



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

Thursday, March 28, 2019

WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

ALLIANCE PETROLEUM CORPORATION
101 MCQUISTON DR.

JACKSON CENTER, PA 16133

Re: Permit approval for WVC 510557
47-047-02170-00-00

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

Operator's Well Number: WVC 510557
Farm Name: POCAHONTAS LAND CORP.
U.S. WELL NUMBER: 47-047-02170-00-00
Coal Bed Methane Well Plugging
Date Issued: 3/28/2019

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

- 1) Date February 13, _____, 2019
- 2) Operator's
Well No. 510557 WWC 557
- 3) API Well No. 47-047 - 02170 P

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 CBM / Liquid injection ____ / Waste disposal ____ /
(If "Gas, Production ____ or Underground storage ____) Deep ____ / Shallow
- 5) Location: Elevation 1678 Watershed Panther Creek
District Sandy River County McDowell Quadrangle Patterson
- 6) Well Operator Alliance Petroleum Corporation, LLC 7) Designated Agent David Dean
Address 1997 Old Weston Rd. Address 1997 Old Weston Rd.
Buckhannon, WV. 26201 Buckhannon, WV. 26201
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name R and J Well Service
Address 66 Old Church Lane Pipestem, Wv. 25979 Address 1087 Raccoon Rd.
304-382-8402 Hueysville, KY. 41640

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

RECEIVED
Office of Oil and Gas

FEB 18 2019

WV Department of
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 _____

1) Date January 10, 2019
2) Operator's Well No. ~~504622~~ ~~Leah B. Rogers~~ ~~516557~~ **03/29/2019**
3) API Well No. 47-047 - 02170

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 CBM / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production" or "Underground storage") Deep ___ / Shallow

5) Location: District 1678 Well Name Panther Creek
County Sandy River County McDowell Township Patterson

6) Applicant: Diversified Southern Production Conley Smith
100 Diversified Way 100 Diversified Way, P O Box 3878
Pikeville, KY Pikeville, KY

7) Applicant's Representative: Gary Kennedy R and J Well Service
Address: 66 Old Church Lane Pipestem, Wv. 25979 Address: 1087 Raccoon Rd.
304-382-8402 Hueysville, KY. 41640

8) Work Order: The work order for this permit is as follows:
See attachment for details and procedures.

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

Work order approved by inspector *Gary Kennedy* Date 1/26/19

PLUGGING PROGNOSIS

510557

West Virginia, McDowell County

API # 47-047-02170

Casing Schedule

13 3/8" csg @ 37'. Cemented to surface

7" csg @ 550' Cemented to surface w/ 119.2 Cu Ft

4 1/2" csg @ 1849' Cemented w/ 266 Cu Ft. (Estimated TOC surface)

2" tbg @ 1736' (5/8" rods)

Completion

5 stage completion

- Stage 1 Completion: 1534' to 1651' (32H)
- Stage 2 Completion: 1301' to 1487' (37H)
- Stage 3 Completion: 1188' to 1268' (38H)
- Stage 4 Completion: 936' to 1134' (37H)
- Stage 5 Completion: 634' to 872' (36H)

Fresh Water: 48', 50', and 123'

Saltwater: 350' and 582'

Coal: 20'-21', 23'-25', 63'-65', 112'-118', 118'-123', 794'-797', 834'-837', 867'-870', 968'-969', 1128'-1132', 1248'-1252', 1304'-1308'

1. Notify inspector, Gary Kennedy @ 304-382-8402, 48 hrs. prior to commencing operations.
2. Record Tbg/Csg Pressures
3. TOOH w/ 5/8" rods
4. TOOH w/ 2 3/8" tbg. Tally and inspect tbg.
 - a. If unable to pull tbg. Free point tbg and report free point depth. Perforate and pull tbg
5. THH w/ tbg to TD.
 - a. Set expanding cement plug from 600' to 1849'
 - b. TOOH w tbg
6. THH w/ tbg to 600'
 - a. Set expanding cement plug from surface to 600'
 - b. TOOH w tbg
7. Erect monument with API#, date plugged, & company name
8. Reclaim location and road to WV-DEP specifications.

