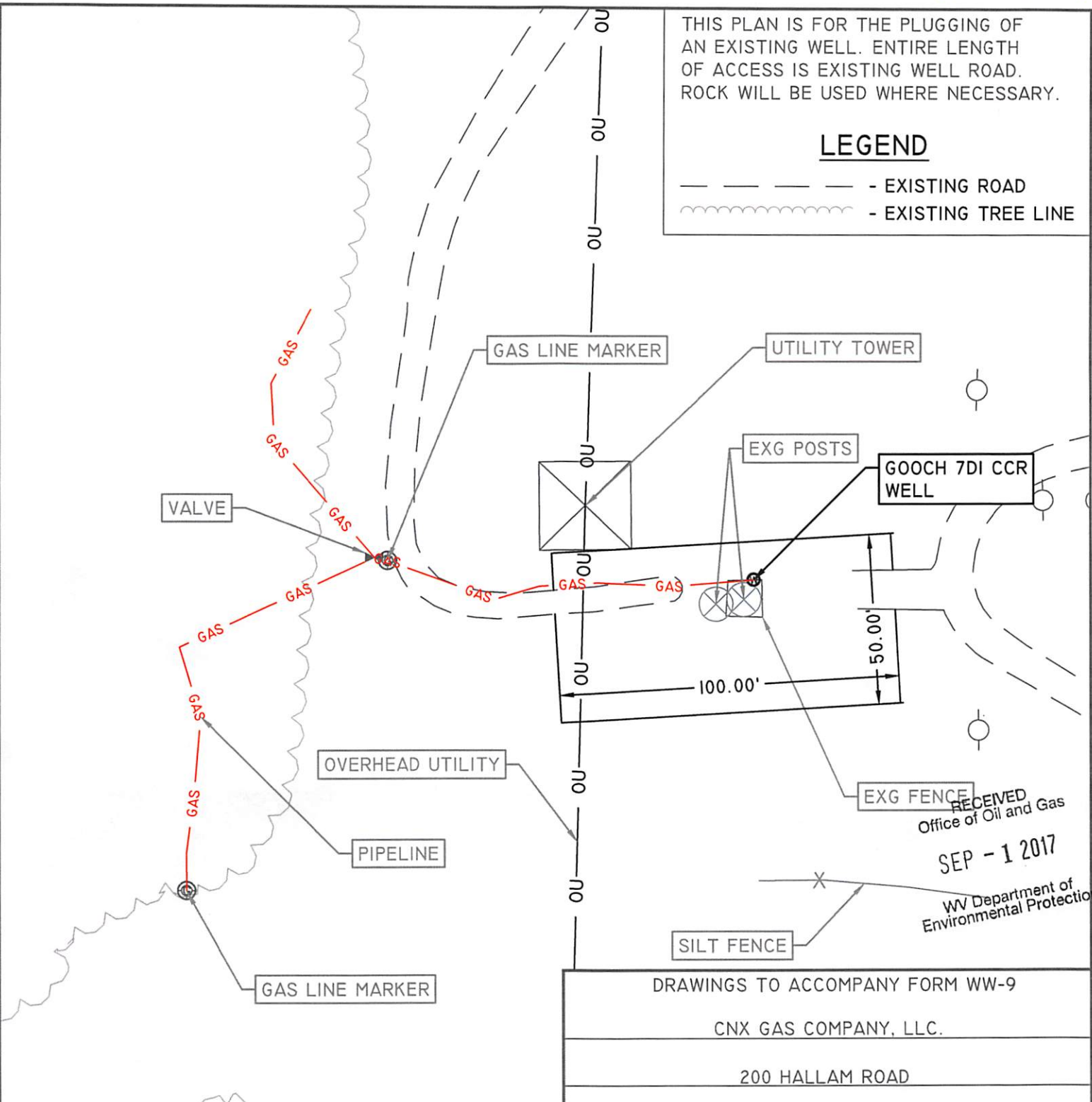
10/06/2017



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**LEGEND**

- - - - - EXISTING ROAD
- ~~~~~ EXISTING TREE LINE



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DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY, LLC.

