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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, May 7, 2019

WELL WORK PLUGGING PERMIT  
 Vertical Plugging

ALLIANCE PETROLEUM CORPORATION  
 101 MCQUISTON DR.

JACKSON CENTER, PA 16133

Re: Permit approval for 1A WACO-661  
 47-021-04993-00-00

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: 1A WACO-661  
 Farm Name: COASTAL FOREST RESOURCES  
 U.S. WELL NUMBER: 47-021-04993-00-00  
 Vertical Plugging  
 Date Issued: 5/7/2019

I

47-021-04993 P

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. ANDERSON #1A-W661  
3) API Well No. 47-021 - 04993

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 998' Watershed Ellis Fork  
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 Name Danny Mullins  
Address 220 Jack Acres Rd  
Buckhannon WV 26201  
9) Plugging Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_

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  
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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

153551

West Virginia, Gilmer County

API # 47-021-04993

**Casing Schedule**

8 5/8" csg @ 1001'. Cemented to surface

4 1/2" csg @ 6275' cemented w/ 700 sxs. Estimated TOC at 2650' (700 sx, 1.18 yield, 7.875 hole)

**Completion**

4 stage completion

- 1st Stage: Devonian Shale 5409'- 6210'
- 2nd Stage: Alexander, Benson, Riley 4507'- 4965'
- 3rd Stage: Riley, Balltown 3898'- 4363'
- 4th Stage: Balltown, Speechly 3217'- 3792'

**Fresh Water:** None Reported**Saltwater:** None Reported**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 (6275')
  - a. Pump 866' C1A Cement plug 5409'- 6275')
4. TOOH w/ tbg to 5409'
  - a. Pump 6% bentonite gel 5100'- 5409'
5. TOOH w/ tbg
6. Set CIBP @ 5200' and then 5100'
7. TIH w/ tbg to 5100'
  - a. Pump 100' C1A Cement plug 5000'- 5100'
8. TOOH w/ tbg to 5000'
  - a. Pump 6% bentonite gel 4507'- 5000'
9. TOOH w/ tbg to 4507'
  - a. Pump 100' C1A Cement plug 4407'- 4507'
10. TOOH w/ tbg to 4407'
  - a. Pump 6% bentonite gel 3898'- 4407'
11. TOOH w/ tbg to 3898'
  - a. Pump 100' C1A Cement plug 3798'- 3898'
12. TOOH w/ tbg to 3798'
  - a. Pump 6% bentonite gel 3217'- 3798'
13. TOOH w/ tbg to 3217'
  - a. Pump 100' C1A Cement plug 3117'- 3217'
14. TOOH w/ tbg to 3117'
  - a. Pump 6% bentonite gel 2700'- 3117'
15. 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.
16. TIH w/ tbg to 2700'
  - a. Pump 100' C1A Cement plug 2600'- 2700'
  - b. Depth will change based on free pointing csg

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17. TOOH w/ tbg to 2600'
  - a. Pump 6% bentonite gel 1101'- 2600'
18. TOOH w/ tbg to 1101'
  - a. Pump 203' C1A Cement plug 898'- ~~3217'~~ <sup>1100'</sup>
19. TOOH w/ tbg to 898'
  - a. Pump 6% bentonite gel 100'- 898'
20. TOOH w/ tbg to 100'
  - a. Pump 100' C1A Cement plug 0'- 100'
21. Erect monument per WV DEP standards.
22. Reclaim location and road to WV-DEP specifications.

