



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

Wednesday, May 4, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for KEM-237
47-035-01738-00-00

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.

A blue ink signature of James A. Marin, Chief.

James A. Marin
Chief

Operator's Well Number: KEM-237
Farm Name: HUTCHINSON, ELINORE S.
U.S. WELL NUMBER: 47-035-01738-00-00
Vertical Plugging
Date Issued: 5/4/2022

Promoting a healthy environment.

05/06/2022

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.

4703501738P

1) Date March 4, 2022
2) Operator's
Well No. KEM 237
3) API Well No. 47-035 - 01738

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 880.83 feet Watershed Right Fork of Sandy Creek
District Ravenswood County Jackson Quadrangle Liverpool

6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast
Address 414 Summers Street Address 31 Hickory Drive
Charleston, WV 25301 Barboursville, WV 25504

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Joe Taylor Name Diversified Production, LLC (In-house rig)
Address 1478 Claylick Road Address 1951 Pleasantview Ridge Road
Ripley, WV 25271 Ravenswood, WV 26164

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

See Attached

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Office of Oil and Gas
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WV Department of
Environmental Protection

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

Work order approved by inspector  Date 3-11-22

05/06/2022

Plugging Prognosis

API #: 4703501738

West Virginia, Jackson County

Lat/Long: 38.89581465, -81.57823682

Nearest ER: Jackson General Hospital, 122 Pinnell St, Ripley, WV 25271

Casing Schedule

13-10" @ 252' (Cemented to surface w/ 150 sx)

7" @ 2,442' (Cemented to 754' w/ 165 sx)

4-1/2" @ 4,764' (Cemented to 1,983' w/ 200 sx)

TD @ 4,764'

Completion: Perforated the Devonian Brown Shale from 4,196'-4,480' and Berea Sandstone from 2,551'-2,556'

Fresh Water: not listed

Salt Water: not listed

Gas Shows: 2,544'; 3,313'; 4,087'

Oil Shows: 2,544'

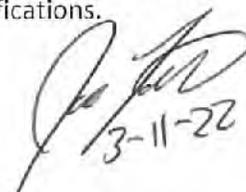
Coal: No shows

Elevation: 872'

1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. TIH w/ tbg to 3,984'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 493' C1A cement plug from 4,480' to 3,987' (**Dev. Brown Shale completion and Brown Shale Gas show**). Tag TOC. Top of as needed.
5. TOOH w/ tbg to 3,987'. Pump 6% bentonite gel from 3,987' to 3,313'.
6. TOOH w/ tbg to 3,313'. Pump 100' C1A cement from 3,313' to 3,213' (**Gas Show plug**)
7. TOOH w/ tbg to 3,213'. Pump 6% bentonite gel from 3,213' to 2,556'.
8. TOOH w/ tbg to 2,556'. Pump 164' C1A cement from 2,556' to 2,392' (**Berea Sandstone completion, gas show and 7" csg shoe**).
9. TOOH w/ tbg to 2,392'. Pump 6% bentonite gel from 2,392' to 872'.
10. Free point 4-1/2" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut.
Do not omit any plugs list below. Perforate as needed.
11. TOOH w/ tbg to 872'. Pump 100' C1A cement plug from 872' to 772' (**elevation plug**).
12. TOOH w/ tbg to 772'. Pump 6% bentonite gel from 772' to 302'.
13. Free point 7" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs list below. Perforate as needed.**
14. TOOH w/ tbg to 302'. Pump 100' C1A cement plug from 302'- 202' (**conductor shoe plug**).
15. TOOH w/ tbg to 202'. Pump 6% bentonite gel from 202' to 100'.
16. TOOH w/ tbg to 100'. Pump 100 C1A cement plug from 100'- surface' (**Surface plug**).
17. Reclaim well site and erect plugging monument to WV DEP specifications.

