



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)

Tuesday, April 21, 2020  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

LEATHERWOOD, LLC  
1000 CONSOL ENERGY DRIVE

CANONSBURG, PA 15317

Re: Permit approval for 3  
47-049-00662-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the text of his name and title.

Operator's Well Number: 3  
Farm Name: KOEN, O. N.  
U.S. WELL NUMBER: 47-049-00662-00-00  
Vertical Plugging  
Date Issued: 4/21/2020

Promoting a healthy environment.

## 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.

I

47-049-00662P

WW-4B  
Rev. 2/01

2/11/2020  
1) Date January 11 2020  
2) Operator's  
Well No. #3  
3) API Well No. 47-049-00662 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 \_\_\_ / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow
- 5) Location: Elevation 1000' Watershed Buffalo Creek  
District Mannington County Marion Quadrangle Mannington
- 6) Well Operator Leatherwood, LLC 7) Designated Agent Sandra Halstead  
Address 1000 Consol Energy Drive Address 1627 Quarrier Street  
Canonsburg, PA 15317 Charleston WV, 25311-2124
- 8) Oil and Gas Inspector to be notified Name Sam Ward 9) Plugging Contractor  
Address PO Box 2327 Name Coastal Drilling East Road  
Buckhannon, WV 26201 Address 70 Gums Springs Road  
Morgantown, WV 26508

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

See attached plugging and abandonment procedure THIS WELL WAS SHOT FROM 2096' TO 2104'. THEREFORE, FILL WELL BORE WITH 6% GEL TO SOME DISTANCE ABOVE THE SHOT HOLE (≈ 1900'), SET A CIBP ABOVE THE SHOT IN COMPETENT FORMATION.

\* HOLE WAS PLUGGED BACK TO BIG INJUN (≈ 2160) ∴ 5 3/4" MAY NOT BE PRESENT. SEE ATTACHED PLUGGING PROGNOSIS.

JWM

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Office of Oil and Gas

MAR 09 2020

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 [Signature] Date 2/25/2020

PLUGGING PROGNOS

O N Koen #3  
API# 47-049-00662  
District, Mannington  
Marion County

**CURRENT STATUS:**  
TD @ 2925"  
Elevation 1000 feet

10" Casing @ 356'  
8 1/4" casing @ 1174'  
6 5/8" casing @ 2019 2025'  
5 3/16" casing @ 2132' 2140' - MAY HAVE ALREADY BEEN PULLED.

JWM

Fresh Water @ None Reported  
Saltwater @ None Reported  
Oil Show @ 2097' - 2104'  
Gas shows @ 1996' & 2735-2750', 2866'-2884'  
Coal @ 585'-590', 685'-692'  
Perforations @ 1923', 2096', 2104', 1925'  
SHOT 12/4/1923 & 11/7/1925

1. Notify inspector, Sam Ward @ 304-389-7583, 24 hrs. prior to commencing operations.
2. MIRU rig. Begin plugging and abandonment operations.
3. **Conduct Tailgate Safety Meeting. Complete JSA's as required.**
4. Check pressures on all casings with a gauge. Blow down the well into a grounded tank with a secure line.
5. RIH w. tools to check TD. Notify DEP OGI of attainable bottom.
- \* 6. TIH w. tubing. Set solid 725' Class A cement plug from 2925' to 2200'. TOOH w. tubing. Allow cement to set.
- \* 7. Hook onto and attempt to recover 5 3/16" casing by exerting a pulling force of 150% of string weight or 5K over. Whichever is greater.
- \* 8. RIH w. wireline and run CBL on 5 3/16" casing and determine freepoint. Cut 5 3/16" casing and TOOH. (Perforate all oil, coal, SW, FW. Zones below 5 3/16" casing cut).
9. TIH ... **SET A CIBP ABOVE SHOT HOLE X 2040'**  
TOOH v
10. Hook onto and attempt to recover 6 5/8" casing by exerting a pulling force of 150% of string weight or 5K over. Whichever is greater.
11. RIH w. wireline. Run CBL on 6 5/8" casing and determine freepoint. Cut 6 5/8" casing and TOOH with casing. (Perforate all oil, coal, SW, FW, Zones below 6 5/8" casing cut).

