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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

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

Friday, February 09, 2018  
WELL WORK PERMIT  
Vertical / Plugging

DUCKWORTH, STEVE WELL SERVICE  
P O BOX 6871

CHARLESTON, WV 253620000

Re: Permit approval for 8  
47-081-00416-00-00

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: 8  
Farm Name: WESTERN POCAHONTAS  
U.S. WELL NUMBER: 47-081-00416-00-00  
Vertical / Plugging  
Date Issued: 2/9/2018

Promoting a healthy environment.

02/09/2018

## 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

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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.

1) Date December 8, 2017  
2) Operator's  
Well No. Western Pocahontas #8  
3) API Well No. 47-081 - 00416

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 \_\_\_ / Shallow X

5) Location: Elevation 2127' Watershed Boyd Branch of Paint Creek  
District Town County Raleigh Quadrangle Oak Hill 7.5'

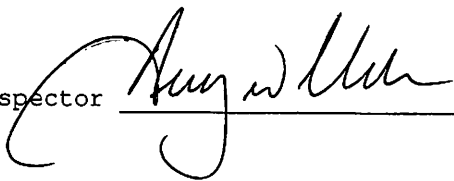
6) Well Operator Steve Duckworth Well Service 7) Designated Agent Steve Duckworth  
Address 181 Sugarcamp Rd. Address 181 Sugarcamp Rd.  
Gassaway, WV 26624 Gassaway, WV 26624

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name GARY KENNEDY Name Steve Duckworth Well Service  
Address \_\_\_\_\_ Address 181 Sugarcamp Rd.  
Gassaway, WV 26624

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

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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  Date 11-20-17

Plugging Procedure

Western Pocahontas #8

TD of 4-1/2" @ 1687'.  
Estimated 4-1/2" TOC @ 1300' (calculated).  
TD of 7" @ 784'.  
Estimated 7" TOC @ circulated to surface.  
Perfs @ 1572'-1622'.

- 1-Circulate hole full of gel.
- 2-Pump 125' cmt plug (approx. 20 sx) across perfs from 1525'-1650'.
- 3-Gel to 1350'.
- 4-Cut 4-1/2" at free point (approx. 1300').
- 5-Pump 100' cmt plug (approx. 20 sx) across pipe cut from 1250'-1350'.
- 6-Gel to 830'. *884'*
- 7-Pump 100' cmt plug (approx. 25 sx) across bottom of 7" from 730'-830'. *75 sx OF EXPANDING CEMENT. 884'-584'.*
- 8-Gel to 100'. *CLASS A CEMENT*
- 9-Pump 100' cmt plug (approx. 25 sx) from 0'-100'.
- 10- Install monument with API #.

*JMM*  
*PER WV CODE*  
*22-6-24b.*

*Operator to cover all perfs  
Casing cuts elevation Fresh water & coals  
with Cement*

*[Signature]*  
*11-2017*

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division  
WELL RECORD

Quadrangle Beckley  
Permit No. Ral 416

Rotary X Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company <u>Pilot Oil &amp; Gas Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>1006 Commerce Sq., Charleston, W. Va.</u>				
Farm <u>Western Pocahontas</u> Acres <u>6200</u>	Size			
Location (waters) <u>Boyd Branch</u>	20-16			
Well No. <u>8</u> Elev. <u>2127</u>	Cond.			
District <u>Town</u> County <u>Raleigh</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8			
Address _____	8 5/8			
Mineral rights are owned by <u>Western Pocahontas Corp.</u> Address <u>Cleveland, Ohio</u>	7	784	784	Circ to surf.
Drilling Commenced _____	5 1/2			
Drilling Completed <u>February 23, 1977</u>	4 1/2	1687	1687	50 SX
Initial open flow _____ cu. ft. _____ bbls.	3			
Final production <u>600,000</u> cu. ft. per day _____ bbls.	2			
Well open _____ hrs. before test _____ RP.	Liners Used			

Well treatment details: \_\_\_\_\_  
Attach copy of cementing record.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand \_\_\_\_\_ Depth 1572-1584, 1598-1622

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	289		
Coal			289	291		
Sand & Shale			291	372		
Coal			372	375		
Sand & Shale			375	548		
Coal			548	551		
Shale			551	610		
Sand			610	716		
Sand & Shale			716	1075		
Shale			1075	1150		
Sand & Shale			1150	1294		
Sand			1294	1384		
Shale			1384	1558		
Sand			1558	1626		
Shale			1626	1687		

Goos S/G  
T.D.

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DEPT. OF MINES

\* Indicates Electric Log tops in the remarks section.

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks

Date October 16 1978

APPROVED Pilot Oil & Gas Corp.

