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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, July 23, 2019

WELL WORK PLUGGING PERMIT  
Vertical Plugging

ALLIANCE PETROLEUM CO., LLC  
101 MCQUISTON DR

JACKSON CITY, PA 16133

Re: Permit approval for D-108  
47-045-01356-00-00

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: D-108  
Farm Name: FORESTLAND GROUP, LLC  
U.S. WELL NUMBER: 47-045-01356-00-00  
Vertical Plugging  
Date Issued: 7/23/2019

## 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.

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

1) Date 5-3-, 2019  
2) Operator's  
Well No. 216301 Island Creek Coal D108  
3) API Well No. 47-045 - 01356

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 \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow \_\_\_

5) Location: Elevation 1397' Watershed Trace Fork of Copperas Mine Fork  
District \_\_\_ County \_\_\_ Quadrangle \_\_\_

6) Well Operator Alliance Petroleum Corporation, LLC 7) Designated Agent David Dean  
Address 1997 Old Weston Road Address 1997 Old Weston Road  
Buckhannon, WV. 26201 Buckhannon, WV. 26201

8) Oil and Gas Inspector to be notified Name Jeffery Smith  
Address 5369 Big Tyler Road  
Cross Lanes, WV.25313  
9) Plugging Contractor Name R and J Well Service  
Address 1087 Raccoon Rd.  
Hueysville, KY. 41640

10) Work Order: The work order for the manner of plugging this well is as follows:

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OK gmm

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

## PLUGGING PROGNOSIS

216301

West Virginia, Logan County

API # 47-045-01356

**Casing Schedule**

13 3/8" csg @ 22' grouted to surface

9 5/8" csg @ 937'. Cemented w/ 360 cu ft. Calculated TOC at surface (12.25 hole)

7" csg @ 2421'. Cemented w/ 461 cu ft. Calculated TOC at surface (8.75 hole)

4 1/2" csg @ 4938'. Cemented w/ 422 cu ft. Calculated TOC at 1450' (6.5 hole)

**Completion**

Upper Coal Completion: 615' to 758' (13H)

2<sup>nd</sup> Coal Completion: 994' to 1076' (12H)

Lower Coal Completion: 1161' to 1311' (14H)

**Fresh Water:** 90'**Coal:** 287' - 291', 417' - 423', 446' - 456', 565' - 570', 580' - 585' (Open Mine), 839' - 846' (Void assumed open mine)**Gas Shows:** None Reported**Oil Shows:** 2561'

1. Notify inspector, Jeffrey Smith 681-313-6743, 48 hrs. prior to commencing operations.
2. Check and record pressures.
3. Release packer, TOO H w/ tbg, and remove packer.
4. Kill well with 6% bentonite gel as needed.
5. TIH w/ tbg to 4598'
  - a. Set 100' C1A cement plug: 4498' - 4598'
6. TOO H w/ tbg to 4498' *WOC, TAG CEMENT, ADD IF NEEDED. JAM*
  - a. Pump 6% bentonite gel: 3182' - 4498'
7. TOO H w/ tbg to 3182'
  - a. Set 100' C1A cement plug: 3082' - 3182' *WOC, TAG CEMENT, ADD IF NEEDED.*
8. TOO H w/ tbg to 3082'
  - a. Pump 6% bentonite gel: 2503' - 3082'
9. TOO H w/ tbg to 2503'
  - a. Set 132' C1A cement plug: 2371' - 2503' *WOC, TAG CEMENT, ADD IF NEEDED.*
10. TOO H w/ tbg to 2371'
  - a. Pump 6% bentonite gel: 1500' - 2371' *100' CLASS A PLUG ACROSS 4 1/2" CASING CUT.*
11. TOO H w/ tbg. Free point and cut 4 1/2" csg starting at 1450'. If unable to pull 4 1/2" csg at target depth work up hole perforating all plugs as needed.
12. TIH w/ tbg to 1500'
  - a. Set 153' C1A Cement plug: 1347' - 1500' (Required 1347' - 1447' if 4 1/2" csg not free due to elevation plug)
13. TOO H w/ tbg to 1347'
  - a. Pump 6% bentonite gel: 987' - 1347'
14. TOO H w/ tbg to 987'
  - a. Set 198' C1A cement plug: 789' - 987'
15. TOO H w/ tbg to 789'
  - a. Pump 6% bentonite gel: 635' - 789'
16. TOO H w/ tbg to 635'
  - a. Set 398' C1A cement plug: 237' - 635'

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17. TOOH w/ tbg to 237'
  - a. Pump 6% bentonite gel: 140'- 237'
18. TOOH w/ tbg to 140'.
  - a. Set 140' C1A cement plug from **surface to 140'**
19. Erect monument with API#, date plugged, & company name.
20. Reclaim location and road to WV-DEP specifications.

