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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](http://www.dep.wv.gov)

Tuesday, April 2, 2019

WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

ALLIANCE PETROLEUM CORPORATION  
101 MCQUISTON DR.

JACKSON CENTER, PA 16133


Re: Permit approval for 506504  
47-047-01595-00-00

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: 506504  
 Farm Name: KENNEDY, CLARK & PAUL  
 U.S. WELL NUMBER: 47-047-01595-00-00  
 Coal Bed Methane Well Plugging  
 Date Issued: 4/2/2019

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47-047-0159SP

04/05/2019

## 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

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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 January 21, 2019 04/05/2019  
2) Operator's  
Well No. 506504 Kennedy 6504  
3) API Well No. 47-047-01595

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 XCBM / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(1) Gas, Production \_\_\_ or Underground storage \_\_\_ / Deep \_\_\_ / Shallow X

5) Location: Block/lot 1557 65 Watershed Bradshaw Creek of Dry Fork  
Sandy River County McDowell Township Bradshaw

6) Applicant: Diversified Southern Production Operator: Conley Smith  
100 Diversified Way 100 Diversified Way, P.O. Box 2878  
Pikeville, KY Pikeville, KY

7)井主 (井主) 姓名: Gary Kennedy  
地址: 66 Old Church Lane Pipestem, Wv. 25979  
304-382-8402

井主 (井主) 姓名: R and J Well Service  
地址: 1087 Raccoon Rd.  
Hueysville, KY. 41640

井主 (井主): The work order for the manner of plugging this well 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 1/20/19

PLUGGING PROGNOSIS

506504

West Virginia, McDowell County

API # 47-047-01595

Casing Schedule

- 12 3/4" csg @ 31' Cemented to surface
- 9 5/8" csg @ 350' Cemented to surface w/ 148 Cu Ft
- 4 1/2" csg @ 1349' Cemented w/ 290 Cu Ft. (Estimated TOC at 75')
- 2" tbg @ 1318' (5/8" rods)

Completion

- Upper Coal Completion: 615' to 758' (1311)
- 2nd Coal Completion: 994' to 1076' (1211)
- Lower Coal Completion: 1161' to 1311' (1311)

Fresh Water: None Reported

Saltwater: None Reported

Coal: 615'-622', 732'-735', 757'-758', 994'-999', 1041'-1042', 1074'-1077', 1161'-1163', 1209'-1214', 1257'-1258', 1310'-1312'

1. Notify inspector, Gary Kennedy 304-382-8402, 48 hrs. prior to commencing operations.
2. Record tbg. Csg pressure
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 1D.
  - a. Set expanding cement plug from 750' to 1349'
  - b. TOOH w/ tbg
6. THH w/ tbg to 750'.
  - a. Set expanding cement plug from 300' to 750'
  - b. TOOH w/ tbg.
7. Free point 4 1/2" csg. (Estimated ~~75'~~) TOOH w/ 4 1/2" csg.
8. THH w/ tbg to ~~---~~ 450'.
  - a. Set expanding cement plug from surface to ~~---~~ 450'.
9. Erect monument with API, date plugged, & company name.
10. Reclaim location and road to WV-DLP specifications.

Gel spacer →

JMM

GEL SPACER BETWEEN ALL PLUGS.

*[Handwritten signature]*





EQUITABLE PRODUCTION COMPANY  
WR-35 COMPLETION REPORT - Attachment  
Well Treatment Summary

Well: WV-506504

API# 47-047-01595

Date	5/31/2002	5/31/2002	5/31/2002			
Type Frac	68/70 Q	68/70 Q	68/70 Q			
Acid, N <sub>2</sub> , Foam, Water	Foam	Foam	Foam			
Zone Treated	Poca 3,2,1 Squire Jim	Poca 6,5,4	Beckley Firecreek L Firecreek			
# Perfs	14	12	13			
From - To:	1161.5 1311.75	994.5-1076.5				
BD Pressure @ psi	3479	3202	3499			
ATP psi	3358	3155	3223			
Avg. Rate, B=B/M, S= SCF/M	13.6 B	21 D	19.4 B			
Max. Treat Press psi	4218	3858	3761			
ISIP psi	2309	2442	2247			
Frac Gradient	2.30	2.78	3.74			
10 min. S-I Pressure	1761	1389	1400			
	5 min	5 min	5 min			
Material Volume						
Sand-sts	0	80	85			
Water-bbl	195	300	290			
SCF N <sub>2</sub>	256,000	570,000	457,000			
Acid-gal	800 gal 15% acid	700 gal 15% acid	400 gal 15% acid			
NOTES:	SD-high pressure					

