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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 9, 2019

WELL WORK PLUGGING PERMIT  
 Coal Bed Methane Well Plugging

ALLIANCE PETROLEUM CORPORATION  
 101 MCQUISTON DR.

JACKSON CENTER, PA 16133

Re: Permit approval for  
 47-047-01597-00-00

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: 506509  
 Farm Name: KENNEDY, CLARK & PAUL  
 U.S. WELL NUMBER: 47-047-01597-00-00  
 Coal Bed Methane Well Plugging  
 Date Issued: 4/9/2019

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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

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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 **04/12/2019**  
2) Operator's  
Well No. 506506 Kennedy 6509  
3) API Well No. 47-047 - 01597C

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

5) Location: Elevation 1866.41 Watershed Unnamed Tributary of Bradshaw Creek of Dry Fork  
District Sandy River County McDowell Quadrangle Bradshaw

6) Well Operator Diversified Southern Production 7) Designated Agent Conley Smith  
Address 100 Diversified Way Address 100 Diversified Way, P.O. Box 3878  
Pikeville, KY. Pikeville, KY.

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.

IF 4 1/2" CASING IS NOT CEMENTED TO SURFACE,  
CUT & PULL 4 1/2" OUT OF HOLE, AND SET 100'  
CLASS A CEMENT PLUG ACROSS CUT.  
JDM

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

04/12/2019

## PLUGGING PROGNOSIS

506509

West Virginia, McDowell County

API # 47-047-01597

**Casing Schedule**

12 3/4" csg @ 22'. Cemented to surface

9 5/8" csg @ 523' cemented w/ 182.9 cu ft. Calculated TOC at surface

4 1/2" csg @ 1703' cemented w/ 426.99 cu ft. Calculated TOC at surface

2" tbg @ 1640' (5/8" rods)

**Completion**

1st Stage: 1369'- 1422 (16H)

2nd Stage: 1201'- 1283' (16H)

3rd Stage: 1109'- 1151' (20H)

4th Stage: 761'- 901' (20H)

**Fresh Water:** None Reported**Saltwater:** None Reported**Coal:** 10', 60', 140', 350', 568.5', 759.5', 875.75', 899.5', 952.5', 967.5', 1109', 1145.5', 1170.25', 1201.25', 1234.5', 1281', 1324', 1369.75', 1421.25', 1756'

1. Notify inspector, Gary Kennedy 304-382-8402, 48 hrs. prior to commencing operations.
2. TOOH w/ 5/8" rods
3. 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
4. TIH w/ tbg to TD.
  - a. Set expanding cement plug from 820' to 1640'
  - b. TOOH w/ tbg
5. TIH w/ tbg to 820'.
  - a. Set expanding cement plug from 0' to 820'
  - b. TOOH w/ tbg.
6. Erect monument with API#, date plugged, & company name.
7. Reclaim location and road to WV-DEP specifications.

*Check  
Rock  
Pressure**Get  
spacer  
100'**JJK*

WR-35

API # 47- 047-01597

*pc 8*

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Kennedy, Clark & Paul Operator Well No.: 506509  
LOCATION: Elevation: 1886.41' Quadrangle: Bradshaw  
District: Sandy River County: McDowell  
Latitude: 1810 Feet South of 37 Deg. Minutes 20 Seconds 0  
Longitude: 7600 Feet West of 81 Deg. Minutes 50 Seconds 0

Company: Equitable Production Company  
P.O. Box 2347, 1710 Pennsylvania Avenue  
Charleston, WV 25326

Agent: Stephen G. Perdue

Inspector: Ofie Helmick  
Permit Issued: 01/10/2002  
Well work commenced: 05/01/02  
Well work completed: 11/19/02

Verbal Plugging Permission granted on: \_\_\_\_\_

Rotary Rig  Cable Rig \_\_\_\_\_

Total Depth 1756 feet

Fresh water depths (ft) none reported

Salt water depths (ft) none reported

Is coal being mined in area?  
Coal Depths (ft): 10', 60', 140', 350'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4"	22'	22'	grouted
9 5/8"	523'	523'	182.9 ft <sup>3</sup>
4 1/2"	1703'	1703'	426.99 ft <sup>3</sup>
2 3/8"		1640'	