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WR-35

API # 47- 045-01356

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

Reviewed: \_\_\_\_\_

Well Operator's Report of Well Work

Farm Name: Forestland Group, LLC

Operator Well No.: Island Creek Coal Co. D-108

LOCATION: Elevation: 1,397.00

Quadrangle: Holden

District: Island Creek

County: Logan

Latitude: 11300 Feet South of  
Longitude: 2650 Feet West of

37 Deg.  
82 Deg.

Minutes 50  
Seconds 0  
5 0

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Permitting  
AUG 30 2000  
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Company: Eastern States Oil & Gas  
P.O. Box 2347, 1710 Pennsylvania Avenue  
Charleston, WV 25328

Agent: Robert Alley

Inspector: Offie Helmick  
Permit Issued: 02/18/2000

Well work commenced: 06/07/00  
Well work completed: 07/03/00

Verbal Plugging

Permission granted on: \_\_\_\_\_

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

Total Depth 4964 feet

Fresh water depths (ft) 90'

Salt water depths (ft) 1520', 2090', 2320'

Is coal being mined in area? \_\_\_\_\_

Coal Depths (ft): 287', 417', 448', 565'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	22'	22'	grouted
9 5/8"	937'	937'	360 ft <sup>3</sup>
7"	2421'	2421'	461 ft <sup>3</sup>
4 1/2"	4938'	4938'	422 ft <sup>3</sup>

OPEN FLOW DATA

Producing formation Lower Shale / Upper Shale / Berea / Big-Lime / Weir

Pay Zone Depth (ft): \_\_\_\_\_

See Attach for details

Gas: Initial open flow 0 MCF/d

Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow: 1551 MCF/d

Final open flow: \_\_\_\_\_

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure 640 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.

For: Eastern States Oil & Gas

By: [Signature]  
Date: 8/24/00

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106 1356

3206'	3240'	Berea	
3240'	4180'	Upper Huron	
3355'		Gordon	
4180'	4484'	Lower Huron	
4484'	4603'	Java	GT @ 4560' = NS
4603'	4793'	Angola	
4793'		Rhinstreet	
	4964'	TD	GT @ 4964' = odor

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Log 1356

**EASTERN STATES OIL & GAS, INC.  
WR-35 COMPLETION REPORT - Attachment  
Well Treatment Summary**

Well: Island Creek D-108

API# 47-045-01356

Date	06/29/00	06/29/00	06/29/00			
Type Frac Acid, N <sub>2</sub> , Foam, Water	N <sub>2</sub>	N <sub>2</sub>	Acid w/ N <sub>2</sub> Displacement			
Zone Treated	Lower Shale	Upper Shale Berea	Big Lime Weir			
# Perfs From - To:	15 4598' - 4893'	34 3182' - 4476'	20 2503' - 2689'			
BD Pressure @ psi	3755	2818	282			
ATP psi	3766	2042	2014			
Avg. Rate, B=B/M, S= SCF/M	65,106 S	57,388	7 B 59,512 S			
Max. Treat Press psi	4000	2818	3960			
ISIP psi	3350	1490	380			
Frac Gradient	.83	.45	.57			
10 min S-I Pressure	1868	1088	1121			
Material Volume						
Sand-sks						
Water-bbl						
SCF N <sub>2</sub>	400,473	1,158,221	330,721			
Acid-gal	650 gal 7 ½%	1100 gal 7 ½%	2500 gal 14.8%			
NOTES:						

