

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

Thursday, August 17, 2023 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCOUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 2533 47-023-00018-00-00

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:

Farm Name: EVANS, RUTH

U.S. WELL NUMBER: 47-023-00018-00-00

Vertical Plugging

Date Issued: 8/17/2023

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.

₩W-4B Rev. 2/01

1) Date July 14	, 20 <u>23</u>
2)Operator's	
Well No. Ruth Ev	ans 1-2533
3) API Well No. 4	7- 023 - 00018

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

7) Designated Agent Chris Veazey Addres 414 Summer's St.
7) Designated Agent Chris Veazey Addres 414 Summers St. Charles te, WV 253
Addres 414 Summers St. Charlester, WV 253
Charlester, WV 25
9) Plugging Contractor Name Next LVL Energy (Diversified Owned)
Address 104 Helliport Loop Rd
Bridgeport, WV 25330
Address Diversified Production, LLC Address 414 Summers Street Charleston, WV 25301 Address Inspector to be notified Name Gayne Knilowski Address 21 Energy Way The Street To Designated Agent Chris Veazey Address 7) Designated Agent Chris Veazey Address 414 Summers Street Address 9) Plugging Contractor Name Next LVL Energy (Diversified Owned) Address 104 Helliport Loop Rd

MR-35

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

14-APT-88 API + 47- 23-00018 ... Clamin Silver

Well Orerator's Report of Well Work

Fare name: EVANS, RUTH

Operator Well No.1 2533

LOCATIONS

Elevation | 2270.00 Quadrandle: BLACKBIRD KNOB

District! UNION

County: BRANT

Latitude: 5550 Feet South of 39 Bes. 5 Hin. 0 Sec.; Londitude 3350 Feet West of 79 Des. 15 Hin. 0 Sec.

Adent! Douglas P. Terry Inspector: PHILLIP TRACY Permit Issued! 04/15/88 Well work Commenced! 10=4-88 Well work Completed! 11=3-88 Well work Completed! 11=3-88 Verbal Plussins Permission stanted on! Rotary X. Cable Ris Total Berth (feet) 8502: Fresh water depths (ft) 60'x 1307' Salt water depths (ft) 8002. Is coal being mined in area (Y/N)?	Company: EQUITABLE RESOURCES EXPLORATE	BN' INC'-				
Adent! Douglas P. Terry Inspector: PHILLIP TRACY Permit Issued! 04/15/88 Well work Commenced! 10-4-88 Well work Completed! 11-3-89 Werbal Plussins Permission strented on! Rotary X. Cable Ris Total Berth (feet) 8602' Fresh water depths (ft) 60'x 1300' Salt water depths (ft) 8008 Is coal being mined in area (Y/N)?		Casing	l Used in	l Left	Cement	i
Adent! Douglas P. Terry Inspector: PHILLIP TRACY Permit Issued! 04/15/88 Well work Commenced: 10-4-88 Well work Commenced: 11-3-88 Well work Completed: 11-3-88 Werbal Plussins Permission strented on: Rotary X. Cable Ris Total Berth (feet) 8602: 5 1/2" 8559.03 949.75 Fresh water depths (ft) 8002 5 1/2" 8559.03 949.75 Salt water depths (ft) 8002 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BUCKHANNON, UV	1 1	1	1	IFILL UP	ŧ
Inspector: PHILLIP TRACY Permit Issued: 04/15/88 Well work Commenced: 10-4-88. Well work Completed: 11-3-89 Verbal Plussins Permission stanted on: Rotary Cable Ris Total Depth (feet)8592:		1 Tubins	Drillins	(in Well	ICu. Ft.	ı
Permit Issued: 04/15/88 13 3/8" 28 28 18 18 18 18 18 18	Adenti Douglas P. Terry		 	 	-	
Well work Commenced: 10.4.88 Well work Completed: 11.3.99 Verbal Plussins Permission strented on: Rotary X. Cable Ris Total Berth (feet) 8602: Fresh water depths (ft) 60'x 1307' Salt water depths (ft) 8008 5 1/2" 8559.03 949.75	Inspector: PHILLIP TRACY	1	1	1	1	ŧ
Well work Completed: 11-3-88		13 3/0"	1 25	i28		!
Verbal Plussins Permission scented on: Rotaru_X Cable Ris Total Depth (feet) _8592'		i	1	1		i
Rotary_X Cable Ris	Verbal Plussins	8 5/8"	1510.35	1510.35	761 CF	į
Total Depth (feet) _8592') i	 	 !	1	ï
Salt water depths (ft) None	Total Beeth (feet) _8602'	5 1/2"	8559.03	0559.03	949.75 C	
Is coal being ained in area (Y/N)?		i	1 (l	ı	ŧ
	Salt water depths (ft) NOOR	!		.	! 	!
	Te one) being sined in area (Y/N)?)				i
		2 3/8"	i	6049	i	ŀ

