



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, October 21, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

ALLIANCE PETROLEUM CO., LLC
101 MCQUISTON DR

JACKSON CITY, PA 16133

Re: Permit approval for CNGD 3694
47-047-01080-00-00

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: CNGD 3694
Farm Name: IMPERIAL RESOURCES,LLC
U.S. WELL NUMBER: 47-047-01080-00-00
Vertical Plugging
Date Issued: 10/21/2019

Promoting a healthy environment.

I

47-047-01080P

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

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.

WW-4B
Rev. 2/01

1) Date 9-23-, 2019
2) Operator's
Well No. _____
3) API Well No. 47- - _____

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 2562' Watershed Elkhorn Creek
District Elkhorn County McDowell Quadrangle Keystone

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 9) Plugging Contractor
Name Gary Kennedy Name R and J Well Service
Address 66 Old Church Lane Address 1087 Raccoon Rd.
Pipestem, WV. 25979 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.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence. WV Department of Environmental Protection

Work order approved by inspector  Date 10/7/19

PLUGGING PROGNOSIS

CNGD 3694
West Virginia, McDowell County
API # 47-047-01080

Casing Schedule

8 5/8" csg @ 1197' cemented to surface
4 1/2" csg @ 4623' cemented w/ 100 sks Estimated TOC at 3700' (6.75" hole, 1.28 yield)
TD @ 4623'

Completion

- Weir: 4542'- 4565' (24H)

Fresh Water: None reported

Gas Shows: None Reported

Oil Shows: None Reported

Saltwater: None reported

Elevation: 2562'

Coal: 510' - 515', 578' - 580'

1. Notify inspector, Gary Kennedy @ 304-382-8402, 48 hrs. prior to commencing operations.
2. Check and record pressure on csg.
3. Check TD w/ wireline
4. TIH w/ tbg to 4542'. Kill well as needed w/ 6% bentonite gel. Pump 100' C1A cement plug 4442'-4542' *WOC, TAG CEMENT, ADD CEMENT IF NEEDED.*
5. TOO H w/ tbg to 4442'. Pump 65 bentonite gel from 2562'- 4442'.
6. TOO H w/ tbg. Free point 4 1/2" csg and cut 4 1/2" csg. Set 100' C1A cement plug across the csg cut. 50' in/out of cut. *WOC, TAG CEMENT, ADD CEMENT IF NEEDED.*
7. TIH w/ tbg to 2562'. Pump 100' C1A cement plug from 2462'- 2562' *WOC, TAG & ADD CEMENT IF NEEDED.*
8. TOO H w/ tbg to 2362'. Pump 6% bentonite gel from 1247'- 2462'
9. TOO H w/ tbg to 1247'. Pump 100' C1A cement plug from 1147'- 1247' *WOC, TAG & ADD CEMENT IF NEEDED.*
10. TOO H w/ tbg to 1147'. Pump 6% bentonite gel from 630'- 1147'
11. TOO H w/ tbg to 630'. Pump 170' C1A cement plug from 460'- 630'
12. TOO H w/ tbg to 460'. Pump 6% bentonite gel from 100'- 460'
13. TOO H w/ tbg to 100'. Pump 170' C1A cement plug from surface'- 100'
14. Erect monument with API#, date plugged, & company name.
15. Reclaim location and road to WV-DEP specifications.



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WV Department of
Environmental Protection

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

Well Operator's Report of Well Work

Farm name: CONSOLIDATION COAL CO. Operator Well No.: CNGD 3694

LOCATION: Elevation: 2562.00 Quadrangle: KEYSTONE

District: ELKHORN County: MCDOWELL
Latitude: 12425 Feet South of 37 Deg. 25Min. 0 Sec.
Longitude 8350 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: CNG DEVELOPMENT CO. A DEL
P. O. BOX 15746
PITTSBURGH, PA 15244-0000

Agent: RODNEY J. BIGGS

Inspector: TIM BENNETT
Permit Issued: 10/23/89
Well work Commenced: 12/30/89
Well work Completed: 01/06/90
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 4710
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 510-515; 578-580

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To Surf.
8 5/8	1197	1197	
4 1/2	4623	4623	100 sks

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FEB 05 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 4542-4565
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
1/24/90 Final open flow 1.715 M MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 310 psig (surface pressure) after 1 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 _____ Bbl/d
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.

Rodney J. Biggs, Manager
For: CNG DEVELOPMENT CO. A DEL. CORP.
By: Rod Biggs
Date: January 29, 1990

MCDOWELL 1080

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WV Department of
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Perforated Weir 4542 - 4565, 24 holes, .41 Bi-Wire
 Foam Frac - Breakdown 3200, 453,000 SCFN₂, 500 gal acid, 177 bbl SL Fluid, 230 bbl
 Clean Fluid, Ave Rate 20 BPM, Ave Pres. 1650#, 75,000# Sand.

