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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)

Thursday, March 5, 2020  
WELL WORK PERMIT  
Vertical / Plugging

KEY OIL COMPANY  
22 GARTON PLAZA

WESTON, WV 264520000

Re: Permit approval for NOLAND 2  
47-085-09253-00-00

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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: NOLAND 2  
Farm Name: NOLAND, DARRELL & JOY  
U.S. WELL NUMBER: 47-085-09253-00-00  
Vertical Plugging  
Date Issued: 03/05/2020

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47-085-0925

## 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 March 3, 2020  
2) Operator's  
Well No. NOLAND #2  
3) API Well No. 47-085 - 09253 P

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

5) Location: Elevation 1084.27 Watershed Horner Run  
District Clay County Ritchie Quadrangle Pennsboro 7.5

6) Well Operator Key Oil Company 7) Designated Agent Jan Chapman  
Address 22 Garton Plaza Address 22 Garton Plaza  
Weston, WV 26452 Weston, WV 26452

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Michael Goff Name Stalnaker Energy Services, LLC  
Address 1723 Auburn Road Address 220 West Main Street  
Pullman, WV 26421 Glennville, WV 26351

10) Work Order: The work order for the manner of plugging this well is as follows:  
**SEE ATTACHED WORK ORDER**

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Office of Oil and Gas  
MAR 05 2020  
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 Michael Goff Date 3-3-20

**PLUGGING PROCEDURE  
KEY OIL COMPANY  
NOLAND #2  
API #47-085-09253  
Elevation 1084.27**

**DATA:**

4-1/2" Casing to 5054'  
Top of Cement - Estimate @ 4250'  
8 5/8" Casing - 1097" - CTS  
Perforations - 4946' to 4949'

**CAPACITIES:**

2-3/8" Tubing - 262 Ft./Bbl  
4-1/2" Casing - 62 Ft./Bbl  
7 7/8" Open Hole - 16.6 Ft./Bbl  
8 5/8" Casing - 15.7./Bbl

**PRODECURE:**

1. Check pressure on 4 1/2" casing and 8 5/8" casing.
2. Rig up and kill well with sufficiently weighted gelled fluid.
3. Run in hole with sandline tools and tag bottom of hole. Ensure that TD is below perforations ae 4949'
4. Rig up and run 2 3/8" tubing to TD, estimated 5050'
5. Set Cement Plug From TD to 4800'
  - a. 21 Sacks of Cement, 250' plug.
  - b. Displace With 17 Bbls of Water to balance plug.
6. Pull tubing to above top of cement and lay down tubing. Shut in well head to prevent cement moving up hole. WOC.
7. Rig up Nine Energy and tag top of cement to be sure cement top is above 4800'
8. Pull free point to determine free point of pipe above cement top estimated at 4250'.
9. Run in with Nine Energy and cut 4 1/2" casing. Make sure it is free.
10. Because of the amount of open hole estimated between the casing cut at 4200' and the bottom of the 8 5/8" casing, recommend using the 4 1/2" casing as the plugging string to prevent the hole caving in on top of the cut.
11. Mix and pump 200 foot cement plug for casing cut plug. *50' IN CASING / 150 ABOVE CUT*
  - a. 45 sacks of Class A Cement
  - b. Displace with 66 barrels of gelled water.
12. Pull 4 1/2" casing to 1150'
13. Set 150' cement plug at elevation from 1150' to 1000'
  - a. 56 Sacks of Cement
  - b. Displace with 15 barrels of gelled water.
14. Pull 4-1/2" Casing to ~~350~~ *350' MDC*
15. Set ~~350~~ *350*' Cement Plug From ~~300~~ *300*' to Surface
  - a. > 56 sks of cement'
  - b. Grout to surface
16. Pull Remaining 4-1/2" Casing From Well
17. Set Monument - 7" casing, 30" above surface identified with the API number and filled with concrete. *10' BELOW SURFACE*  
*JMM*

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Office of Oil and Gas  
MAR 05 2020  
WV Department of  
Environmental Protection

