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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, March 29, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

ALLIANCE PETROLEUM CO., LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for EM3-B41  
47-019-00668-00-00

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: EM3-B41  
Farm Name: ELKEM METALS CO.  
U.S. WELL NUMBER: 47-019-00668-00-00  
Vertical Plugging  
Date Issued: 3/29/2021

Promoting a healthy environment.

04/02/2021

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4701900668P

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

04/02/2021

4701900668P

WW-4B  
Rev. 2/01

1) Date January 11, 2021  
2) Operator's  
Well No. 12947  
3) API Well No. 47-019 - 00668

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 648 ft Watershed Kanawha River  
District Valley County Fayette Quadrangle Montgomery

6) Well Operator Alliance Petroleum Company 7) Designated Agent Jeff Mast  
Address P.O. Box 6070 Address P.O. Box 6070  
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gary Kennedy Name Diversified Production, LLC  
Address 68 Old Church Lane Address 1951 Pleasant View Ridge Road  
Pipestem, WV 25979 Ravenswood, WV 26164

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  Date 1/15/21

04/02/2021

## PLUGGING PROGNOSIS

West Virginia, Fayette County

API # 47-019-00668

38.1360036010394, -81.2792331269707

Nearest ER: Montgomery General Hospital 401 Sixth Ave, Montgomery, WV 25136

**Casing Schedule**

16" @ 61'

11 3/4" @ 130' cemented to surface w/ 120 sks

8 5/8" csg @ 846' cemented to surface w/ 256 sks.

4 1/2" csg @ 1943' cemented to surface w/ 250 sks.

TD @ 2031'

**Completion**

1st Stage: Weir (1780'-1800')

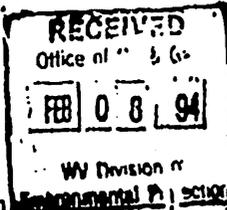
2nd Stage: Big Injun (1685'-1730')

**Fresh Water:** 52', 77', 130', 178', 341'**Saltwater:** None Reported**Coal:** 184'**Gas Show:** Injun 1685'-1730', Weir 1780'-1800'**Elevation:** 787'

1. Notify inspector, Gary Kennedy 304-382-8402, 48 hrs. prior to commencing operations.
2. Record Pressures on csg.
3. Tag TD w/ wireline.
4. TIH w/ tbg to 1800'. Kill well as needed with 6% bentonite gel.
5. Pump 215' Class A cement plug from **1800'-1585'(Weir and Injun completions)**
  - a. Tag TOC and top off as needed.
6. TOOH w/ tbg to 1585'. Load hole with 6% bentonite gel from: 1585'-787'.
7. TOOH w/ tbg to 787'. Pump 100' C1A cement plug from **787'-687' (Elevation)**.
8. TOOH w/ tbg to 687'. Pump 6% bentonite gel from 687'-391'.
9. TOOH w/ tbg to 391'. Pump 100' C1A cement plug from **391'-0'. (Fresh Water, Coal, and Surface)**. TOOH LD tbg.
10. Erect monument with API#, date plugged, & company name.
11. Reclaim location and road to WV-DEP specifications.

WR-345

API # 47-19-668



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

Well Operator's Report of Well Work

Farm, n Leake, E. / Fred Gerish Operator Well No.: Elkem #3 B-41

RECEIVED  
Office of Oil and Gas

LOCATION: Elevation: 787.00 Quadrangle: Montgomery

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District: Valley County: Fayette  
Latitude: 9610 Feet South of 38 Deg. 12 Min. 30 Sec.  
Longitude 9280 Feet West of 81 Deg. 10 Min. 0 Sec.

WV Department of  
Environmental Protection

Company: BOWIE, INC.  
P.O. BOX 1430  
CLARKSBURG, WV 26301-1430

Agent: WILLIAM H. BOWIE

Inspector: Rodney Dillon  
Permit Issued: 10/07/91  
Well work Commenced: 9-18-91  
Well work Completed: 10-3-91  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 2031 DTD  
Fresh water depths (ft) \_\_\_\_\_  
52, 77, 130, 178, 341  
Salt water depths (ft) \_\_\_\_\_  
N/A  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 184, 188

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	61'	61'	--
11 3/4	130	130	120sk
8 5/8	846	846	256sk
4 1/2	1943	1943	250sk

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 1780-1800  
Gas: Initial open flow show MCF/d Oil: Initial open flow na Bbl/d  
Final open flow 375 MCF/d Final open flow na Bbl/d  
Time of open flow between initial and final tests 4 Hour:  
Static rock Pressure 350 psig (surface pressure) after 24 Hour:

Second producing formation Big Injun Pay zone depth (ft) 1685-1730  
Gas: Initial open flow show MCF/d Oil: Initial open flow na Bbl/d  
Final open flow commingled MCF/d Final open flow na Bbl/d  
Time of open flow between initial and final tests 4 Hour:  
Static rock Pressure Commingled psig (surface pressure) after \_\_\_\_\_ Hour:

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BOWIE, INC.  
By: William Bowie  
Date: \_\_\_\_\_

UNIT IV-35  
(REVERSE)

DETAILS OF IDENTIFIED INTERVALS, FLUCTUATIONS OR SPENTIATIONS, PHYSICAL CHANGE, ETC.