By [Signature]  
(Title) Vice President



81-00416P

WW-4A  
Revised 6-07

1) Date: 12/8/17  
2) Operator's Well Number  
Western Pocahontas #8  
3) API Well No.: 47 - 081 - 00416

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>Helen Crafton</u>	Name <u>N/A</u>
Address <u>P.O. Box 186</u>	Address _____
<u>Pax, WV 25904</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>ACIN, LLC</u>
_____	Address <u>5620 Irwin Rd.</u>
(c) Name _____	<u>Huntington, WV 25705</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name <u>None</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

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

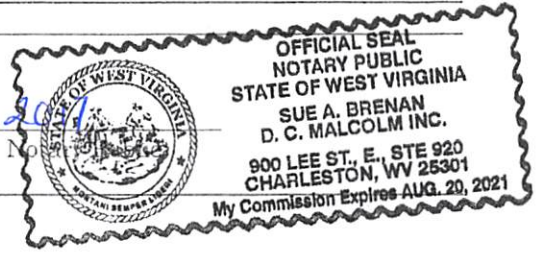
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Steve Duckworth Well Service  
 By: \_\_\_\_\_  
 Its: President Steve Duckworth  
 Address 181 Sugarcamp Rd.  
Gassaway, WV 26624  
 Telephone 304-343-7142

Subscribed and sworn before me this 20th day of December 2017  
Sue A. Brennan  
 My Commission Expires Aug. 20, 2021



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).

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**SURFACE OWNER WAIVER**

Operator's Well  
Number

Western Pocahontas #8

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

Selen F Crafton Date 12-20-17 Name  
Signature By

\_\_\_\_\_  
\_\_\_\_\_  
Date

Signature

Date



API No. 47-081-00416 P  
Farm Name Western Pocahontas #8  
Well No. Western Pocahontas #8

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

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**WV Department of  
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8100416P

WW-9  
(5/16)

API Number 47 - 081 - 00416  
Operator's Well No. Western Pocahontas #8

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Steve Duckworth Well Service OP Code 307179

Watershed (HUC 10) Boyd Branch of Paint Creek Quadrangle Oak Hill 7.5'

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 AST will be used on site and removed after P&A work is complete)

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY.

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. No Drilling, P&A

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

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

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 Steve Duckworth

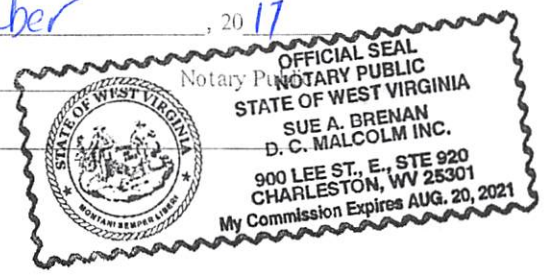
Company Official (Typed Name) Steve Duckworth

Company Official Title President

Subscribed and sworn before me this 20th day of December, 2017

Sue A. Brennan

My commission expires Aug. 20, 2021



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Proposed Revegetation Treatment: Acres Disturbed 0.77 Ac. +/- Prevegetation pH 6.2

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 1/3 Ton lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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: \_\_\_\_\_

