



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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Tuesday, December 13, 2016
WELL WORK PERMIT
Vertical / Plugging

HENDERSON, JUSTIN L
190 SAPPHIRE LANE

MEADOWBROOK, WV 26404

Re: Permit approval for
47-017-00026-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number:
Farm Name: MAXWELL, LEEMAN
U.S. WELL NUMBER: 47-017-00026-00-00
Vertical / Plugging
Date Issued: 12/13/2016

Promoting a healthy environment.

12/16/2016

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.

1) Date November 25, 2016
2) Operator's Well No. 1473
3) API Well No. 47-017-00026

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

5) Location: Elevation 1010 Watershed Cove Creek
District South West County Doddridge Quadrangle Oxford

6) Well Operator Justin L. Henderson 7) Designated Agent _____
Address 190 Sapphire Lane Address _____
Meadowbrook, WV 26404

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Daniel Flack Name Hydrocarbon Well Services
Address 58 River Ave Address PO Box 995
Buckhannon WV 26201 Buckhannon, WV 26201

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

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WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 11/30/16

Plugging Prognosis
 Well# 1473
 Farm Name: Leeman Maxwell
 Doddridge Co., WV
 District, Southwest
 Api# 47-017-00026

By: Kevin Metz
 Date: 11/15/16

Current Status:

10" csg. @ 200'
 8 1/4" csg. @ 985'
 6 5/8" csg. @ 1636' (anchor packer @ 1620)
 2" tbg. @ 2547' (anchor packer @ 2338')
 Elevation @ 1010'
 TD: 2547'

Fresh Water @ 1130' Coal @ None Reported
 Gas Shows @ 1631-32', 1747-55', 2487-93' *Gas show @ 1390'*

1. Notify State Inspector, Daniel Flack @ 304 545-0109, 48 hrs prior to commencing operations.
2. Attempt to pull 2" tubing & packer, if unable to pull packer shoot 2" tubing off above packer & TOO H w/tbg.
3. TIH with work string, spot gel and set 150' cement plug from top of 2" tbg. cut 2525' to 2375', TOO H w/tbg and gel back to 1805'.
4. TOO H w/tbg, freepoint 6 5/8" casing, cut casing @ freepoint, TOO H w/csg. Perforate all freshwater, oil and gas shows below cut.
5. TIH w/tbg. to 1805' and set ^{105'} 224' cement plug from 1805' to ^{1340'} 1581', TOO H w/tbg, gel hole from 1340' to 1060', TOO H.
6. Free point 8 1/4" csg, cut @ freepoint, TOO H w/csg, Perforate all water, oil, gas, and coal shows below cut.
7. TIH w/tbg to 1060' and set 150' cement plug 1060' to 910', TOO H and gel back to 200', set 200' surface plug.
8. Erect monument with API#
9. Reclaim location and road to WV-DEP specifications.

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FOUND WELL
1700026P

WEST VIRGINIA DEPARTMENT OF MINES
Oil and Gas Section

PRELIMINARY DATA SHEET NO. 1

File No. Dod-26 Lease #6764 Well No. 1473

CARNEGIE NATURAL GAS COMPANY Company, of 962 Frick Bldg. Annex
Pittsburgh, Penna. on the Leeman Maxwell Farm

containing 2164 acres. Location South West District, in Doddridge County, West Virginia.

The surface of the above tract is owned in fee by L. B. Maxwell
of Salen, West Va. address, and the mineral rights are owned by
L. B. Maxwell of Salen, W. Va.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under
permit No. _____ issued by the West Virginia Department of Mines, Oil and Gas Section,
August 14, 1930 19____

Elevation of surface at top of well, 1010 feet Barometri-

The number of feet of the different sized casings used in the well.

16 feet 13" size. Wood conducti-

200 feet 10" size, esg. 2547 feet 2" sized ~~esp~~ Tubing

985 feet 8 1/2" size, esg. _____ feet _____ sized esg.

1636 feet 6-5/8" size, esg. _____ feet _____ sized esg.

Anchor packer of 8 1/2" x 6-5/8" size, set at 1620

Anchor packer of 6-5/8" x 2" size, set at 2338

2" in casing perforated at 1624 feet to 1634 feet.

