



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

Tuesday, May 3, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for 53
47-035-01433-00-00

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 printed name and title.

Operator's Well Number: 53
Farm Name: ARMSTRONG, JAMES F.
U.S. WELL NUMBER: 47-035-01433-00-00
Vertical Plugging
Date Issued: 5/3/2022

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. DEK 53
3) API Well No. 47-035 - 01433

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 1022.18 feet Watershed Left Fork Mud Run
District Ripley County Jackson Quadrangle Cottageville

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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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

Plugging Prognosis

API #: 4703501433

West Virginia, Jackson County

Lat/Long: 38.86595274 -81.75966056

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

Casing Schedule

9 5/8" @ 251' (Cemented to surface w/ 100sx)

7" @ 2,436' (Cemented to 1,592' w/ 75 sx)

4 1/2" @ 4,862' (Cemented to 2,776' w/ 150 sx)

2" @ 4,788'

TD @ 4,862'

Completion: Producing Sand: Oriskany Sand from 4,751' to 4,800'

Fresh Water: None listed

Salt Water: None listed

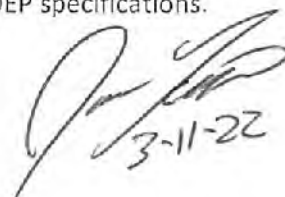
Gas Shows: None listed

Oil Shows: None listed

Coal: None listed

Elevation: 851'

1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Pull tbg and lay down.
4. Check TD w/ wireline.
5. TIH w/ tbg to 4,800'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 149' C1A cement plug from **4,800' to 4,651' (Oriskany Gas show)**. Tag TOC. Top of as needed.
6. TOOH w/ tbg to 4,751'. Pump 6% bentonite gel from 4,751' to 2,486'.
7. 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.
8. TOOH w/ tbg to 2,486'. Pump 100' C1A cement from **2,486' to 2,386' (7" csg shoe plug)**.
9. TOOH w/ tbg to 2,386. Pump 6% bentonite gel from 2,386' to 851'.
10. Free point ~~4-1/2"~~^{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.
11. TOOH w/ tbg to 851'. Pump 100' C1A cement plug from **851' to 751' (elevation plug)**.
12. TOOH w/ tbg to 751'. Pump 6% bentonite gel from 751' - 301'.
13. TOOH w/ tbg to 301'. Pump 100' C1A cement plug from **301'- 201' (9 5/8" csg shoe)**.
14. TOOH w/ tbg to 201'. Pump 6% bentonite gel from 201'- 100'
15. TOOH w/ tbg to 100'. Pump 100 C1A cement plug from **100'- surface' (Surface plug)**.
16. Reclaim well site and erect plugging monument to WV DEP specifications.


3-11-22

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

4703501433A

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DEC - 6 1978

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil
Cable Gas
Recycling Comb.
Water Flood Storage
Disposal (Kind)

Quadrangle Cottageville

Permit No. JAC - 1433

(47-035-1433)

Company <u>Kaiser Exploration & Mining Co.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>PO Box 537, Ripley, WV</u>	Size			
Farm <u>James F. Armstrong</u> Acres <u>180</u>	20-16			
Location (waters) <u>Left Fork Mud Run</u>	Cond.			
Well No. <u>DEK 53</u> Elev <u>851.05</u>	13-10"			
District <u>Ripley</u> County <u>Jackson</u>	9 5/8	251	251	100 Sacks
The surface of tract is owned in fee by <u>James F. Armstrong & Erik Armstrong</u>	8 5/8			
Address <u>4077 Raymond Dr. Brunswick, OH</u>	7	2436	2436	75 Sacks
Mineral rights are owned by <u>Same</u>	5 1/2			
Address _____	4 1/2	4862	4862	150 Sacks
Drilling Commenced <u>May 8, 1978</u>	3			
Drilling Completed <u>May 16, 1978</u>	2		4788	
Initial open flow <u>Show</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>498,000</u> cu. ft. per day _____ bbls.				
Well open <u>11</u> hrs. before test <u>1470</u> RP. 72 Hr.				

Well treatment details: Attach copy of cementing record. Halliburton
Treated Oriskany Sand with 850 BBL of treated water, 15,000 lbs of 80/100 sand, 30,000 lbs of 20/40 sand and 135,000 SCF of nitrogen. Formation broke down at 2500 psi, treated at an average rate of 12.7 BPM at 4100 psi.