MAX NOT BE APPLICABLE JWM

MAKE SURE CIBP HAS A MINIMUM OF 100' CEMENT RING ON TOP OF IT.

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2/25/2020

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## CIBP

12. TIH w. tubing and set solid 850' Class A cement plug from 2100' to 1250'. TOOH w. tubing. Allow cement to set.
13. Hook onto and attempt to recover 8 1/4" casing by exerting a pulling force of 150% of string weight or 5K over. Whichever is greater.
14. RIH w. wireline. Run CBL on 8 1/4" casing and determine freepoint. Cut 8 1/4" and TOOH with casing. (Perforate all oil, coal, SW, FW, Zones below 8 1/4" casing cut).
15. TIH w. tubing and set solid 800' Class A cement plug from 1250' to 450'. TOOH w. tubing. Allow cement to set.
16. Hook onto and attempt to recover 10" casing by exerting a pulling force of 150% of string weight or 5K over. Whichever is greater.
17. RIH w. wireline. Run CBL on 10" casing from 356' - Surface. Determine freepoint and cut 10" and TOOH with casing. **Notify OGI of recovery attempt to determine additional cut depths or perforation schedule.**
18. TIH w. tubing. Set 450' solid Class A cement plug from 450'-surface'. TOOH w. tubing. Allow cement to set.
19. Top off well to surface with solid cement as needed.
20. Class A Cement Plugs will be used as shown.
21. Erect monument with API#, date plugged, & company name.
22. Reclaim location and road to WV-DEP specifications.

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SDW  
2/26/2020

WELL RECORD

PRODUCTION FIRST 24 HOURS FROM 0310 Sand 18 Blbs. Approved.  
 O. N. KOEN #3 Sand Blbs. By W.M. [Signature] Supt  
 FARM No. OF LEASE ..... No. ACR  
 DISTRICT Marion COUNTY West Va. STA  
 WELL No. 3 DATE OF LOCATION June 1 1923  
 RIG COMMENCED June 1923 } Eastern Pet. Co. CONTRACT  
 RIG COMPLETED June 1923 }  
 DRILLING COMMENCED Aug 14 1923 }  
 DRILLING COMPLETED Nov 12 1923 } CONTRACT

CASING RECORD

Size	CHARGED TO WELL		PUT IN WELL		BOTTOM OF CASING		PULLED OUT OF WELL		LEFT IN WELL		TRANSFERRED Before Completion		LEFT AT WELL NOT IN USE	
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
10"	360		356		356				356					
8 1/4"	1180		1174		1174				1174					
6 7/8"	2025		2025		2019				2025					
5 3/16"	2140		2140		2132				2140					

Formation	Top	Bottom	Remarks
Conductor	18' 21"		
Native Coal	585"	590	
Pittsburgh Coal	685"	692	
Little Dunkard Sand	1040	1125	
Big Dunkard Sand	1170	1200	
First Salt Sand	1395	1475	
Second Salt Sand	1680	1700	
Water			
Maxon Sand	1830	1858	
Little Lime	1900	1914	
Pencil Cave	1914	1924	
Big Lime	1927	1987	
Big Injun Sand	1987	2160	263
Gas - Water	1996		
First Pay Oil	2097	2104	
Second Pay			
Water			
Squaw Sand			
Gantz Sand			
Fifty Foot Sand	2636	2671	
Thirty Foot Sand	2735	2750	4000 → No water thru 2" pipe - 120' m
Gordon Stray Sand	2830	2861	
Gordon Sand	2866	2884	
Gas	2872		
First Pay			
Second Pay			
Fourth Sand	2889	2909	
Fifth Sand			
Gas			
Oil			
Bayard Sand			
Total Depth	2925		

Hole plugged back to Big Injun  
 Shot Dec. 4-1923 - 15 quarts  
 Top - 2096, Bottom - 2104 (3 1/2" shell)  
 Shot Nov. 7-1925 - 20 qts.

