



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

Monday, September 16, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 1-E-79
47-033-03608-00-00

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, written in a cursive style.

Operator's Well Number: 1-E-79
Farm Name: COTTRILL, CHESTER W.
U.S. WELL NUMBER: 47-033-03608-00-00
Vertical Plugging
Date Issued: 9/16/2024

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. 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.

WW-4B
Rev. 2/01

1) Date July 31, 2024
2) Operator's
Well No. COTTRILL
3) API Well No. 47-033 - 03608

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) Location: Elevation 1104.65' Watershed Limestone Creek
District Coal-Outside County Harrison Quadrangle Clarksburg

6) Well Operator Diversified Production, LLC 7) Designated Agent Chris Veazey
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Kenny Willett
Address 2393 Tallmansville Rd.
Buckhannon, WV 26201
9) Plugging Contractor Name Next LVL Energy (Diversified Owned)
Address 104 Helliport Loop Rd
Bridgeport, WV 25330

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
AUG 29 2024
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 Ky Willett Date 8/20/24

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AUG 23 2024

WV Department of
Energy and Environment**Plugging Prognosis**

API #: 4703303608

West Virginia, Harrison County

Lat/Long: 39.289146, -80.372334

Nearest ER: United Hospital Center Emergency Room – 327 Medical Park Dr, Bridgeport, WV 26330

Casing Schedule

11-3/4" @ 20' – Assuming Driven

8-5/8" @ 1233' – CTS

4-1/2" @ 4521' – Cemented w/ 395 sks – ETOC @ 2491' using 7-7/8" Hole & 1.18 yield (must be lower than this because they squeezed from lower, do not have CBL that I'm sure they ran prior to squeezing)
TD @ 4580'**Workover**

Set bridge plug @ 3162'. Shot 4 squeeze perfs @ 2605'. Break circulation & pump 325 sks cement. Job Successful.

ETOC @ 955'

Original CompletionBenson – 4411'-4428' – 12 perfs – 500 gal acid, 160 bbl H₂O, 420,000 scf N₂, 450 sks sandRiley – 4230'-4324' – 10 perfs – 500 gal acid, 100 bbl H₂O, 230,000 scf N₂, 200 sks sandBalltown – 3218'-3401' – 14 perfs – 800 gal acid, 132 bbl H₂O, 290,000 scf N₂, 300 sks sand**Workover Completion**Speechley - 3087'-3092' – 12 perfs – 500 gal 15% HCl, 355 bbl gelled H₂O, 60 Mscf N₂, 250 sks sandGordon - 2268'-2278' – 20 perfs – 500 gal 15% HCl, 286 bbl gelled H₂O, 49 Mscf N₂, 200 sks sandBig Injun - 1466'-1480' – 20 perfs – 500 gal 15% HCl, 266 bbl gelled H₂O, 30 Mscf N₂, 200 sks sand

Fresh Water: 86'

Saltwater: None Reported

Gas Shows: 2261', 2605', 4139', 4579'

Oil Shows: None Reported

Coat: 47'-58'

Elevation: 1092'

1. Notify Inspector Kenny Willett @ 681-990-2567, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Blow well down. Kill with fluid as necessary.
4. Pump 6% bentonite gel in between all cement plugs.
5. Verify if bridge plug is still in place @ 3162' w/ sandline/wireline/tbg. If not, verify TD.
6. If bridge plug is @ 3162', TIH and knock out/drill out bridge plug.
7. TIH w/ tbg to 4570'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 20 bbls gel.

