



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Friday, June 7, 2024

WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133


Re: Permit approval for BEAVER 111
47-081-01063-00-00

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: BEAVER 111
Farm Name: BEAVER COAL COMPANY, 
U.S. WELL NUMBER: 47-081-01063-00-00
Vertical Plugging
Date Issued: 6/7/2024

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. 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.

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 2492.44' Watershed Winding Gulf
District Slab Fork County Raleigh Quadrangle Crab Orchard 7F
- 6) Well Operator Diversified Production, LLC 7) Designated Agent Chuck Shafer
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor:
Name Murdock Howard Name Next LV. Energy (Diversified Owned)
Address PO Box 140 Address 104 Heliport Loop Rd
Oak Hill, WV 25901 Bridgeport, WV 25330

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

See Attached

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

Work order approved by inspector Murdock Howard Date 5/13/24

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WV
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4708101063P

Plugging Prognosis

API #: 4708101063

West Virginia, Raleigh County

Lat/Long: 37.69738751, -81.24052198

Nearest ER: Raleigh General Emergency Room - 1710 Harper Rd, Beckley, WV 25801

Casing Schedule

12-3/4" @ 20'

7" @ 883' (Cemented to surface w/ 223 ft³)

4-1/2" @ 3,719' (Cemented to 1230' w/ 256 ft³)

2-3/8" @ 1583' (No packer listed)

TD: 3,719'

MH
5/14/24

Completion

Stage 1: Weir Perforations: 3,544'-3,605'

Stage 2: Maxton Perforations: 2,469'-2,555'

Stage 3: Maxton Perforations: 2,188'-2,200'

Stage 4: Ravencloff Perforations: 1,515'-1,575'

Notes from Previous Rig Reports

Unlimited Energy Rig

TOOH w/ 2240' 2-3/8" tbg & packer, Tagged @ 2180' w/ sandline, TIH w/ 1-1/2" tbg & sat down @ 2243', TOOH w/ 1-1/2" tbg, Sat down @ 2140' lead impression block, TIH w/ 1-1/2" tbg & sat down @ 2243', Pushed something f/ 2243' t/ 2266' then stacked out, TOOH w/ 1-1/2" tbg dragging something f/ 2266' t/ 2170', RDMO

In speaking w/ WVDEP Inspector Murdock Howard on 3/20/24, he stated that there was a piece of line that came out of the well so the thinking was that there may be more line and a string of tools in the hole. No way to confirm or deny yet.

Fresh Water: 127'

Salt Water: None Listed

Gas Shows: None Listed

Oil Shows: None Listed

Coal: 328'-331' Void, 345'-348', 642'-645'

Elevation: 2,512'

1. Notify Inspector Murdock Howard @ 681-990-2568, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. RIH w/ spear on tbg/sandline and try to grab obstruction.
4. Remove obstruction from hole.
5. Check TD w/ wireline.

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6. Run in to 3,605'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 161' CIA cement plug from 3,605' to 3,444' (Stage 1: Weir completion). Tag TOC. Top off as needed.
7. TOOH w/ tbg to 3,444'. Pump 6% bentonite gel from 3,444' to 2,555'.
8. TOOH w/ tbg to 2,555'. Pump 186' CIA cement plug from 2,555' to 2,369' (Stage 2: Maxton completion and elevation).
9. TOOH w/ tbg to 2,369'. Pump 6% bentonite gel from 2,369' to 2,200'.
10. TOOH w/ tbg to 2,200'. Pump 112' CIA cement plug from 2,200'-2,088' (Stage 3: Maxton completion).
11. TOOH w/ tbg to 2,088'. Pump 6% bentonite gel from 2,088' to 1,575'.
12. TOOH w/ tbg to 1,575'. Pump 150' CIA cement plug from 1,575'- 1,415' (Stage 4: Ravenduff completion).
13. TOOH w/ tbg to 1,415'. Pump 6% bentonite gel from 1,415' to 933'.
14. Free point 4.5" csg. Cut and TOOH. Set 100' CIA cement plug across csg cut. 50' in/out of cut. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
15. TOOH w/ tbg to 933'. Pump 100' CIA cement plug from 933' to 833'. (7" csg shoe plug).
16. TOOH w/ tbg to 833'. Pump 6% bentonite gel from 833' to 695'.
17. TOOH w/ tbg to 695'. Pump 103' CIA cement plug from 695' to 592' (coal show).
18. TOOH w/ tbg to 592'. Pump 6% bentonite gel from 592' to 398'.
19. TOOH w/ tbg to 398'. Pump 120' CIA cement plug from 398' to 278' (Coal show, void within this plug).
20. TOOH w/ tbg to 278'. Pump 6% bentonite gel from 278' to 100'.
21. TOOH w/ tbg to 177'. Pump 177' CIA cement plug from 177' to Surface (Fresh water and surface plug)
22. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

