



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

Wednesday, February 07, 2018
WELL WORK PERMIT
Vertical / Plugging

DUCKWORTH, STEVE WELL SERVICE
P O BOX 6871

CHARLESTON, WV 253620000

Re: Permit approval for 2
47-081-00368-00-00

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: 2
Farm Name: WESTERN POCA CORP.
U.S. WELL NUMBER: 47-081-00368-00-00
Vertical / Plugging
Date Issued: 2/7/2018

Promoting a healthy environment.

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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 #2
3) API Well No. 47-081 - 00368

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 2121' Watershed Arnold Branch of Paint Creek
District Town County Raleigh Quadrangle Eccles 7.5'

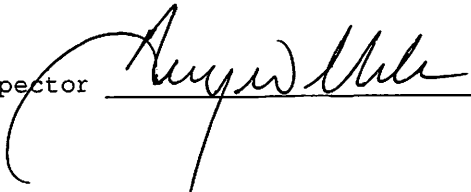
6) Well Operator Steve Duckworth Well Service 7) Designated Agent Steve Duckworth
Address 181 Sugarcamp Rd. Address 181 Sugarcamp Rd.
Gassaway, WV 26624 Gassaway, WV 26624

8) Oil and Gas Inspector to be notified Name GARY KENNEDY
Address _____
9) Plugging Contractor Name Steve Duckworth Well Service
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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Environmental Protection

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 #2

TD of 4-1/2" @ 3348'.
 Estimated 4-1/2" TOC @ 2500' (calculated).
 TD of 8-5/8" @ 1630'.
 Estimated 8-5/8" TOC @ circulated to surface.
 Perfs @ 2694'-2708'.

- 1-Circulate hole full of gel.
- 2-Pump 100' cmt plug (approx. 15 sx) across perfs from 2650'-2750'.
- 3-Gel to 2550'.
- 4-Cut 4-1/2" at free point (approx. 2500').
- 5-Pump 100' cmt plug (approx. 20 sx) across pipe cut from 2450'-2550'.
- 6-Gel to 1680'.
- 7-Pump 100' cmt plug (approx. 30 sx) across bottom of 8-5/8" from 1580'-1680'.
- 8-Gel to 100'.
- 9-Pump 100' cmt plug (approx. 30 sx) from 0'-100'.
- 10- Install monument with API #.

PER WV CODE
 OK JMM

90 SX OF EXPANDING CEMENT 1730' - 1430' PER WV CODE 22-G-24 b. JMM

Operator to
 cover all perfs, elevation
 coal & fresh water & casing cuts
 with cement

[Signature]
 11-20-17

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OG-10
Rev. - 9-71



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Eccles
Permit No. Ral 368

Company <u>Pilot Oil & Gas Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Slk.)
Address <u>1006 Commerce Sq., Charleston, W. Va.</u>	Size			
Farm <u>Western Pocahontas</u> Acres <u>6200</u>	20-16			
Location (waters) <u>Arnold Branch</u>	Cond.			
Well No. <u>2</u> Elev. <u>2131</u>	1.3-10"	30°	30°	Surface
District <u>Town</u> County <u>Raleigh</u>	2 5/8			
The surface of tract is owned in fee by _____	8 5/8	1630'	1630'	Surface
<u>Western Pocahontas Corp.</u>	7			
Address <u>Cleveland, Ohio</u>	5 1/2			
Mineral rights are owned by <u>Western Pocahontas</u>	4 1/2	3348'	3348'	17 1/2 SX
Address _____	3			
Drilling Commenced <u>September 1, 1976</u>	2	2700'	2700'	
Drilling Completed <u>September 7, 1976</u>	Liners Used			
Initial open flow <u>60,000</u> cu. ft. _____ bbl.				
Final production <u>400,000</u> cu. ft. per day _____ bbl.				
Well open <u>4</u> hrs. before test <u>700</u> RP.				