2097  
 2097  
 2097

Size	Casing Pulled	Casing Left In
10"		356
8 1/4"		1174
6 7/8"		2025
5 3/16"		2140

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REMARKS  
 Completed drilling in  
 Ligne shells  
 Gas in Gordon Sand 60% water  
 thru 2" pipe reduced to 48 hrs  
 to 1% water thru 2" pipe

360' m  
 151' m

# WELL RECORD

PRODUCTION FIRST 24 HOURS FROM 24 10 Sand 18 18 Bbls. Approved.  
 O. N. KOEN #3 Sand Bbls. By W.M. K...  
O. N. Koehn FARM No. OF LEASE ..... No. AGR  
Mt. Vernon DISTRICT Marietta COUNTY Chick STA  
 WELL No. 3 DATE OF LOCATION June 1 1923  
 RIG COMMENCED June 1923  
 RIG COMPLETED June 1923 } Eastern Pet. Co. CONTRACT  
 DRILLING COMMENCED Aug 14 1923  
 DRILLING COMPLETED Nov 12 1923 } CONTRACT

### CASING RECORD

Size	CHARGED TO WELL		PUT IN WELL		BOTTOM OF CASING		PULLED OUT OF WELL		LEFT IN WELL		TRANSFERRED Before Completion		LEFT AT WELL NOT IN USE	
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.
10"	360		356		356				356					
8 1/2"	1180		1174		1174				1174					
6 7/8"	2025		2025		2019				2025					
5 3/16"	2140		2140		2132				2140					

Formation	Top	Bottom	Remarks
Conductor	18 3/4		
Native Coal	585"	590	
Pittsburgh Coal	685"	692	
Little Dunkard Sand	1040	1125	
Big Dunkard Sand	1170	1200	
First Salt Sand	1395	1475	
Second Salt Sand	1680	1700	
Water			
Mazon Sand	1830	1858	
Little Limestone	1900	1914	
Fennell Cave	1914	1924	
Big Limestone	1927	1987	
Big Linton Sand	1987	2160	2 1/2"
Gas Water	1996		
First Pay Oil	2097	2104	
Second Pay			
Water			
Squaw Sand			
Gamb Sand			
Fifty Foot Sand	2636	2671	
Thirty Foot Sand	2735	2750	400' → No water thru 2" pipe - 120'
Gordon Stray Sand	2830	2861	
Gordon Sand	2866	2884	
Gas	2872		
First Pay			
Second Pay			
Fourth Sand	2888	2909	
Fifth Sand			
Gas			
Oil			
Bayard Sand			
Total Depth	2925		