OPEN FLOW DATA

Second producing formation_____ Pay zone depth (ft)____ Final open flow _____Bbl/d C Final open flow_____HCF/d Time of oren flow between initial and final tests_____Hours 7
Btatic rock Pressure____Hours 2

**Buttic rock Pressure | Butter |

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED SINTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL TOO WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, STINCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Fort	EQUITABLE RESOURCES EXPLORATION	INC.
	But Douglas P. Serry Port	P. June
	Date: _ 8901 10, 1989	Z

08/25/2023

11/12/88 - Halliburton acidized with 2000 gallons 5% Fe Acid, RTTS Packer set @ 7659'.

2/1/89 - Halliburton frac'ted with 200,000 lbs. 20/40 mand, 13,200 lbs. 60/100 mand 210,000 Seft N2.
Perforations: 7929' - 8010', Oristany Sandstons.

Harrell Shale	6714'
Upper Marcellus	7526'
Purcell	7 54 7 •
Lower Marcellus	7615'
Tioga Metabentonite	7661.¹
Needmore	7683'
Oriskany Sandstone	7795'
Helderberg L.S.	8016'
Shriver Chert	6196'
Mandata Shale	6243'
Corriganville	8262'
Keyser Group	8346 ta TD 8602'

75-3

Plug & Abandon

County/State: GRANT, WV Township: UNION
Latitude: 39.0682297146 Longitude: -79.2615516829 (NAD 83)
API: 4702300018

Summary

The RUTH EVANS 1-2533 will be plugged and abandoned. The well is located in GRANT County, WV and was spud on 10-05-1988 by UNKNOWN, targeting the Oriskany as a Vertical well. The last known production date for this well was December of 2012 where it averaged 45 MCF, 0 BO, and 0 BW.

The Ruth Evans 1-2533 is a vertical well that was drilled and completed in the Oriskany with perforations from 7,929' to 8,010'. Unknown information includes: casing/tubing weight and grades, drilled hole sizes, and top of cement. All information pertaining to these unknown parameters in the proceeding P&A packet are assumed and/or estimated values.

Guideline

Step

Operation

The content of this guideline are recommendations based on expected conditions, current equipment, and existing design. Should actual conditions vary from expected, discuss with your supervisor and all necessary personnel on how to proceed.

Pre-Job Safety Meeting

- Safety is the highest priority.
- b. 2 active barriers must be maintained at all times in accordance with OGB-CHK-STD-001 Barrier Standard.
- c. Ensure gas monitoring equipment is being utilized on location.
- d. Remind all personnel that everyone has Stop Work Authority.
- e. Before each shift/day or new scope of work:
 - Hold well-site safety meetings covering the scope of work with all personnel on location.
 - Review guideline and discuss critical parameters (pressures, volumes, contingency plans, etc.).
 - Verify that all personnel understand and are prepared for the operation.
 - Review emergency action plans for the operation.

Glossary: QHB = Qualified Hydrostatic Barrier, BPV = Back Pressure Valve, TIW = Full Open Safety Valve (Equal ID to Work String), TWC = Two Way Check

1 Prior to rig arriving on site:

- a. Make sure all casing valves are readily accessible and remove water from cellar.
- b. Perform 72-hour pressure build up test on all annuli.
- Perform negative pressure test on master valve(s) in accordance with APP Master Valve Operational Guideline PROD-APP-002.
- c. Make sure A, B, and C section flanges are properly identified.
- d. Verify regulatory permit and approval to plug and abandon.
- e. Notify WVDEP, BLM, municipality and surface landowner 1 week prior to commencing operations.

2 RU Containment.

- 3 MIRU WOR, pump, and surface equipment.
- Pump FW until a Qualified Hydrostatic Barrier (QHB) is established. Ensure pump is rigged up and ready to pump kill weight fluid for duration of job.
 - a. Contact supervisor and OKC engineer if higher weight kill fluid is required.