MH 5/13/24

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

Well Operator's Report of Well Work

Farm name: BEAVER COAL COMPANY, LTD. Operator Well No.: BEAVER #111

LOCATION: Elevation: 2,512.00 Quadrangle: CRAB ORCHARD

District: SLAB FORK County: RALEIGH
Latitude: 4060 Feet South of 37 Deg. 42Min. 30 Sec.
Longitude 9380 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: ENERGY SEARCH, INC.
280 FT.SANDERS, W.BLVD., STE.200
KNOXVILLE, TN 37922-0000

Agent: CARRY S. RANSON

Inspector: RODNEY DILLON
Permit Issued: 02/11/97
Well work Commenced: 04/29/97
Well work Completed: 05/04/97
Verbal Plugging
Permission granted on: _____
Rotary XX Cable _____ Rig
Total Depth (feet) 3902'
Fresh water depths (ft) 12'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4'	20'		
7'	883'	883'	223 ft ³
4 1/2'	3719'	3719'	256 ft ³
2 3/8'	1583'	1583'	

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 328', 345', 645'

OPEN FLOW DATA

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

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.

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MAR 31 1998

WV Division of
Environmental Protection

For: ENERGY SEARCH, INC.

By: Frank R Rotunda
Date: 3-23-98

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06/07/2024

RA1 1063

4708101063f

WVDEP Form WR-35 (Reverse)

Operator: Energy Search, Inc.

Well No.: Beaver Coal #111

API #: 47-81-01063

Stage 1: Weir

Perforations: 3544' – 3547'; 3579' – 3583'; 3602' – 3605'

Foam frac with 45000 LB 20/40 sand. ATP 1600 psi, Break down pressure 2300 psi,

ISIP 1268 psi. ATR 25 BPM foam.

Stage 2: Maxton

Perforations: 2469' – 2555'

Foam frac with 93000 LB 20/40 sand, 230 bbl gelled water, 369000 scf N2. ATP 1650 psi,

ISIP 1581 psi. ATR 18 BPM foam.

Stage 3: Maxton

Perforations: 2188' – 2190'; 2197' – 2200'

Foam frac with 41900 LB 20/40 sand, 210 bbl gelled water, 283000 scf N2. ATP 2250 psi,

Break down 1837 psi, ISIP 840 psi.

Stage 4: Ravencliff

Perforations: 1515' – 1517'; 1540' – 1542'; 1570' – 1575'

Foam frac with 61600 LB 20/40 sand, 415000 scf N2. ATP 2130 psi, Break down 1460 psi,

ISIP 1975 psi. ATR 20 BPM foam.

Geologic Record

Top	Bottom	Description	Top	Bottom	Description
0	20	Soil, overburden	790	1298	Sand & shale
20	80	Shale	1298	1358	Princeton
80	97	Sand & shale	1358	1511	Shale
97	112	Shale	1511	1579	Ravencliff
112	192	Sand & shale	1579	1621	Shale
192	315	Shale	1621	1660	Avis Lime
315	328	Sand & shale	1660	2050	Shale
328	331	Void (coal)	2050	2170	Sand & shale
331	345	Sand & shale	2170	2221	Maxton
345	348	Coal	2221	2466	Sand & shale
348	364	Shale	2466	2605	Maxton
364	476	Sand & shale	2605	2679	Sand & shale
476	492	Shale	2679	2722	Little Lime
492	513	Sand & shale	2722	2770	Shale
513	547	Shale	2770	3304	Big Lime
547	592	Sand	3304	3540	Shale
592	642	Shale	3540	3645	Weir
642	645	Coal	3645	3902	Shale
645	742	Shale		3902	TD
742	772	Sand & shale			
772	785	Shale			
785	790	Sand			