TOP	BASE	FORMATION	REMARKS*
615	622.25	Beckley	
732.75	735.25	Firecreek	
757.25	758	L Firecreek	
994.25	999	Poca 6	
1041.25	1041.75	Poca 5	
1074.75	1076.75	Poca 4	
1161	1163	Poca 3	
1209.25	1214.25	Poca 2	
1257	1258.25	Poca 1	
1310.5	1312	Squire Jim	



04/05/2019

WW-4A  
Revised 6-07

1) Date: 01/21/2019  
2) Operator's Well Number  
506504 Kennedy 6504  
3) API Well No.: 47 - 047 - 01595

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: (a) Name Clark Kennedy Et al, Address 89 Rockridge Rd, Paynesville, WV 24873, (b) Name, Address, (c) Name, Address  
5) (a) Coal Operator Name, Address, (b) Coal Owner(s) with Declaration Name Clark Kennedy Et al, Address 89 Rockridge Rd, Paynesville, WV. 24873, (c) Coal Lessee with Declaration Name, Address  
6) Inspector Gary Kennedy, Address 66 Old Church Lane, Pipestem, WV. 25979, Telephone 304-382-8402

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: Diversified Southern Production, LLC
By: Conley Smith (signature)
Its: Regional Land Manager
Address: P.O. Box 3878, Pikeville, KY. 41501
Telephone: (606) 437-5245

Subscribed and sworn before me this 22nd day of JANUARY 2019
Notary Public
My Commission Expires 8-18-2020

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.



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) Bradshaw Creek of Dry Fork Quadrangle Bradshaw

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: 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 ( UIC Permit Number 2D04701511002 )
- Reuse (at 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? \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

JAN 25 2019

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.

WV Department of Environmental Protection

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 22<sup>nd</sup> day of January, 20 19

[Signature] Notary Public

My commission expires 8-18-2021

Operator's Well No. \_\_\_\_\_

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.