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TOP	BOTTOM	FORMATION	REMARKS
0'	10'	KB	
10'	261'	Sand & Shale	Water @ 90'
261'	273'	Sand	
273'	287'	Sandy Shale	
287'	291'	Coal	
291'	417'	Sandy Shale	
417'	423'	Coal	
423'	446'	Shale	
446'	456'	Coal	
456'	500'	Shale	
500'	560'	Sand	
560'	565'	Sandy Shale	
565'	570'	Coal	
570'	580'	Shale	
580'	585'	Open Mine	
585'	728'	Sandy Shale	
728'	757'	Black Shale	
757'	795'	Sandy Shale	
795'	832'	Shale	
832'	836'	Black Shale	
836'	839'	Sand	
839'	846'	Open hole	
846'	1195'	Shale	
1272'	1915'	Salt Sand	Water @ 1520'
2177'	2253'	Maxton	Water @ 2090' GT @ 2095' = NS
2370'	2420'	Little Lime	Water @ 2320'
2420'	2569'	Big Lime	Show. of oil @ 2561'
2784'	2864'	Weir	GT @ 2575' = NS
3176'	3206'	Sunbury	GT @ 3195' = NS

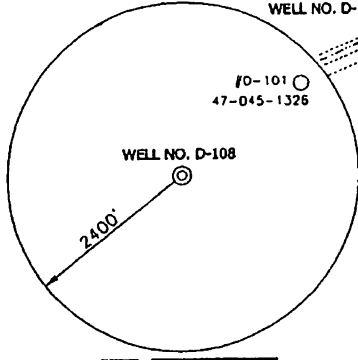
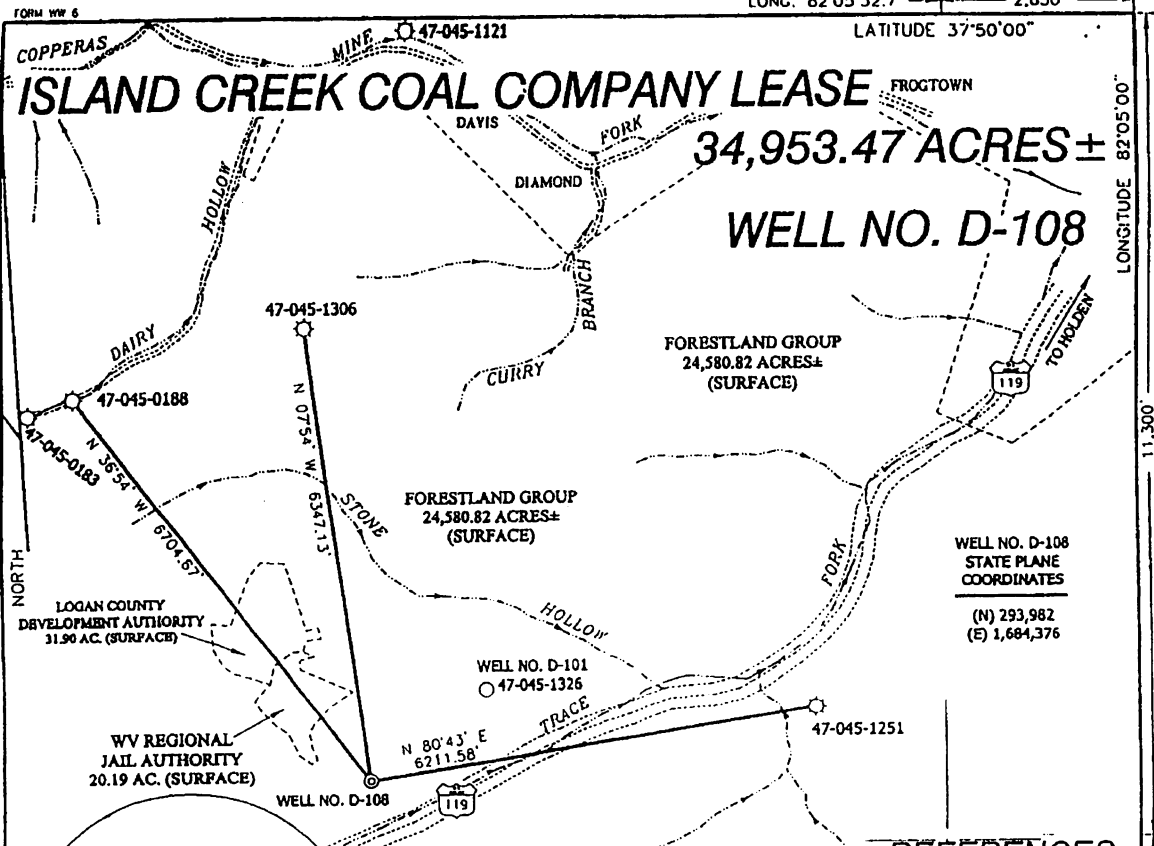
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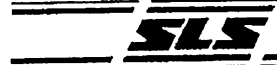
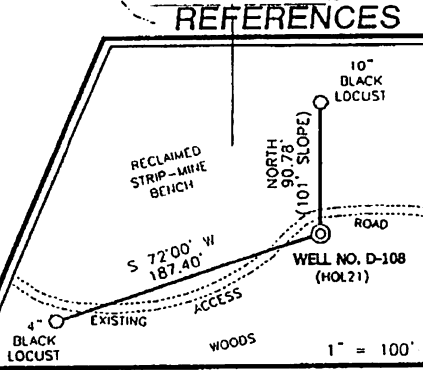
WV Department of  
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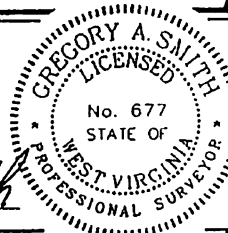
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- NOTES ON SURVEY**
1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
  2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 01/06/00.
  3. LEASE BOUNDARY DOES NOT FALL WITHIN THE SCOPE OF THIS PLAT.
  4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN MARCH, 1999.
  5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