*MDC  
3-3-20*

**PLUGGING PROCEDURE**  
**KEY OIL COMPANY**  
**NOLAND #2**  
**API #47-085-09253**  
**Elevation 1084.27**

**DATA:**

4-1/2" Casing to 5054'  
 Top of Cement – Estimate @ 4250'  
 8 5/8" Casing – 1097" – CTS  
 Perforations – 4946' to 4949'

**CAPACITIES:**

2-3/8" Tubing – 262 Ft./Bbl  
 4-1/2" Casing – 62 Ft./Bbl  
 7 7/8" Open Hole – 16.6 Ft./Bbl  
 8 5/8" Casing – 15.7./Bbl

**PRODECURE:**

1. Check pressure on 4 1/2" casing and 8 5/8" casing.
2. Rig up and kill well with sufficiently weighted gelled fluid.
3. Run in hole with sandline tools and tag bottom of hole. Ensure that TD is below perforations ae 4949'
4. Rig up and run 2 3/8" tubing to TD, estimated 5050'
5. Set Cement Plug From TD to 4800'
  - a. 21 Sacks of Cement, 250' plug.
  - b. Displace With 17 Bbls of Water to balance plug.
6. Pull tubing to above top of cement and lay down tubing. Shut in well head to prevent cement moving up hole. WOC.
7. Rig up Nine Energy and tag top of cement to be sure cement top is above 4800'
8. Pull free point to determine free point of pipe above cement top estimated at 4250'.
9. Run in with Nine Energy and cut 4 1/2" casing. Make sure it is free.
10. Because of the amount of open hole estimated between the casing cut at 4200' and the bottom of the 8 5/8" casing, recommend using the 4 1/2" casing as the plugging string to prevent the hole caving in on top of the cut.
11. Mix and pump 200 foot cement plug for casing cut plug. 50' INSIDE CASING / 150' ABOVE CUT
  - a. 45 sacks of Class A Cement
  - b. Displace with 66 barrels of gelled water.
12. Pull 4 1/2" casing to 1150'
13. Set 150' cement plug at elevation from 1150' to 1000'
  - a. >56 Sacks of Cement
  - b. Displace with 15 barrels of gelled water.
14. Pull 4-1/2" Casing to 350'
15. Set 350' Cement Plug From 350' to Surface
  - a. 117 sks of cement'
  - b. Grout to surface
16. Pull Remaining 4-1/2" Casing From Well
17. Set Monument – 7" casing, 30" above surface identified with the API number and filled with concrete.

10' BELOW SURFACE  
 gwm

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 Office of Oil and Gas

MAR 05 2020

WV Department of  
 Environmental Protection

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

Well Operator's Report of Well Work

Farm Name: **Noland** Operator Well No. : **Two (2)**

LOCATION: Elevation: **1076** Quadrangle: **Pennsboro**  
 District: **Clay** County: **Ritchie**  
 Latitude: **11,830** Feet South of **39** Deg. **20** Min. **00** Sec.  
 Longitude: **6,550** Feet West of **80** Deg. **57** Min. **30** Sec.

Company:	<b>KEY OIL COMPANY</b>	Casing	Used	Left	Cement
	<b>22 GARTON PLAZA</b>	&	In	In	Fill Up
	<b>WESTON, WV 26452</b>	Tubing	Drilling	Well	Cu Ft
		<u>Size</u>	_____	_____	_____
Agent:	<b>Jan E. Chapman</b>				
Inspector:	<b>Steve Mossor</b>	<b>8-5/8"</b>	<b>1097</b>	<b>1097</b>	<b>336 Cu Ft</b>
Permit Issued:	<b>11-22-05</b>				
Well Work Commenced:	<b>10-10-06</b>	<b>4-1/2"</b>		<b>5054</b>	<b>181 Cu Ft</b>
Well Work Completed:	<b>10-30-06</b>				
Verbal Plugging					
Permission granted on:					
Rotary <input checked="" type="checkbox"/> Cable		Rig			
Total Depth ( feet )	<b>5097</b>				
Fresh water depths ( ft )	<b>327</b>				
Salt water depths ( ft )	<b>NR</b>				
Is coal being mined in area ( Y / N )?	<b>No</b>				
Coal Depths ( ft ):	<b>NR</b>				

