



west virginia department of environmental protection

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

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

Tuesday, February 06, 2018
WELL WORK PERMIT
Vertical / Plugging

DUCKWORTH, STEVE WELL SERVICE
P O BOX 6871

CHARLESTON, WV 253620000

Re: Permit approval for 4
47-019-00312-00-00

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: 4
Farm Name: WESTERN POCAHONTAS
U.S. WELL NUMBER: 47-019-00312-00-00
Vertical / Plugging
Date Issued: 2/6/2018

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. Failure to adhere to the specified permit conditions may result in enforcement action.

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.

1) Date December 8, 2017
2) Operator's
Well No. Western Pocahontas #4
3) API Well No. 47-019 - 00312

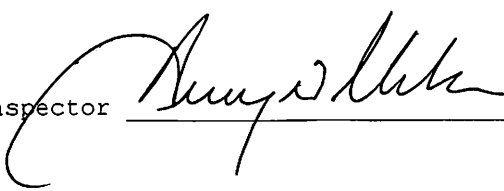
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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 2046' Watershed Boyd Branch of Paint Creek
District Plateau County Fayette 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 Terry Urban Name Steve Duckworth Well Service
Address P.O. Box 1207 Address 181 Sugarcamp Rd.
Clendenin, WV 25045 Gassaway, WV 26624

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

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

Work order approved by inspector 

Date 11-30-17 RECEIVED
Office of Oil and Gas

DEC 21 2017

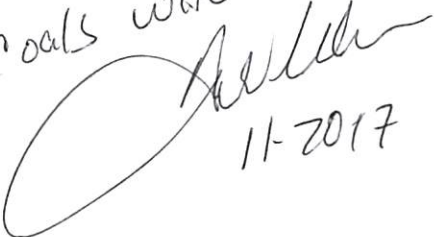
Plugging Procedure

Western Pocahontas #4

TD of 4-1/2" @ 1636'. *1650'*
 Estimated 4-1/2" TOC @ 1275' (calculated). *~1200'*
 TD of 7" @ 799'.
 Estimated 7" TOC @ circulated to surface.
 Perfs @ 1535'-1562'.

- 1-Circulate hole full of gel.
- 2-Pump 100' cmt plug (approx. 15 sx) across perfs from 1490'-1590'.
- 3-Gel to 1325'.
- 4-Cut 4-1/2" at free point (approx. 1275').
- 5-Pump 100' cmt plug (approx. 20 sx) across pipe cut from 1225'-1325'.
- 6-Gel to ~~850'~~ *899'*
- 7-Pump ~~100'~~ *300'* cmt plug (approx. ~~30~~ *90* sx) across bottom of 7" from ~~750'-850'~~ *899' - 599'*.
- 8-Gel to 100'.
- 9-Pump 100' cmt plug (approx. 30 sx) from 0'-100'.
- 10- Install monument with API #.

} Per WV 22-G-24 b
JMM
2/05/18

*Operator will cover all
 best elevation, casing cuts, fresh water
 & coals with cement*

11-2017

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 WV Department of
 Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

Quadrangle Beckley
Permit No. Fay 312

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company <u>Pilot Oil & 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>				
Location (waters) <u>Royd Branch</u>	Size			
Well No. <u>4</u> Elev <u>2046</u>	20-16			
District <u>Fayetteville</u> County <u>Fayette</u>	Cond.			
The surface of tract is owned in fee by _____	13-10"			
Address _____	9 5/8			
Mineral rights are owned by <u>Western Pocahontas Corp.</u> Address <u>Cleveland, Ohio</u>	8 5/8			
Drilling Commenced <u>7-18-77</u>	7	799	799	120 SX
Drilling Completed <u>7-29-77</u>	5 1/2			
Initial open flow _____ cu. ft. _____ bbls.	4 1/2	1636	1636	40 SX
Final production <u>1,300</u> cu. ft. per day _____ bbls.	3			
Well open _____ hrs. before test _____ RP.	2			
	Liners Used			

Well treatment details: Frac Ravencliff w/500 gals MGA, 600 bbls water Attach copy of cementing record.