*TAC ≈ 366' (COULD BE?)*

OPEN FLOW DATA Squire Jini, Poca 1/Poca 4/3, Poca 6/7, L Firecreek, Firecreek, See Attach for details

Producing formation Beckley Pay Zone Depth (ft): \_\_\_\_\_

Gas: Initial open flow 0 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow: 26 MCF/d Final open flow: \_\_\_\_\_  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay Zone Depth (ft): \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow: \_\_\_\_\_ MCF/d Final open flow: \_\_\_\_\_  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock pressure \_\_\_\_\_ psig (surface 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 WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

*Barbara Howard*

For: Equitable Production Company

By: *Paul J. Thira*  
Date: 2/6/03

*McDOW 1597*

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

Well: WV-506509

API# 47-047-01597

Date	11/6/2002	11/6/2002	11/11/2002	11/11/2002		
Type Frac						
Acid, N <sub>2</sub> , Foam, Water	140 Delta Frac	140 Delta Frac	140 Delta Frac	140 Delta Frac		
Zone Treated	Squire Jim/ Poca 1	Poca 4/3	Poca 6/7	L Firecreek/ Firecreek/ Beckley		
# Perfs	16	16	20	20		
From - To:	1369-1422	1201-1283	1109-1151	761-901		
BD Pressure @ psi	3059	2919	2948	2477		
ATP psi	3088	3250	2601	2610		
Avg. Rate, B=B/M, S= SCF/M	5.5 B	10.5 B	12.48 B	13.4 B		
Max. Treat Press psi	4111	4100	3500	3543		
ISIP psi	NA	NA	2639 Final	1471 Final		
Frac Gradient	NA	NA	2.76	2.20		
10 min S-I Pressure	NA	NA	2006 5 min	1218 5 min		
Material Volume						
Sand-sks	39	86	196	231		
Water-bbl	163	285	366	311		
SCF N <sub>2</sub>						
Acid-gal	300 gal 7.5% acid	300 gal 7.5%	800 gal 7.5% acid	800 gal 7.5% acid		
NOTES:		Screen Out				

TOP	BASE	FORMATION	REMARKS*
Coal Seams @ 10', 60', 140', 350'			

RALEIGH	568.5
BECKLEY	759.5
FIRE CREEK	875.75
LOWER FIRE CREEK	899.5
POCA 9	952.5
POCA 8	967.5
POCA 7	1109
POCA 6	1145.5
POCA 5	1170.25
POCA 4	1201.25
Un-named	1234.5
POCA 3	1281
POCA 2	1324
POCA 1	1369.75
SQUIRE JIM	1421.25
TD	1756

*OK*



WW-4A  
Revised 6-07

1) Date: 02/13/2019  
 2) Operator's Well Number  
506509 Kennedy 6509  
 3) API Well No.: 47 - 047 - 01597C

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

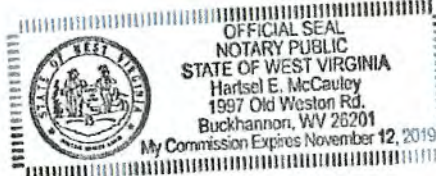
4) Surface Owner(s) to be served: (a) Name <u>Clark Kennedy Et al</u> Address <u>89 Rockridge Rd</u> <u>Paynesville WV 24873</u> (b) Name _____ Address _____ (c) Name _____ Address _____ (d) Inspector <u>Gary Kennedy</u> Address <u>66 Old Church Lane</u> <u>Preston WV 25979</u> Telephone <u>304.382-8402</u>	5) (a) Coal Operator Name _____ Address _____ (b) Coal Owner(s) with Declaration Name <u>Clark Kennedy Et al</u> Address <u>89 Rockridge Rd</u> <u>Paynesville WV 24873</u> (c) Coal Lessee with Declaration Name _____ Address _____
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**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 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 <u>Alliance Petroleum Corporation, LLC</u> By: <u>David Dean</u> His: <u>Executive VP Production</u> Address <u>1997 Old Weston Rd</u> <u>Buckhannon WV 26201</u> Telephone <u>304-471-2319</u>
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Subscribed and sworn before me this 15th day of February 2019  
Hartsel 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](mailto:depprivacyofficer@wv.gov).