601
Spicer

**State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work**

API# 4704702170

Form Name: Production Land Corp. Well Number: 4704702170
 Location: Elevation: 1,012' Ordinance: A. Verdict
 District: Seema Road County: M. Boone
 Latitude: 39° 58' 30" N Longitude: 81° 01' 52" W

Company: Equitable Production Company
 1710 Pennsylvania Avenue Charleston, WV 25328
 Agent: Todd Tetrick
 Inspector: Barry Stallings
 Permit Issued: 06/13/2006
 Well Work Commenced: 11/15/2006
 Well Work Completed: 01/10/2007
 Verbal Plugging: _____
 Permission granted by: _____
 Rotary Rig Cable Rig _____
 Total Depth: 1,882'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cubic Ft
13 3/8	37	37	
7	550	550	119.20
4 1/2	1,849	1,849	266.00
2 3/8		1,736	

Water Encountered

Type	From
Fresh water	20' @ 48'
Fresh water	37' @ 10'
Fresh water	5' @ 120'
S&S Water	7' @ 2' @ 110'
Oil/Gas	1126' - 1246' - 1304' - 1367'

Coal & Gas Shales

Type	From
Coal	20'-21', 23'-25', 63'-65'
Coal	112'-118', 118'-123', 794'-797'
Coal	834'-837', 867'-870', 968'-969'
Coal	1126'-1246', 1246'-1304', 1367'

Open Flow Data
 Producing Formation: Poca # 3,4,5, Leader Poca #7,9
 Pay Zone Depth (ft): See attached for details
 Little tree creek/ru name: Beckley/Welch Sewell ASB/No Name
 Gas: Initial Open Flow 0 MCF 11/15/06 Date
 Final Open Flow 60 MCF 01/10/2007 Date
 Time of open flow between initial and final tests 0 hours
 Static Rock Pressure 200 after 0 hours
 Second Producing Formation: _____ Pay Zone Depth (ft): _____
 Gas: Initial Open Flow _____ MCF _____ Date
 Final Open Flow _____ MCF _____ Date
 Time of open flow between initial and final tests _____ hours
 Static Rock Pressure _____ after _____ hours

NOTE: On back of this form put the following
 1) Details of Perforated intervals, fracturing or stimulating, physical change etc.
 2) The well log, a systematic detailed geological record of all formations including coal encountered in the well bore

By: Todd Tetrick
 For Equitable Production Company

[Handwritten signature]

McDon 2/17

47-047-02170P
03/29/2019

Well Number 510557

Equitable Production Company
WR-35 Completion Report - Attachment
Well Treatment Summary