	· Occurs when pumped FW volume equals or exceeds casing + tubing (if applicable) volume to top perf depth and well
	pressure exceeds 0 psi and/or well does not pass a flow check. SKIP TO STEP 11 IF WELL DOES NOT HAVE TUBING - Contact supervisor and OKC engineer if well does not have a tubing hanger.
5	
	NU lubricator to closed master valve and pressure test.
	a. Flow Paths:
	• 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = Master Valve
	• 5.5 Casing — 1st Barrier = QHB, 2nd Barrier = Master Valve
6	Bleed off test pressure, open master valve, and install BPV in tubing hanger. Contact engineer and prepare to set pump through
	plug in tubing with SL, if BPV cannot be installed in hanger.
	a. Flow Paths:
	Tubing — 1st Barrier = QHB, 2nd Barrier = Lubricator
	· Casing — 1st Barrier = QHB, 2nd Barrier = Tubing Hanger
	ND lubricator, ND wellhead, NU 7.0625" master valve and NU double 7.0625" BOPs (Top to Bottom: 2.375" Pipe Ram and Blind
	Ram). Stab landing joint in tubing hanger. Close pipe ram and pressure test stack against tubing hanger in accordance with CHK
7	Workover and Completions BOP Manual (outlined in section 2.6). LD landing joint, close master valve and blind ram. Pressure test
	blind ram against master valve in accordance with CHK Workover and Completions BOP Manual (outlined in section 2.6).
	Dino ram against master valve in accordance with this workover and completions so white the completions of the completion of
	a. Flow Paths:
	 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = BPV
	5.5 Casing — 1st Barrier = QHB, 2nd Barrier = Tubing Hanger
8	NU lubricator and pressure test against master valve. Bleed off test pressure, open master valve and pull BPV.
	a. Flow Paths:
	 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = BPV (NU), 2nd Barrier = Lubricator (Pull BPV)
	• 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = Tubing Hanger
9	Close Blind Ram and ND lubricator
	a. Flow Paths:
	· 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = Blind Ram
	• 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = Tubing Hanger
10	MU lifting sub into tubing hanger. Unscrew tubing lockdown pins and LD tubing hanger. POOH with tubing while standing back.
	a. Flow Paths:
	· 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = TIW
	5.5 Casing — 1st Barrier = QHB, 2nd Barrier = Pipe Ram
-	SKIP TO THIS STEP IF WELL DID NOT HAVE TUBING - Close master valve. NU WL packoff and pressure test against master valve. RU
11	WL.
_	a. Flow Paths:
	• 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = Master Valve
	8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips, 3rd Barrier = Master Valve
	Plug #1 (CIBP Perf Isolation) - TIH with WL and set CIBP as specified under Plug Details table in accordance with Plug 1. Use a CCL
	to ensure the CIBP is not set in a collar. TOOH with WL. Pressure test CIBP to 1,500 psi or 80% of casing burst pressure accounting
12	B
	for hydrostatic to CIBP depth, which ever is less.
	a. Flow Paths: • 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = WL Packoff
	8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips, 3rd Barrier = WL Packoff
13	ND WL packoff, RD and release WL.
	a. Flow Paths:
	• 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = CIBP
	 8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips ND double 7.0625" BOPs (if applicable), master valve, and necessary wellhead equipment to expose casing slips. Establish hot
	IND double 7.0025 BOP'S (if applicable), master valve, and necessary wellnesd equipment to expose casing sips, establishment
14	work permit and tac weld casing slips to casing. Ensure thorough LEL monitoring is in place, fire extinguishers are near wellhead,
	and fire watch is designated as outlined by hot work permit.
	a. Flow Paths:
	5.5 Casing – 1st Barrier = QHB, 2nd Barrier = CIBP Control of the Control of Control of Control of Cities Control of the Control of Control of Cities of C
	8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips 8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips 8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips
15	NU double 11" BOPs (Top to Bottom: 2.375" Pipe Ram and Blind Ram) and 11" annular BOP. Test each ram against the CIBP in
	accordance with CHK Workover and Completions BOP Manual (outlined in section 2.6).

