

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

#### Thursday, August 23, 2018 WELL WORK PLUGGING PERMIT Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC. RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for Warder West 47-007-00609-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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

Mant.

Operator's Well Number: Warder West Farm Name: FRED WEST U.S. WELL NUMBER: 47-007-00609-00-00 Vertical Plugging Date Issued: 8/23/2018

Promoting a healthy environment.

## **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### 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.

WW-4B Rev. 2/01	1) Date August 7 , 20 18 2) Operator's Well No. Warder West 3) API Well No. 47-007 - 00609
DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas X/ Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ ShallowX
5) Location: Elevation 912'	Watershed Bull Run
District Otter	County Braxton Quadrangle Cedarville
6) Well Operator Ross & Wharton Gas Co. Inc.	7)Designated Agent Mike Ross
Address 354 Morton Ave.	Address P.O. Box 219
Buckhannon, WV 26201	Coalton, WV 26257
8) Oil and Gas Inspector to be notified Name Danny Mullins	9)Plugging Contractor Name <b>R &amp; R Well Service</b>
Address 220 Jack Acres Rd.	Address 42 Lynch Ridge
Buckhannon, WV 26201	Walton, WV 25286

10) Work Order: The work order for the manner of plugging this well is as follows:
Free point and recover casing's & tubular's
6% Gel between plug's
Set cement plug 1735' to TD (2025') Plug 100' above top perf
Set 100' cement plug across casing cut
Set cement plug 1450' to 1650' (Lime, Blue Monday) and gas/oil shows
Set cement plug 620' to 920' (salt bearing strata) and gas show and 8"
Set cement plug 256' to surface,(10"casing plug, freshwater protection plug
and surface plug) Tag plug's as necessary, Set monument with API number Elived

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WV Department of Environmental Protection

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

	$\bigcirc$	
Work order approved by inspector	Long Millin	Date 8-9-18

Gas

Oil or Gas Well.



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Quadrangle Glenville 609 - BRAY Permit No.

WELL RECORD

(KIND) The Waverly Oil Works Company Company\_ Used in Drilling Left in Well Casing and Tubing Packers 4403 Centre Avenue, Pittsburgh, Pa. Address. 101 Warder West Acres Farm. Bull Run Size Location (waters)\_\_\_\_ Kind of Packer None 18 18' 912 1 Elev 16 Well No. Braxton Otter \_County\_ 13. District 206 206 Fred West The surface of tract is owned in fee by ..... 10. Size of\_ 6731 0 228 E. Philadelphia Avattiress Youngstown, Ohio 8% Fred West & Daisy West 1785" 0 65% Depth set Mineral rights are owned by\_ 2025 WYNK 42" 2025\* same above Address\_ 4/28/65 Perf. top. Drilling commenced\_ 1988 6/3/65 1988\* 1" Perf. bottom. X Drilling completed\_ Perf. top\_ To\_ Liners Used Date Shot From With\_ Perf. bottom. 1/2 Inch 6410ths Water in\_\_\_\_ **Open** Flow /10ths Merc. in. Inch CASING CEMENTED Yes SIZE 42 No. Ft. 1600" Date 15M .Cu. Ft. Volume 6/4/65 - 80 sks. Rock Pressure. lbs hrs COAL WAS ENCOUNTERED AT \_\_\_\_ FEET\_ INCHES bbls., 1st 24 hrs. Oil\_ INCHES -. FEET. FEET INCHES WELL ACIDIZED\_ •• FEET FEET\_ INCHES INCHES

WELL FRACTURED 6/9/65 Dowell, Two Allison, 1000 gal. acid, 30M 20 x 40 sand, broke 1200#, ave. press. 1600#, ave. inj. 32 BPM, 600 BEL. water. 500M RESULT AFTER TREATMENT.

610# - 12½ hrs. ROCK PRESSURE AFTER TREATMENT. 90" hole full

Feet Fresh Water\_ \_Feet\_ Salt Water. Oil, Gas or Water Hard or Soft Formation Color Top Bottom Depth Remarks Conductor . 0 18 Sand 18 40 Slate 40 80 80 HF Water 90' Sand 100 **Red Rock** 100 198 Blue Slate 198 210 **Red Rock** 210 215 Blue Slate 215 230 **Red Rock** 230 250 Sand-Lime 250 305 **Red Rock** 305 345 Slate 345 355 355 **Red Rock** 380 Slate 380 400 Red Rock 400 425 Blue Slate 425 445 445 Sand 480 Dark Slate 480 490 Red Rock 490 510 Blue Slate -Lime 510 550 550 555 Sand Slate 555 560 Line 560 570 Dark Slate 570 585 Gritty Lime 585 600 Sand 600 650 Dark Slate 650 660 JUN Blue Slate RECEIVED 660 665 Lime & Shells 665 673 virginia West Slate 673 685 Dept

