



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

Monday, August 21, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for ELKEM 4 B 57
47-019-00689-00-00

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. The signature is stylized and appears to read "Jim Martin".

Operator's Well Number:
Farm Name: ELKEM METALS CO.
U.S. WELL NUMBER: 47-019-00689-00-00
Vertical Plugging
Date Issued: 8/21/2023

Promoting a healthy environment.

08/25/2023

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.

08/25/2023

1) Date July 27, 2023
2) Operator's
Well No. Elkem 4B 57
3) API Well No. 47-019 -00689

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 680.46' Watershed Kanawha River
District Valley County Fayette Quadrangle Montgomery 7.5'
- 6) Well Operator Diversified Production, LLC 7) Designated Agent Chris Veazey
Address 414 Summers Street Address P.O. Box 381087
Charleston, WV 25301 Birmingham, AL 35238
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name Next LVL Energy (Diversified Owned)
Address PO Box 1207 Address 104 Helliport Loop Rd
Clendenin, WV 25045 Bridgeport, WV 25330

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

See Attached

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

Work order approved by inspector  Date 8/2/23

08/25/2023

I (1827-1902) 14 holes, 500 gal 15% Hcl, 250sks Sand, 31388L H2O

II(1735-1766) 13holes, 500 gal Hcl, 450 sks sand, 42588L H2O

III (1625-1672) 11holes, 500 gal 15% Hcl, 3000 gal 28% Hcl

Fill	0-32	2" fo Total H2O
Sand & Shale	32-65	65, 149, 393, 450
Sand	65-268	
Shale	268-275	
Sand	275-787	
Sand & Shale	787-1111	
Sand	1111-1144	DampC 1110
Sand & Shale	1144-1387	
L.Lime	1387-1418	
Shale	14181434	
B. Lime	1434-1660	Gas show
B. Injun	1660-1742	Gas show
Pocono	1742-1778	
Shale	1778-1782	
Weir	1782-1804	Gas show
Shale	1804-1840	
L. Weir	1840-1931	
Shale	1931-1979	DTD

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Plugging Prognosis

API #: 4701900689

West Virginia, Fayette Co.

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

Casing Schedule:

16" @ 38'

13-3/8" @ 74' (CTS per report)

7" @ 1036' (cemented to surface w/ 340 sx cmt)

4-1/2" @ 1913' (cemented to 661' w/ 90 sx cmt)

TD @ 1979'

680 ft
Elevation

Completion – Injun/Weir/Big Lime – 1625'-1672'; 1735'-1766'; 1827'-1902'

Fresh Water: 37'; 65'; 149'; 393'; 450'

Salt Water: 1110'

Gas Shows: 1434'-1660'; 1660'-1742'; 1782'-1804'

Oil Shows: None listed

Coal: None listed

Elevation: 680'

1. Notify Inspector for Fayette County, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. Run in to depth @ 1902'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 568' Class L cement plug from **1902' to 1334' (Completion, gas shows plug)** Tag TOC. Top off as needed.
5. TOO H w/ tbg to 1334'. Pump 6% bentonite gel from 1334' to 1160'.
6. TOO H H w/ tbg to 1160'. Pump 193' Class L cement plug from **1160' to 986' (7" csg shoe depth, saltwater plug)**.
7. TOO H w/ tbg to 986'. Pump 6% bentonite gel from 986' to 720'.
8. Free point 4-1/2" csg. Cut and TOO H. Set 100' Class L cement plug across csg cut. 50' in/out of cut. Pump 6% bentonite gel from top of plug to 613' **Do not omit any plugs listed below. Perforate as needed.**
9. TOO H w/ tbg to 720'. Pump 720' Class L cement plug from **720' to surface. (Elevation, 13-3/8" csg shoe, freshwater, Surface plug)**
10. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

Operator to Cover with Cement parts, Oil/Gas information including SALT, Elevation, Coals and Freshwater

 8/2/23

08/25/2023

ak

1) Date: 7/27/2023
2) Operator's Well Number Elkem 4B 57

3) API Well No.: 47 - 019 - 00689

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>WVA Manufacturing LLC</u>	Name <u>Boone East Development Co.</u>
Address <u>PO Box 158</u>	Address <u>PO Box 271</u>
<u>Alloy, WV 25002</u>	<u>Julian, WV 25529</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WVA Manufacturing LLC</u>
(c) Name _____	Address <u>PO Box 158</u>
Address _____	<u>Alloy, WV 25002</u>
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>(304) 549-5915</u>	_____