Kj Willett
8/21/24

09/20/2024

4703303608P

8. Pump 481' Class L cement plug from 4570' to 4089' (4-1/2" Csg Shoe, Benson & Riley & Gas Show Plug). WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
9. TOOH to 3451'. Pump 414' Class L cement plug from 3451' to 3037' (Balltown & Speechley Plug). WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
10. TOOH w/ tbg to 2655'. Pump 444' Class L cement plug from 2655' to 2211' (Gas Show & Gordon Plug). WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
11. TOOH w/ tbg to 1530'. Pump 114' Class L cement plug from 1530' to 1416' (Big Injun Plug). WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
12. Free point 4-1/2" csg. Depending on free point in comparison to 8-5/8" Csg Shoe & Elevation Plug, decide to cut & TOOH before or after 8-5/8" Csg Shoe & Elevation Plug is set.
13. TOOH w/ tbg to 1283'. Pump 241' Class L cement plug from 1283' to 1042' (8-5/8" Csg Shoe & Elevation Plug). WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed. Can combine w/ 4-1/2" Csg Cut Plug depending on proximity.
14. TIH w/ tbg and set 100' Class L cement plug across 4-1/2" csg cut. 50' in/out of cut. TOOH w/ tbg to top of plug. WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed. Can combine w/ 8-5/8" Csg Shoe & Elevation Plug depending on proximity.
15. TOOH w/ tbg to 150'. Pump 150' Expanding Class L cement plug from 150' to Surface (Fresh Water, Coal, & Surface Plug). Top off as needed. Perforate as needed.
16. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

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Office of Oil and Gas

AUG 23 2024

Office of Oil and Gas
West Virginia Department of Environmental Protection

09/20/2024

WR-35

RECEIVED
WV Division of
Environmental Protection

4703308608 P

19-JUL-96

API # 47- 33-03608

JAN 07 1998

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: COTTRILL, CHESTER W. Operator Well No.: COTTRILL 1-E-79

LOCATION: Elevation: 1092.00 Quadrangle: CLARKSBURG

District: COAL County: HARRISON
Latitude: 1040 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 11115 Feet West of 80 Deg. 20 Min. 0 Sec.

Company: Exploration Partners Prod
P.O. Box 930
Bridgeport, WV 26330-1245

Agent: Louis A. Ferrari

Inspector: MIKE UNDERWOOD
Permit Issued: 07/22/96
Well Work Commenced: 07/14/97
Well Work Completed: 07/23/97

Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____
Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size	SEE ORIGINAL WR-35		
NO ADDITIONAL CASING RUN			
8 5/8"	1233'	1233'	Squeeze 325 sks

OPEN FLOW DATA

Producing formations Speechley, Gordon, Injun Pay zone depth (ft) 1466-3092
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
Final open flow 119 MCF/d Final open flow _____ Bbl/
Time of open flow between initial and final tests 24 Hour
Static rock pressure 70 psig (surface pressure) after 48 Hour

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial Open flow _____ Bbl/
Final open flow _____ MCF/d Final open flow _____ Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock pressure _____ psig (surface pressure) after _____ Hour

NOTE: CHECK OFF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVAL: 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: EXPLORATION PARTNERS LLC

By: Louis A. Ferrari
Date: November 18, 1997

09/20/2024

HAR 3608

4703303608P

FORM IV-35
(REVERSE)

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

SET BRIDGE PLUG @ 3162, SHOOT 4 SQUEEZE PERFS @ 2605. BREAK CIRCULATION & PUMP
325 SKS CEMENT; JOB SUCCESSFUL.

STAGE I (3087-3092) 12 HOLES 500 GAL 15% HCL, 25,000 BSAND, 35E BBL GELLED H2O, 60 MSCF N2 ASSIST.

STAGE II (2268-2278) 20 HOLES 500 GAL 15% HCL, 25,000 BSAND, 286 BBL GELLED H2O, 49 MSCF N2 ASSIST.

STAGE III (1466-1488) 20 HOLES 500 GAL 15% HCL, 20,000 BSAND, 266 BBL GELLED H2O, 30 MSCF N2 ASSIST.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u> Including indication of all fresh and salt water, coal and gas

09/20/2024

4703303608P

WR-35

25-Apr-89
API # 47- 33-03608

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: COTTRILL, CHESTER W. Operator Well No.: COTTRILL 1-E-79

LOCATION: Elevation: 1092.00 Quadrangle: CLARKSBURG

District: COAL County: HARRISON
Latitude: 1040 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 11115 Feet West of 80 Deg. 20 Min. 0 Sec.