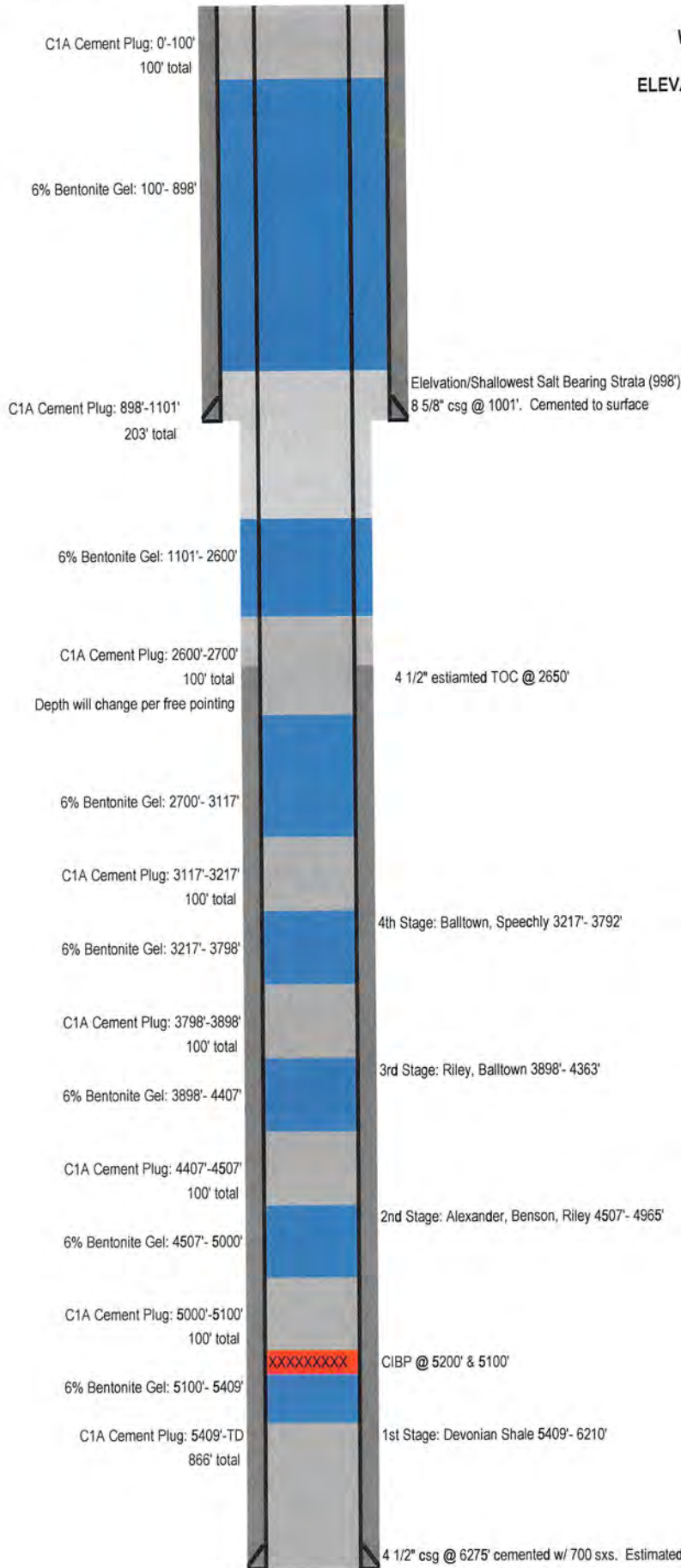
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**CASING DETAIL**

WELL: 153551  
API: 47-021-04993  
ELEVATION: 998'



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

Reviewed TMG

Well Operator's Report of Well Worked

Farm name: ANDERSON, JAMES W. Operator Well No.: 1A WACO-66i

LOCATION: Elevation: 998.00 Quadrangle: BURNT HOUSE

District: DEKALB County: GILMER  
Latitude: 10910 Feet South of 39 Deg. 2 Min. 30 Sec.  
Longitude 4600 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: 10/08/91  
Well work Commenced: 10/09/91  
Well work Completed: 10/13/91  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 6335'  
Fresh water depths (ft) \_\_\_\_\_  
None Reported  
Salt water depths (ft) \_\_\_\_\_  
NONE  
Is coal being mined in area (Y/N)? X  
Coal Depths (ft): None

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 8-5/8"               | 1001             | 1001         | C.T.S.                 |
| 4-1/2"               |                  | 6,275        | 700 Sk.                |
|                      |                  |              |                        |
|                      |                  |              |                        |

OPEN FLOW DATA

Producing formation Shale, Elk, Alexander, Benson Pay zone depth (ft) See treatment  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 1750 MCF/d Final open flow SHOW Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1510 psig (surface pressure) after 48 Hours

Second producing formation Riley, Balltown, Specchy Pay zone depth (ft) See treatment  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 1750 MCF/d Final open flow SHOW Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1510 psig (surface pressure) after 48 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: WACO OIL & GAS CO., INC.