I THE UNDERSIGNED, HEREBY CERTIFY THAT 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 DEPARTMENT OF ENERGY.



P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON LIMITED STATES TOPOGRAPHIC MAPS.  
DATE JANUARY 17, 2000  
OPERATORS WELL NO. ISLAND CREEK#D-108  
API WELL NO. 47-045-01356  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3890PD108 (84-36)  
PROVEN SOURCE OF ELEVATION CABIN HILL TRIANGULATION STATION ELEV. 1844'  
SCALE 1" = 2000'

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

WELL TYPE : OIL \_\_\_ GAS  LIQUID WASTE IF "GAS" PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW

LOCATION : ELEVATION 1397' WATERSHED TRACE FORK OF COPPERAS MINE FORK OF ISLAND CREEK  
DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE HOLDEN 7.5'  
SURFACE OWNER FORESTLAND GROUP ACREAGE 24,580.82  
ROYALTY OWNER ISLAND CREEK COAL COMPANY LEASE ACREAGE 34,953.47  
PROPOSED WORK : LEASE NO. 80662  
DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_ TARGET FORMATION DEVONIAN SHALE  
ESTIMATED DEPTH 5100'

WELL OPERATOR EASTERN STATES OIL AND GAS, INC. DESIGNATED AGENT ROBERT ALLEY  
ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328 ADDRESS P.O. BOX 2347 CHARLESTON, WV 25328

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MAY 10 2019

WV Department of Environmental Protection  
COUNTY NAME 606  
PERMIT 1356

47-045-01356P

WW-4A  
Revised 6-07

1) Date: 5-3-2019  
2) Operator's Well Number  
216301 Island Creek Coal D108  
3) API Well No.: 47 - 045 - 01356

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

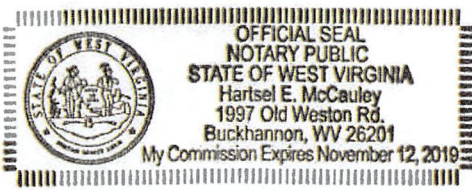
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Heartwood Forestland Group</u>	Name _____
Address <u>P.O. Box 9162</u>	Address _____
<u>Chapel Hill, NC 27515</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>No Declarations</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Jeffery L. Smith</u>	(c) Coal Lessee with Declaration
Address <u>5369 Big Tyler Road</u>	Name _____
<u>Cross Lanes, WV 25313</u>	Address _____
Telephone _____	

**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 Alliance Petroleum Corporation, LLC  
 By: David Dean  
 Its: Executive VP Production  
 Address 1997 Old Weston Road  
Buckhannon, WV 26201  
 Telephone (304) 471-2319

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Subscribed and sworn before me this 8th day of May 2019  
Hartsel E. McCauley Notary Public  
 My Commission Expires November 12, 2019