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sand Depth 4751-4800

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	246		
Red Rock & Shale			246	318		
Sand			318	356		
Red Rock & Shale			356	499		
Broken Sand			499	540		
Shale			540	590		
Sand			590	634		
Shale & Red Rock			634	706		
Broken Sand			706	756		
Red Rock & Shale			756	1116		
Sand			1116	1178		
Shale			1178	1229		
Sand			1229	1254		
Shale			1254	1346		
Sand			1346	1425		
Slate & Shells			1425	1528		
Sand			1528	1555		
Broken Sand			1555	1575		
Shale			1575	1673		
Broken Sands			1673	1764		
Sand			1764	1809		
Shale			1809	1816		
Sand			1816	1832		
Big Lime			1832	1924		

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(over)
* Indicates Electric Log tops in the remarks section.

4703501433P

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1924	1945		
Injun Sand			1945	2082		
Shale			2082	2402		
Coffee Shale			2402	2426		
Berea Sand			2426	2429		
Shale			2429	3602		
Brown Shale			3602	4093		
Shale			4093	4532		
Marcellus Shale			4532	4674		
Onondaga L. S.			4674	4751		
Oriskany Sand			4751	4800		
Heiderberg L. S.			4800	4879		
Total Depth			4879'			

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MAR 14 2022

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November 14 1978
Date December 1 1978

APPROVED Kaiser Exploration and Mining Co. Owner

By *Keith A. P...*
(Title)
Operations Manager

05/06/2022

WW-4A
Revised 6-07

1) Date: March 4, 2022
2) Operator's Well Number
DEK 53
3) API Well No.: 47 - 035 - 01433

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>Linda Armstrong</u>	Name <u>None</u>
Address <u>1595 Locust Ridge Road</u>	Address _____
<u>Ripley, WV 25271</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 reverse 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 304-543-6986

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Office of Oil and Gas

MAR 10 2022

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.

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7020 3160 0000 1694 9961

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

For delivery information, visit our website at www.usps.com.
Ripley, WV 25271

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	\$1.56	
\$	\$8.36	
Total Pos	\$8.36	
\$	DEK 53	
Send To	Linda Armstrong	
Street an	1595 Locust Ridge Road	
City, Sta	Ripley, WV 25271	
PS Form		ctions



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05/06/2022

4703501433P

WW-9
(5/16)

API Number 47 - 035 - 01433
Operator's Well No. DEK 53

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) Left Run Mud Run Quadrangle Cottageville

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)
- Undergound 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.

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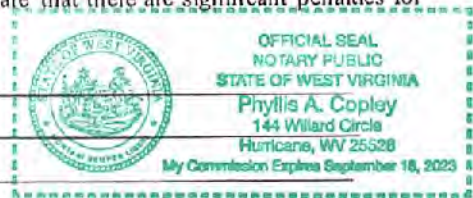
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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.