By: Daniel R. Chapman, Geologist  
Date: October 25, 1991

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FEB 11 92  
Division of Energy  
(Oil and Gas Section)

04993

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

- 1st stage: Devonian Shale, Elk (6210-5409) 1000 gal 15% HCL, 40 ton CO<sub>2</sub>, 774 MCF N<sub>2</sub>  
 2nd stage: Alexander, Benson, Riley (4965-4507) 675 gal 15% HCL, 40 ton CO<sub>2</sub>, 888 MCF N<sub>2</sub>  
 3rd stage: Riley, Balltown (4363-3898) 675 gal 15% HCL, 38 ton CO<sub>2</sub>, 912 MCF N<sub>2</sub>  
 4th stage: Balltown, Speechly (3792-3217) 675 gal 15% HCL, 33 ton CO<sub>2</sub>, 950 MCF N<sub>2</sub>

## WELL LOG

| FORMATION             | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS<br>Including indication of all fresh and salt water, coal, oil and gas |
|-----------------------|-------|--------------|----------|-------------|--------------------------------------------------------------------------------|
| Sand, Shale           |       |              | 0        | 177         | No water reported                                                              |
| Sand, Shale, Red Rock |       |              | 177      | 554         |                                                                                |
| Sand, Shale           |       |              | 554      | 1805        |                                                                                |
| Little Lime           |       |              | 1805     | 1822        |                                                                                |
| Blue Monday           |       |              | 1822     | 1856        |                                                                                |
| Big Lime              |       |              | 1856     | 1896        |                                                                                |
| Big Injun             |       |              | 1896     | 1996        |                                                                                |
| Sand, Shale           |       |              | 1996     | 3211        |                                                                                |
| Speechly Section      |       |              | 3211     | 3536        |                                                                                |
| Shale                 |       |              | 3536     | 3596        |                                                                                |
| Balltown Section      |       |              | 3596     | 4192        |                                                                                |
| Riley Section         |       |              | 4192     | 4629        |                                                                                |
| Shale                 |       |              | 4629     | 4687        |                                                                                |
| Benson                |       |              | 4687     | 4692        |                                                                                |
| Shale                 |       |              | 4692     | 4892        |                                                                                |
| Alexander             |       |              | 4892     | 4974        |                                                                                |
| Shale                 |       |              | 4974     | 5076        |                                                                                |
| Elk Section           |       |              | 5076     | 5412        |                                                                                |
| Shale                 |       |              | 5412     | 6335        | T. D.                                                                          |

(Attach separate sheets as necessary)



WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
ANDERSON #1A-W661

3) API Well No.: 47 - 021 - 04993

**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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Environmental Protection

4) Surface Owner(s) to be served:

(a) Name COASTAL FOREST RESOURCES COMPANY ✓  
Address PO BOX 709  
BUCKHANNON, WV 26201

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Danny Mullins  
Address 220 Jack Acres Rd  
Buckhannon WV 26201  
Telephone 304-932-6844

5) (a) Coal Operator

Name \_\_\_\_\_  
Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration

Name Geneva M. Anderson Revocable Living ✓  
Address 1818 Whispering Ines Circle  
Englewood FL 34233

Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration

Name \_\_\_\_\_  
Address \_\_\_\_\_

**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 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 *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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-9  
(5/16)

API Number 47 - 021 - 04993  
Operator's Well No. ANDERSON #1A-W661

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) Ellis Fork 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: 0

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 3400923821, 3400923823, 3400923824 )
- 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 Dean

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

Company Official Title VP Production

Subscribed and sworn before me this 12 day of Feb, 2019

Richard C. Jones II Notary Public

My commission expires Sept 12, 2023

Richard C. Jones II



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47-021-04993P

05/10/2019

Form WW-9

Operator's Well No. ANDERSON #1A-W661

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: Dave Miller

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

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Title: OGG 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): Ellis Fork 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.

FLUIDS WILL BE DISPOSED IN VIC WELLS. JWM

- 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.

\_\_\_\_\_

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

\_\_\_\_\_

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

05/10/2019

WW-9- GPP  
Rev. 5/16

Page 2 of 2  
API Number 47 - 021 - 04993  
Operator's Well No. ANDERSON # 1A-4661

[Empty rectangular box]

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.

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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: David Deen

Date: 03/12/2019





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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



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