



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-287
47-035-01780-00-00

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: KEM-287
Farm Name: HUTCHINSON, E., ETAL
U.S. WELL NUMBER: 47-035-01780-00-00
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.

1) Date March 4, 2022
2) Operator's
Well No. KEM 287
3) API Well No. 47-035 - 01780

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 963.77 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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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

4703501780P

Plugging Prognosis

API #: 4703501780

West Virginia, Jackson County

Lat/Long: 38.89445045, -81.58107577

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

Casing Schedule

10 ¾" @ 262' (Cemented to surface w/ 150 sx)

4 ½" @ 2,670' (Cemented to surface w/ 300 sx)

2" tbg @ 2,675'

TD 2,670'

Completion: Perforated the Berea Sand from 2,635'-2,641' using 18 holes.

Fresh Water: not listed

Salt Water: not listed

Gas Shows: 2,634'-2,641'

Oil Shows: No shows

Coal: None

Elevation: 963'

1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Pull and lay down 2" tbg.
4. Check TD w/ wireline.
5. TIH w/ tbg to 2,641'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 106' C1A cement plug from 2,641' to 2,535' (Berea Sand completion and Gas show). Tag TOC. Top of as needed.
6. TOOH w/ tbg to 2,535'. Pump 6% bentonite gel from 2,535' to 963'.
7. TOOH w/ tbg to 963'. Pump 100' C1A cement plug from 963' to 863' (elevation plug).
8. TOOH w/ tbg to 863'. Pump 6% bentonite gel from 863' to 312'.
9. TOOH w/ tbg to 312'. Pump 100' C1A cement plug from 312' to 212' (10 ¾" csg shoe).
10. TOOH w/ tbg to 212'. Pump 6% bentonite gel from 212' to 100'.
11. TOOH w/ tbg to 100'. Pump 100 C1A cement plug from 100'- surface' (Surface plug).
12. Reclaim well site and erect plugging monument to WV DEP specifications.

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3-11-22

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IV-35 RECEIVED (Rev 8)

FEB 8 - 1983

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date January 28, 1983 Operator's Well No. KEM #287 Farm Hutchinson API No. 47 - 035 - 1780

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 963' Watershed Right Fork of 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 Elmore S. Hutchinson, et al

ADDRESS Sandyville, WV

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty

ADDRESS Linden Rt., Box 3A, Looneyville, WV

PERMIT ISSUED 11/12/82

DRILLING COMMENCED 12/7/82

DRILLING COMPLETED 12/12/82

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

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include tubing sizes 20-16 Cond., 10 3/4" 12x10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used (None).

GEOLOGICAL TARGET FORMATION Berea Sandstone Depth 2634 feet

Depth of completed well 2701 feet Rotary x / Cable Tools

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

Coal seam depths: None Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Berea Sandstone Pay zone depth 2635-2641 feet

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

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

Time of open flow between initial and final tests N/A hours

Static rock pressure 550 psig (surface measurement) after 3 hours shut in (If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

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

Final open flow Mcf/d Oil: 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

(Continue on reverse side)

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JACK, 1780

05/06/2022

Handwritten initials

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

- 12/16/82: Young's Wireline Service perforated Berea Sandstone from 2635-2641'(KB), 18 holes, .39" diameter.
- 12/21/82: B.J. Hughes hydrofractured zone (30 lb. gel system) w/15,000# 80/100 sand; 65,000# 20/40 sand; 500 gal 15% HCL acid; 125,000 SCF nitrogen; 730 bbl water.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas	
Soil and Shale			0	86	*All depths from electric log	
Siltstone & Shale			86	310		
Sand			310	338		
Siltstone & Shale			338	557		
Sand			557	590		
Shale			590	604		
Sand			604	626		
Siltstone & Shale			626	702		
Sand			702	856		
Shale			856	1128		
Siltstone & Shale			1128	1363		
Sand			1363	1460		
Siltstone & Shale			1460	1616		
Sand			1616	1650		
Shale			1650	1706		
Sand			1706	1830		
Shale			1830	1950		
Sand Sands			1950	2120		
Big Lime (Greenbrier)			2120	2180		
Shale			2180	2203		
Big Injun Sand			2203	2264		
Shale			2264	2618		
Coffee Shale (Sunbury)			2618	2634		
Berea Sand			2634	2641		Show/oil, gas
Shale			2641	2688		
Total Depth			2688			

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(Attach separate sheets as necessary)

Kaiser Exploration and Mining Company
Well Operator

By: K.A.P.
Date: January 31, 1983

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 all, encountered in the drilling of a well."

