



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, November 1, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 11
47-005-00637-00-00

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: 11
Farm Name: COURTNEY CO.
U.S. WELL NUMBER: 47-005-00637-00-00
Vertical Plugging
Date Issued: 11/1/2022

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4700500637P

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.

11/04/2022

4700500637P

WW-4B
Rev. 2/01

1) Date September 26, 2022
2) Operator's
Well No. 11
3) API Well No. 47-005 - 00637

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

RECEIVED
Office of Oil and Gas

OCT 07 2022

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

WV Department of
Environmental Protection

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 890 feet Watershed Mud River
District Washington County Boone Quadrangle Madison

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

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name Next LVL Energy
Address P.O. Box 1207 Address 1951 Pleasantview Ridge Road
Clendenin, WV 25045 Ravenswood, WV 26164

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

See Attached

See Prog Page

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

Work order approved by inspector  Date 10-4-22

11/04/2022

Plugging Prognosis

API #: 4700500637

West Virginia, Boone Co.

Lat/Long: 38.08893577, -81.96019384

Nearest ER: CAMC Memorial Hospital 3200 MacCorkle Ave SE, Charleston, WV 25304

Casing Schedule:

10" @ 14'

8-1/4" @ 254' (no cement record)

6-5/8" @ 1453' (no cement record)

3-1/2" tbg @ 2180' (wall and anchor packer set at 1791')

TD @ 2178'

Completion: 2146'-2169'

Fresh Water: None listed

Salt Water: None listed, Shallowest Salt Sand 615'-665'

Gas Shows: None listed

Oil Shows: None listed

Coal: 35'-38'; 120'-123'; 223'-227'

Elevation: 871'

*Will pull all free
Pipe**WELL RECORD SHOWS 2" TUBING**Operator to core with Cement
All Oil & Gas Formation including
Salt, Elevation, Coals, & Freshwater horst**[Signature]
10-4-22*

1. Notify Inspector Terry Urban @ 304-549-5915, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Release packer, pull and lay down tbg.
4. Run wireline to check TD and run CBL on 6-5/8" csg. → 2140' ⇒ TOP OF SHOT IS 2146'
5. Run in to depth @ 2169'. Kill well as needed with 6% bentonite gel and fill rat hole. Pump at least 10 bbls gel. Pump 123' C1A/Class L cement plug from ~~2169'~~ ^{2140'} to ~~2046'~~ ^{2040'} (perforations plug). Tag TOC. Pump plugs in stages as needed. Top off as needed.
6. TOOH w/ tbg to 2046'. Pump 6% bentonite gel from 2046' to 1503'.
7. TOOH w/ tbg to 1503', pump 100' C1A/Class L cement plug from 1503' to 1403' (6-5/8" csg plug).
8. TOOH w/ tbg to 1403'. Pump 6% bentonite gel from 1403' to 615'.
9. Free point 6-5/8" csg. Cut and TOOH. Set 100' C1A/Class L cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
10. TOOH w/ tbg to 615', pump 100' C1A/Class L cement plug from 615' to 515' (Plug above shallowest salt sand).
11. TOOH w/ tbg to 515'. Pump 6% bentonite gel from 515' to 304'.
12. Free point 8-1/4" csg, if csg isn't cemented to surface. Cut and TOOH. TIH w/ tbg to 304' and pump 304' C1A/Class L cement plug from 304' to surface (coal seams and 8-1/4" csg shoe plug). **Perforate as needed.**
13. Reclaim location and well road to WV DEP specifications and erect P&A well monument.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

4700500637

47-~~005~~-00637
005

7 a d i c e e

WELL RECORD

Permit No. Boo-637 Oil or Gas Well _____ (KIND)

Company Harvard Gas Company
Cambridge Gas Company
Address Charleston, W. Va.