API # 4704702170

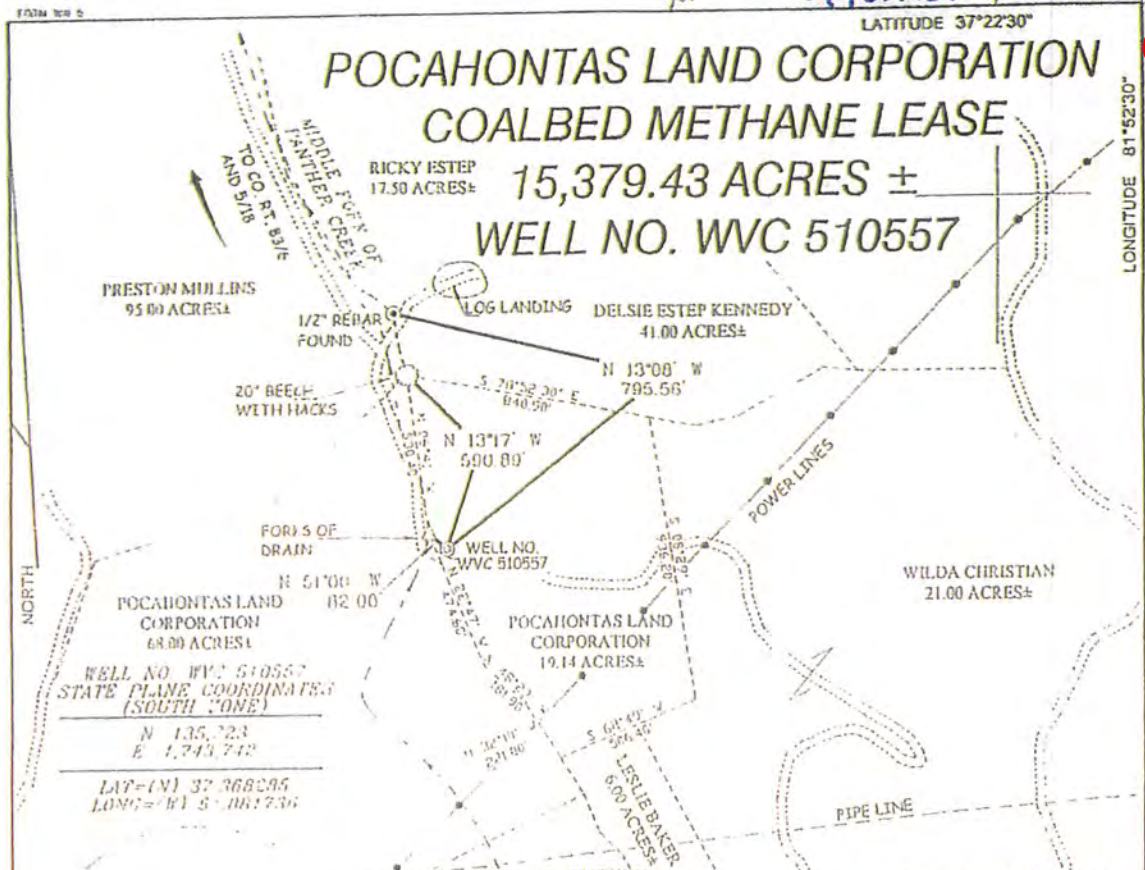
Stage1		Stage2		Stage3		Stage4		Stage5	
Date	12/30/2006	Date	12/30/2006	Date	12/30/2006	Date	12/30/2006	Date	12/30/2006
FracTyp	70Q Foam	FracTyp	70Q Foam	FracTyp	70Q Foam	FracTyp	70Q Foam	FracTyp	70Q Foam
Zone	Poc # 3,4,5, Lender	Zone	Poc # 7,9	Zone	Little fire creek/no name	Zone	Beckley/Welch	Zone	Sewell A&B/No Name A&B
# of Perfs	32	# of Perfs	32	# of Perfs	38	# of Perfs	37	# of Perfs	36
From/To	1,534- 1,651	From/To	1,304- 1,487	From/To	1,188- 1,268	From/To	936- 1,134	From/To	634- 872
BD Press	2,300	BD Press	3,600	BD Press	2,410	BD Press	2,994	BD Press	2,759
ATP Psi	2,653	ATP Psi	0	ATP Psi	3,397	ATP Psi	2,469	ATP Psi	2,518
Avg Rate	10	Avg Rate	0	Avg Rate	40	Avg Rate	39	Avg Rate	28
Max Press Psi	2,899	Max Press Psi	0	Max Press Psi	3,634	Max Press Psi	2,986	Max Press Psi	2,878
ISIP Psi	1,559	ISIP Psi	0	ISIP Psi	0	ISIP Psi	0	ISIP Psi	1,554
10min SIP	1,519 5 min	10min SIP	0 5 min	10min SIP	0 5 min	10min SIP	0 5 min	10min SIP	759 5 min
Frac Gradient	0.00	Frac Gradient	0.00	Frac Gradient	0.00	Frac Gradient	0.00	Frac Gradient	0.00
Sand Proppant	0.57	Sand Proppant	0.00	Sand Proppant	45.00	Sand Proppant	66.00	Sand Proppant	42.00
Water lb	794	Water lb	0	Water lb	172	Water lb	233	Water lb	150
SCF N2	115,000	SCF N2	0	SCF N2	370,000	SCF N2	315,000	SCF N2	270,000
Acid gal	700 gal 10%MSA	Acid gal	0 gal	Acid gal	700 gal 10%MSA	Acid gal	700 gal 10%MSA	Acid gal	800 gal 10%MSA
Formation Name		Birth To	Death	Birth To	Death	Birth To	Death	Birth To	Death
Sand & Shale		0	50		0		0		0
Coal		50	71		50		50		50
Sand & Shale		71	210		71		210		210