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IV-35
(Rev 8-81)

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FEB 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date November 29, 1982
Operator's
Well No. KEM #237
Farm Elinore S. Hutchinson
API No. 47 - 035 - 1738

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 872' Watershed Right Fork Sandy Creek
District: Ravenswood County Jackson Quadrangle Liverpool

COMPANY Kaiser Exploration and Mining Company

ADDRESS P. O. Box 8, Ravenswood, WV 26164

DESIGNATED AGENT R. A. Pryce

ADDRESS P. O. Box 8, Ravenswood, WV 26164

SURFACE OWNER Elinore S. Hutchinson et al

ADDRESS Meadowdale Farm, Sandyville, WV

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Rt. 1, Box 5, Sandridge, WV

PERMIT ISSUED 7/19/82

DRILLING COMMENCED 10/25/82

DRILLING COMPLETED 11/01/82

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"		252'	150 sks
9 5/8			
8 5/8			
7		2442'	165 sks
5 1/2			
4 1/2		4764'	200 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4766 feet

Depth of completed well 4766 feet Rotary X / Cable Tools --

Water strata depth: Fresh -- feet; Salt -- feet

Coal seam depths: -- Is coal being mined in the area? No

OPEN FLOW DATA (Note: Shale is temporarily plugged)

Producing formation Devonian Brown Shale Pay zone depth 4196 feet

Gas: Initial open flow 25 Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 83 Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests -- hours

Static rock pressure -- psig (surface measurement) after -- hours shut in
(If applicable due to multiple completion--)

Second producing formation Berea Sandstone Pay zone depth 2551 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 50 Mcf/d Oil: Final open flow 40 Bbl/d

Time of open flow between initial and final tests -- hours

Static rock pressure 500 psig (surface measurement) after -- hours shut in

(Continue on reverse side)

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

11/9/82: Devonian Brown Shale perforated from 4196-4480', shot selectively with 25 holes, 0.39" diameter.

Foam fractured with 60,000# 20/40 sand, 923 MSCF of nitrogen, approximately 300 bbl water at 2800 psig; 1050 psig ISIP. Shale temporarily plugged.

11/11/82: Berea sandstone perforated from 2551-2556', 16 holes, .41" diameter.

11/16/82: Berea fractured with 30# gel, 15,000# 80/100 sand, 65,000# 20/40 sand, 813 bbl water; 279 MSCF of nitrogen at 1400 psig, ISIP: 1200 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandstone and Shale			0	674	
Sandstone			674	758	
Sandstone and Shale			758	1275	
Sandstone			1275	1370	
Sandstone & Shale			1370	1624	
Sandstone			1624	1732	
Shale & Siltstone			1732	1873	
Limestone			1873	2095	
Sandstone			2095	2176	
Shale			2176	2528	
Coffee Shale			2528	2544	
Berea Sandstone			2544	2551	S/g & s/o @ 2544'
Shale			2551	3815	S/g @ 3313'
Brown Shale			3815	4463	S/g @ 4087'
Shale			4463	4804 T.D.	

(Attach separate sheets as necessary)

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KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: E.A.P.

Date: November 29, 1982

WV Department of
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Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

05/06/2022

WW-4A
Revised 6-07

1) Date: March 4, 2022
2) Operator's Well Number: KEM 237
3) API Well No.: 47 - 035 - 01738

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

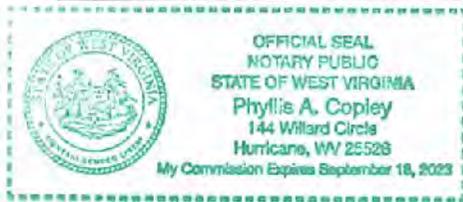
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pamela Ghasin</u>	Name <u>None</u>
Address <u>4216 Pacific Coast Highway #1561</u>	Address _____
<u>Torrence, California 90505</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>No Declaration</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>304-380-7469</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: [Signature] Jeff Mast
 Its: Director Technical Services
 Address: 414 Summers Street
Charleston, WV 25301
 Telephone: 304-543-8988

Subscribed and sworn before me this 7th day of March, 2022
Phyllis A. Copley Notary Public
 My Commission Expires September 18, 2023

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MAR 10 2022

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 depprivacyofficer@wv.gov.