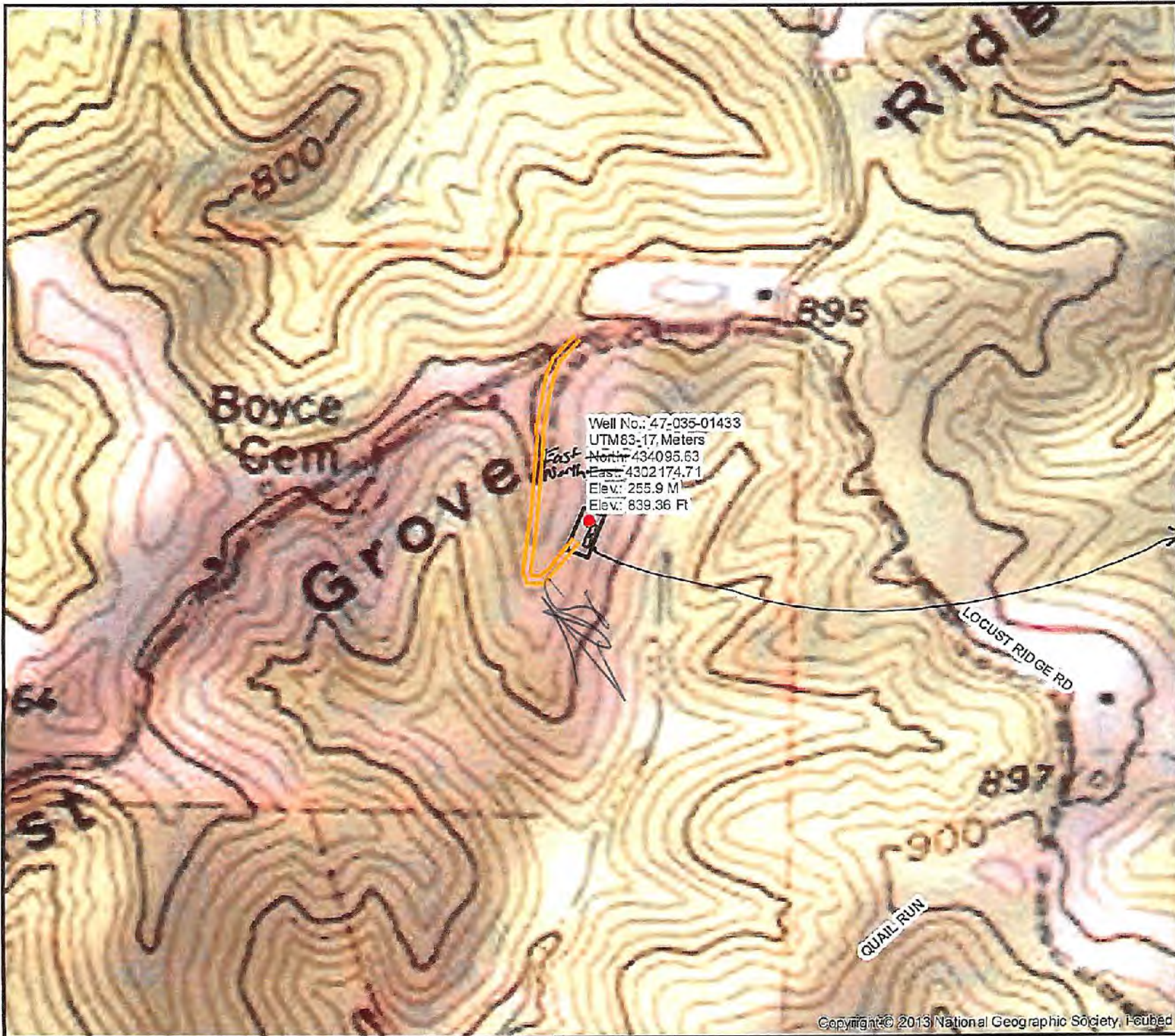
Plan Approved by: See Topk

Comments: _____

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Title: 006 Injedy Date: 3-11-22

Field Reviewed? Yes No



Well No.: 47-035-01433
 UTM83-17, Meters
 North: 434095.63
 East: 4302174.71
 Elev.: 255.9 M
 Elev.: 839.36 Ft



DIVERSIFIED
 energy
 100 Diversified Way
 Pikeville KY, 41051

47-035-01433

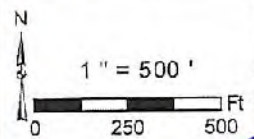
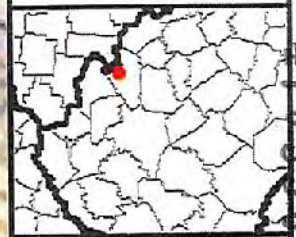
Plugging Map

Legend

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

1 Pit
 10' W
 20' L
 8' D

 285 bbl



4703501433

WW-7
8-30-06



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

API: 47-035-01433 WELL NO.: DEK 53

FARM NAME: James F Armstrong

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Jackson DISTRICT: Ripley

QUADRANGLE: Cottageville

SURFACE OWNER: Linda Armstrong

ROYALTY OWNER: DP Bluegrass LLC

UTM GPS NORTHING: ~~4284034.08~~ 4302174.7 840'

UTM GPS EASTING: ~~434272.57~~ 434095.6 GPS ELEVATION: ~~1022.18~~

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.

Digitally signed by Austin Suter
Date: 2022.02.25 12:11:39
-05'00'

Sr. Proj. Manager

02/25/2022

Signature

Title

Date

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

Plugging Vertical Well Work Permit (API: 47-035-01408 & 47-035-01433)

1 message

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

Tue, May 3, 2022 at 9:30 AM

To: "Mast, Jeff" <jmast@dgo.com>, "Taylor, Joseph D" <joseph.d.taylor@wv.gov>

Cc: Brian Thomas <bkthomas@jacksoncountywv.com>, Aimee Duncan <aduncan@wvassessor.com>



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

47-035-01408 - DEK 39**47-035-01433 - 53**

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**

3 attachments **IR-8 Blank.pdf**
233K **47-035-01408 - Copy.pdf**
896K **47-035-01433 - Copy.pdf**
903K**05/06/2022**