05/06/2022

4703501780P

WW-4A
Revised 6-07

1) Date: March 4, 2022
2) Operator's Well Number
KEM 287
3) API Well No.: 47 - 035 - 01780

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

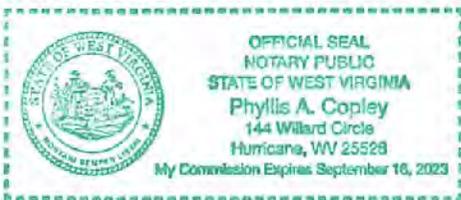
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pamela Ghaslin</u>	Name <u>None</u>
Address <u>4216 Pacific Coast Highway #1561</u>	Address _____
<u>Torrence, California 90505</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
_____	Address _____
(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: Jeff Mast RECEIVED
 Its: Director Technical Services Office of Oil and Gas
 Address: 414 Summers Street MAR 10 2022
Charleston, WV 25301
 Telephone: 304-543-6988 WV Department of Environmental Protection

Subscribed and sworn before me this 7th day of March 2022
Phyllis A. Copley Notary Public
 My Commission Expires September 16, 2023

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

4703501780P
KEM 287
47-035-01780P

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 ®.	
Torrence, CA 90505	
OFFICIAL USE	
Certified Mail Fee	\$3.75
Postage	\$1.76
Total Paid	\$5.51
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
Postmark Here	
MAR 08 2022	
CULLODEN WV 0510 2	
USPS-25510-9000 03/08/2022	
Sent To: Pamela Ghastin	
Street Address: 4216 Pacific Coast Highway #1561	
City, State: Torrence, California 90505	
PS Form 3849	Instructions

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4703501780A

WW-9
(5/16)

API Number 47 - 035 - 01780
Operator's Well No. KEM 287

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 [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

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WV Department of Environmental Protection

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

Lime 3 Tons/acre or to correct to pH 6.05

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.