Company: EXCEL ENERGY, INC
901 W. MAIN STREET, SUITE 201
BRIDGEPORT, WV 26330-0000

Agent: H. L. BARNETT

Inspector: STEVE CASEY
Permit Issued: 04/25/89
Well work Commenced: 06/13/89
Well work Completed: 06/19/89
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 4580'
Fresh water depths (ft) 86'

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? No
Coal Depths (ft): 47' - 58'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	20'		
8 5/8"	1233'	1233'	CTS
4 1/2"	4521'	4521'	395 SS

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JUL 11 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON - RILEY Pay zone depth (ft) 4290-4420
Gas: Initial open flow SHOW MCF/d Oil: Initial open flow Bbl/d
Final open flow 730 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 900 psig (surface pressure) after 24 Hours

Second producing formation BALLTOWN Pay zone depth (ft) 3280-3400
Gas: Initial open flow SHOW MCF/d Oil: Initial open flow Bbl/d
Final open flow COMINGLED MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure COMINGLED psig (surface pressure) after Hours

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: EXCEL ENERGY, INC

By: H.L. Barnett H.L. BARNETT
Date: July 10, 1989

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Division of Oil and Gas

AUG 29 2024

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09/20/2024

FORM IV-35
(REVERSE)

- DETAILS OF PERFORMED INTERVALS, FINISHING OR STIMULATION, PHYSICAL CHANGE, ETC.
- STAGE I - Benson (4411'-4428') 12 holes, 160 bbl H²O, 500 gal. acid, 45,000# sand & 420,000 SCF Nitrogen.
- STAGE II - RILEY (4230'-4324') 10 holes, 100 bbl H²O, 500 gal acid, 20,000# sand & 230,000 SCF Nitrogen.
- STAGE III - BALLTOWN (3218'-3401') 14 holes, 132 bbl H²O, 800 gal acid, 30,000# sand, 290,000 SCF Nitrogen.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	DEPTH FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil	Red	Soft	0'	10'	
Sand & Shale	Gray	Soft	10'	47'	
Coal	Black	Soft	47'	58'	
Shale & Sand	Gray	Soft	58'	1255'	H ² O @ 86' 1" stream
Red Rock	Red	Soft	1255'	1293'	
Sand & Shale	Gray	Soft	1293'	1400'	
Big Lime	Gray	Hard	1400'	1454'	
Big Injun	Gray	Med.	1454'	1558'	
Shale & Sand	Gray	Soft	1558'	2003'	
50' Sand	Gray	Med.	2003'	2079'	
Shale & Sand	Gray	Soft	2079'	2262'	Gas Ck. @ 2261' 4/10 2" H ² O
Gordon Sand	Gray	Med.	2262'	2296'	
Shale	Gray	Soft	2296'	2385'	
5th Sand	Gray	Med.	2385'	2433'	Gas Ck. @ 2605' 24/10 2" H ² O
Shale	Gray	Soft.	2433'	3082'	
Speechley	Gray	Soft	3082'	3180'	
Balltown	Gray	Soft	3180'	3422'	Gas ck. @ 4139' 8/10 2" H ² O
Shale	Gray	Soft	3422'	4220'	
Riley Sand	Gray	Soft	4220'	4326'	
Shale	Gray	Soft	4326'	4402'	
Benson Sand	Brown	Soft	4402'	4430'	Gas Ck. @ 4579' 14/10 2" H ² O
Shale	Gray	Soft	4430'	4580'	Gas Ck. @ TD 10/10 2" H ² O
		TD		4580'	

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JUL 11 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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Division of Oil and Gas

AUG 23 2024

Department of
Environmental Protection



Select County: (033) Harrison Select datatypes: (Check All) Location Production Plugging Owner/Completion Stratigraphy Sample Pay/Show/Water Logs Btm Hole Loc

- Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
Pipeline-Plus New

"Pipeline"

Well: County = 33 Permit = 03608 Link to all digital records for well

Report Time: Monday, September 16, 2024 12:46:40 PM

WV Geological & Economic Survey:

Location Information: View Map

Table with columns: API, COUNTY, PERMIT, TAX, DISTRICT, QUAD_75, QUAD_15, LAT_DD, LON_DD, UTM_E, UTM_N

There is no Bottom Hole Location data for this well

Owner Information table with columns: API, CMP_DT, SUFFIX, STATUS, SURFACE_OWNER, WELL_NUM, CO_NUM, LEASE, LEASE_NUM, MINERAL_OWN, OPERATOR_AT_COMPLETION, PROP_VD, PROP_TRGT_FM, TFM_EST_PR

Completion Information table with columns: API, CMP_DT, SUFFIX, ELEV, DATUM, FIELD, DEEPEST_FM, DEEPEST_FMT, INITIAL_CLASS, FINAL_CLASS, TYPE, RIG, CMP_MTHD, TVD, TMD, NEW_FTG, KOD, G_BEF, G_AFT, O_BI

Pay/Show/Water Information table with columns: API, CMP_DT, ACTIVITY, PRODUCT, SECTION, DEPTH_TOP, FM_TOP, DEPTH_BOT, FM_BOT, G_BEF, G_AFT, O_BEF, O_AFT, WATER_QNTY

Production Gas Information: (Volumes in Mcf) table with columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_GAS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil table with columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_OIL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

09/20/2024

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703303608	Consol Gas Company	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Consol Gas Company	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Consol Gas Company	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Dominion Energy Transmission, Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Alliance Petroleum Co., LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Alliance Petroleum Co., LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Alliance Petroleum Co., LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2023	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703303608	Dominion Energy Transmission, Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Alliance Petroleum Co., LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Alliance Petroleum Co., LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303608	Diversified Production, LLC	2023	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703303608	Original Loc	unidentified coal	Well Record	47	Reasonable	11	Reasonable	1092	Ground Level
4703303608	Original Loc	Big Lime	Well Record	1400	Reasonable	54	Reasonable	1092	Ground Level
4703303608	Original Loc	Big Injun (Gmbr)	Well Record	1454	Reasonable	104	Reasonable	1092	Ground Level
4703303608	Original Loc	Fifty-foot	Well Record	2003	Reasonable	76	Reasonable	1092	Ground Level
4703303608	Original Loc	Gordon	Well Record	2262	Reasonable	34	Reasonable	1092	Ground Level
4703303608	Original Loc	Fifth	Well Record	2385	Reasonable	48	Reasonable	1092	Ground Level
4703303608	Original Loc	Speecheley	Well Record	3082	Reasonable	98	Reasonable	1092	Ground Level
4703303608	Original Loc	Balltown	Well Record	3180	Reasonable	242	Reasonable	1092	Ground Level
4703303608	Original Loc	Riley	Well Record	4220	Reasonable	106	Reasonable	1092	Ground Level
4703303608	Original Loc	Benson	Well Record	4402	Reasonable	28	Reasonable	1092	Ground Level

Wireline (E-Log) Information:

* Scanned/Raster Log Information:

API	STATUS	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	L_TOP	L_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	IN4
4703303608	Regular Entry	1228	4555		G	Y	1228	4555													N	Y

* There is no Digitized/LAS Log data for this well

Downloadable Log Images/Data: We advise you to save the scanned log or digitized log file(s) to your PC for viewing. To do so, right-click the file of interest and select the save option. Then you can direct the file to a location of your choice. Please note the scanned log images vary in size and some may take several minutes to download.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other¹
- p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

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033-3608

FORM WW-2B

Page ___ of _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: EXCEL ENERGY, INC. 16570 (3) 297
- 2) Operator's Well Number: COTTRILL E-79 3) Elevation: 1090'
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 4900 feet
- 7) Approximate fresh water strata depths: 134', 370'
- 8) Approximate salt water depths: NONE
- 9) Approximate coal seam depths: 105'
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: DRILL AND STIMULATE NEW WELL.
- 12)