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

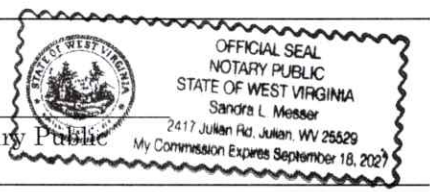
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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	<u>Diversified Production, LLC</u>	RECEIVED Office Of Oil and Gas <u>AUG 7 2023</u> WV Department of Environmental Protection
By:	<u>Chris Veazey</u> <i>Chris</i>	
Its:	<u>Permitting Supervisor</u>	
Address	<u>414 Summers Street</u> <u>Charleston, WV 25301</u>	
Telephone	<u>304-590-7707</u>	

Subscribed and sworn before me this 27th day of July 2023
Sandra L. Messer
My Commission Expires Sept. 18, 2027



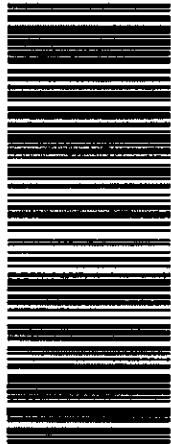
Oil and Gas Privacy Notice

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.

08/25/2023

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

USPS CERTIFIED MAIL™



9407 1361 0544 0135 3103 91



BOONE EAST DEVELOPMENT CO
PO BOX 271
JULIAN WV 25529

US POSTAGE AND FEES PAID
2023-07-27
25301
C4400004
Retail
5.0 OZ/FLAT



090100008945



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

USPS CERTIFIED MAIL™



9407 1361 0544 0135 2997 33



WVA MANUFACTURING LLC
PO BO 158
ALLOY WV 25002

US POSTAGE AND FEES PAID
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C4000004
Retail
5.0 OZ/LAT



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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) Kanawha River Quadrangle Montgomery 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.

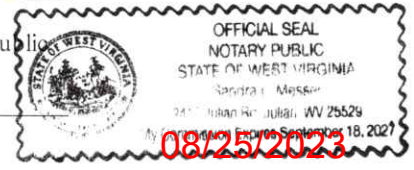
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 Manager Plugging Operations

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Subscribed and sworn before me this 27th day of July, 2023

Sandra L. Messer Notary Public
My commission expires Sept. 18, 2027



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

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount TBD 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: Roy Howard

Comments: _____

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Title: Inspector

Date: 8/2/23

Field Reviewed? () Yes () No

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CV



DIVERSIFIED
energy

Date: 7/27/2023

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 4701900689 Well Name Elkem 4B 57

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
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)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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