Rock	0	510	Coal:	510 - 515
Coal	510	515		578 - 580
Sd & Sh	515	578		
Coal	578	580		
Sd, Sh	580	1456		
Ravencliff	1456	1780		
Sand	1780	1825		
Avis Lime	1825	1870		
Sd & Sh	1870	2460		
U. Maxton	2460	2540		
Sd & Sh	2540	2790		
Maxton	2790	2855		
Sd & Sh	2855	2890		
L. Maxton	2890	2970		
Sd & Sh	2970	3125		
L. Lime	3125	3255		
Sd & Sh	3255	3330		
B. Lime	3330	4230		
Sd & Sh	4230	4495		
Weir	4495	4525		
Shale	4525	4710		

LOG TOPS

Ravencliff	1455	1798
Avis	1809	1858
M. Maxton	2657	2697
Little Lime	3126	3233
Big Lime	3323	4273
Weir	4535	4567

dk

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 DEPARTMENT OF ENERGY

9660

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OCT 16 2019

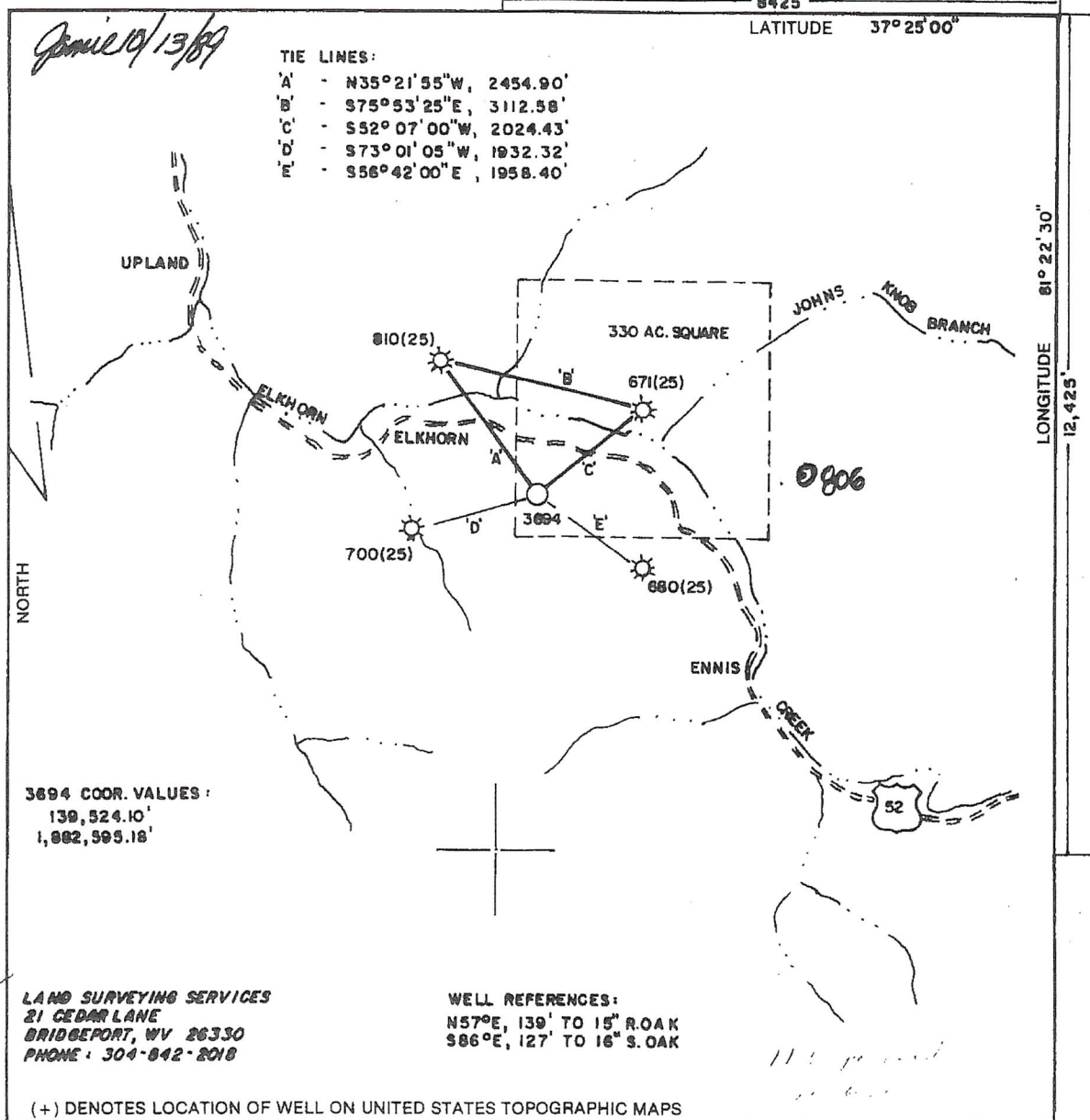
WV Department of
 Environmental Protection