I (1780-1800) 14 holes, 500 gal 15% HCL, 400 BBL H<sub>2</sub>O, 450 SKS 20/40 SAND

II (1686-1730) 16 holes, 500 gal 15% HCL, 350 BBL H<sub>2</sub>O, 360 SKS 20/40 SAND

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	DEPTH FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
FILL			0	49	
Sand & shale			49	184	Damp 52', 4" H <sub>2</sub> O @ 77', 1" @ 130', 3" H <sub>2</sub> O
Coal			184	188	
Sand & shale			188	335	
Sand			335	749	6" H <sub>2</sub> O @ 341'
Red rock & shale			749	920	Damp @ 960 & 994
Sand & shale			920	104	
SAND			1104	1166	
Sand & shale			1166	1355	
Little Lime			1355	1395	
shale			1395	1436	
Big Lime			1436	1712	
Big Iron			1710	1747	GAS SHOW
shale & sand			1747	1766	
WEIR			1766	1775	GAS SHOW
shale			1775	1860	
LOWER WEIR			1860	1895	
shale			1895	2031	DTA

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Office of Oil and Gas

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WV Department of  
Environmental Protection

WW-4A  
Revised 6-07

1) Date: January 11, 2021  
2) Operator's Well Number  
12947

3) API Well No.: 47 - 019 - 00668

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>WV Manufacturing, LLC</u>	Name _____
Address <u>P.O. Box 158</u>	Address _____
<u>Alloy, WV 25002</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Elkem Metals Co.</u>
	Address <u>RR 60 Box East</u>
	<u>Alloy, WV 25002</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>68 Old Church Lane</u>	Name _____
<u>Pipestem, WV 25979</u>	Address _____
Telephone <u>304-382-8402</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 Alliance Petroleum, LLC  
 By: [Signature] Jeff Mast  
 Its: Director Production  
 Address P.O. Box 6070  
Charleston, WV 25362  
 Telephone 304-543-6988

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Office of Oil and Gas

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Subscribed and sworn before me this 11th day of January, 2021  
Phyllis A. Copley Notary Public  
 My Commission Expires September 16, 2023

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 [depprivacvoffier@wv.gov](mailto:depprivacvoffier@wv.gov).

4701900668P

Well 12947

API 47-019-00668

7017 1450 0002 3854 1082

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Alloy, WV 25002

**OFFICIAL USE**

Certified Mail Fee	\$3.55	0523
\$		01
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.40	
\$		
<b>Total F</b>	<b>\$7.80</b>	01/12/2021
\$	12947	
Sent To	WV Manufacturing, LLC	
Street	P.O. Box 158	
City, S	Alloy, WV 25002	
PS Fo		Instructions

7017 1450 0002 3854 1075

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Alloy, WV 25002

**OFFICIAL USE**

Certified Mail Fee	\$3.55	0523
\$		01
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.40	
\$		
<b>Total</b>	<b>\$7.80</b>	01/12/2021
\$	12947	
Sent	Elkem Metals Company	
Street	RR 60 Box East	
City,	Alloy, WV 25002	
PS F		See Reverse for Instructions

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Office of Oil and Gas  
JAN 14 REC'D  
WV Department of  
Environmental Protection

04/02/2021

**SURFACE OWNER WAIVER**

4701900668P

Operator's Well  
Number

PKE 775 (47-035-01646)

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

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

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

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

RECEIVED  
Office of Oil and Gas

JAN 1 4 P M '21

**Time Limits and methods for filing comments.** The law requires these materials to be served on you 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,

David L. Wash Date 1-11-21 Name \_\_\_\_\_  
Signature By \_\_\_\_\_  
Its \_\_\_\_\_

Signature

Date

04/02/2021

4701900668P

WW-9  
(5/16)

API Number 47 019 - 00668  
Operator's Well No. 12947

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

Operator Name Alliance Petroleum Company, LLC OP Code 494506333

Watershed (HUC 10) Kanawha River Quadrangle Montgomery

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: Plugging returns/cement - will utilize above ground tanks

Will a synthetic liner be used in the pit? Yes  No  If so, what ml? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Any fluid recovered will be hauled to a Diversified tank battery and disposed of properly.)

Will closed loop system be used? If so, describe: \_\_\_\_\_

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

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

Additives to be used in drilling medium? \_\_\_\_\_

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

-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 \_\_\_\_\_

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 11th day of January, 20 21

Phyllis A. Copley Notary Public

My commission expires: September 16, 2023

04/02/2021

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount \_\_\_\_\_ 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: \_\_\_\_\_