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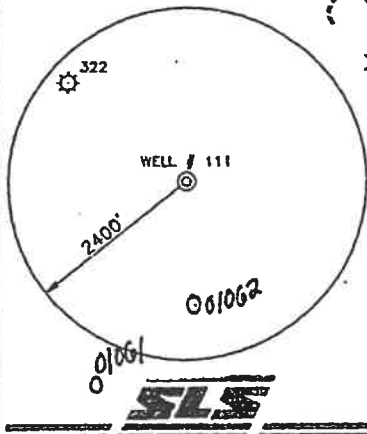
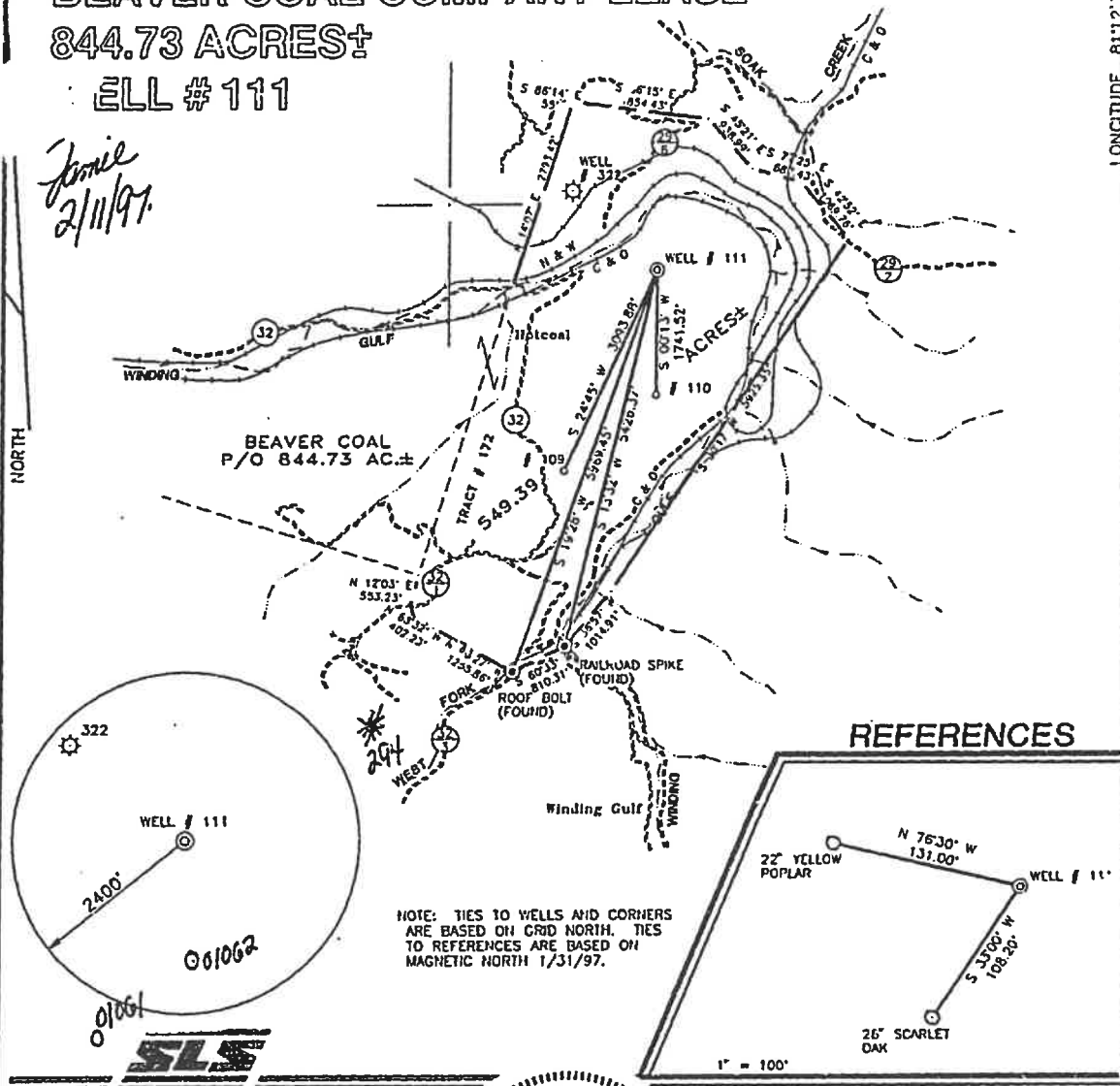
MAY 16 2024