Coal was encountered at 150, 312, 410, 450, 530 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Ravencliff Depth 1535-1541, 1557-1562

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	150		
Coal			150	152		
Sand & Shale			152	312		
Coal			312	313		
Sand & Shale			313	410		
Coal			410	412		
Sand			412	450		
Coal			450	452		
Shale			452	510		
Coal			510	513		
Shale			513	530		
Coal			530	532		
Sand			532	658		
Coal			658	660		
Sand & Shale			660	1223		
Sand			1223	1290		
Shale			1290	1498		
Sand			1498	1570		
Shale			1570	1650		

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OCT 20 1978
OIL & GAS DIVISION
DEPT. OF MINES

T.D. Good S/G in Ravencliff

(over)
* Indicates Electric Log tops in the remarks section.

00-11

BOND Release

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

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OIL & GAS DIVISION
DEPT. OF MINES
INSPECTOR'S WELL REPORT

Permit No. FAY 312

Oil or Gas Well GAS
(KIND)

Company	ADDRESS	FARM	Well No.	District	Drilling commenced	Drilling completed	Date shot	Initial open flow	Open flow after tubing	Volume	Cock pressure	Oil	Fresh water	Salt water	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS					
															Size								
<u>PILOT OIL GAS</u>	<u>CHARLESTON</u>	<u>WESTERN PACAHANTAS</u>	<u># 4</u>	<u>Fayetteville County FAY</u>	<u>7-18-77</u>	<u>8-5-77</u>	<u>1650</u>								16			Kind of Packer					
															13	<u>30</u>	<u>30</u>						
															10			Size of					
															8 1/2								
															6 3/4	<u>7"</u>	<u>799</u>	<u>799</u>	<u>Cemented</u> Depth set				
															5 3/16								
															3	<u>4 1/2</u>	<u>1636</u>	<u>1636</u>	Perf. top				
															2				Perf. bottom				
															Liners Used				Perf. top				
																			Perf. bottom				
															CASING CEMENTED	<u>7 1/2"</u>	<u>SIZE 7"</u>	No. FT	Date				
															NAME OF SERVICE COMPANY	<u>Dowell</u>							
															COAL WAS ENCOUNTERED AT	<u>64</u>	FEET	<u>12"</u>	INCHES				
																<u>369</u>	FEET	<u>24"</u>	INCHES	<u>450</u>	FEET	<u>24"</u>	INCHES
																<u>658</u>	FEET	<u>24"</u>	INCHES		FEET		INCHES

Drillers' Names _____

Remarks: CHALKED FAY 312 CO HAS RECLAIMED OIL
BUT WELL IS NOT HOLED UP YET

2-28-79
DATE

Larry H. Hays
DISTRICT WELL INSPECTOR

WW-4A
Revised 6-07

1) Date: 12/8/17
2) Operator's Well Number
Western Pocahontas #4
3) API Well No.: 47 - 019 - 00312

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>WPP LLC</u>	Name <u>N/A</u>
Address <u>5620 Irwin Rd.</u>	Address _____
<u>Huntington, WV 25705</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP LLC</u>
_____	Address <u>5620 Irwin Rd.</u>
_____	<u>Huntington, WV 25705</u>
(c) Name _____	Name _____
Address _____	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.

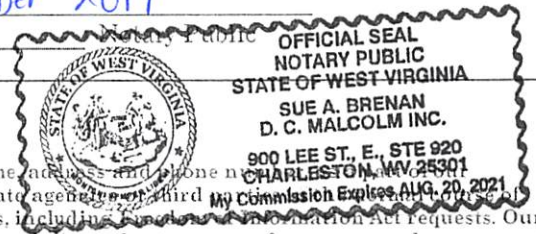
Well Operator Steve Duckworth Well Service
 By: Steve Duckworth
 Its: President
 Address 181 Sugarcamp Rd.
Gassaway, WV 26624
 Telephone 304-343-7142

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

My Commission Expires Aug. 20, 2021

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name and phone number, for regulatory duties. Your personal information may be disclosed to other State agencies or third party business or as needed to comply with statutory or regulatory requirements, including but not limited to 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 depprivacyofficer@wv.gov.