WW-9  
(5/16)

API Number 47 - 047 - 01597C  
Operator's Well No. \_\_\_\_\_

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 (HUIC 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  *JK*

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? \_\_\_\_\_

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

J. R. G. Bell Notary Public

My commission expires 5-18-2020

WW-9  
(5/16)

API Number 47 - 047 - 01597C  
Operator's Well No. \_\_\_\_\_

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

Operator Name Alliance Petroleum Corporation, LLC 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(3)P)
- Underground Injection (LIC Permit Number 2004701517002)
- Resource API Number \_\_\_\_\_
- Oil 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? \_\_\_\_\_

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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 David Dean

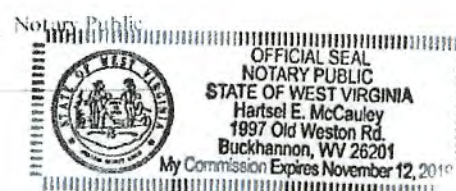
Company Official (Typed Name) David Dean

Company Official Title Executive VP Production

Subscribed and sworn before me this 15th day of February, 2019

Hartsel E. McCauley

My commission expires November 12, 2019



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

Lime 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.

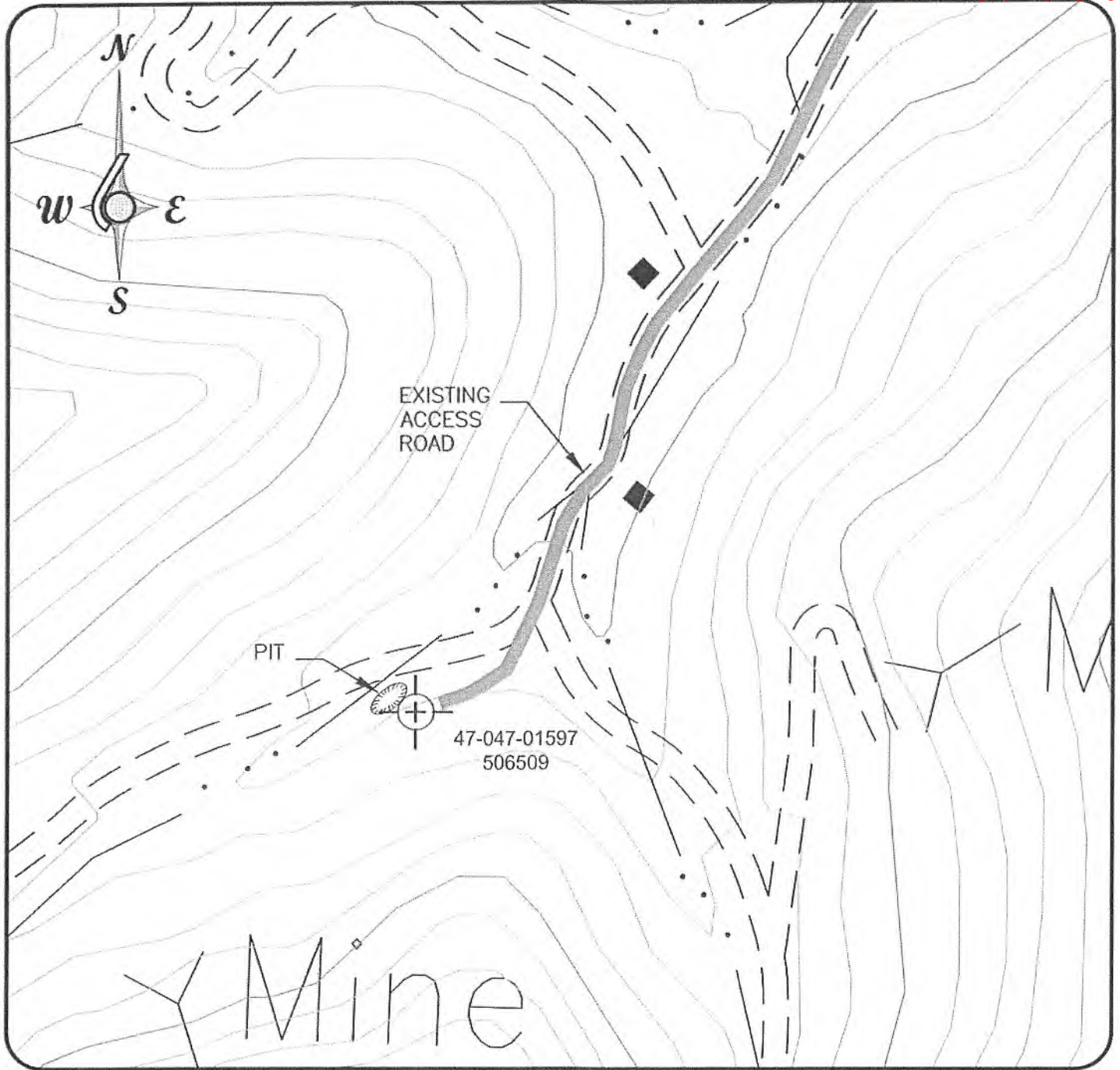
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: *Inspector* Date: *1/26/19*