Title: Inspect Oil & Gas Date: 11-20-17

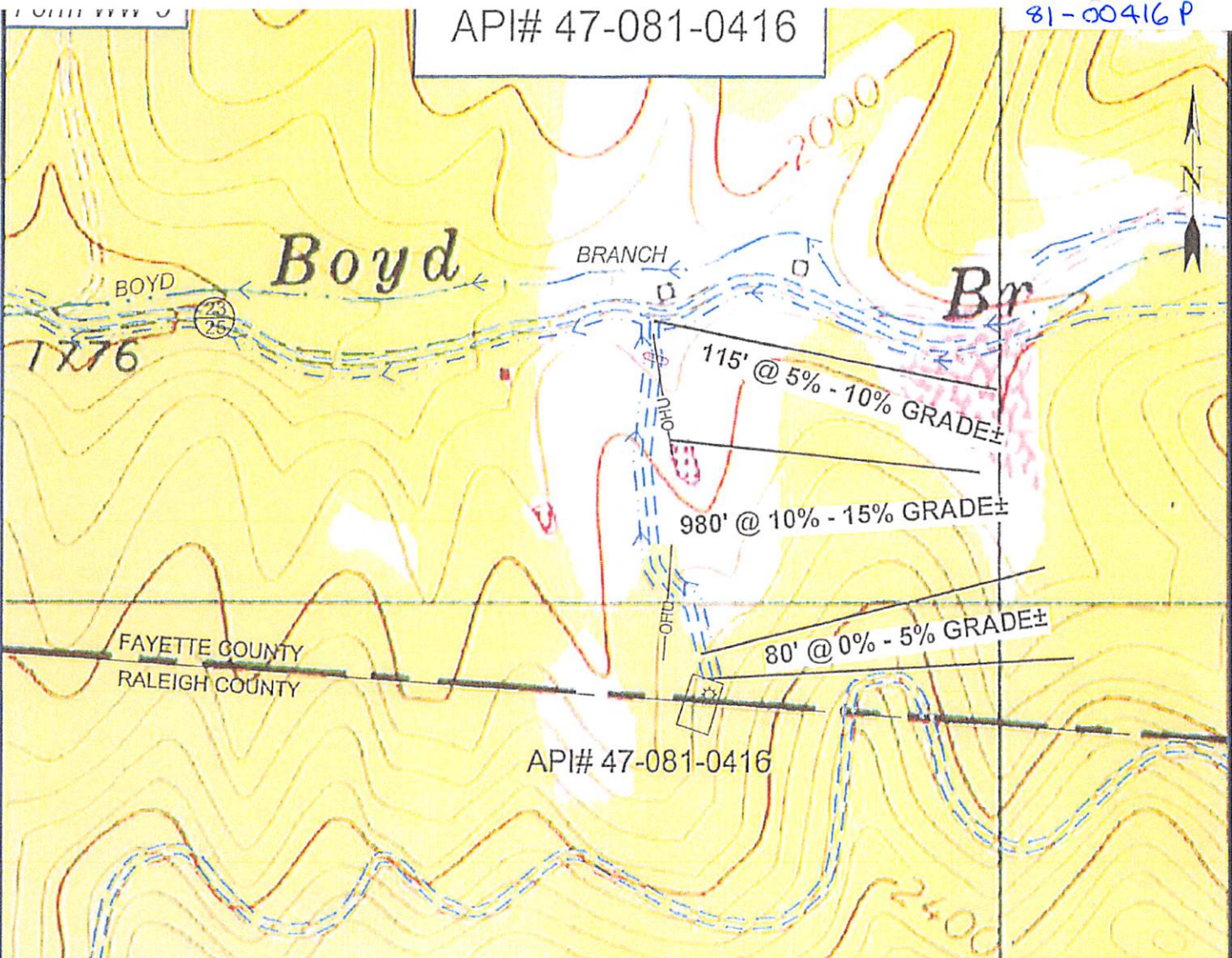
Field Reviewed?  Yes  No

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API# 47-081-0416

81-00416 P

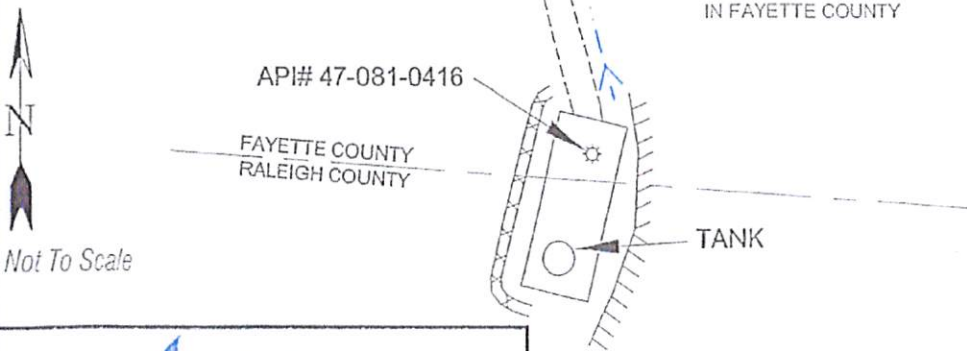


API# 47-081-0416

SCALE: 1"=500'



Detail Sketch for API# 47-081-0416



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

- = EXISTING CULVERT
- = PROPOSED CULVERT 15' MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING

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TOPO SECTIONS OF OAK HILL 7.5'  
TOPO QUADRANGLE

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Solutions from the ground up.  
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DRAWN BY:	FILE NO.:	DATE:	CADD FILE:
MGF	8761	12-08-17	8761REC.dwg



WW-7  
8-30-06



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

API: 47-081-00416 WELL NO.: Western Pocahontas #8

FARM NAME: Western Pocahontas

RESPONSIBLE PARTY NAME: Steve Duckworth Well Service

COUNTY: Raleigh DISTRICT: Town

QUADRANGLE: Oak Hill 7.5'

SURFACE OWNER: Helen Crafton

ROYALTY OWNER: Western Pocahontas Corp.

UTM GPS NORTHING: 4193132.7

UTM GPS EASTING: 478732.1 GPS ELEVATION: 645.7m (2118')

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.

Matthew J. Hill  
Signature

Project Manager  
Title

12-13-2017  
Date

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