Farm Courtney Co Acres _____

Location (waters) _____

Well No. 11 Elev. _____

District Scott County Boone

The surface of tract is owned in fee by _____

Address _____

Mineral rights are owned by Courtney Company
Odd Fellows Bldg Address Charleston, W. Va.

Drilling commenced January 5, 1945

Drilling completed March 5, 1945

Date Shot 2750# Mar 3, 45 From Detonite 2146-2169' To _____

With _____

Open Flow _____ /10ths Water in _____ Inch

_____ /10ths Merc. in _____ Inch

Volume Gas Well _____ Cu. Ft.

Rock Pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16.			Kind of Packer _____
13.			Wall & Anchor
10.	14'	14'	Size of _____
8 3/4	254' 9"	254' 9"	
6 3/4	1453	1453	Depth set <u>1791'</u>
5 3/16			
3			Perf. top _____
2	2180	2180	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

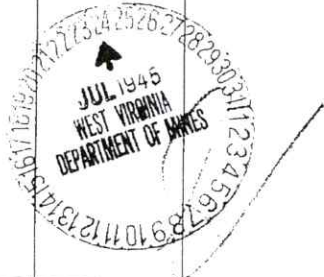
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 35 FEET 36 INCHES

120 FEET 36 INCHES 223 FEET 48 INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	13			
Sand			13	25			
Black Slate			25	35			
Coal			35	38			
Slate			38	120			
Coal			120	123			
Slate & Lime			123	223			
Coal			223	227			
Slate			227	233			
Sand			233	245			
Slate & Shells			245	351			
White Sand			351	376			
Slate & Shells			376	441			
White Sand			441	485			
Black Slate			485	615			
Salt Sand			615	665			
Slate			665	705			
Salt Sand			705	965			
Slate & Shells			965	1100			
Sand Hard			1100	1290			
Slate & Shells			1290	1335			
Red Rock			1335	1338			
White Slate			1338	1382			
Sand Hard			1382	1395			
Slate & Shells			1395	1402			
Little Lime			1402	1435			
Pencil Cave			1435	1439			
Big Lime			1439	1653			
Injun			1653	1690			
Slate			1690	1702			
Lime Shell			1702	1720			
Slate & Shells			1720	1780			
Lime Shell			1780	1854			
Slate & Shell			1854	2129			
Brown Shale			2129	2145			
Berea			2145	2170			
T. D.			2170	2178			





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

Select County: (005) Boone (Check All)

Enter Permit #: 00637

Get Data Reset

Select datatypes: Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

WV Geological & Economic Survey

Well: County = 5 Permit = 00637 [Link to all digital records for well](#)

Report Time: Tuesday, November 01, 2022 10:10:16 AM

Location Information: [View Map](#)

API	COUNTY PERMIT TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTIME	UTMIN
4700500637	Boone 637	Washington Mud	Madison	38.089127	-81.960753	415749.7	4216139.7

There is no Bottom Hole Location data for this well

Owner Information:

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
4700500637	3/5/1945	Original	Loc. Completed	Courtnay Co.9						Harvard & Cambridge			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	FMT	INITIAL CLASS	FINAL CLASS	TYPE RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	P_AFT	TI_AFT
4700500637	3/5/1945	1/5/1945	871	Ground Level	Julian-Madison	Berea Ss	Development Well	Development Well	Gas	unknown	Shot	2,178	2,178		0	0	0	0	0	0	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOTTOM	FM_BOTTOM	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4700500637	3/5/1945	Pay	Gas	Vertical	2146	Berea Ss	0	0	0	0	0	0	