WV Department of Environmental Protection

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 - 045 - 01356  
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) Trace Fork of Copperas Mine Fork Quadrangle Holden 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: 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 David Dean

Company Official (Typed Name) David Dean

Company Official Title Executive VP Production

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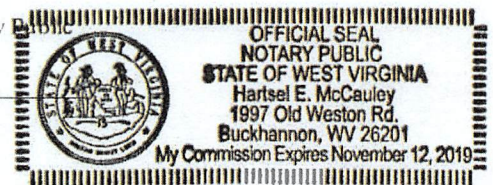
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Environmental Protection

Subscribed and sworn before me this 8th day of May, 20 19

Hartsel E McCauley Notary Public

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: \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

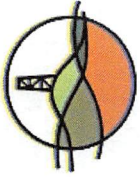
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Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No



Diversified Gas & Oil Corporation  
 100 Diversified Way  
 Pikeville KY, 41051

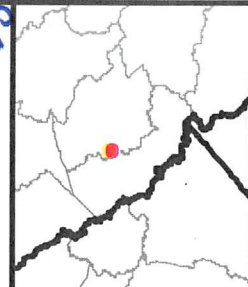
216301

Plugging Map

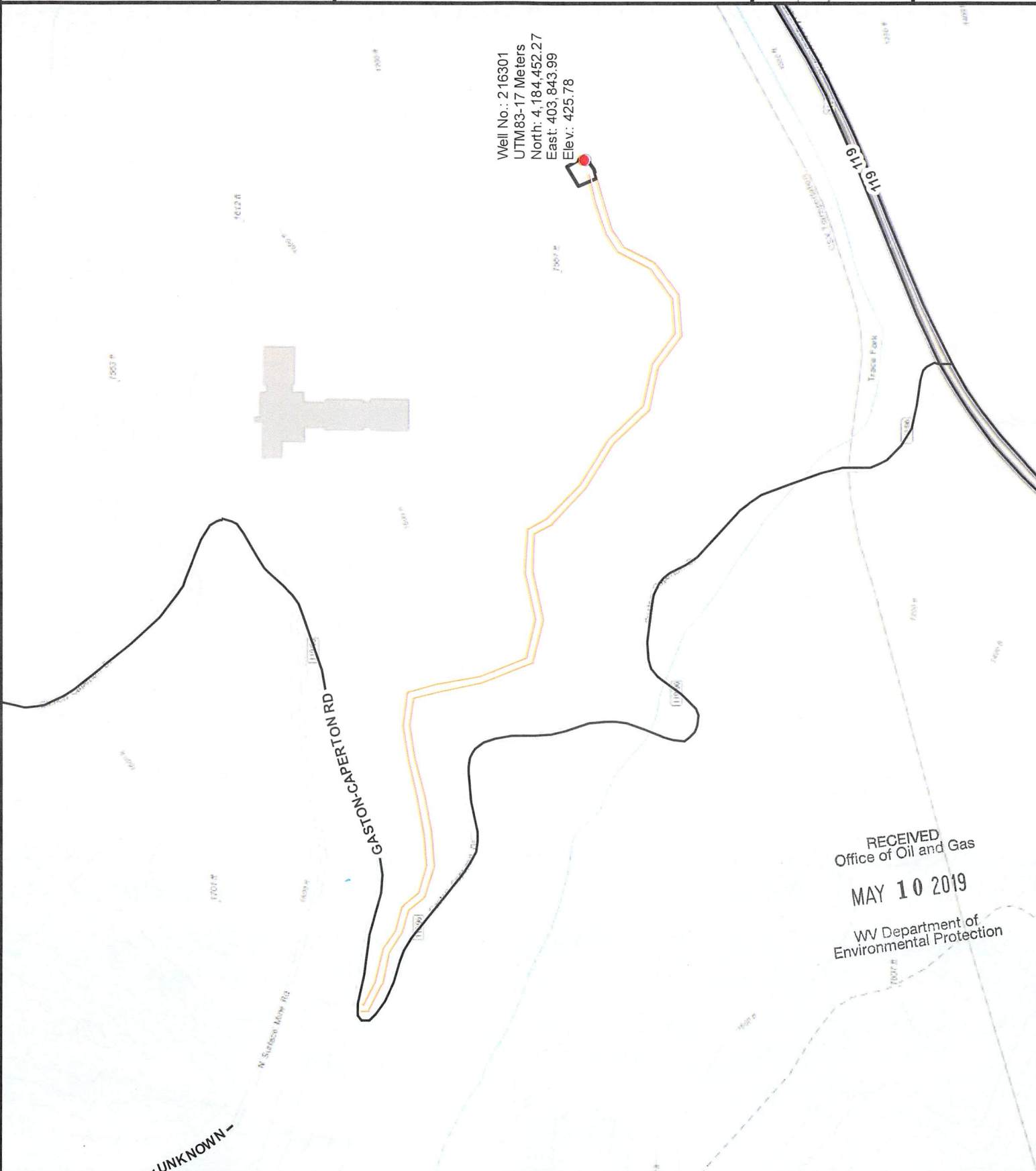
**Legend**

- Public Roads
- Well
- Access Road
- Sediment Control
- Pad

47-045-01356P



1" = 500'



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Diversified Gas & Oil Corporation  
 100 Diversified Way  
 Pikeville KY, 41051

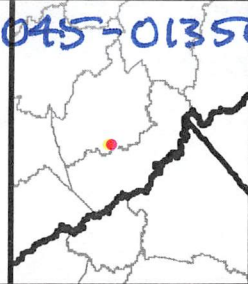
216301

Plugging Map

**Legend**

- Public Roads
- Pits
- Well
- Access Road
- Sediment Control
- Pad

47-045-01356 P

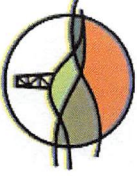


1" = 50'



Well No.: 216301  
 UTM83-17 Meters  
 North: 4,184,452.27  
 East: 403,843.99  
 Elev.: 425.78

Secondary Pit  
 Primary Pit



Diversified Gas & Oil Corporation  
 100 Diversified Way  
 Pikeville KY, 41051

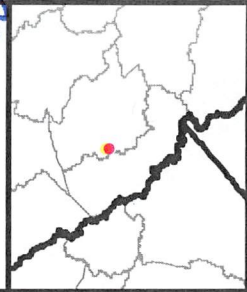
216301

Plugging Map

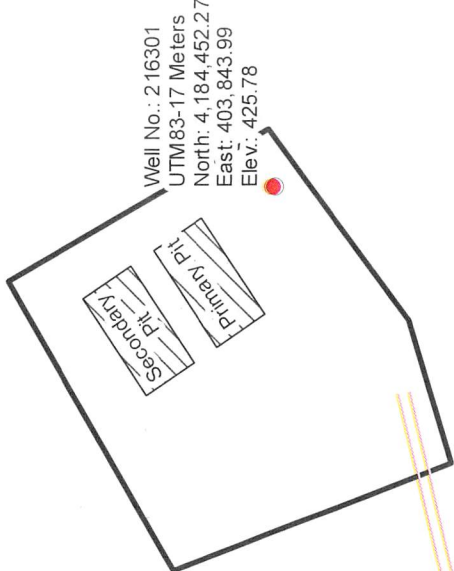
**Legend**

- Public Roads
- Pits
- Well
- Access Road
- Sediment Control
- Pad

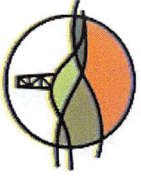
47-045-01356A



1" = 50'



RECEIVED  
 Office of Oil and Gas  
 MAY 10 2019  
 WV Department of  
 Environmental Protection



