



west virginia department of environmental protection

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)

Wednesday, May 8, 2019  
WELL WORK PERMIT  
Vertical / Plugging

ALLIANCE PETROLEUM CORPORATION  
101 MCQUISTON DR.

JACKSON CENTER, PA 16133

Re: Permit approval for 1A WACO-659  
47-021-04985-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: 1A WACO-659  
Farm Name: EDGAR JR. AND AUDREY D<sub>H</sub>  
U.S. WELL NUMBER: 47-021-04985-00-00  
Vertical Plugging  
Date Issued: 5/8/2019

I

47-021-04905P

05/10/2019

## 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 05/10/2019  
2) Operator's  
Well No. DUELLEY #1A-W659  
3) API Well No. 47-021-04985

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

5) Location: Elevation 829' 800' Watershed Tanner Creek  
District Dekalb County Gilmer Quadrangle Burnt House 7.5'

6) Well Operator Alliance Petroleum Corporation 7) Designated Agent David Dean  
Address 4150 Belden Village Ave. NW Suite 410 Address 1997 Old Weston Road  
Canton, Ohio 44718-2553 Buckhannon, WV 26201

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Danny Mullins Name \_\_\_\_\_  
Address 220 Jack Acres Rd Address \_\_\_\_\_  
Buckhannon WV 26201

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

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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 Danny Mullins Date 3-11-19

## PLUGGING PROGNOSIS

155591  
West Virginia, Gilmer County  
API # 47-021-04985

TD = 6195'

**Casing Schedule**

8 5/8" csg @ 865'. Cemented to surface  
4 1/2" csg @ 6131' cemented w/ 920 cu ft. Estimated TOC at 2100' (7.875 hole)

**Completion**

4 stage completion

- 1st Stage: Devonian Shale 5251'- 6053'
- 2nd Stage: Alexander, Benson, Riley 4342'- 4797'
- 3rd Stage: Riley, Balltown 3941'- 4170'
- 4th Stage: Balltown, Speechly 3025'- 3655'

**Fresh Water:** 71'**Saltwater:** 969'**Oil Show:** None Reported**Gas Show:** None Reported**Coal:** None Reported

1. Notify inspector, Danny Mullins @ 304-932-6844, 48 hrs. prior to commencing operations.
2. Kill well as needed w/ 6% bentonite gel
3. TIH w/ tbg to TD (6053')
  - a. Pump 802' C1A cement plug 5251'- 6053'
4. TOOH w/ tbg to 5251'
  - a. Pump 6% bentonite gel 4900'- 5251'
5. Set CIBP @ 5000' and then 4900'
6. TIH w/ tbg to 4900'
  - a. Pump 100' C1A Cement plug 4800'- 4900'
7. TOOH w/ tbg to 4800'
  - a. Pump 6% bentonite gel 4342'- 4800'
8. TOOH w/ tbg to 4342'
  - a. Pump 100' C1A Cement plug 4242'- 4342'
9. TOOH w/ tbg to 4242'
  - a. Pump 6% bentonite gel 3941'- 4242'
10. TOOH w/ tbg to 3941'
  - a. Pump 100' C1A Cement plug 3841'- 3941'
11. TOOH w/ tbg to 3841'
  - a. Pump 6% bentonite gel 3025'- 3841'
12. TOOH w/ tbg to 3025'
  - a. Pump 100' C1A Cement plug 2925'- 3025'
13. TOOH w/ tbg to 2925'
  - a. Pump 6% bentonite gel 2150'- 2925'
14. TOOH w/ tbg. Free point 4 1/2" csg or calculate stretch. Cut 4 1/2" csg at free point and TOOH w/ csg. Set 100' C1A cement plug 50' below/50' above any unsuccessful attempts.
15. TIH w/ tbg to 2150'
  - a. Pump 100' C1A Cement plug 2050'- 2150'
  - b. Depth will change based on free pointing csg
16. TOOH w/ tbg to 2050'
  - a. Pump 6% bentonite gel 965'- 2050'
17. TOOH w/ tbg to 965'