RECEIVED
Office of Oil and Gas
AUG 23 2024

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	
Conductor	11 3/4"		42#	30'	
Fresh Water					
Coal					
Intermediate	8 5/8"		23#	1200'	1200' 289 sks
Production	4 1/2"	J55	10.50#	4700'	4700' 410 sks
Tubing					
Liners					

38507-113
38507-112

RECEIVED
APR 06 1989

PACKERS Kind _____
Sizes _____
Depths set _____

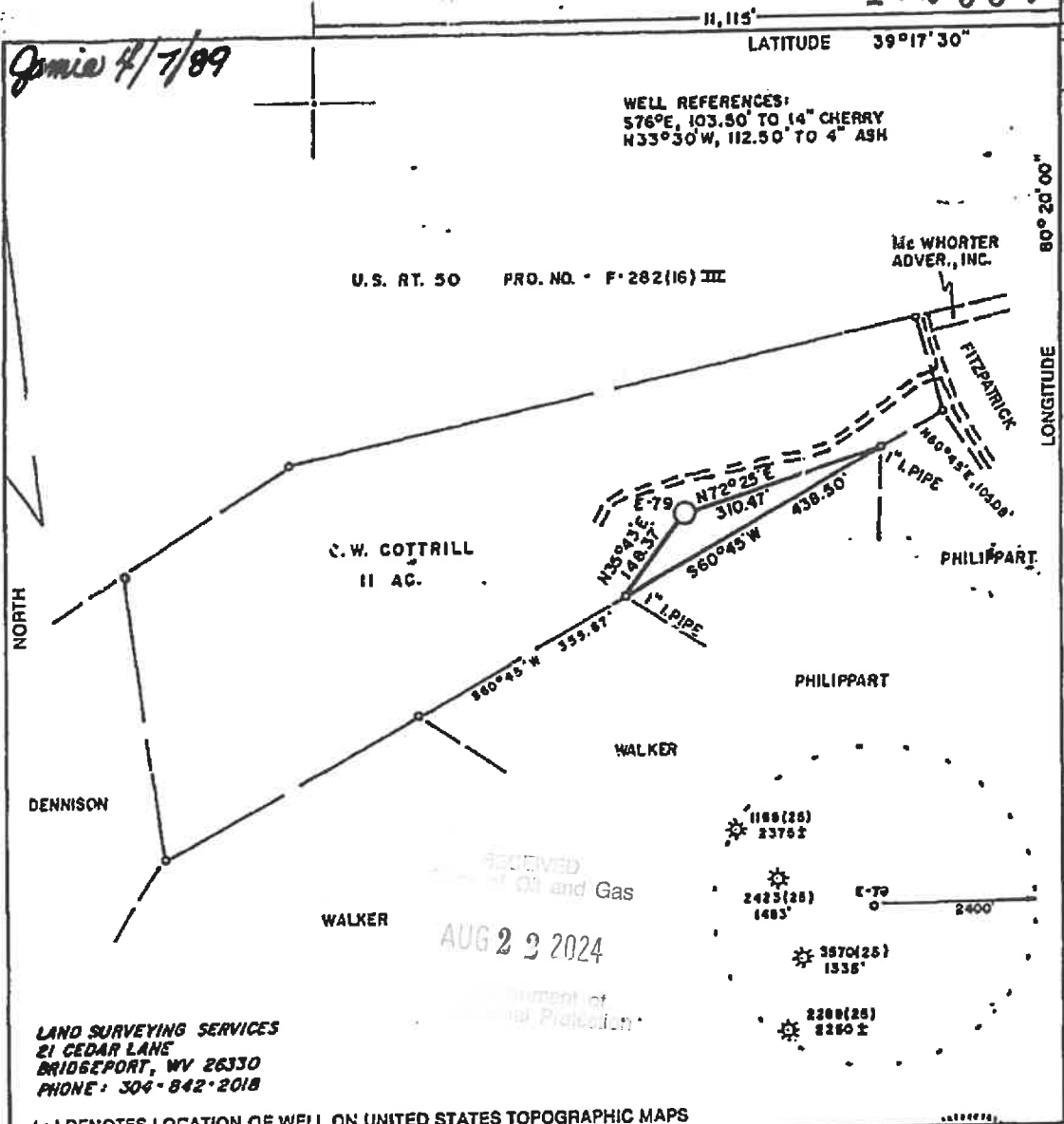
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