Field Reviewed? ( ) Yes ( ) No



API: 47-047-01597

Well: KENNEDY #506509

Well # 506509

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	NAD 83 S Zone
N 120,882.82	N 120,925.91
E 1,749,916.15	E 1,718,469.24
UTM N83 Zone 17	LAT: 37.328901
N 4,131,706.108m	LONG: -81.859873
E 423,821.860m	ELEV: 1654.14'



312 TENTH STREET  
 PAINTSVILLE, KY (606) 789-5961

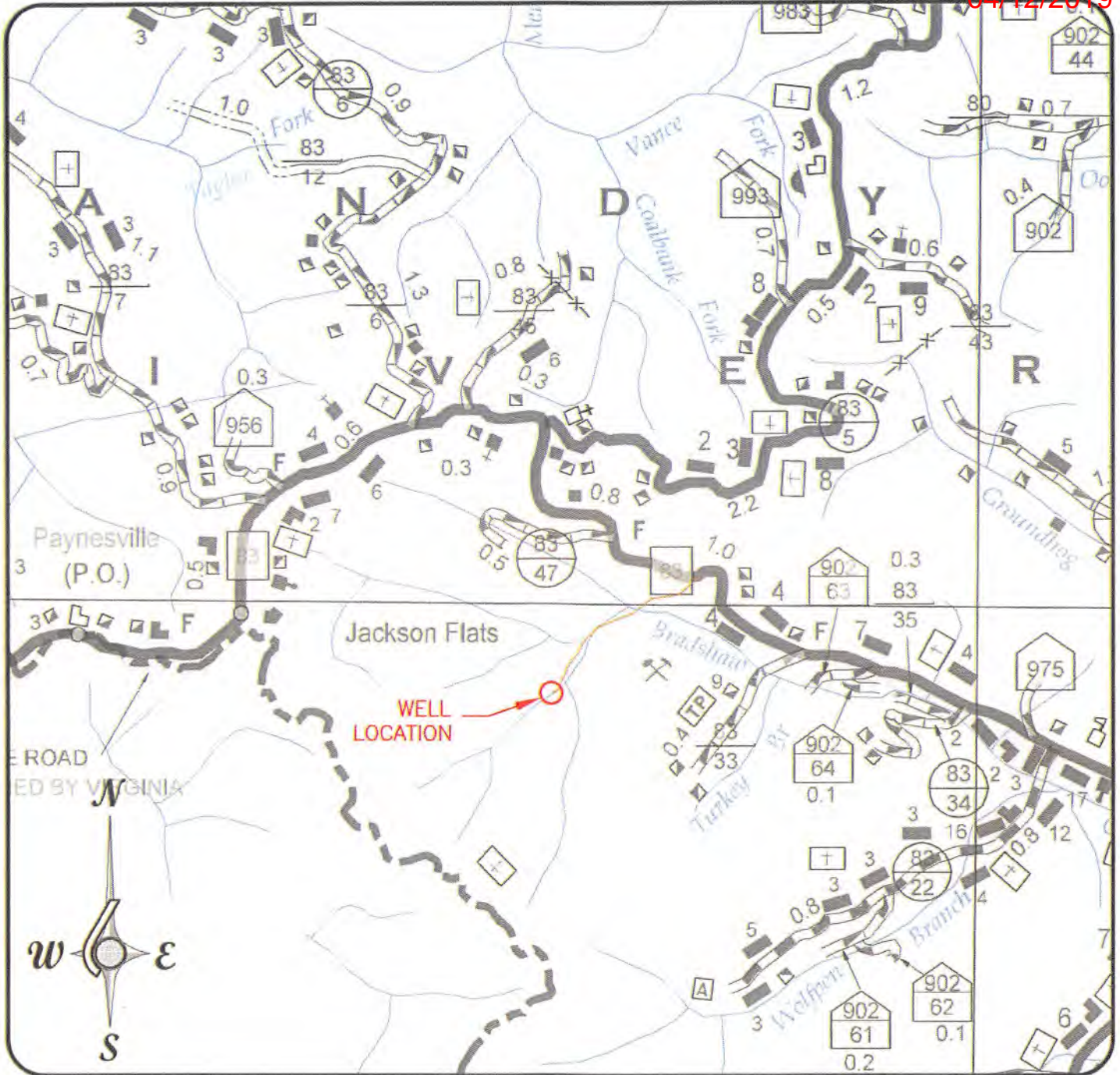
259 NORTH ARNOLD AVENUE  
 PRESTONSBURG, KY (606) 886-7884