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

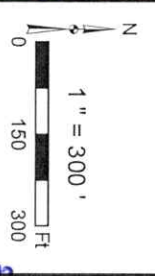
08/25/2023

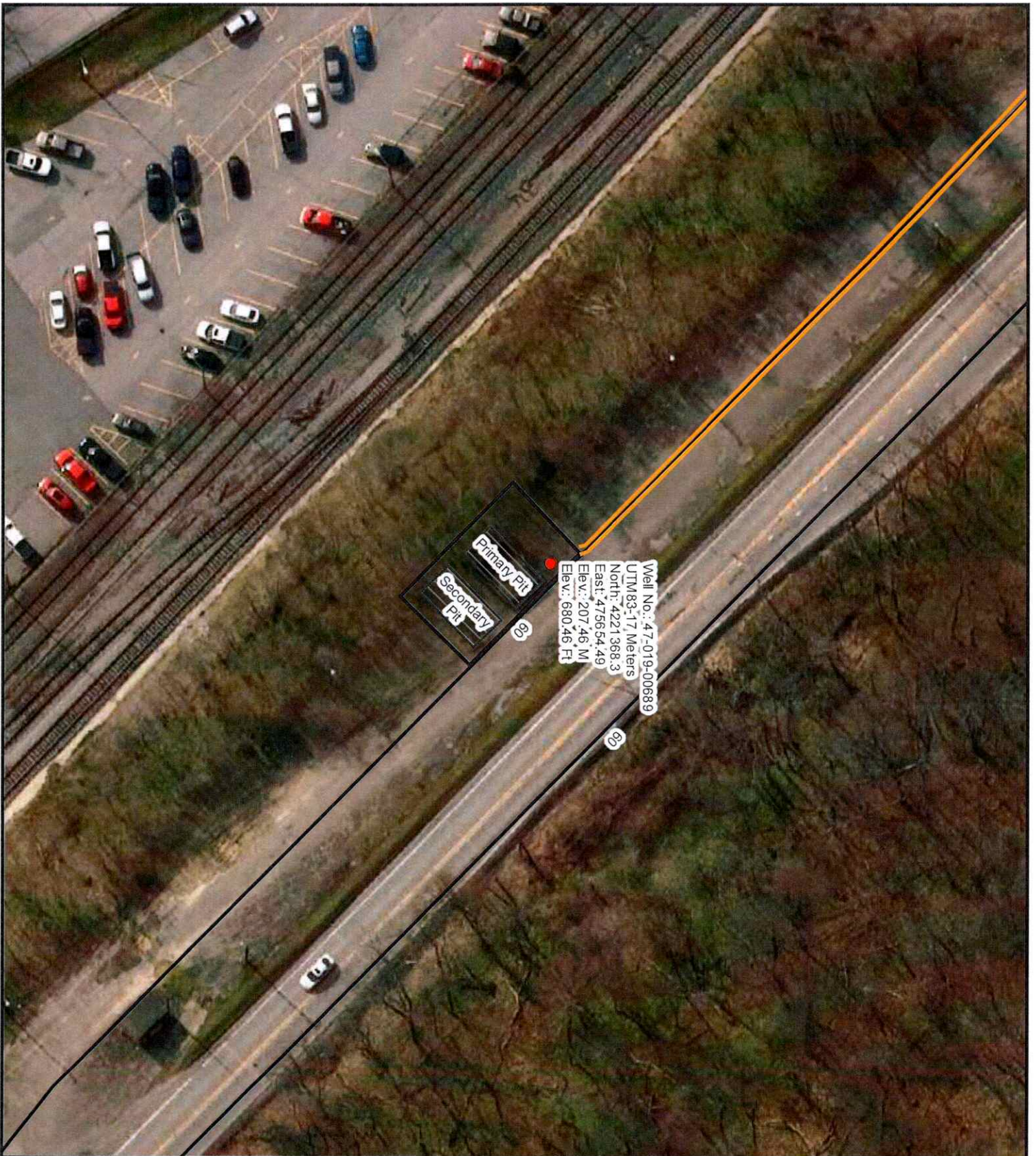
47-019-00689

Plugging Map

Legend

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










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

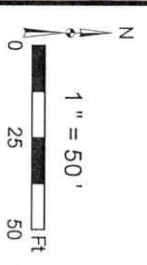
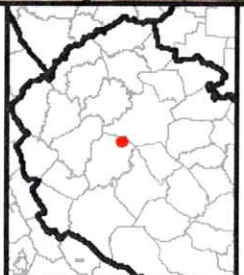
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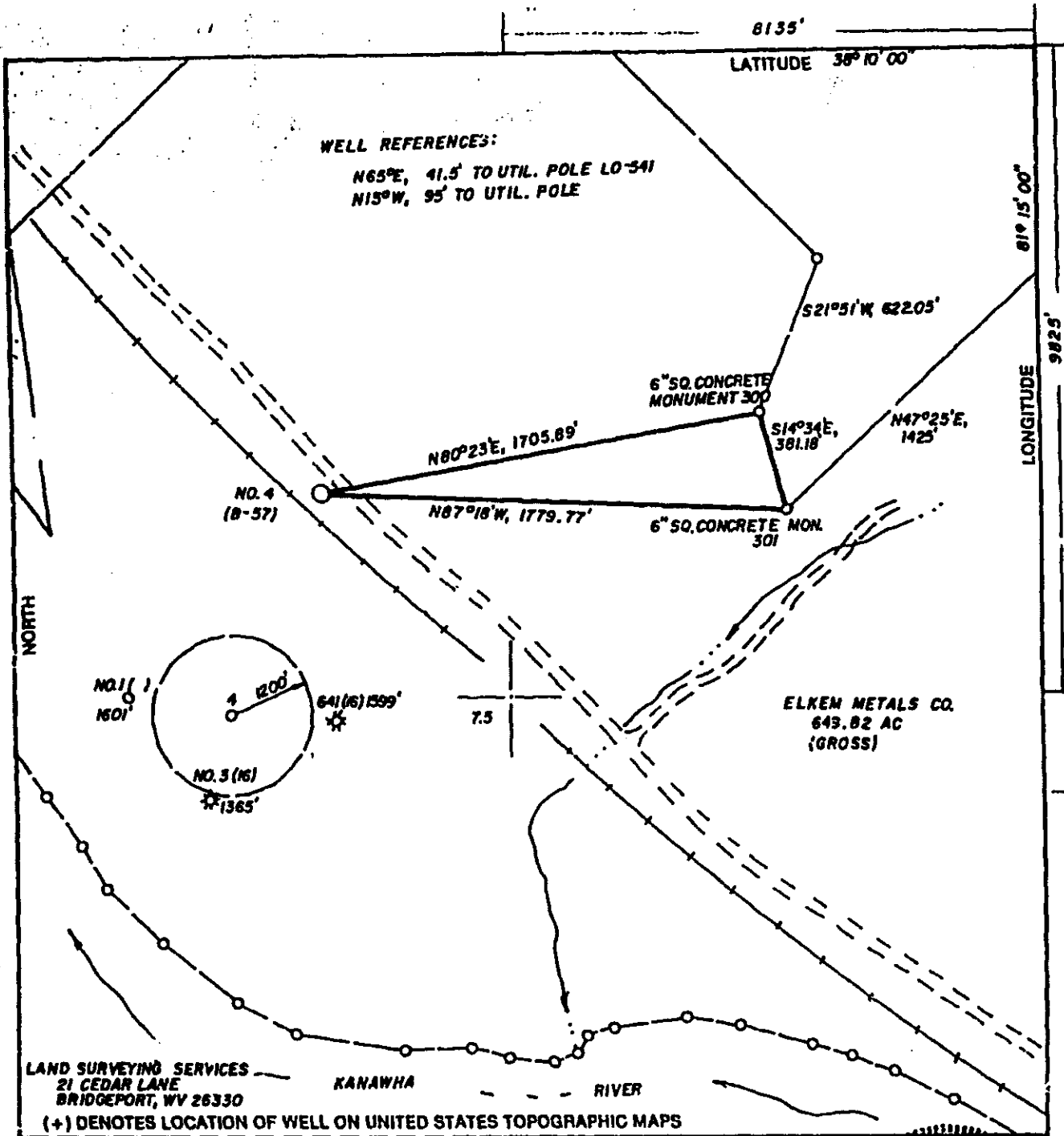
47-019-00689