*Hole plugged back to Big Linton  
 & sand bed for about 15' thick*

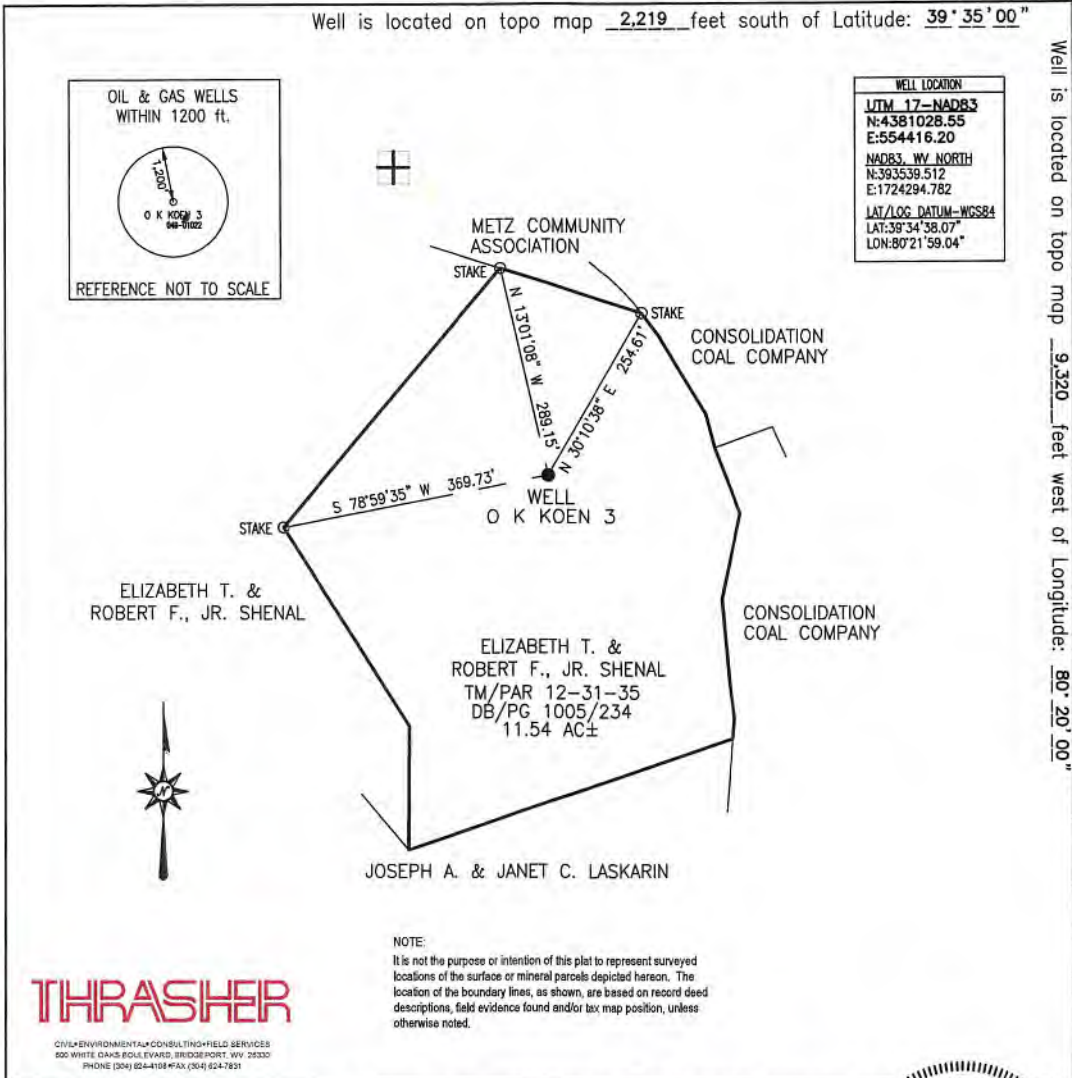
*Shot - Dec 11-1923 - 15 quarts  
 Jan - 2026; Bottom - 2104 - 13 1/2' shot*

*Shot Nov 7-1925 - 20 quarts*

Size	Casing Pulled	Casing Left In
10"		356
8 1/2"		1174
6 7/8"		2025
5 3/16"		2140

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 Environmental Protection  
 2/25/2020

REMARKS  
 Completed drilling in  
 lignite shells  
 Gas in Gordon Sand 60% water  
 th 2" pipe reduced in 45' thru  
 to 1 1/2" water th 2" pipe



FILE #: O K KOEN 3  
DRAWING #: O K KOEN 3  
SCALE: 1" = 200'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 ENVIRONMENTAL PROTECTION.

Signed: **PRELIMINARY**  
R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

**GEORGE D. SIX LICENSED No. 2000 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR**  
PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: AUGUST 20, 2019  
OPERATOR'S WELL #: O K KOEN 3  
API WELL #: 47 49 00662  
STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: BUFFALO CREEK ELEVATION: 1000'  
COUNTY/DISTRICT: MARION/MANNINGTON QUADRANGLE: MANNINGTON, WV 7.5'  
SURFACE OWNER: ELIZABETH T. & ROBERT F., JR. SHENAL ACREAGE: 11.54±  
OIL & GAS ROYALTY OWNER: UNKNOWN ACREAGE: \_\_\_\_\_  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_  
TARGET FORMATION: UNKNOWN ESTIMATED DEPTH: UNKNOWN  
WELL OPERATOR LEATHERWOOD DESIGNATED AGENT JOHN C. BAKER JR.  
Address 1000 CONSOL ENERGY DRIVE Address 74 CLEARVIEW AVE  
City CANONSBURG State PA Zip Code 15317 City WHEELING State WV Zip Code 26003

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MAR 09 2020  
WV Department of Environmental Protection



WW-4A  
Revised 6-07

1) Date: 2/11/2020  
2) Operator's Well Number  
#3  
3) API Well No.: 47 - 049 - 000662

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Robert F. Jr. Shenal and Elizabeth Shenal</u>	Name <u>N/A</u>
Address <u>51 Elm Way ELI</u>	Address _____
<u>Metz WV 26587</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal Company</u>
_____	Address <u>46226 National Road</u>
_____	<u>St. Clairsville, Ohio 43950</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304 389-7583</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.