_____ in casing perforated at _____ feet to _____ feet.

Coal was encountered at None feet; thickness -- inches, and at None
feet; thickness _____ inches; and at _____ feet; thickness _____ inches.

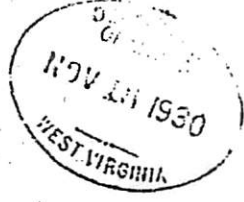
Liners were used as follows: (Give details) _____

November 17, 1930 Date.

Approved CARNEGIE NATURAL GAS COMPANY Owner.

By _____ (Title) Land Agent

2164
26



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17 00026 P

COMPLETION DATA SHEET NO. 2

FORMATION RECORD

DOD-26

NAME	COLOR	CHARACTER	OIL, GAS OR WATER	TOP	BOTTOM	THICKNESS	TOTAL DEPTH	REMARKS
		Conductor			16			
		Waynesburg Coal		None				
		Mapleton Coal						
		Pittsburgh Coal		None				
		Little Dunkard		855	875			
		Big Dunkard		905	966			
		Gas Sand		1095	1175			Water at 1120' 6 bailsers per hr.
		1st Salt Sand		1210	1245			
		2nd Salt Sand		1245	1-30			Show gas at 1390'
		3rd Salt Sand						
		Waxton Sand		1530	1565			
		Little Lime		1575	1603			
		Pencil Cave		1605	1609			
		Blue Monday		1609	1630			
		Big Lime		1630	1690	Gas 1631-1632'		4/10 W in 2"
		Big Injun		1690	1772	Gas 1747-1755		6/10 W in 2"
		Gantz Sand		1910	2060			
		Azusa Grit		2117	2128			
		50 Foot Sand		None				
		30 Ft. Sand		None				
		Gordon Stray		2330	2342			
		Gordon Sand		2353	2359			
		4th Sand		2435	2441			
		5th Sand		2487	2493	Gas at 2487-93'		4/10 W. in 2"
					2547			

shot
Well was not shot at 2487-2492 feet; well was shot at _____ feet.

Salt
Fresh water at _____ feet; salt
fresh water at _____ feet.

producing
Well was _____ Gas hole.
~~xxx~~

November 17, 1980. Approved _____ CARNEGIE NATURAL GAS COMPANY
DATE Owner

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names for which strata that may be common to the district.

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DATE: DEC 4 1979 BUYER-SELLER CODE
 OPERATOR: George Jackson OC 3588
 PURCHASER: Carnegie Natural Gas OC 3042

Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER

70226 - 108 - 017 - 0026

Use Above File Number on all Communications
 Relating to Determination of this Well