Plugging Map

Legend

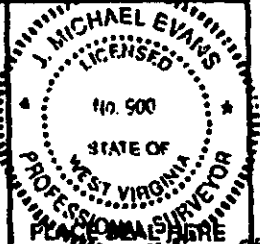
-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads





FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. 446' NW. OF LOC. AT ELEV. 676'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) J. Michael Evans
 R.P.E. _____ I.L.S. 900



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE DECEMBER 23, 19 91
 OPERATOR'S WELL NO. ELKEM 4
 API WELL NO. B-57
47-019-0689
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 680.5 WATERSHED GREAT KANAWHA RIVER
 DISTRICT VALLEY COUNTY FAYETTE
 QUADRANGLE MONTGOMERY 7.5'

SURFACE OWNER ELKEM METALS CO. ACREAGE .30
 OIL & GAS ROYALTY OWNER ELKEM METALS CO. LEASE ACREAGE 2253.32
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR

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 WV Department of Environmental Protection

COUNTY NAME
 FAYETTE

08/23/2023

FORM W.

WW-7
8-30-06



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

API: 4701900689 WELL NO.: Elkem 4B 57

FARM NAME: Elkem Metals

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Montgomery 7.5'

SURFACE OWNER: WVA Manufacturing LLC

ROYALTY OWNER: WVA Manufacturing LLC, Penn Virginia Operating Co LLC

UTM GPS NORTHING: 4221368.3

UTM GPS EASTING: 475654.49 GPS ELEVATION: 680.46'

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 X : Post Processed Differential X

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.