OPEN FLOW DATA

Producing formation	<b>Benson</b>	Pay zone depth ( ft )	<b>4944-4952</b>
Gas: Initial open flow	<b>60</b> MCF / D	Oil: Initial open flow	<b>0</b> Bbl / D
Final open flow	<b>1,750</b> MCF / D	Oil: Final open flow	<b>Show</b> Bbl / D
Time of open flow between initial and final tests	<b>N/A</b>		Hours
Static rock pressure	<b>1,680</b> psig ( surface pressure )	after	<b>48</b> Hours

All Formations Comingled.

Second producing formation		Pay zone depth ( ft )	
Gas: Initial open flow	MCF / D	Oil: Initial open flow	Bbl / D
Final open flow	MCF / D	Oil: 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.

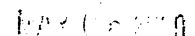
For: **KEY OIL COMPANY**

By: 

Date: **April 15, 2007**

PRESIDENT

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 Office of Oil and Gas



WV Department of  
 Environmental Protection

**Noland No. 2 (47-085-09253)**

**One-Stage Foam Frac - Universal Well Services**

**1st Stage: Benson (13 holes) (4946-4949)**

**500 GA, 60,000# 20/40 Sand and  
747 Bbls 60 Quality Foam**

**WELL LOG**

<b>KB-GL</b>	<b>0</b>	<b>10</b>
<b>Sand</b>	<b>10</b>	<b>20</b>
<b>Red Rock</b>	<b>20</b>	<b>25</b>
<b>Sand</b>	<b>25</b>	<b>40</b>
<b>Sand/Shale</b>	<b>40</b>	<b>90</b>
<b>Red Rock</b>	<b>90</b>	<b>140</b>
<b>Sand/Shale</b>	<b>140</b>	<b>171</b>
<b>Sand</b>	<b>171</b>	<b>235</b>
<b>Shale/Red Rock</b>	<b>235</b>	<b>1930</b>
<b>Little Lime</b>	<b>1930</b>	<b>1950</b>
<b>Big Lime</b>	<b>1950</b>	<b>1990</b>
<b>Big Injun</b>	<b>1990</b>	<b>2070</b>
<b>Sand/Shale</b>	<b>2070</b>	<b>3500</b>
<b>Warren</b>	<b>3500</b>	<b>3520</b>
<b>Sand/Shale</b>	<b>3520</b>	<b>3940</b>
<b>Balltown</b>	<b>3940</b>	<b>3970</b>
<b>Sand/Shale</b>	<b>3970</b>	<b>4565</b>
<b>Riley</b>	<b>4565</b>	<b>4580</b>
<b>Sand/Shale</b>	<b>4580</b>	<b>4960</b>
<b>Benson</b>	<b>4960</b>	<b>4970</b>
<b>Sand/Shale</b>	<b>4970</b>	<b>5097</b>
<b>RTD</b>	<b>5097</b>	

**Water @ 327  
Gas Ck @ 1943 - No Show**

**Gas Ck @ 2194 - No Show  
Gas Ck @ 3477 - No Show  
Gas Ck @ 3917 - No Show**

**Gas Ck @ 4568 - No Show  
Gas Ck @ 4910 - No Show**

WW-4A  
Revised 6-07

1) Date: March 3, 2020  
2) Operator's Well Number  
NOLAND #2  
3) API Well No.: 47 - 085 - 09253

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>DARREL A. NOLAND</u>	Name <u>NONE</u>
Address <u>Rt 2, Box 28A</u>	Address _____
<u>Pennsboro, WV 26415</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Michael Goff</u>	(c) Coal Lessee with Declaration
Address <u>1723 Auburn Road</u>	Name _____
<u>Pullman, WV 26421</u>	Address _____
Telephone <u>304-549-9823</u>	_____

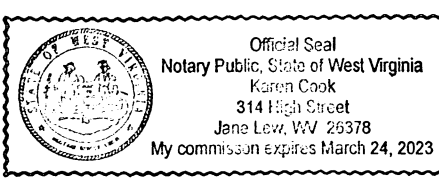
**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (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.