Qualifies as Section 108, stopped well
Frank Lee

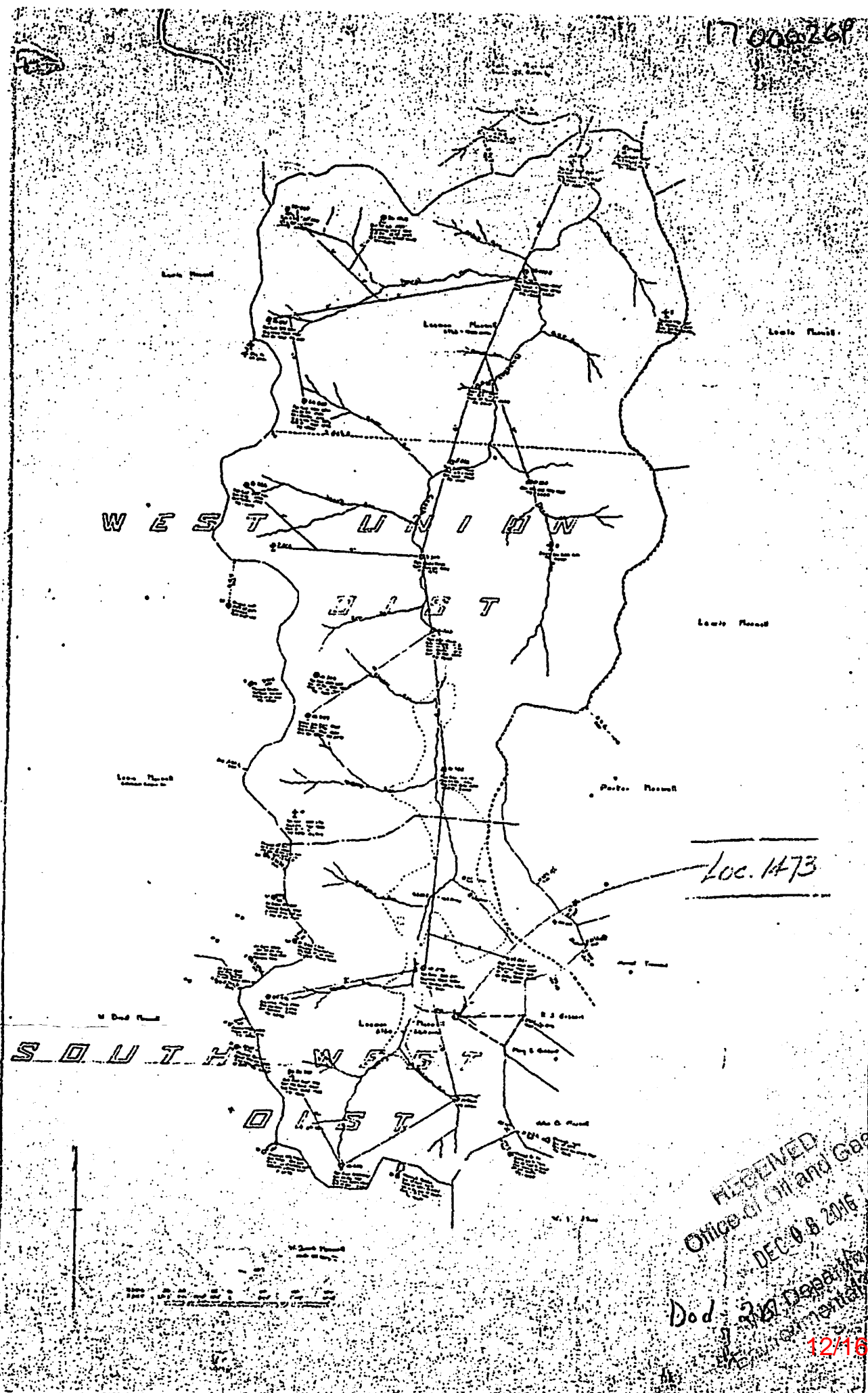
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1 FERC-121 Items not completed - Line No. _____
- 2 IV-1 - Agent George Jackson
- 3 IV-2 - Well Permit _____
- 4 IV-6 - Well Plat
- 5 IV-35- Well Record Drilling Deepening _____
- 6 IV-36- Gas-Oil Test: Gas Only B4 Was Oil Produced? _____ Ratio _____
- 7 IV-39- Annual Production 2 years _____
- 8 IV-40- 90 day Production 92 NO 90 day check Days off Line: _____
- 9 IV-48- Application for Certification. Complete?
- 10 - 17 IV Form 851 - 52 - 53 - 54 - 55 - 56 - 57 - 58. Complete Affidavit Signed
- 18 - 28 Other: Survey _____ Logs _____ Geological Chart _____ Structure Map _____
 1:4000 Map _____ Well Tabulations _____ Gas Analyses _____
- (5) Date Commenced: 7-4-30 Date Completed: 7-10-30 Deepened _____
- (5) Production Depth: 1631-32', 1747-55', 2487-93
- (5) Production Formation: B16 UME, B16 HUN, 5th SAND
- (5) Final OPER FLOW: N/A
 Initial Production: _____
 After _____
 Static R.P. Initial: 250*
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: $\frac{5542}{365} = 15.2 \text{ Mcf}$
- (8) Avg. Daily Gas from 90-day endit. 7/1-120 days $\frac{1246}{92} = 13.5 \text{ Mcf}$
- (8) Line Pressure: N/A PSIG from Daily Report _____
- (5) Oil Production: _____ From Comp. _____ Report _____
- (10-17) Does lease inventory indicate er' need recovery being done: NO
- (10-17) Is af 4zvit signed? Notarized?
- Does official well record with the Department confirm the submitted information? NO
- Additional Information: pp. 1825-1765 No 90-day Report Does computer program confirm? _____
- Was Determination Objected to? _____ By Whom? _____