Signature

Chris Veazey - Permitting Supervisor
Title

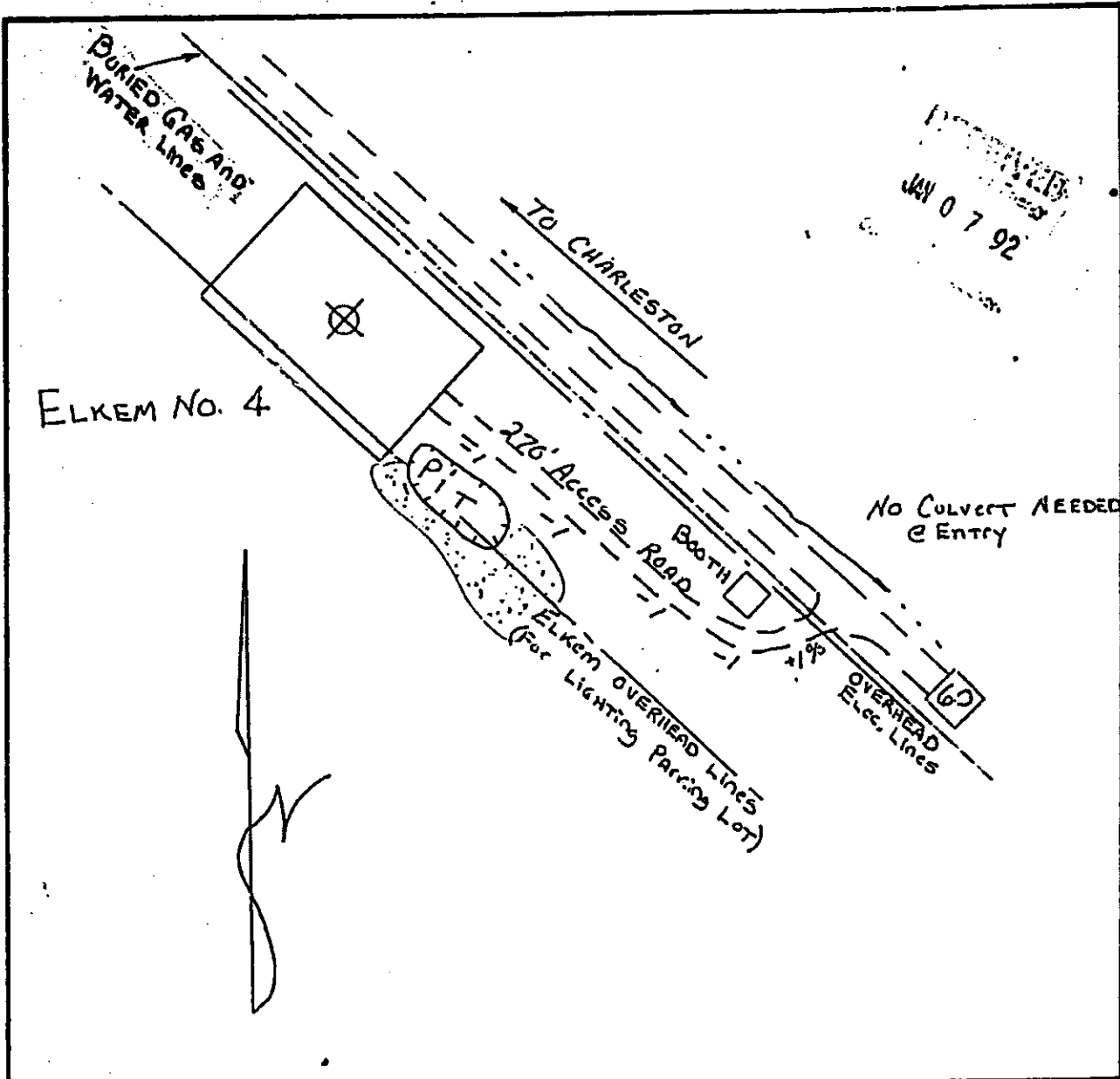
07/27/23
Date

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The location and pit will be constructed in a rough asphalt parking lot.

DRAWINGS TO ACCOMPANY FORM WW-9	
<u>Bowie, Incorporated</u>	
<u>P. O. Box 1430</u>	
<u>Clarksburg, WV 26302-1430</u>	
WATERSHED: <u>Kanawha River</u>	
DIST: <u>Valley</u>	CO: <u>Fayette</u>
STATE: <u>WV</u>	OWN: <u>Elkem 4</u>
DATE: <u>12/24/91</u>	PAGE <u>B-57</u> OF <u> </u>