Coal		210	250		210		250		250
Sand & Shale		250	57		250		380		380
Coal		57	63		57		63		63
Sand & Shale		63	65		63		65		65
Coal		65	118		65		118		118
Sand & Shale		118	123		118		123		123
Coal		123	124		123		124		124
Sand & Shale		124	203		124		203		203
Open Mine		203	268		203		268		268
Lost Circulation		268	368		268		368		368
Sand & Shale		368	547		368		547		547
Coal		547	794		547		794		794
Sand & Shale		794	797		794		797		797
Coal		797	834		797		834		834
Sand & Shale		834	837		834		837		837
Coal		837	867		837		867		867
Sand & Shale		867	870		867		870		870
Coal		870	924		870		924		924
Sand & Shale		924	940		924		940		940
Coal		940	964		940		964		964
Sand & Shale		964	968		964		968		968
Coal		968	1,128		968		1,128		1,128
Sand & Shale		1,128	1,132		1,128		1,132		1,132
Beckley		1,132	1,248		1,132		1,248		1,248
Sand & Shale		1,248	1,252		1,248		1,252		1,252
Fire Creek		1,252	1,304		1,252		1,304		1,304
Sand & Shale		1,304	1,308		1,304		1,308		1,308
Lower Fire Creek		1,308	1,481		1,308		1,481		1,481
Sand & Shale		1,481	1,484		1,481		1,484		1,484
Poc # 7		1,484	1,533		1,484		1,533		1,533
Sand & Shale		1,533	1,537		1,533		1,537		1,537
Coal		1,537	1,540		1,537		1,540		1,540
Sand & Shale		1,540	1,541		1,540		1,541		1,541
Beckley		1,541	1,593		1,541		1,593		1,593
Sand & Shale		1,593	1,604		1,593		1,604		1,604
Poc # 9		1,604	1,636		1,604		1,636		1,636
Sand & Shale		1,636	1,654		1,636		1,654		1,654
Coal		1,654	1,660		1,654		1,660		1,660
Sand		1,660	1,713		1,660		1,713		1,713
Square Jim		1,713	1,715		1,713		1,715		1,715
Sand & Shale & Red Ho		1,715	1,880		1,715		1,880		1,880