PIT MAP



*Handwritten signature*

DIVERSIFIED GAS & OIL  
 CORPORATION



API: 47-047-01597

Well: KENNEDY #506509

Well # 506509

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



NAD 27 S Zone	NAD 83 S Zone
N 120,882.82	N 120,925.91
E 1,749,916.15	E 1,718,469.24
UTM N83 Zone 17	LAT: 37.328901
N 4,131,706.108m	LONG: -81.859873
E 423,821.860m	ELEV: 1654.14'



312 TENTH STREET  
PAINTSVILLE, KY (606) 789-5961

259 NORTH ARNOLD AVENUE  
PRESTONSBURG, KY (606) 886-7884

RECEIVED  
HIGHWAY  
JAN 25 2019



DIVERSIFIED GAS & OIL  
CORPORATION

WV Department of  
Environmental Protection

47-047-01597P

04/12/2019



API: 47-047-01597

Well: KENNEDY #506509

Well # 506509

Topo Quad: Bradshaw 7.5'  
 County: McDowell, WV  
 District: Sandy River  
 Scale: N.T.S.  
 Date: January 9, 2019  
 Work Order: GSE1070



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

NAD 27 S Zone N 120,882.82 E 1,749,916.15	NAD 83 S Zone N 120,925.91 E 1,718,469.24
UTM N83 Zone 17 E 423,821.860m	LAT: 37.328901 LONG: -81.859873 ELEV: 1654.14'

**Bocook Engineering**  
 CONSULTING ENGINEERS

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

PHOTO



DIVERSIFIED GAS & OIL  
 CORPORATION

04/12/2019



2000 ft

Legend

506509



Diversified Gas & Oil

47-047-01597 Well No.: 506509



WW-7  
8-30-06



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

API: 47-047-01597 WELL NO.: 506509  
 FARM NAME: Kennedy 6509  
 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: 4,131,706.108m  
 UTM GPS EASTING: 423,821.860m GPS ELEVATION: 504.182m (1654')

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.

Dewey L. Bocook, Jr.  
REGISTRAR OF DEEDS AND RECORDS  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 1500 MARKET STREET, SUITE 1000  
 MARTINSBURG, WV 26150  
 PHONE: 304.251.4000 FAX: 304.251.4001