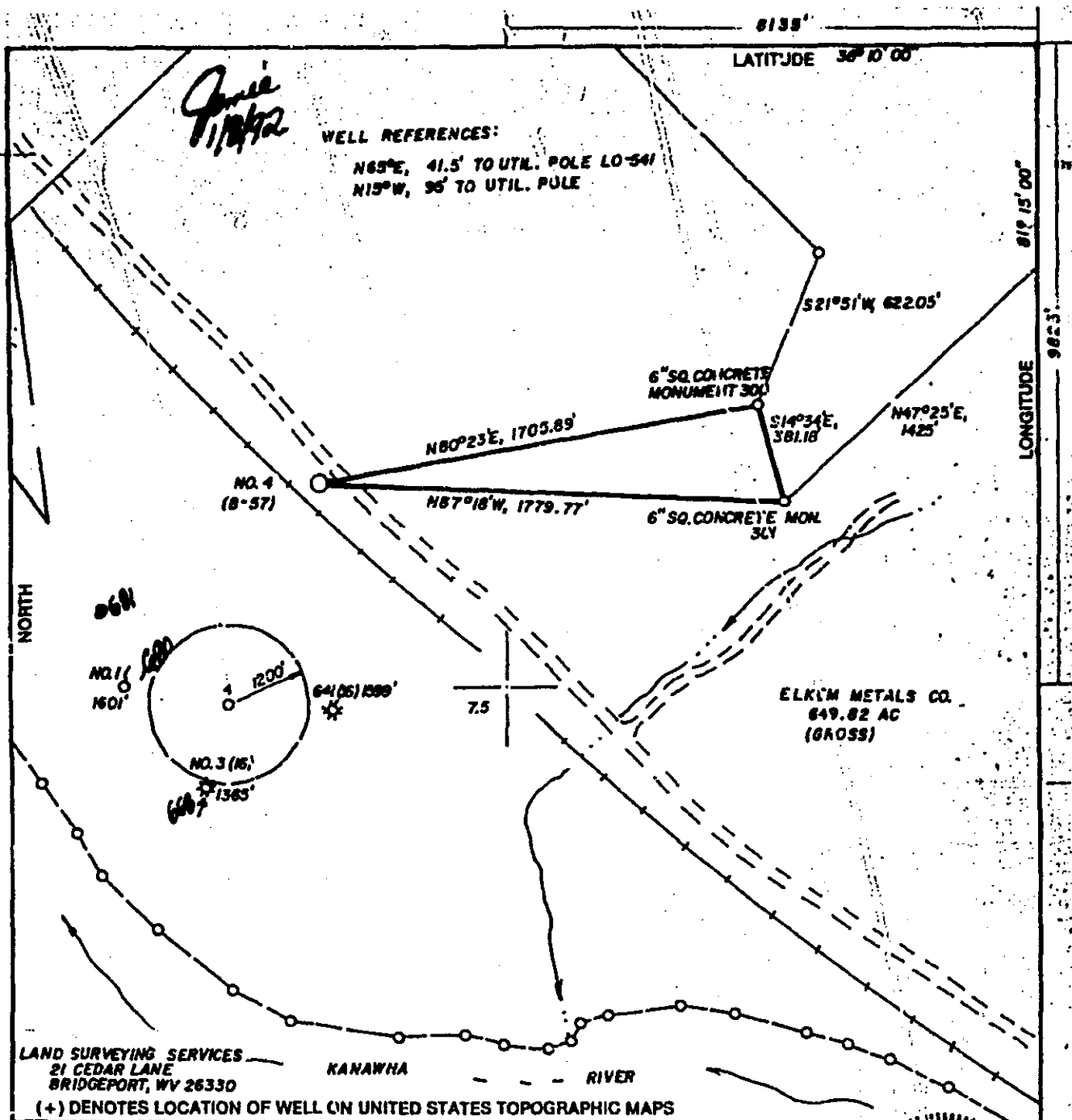
LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-642-2018

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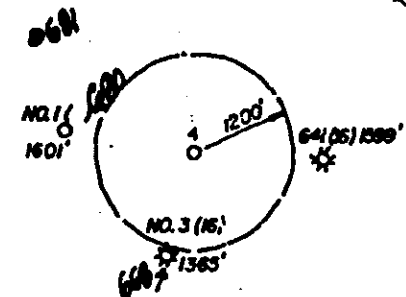
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WELL REFERENCES:
 N65°E, 41.5' TO UTIL. POLE LO-541
 N15°W, 95' TO UTIL. POLE

8138'
 LATITUDE 36° 10' 00"
 819 15' 00"
 9223'
 LONGITUDE



ELKEM METALS CO.
 649.82 AC
 (GROSS)

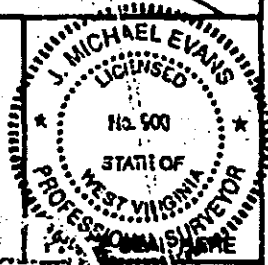
LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330

KANAWHA RIVER

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.V. 446' NW. OF LOC. AT ELEV. 675'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) J. Michael Evans
 R.P.E. _____ I.L.S. 900