WV Department of
Environmental Protection

06/07/2024

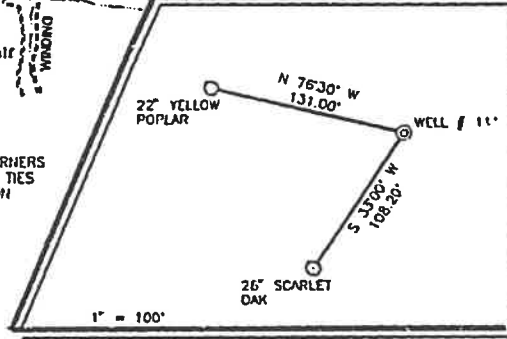
BEAVER COAL COMPANY LEASE 844.73 ACRES± ELL # 111

*Janie
2/11/97*

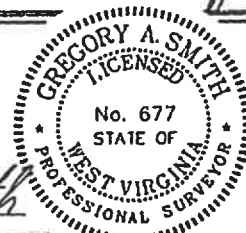


NOTE: TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 1/31/97.

REFERENCES



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.



P.S. *Gregory A. Smith*
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 3, 19 97
 OPERATORS WELL NO. BEAVER # 111
 API WELL NO. 47-081-01063
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3639P111 (62-13)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 2426'
 SCALE 1" = 2000'

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506

WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 2512' WATERSHED WINDING GULF
 DISTRICT SLAB FORK COUNTY RALEIGH QUADRANGLE CRAB ORCHARD 7.5

SURFACE OWNER BEAVER COAL COMPANY Ltd. ACREAGE 549.39 OF 844.73
 ROYALTY OWNER BEAVER COAL COMPANY Ltd. LEASE ACREAGE 844.73

PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
 FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BIG LIME & WEIR
 ESTIMATED DEPTH 3800'

WELL OPERATOR ENERGY SEARCH, Inc. DESIGNATED AGENT CARRY S. RANSON
 ADDRESS 280 SANDERS W. Blvd. SUITE 200 ADDRESS 900 CORE ROAD
 KNOXVILLE, TENNESSEE 37922 PARKERSBURG, WV 26101

RECEIVED
 Office of Oil and Gas
 MAY 16 2024
 Department of Environmental Protection
 1063
 06/07/2024

47081010639

WW-4A
Revised 6-07

1) Date: 5/8/2024
2) Operator's Well Number BEAVER 111

3) API Well No.: 47 - 081 - 01063

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>Beaver Coal Company, Limited</u>	Name <u>Not Currently Operated</u>
Address <u>354 Log Cabin Rd.</u>	Address _____
<u>Beaver, WV 25813</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Beaver Coal Company, Limited</u>
_____	Address <u>354 Log Cabin Rd.</u>
_____	<u>Beaver, WV 25813</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Murdock Howard</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 140</u>	Name _____
<u>Oak Hill, WV 25901</u>	Address _____
Telephone <u>(681) 990-2568</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 Diversified Production, LLC
 By: Chris Veazey
 Its: Director of Administration
 Address 414 Summers Street
Charleston, WV 25301
 Telephone 304-590-7707

RECEIVED
 Office of Oil and Gas
 MAY 16 2024

Subscribed and sworn before me this 9th day of May, 2024
Jeffrey Bush Notary Public
 My Commission Expires September 28, 2028

WV Department of Environmental Protection

Oil and Gas Privacy Notice

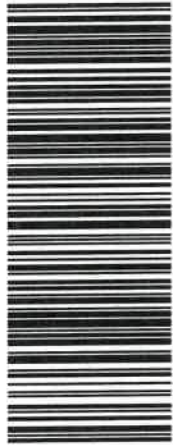
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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 depprivacyoffier@wv.gov.