Signature

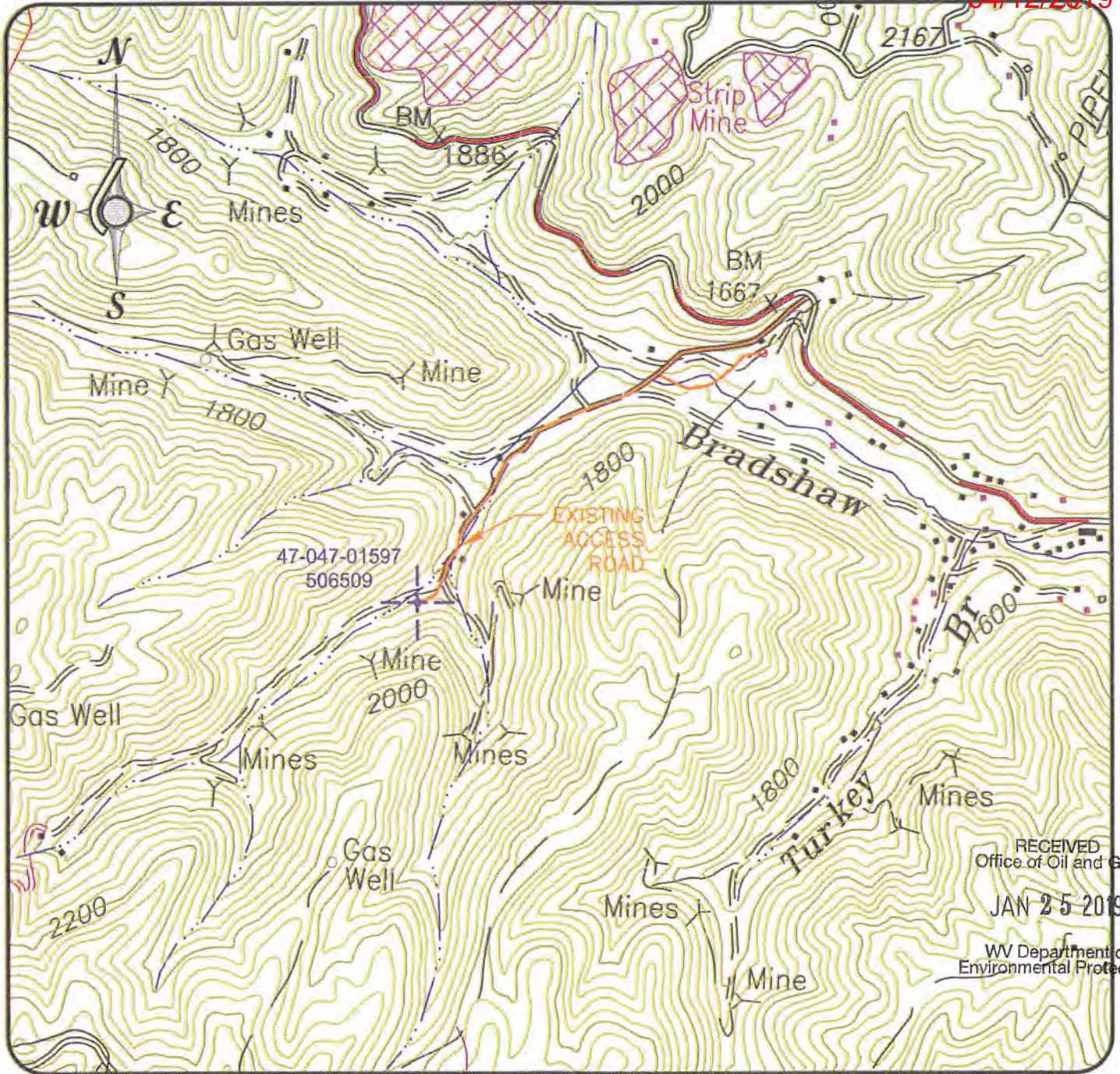
LLS # 1054

Title

1/14/2019

Date





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

<b>API: 47-047-01597</b>	<b>Well: KENNEDY #506509</b>	<b>Well # 506509</b>				
Topo Quad: Bradshaw 7.5' County: McDowell, WV District: Sandy River Scale: 1"=1000' Date: January 11, 2019 Work Order: GSE1070	 <p>STATE OF WEST VIRGINIA MONTANI SEMPER LIBERI</p>	<table border="0" style="width: 100%;"> <tr> <td>NAD 27 S Zone N 120,882.82 E 1,749,916.15</td> <td>NAD 83 S Zone N 120,925.91 E 1,718,469.24</td> </tr> <tr> <td>UTM N83 Zone 17 N 4,131,706.108m E 423,821.860m</td> <td>LAT: 37.328901 LONG: -81.859873 ELEV: 1654.14'</td> </tr> </table>	NAD 27 S Zone N 120,882.82 E 1,749,916.15	NAD 83 S Zone N 120,925.91 E 1,718,469.24	UTM N83 Zone 17 N 4,131,706.108m E 423,821.860m	LAT: 37.328901 LONG: -81.859873 ELEV: 1654.14'
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 <b>Bocook Engineering</b> CONSULTING ENGINEERS 312 TENTH STREET PAINTSVILLE, KY (606) 789-5961 259 NORTH ARNOLD AVENUE PRESTONSBURG, KY (606) 886-7884	<b>TOPO</b>	 <b>DIVERSIFIED GAS &amp; OIL</b> CORPORATION				