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE DECEMBER 22 19 91
 OPERATOR'S WELL NO. ELKEM 4
 API WELL NO. 57

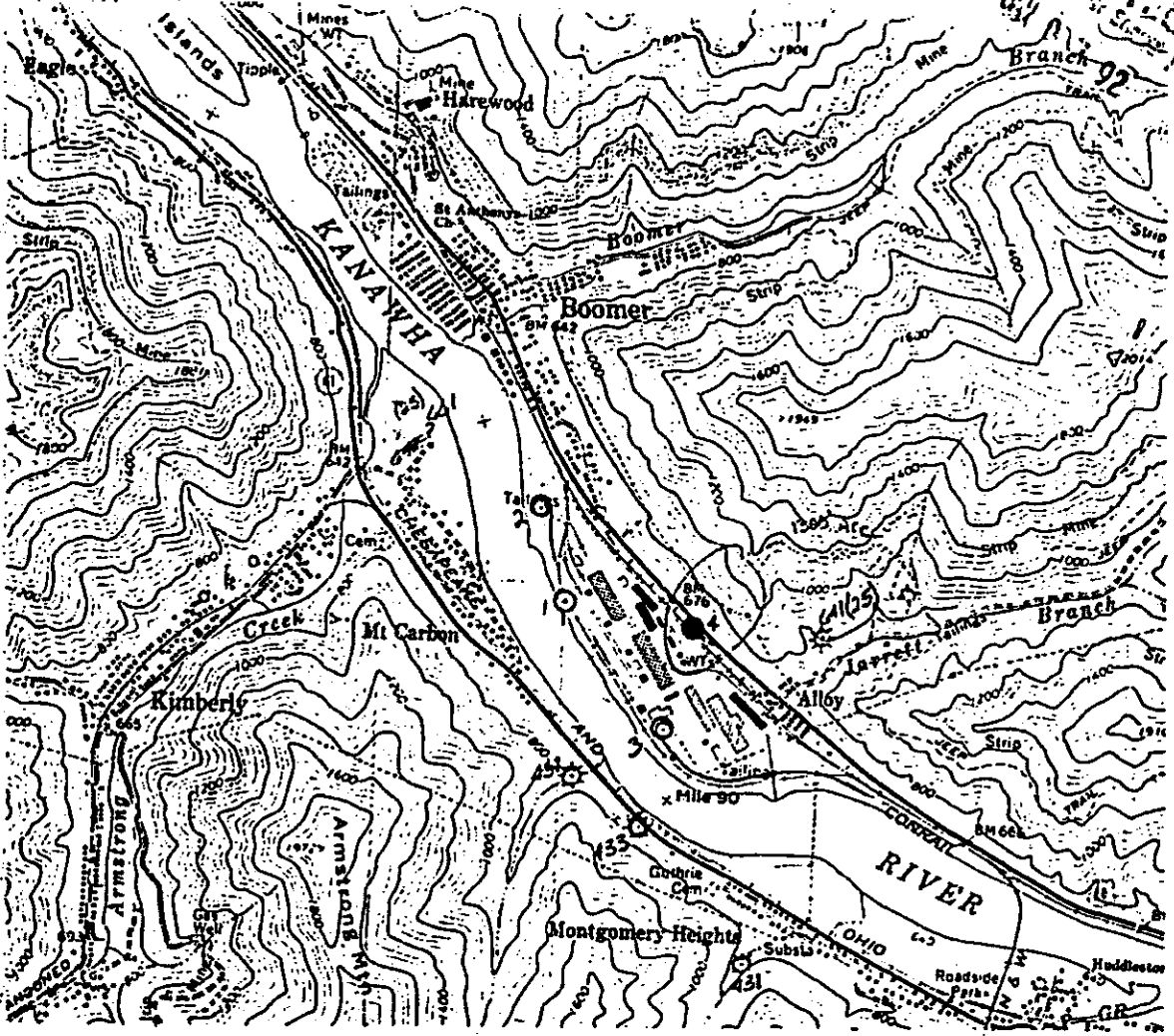
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 680.5 WATERSHED GREAT KANAWHA RIVER
 DISTRICT VALLEY COUNTY FAYETTE
 QUADRANGLE MONTGOMERY 7.5'
 SURFACE OWNER ELKEM METALS CO. ACREAGE .30
 OIL & GAS ROYALTY OWNER ELKEM METALS CO. LEASE ACREAGE 2233.32
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW

08/25/2023

FORM W.

COUNTY NAME

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4/11/2023



DRAWINGS TO ACCOMPANY FORM WW-9

Bowie, Incorporated

P. O. Drawer 1430

Clarksburg, WV 26302-1430

WATERSHED: Kanawha River

DIST: Valley co.: Fayette

STATE: WV OWN: Eiken 4

DATE: 12/24/91 PAGE B-57 OF

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-811-2618

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WV Department of
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WR-35

09-Jan-92
API # 47- 19-00689

Reviewed TMC State of West Virginia
Recorded _____ Division of Environmental Protection
Section of Oil and Gas

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B 57
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Well Operator's Report of Well Work

Farm name: ELKEM METALS CO Operator Well No.: ELKEM 4 B 57
LOCATION: Elevation: 680.50 Quadrangle: MONTGOMERY
District: VALLEY County: FAYETTE
Latitude: 9825 Feet South of 38 Deg. 10Min. 0 Sec.
Longitude 8135 Feet West of 81 Deg. 15 Min. 0 Sec.