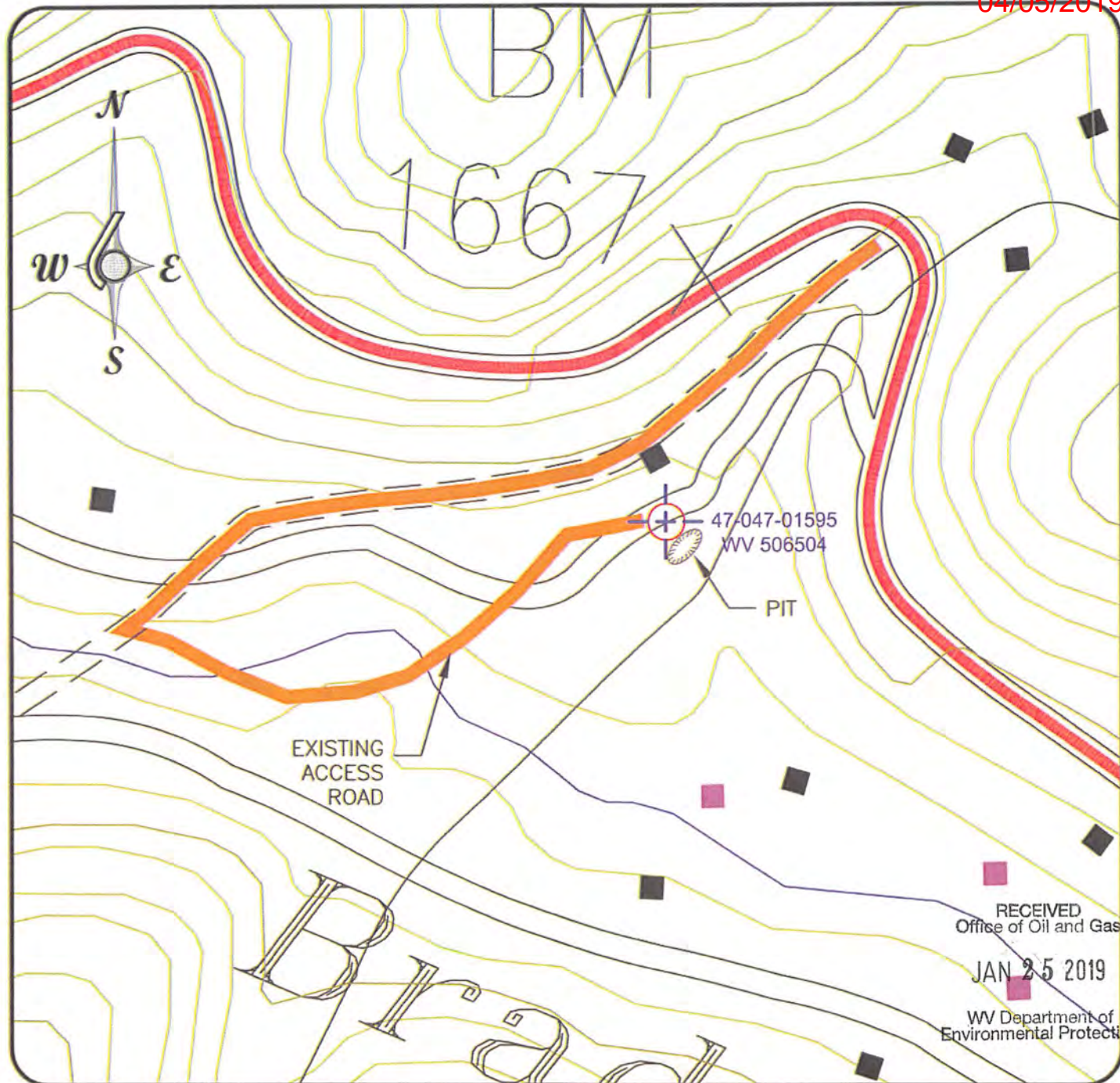
Plan Approved by: 

Comments:

Title: Inspector Date: 1/26/19

Field Reviewed? ( ) Yes ( ) No





RECEIVED  
Office of Oil and Gas  
JAN 25 2019  
WV Department of  
Environmental Protection

API: 47-047-01595

Well: KENNEDY #506504

Well # 506504

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



NAD 27 S Zone N 122,602.06 E 1,752,321.77	NAD 83 S Zone N 122,645.19 E 1,720,874.95
UTM N83 Zone 17 N 4,132,230.084m E 424,554.763m	LAT: 37.333684 LONG: -81.851655 ELEV: 1542.02'