05/06/2022

4703501738P

KEM 237
47-035-01738

7020 2450 0001 5225 2829

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Torrance, CA 90505

OFFICIAL USE

Certified Mail Fee	\$3.75	0510
	\$3.05	2
Extra Services & Fees (check box, add fee, as appropriate)		
<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	\$1.76	
Total Paid	\$9.56	
Sent To	KEM 287 and KEM 237	
Street	Pamelia Ghastin	
City, State	4216 Pacific Coast Highway #1561	
	Torrance, California 90505	

Postmark Here: 03/08/2022

USPS 25510 03/08/2022

PS Form 3800, October 2019

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4703501738P

WW-9
(5/16)

API Number 47 - 035 - 01738
Operator's Well No. KEM 237

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) Right Fork of Sandy Creek Quadrangle Liverpool

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: Produced 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 WC Booker #1 47-039-02327 Permit UIC2D0392327 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.

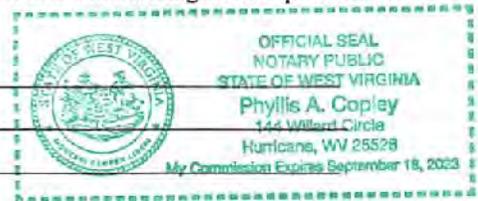
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 _____

Company Official (Typed Name) Jeff Mast

Company Official Title Director Technical Services



Subscribed and sworn before me this 7th day of March, 2022

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

05/06/2022

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

Lime 3 Tons/acre or to correct to pH 605

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: [Signature]
Comments: _____

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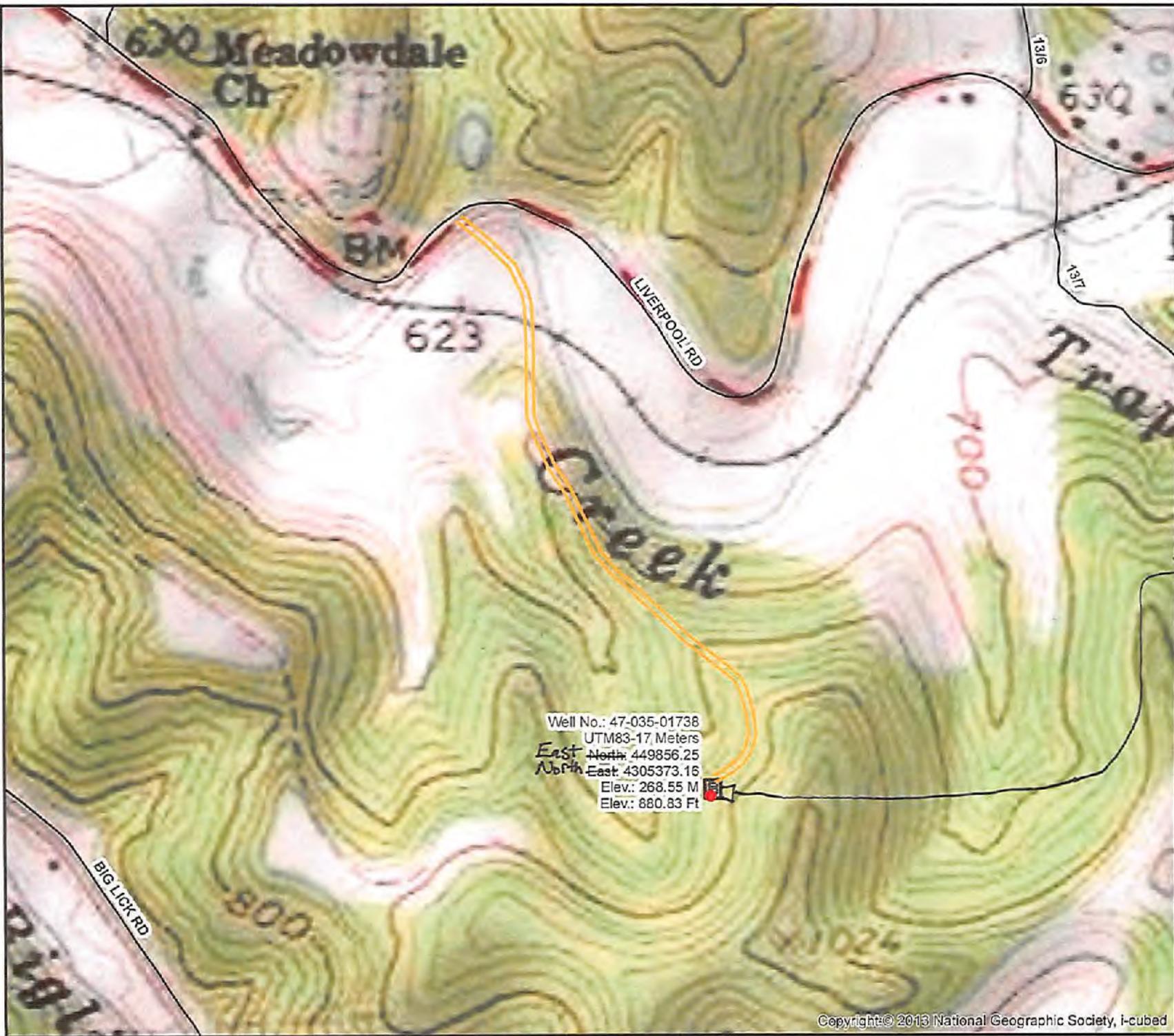
WV Department of
Environmental Protection