OL EJA DM

17 006269

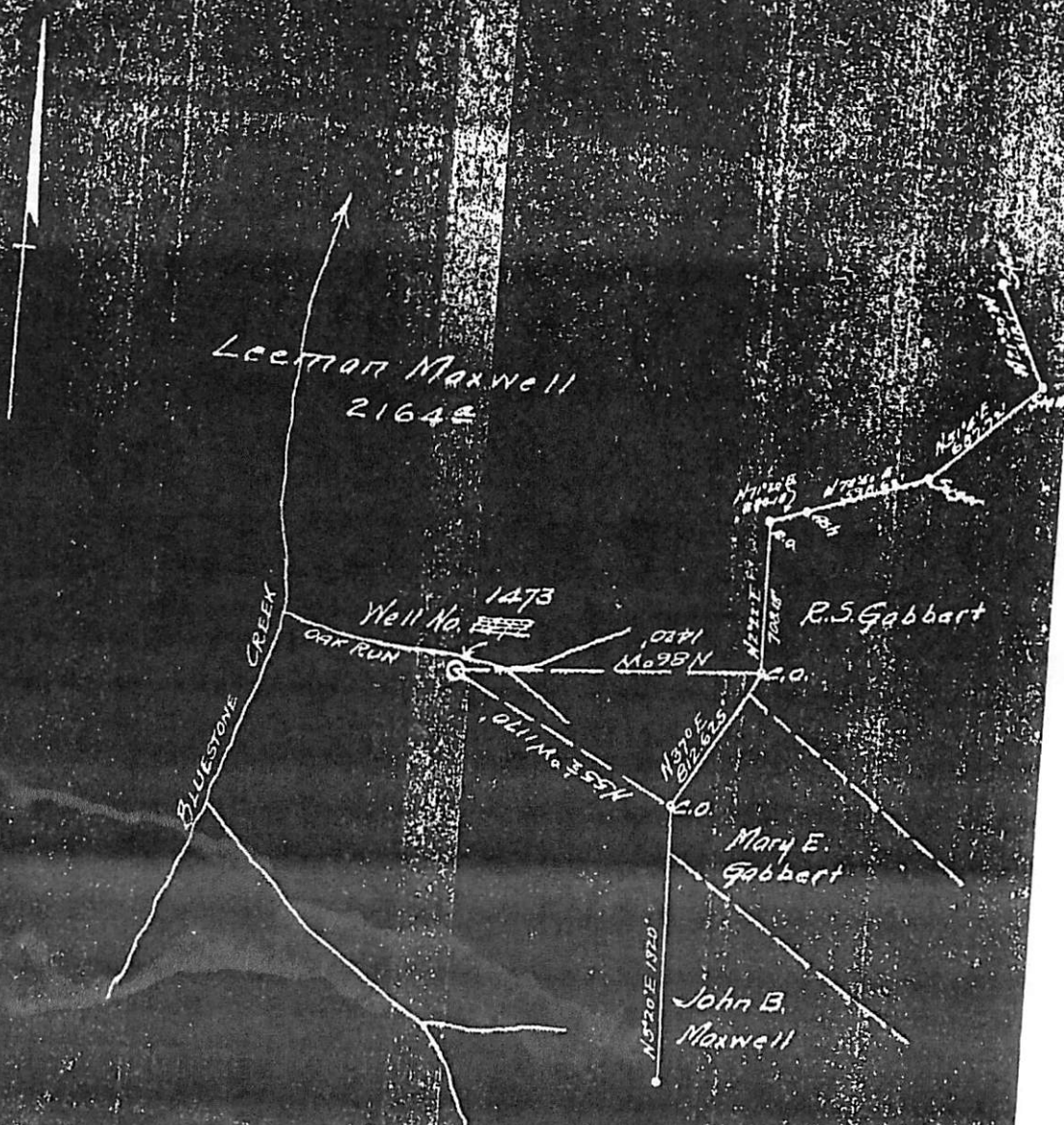


Loc. 1473

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 U.S. Department of
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12/16/2016

Leeman Maxwell
 Located in South West
 West Virginia Holbrook KNE
 7-1-30 Date 1010
 2164
 Daddridge
 1.660'
 Lease No. 6764



DOD-26 B.H.A.