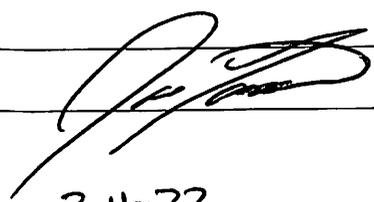
Plan Approved by: Joe Taylor

Comments: _____

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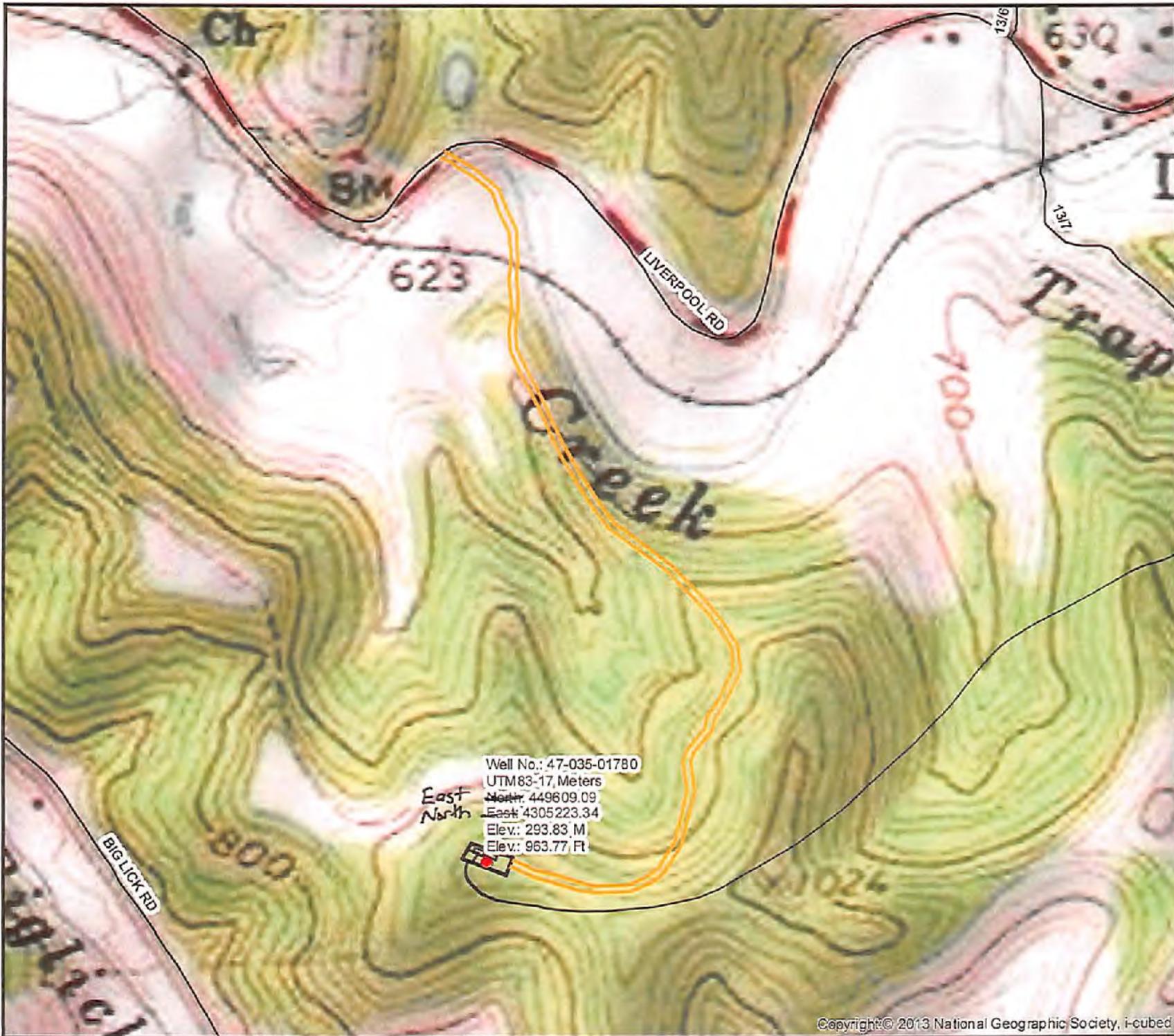
WV Department of
Environmental Protection



Title: 006 Inspector

Date: 3-11-22

Field Reviewed? Yes No



Well No.: 47-035-01780
 UTM83-17, Meters
 North: 449609.09
 East: 4305223.34
 Elev.: 293.83 M
 Elev.: 963.77 Ft



DIVERSIFIED
 energy

100 Diversified Way
 Pikeville KY, 41051

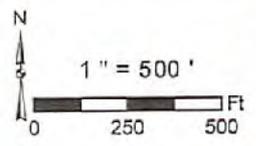
47-035-01780

Plugging Map

Legend

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

→ 1 Pit
 10' W
 20' L
 8' D
 285 lb



4703501780P

WW-7
8-30-06



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

API: 47-035-01780 WELL NO.: KEM-287

FARM NAME: E Hutchinson Etal

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Jackson DISTRICT: Ravenswood

QUADRANGLE: Liverpool

SURFACE OWNER: Pamela Ghastin

ROYALTY OWNER: DP Bluegrass LLC

UTM GPS NORTHING: 4305223.34

UTM GPS EASTING: 449609.09 GPS ELEVATION: 963.77

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

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

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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.

Austin Suttler
Digitally signed by Austin Suttler
Date: 2022.02.25 15:19:46 -05'00'
Signature

Sr. Proj. Manager
Title

2/25/2022
Date



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 <bktomas@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**