



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 25, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for J. K. LILLY 1
47-055-00208-00-00

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: J. K. LILLY 1
Farm Name: LILLY, JOSEPH KENT
U.S. WELL NUMBER: 47-055-00208-00-00
Vertical Plugging
Date Issued: 5/25/2021

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. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

4705500208P

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) Depth : 2545 Ft Watershed Wolf Creek
Rock County Mercer Quadrangle Matoaka

6) Operator: Diversified Production, LLC 7) Designated Agent: Jeff Mast
P.O. Box 6070 Address P.O. Box 6070
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified Name Gary Kennedy
Address 66 Old Church Lane
Pipestem, WV 25979
9) Plugging Contractor Name Diversified Production, LLC (In House Rig)
Address 1951 Pleasant View Ridge Road
Ravenwood, WV 26164

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

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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 *Gary Kennedy* Date *5/14/21*

4705500208P

PLUGGING PROGNOSIS

API# 47-055-00208

West Virginia, Mercer County

37.4877806530954, -81.1353675479663

Nearest ER: Princeton Community Hospital: 122 12th ST Princeton, WV 24740

Casing Schedule

12 3/4" csg @ 22'

7" csg @ 925' cemented to surface w/ 140 sks

4 1/2" csg @ 4421' est TOC 1120' w/ 265 sks

TD 4453'

Completion: Frac

Weir 3845'-4206'

Big Lime 2907'-2911'

Lower Maxon 2328'-2332'

Fresh Water: None recorded

Gas Shows: 2328', 2907', 3845'

Oil Show: No shows

Coal: None recorded

Elevation: 2572'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.
2. Check and record pressures on csg.
3. Check TD w/ wireline.
4. TIH w/ tbg to 4206'. Kill well as needed with 6% bentonite gel. Pump 461' C1A cement plug from 4206'-3745' (Weir gas show). Tag TOC. Top off as needed.
5. TOOH w/ tbg to 3745'. Pump 6% bentonite gel from 3745'-2911'.
6. TOOH w/ tbg to 2911'. Pump 104' C1A cement plug from 2911'-2807' (Lime gas show).
7. TOOH w/ tbg to 2807'. Pump 6% bentonite gel from 2807'-2572'.
8. TOOH w/ tbg to 2572'. Pump 100' C1A cement plug from 2572'-2472' (Elevation.)
9. TOOH w/ tbg to 2472'. Pump 6% bentonite gel from 2472'-2332'.
10. TOOH w/ tbg to 2332'. Pump 104' C1A cement plug from 2332'-2228' (Maxon gas show).
11. TOOH w/ tbg to 2228'. Pump 6% bentonite gel from 2228'-975'. TOOH LD tbg.
12. Free point 4 1/2" csg. Cut and TCOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
13. TIH w/ tbg to 975'. Pump 100' C1A cement plug from 975'-875' (7" csg st).
14. TOOH w/ tbg to 875'. Pump 6% bentonite gel from 875'-100'.
15. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-0' (Surface). TOOH LD tbg.
16. Erect monument with API#, date plugged, and company name.
17. Reclaim location and road to WV DEP specifications.

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05/28/2021

4705500208P

Well: 11842
API: 47-055-00208

WR-**RECEIVED**
Office of Oil & Gas
Permitting
MAR 14 2000
WV Division of
Environmental Protection

26-Aug-99
API # 47- 55-00208

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Reviewed: AS

Operator Well No.: J. K. LILLY 1
Operator: JOSEPH KENT

LOCATION: Elevation: 2,571.94 Quadrangle: MATOAKA

District: ROCK County: MERCER
Latitude: 4495 Feet South of 37 Deg. 30Min. 0 Sec:
Longitude 3075 Feet West of 81 Deg. 7 Min. 30 Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. BOX 1248
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON
Permit Issued: 08/26/99
Well work Commenced: 9/24/99
Well work Completed: 10/25/99
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 4453'
Fresh water depths (ft) None Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4"	22'		
7"	925'	925'	140 sacks
4 1/2"	4421'	4421'	265 sacks

CTS
TOC ~ 1350'

Salt water depths (ft) None Reported

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

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 3815-4206'

Gas: Initial open flow 1425 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 410 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 560 psig (surface pressure) after _____ Hours

Second producing formation Big Lime/L Maxto Pay zone depth (ft) 2907-2911'
 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
 Final open flow * MCF/d Final open flow * Bbl/d
 Time of open flow between initial and final tests * Hours
 Static rock Pressure * psig (surface pressure) after * Hours

* Commingled
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: Larry J. Cavallo
DOMINION APPALACHIAN DEVELOPMENT, INC.
By: Larry J. Cavallo, Manager of Engineering
Date: 3/12/00

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MER 0208

05/28/2021

47055100208P

Well: 11842

API: 47-055-00208

3	STAGE(S)	75Q & HCl	FRAC	DATE 12-13-99		
WELLS	PERFS		HOLES	BBL	BP	ISIP
Weir	3845-4206'		16	100 foam	1665	639 psi
Big Lime	2907-2911'		10	48 28%	1870	1690 psi
Lower Maxton	2328-2332'		19	98 foam	2420	1101 psi