06/07/2024

4708101
4708101063P

Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
CHARLESTON WV 25301

USPS CERTIFIED MAIL™



9407 1362 0855 1999 4296 41



BEAVER COAL COMPANY LIMITED
354 LOG CABIN RD
BEAVER WV 25813-6700

US POSTAGE AND FEES PAID
2024-05-09
25301
C4000004
Retail
4.0 OZ FLAT



0901000010733



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WV Department of
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06/07/2024

SURFACE OWNER WAIVER

4708101063P

Operator's Well
Number

BEAVER 111

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
ETC.

FOR EXECUTION BY A CORPORATION,

<p>Signature _____</p> <p style="text-align: center;">RECEIVED Office of Oil and Gas</p> <p style="text-align: center;">MAY 16 2024</p> <p style="text-align: center;"><small>WV Department Environmental Protection</small></p>	<p>Name _____</p> <p>By _____</p> <p>Its _____</p> <p>Signature _____</p> <p>Date _____</p> <p style="text-align: right;">06/07/2024</p>
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WW-4B

4708101063 P

API No.	<u>4708101063</u>
Farm Name	<u>Beaver Coal Company, LTD</u>
Well No.	<u>BEAVER 111</u>

**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
MAY 16 2024
WV Department of
Environmental Protection

06/07/2024



DIVERSIFIED
energy

4708101063 P

Date: 5/8/2024

James Martin
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304)926-0450

Mr. Martin,

Due to our cement provider, LaFarge Holcem, discontinuing the manufacturing of Class A cement, DGOC will be utilizing Class L cement to plug the following well:

API Number 4708101063 Well Name BEAVER 111

Attached is the approved variance order for use of Class L cement.

Sincerely,

Chris Veazey
Permitting Supervisor
304-590-7707

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Office of Oil and Gas

MAY 16 2024

WV Department of
Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-13
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA



James Martin, Chief
Office of Oil and Gas

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

Operator Name: Diversified Production, LLC OP Code 494524121

Watershed (HUC 10) Winding Gulf Quadrangle Crab Orchard 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: Production fluid and cement returns.

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 2D03902327 002)
- 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: 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. N/A

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? N/A

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 *Chris Veazey*

Company Official (Typed Name) Chris Veazey

Company Official Title Permitting Supervisor



Subscribed and sworn before me this 9th day of May, 2024

Jeffrey Bush Notary Public

My commission expires September 28, 2028

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Proposed Revegetation Treatment: Acres Disturbed 4.1 ac. Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 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.

Plan Approved by: Meredith Howard

Comments: Operator to cover with cement all oil and gas formations including salty elevation, coals and fresh water