(over)

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06-10

- 23

	Color 1	Hard or Soft	Тор	/ Bottom	Oil, Gas or Water	Depth Found	Remarks	
Lime			685	710				
Slate-Shells			710	790				
Gritty Lime			790	835		1		
Slate&Shells			835	850				
Sand Dark Slate			850	960	Show Gas	860	50M	
Sand			960	975	1			
Slate&Shells			975	1010				
Sand			1010	1035				
Slate&Shells			1055	1060				
st Salt Sand			1360	1440				
ime			1440	1440				
Sand			1450	1465				
Slate			1465	1470				21
Sand			1470	1485				10
Slate-Lime			1485	1505	1			
Sand-2nd Salt Sa	nd	- 12	1505	1562	5/11/65 4			
			2505	1302	2504 in 2nd	Solo pm - Sho	v oil & gas. Est.	
	1				down for te	Salt Sand 1	550-1555*. Shut	
-					J/15/05-101	00 am - 100"	oil in 8" hole	
					In 10 ars,	une mour te	st 10 gal. oil.	
					5/17/65 1.0	to 33M 22	10 W in 1".	
			8		oil. Depth	1 am - 36 hr	test, 35' of	
late		1	1562	1585	orr. Depth	1300.		
and		1	1585	1600	Show gas	1595'		
ed Rock			1600	1645	Show gas	1292.		
late & Shells			1645	1670				
ed Rock			1670	1680				
late & Shells			1680	1701				
and			1701	1709	1	1		
late	1		1709	1725		1		
encil Cave	1		1725	1728				
late			1728	1731				
ittle Lime			1731	1778	1			
lue Monday Shal	e		1788	1794	Ran 7" OD	at 1795		r
					Show gas	1785-1790*	· · · · · · · · · · · · · · · · · · ·	
		•	•	• •	Gauge at 1	792. 24/10 1	- 34M - 1"orifice	
ig Lime		1	1794	1867 .	Gauge at 1	22, 24/10 W	- Jan - L"orifice	
eener Sand (lim	ey)		1867	1915				
ajun Sand (limey			1915	1972	Show Gas	1930-1939*		
quaw Sand					Increase	1939-42 - 33	10W - ½" orf.	
Acres Sano			1972	1996	Gauged 35/1	LOW - 5" orfl	19837	
lue Siltstone		1	1001		Increased !	50/10W 4 @ 1	992*	
D.			1996	2025	Increased (	4/10W 1 @	998	
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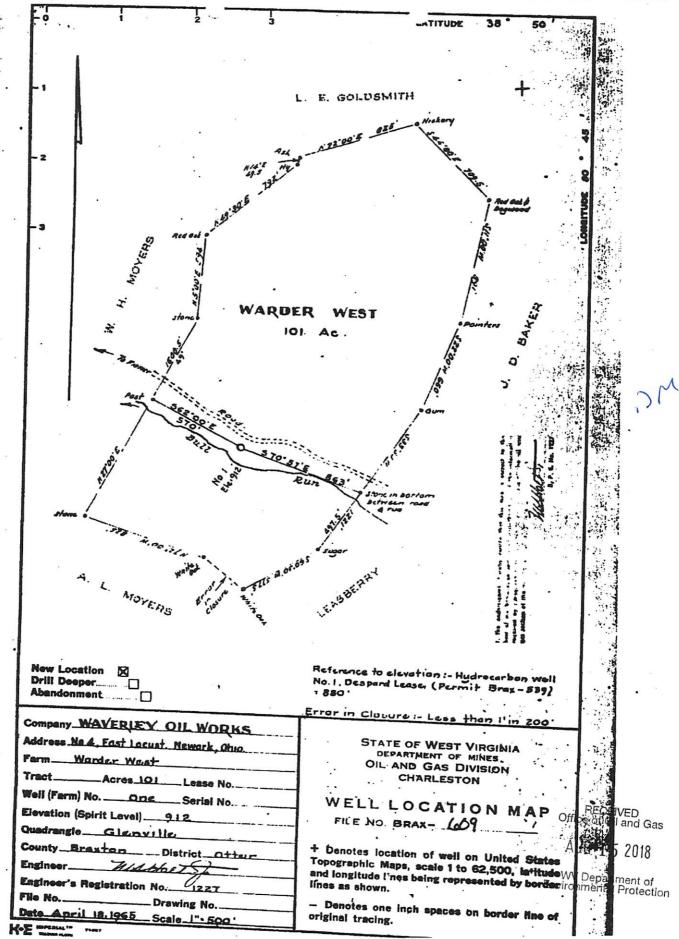
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Date June 25