Gas Tests
1000 1000

47-047-02170C P

4104101

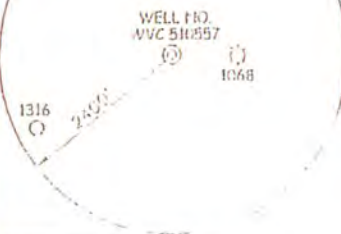
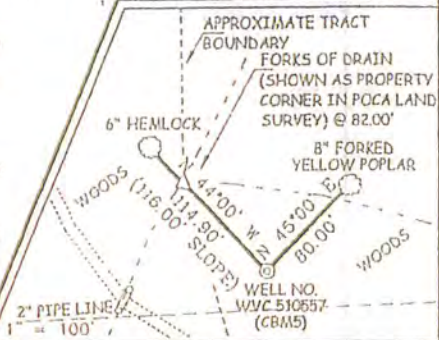
03/29/2019



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE 11A0'27
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 11/17/05.
3. TRACT BOUNDARY SHOWN HEREON TAKEN FROM A POCAHONTAS LAND CORPORATION MAP AND FIELD NOTES DATED APRIL 28, 1952 SUPPLIED TO SLS BY EQUITABLE PRODUCTION COMPANY
4. SURFACE OWNER AND ADJACENT INFORMATION TAKEN FROM THE ASSessor AND COUNTY CLERK RECORDS OF McDOWELL COUNTY IN OCTOBER, 2005
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

REFERENCES



THIS PLAT 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 DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. *Gregory A. Smith*

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE NOVEMBER 28, 20 05
 OPERATORS WELL NO. WVC 510557
 API WELL NO. 47-047-02170C
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 5805PS10557 (202-6)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1"=500'

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

WELL TYPE:	OIL	GAS	<input checked="" type="checkbox"/> LIQUID INJECTION	WASTE DISPOSAL	IF "GAS" PRODUCTION	<input checked="" type="checkbox"/> STORAGE	DEEP	SHALLOW	<input checked="" type="checkbox"/>	
LOCATION:	ELEVATION	<u>1,677</u>	WATERSHED	<u>MIDDLE FORK OF PANTHER CREEK</u>	DISTRICT	<u>SANDY RIVER</u>	COUNTY	<u>McDOWELL</u>	QUADRANGLE	<u>PATTERSON 7 S</u>
SURFACE OWNER	<u>POCAHONTAS LAND CORPORATION</u>			ACREAGE	<u>19.14</u>					
ROYALTY OWNER	<u>PENN VIRGINIA OIL & GAS CORPORATION</u>			LEASE ACREAGE	<u>15,279.43</u>					
PROPOSED WORK:	DRILL	<input checked="" type="checkbox"/>	CONVERT	<input type="checkbox"/>	DRILL DEEPER	<input type="checkbox"/>	REDRILL	<input type="checkbox"/>	FRACTURE OR STIMULATE	<input checked="" type="checkbox"/>
FORMATION:	PERFORATE NEW FORMATION	<input type="checkbox"/>	PLUG AND ABANDON	<input type="checkbox"/>	CLEAN OUT AND REPLUG	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>		
PHYSICAL CHANGE IN WELL (SPECIFY)				TARGET FORMATION	<u>POCAHONTAS #1</u>					
				ESTIMATED DEPTH	<u>2.15'</u>					