Well Operator Leatherwood, LLC  
 By: Danny Caldwell  
 Its: Maintenance Coordinator  
 Address 1000 Consol Energy Drive  
Canonsburg, PA 15317  
 Telephone (724) 416-8283

Commonwealth of Pennsylvania - Notary Seal  
 Jason L. Hartley, Notary Public  
 Washington County  
 My commission expires January 3, 2023  
 Commission number 1229933  
 Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 12 day of February  
Jason L. Hartley Notary Public  
 My Commission Expires 1-3-23

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 Office of Oil and Gas  
 MAR 09 2020

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-4B

API No. 47-049-00662 P  
Farm Name \_\_\_\_\_  
Well No. O N Koen #3

**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 X / owner X / 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: Feb 7, 2020

  
By: Mason Smith  
Its Coal, oil and Gas relations manager

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Office of Oil and Gas  
MAR 09 2020  
WV Department of  
Environmental Protection

47-049-00662P

WW-9  
(5/16)

API Number 47 - 049 - 00662  
Operator's Well No. # 3

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

Operator Name Leatherwood LLC OP Code 494476721  
Watershed (HUC 10) Buffalo Creek Quadrangle Mannington, WV 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: \_\_\_\_\_

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 Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

Will closed loop system be used? If so, describe: No

SDW  
2/28/2020

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

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) N/A

-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 Danny Caldwell

Company Official (Typed Name) Danny Caldwell

Company Official Title Maintenance Coordinator

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Office of Oil and Gas

Subscribed and sworn before me this 12 day of February, 2020

MAR 03 2020

Jason L. Hartley

Notary Public

WV Department of Environmental Protection

My commission expires 1-3-23

Commonwealth of Pennsylvania - Notary Seal  
Jason L. Hartley, Notary Public  
Washington County  
My commission expires January 3, 2023  
Commission number 1229933  
Member, Pennsylvania Association of Notaries

Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed Less than 1 acre Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