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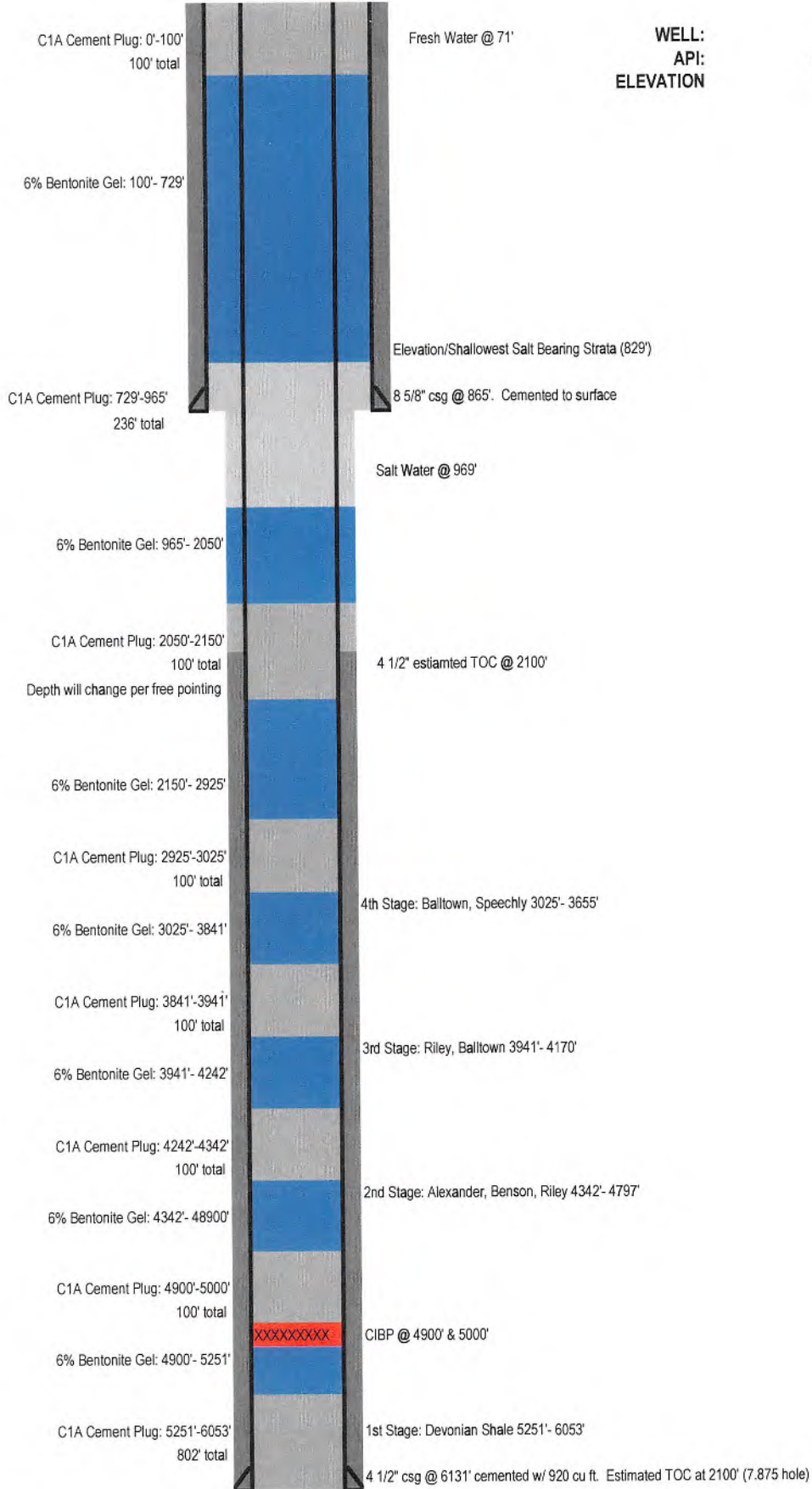


- a. Pump 236' C1A Cement plug 729'- 965'
- 18. TOOH w/ tbg to 729'
  - a. Pump 6% bentonite gel 100'- 729'
- 19. TOOH w/ tbg to 100'
  - a. Pump 100' C1A Cement plug 0'- 100'
- 20. Erect monument per WV DEP standards.
- 21. Reclaim location and road to WV-DEP specifications.