Well treatment details:

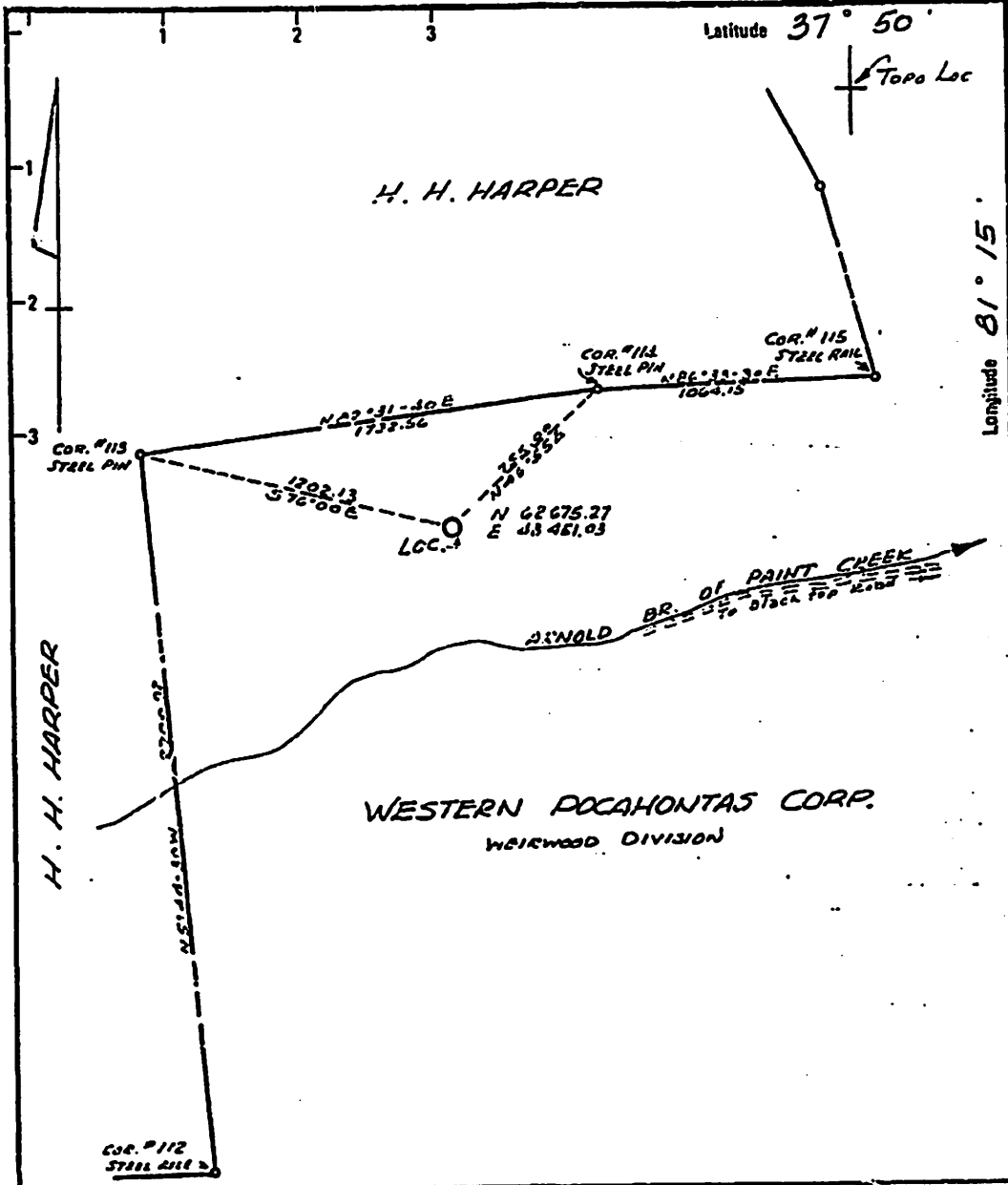
Attach copy of cementing record.

Coal was encountered at 443 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Lime Depth 2694-2700

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	343		
Sand & Shale			343	443		
Coal			443	447		
Sand & Shale			447	1372		
Sand			1372	1449		
Sand & Shale			1449	1580		
Sand			1580	1623		
Sand & Shale			1623	2500		
Lime			2500	2536		
Shale			2536	2582		
Lime			2582	2962		
Sand & Shale			2962	3172		
Sand			3172	3218		
Sand & Shale			3218	3577		
Sand			3577	3630		
Sand & Shale			3630	3652		
Total Depth				3652		

(over)

* Indicates Electric Log tops in the remarks section.