Title: Inspector Date: 5/13/24

Field Reviewed? Yes No

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4708101063P



Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41061

47-081-01063

Plugging Map

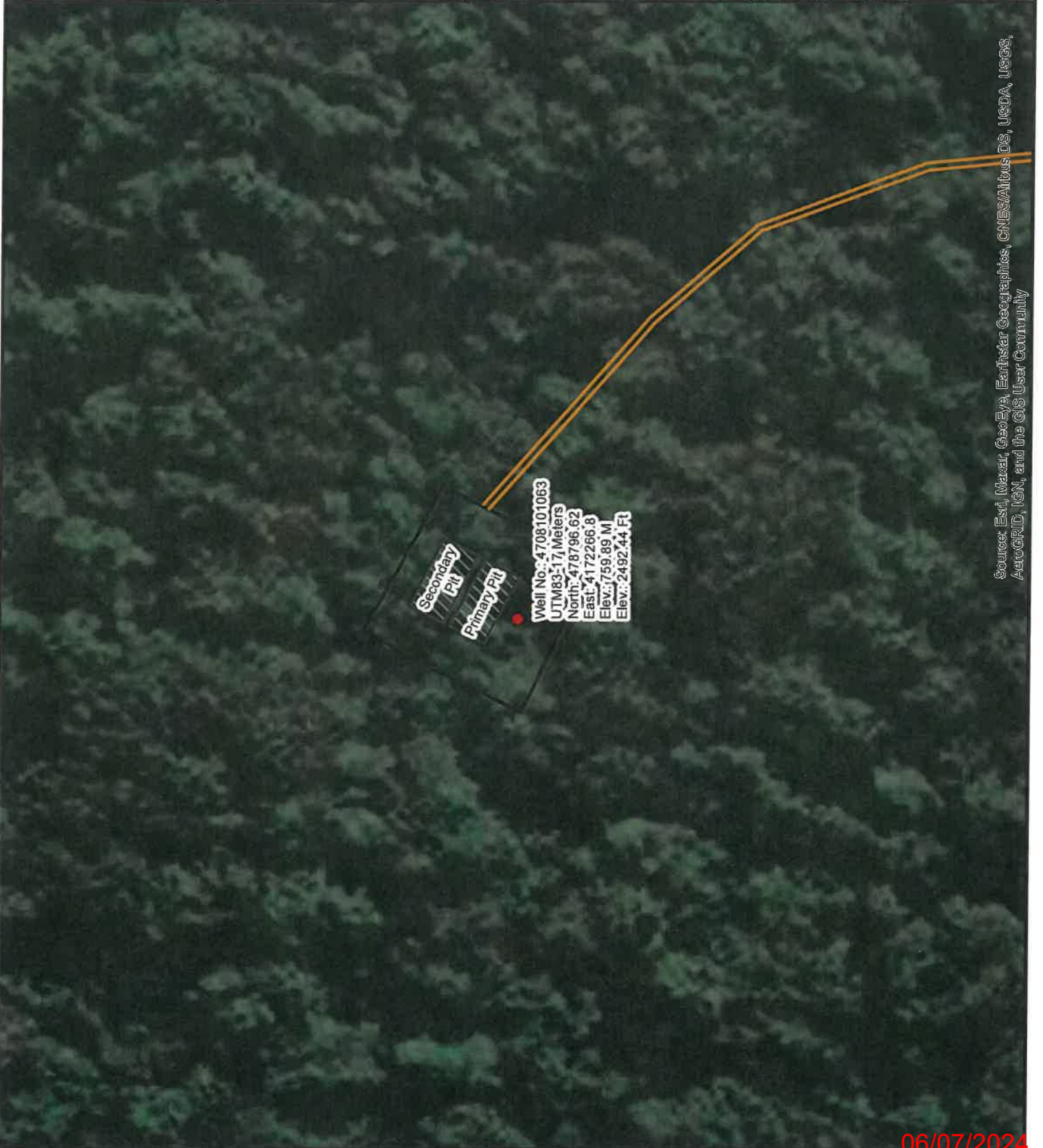
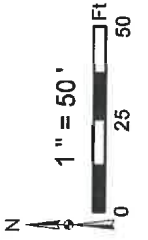
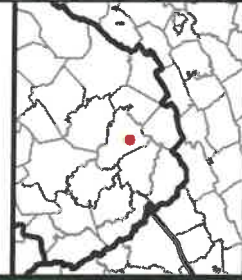
Legend