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**CASING DETAIL**



WELL: 155591  
API: 47-021-04985  
ELEVATION: 829'

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**JAN 08 A.M.**  
 DEPARTMENT OF ENERGY

API # 47- 21-04985 P  
 05/10/2019

State of West Virginia  
 DEPARTMENT OF ENERGY  
 Division of Oil and Gas

Reviewed TMG  
 Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: **DUELLEY, EDGAR ETUX** Operator Well No.: **1A WACO-659**

LOCATION: Elevation: **829.00** Quadrangle: **BURNT HOUSE**

District: **DEKALB** County: **GILMER**  
 Latitude: **11910 Feet South of 39 Deg. 2 Min. 30 Sec.**  
 Longitude: **3410 Feet West of 80 Deg. 55 Min. 0 Sec.**

Company: **WACO OIL & GAS CO., INC.**  
 1297 N. LEWIS ST.  
 GLENVILLE, WV 26351-0000

Agent: **STEPHEN E. HOLLOWAY**

Inspector: **CRAIG DUCKWORTH**  
 Permit Issued: 08/30/91  
 Well work Commenced: 8/30/91  
 Well work Completed: 9/6/91  
 Verbal Plugging \_\_\_\_\_  
 Permission granted on: \_\_\_\_\_  
 Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 6195'  
 Fresh water depths (ft) \_\_\_\_\_  
71'  
 Salt water depths (ft) \_\_\_\_\_  
969'  
 Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): NONE

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. F surface
8 5/8"	865'	865'	260 ft <sup>3</sup>
4 1/2"		6131'	920 ft <sup>3</sup> <sup>2100'</sup>

OPEN FLOW DATA

See

Producing formation Shale, Alexander, Benson Pay zone depth (ft) \_\_\_\_\_ treatment \_\_\_\_\_  
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A BE  
 Final open flow 1679 MCF/d Final open flow SHOW Bb  
 Time of open flow between initial and final tests 4 Hc  
 Static rock Pressure 1420 psig (surface pressure) after 48 Hc

Second producing formation Riley, Balltown, Speechly Pay zone depth (ft) <sup>See</sup> \_\_\_\_\_ TREATMENT \_\_\_\_\_  
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A BE  
 Final open flow 1679 MCF/d Final open flow SHOW Bb  
 Time of open flow between initial and final tests 4 Ho  
 Static rock Pressure 1420 psig (surface pressure) after 48 Hc

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATION 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: WACO OIL & GAS CO., INC.

By: Harry Lay, P.E.  
 Date: 10/11/91

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**FEB 11 92**  
 Division of Energy  
 and Gas Services

GIL. 04985

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

- 1st Stage: Devonian Shale (5252-6053) 1000 gal. 15% HCl, 40 tons CO<sub>2</sub>, 613500 scf N<sub>2</sub>
- 2nd Stage: Alexander, Benson, Riley (4342-4797) 700 gal 15% HCl, 40 tons CO<sub>2</sub>, 820500 scf N<sub>2</sub>
- 3rd Stage: Riley, Balltown (3941-4170) 700 gal 15% HCl, 40 tons CO<sub>2</sub>, 847000 scf N<sub>2</sub>
- 4th Stage: Balltown, Speechly (3025-3655) 700 gal 15% HCl, 40 tons CO<sub>2</sub>, 1150500 scf N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale			0	81	
Sand, Shale, Red Rock			81	906	
Sand, Shale			906	1676	
Big Lime			1676	1712	
Big Injun			1712	1811	
Sand, Shale			1811	3016	
Speechly Section			3016	3320	
Shale			3320	3400	
Balltown Section			3400	3968	
Riley Section			3968	4450	
Shale			4450	4504	
Benson			4504	4509	
Shale			4509	4712	
Alexander			4712	4796	
Shale			4796	4880	
Elk Section			4880	5414	
Shale			5414	T.D.	