, 19 65

APPROVED The Wayerly Oil Works Company , Owner By R.L. Vockel-Press. (Title)



WW-4A Revised 6-07 1) Date: August 7, 2018 2) Operator's Well Number Warder West #1

3) API Well No.: 47 - 007 - 00609

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL</u>

4) Surface Ow	ner(s) to be served:	5) (a) Coal Operator		
(a) Name	Ronald E. West	Name	N/A	
Address	78 Roche Way	Address	-	
	Youngstown, OH 44512			
(b) Name		(b) Coal Own	ner(s) with Declaration	
Address		Name	N/A	
		Address		
	-			
(c) Name		Name		
Address		Address		
6) Inspector	Danny Mullins	(c) Coal Less	see with Declaration	
Address	220 Jack Acres Rd.	Name	N/A	
	Buckhannon, WV 26201	Address		
Telephone	304-932-8049			

#### 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	Ross & Wharton Gas Co. Inc. (Mike Ross Inc.)	
By: Its:	Hothe Asias	
Address	354 Morton Ave.	
	Buckhannon, WV 26201	
Telephone	1-304-472-4289	Office of Oil and Gas
Subscribed and sworn before me this $1374$ da	lay of _ august, 2018	AUG 1 5 2018
My Commission Expires Sentences 9	Notary Public	WV Department of Environmental Protection
Oil and Gas Privacy Notice		KELLY L FISHER Notary Public Official Seal State of West Virginia My Comm. Expires Sep 9, 2022
The Office of Oil and Gas processes your personal inform	lation, such as name, address and phone numberer	ISCENERAL ROCK Care WV 26234

regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the weak dww w 2023 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 <u>depprivacyoffier@wv.gov</u>.

W W-9	
(5/16)	API Number $47 - 007 - 00609$
	Operator's Well No
STATE OF WES Department of Environ Office of OI Fluids/ Cuttings Disposal	NMENTAL PROTECTION IL AND GAS
Operator Name Ross & Wharton Gas Co. Inc.	OP Code <u>306580</u>
Watershed (HUC 10) Bull Run	Quadrangle Cedarville
Do you anticipate using more than 5,000 bbls of water to complete t Will a pit be used? Yes No	
•	
If so, please describe anticipated pit waste:	
	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a co	•
	nber)
Reuse (at API Number Off Site Disposal (Supply form WW-9 for WW-9	
Will closed loop system be used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	· · · ·
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, removed offsi	te, etc
-If left in pit and plan to solidify what medium will be used	? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	

Permittee shall provide written notice to the Office of Oil and Cas 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		RECEIVED Office of Oil and Gas
Company Official (Typed Name) Mike Ross		AUG 1 5 2018
Company Official Title President		
		WV Department of Environmental Protection
Subscribed and sworn before me this <u>1374</u> day of <u>August</u>	20_ <i>18</i>	
- July L. tasker	Notary Public	
My commission expires september 9, 2022		KELLY L FISHER
	792 Gos	Notary Public Official Seal State of West Virginia y Comm. Expires Sep 9, 2022 hen Rd. Rock Cave WV 26234

# 47-007-006098

and the second second

Form	WW-9	
1 OIIII	** ** ->	•

Mulch

	Operator's Well No
Proposed Revegetation Treatment: Acres Disturbed 1 acre	Preveg etation pH 6.5
Lime 2 Tons/acre or to correct to pH 6.5	
Fertilizer type 10-20-20	
Fertilizer amountlbs/acre	
Mulch Tons/acre	

#### Seed Mixtures

Т	`emporary	Pe	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	30	Fescue	30
Contractors Mix		Contractors Mix	

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: Long 1	Milin			
Comments:				
			RECEIVED Office of Oil and	) d Gae
			AUG 15 20	)18
			WV Departmen Environmental Pro	t of tection
Title: 05 Trspcto(	/	Pate: <u>8-9-18</u>		

WW-9- GPP Rev. 5/16 Page \_\_\_\_\_ of \_\_\_\_\_ API Number 47 - 007 \_\_\_\_ 00609 \_\_\_\_\_ Operator's Well No.