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

Title: Inspector

Date: 1/14/21

Field Reviewed? ( ) Yes ( ) No

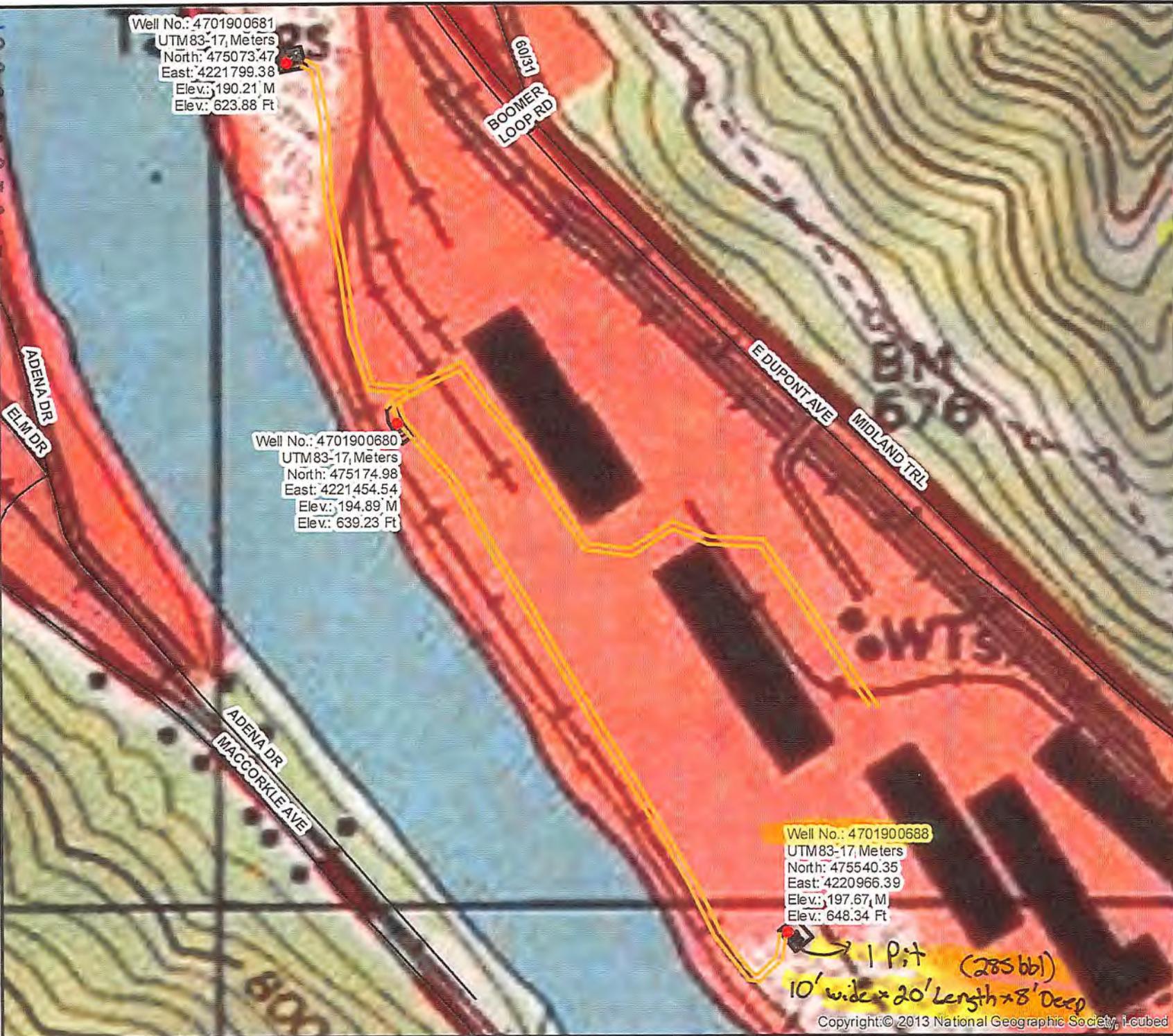
47019006688

Well No.: 4701900681  
UTM83-17, Meters  
North: 475073.47  
East: 4221799.38  
Elev.: 190.21' M  
Elev.: 623.88 Ft

Well No.: 4701900680  
UTM83-17, Meters  
North: 475174.98  
East: 4221454.54  
Elev.: 194.89' M  
Elev.: 639.23 Ft

Well No.: 4701900688  
UTM83-17, Meters  
North: 475540.35  
East: 4220966.39  
Elev.: 197.67' M  
Elev.: 648.34 Ft

1 Pit (285 bbl)  
10' wide x 20' Length x 8' Deep



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

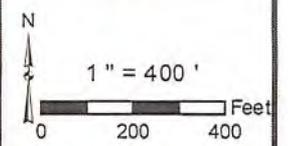
47-019-00688, 47-019-00681,  
47-019-00680

Plugging Map

47-019-00688

### Legend

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



WW-7  
8-30-06



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

API: 47-019-00668 WELL NO.: 12947

FARM NAME: Elkem Metals Company

RESPONSIBLE PARTY NAME: Alliance Petroleum Co., LLC

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Montgomery

SURFACE OWNER: WVA Manufacturing LLC

ROYALTY OWNER: Elkem Metals Co.

UTM GPS NORTHING: 4,220,966.39

UTM GPS EASTING: 475,540.35 GPS ELEVATION: 648

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]  
Signature

Director Production  
Title

1/11/2021  
Date

RECEIVED  
Office of Oil and Gas

JAN 14 REC'D

WV Department of  
Environmental Protection