Jan 10/13/89

TIE LINES:
 'A' - N35°21'55"W, 2454.90'
 'B' - S75°53'25"E, 3112.58'
 'C' - S52°07'00"W, 2024.43'
 'D' - S73°01'05"W, 1932.32'
 'E' - S56°42'00"E, 1958.40'

LATITUDE 37° 25' 00"

LONGITUDE 81° 22' 30"
12,425'



3694 COOR. VALUES:
 139,524.10'
 1,882,595.18'

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

WELL REFERENCES:
 N57°E, 139' TO 15" R.OAK
 S86°E, 127' TO 16" S.OAK

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 2500
 PROVEN SOURCE OF ELEVATION BM 2000' NE OF LOCATION ELEV. 1963'

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.
 (SIGNED) *[Signature]*
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MAY 07, 1989
 OPERATOR'S WELL NO. 3694
 API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 2562' WATER SHED ELKHORN CREEK
 DISTRICT ELKHORN COUNTY Mc DOWELL STATE COUNTY PERMIT

QUADRANGLE KEYSTONE 7.5 min.
 SURFACE OWNER CONSOLIDATION COAL CO. ACREAGE 946.23
 OIL & GAS ROYALTY OWNER CONSOLIDATION COAL CO. LEASE ACREAGE 11,000

LEASE NO. 07829
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION WEIR ESTIMATED DEPTH 4710'
 WELL OPERATOR CNO DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY B1663
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

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 COUNTY NAME
 OCT 26 2019
 WV Department of Environment & Natural Resources
 PERMIT NO. 080

P.Y. HALL -8673 FORM WW-8

WW-4A
Revised 6-07

1) Date: 9-23-2019
2) Operator's Well Number
CNGD 3694

3) API Well No.: 47 - 047 - 01080

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

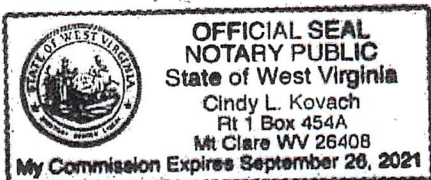
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name: Imperial Resources, LLC	Name: Imperial Resources, LLC
Address: 640 Clover Dew Dairy Road Princeton, WV 24739	Address: 640 Dew Dairy Road Princeton, WV 24739
(b) Name: _____	(b) Coal Owner(s) with Declaration
Address: _____	Name: Same as above
(c) Name: _____	Address: _____
Address: _____	Name: _____
Address: _____	Address: _____
6) Inspector: Gary Kennedy	(c) Coal Lessee with Declaration
Address: 66 Old Church Lane	Name: _____
Pipeslem, WV 25979	Address: _____
Telephone: 304-382-8407	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-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 Deane
 Its: VP Production
 Address: 1997 Old Westons Rd.
 Buckhannon, WV 26201
 Telephone: 304-471-2319

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OCT - 2 2019

Subscribed and sworn before me this 30th day of Sept. 2019
Cindy L. Kovach Notary Public
My Commission Expires Oct. 26, 2021

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 dep@privacy.officer.wva.gov.

WW-9
(5/16)

API Number 47 - 047 - 01080
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) Elkhorn Quadrangle Keystone

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: _____

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 2004701511002)
- 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 VP Production

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Office of Oil and Gas

OCT 16 2019

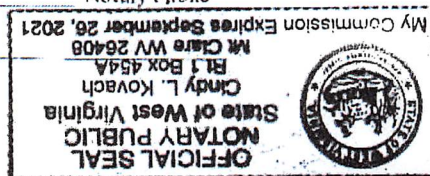
WV Department of
Environmental Protection

Subscribed and sworn before me this 30th day of Sept., 2019

Cindy L. Kovach

Notary Public

My commission expires 09/26/2021



Operator's Well No. _____

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

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

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.

PIT DIMENSION \leq 10' x 50' x 8' DEEP
gum

Plan Approved by: [Signature]

Comments: _____

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OCT 16 2019

WV Department of
Environmental Protection

Title: Inspector

Date: 10/7/19

Field Reviewed? () Yes () No



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OCT 16 2019

Department of
Environmental Protection



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-047-01080 WELL NO.: CNGD 3694

FARM NAME: Consolidation Coal

RESPONSIBLE PARTY NAME: Alliance Petroleum Company, LLC

COUNTY: McDowell DISTRICT: Elkhorn

QUADRANGLE: Keystone

SURFACE OWNER: Imperial Resources, LLC

ROYALTY OWNER: Imperial Resources, LLC

UTM GPS NORTHING: 464,251.41

UTM GPS EASTING: 4,137,391.76 GPS ELEVATION: 775.64 (meters)

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.

Signature [Handwritten Signature]

Title Engineer III

Date 9-20-19

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