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN 2000
 Source of Elevation WESTMORELAND COAL CO B.M. SPIKE IN 6" MARK
SOUTH SIDE FUEL ARNOLD BR. E1. 1368.71
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company PILOT OIL & GAS
 Address 106 Commerce Sq., CHARLESTON, W. Va.
 Farm WESTERN POCAHONTAS CORP.
 Tract _____ Acres 6200 Lease No. _____
 Well (Farm) No. _____ Serial No. _____
 Elevation (Spot Level) 2121.0
 Quadrangle ECCLES
 County RALEIGH District TOWN
 Engineer T. G. A. Spivey
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 8-30-76 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. RAL-368
 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.
47-081

81-00368P

WW-4A
Revised 6-07

1) Date: 12/8/17
2) Operator's Well Number
Western Pocahontas #2
3) API Well No.: 47 - 081 - 00368

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>Eccles LLC</u>	Name <u>N/A</u>
Address <u>300 Capitol St., Suite 1401</u>	Address _____
<u>Charleston, WV 25301</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Eccles LLC</u>
_____	Address <u>300 Capitol St., Suite 1401</u>
_____	<u>Charleston, WV 25301</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>	_____

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Office of Oil and Gas

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

DEC 21 2017

- (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.

WV Department of Environmental Protection

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

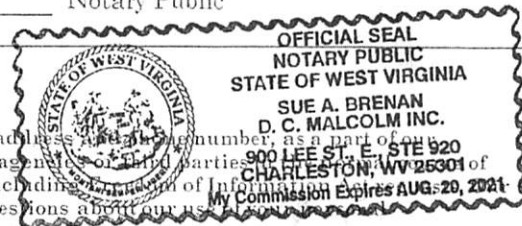
Subscribed and sworn before me this 20th day of December 2017

Notary Public

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 its regulatory duties. Your personal information may be disclosed to other State agencies or third parties for business or as needed to comply with statutory or regulatory requirements, including the Freedom of Information Act. The 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.



WW-9
(5/16)

API Number 47 - 081 - 00368
Operator's Well No. Western Pocahontas #2

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) Arnold Branch of Paint Creek Quadrangle Eccles 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 OFF-SITE, 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

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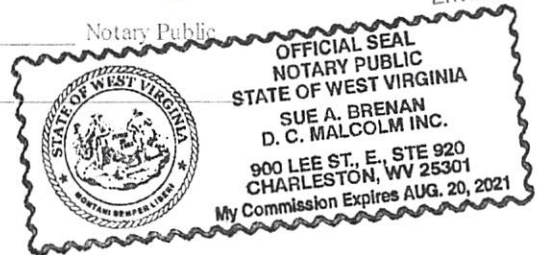
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Environmental Protection

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

Neil Abraham

My commission expires Aug. 20, 2021



Proposed Revegetation Treatment: Acres Disturbed 0.85 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: *Henry W. Laska*