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM	
4700500637	Ashland Exploration Co.	1981	1,660	214	180	203	244	166	158	117	73	0	0	0	120	185
4700500637	Ashland Exploration Co.	1982	1,274	181	191	191	161	192	169	0	0	0	0	0	139	49
4700500637	Ashland Exploration Co.	1983	1,034	55	222	382	112	115	128	0	0	0	0	0	0	75
4700500637	Ashland Exploration Co.	1984	1,665	138	112	121	141	146	100	114	130	219	200	175	69	
4700500637	Ashland Exploration Co.	1985	1,140	96	147	136	164	63	92	83	0	3	62	117	177	
4700500637	Ashland Exploration Co.	1986	1,395	197	187	140	166	73	0	170	140	13	192	1	1	
4700500637	Ashland Exploration Co.	1987	936	142	153	135	131	64	114	165	19	10	1	1	1	
4700500637	Ashland Exploration Co.	1988	1,254	2	0	73	120	0	91	121	117	207	140	215	168	
4700500637	Ashland Exploration Co.	1990	1,494	168	192	157	178	185	158	191	0	0	0	0	263	
4700500637	Ashland Exploration Co.	1991	1,122	252	157	32	43	144	0	0	141	120	100	133	138	
4700500637	Ashland Exploration Co.	1992	1,526	136	167	141	99	126	139	120	64	133	85	178	138	
4700500637	Ashland Exploration Co.	1993	1,467	112	112	128	108	54	178	141	93	122	217	120	82	
4700500637	Ashland Exploration Co.	1994	1,455	132	102	117	126	101	98	133	137	125	149	118	117	
4700500637	Ashland Exploration Co.	1995	1,534	178	138	147	7	71	160	140	158	150	137	118	130	
4700500637	Ashland Exploration Co.	1996	1,912	172	152	268	176	103	156	165	160	150	135	131	144	
4700500637	Eastern States Oil & Gas, Inc.	1997	1,728	123	137	149	146	134	136	115	136	171	208	150	123	
4700500637	Ashland Exploration Co.	1998	1,299	110	114	120	99	128	119	107	108	81	97	106	110	
4700500637	Eastern States Oil & Gas, Inc.	1999	1,252	113	100	120	150	92	80	78	109	106	97	96	111	
4700500637	Ashland Exploration Co.	2000	1,205	93	87	93	90	93	90	93	93	93	128	124	128	
4700500637	Ashland Exploration Co.	2001	605	99	91	51	40	39	51	45	44	53	31	30	31	
4700500637	Equitable Production Company	2002	364	31	28	31	30	31	30	31	31	31	30	31	30	
4700500637	Equitable Production Company	2003	365	30	28	31	30	31	30	31	31	30	32	30	31	
4700500637	Equitable Production Company	2004	538	31	29	31	30	31	30	31	54	56	54	56	54	
4700500637	Equitable Production Company	2005	339	56	50	56	54	56	54	56	54	13	0	0	0	
4700500637	Equitable Production Company	2006	56	0	0	0	0	0	0	0	0	0	0	0	0	
4700500637	Equitable Production Company	2007	1,864	56	235	216	201	218	205	213	133	119	107	71	89	
4700500637	Equitable Production Company	2008	1,032	96	90	88	104	75	86	91	90	81	89	85	57	
4700500637	Equitable Production Company	2009	938	78	71	79	77	79	102	80	23	88	86	86	89	
4700500637	Equitable Production Company	2010	1,114	88	80	89	86	89	86	86	133	97	91	97	86	
4700500637	Equitable Production Company	2011	966	93	90	98	94	69	24	73	89	86	83	82	85	
4700500637	Equitable Production Company	2012	258	85	0	0	83	0	23	8	10	14	11	12	12	
4700500637	Equitable Production Company	2013	139	11	11	12	11	12	11	12	11	12	11	12	11	
4700500637	Equitable Production Company	2014	139	12	11	12	11	12	11	12	11	12	11	12	11	
4700500637	Equitable Production Company	2015	46	12	11	12	11	12	11	12	11	12	11	12	11	
4700500637	Equitable Production Company	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	
4700500637	Equitable Production Company	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	
4700500637	Alliance Petroleum Co., LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	
4700500637	Alliance Petroleum Co., LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	
4700500637	Diversified Production, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	
4700500637	Diversified Production, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4700500637	Ashland Exploration Co.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1984	1,665	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0