I, the undersigned, hereby certify that this map is correct and true to the best of my knowledge and belief, required by the oil and gas laws of the State of West Virginia.

State of Pennsylvania } S.S.
 County of Allegheny }

[Signature] Engineer

Acknowledged before me a Notary Public on this 1st day of July 1930

12/16/2016

Department of Protection

1700026P

WW-4A
Revised 6-07

1) Date: November 25, 2016
2) Operator's Well Number 1473

3) API Well No.: 47 - 017 - 00026

**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:

(a) Name Justin L. Henderson
Address T90 Sapphire Lane
Meadowbrook, WV 26404

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name Justin L. Henderson
Address T90 Sapphire Lane
Meadowbrook, WV 26404

(c) Coal Lessee with Declaration
Name _____
Address _____

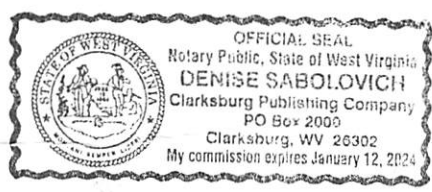
6) Inspector Daniel Flack
Address 58 River Ave
Buckhannon WV 26209
Telephone 304-545-0109

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 Justin L. Henderson
By: [Signature]
Its: _____
Address T90 Sapphire Lane
Meadowbrook, WV 26404
Telephone 3044729600

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WV Department of
Environmental Protection

Subscribed and sworn before me this 30th day of November 2016
Denise Sabolovich
My Commission Expires January 12, 2024 Notary Public

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.

12/16/2016

SURFACE OWNER WAIVER

Operator's Well Number 1473

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 57th 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

FOR EXECUTION BY A CORPORATION,

 _____ Date 11/30/2016 Name _____
 Signature By _____
 Its _____

 _____ Date _____

Signature _____ Date **12/16/2016**

API No. 4701700026
Farm Name _____
Well No. 1473

**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 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: 11/30/2016


By: _____
Its _____

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12/16/2016

WW-9
(5/16)

API Number 47 - 017 - 00026
Operator's Well No. 1473

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

Operator Name Justin L. Henderson OP Code _____
Watershed (HUC 10) Love Creek Quadrangle Oxford

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used? Yes _____ No X

If so, please describe anticipated pit waste: Plugging

A STEEL TANK WILL BE USED TO CONTAIN WELL EFFLUENT.

Will a synthetic liner be used in the pit? Yes _____ No X 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 _____)
- X Off Site Disposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____)

Will closed loop system be used? If so, describe: N/A

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) _____

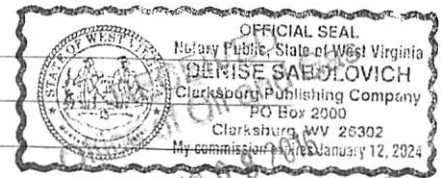
-Landfill or offsite name/permit number? _____

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 [Signature]
Company Official (Typed Name) Justin L. Henderson
Company Official Title _____



Subscribed and sworn before me this 30th day of November, 2016
Denise Sabolovich Notary Public

My commission expires January 12, 2024

DEC 16 2016
WV Department of Environmental Protection

Operator's Well No. 1473

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type N/A

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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: _____