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: \_\_\_\_\_

*[Signature]*

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

Title: OOG Inspector

Date: 2/25/2020

Field Reviewed? ( ) Yes

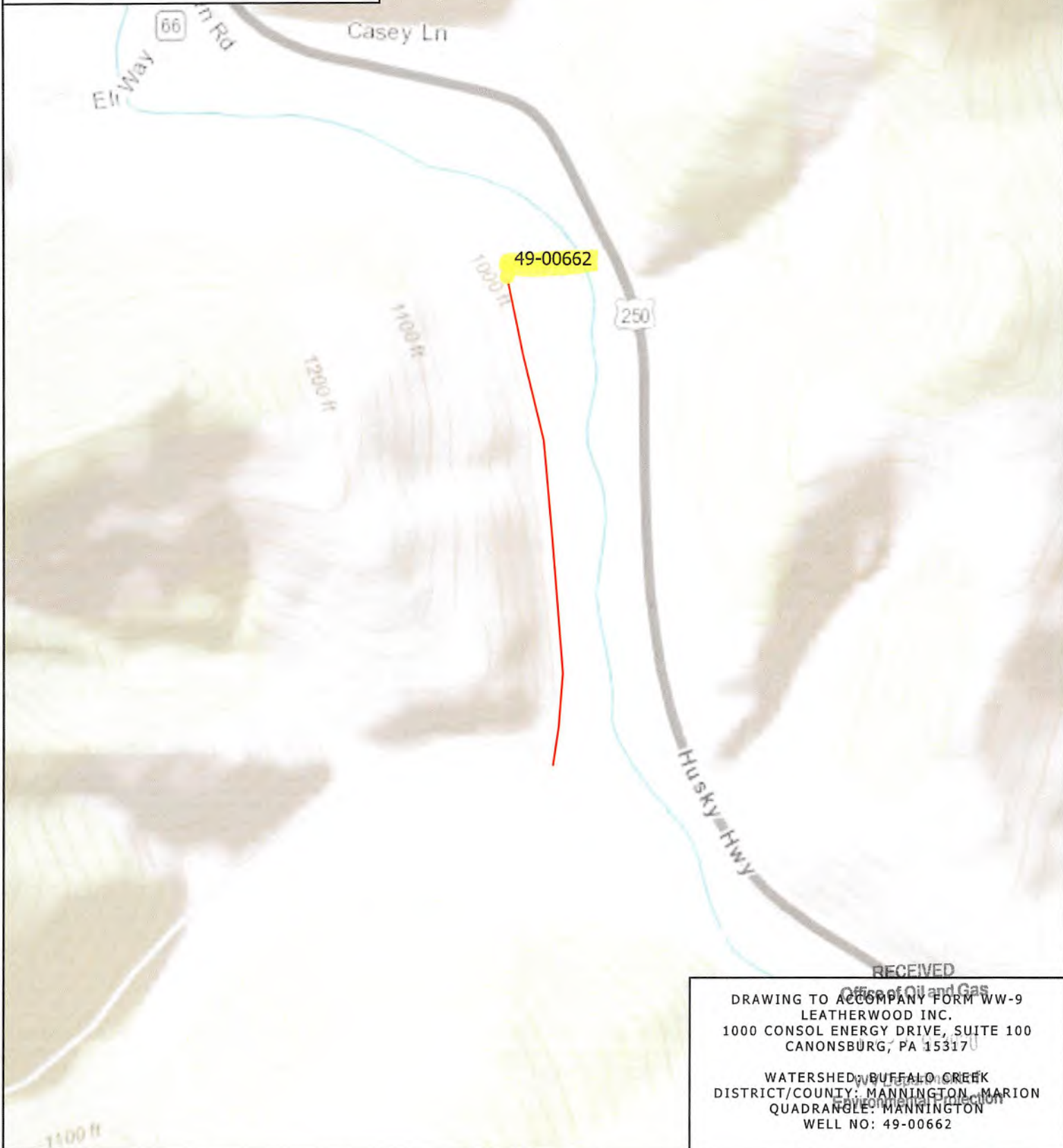
( X ) No

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2/25/2020

WV Department of  
Environmental Protection

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. THE ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.