233/4 Fee(s) paid: 1 Well Work Permit 1 Reclamation Fund 1 WPCP
1 Plat 1 WW-9 1 WW-2B 1 Bond Blanket 1 Agent
(Type)

4703303608P

Opmie 4/7/89



LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM 3250' N.E. OF LOCATION
 ELEV. 957'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.
 (SIGNED) [Signature]
 R.P.E. _____ I.L.S. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE MARCH 30 19 89
 OPERATOR'S WELL NO. E-79
 API WELL NO. COTTRILL NO.1
47-033-3608
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1092' WATER SHED LIMESTONE RUN
 DISTRICT COAL COUNTY HARRISON
 QUADRANGLE CLARKSBURG 7.5 min.
 SURFACE OWNER CHESTER W. COTTRILL ACREAGE 11.01
 OIL & GAS ROYALTY OWNER CHESTER W. COTTRILL LEASE ACREAGE 11.00
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION BENSON ESTIMATED DEPTH 4700'
 WELLOPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 1020 ADDRESS P.O. BOX 1020
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

FORM WV-6 (1-77)

COUNTY NAME

PERMIT

09/20/2024

WW-4A
Revised 6-07

1) Date: 07/31/2024
2) Operator's Well Number COTTRILL

3) API Well No.: 47 - 033 - 03608

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>Richard D & Colleen G Gladwell</u>	Name _____
Address <u>255 Gladwell Street</u>	Address _____
<u>Clarksburg, WV 26301</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Carolyn C & Robert C Brinkley</u>
_____	Address <u>2753 S. Utica Ave</u>
_____	<u>Tulsa, OK 74114</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Kenny Willett</u>	(c) Coal Lessee with Declaration
Address <u>2393 Tallmansville Rd.</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>(681) 990-2567</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: Chris Veazey
 Its: Director of Administration
 Address 414 Summers Street
Charleston, WV 25301
 Telephone 304-590-7707

Subscribed and sworn before me this 31 day of July, 2024
Jeffrey Bush Notary Public

My Commission Expires September 28, 2028

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.

4703303608P

Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
CHARLESTON WV 25301



US POSTAGE AND FEES PAID

2024-07-31

25301

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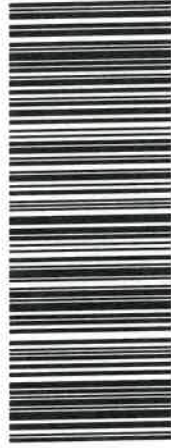
Retail

4.0 OZ FLAT



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9407 1362 0855 1604 2822 89



RICHARD D & COLLEEN G GLADWELL
255 GLADWELL ST
CLARKSBURG WV 26301-7412

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AUG 22 2024

09/20/2024

7/31/24, 3:25 PM

SURFACE OWNER WAIVER

Operator's Well
Number

4703303608

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

RECEIVED
OFFICE OF OIL AND GAS
AUG 23 2024
Department of Environmental Protection

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

_____	Date	_____	Name	_____
Signature		By	Its	_____
				Date
		Signature		Date

09/20/2024

Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
CHARLESTON WV 25301

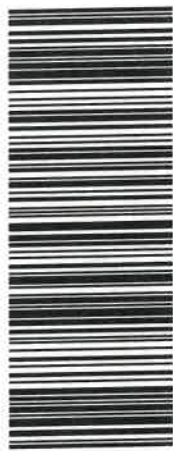
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CAROLYN C & ROBERT C BRINKLEY
2753 S UTICA AVE
TULSA OK 74114-4205