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API	PRODUCING_OPERATOR	PRD_YEAR	ANN	NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4700500637	Ashland Exploration Co.	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Eastern States Oil & Gas, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Eastern States Oil & Gas, Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Ashland Exploration Co.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Equitable Production Company	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Alliance Petroleum Co., LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Alliance Petroleum Co., LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Diversified Production, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Diversified Production, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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
4700500637	EQT Production Company	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	EQT Production Company	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Alliance Petroleum Co., LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Alliance Petroleum Co., LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Diversified Production, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Diversified Production, LLC	2021	0	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
4700500637	EQT Production Company	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Alliance Petroleum Co., LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Alliance Petroleum Co., LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Diversified Production, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4700500637	Diversified Production, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM QUALITY	DEPTH_TOP	DEPTH	QUALITY	THICKNESS	THICKNESS	QUALITY	ELEV	DATUM	
4700500637	Well Record	Original Loc	120	35	Reasonable	3	Reasonable	3	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	223	Reasonable		4	Reasonable	4	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	615	Reasonable		50	Reasonable	50	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	705	Reasonable		260	Reasonable	260	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	1402	Reasonable		33	Reasonable	33	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	1435	Reasonable		4	Reasonable	4	Reasonable	871	Ground Level
4700500637	Well Record	Past WV/GES Staff Geologist	1439	Reasonable		214	Reasonable	214	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	1653	Reasonable		517	Reasonable	517	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	1653	Reasonable		37	Reasonable	37	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	2129	Reasonable		16	Reasonable	16	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	2145	Reasonable		25	Reasonable	25	Reasonable	871	Ground Level
4700500637	Well Record	Original Loc	2170	Reasonable		0	Reasonable	0	Reasonable	871	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

11/04/2022

WW-4A
Revised 6-07

1) Date: September 26, 2022

2) Operator's Well Number
11

3) API Well No.: 47 - 005 - 00637

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

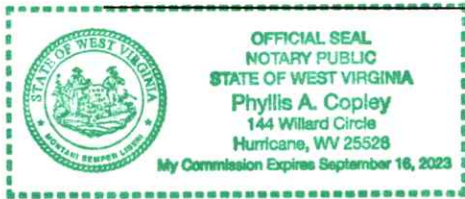
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>West Virginia Economic Development Authority</u>	Name <u>ERP Environmental Fund Inc. Attn: Barry Doss</u>
Address <u>160 Association Drive</u>	Address <u>202 School Drive</u>
<u>Charleston, WV 25311</u>	<u>Shrewsbury, WV 25015</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Courtney Minerals LLC</u>
	Address <u>3574 Teays Valley Road, Suite B</u>
	<u>Hurricane, WV 25526</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name <u>ERP Environmental Fund Inc. Attn: Barry Doss</u>
<u>Clendenin, WV 25045</u>	Address <u>202 School Drive</u>
Telephone <u>304-549-5915</u>	<u>Shrewsbury, WV 25015</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

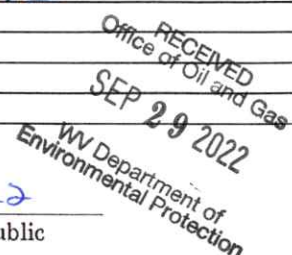
By: Austin Suller *Austin Suller*

Its: Plugging Manager

Address 414 Summers Street

Charleston, WV 25301

Telephone 304-419-2562



Subscribed and sworn before me this 27th day of September, 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.