Quad: Cedarville

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

Operator Name: Ross & Wharton Gas Co. Inc.

Watershed (HUC 10): Bull Run

Farm Name:

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

**Bull Run** 

 List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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AUG 1 5 2018 N/A WV Department of Environmental Protection

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

47-007-006091

WW-9- GPP Rev. 5/16 Page 2 of 2 API Number 47 - 007 - 00609 Operator's Well No.\_\_\_\_\_

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

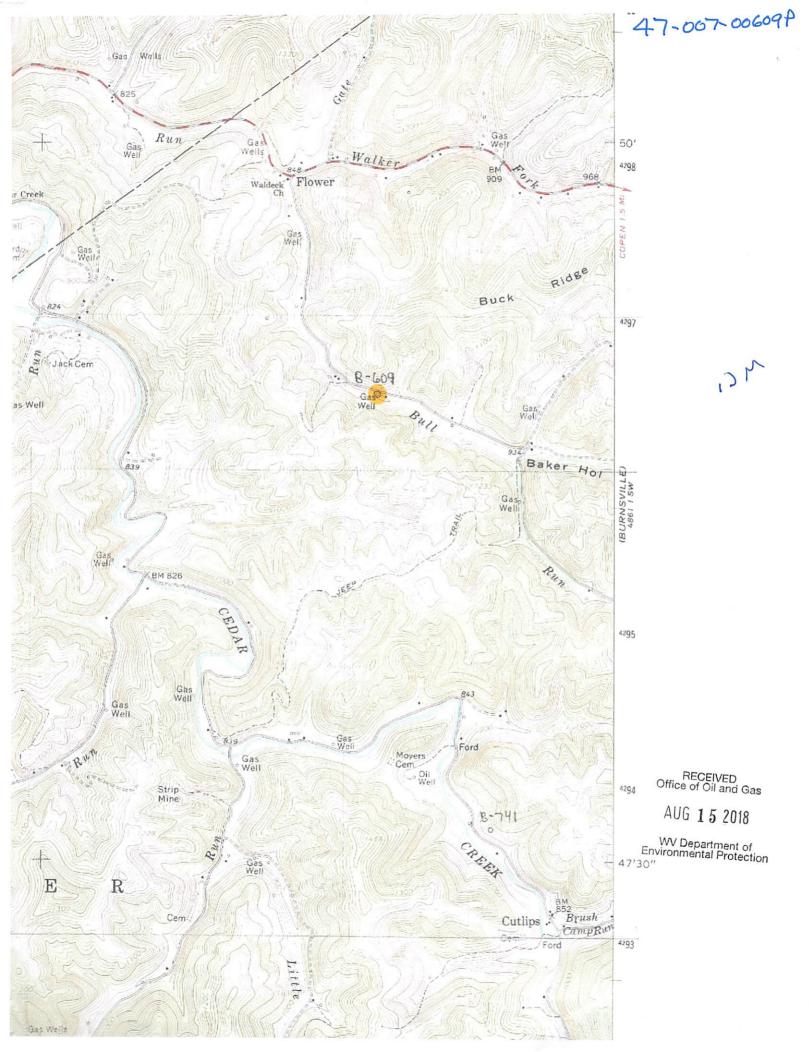
No material will be used

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A	
	RECEIVED Office of Oil and Gas
	AUG 1 5 2018
Signature: Wilke KOLS	WV Department of Environmental Protection
Date: august 13, 2018	



WW-7 8-30-06	
West Virginia Department of Environmental Protection	
Office of Oil and Gas	
WELL LOCATION FORM: GPS	
<sub>API:</sub> 47-007-00609	WELL NO.:
FARM NAME: Warder West	
responsible party name: Mike Ross	
COUNTY: Braxton	
QUADRANGLE: Cedarville	
SURFACE OWNER: Fred West	к
ROYALTY OWNER: Ronald West	
UTM GPS NORTHING: 4296691 N	
UTM GPS EASTING: 520218 E	GPS ELEVATION: 912
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
- Data Collection Method: 3.

RECEIVED Office of Oil and Gas Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_\_ Real-Time Differential AUG 1 5 2018 Mapping Grade GPS : Post Processed Differential WV Department of Environmental Protection

Real-Time Differential

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

- KOH 20 President <u>8-13-18</u> Date Title Signature