- Well
- Access Road
- ▨ Pits
- Pad
- Public Roads

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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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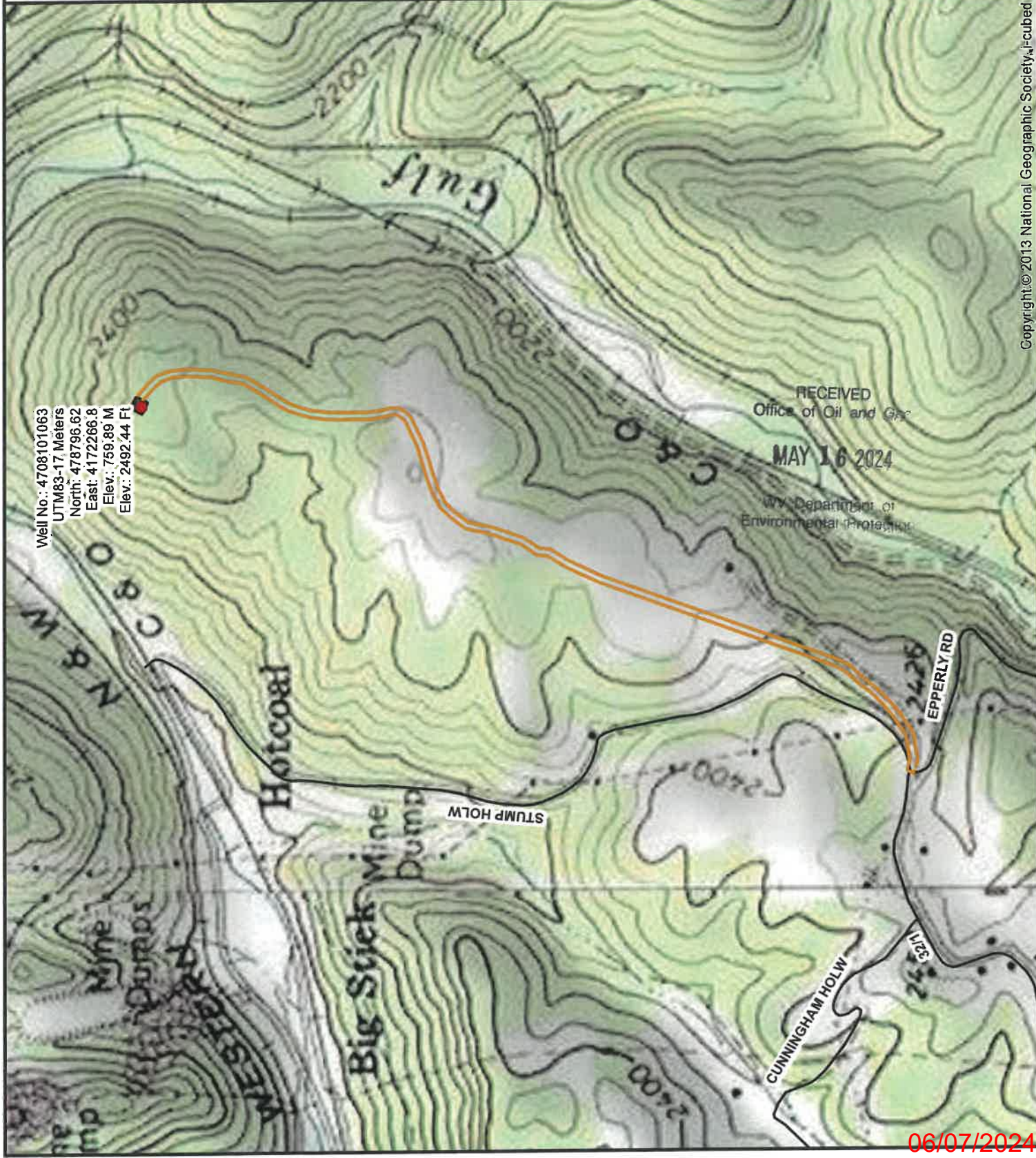
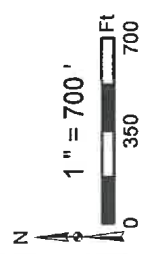
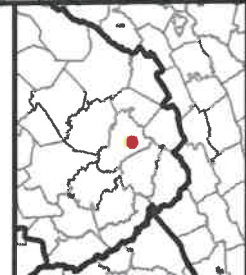


Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

47-081-01063
Plugging Map

Legend

- Well
- Access Road
- Pits
- Pad
- Public Roads



Well No.: 4708101063
 UTM83-17, Meters
 North: 478796.62
 East: 4172266.8
 Elev.: 759.89 M
 Elev.: 2492.44 Ft

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WW-7
8-30-06

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

API: 4708101063 WELL NO.: BEAVER 111

FARM NAME: Beaver Coal Company, LTD

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Raleigh DISTRICT: Slab Fork

QUADRANGLE: Crab Orchard 7.5'

SURFACE OWNER: Beaver Coal Company, Limited

ROYALTY OWNER: Beaver Coal, LTD

UTM GPS NORTHING: 478796.62

UTM GPS EASTING: 4172266.8 GPS ELEVATION: 2492.44'

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

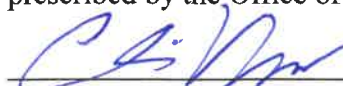
Real-Time Differential

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

Chris Veazey - Director of Administration
Title

5/9/24
Date

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PLUGGING PERMIT CHECKLIST
4708101063

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A

- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL

- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

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