Title: 006 Inspection

Date: 3-11-22

Field Reviewed? Yes No

47-035-01738 P



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

47-035-01738

Plugging Map

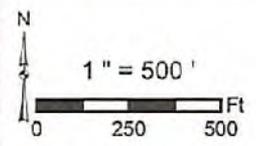
Legend

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

1 Pit
10' W
20' L
8' O

285 bbl

Well No.: 47-035-01738
 UTM83-17, Meters
 East North 449856.25
 North East 4305373.16
 Elev.: 268.55 M
 Elev.: 880.83 Ft



4703501738

4703501738A

WW-7
8-30-06



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

API: 47-035-01738 WELL NO.: KEM 237

FARM NAME: Elinore S. Hutchinson

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Jackson DISTRICT: Ravenswood

QUADRANGLE: Liverpool

SURFACE OWNER: Pamela Ghastin

ROYALTY OWNER: DP Bluegrass LLC

UTM GPS NORTHING: 449856.25

UTM GPS EASTING: 4305373.16 GPS ELEVATION: 880.83

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

Digitally signed by Austin Sutler
Date: 2022.02.23 14:05:57
-05'00'

Sr. Proj. Manager
Title

2/23/22
Date

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Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permit (API: 47-035-01738, 01780, 02506)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, May 4, 2022 at 11:09 AM

To: "Mast, Jeff" <jmast@dgoc.com>, Phyllis Copley <pcopley@dgoc.com>, Brian Thomas <bkthomas@jacksoncountywv.com>, beth.roberts@jacksoncountywv.com, "Taylor, Joseph D" <joseph.d.taylor@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-035-01738 - KEM-237**47-035-01780 - KEM-287****47-035-02506 - PKN 903**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

4 attachments **47-035-01780 - Copy.pdf**
788K **47-035-01738 - Copy.pdf**
850K **IR-8 Blank.pdf**
237K **47-035-02506 - Copy.pdf**
946K**05/06/2022**