**Bocook Engineering**  
CONSULTING ENGINEERS

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

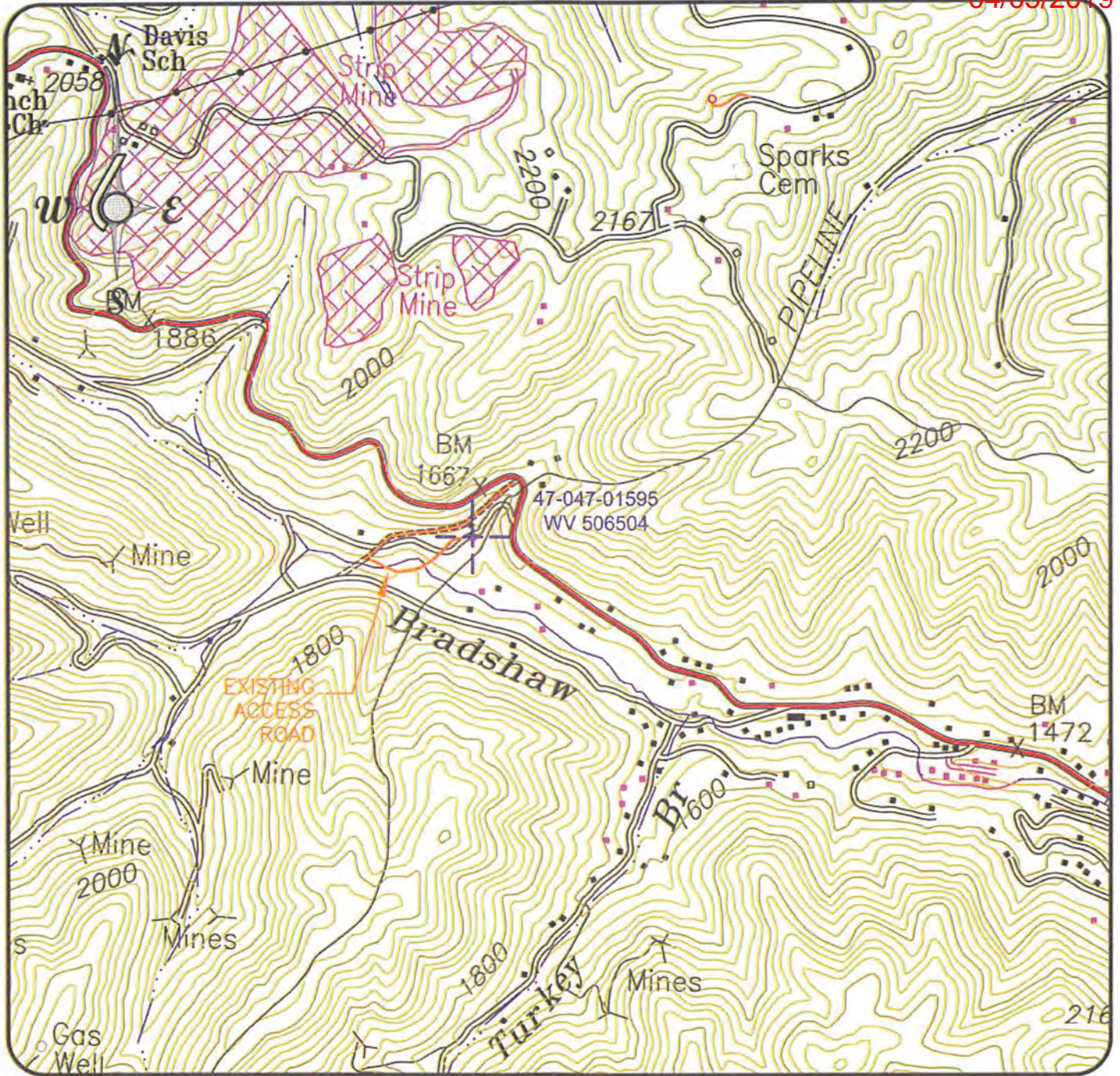
PIT MAP



DIVERSIFIED GAS & OIL  
CORPORATION



47-047-01595 P  
04/05/2019



API: 47-047-01595

Well: KENNEDY #506504

Well # 506504

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



RECEIVED  
Office of Oil and Gas

JAN 25 2019  
WV Department of Environmental Protection

NAD 83 S Zone N 122,602.06 E 1,752,321.77	NAD 83 S Zone N 122,645.19 E 1,720,874.95
UTM N83 Zone 17 N 4,132,230.084m E 424,554.763m	LAT: 37.333684 LONG: -81.851655 ELEV: 1542.02'

**Bocook Engineering**  
CONSULTING ENGINEERS

312 TENTH STREET PAINTSVILLE, KY (606) 789-5961  
259 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: 47-047-01595 WELL NO.: 506504  
 FARM NAME: Kennedy 6504  
 RESPONSIBLE PARTY NAME: Alliance Petroleum Corporation, LLC  
 COUNTY: McDowell DISTRICT: Sand River  
 QUADRANGLE: Bradshaw  
 SURFACE OWNER: Clark Kennedy, et. al.  
 ROYALTY OWNER: Clark Kennedy, et. al.  
 UTM GPS NORTHING: 4,132,230.084m (1542')  
 UTM GPS EASTING: 424,554.763m GPS ELEVATION: 470.008m

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.  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 1000 UNIVERSITY AVENUE, SUITE 1000  
 MARTINSBURG, WEST VIRGINIA 26101  
 TEL: 304.251.4100 FAX: 304.251.4101

Signature

LLS # 1054

Title

1/14/2019

Date