**RECEIVED**  
Office of Oil and Gas



Well Operator KEY OIL COMPANY

By: Jan Chapman

Its: President

Address 22 Garton Plaza

Weston, WV 26452

Telephone 304-269-7102

**MAR 05 2020**  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 4th day of March, 2020  
Karen Cook Notary Public  
My Commission Expires March 24, 2023

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



**SURFACE OWNER WAIVER**

Operator's Well  
Number

**NOLAND #2**

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC

FOR EXECUTION BY A CORPORATION,

Danell Noland  
Signature

Date 3-5-20 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

Signature

Date

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Office of Oil and Gas  
MAR 05 2020  
WV Department of  
Environmental Protection

API No. 47-085-09253 P  
Farm Name Noland  
Well No. #2

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_ / owner \_\_\_\_ / lessee \_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

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

By: \_\_\_\_\_  
Its \_\_\_\_\_

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Office of Oil and Gas  
MAR 05 2020  
WV Department of  
Environmental Protection

API Number 47 - 085 - 09253  
Operator's Well No. Noland #2

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

Operator Name KEY OIL COMPANY OP Code \_\_\_\_\_

Watershed (HUC 10) Horner Run Quadrangle \_\_\_\_\_

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.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

MAG  
3-3-20

Will closed loop system be used? If so, describe: Well will be plumbed into a closed tank and disposed at an approved facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh Water

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? Bentonite Gel

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

-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.

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Office of Oil and Gas  
MAG 3-3-20  
WV Department of  
Environmental Protection

Company Official Signature Jan Chapman

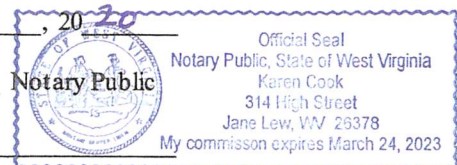
Company Official (Typed Name) Jan Chapman

Company Official Title President

Subscribed and sworn before me this 4<sup>th</sup> day of March

Karen Cook

My commission expires March 24, 2023



Operator's Well No. Noland #2

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

**Seed Mixtures**

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		KY - 31	40
		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: Michael Goff

Comments: Reclaim any disturbed areas per WVDEP regs.

RECEIVED  
Office of Oil and Gas

MAR 06 2020

WV Department of  
Environmental Protection

Title: Oil & Gas Inspector Date: 3-3-20

Field Reviewed?  Yes  No

N/A

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

Operator Name: KEY OIL COMAPY  
Watershed (HUC 10): HORNER RUN Quad: PENNSBORO 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.

No fluids will be discharge. Well head will be contained and all fluids transported to an approved disposal facility.

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

NA

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

NA

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

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NA

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

N/A

NA

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.