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WV Department of
Environmental Protection

SURFACE OWNER WAIVER

File: 18-09
WP # 4 - Plugging

Operator's Well
Number

Western Pocahontas #4

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 57th 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,


Signature

Date

Name

By

Its



Gregory F. Wooten
Vice President and Chief Engineer

Date 11/2/2018

Signature

Date

WW-4B

API No. 47-019-00312
Farm Name Western Pocahontas
Well No. Western Pocahontas #4

**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: 11/2/2018


By: Gregory F. Wooten
Its Vice President and Chief Engineer

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

ALL WELL EFFLUENT MUST BE CONTAINED IN TANK AND DISPOSED OF OFF-SITE, PROPERLY. JMM

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)

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

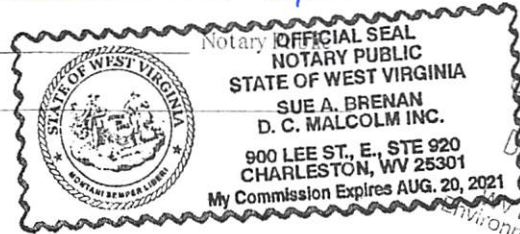
Company Official (Typed Name) Steve Duckworth

Company Official Title President

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

Sue A. Brenan

My commission expires Aug. 20, 2021



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Proposed Revegetation Treatment: Acres Disturbed 0.8 Ac. +/- Prevegetation pH 6.5

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.

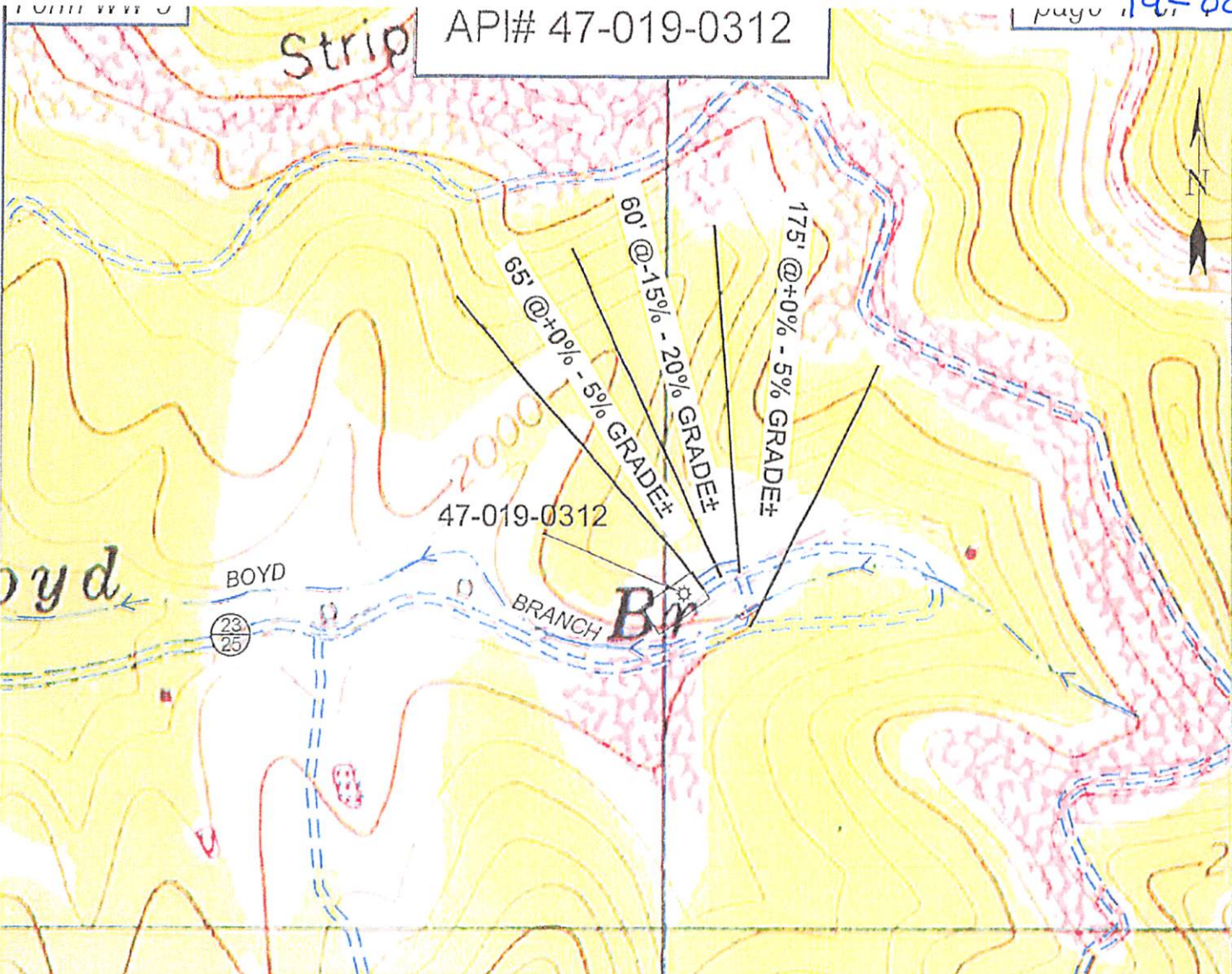
Plan Approved by: [Signature]