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AUG 23 2024
Department of Energy

4703303608

4703303608P

WW-4B

API No. 4703303608
Farm Name Gladwell
Well No. COTTRILL

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

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Department of
Environmental Protection

WAIVER

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

09/20/2024



DIVERSIFIED
energy

4703303608P

Date: 07/31/2024

James Martin
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304)926-0450

Mr. Martin,

Due to our cement provider, LaFarge Holcem, discontinuing the manufacturing of Class A cement, DGOC will be utilizing Class L cement to plug the following well:

API Number 4703303608 Well Name COTTRILL

Attached is the approved variance order for use of Class L cement.

Sincerely,

Diversified Energy Permitting Department

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Office of Oil and Gas
AUG 22 2024
Charleston, WV



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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Department of
Environmental Protection

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

Promoting a healthy environment.

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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


James Martin, Chief
Office of Oil and Gas

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Environmental Protection

4703303608P

WW-9
(5/16)

API Number 47 - 033 - 03608
Operator's Well No. COTTRILL

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) Limestone Creek Quadrangle Clarksburg

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: Production 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 2D03902327 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.

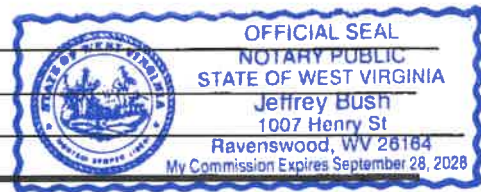
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

Company Official Title Director of Administration



Subscribed and sworn before me this 31 day of July, 2024

[Signature] Notary Public

My commission expires September 28, 2028

09/20/2024

Form WW-9

Operator's Well No. COTTRILL

Proposed Revegetation Treatment: Acres Disturbed +/- 1 ac. Prevegetation pH N/A

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

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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: Ky Willard

Comments: _____

Title: Inspector Date: 8/21/24

Field Reviewed? () Yes () No



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

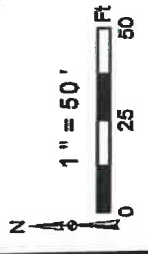
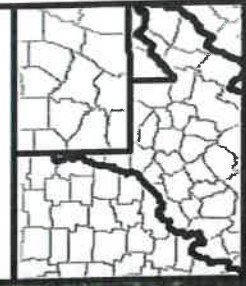
47-033-03608

Well Plugging Map

Legend

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

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AUG 22 2024
Department of Environmental Protection



Well No.: 47-033-03608
UTM83: 17, Meters
North: 4949010.3
East: 554109.44
Elev.: 336.78 M
Elev.: 1104.65 FT