WELL OPERATOR EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT STEPHEN G. PERDUE
 ADDRESS: 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME PERMIT

Received Office of Oil and Gas JUL 13 2016

WW-4A
Revised 6-07

1) Date: 02/13/2019
2) Operator's Well Number
510557 Pocahontas Land Corp WVC 557

3) API Well No.: 47 - 047 - 02170

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>Pocahontas Land Corp</u>	Name <u>None</u>
Address <u>P.O. Box 1517</u>	Address _____
<u>Bluefield, WV 24701</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pocahontas Land Corp</u>
_____	Address <u>P.O. Box 1517</u>
(c) Name _____	<u>Bluefield, WV 24701</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>65 Old Church Lane</u>	Name <u>Alpha Natural Resources</u>
<u>Pipestem, WV 25979</u>	Address <u>208 Business Street</u>
Telephone <u>304-382-8407</u>	<u>Beckley WV 25801</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-1B, 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 reverse 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 Alliance Petroleum Corporation, LLC
 By: David Dean
 Title: Executive VP Production
 Address: 1997 Old Weston Rd
Buckhannon, WV 26201
 Telephone: 304-471-2319

Subscribed and sworn before me this 15th day of February 2019
Harisel E. McCauley Notary Public
 My Commission Expires November 12, 2019

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 depprivacyofficer@wv.gov.

WW-9
(5/16)

47-047-02170CP

API Number 47 - 047 - 02170
Operator's Well No. 03/29/2019

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

Operator Name Diversified Southern Production OP Code _____

Watershed (HUC 10) Panther Creek Quadrangle Patterson

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 *[Signature]*

If so, please describe anticipated pit waste: Formation Fluids

Will a synthetic liner be used in the pit? Yes No If so, what ml? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (LIC Permit Number 2004701511002)
- Reverse (if API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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 offsite, 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 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 Conley Smith

Company Official (Typed Name) Conley Smith

Company Official Title Regional Land Manager

Subscribed and sworn before me this 22nd day of January, 20 19

[Signature] Notary Public

My commission expires 8-18-2021

Proposed Revegetation Treatment: Acres Disturbed 1+/- Prevegetation pH

Line 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	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.

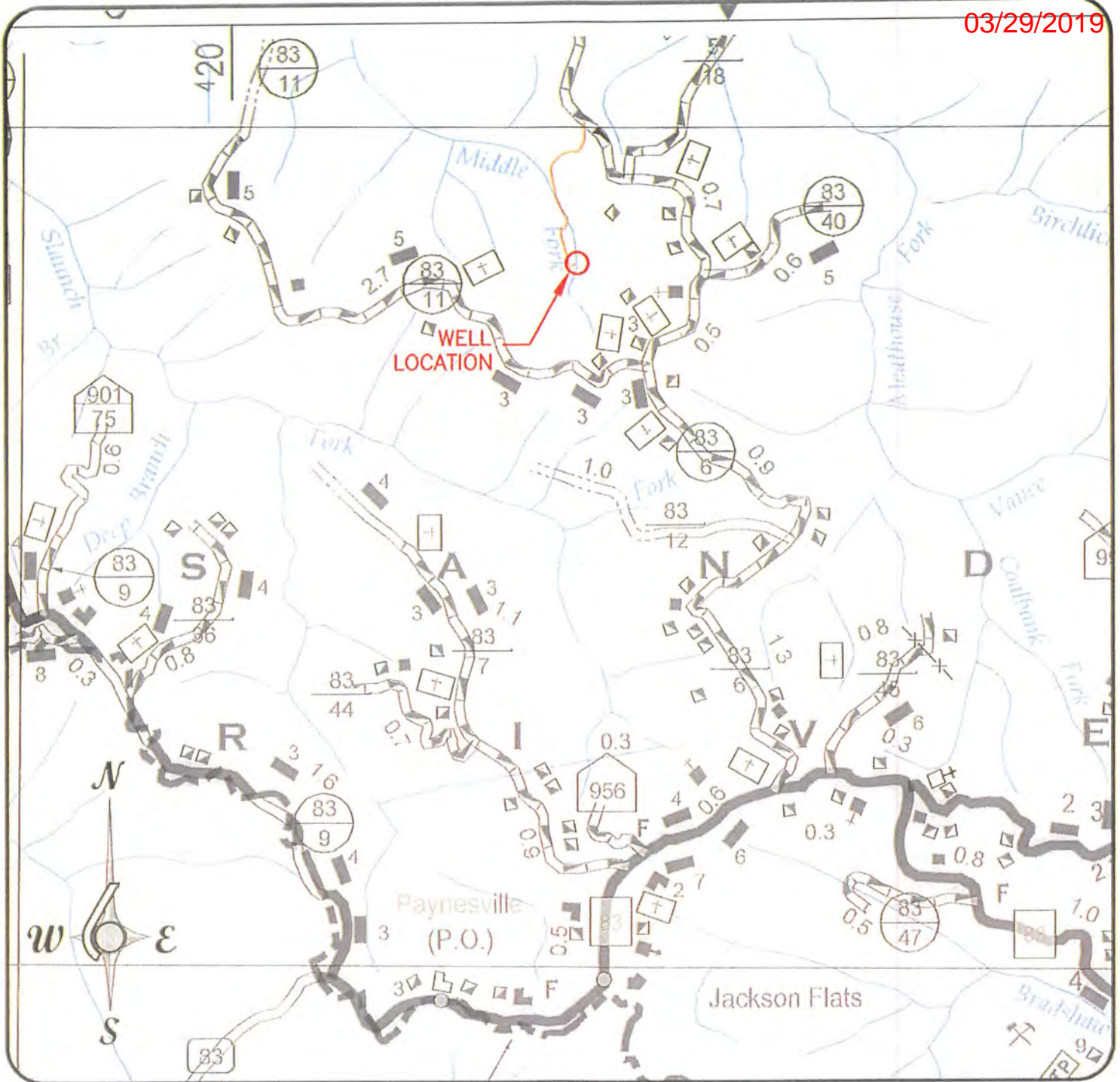
Plan Approved by:



Comments:

Title: Inspector Date: 1/26/19

Field Reviewed? () Yes () No



API: 47-047-02170

Well: POCAHONTAS LAND CORP.

Well # 510557

Topo Quad: Patterson 7.5'
 County: McDowell, WV
 District: Sandy River
 Scale: 1" = 1/2 Mile
 Date: January 14, 2019
 Work Order: GSE1070



NAD 27 S Zone N 135,320.15 E 1,743,757.64	NAD 83 S Zone N 135,363.39 E 1,712,310.55
UTM N83 Zone 17 N 4,136,104.759m E 421,944.592m	LAT: 37.368390 LONG: -81.881525 ELEV: 1678.51'



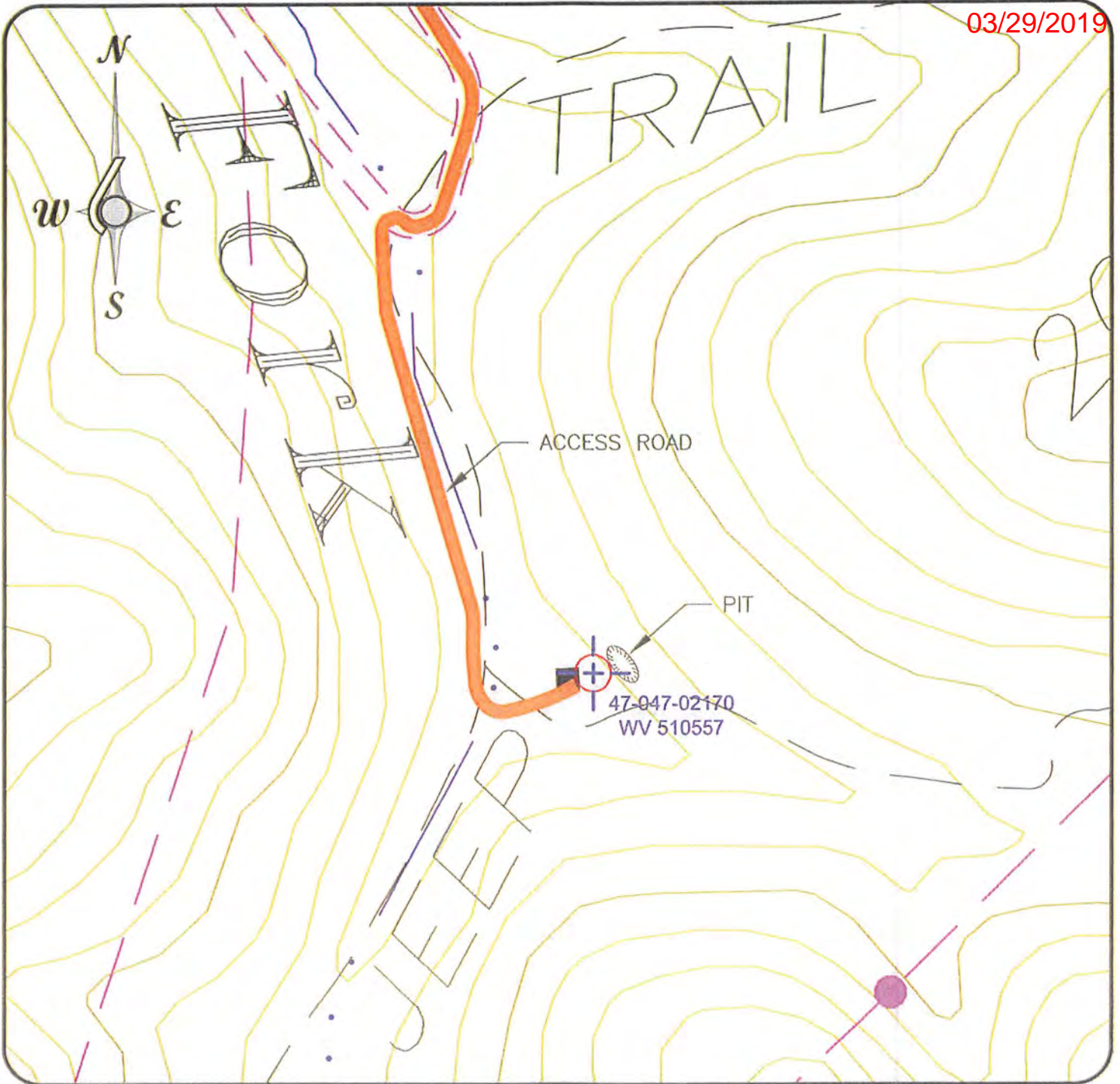
CONSULTING ENGINEERS

312 TENTH STREET PAINTSVILLE, KY (606) 789-5961 259 NORTH ARNOLD AVENUE PRESTONSBURG, KY (606) 886-7884

HIGHWAY



DIVERSIFIED GAS & OIL CORPORATION



API: 47-047-02170

Well: POCAHONTAS LAND CORP.

Well # 510557

Topo Quad:	Patterson 7.5'
County:	McDowell, WV
District:	Sandy River
Scale:	1"=200'
Date:	January 11, 2019
Work Order:	GSE1070



NAD 27 S Zone	NAD 83 S Zone
N 135,320.15	N 135,363.39
E 1,743,757.64	E 1,712,310.55
UTM N83 Zone 17	LAT: 37.368390
N 4,136,104.759m	LONG: -81.881525
E 421,944.592m	ELEV: 1678.51'