Comments: _____

Title: Inspector Ad & Cons Date: 11-20-17

Field Reviewed? Yes No

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WW Department of
Environmental Protection

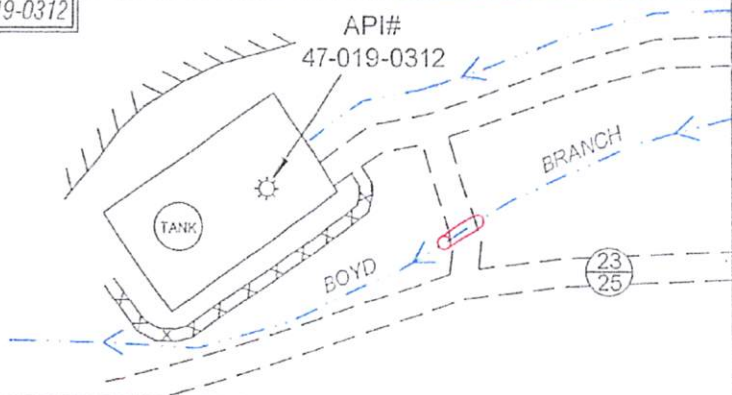


SCALE: 1"=500'



Detail Sketch for API# 47-019-0312

Not To Scale



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
- = APPROXIMATE POINT OF DISTURBANCE

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TOPO SECTION OF OAK HILL
7.5' TOPO QUADRANGLE

DRAWN BY	FILE NO.	DATE	CADD FILE:
MGF	8763	12-08-17	8763REC.dwg

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DEC 21 2017
WV Department of Environmental Protection

WW-7
8-30-06



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

API: 47-019-00312 WELL NO.: Western Pocahontas #4

FARM NAME: Western Pocahontas

RESPONSIBLE PARTY NAME: Steve Duckworth Well Service

COUNTY: Fayette DISTRICT: Plateau

QUADRANGLE: Oak Hill 7.5'

SURFACE OWNER: WPP LLC

ROYALTY OWNER: Western Pocahontas Corp.

UTM GPS NORTHING: 4193536.8

UTM GPS EASTING: 479038.8 GPS ELEVATION: 618.2 ^(2027')

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.

Matt J. Wilton
Signature

Project Manager
Title

12-13-2017
Date

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WV Department of
Environmental Protection