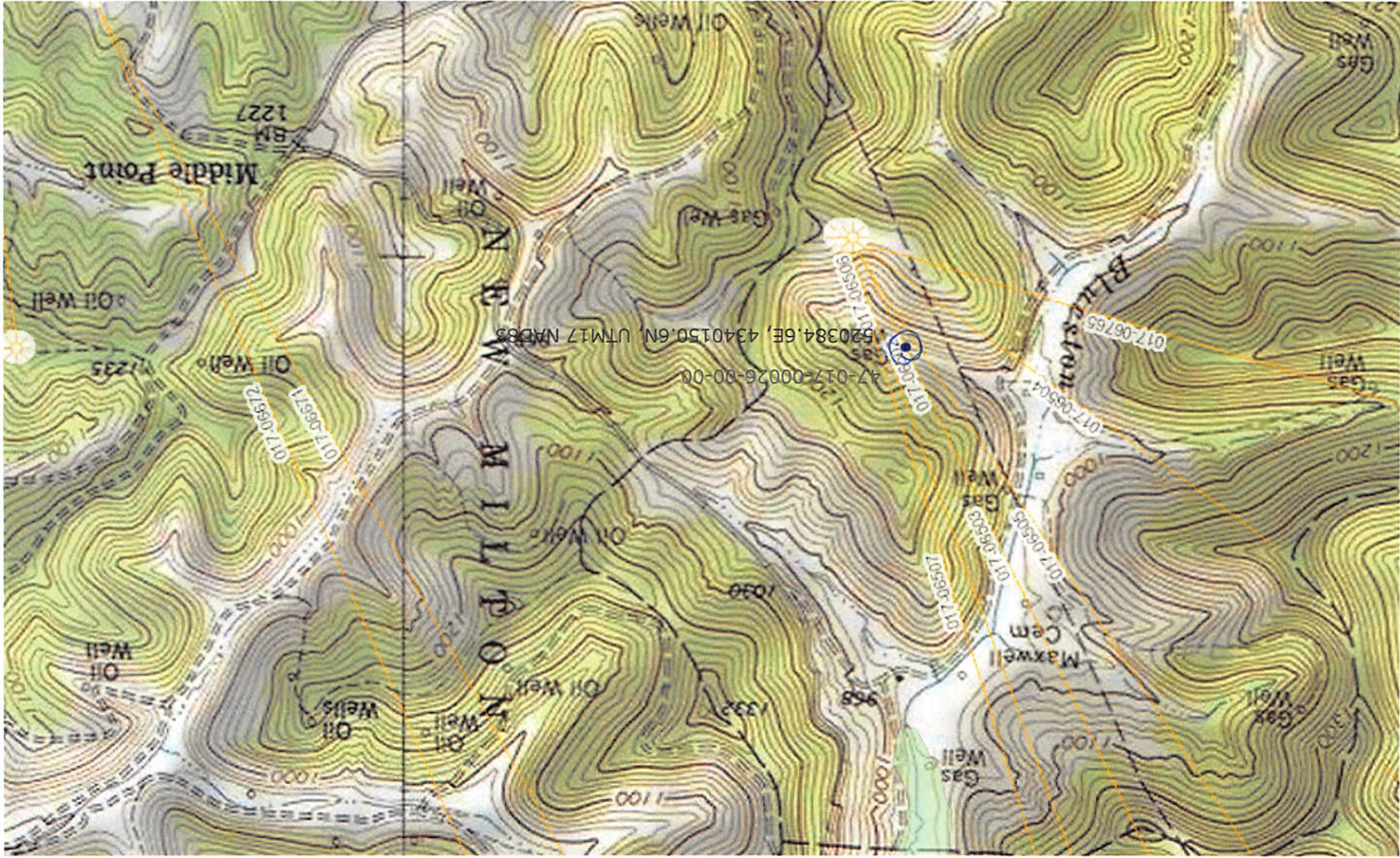
Comments: This well is abandoned and needs plugged according to DEP Standards.

Title: _____

Date: _____

Field Reviewed? () Yes () No

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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: 4701700026 WELL NO.: 1473

FARM NAME: Leeman Maxwell

RESPONSIBLE PARTY NAME: Justin L. Henderson

COUNTY: Doddridge DISTRICT: South West

QUADRANGLE: Oxford

SURFACE OWNER: Justin L. Henderson

ROYALTY OWNER: Justin L. Henderson

UTM GPS NORTHING: 4340150.6

UTM GPS EASTING: 5203846 GPS ELEVATION: 1010

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

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential
- 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.

Justin L. Henderson
Signature

Title

11/30/2016
Date