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
verburden			0	5	
ndy Shale			5	50	
ndstone			50	140	
ndy Shale			140	230	
ndstone			230	250	
ndy Shale			250	690	
ndstone			690	750	
ndy Shale			750	770	
ndstone			770	850	
nd Shale			850	920	
ndy Shale			920	980	
ndstone			980	1030	
ndy Shale			1030	1065	
ndstone			1065	1700	
ndy Shale			1700	1825	
ndstone, U. Maxton			1825	1915	
ndy Shale			1915	2090	
Maxton			2090	2160	
ndy Shale			2160	2260	
Maxton			2260	2330	
ndy Shale			2330	2410	
Lime			2410	3850	
cono			3850	3950	
ndy Shale			3950	4120	
ir			4120	4200	
ale			4200	4453'	
			TD	4453'	

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05/28/2021

WW-4A
Revised 6-07

1) Date: February 4, 2021
2) Operator's Well Number: 11842
3) API Well No.: 47 - 055 - 00208

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

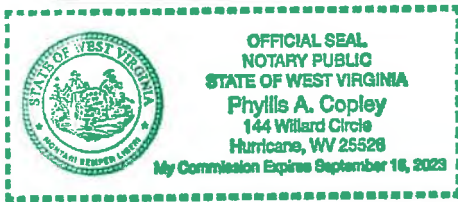
4) Surface Owner(s) to be served: (a) Name: Joseph and Pauline Lilly - C/O Joseph K. Lilly, Address: 2115 Stovall Ridge Road, Camp Creek, WV 25820. (b) Name: _____, Address: _____. (c) Name: _____, Address: _____. 5) (a) Coal Operator: Name: _____, Address: _____. (b) Coal Owner(s) with Declaration: Name: Joseph and Pauline Lilly, Address: 2115 Stovall Ridge Road, Camp Creek, WV 25820. (c) Coal Lessee with Declaration: Name: No Declaration, Address: _____. 6) Inspector: Gary Kennedy, Address: 66 Old Church Lane, Pipestem, WV 25979, Telephone: 304-382-8402.

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, Director Production
Its: P.O. Box 6070, Charleston, WV 25362
Address: 304-543-6988
Telephone: _____

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WV Department of Environmental Protection

Subscribed and sworn before me this 4th day of February, 2021
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.

4705500208A

Well 11842

API 47-055-00208

7017 1450 0002 3854 0993

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

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

Camp Creek, WV 25820

OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$7.85
<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
Total Postage and Fees	\$7.85

0523
03

Postmark
Here

02/04/2021

Sent To: Joseph & Pauline Lilly 11842
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4: Joe Joseph & Lilly, 2115 Stovall Ridge Rd
 Camp Creek, WV 25820

PS Form 3800, April 2015 PSN 7530 u2 009 9047 See Reverse for Instructions

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05/28/2021

WW-9
(5/16)

API Number 47 - 055 - 00208
Operator's Well No. 11842

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) Wolf Creek Quadrangle Matoaka

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: _____

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 2D0550319)
- 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: _____

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 [Signature]
Company Official (Typed Name) Jeff Mast
Company Official Title Director Production



Subscribed and sworn before me this 4th day of February, 2021
Phyllis A. Copley
Notary Public

My commission expires September 16, 2023

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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

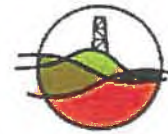
Date: 5/14/21

Field Reviewed? () Yes () No

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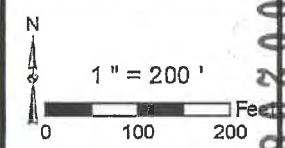
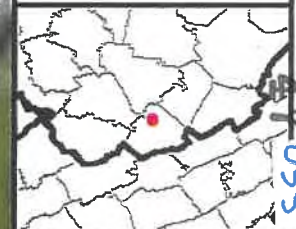
Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

LILLY 1 (470550200)

Plugging Map

Legend

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



00200

Well No.: Lilly 1 (470550200)
UTM83-17, Meters
North: 488025.3
East: 4148993.6
Elev.: 775.92 M
Elev.: 2545.01 Ft

1 Pit = 20' L x 10' w x 8' Deep
= 285 bbl



STOALL RIDGE RD

G E

Cem

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APR 05 002000

4705500208P

WW-7
8-30-06



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

API: 47-055-00208 WELL NO.: 11842

FARM NAME: J.K. Lilly

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Mercer DISTRICT: Rock

QUADRANGLE: Matoaka

SURFACE OWNER: Joseph and Pauline Lilly

ROYALTY OWNER: Joseph K. Lilly

UTM GPS NORTHING: 4,148,993.6

UTM GPS EASTING: 488,025.3 GPS ELEVATION: 2545'

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 ____

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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.

[Signature] Director Production 2/3/2021
Signature Title Date

05/28/2021