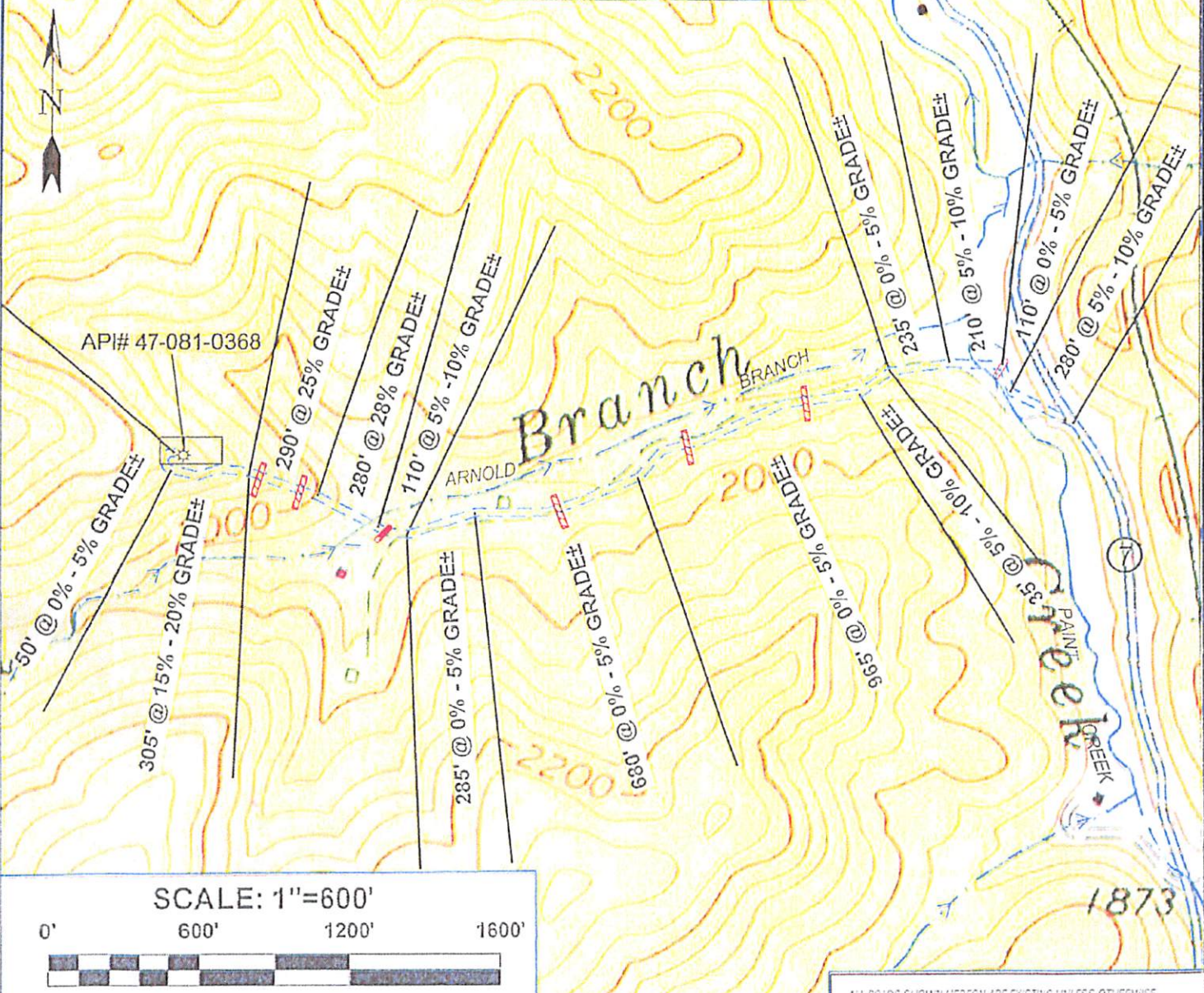
Comments: _____

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Title: Inspector Oil & Gas

Date: 11-20-17

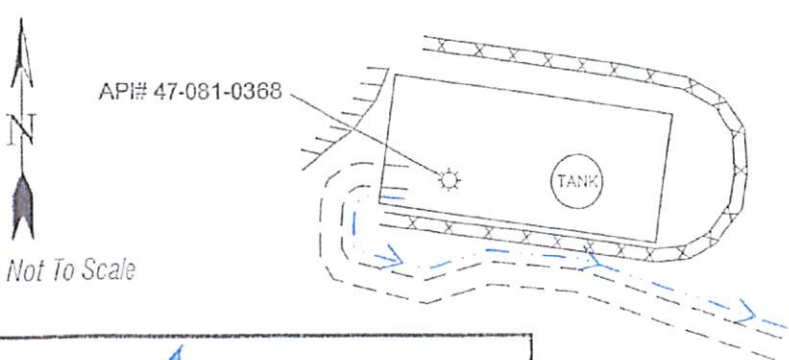
Field Reviewed? Yes No



SCALE: 1"=600'



Detail Sketch for API# 47-081-0368



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. REGULATIONS. 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 OF THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THE PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

- = EXISTING CULVERT
- = PROPOSED CULVERT 15' MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING
- = APPROXIMATE LIMITS OF DISTURBANCE

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www.slsenv.com

TOPO SECTION OF ECCLES
7.5' TOPO QUADRANGLE

DRAWN BY	FILE NO.	DATE	CADD FILE:
MGF	8760	12-08-17	8760REC.dwg