Diversified Gas & Oil Corporation  
100 Diversified Way  
Pikeville KY, 41051

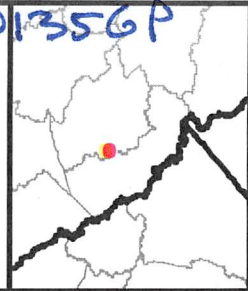
216301

Plugging Map

### Legend

- Public Roads
- Well
- Access Road
- Sediment Control
- Pad

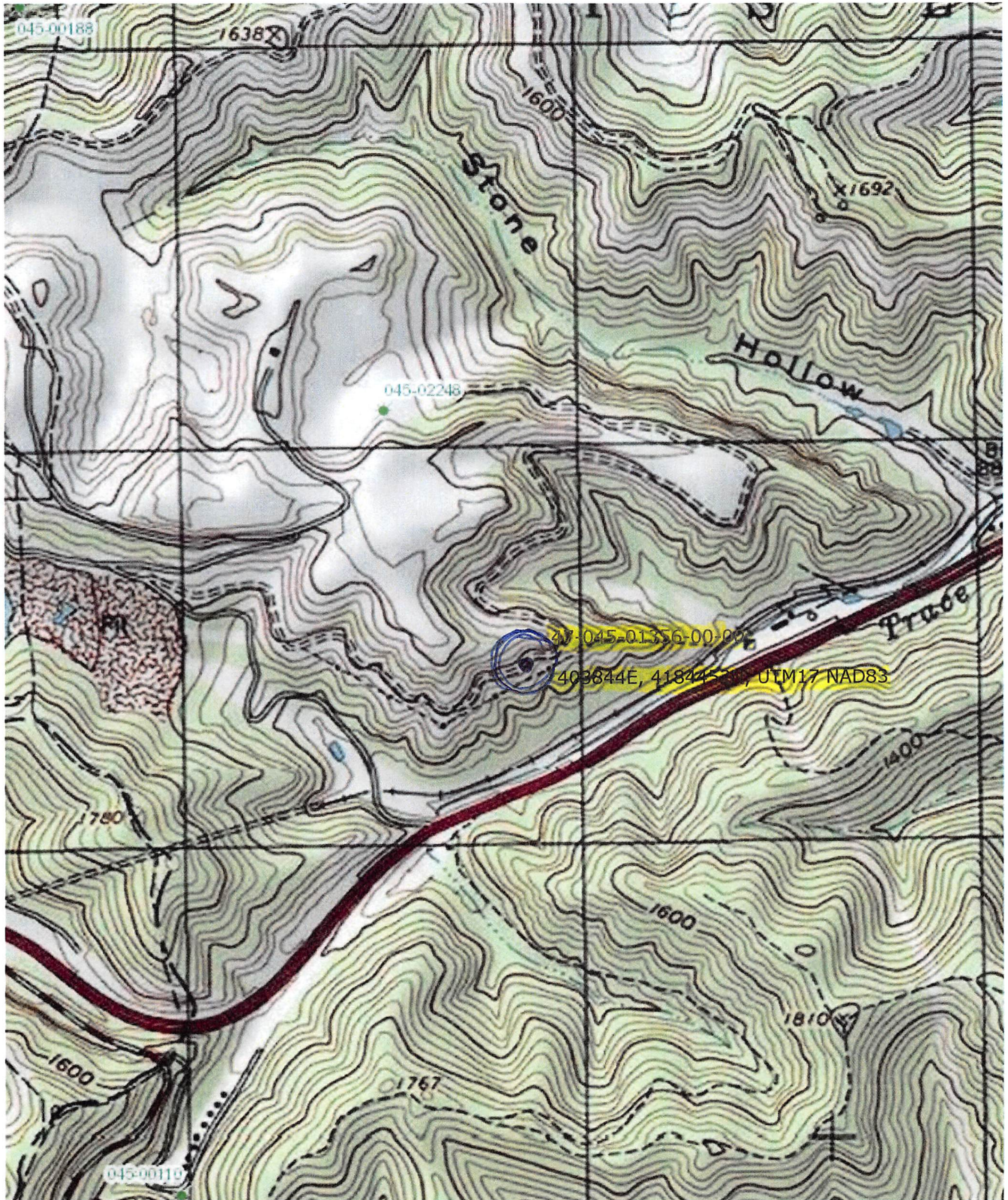
47-045-01356P



1" = 500'







WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-045-01356 WELL NO.: 216301

FARM NAME: Island Creek Coal Co. D108

RESPONSIBLE PARTY NAME: Alliance Petroleum Corporation, LLC

COUNTY: Logan DISTRICT: Island Creek

QUADRANGLE: Holden 7.5'

SURFACE OWNER: Heartwood Forestland Group

ROYALTY OWNER: Island Creek Coal Company

UTM GPS NORTHING: 4,184,452.27 m (1397')

UTM GPS EASTING: 403,843.99 m GPS ELEVATION: 425.78 m

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 X  
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.

[Signature]  
Signature

Engineer III  
Title

5/14/19  
Date