200 HALLAM ROAD

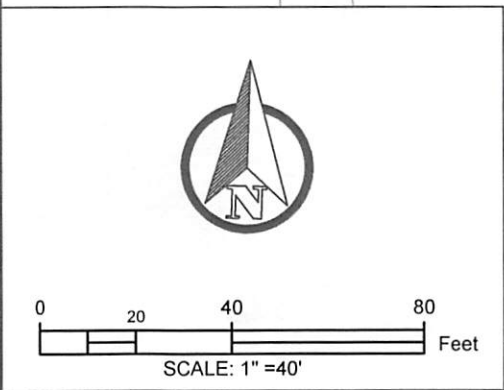
WASHINGTON, PA 15301

WATERSHED: PYLES FORK

DISTRICT: MANNINGTON COUNTY: MARION

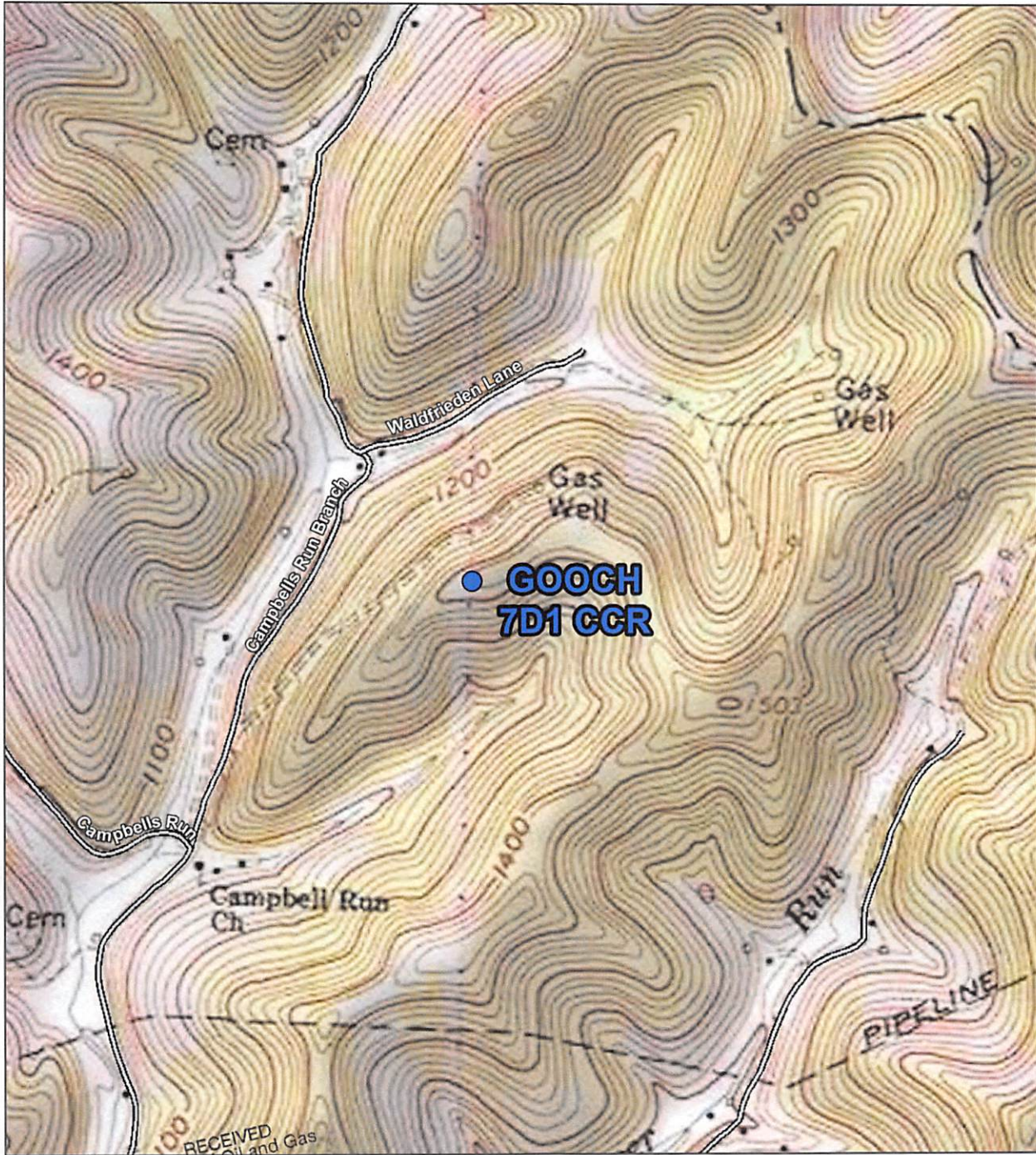
QUADRANGLE: MANNINGTON WELL NO: 7DI CCR

DATE: 05/04/2017 PAGE 3 OF 4



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LOCATION MAP

MANNINGTON, WV 7.5M USGS QUADRANGLE  
SCALE: 1"=1000'



LOCATION MAP

GAS WELL PLUGGING  
GOOCH 7D1 CCR GAS WELL  
MANNINGTON DISTRICT  
MARION COUNTY, WV

CNX GAS COMPANY, LLC.  
200 HALLAM ROAD  
WASHINGTON, PA 15301

DRAWN BY: LLF

CHECKED BY: WPF

DATE: 05/04/2017

SCALE: 1"=1000'

WATERSHED:

PYLES FORK

PAGE 4 OF 4

10/06/2017

**Blue Mountain Inc.**  
Engineers and Land Surveyors  
Woman Owned Small Business  
11023 Mason Dixon Hwy.  
Burton, WV 26562-9656  
(304) 662-6486



49 01773P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-049-01773 WELL NO.: 7D1

FARM NAME: Gooch

RESPONSIBLE PARTY NAME: Erika Whetstone

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Mannington

SURFACE OWNER: Annette Speerhas

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,384,634.80 meters

UTM GPS EASTING: 554,666.18 meters GPS ELEVATION: 398.17 meters (1306')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Erika J. Whetstone  
Signature

Permitting Supervisor  
Title

9/9/17  
Date

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