Source: Esri, DeLorme, GeoEye, and the USGS



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

47-033-03608

Well Plugging Map

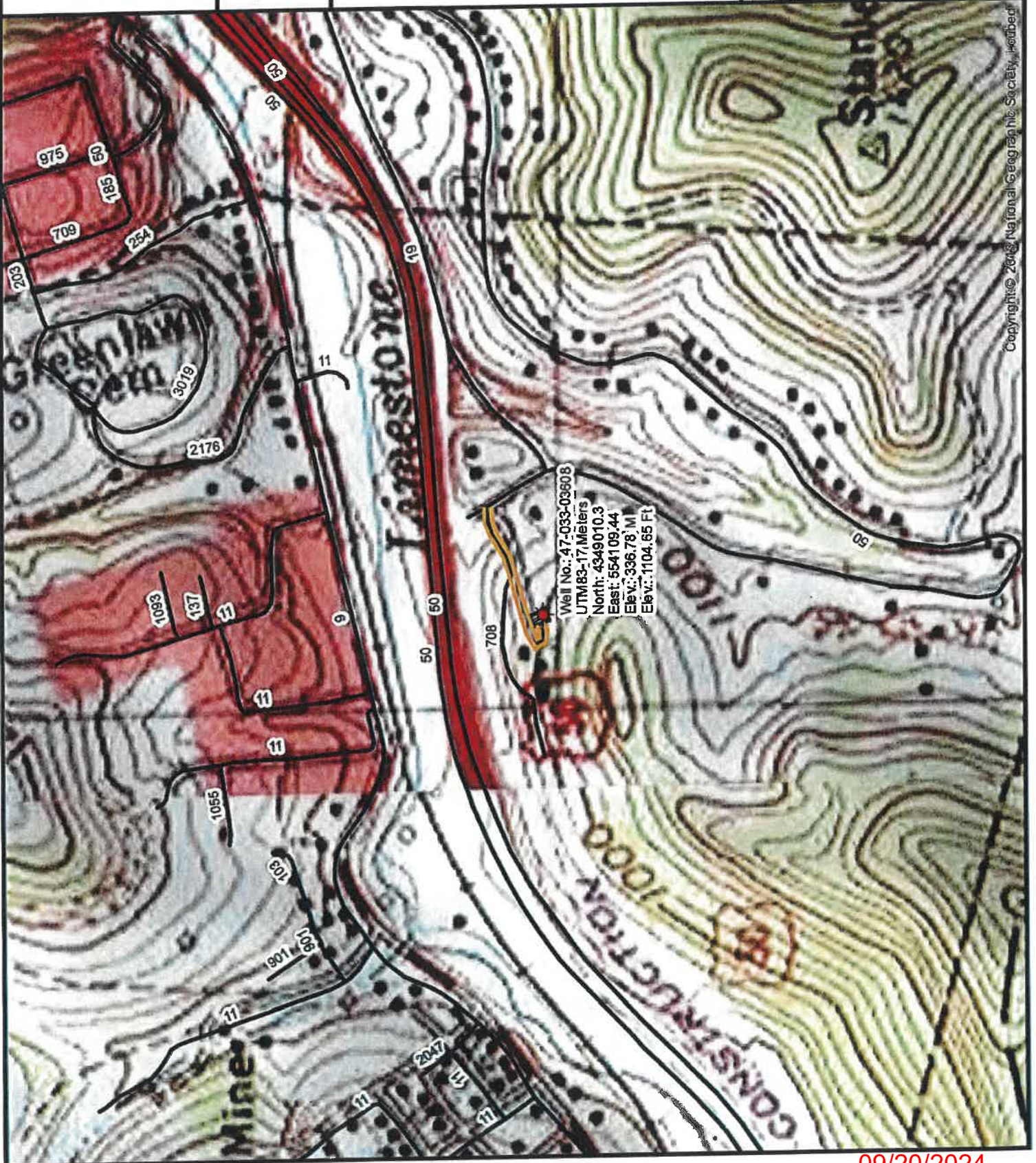
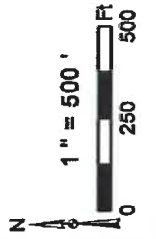
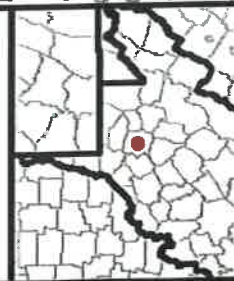
Legend

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

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WW-7
8-30-06



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

API: 4703303608 WELL NO.: COTTRILL

FARM NAME: Gladwell

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Harrison DISTRICT: Coal-Outside

QUADRANGLE: Clarksburg

SURFACE OWNER: Richard D & Colleen G Gladwell

ROYALTY OWNER: Carolyn Brinkley

UTM GPS NORTHING: 4349010.3

UTM GPS EASTING: 554109.44 GPS ELEVATION: 1104.65'

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 X: Post Processed Differential X

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.

Chris Veazey - Director of Administration

Title

7/31/24
Date

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Office of Oil and Gas
AUG 23 2024
WV Dept of Environmental Protection