NA

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

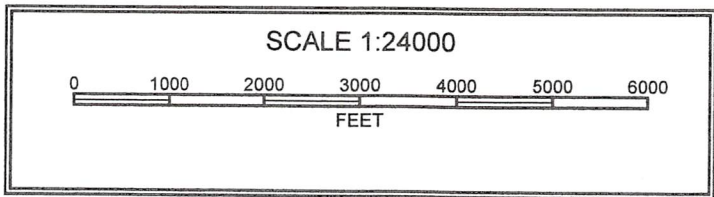
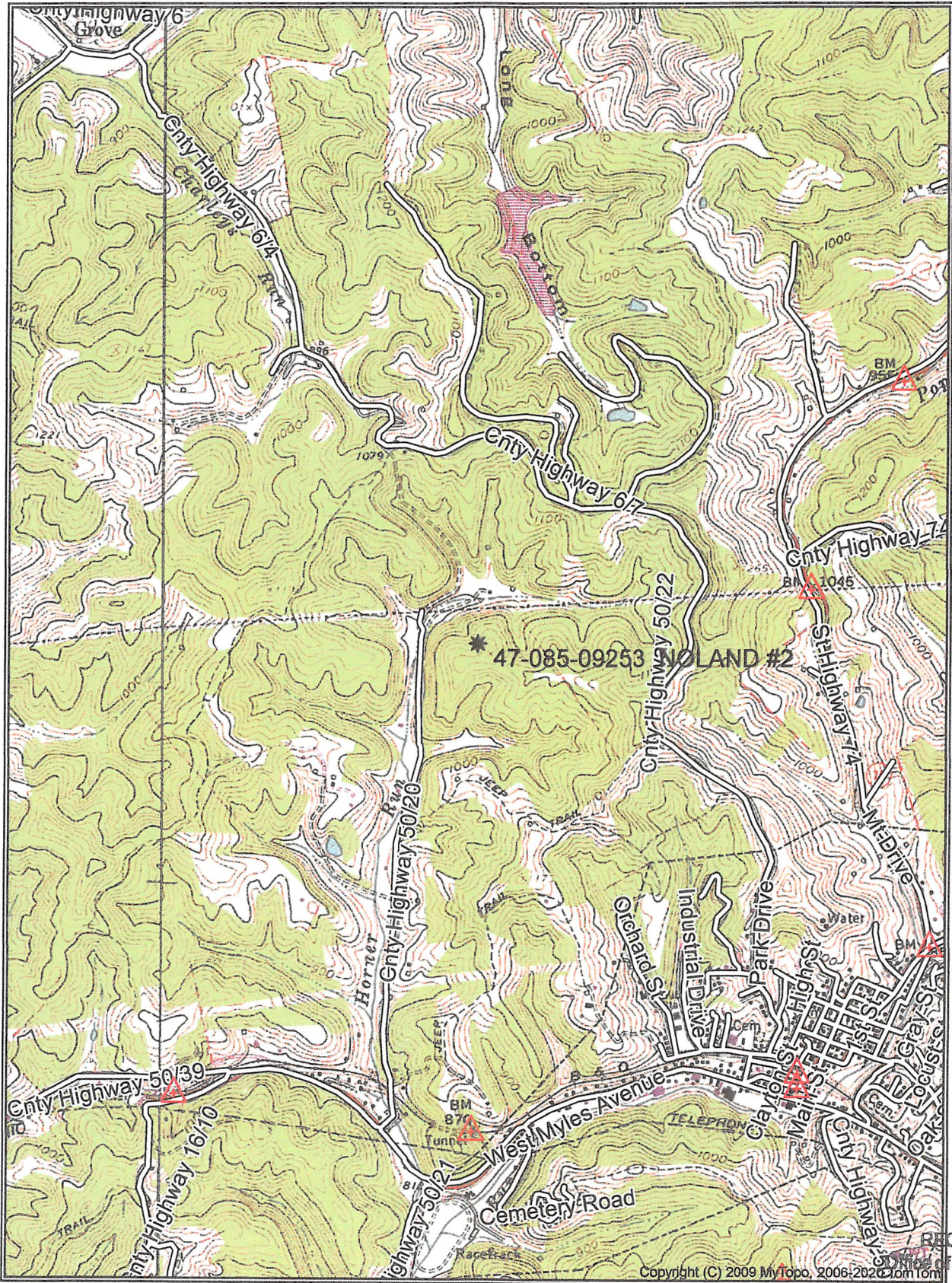
All containmant to be inspected at the beginning of each work shift.

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Signature: Jim Chapman

Date: 3-4-2020





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WW-7  
8-30-06



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

API: 47-085-09253 WELL NO.: NOLAND #2

FARM NAME: DARRELL A NOLAND and JOY LOU NOLAND

RESPONSIBLE PARTY NAME: KEY OIL COMPANY

COUNTY: RITCHIE DISTRICT: CLAY

QUADRANGLE: \_\_\_\_\_

SURFACE OWNER: DARRELL A NOLAND and JOY LOU NOLAND

ROYALTY OWNER: DARRELL A NOLAND et ux

UTM GPS NORTHING: 295162 435 0169 N

UTM GPS EASTING: 1549422 501638 E GPS ELEVATION: 1084.27

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 X

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.

Kemp Hester  
Signature

Vice President Operations

Title

3/3/2020  
Date

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