Company: BOWIE, INC.
P.O. DRAWER 1430
CLARKSBURG, WV 26302-1430

Agent: WILLIAM H. BOWIE

Inspector: RODNEY G. DILLON
Permit Issued: 01/09/92
Well work Commenced: 2-5-92
Well work Completed: 2-13-92
Verbal Plugging
Permission granted on: _____
Rotary x Cable Rlg
Total Depth (feet) 1979 DTD
Fresh water depths (ft) _____
37,65,149,393,450
Salt water depths (ft) _____
1110

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	74'	74'	CTS
7"	1036'	1036'	340sks
16"	38'	38'	--
4 1/2"	1913	1913	90sks

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None Reported

OPEN FLOW DATA

Producing formation Injun - Weir Pay zone depth (ft) 1735-19
Gas: Initial open flow show MCF/d Oil: Initial open flow show Bbl/c
Final open flow 335 MCF/d Final open flow N/A Bbl/c
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 270 psig (surface pressure) after 48 Hours

Second producing formation Big Lime Pay zone depth (ft) 1625-16
Gas: Initial open flow Show MCF/d Oil: Initial open flow show Bbl/c
Final open flow 335 MCF/d Final open flow N/A Bbl/c
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 270 psig (surface pressure) after 48 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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Permitting
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WV Division of
Environmental Protection

For: BOWIE, INC.

By: W. Bowie
Date: 7/7/92

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FAY. 0689

08/25/2023

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Division of Environmental Protection
Section of Oil and Gas
Recorded _____

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Environmental Protection

Well Operator's Report of Well Work

Farm name: ELKEM METALS CO Operator Well No.: ELKEM 4-B 57

LOCATION: Elevation: 680.50 Quadrangle: MONTGOMERY

District: VALLEY County: FAYETTE
Latitude: 9825 Feet South of 38 Deg. 10Min. 0 Sec.
Longitude 8135 Feet West of 81 Deg. 15 Min. 0 Sec.

Company: BOWIE, INC.
P.O. DRAWER 1430
CLARKSBURG, WV 26302-1430

Agent: WILLIAM H. BOWIE

Inspector: RODNEY G. DILLON
Permit Issued: 01/09/92
Well work Commenced: 2-5-92
Well work Completed: 2-13-92
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 1979 DTD
Fresh water depths (ft) _____
37,65,149,393,450
Salt water depths (ft) _____
1110
Is coal being mined in area (Y/N)? N
Coal Depths (ft): None Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
1 3/8"	74'	74'	CTS
7"	1036'	1036'	340sks
1 1/2"	38'	38'	--
4 1/2"	1913	1913	90sks

OPEN FLOW DATA

Producing formation Injun - Weir Pay zone depth (ft) 1735-19
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FAY. 0689

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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Permitting
AUG 03 92
WV Division of
Environmental Protection

For: BOWIE, INC.
By: W. Bowe
Date: 7/7/92

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AUG 7 2023

WV Department of
Environmental Protection



DIVERSIFIED
energy

July 27, 2023

Terry Urban
PO Box 1207
Clendenin, WV 25045

Mr. Urban

Please find enclosed a Permit Application to plug API# 47-019-00689, in Fayette County, WV.

If you have any questions, comments, or if you require additional information, please feel free to contact me at 304-590-7707.

Thank You,

Chris Veazey
Chris Veazey

Permitting Supervisor

Diversified Energy Company

414 Summers St.

Charleston, WV 25301

(304) 590-7707

Email: cveazey@dgoc.com

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WV Department of
Environmental Protection

414 Summers Street
Charleston, WV 25301

08/25/2023

11/10/2016

PLUGGING PERMIT CHECKLIST
4701900689

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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SURFACE OWNER WAIVER

Operator's Well
Number

Elkem 4B 57

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..."

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WV Department of Environmental Protection

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,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		_____ Date _____

Signature _____ Date **08/25/2023**

WW-4B

API No.	<u>4701900689</u>
Farm Name	<u>Elkem Metals</u>
Well No.	<u>Elkem 4B 57</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

AUG 7 2023

WV Department of
Environmental Protection

08/25/2023



Kennedy, James P <james.p.kennedy@wv.gov>

plugging permit issued 4701900689

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Mon, Aug 21, 2023 at 9:53 AM

To: Chris Veazey <CVeazey@dgoc.com>, Austin Sutler <asutler@nextlvlenergy.com>, Phyllis Copley <pcopley@dgoc.com>, eyoung1@assessor.state.wv.us, Roy W Howard <roy.w.howard@wv.gov>

To whom it may concern, a plugging permit has been issued for 4701900689.

James Kennedy

WVDEP OOG

 **4701900689.pdf**
2832K

08/25/2023