CONSULTING ENGINEERS

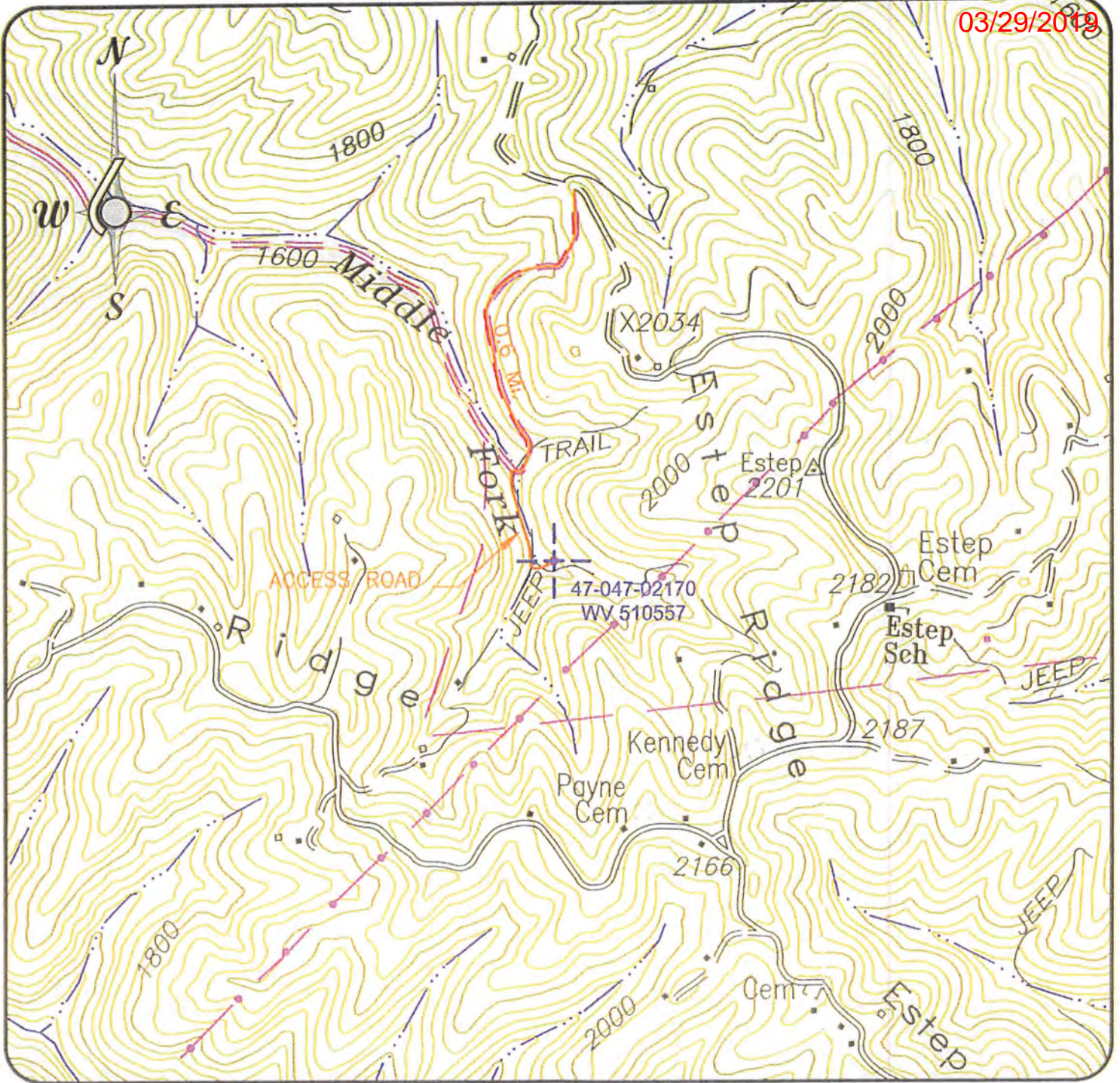
312 TENTH STREET PAINTSVILLE, KY (606) 789-5961 258 NORTH ARNOLD AVENUE PRESTONSBURG, KY (606) 806-7884

PIT MAP



DIVERSIFIED GAS & OIL CORPORATION

03/29/2019



API: 47-047-02170

Well: POCAHONTAS LAND CORP.

Well # 510557

Topo Quad: Patterson 7.5'
 County: McDowell, WV
 District: Sandy River
 Scale: 1"=1000'
 Date: January 11, 2019
 Work Order: GSE1070



NAD 27 S Zone N 135,320.15 E 1,743,757.64	NAD 83 S Zone N 135,363.39 E 1,712,310.55
UTM N83 Zone 17 N 4,136,104.759m E 421,944.592m	LAT: 37.368390 LONG: -81.881525 ELEV: 1678.51'



CONSULTING ENGINEERS

312 TENTH STREET, FAYTSVILLE, KY (606) 789-5961 | 255 NORTH ARNOLD AVENUE, PRESTONSBURG, KY (606) 886-7884

TOPO



DIVERSIFIED GAS & OIL CORPORATION

WW-7
8-30-06



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

API: 47-047-02170 WELL NO.: 510557
FARM NAME: Pocahontas Land Corp. WVC 510557
RESPONSIBLE PARTY NAME: Alliance Petroleum Corporation, LLC
COUNTY: McDowell DISTRICT: Sandy River
QUADRANGLE: Patterson
SURFACE OWNER: Pocahontas Land Corporation
ROYALTY OWNER: Pocahontas Land Corporation
UTM GPS NORTHING: 4,136,104.759m
UTM GPS EASTING: 421,944.592m GPS ELEVATION: 511.610m (1678')

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 X: Post Processed Differential

Real-Time Differential X

- 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.

Dewey L. Bocook, Jr.

Digital Signature
by Dewey L. Bocook, Jr.
on 03/29/2019 at 10:00 AM
West Virginia Department of Environmental Protection
Office of Oil and Gas

LLS # 1054

1/14/2019

Signature

Title

Date