RECEIVED

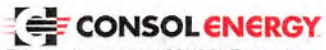
Office of Oil and Gas

DRAWING TO ACCOMPANY FORM WW-9  
LEATHERWOOD INC.  
1000 CONSOL ENERGY DRIVE, SUITE 100  
CANONSBURG, PA 15317

WATERSHED: BUFFALO CREEK  
DISTRICT/COUNTY: MANNINGTON, MARION  
QUADRANGLE: MANNINGTON  
WELL NO: 49-00662

Environmental Protection

- Wells To Plug
- Proposed Access Road

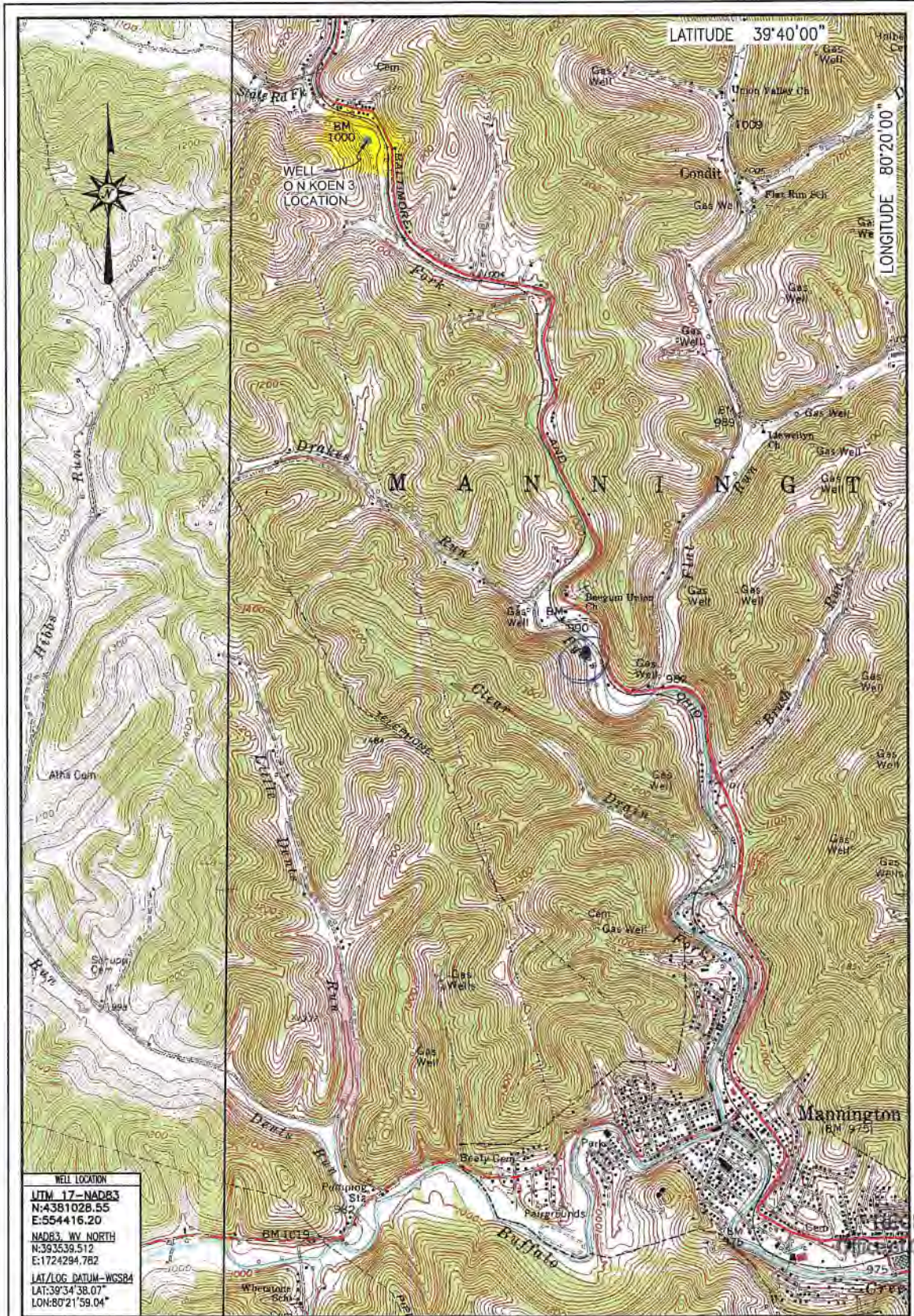


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Date: 2/10/2020	Prepared By: GIS
Revisions: 0	Approved By:

306A7



WELL LOCATION  
 UTM 17-NAD83  
 N:4381028.55  
 E:554416.20  
 NAD83 WV NORTH  
 N:393539.512  
 E:1724294.782  
 LAT/LOG DATUM-WGS84  
 LAT:39°34'38.07"  
 LONG:80°21'59.04"

**PRELIMINARY** LOCATION MAP  
 AUGUST 20, 2019

WV Department of  
 Environmental Protection

**THRASHER**

O N KOEN 3  
 MANNINGTON QUADRANGLE  
 WEST VIRGINIA

SCALE 1" = 2000'

0' 2000' 4000' 6000'



**BLUE MOUNTAIN ENGINEERING**

ENVIRONMENTAL/GEOTECHNICAL/INSTRUMENTAL SERVICES  
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26305  
 PHONE: (204) 624-4100 • FAX: (204) 624-7300

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 Oil and Gas

WW-7  
8-30-06



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

API: 47-049-00662 WELL NO.: 3

FARM NAME: O. N. Koen

RESPONSIBLE PARTY NAME: Danny Caldwell

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Mannington

SURFACE OWNER: Robert Jr. and Elizabeth Shenal

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4381028.55

UTM GPS EASTING: 554416.20 GPS ELEVATION: 1000'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS \_\_\_\_\_: Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS X: Post Processed Differential X

Real-Time Differential \_\_\_\_\_

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11/12/2020

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Environmental Protection

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.

Danny R Caldwell  
Signature

Maintenance Coordinator  
Title

2/12/2020  
Date