4700500637P

47-050-00637
Well 11

7022 2410 0001 3247 0724

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Charleston, WV 25311

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Extra Services & Fees (check box, add fee as appropriate)	\$3.25
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<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
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Total Postage	\$8.93

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09/27/2022

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160 Association Drive
Charleston, WV 25311

PS Form 3800, June 2019

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
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Total Postage	\$8.93

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HAMLIN WV

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Courtney Minerals LLC
3574 Teays Valley Road, Suite B
Hurricane, WV 25526

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WV Department of
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<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	\$1.68
Total Postage	\$8.93

0523 07
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09/27/2022

Sent To: ERP Environmental Fund Inc.
Attn: Barry Doss
202 School Drive
Shrewsbury, WV 25015

PS Form 3800, June 2019

11/04/2022

SURFACE OWNER WAIVER

4700500637P

Operator's Well
Number

11

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

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OCT-05-2022
WV 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,

Signature

Date

Name
By
Its

WEST VIRGINIA ECONOMIC DEVELOPMENT
AUTHORITY
Kris Warner
EXECUTIVE DIRECTOR

Signature
Date 10/03/22
Date 11/04/2022

4700500637P

WW-9
(5/16)

API Number 47 - 005 - 00637
Operator's Well No 11

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) Mud River Quadrangle Madison

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 *TU*

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 2D03902327002)
- 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 *Austin Sutler*

Company Official (Typed Name) Austin Sutler

Company Official Title Plugging Manager



Subscribed and sworn before me this 27th day of September, 2022

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

11/04/2022

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: [Signature]

Comments: _____

Title: Inspect Date 6/15 Date: 10-4-20

Field Reviewed? Yes No

WW-7
8-30-06

4700500637P



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4700500637 WELL NO.: 11

FARM NAME: Courtney Company

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Boone DISTRICT: Washington

QUADRANGLE: Madison

SURFACE OWNER: West Virginia Economic Development Authority

ROYALTY OWNER: Pardee Oil & Gas LLC

UTM GPS NORTHING: 4216120.65

UTM GPS EASTING: 415782.54 GPS ELEVATION: 890'

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 Sutler
Date: 2022.07.19 16:11:52
-04'00'

Signature

Plugging Manager

Title

7/19/2022

Date

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11/04/2022

4700500637P



DIVERSIFIED
energy
100 Diversified Way
Pikeville KY, 41051

47-005-00637

Plugging Map

Legend

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

1 Pit
10' W
20' L
8' D
285661



Well No.: 4700500637
 UTM83-17,Meters
 North: 415782.54
 East: 4216120.65
 Elev.: 271.34 M
 Elev.: 890 Ft

East North

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WV Department of
Environmental Protection

11/04/2022

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9/30/2022

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:

Courtney Co 11 015100 47-005-00637

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

Sincerely,

Austin Sutler
Asset Retirement Manager

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OCT 03 2022
WV Department of
Environmental Protection



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) ORDER NO. 2022-13
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

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.

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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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11/04/2022



To Whom it May Concern,

Attached is an amendment that has been submitted to Chief of the office of oil and gas of the West Virginia Department of Environmental Protection. The subject well is listed within the letter to the Chief.

Thank You.

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ERP Environmental Fund Inc.
Attn: Barry Doss
202 School Drive
Shrewsbury, WV 25015

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WV Economic Development Authority
160 Association Drive
Charleston, WV 25311

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Courtney Minerals LLC
3574 Teays Valley Road, Suite B
Hurricane, WV 25526

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HAMLIN WV
SEP 30 2022
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Kennedy, James P <james.p.kennedy@wv.gov>

Plugging permits approved 4700500928 4700500637

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Tue, Nov 1, 2022 at 2:50 PM


To: Phyllis Copley <pcopley@dgoc.com>, Austin Sutler <asutler@dgoc.com>, Terry W Urban <terry.w.urban@wv.gov>, scook@wvassessor.com


To whom it may concern, plugging permits have been approved for 4700500928 4700500637.


James Kennedy
WVDEP OOG

4 attachments

 **4700500928.pdf**
3212K

 **4700500637.pdf**
3698K

 **IR-8 4700500928.pdf**
12K

 **IR-8 4700500637.pdf**
12K

11/04/2022