588-1



WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
DUELLEY #1A-W659

3) API Well No.: 47 - 021 - 04985

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

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4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>DUELLEY EDGAR JR &amp; AUDREY</u>	Name _____
Address <u>1519 NEWBERNE RD,</u>	Address _____
<u>COXS MILLS, WV 26342</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Lynn B Cooper Junior &amp; Patty J Cooper</u>
	Address <u>210 Castle Road,</u>
	<u>Anderson, SC 29621</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Rd</u>	Name _____
<u>Buckhannon WV 26201</u>	Address _____
Telephone <u>304-932-6844</u>	

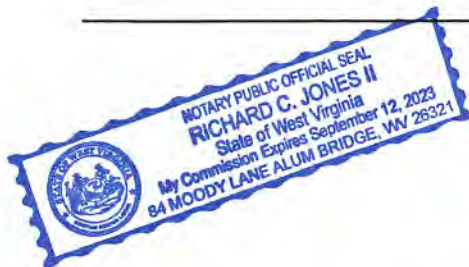
WV Department of  
Environmental Protection

**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 CO LLC  
 By: David Dean  
 Its: Vice President Production  
 Address 1997 Old Weston Road  
Buckhannon, WV 26201  
 Telephone 304-471-2319

Subscribed and sworn before me this 12 day of Feb, 2019  
Richard C. Jones II Notary Public  
My Commission Expires Sept 12, 2023

Oil and Gas Privacy Notice

Richard C. Jones II

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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

05/10/2019

WW-9  
(5/16)

API Number 47 - 021 - 04985  
Operator's Well No. DUCELLEY #1A-W659

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

Operator Name Alliance Petroleum CO LLC OP Code 494506333

Watershed (HUC 10) Tanner Creek Quadrangle Burnt House 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: N/A

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 340092321, 340092323, 340092324 )
- 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. No drilling anticipated

-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. N/A

-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 Deane

Company Official (Typed Name) \_\_\_\_\_

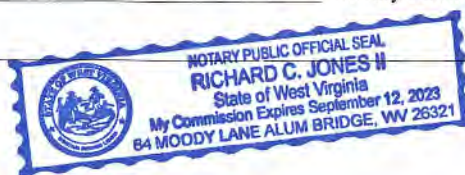
Company Official Title VP Production

Subscribed and sworn before me this 12 day of Feb, 20 19

Richard C. Jones II Notary Public

My commission expires Sept 12, 2023

Richard C. Jones II



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Proposed Revegetation Treatment: Acres Disturbed 1.25 +/- Prevegetation pH TBD

Lime TBD Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20 or equivalent

Fertilizer amount 500 (MINIMUM) lbs/acre

Mulch HAY OR STRAW 2 TONS/ACRE Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Blue Grass	12	Orchard Grass	15
Alsike Clover	10	Alsike Clover	5
Annual Rye	10		

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: Dennis Malin

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

Title: ODG Inspector Date: 3-11-19

Field Reviewed? ( ) Yes (  ) No

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: Alliance Petroleum CO LLC  
Watershed (HUC 10): Tanner Creek Quad: Burnt House 7.5'  
Farm Name: \_\_\_\_\_

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

A contract service will be used to treat fluids in the pit to obtain the proper PH 6.5 Rig and pumping equipment will be used to cut and remove casing, pumping cement and gel, mixing of water, cement and gel in above ground tanks.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.

[Empty rectangular box for text entry]

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Silt fences will be installed around the work area. A pit will be constructed and a ditch from the wellhead to divert and contain any fluid from the work area.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

A JSA will be completed each day on the job site to discuss the procedures, safety and inspection of all GPP elements and equipment.

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Signature: *Daniel Dean*

Date: 02/10/2019



WE1356

WV

Glimer

032079

155591

03209 47-021-04985-00

WE1162

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





05/10/2019

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community







WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4702104985 WELL NO.: 1A-W659

FARM NAME: Duelley

RESPONSIBLE PARTY NAME: Alliance Petroleum, CO LLC

COUNTY: Gilmer DISTRICT: Dekalb

QUADRANGLE: Burnt House 7.5'

SURFACE OWNER: Edgar Jr. and Audrey Duelley

ROYALTY OWNER: Lynn B. Cooper Jr.

UTM GPS NORTHING: 4,317,743.65m

UTM GPS EASTING: 506,190.96m GPS ELEVATION: 800'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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.

[Signature]  
Signature

Engineer III  
Title

2/8/2019  
Date

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