	a. Flow Paths:
	• 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = CIBP
	8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips
-	
	Plug #2 (Cement Perf Isolation) - TIH with work string to bottom depth of Plug 2 as specified under the Plug Details table. Pump
16	Spacer 1 as detailed under the Spacer Details table. Pump balanced cement plug in accordance with Plug 2. Displace tubing with
	volume specified on Plug Details table. POOH with WS. WOC 8 hours.
	a. Flow Paths:
	 2.375 Tubing — 1st Barrier = QHB, 2nd Barrier = CIBP, 3rd Barrier = TIW
	· 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = CIBP, 3rd Barrier = Pipe Rams
17	NU WL packoff. RU WL.
	a. Flow Paths:
	 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = CIBP, 3rd Barrier = Cement Plug
	8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips
18	RIH with CBL, POOH with WL and discuss results with key stakeholders.
	a. Flow Paths:
	 5.5 Casing — 1st Barrier = QHB, 2nd Barrier = CIBP, 3rd Barrier = Cement Plug, 4th Barrier = WL Packoff (untested)
	Self-
	 8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips, 3rd Barrier = WL Packoff (untested)
40	Pressure test WL Packoff against cement plug to 500 psi. Ok testing against cement due to CIBP below. RIH with jet cutter and cut
19	csg at TOC as determined by CBL. POOH with WL.
	a. Flow Paths:
	 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = WL Packoff
	8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips, 3rd Barrier = WL Packoff
20	Close blind ram. RD WL. Verify good cut before releasing WL by attempting to establish circulation.
	a. Flow Paths:
	 5.5 Casing – 1st Barrier = QHB, 2nd Barrier = Blind Ram
	8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips, 3rd Barrier = Blind Ram
21	NU casing jacks (if applicable), MU casing spear, and open blind ram. Spear casing, LD slips and spear.
	a. Flow Paths:
	· 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = TIW
	 5.5 Casing — 1st Barrier = QHB, 2nd Barrier = Blind Ram (Csg Jack NU), 2nd Barrier = Pipe Ram (Spear)
	 8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Csg Head/Slips (Csg Jack NU), 2nd Barrier = Pipe Ram (Spear)
22	POOH with production casing.
	a. Flow Paths:
	5.5 Casing 1st Barrier = QHB, 2nd Barrier = Swage Nipple w/ Ball Valve
	8.625 Casing — 1st Barrier = QHB, 2nd Barrier = Annular
	Plug #3 (Prod Csg Stub Plug) - TIH with work string to bottom depth of Plug 3 as specified under the Plug Details table. Pump
23	Spacer 2 as detailed under the Spacer Details table. Pump balanced cement plug in accordance with Plug 3. Displace tubing with
	volume specified on Plug Details table. POOH 1,500' above estimated TOC. Close pipe ram. WOC 8 hours.
	a. Flow Paths:
	· 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = TIW
	· 8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Pipe Rams
	Plug #5 (Inter Csg Shoe Plug) - TIH with work string and tag TOC. PU to bottom depth of Plug 5 as specified under the Plug Details
25	table. Pump Spacer 4 as detailed under the Spacer Details table. Pump balanced cement plug in accordance with Plug 5. Displace
	tubing with volume specified on Plug Details table. PU a minimum of 500' above estimated TOC. Close pipe ram and WOC 8 hrs.
	a. Flow Paths:
	 2.375 Tubing – 1st Barrier = QHB, 2nd Barrier = TIW
	• 8.625 Casing – 1st Barrier = QHB, 2nd Barrier = Pipe Rams
	Plug #6 (Surface Plug) - TIH with work string and tag TOC. PU to bottom depth of Plug 6 as specified under the Plug Details table.
26	Pump balanced cement plug in accordance with Plug 6. Displace tubing with volume specified on Plug Details table. POOH.
	Close blind ram. WOC 8 hours.
	a. Flow Paths:
	The state of the s

ļ	• Tubing – 1st Barrier = QHB, 2nd Barrier = TIW
1	KOP Casing — 1st Barrier = QHB, 2nd Barrier = Pipe Ram
27	RDMO.
28	Monitor well for 24 hrs minimum.
29	Establish hot work permit. Perform LEL assessment of well head and ensure LEL monitoring remains in place. Contact supervisor and OKC engineer if LELs are registered. Place fire extinguishers near wellhead and ensure fire watch is designated as outlined by hot work permit. Cut casing and weld abandonment cap with monument as specified by WVOEP.
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Gayne Digitally signed by Gayne Knitowski Date: 2023.07.17 09:31:35-04/00'

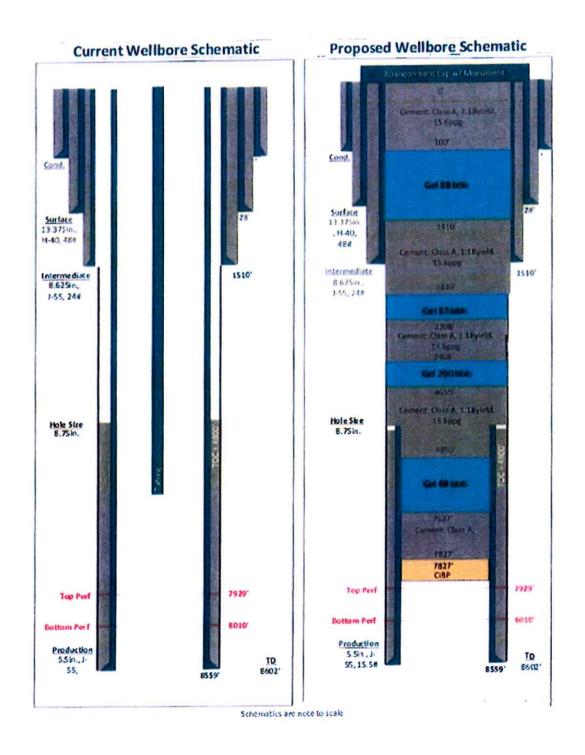
Plugging Proposal

TE HOL	Service in					Plug D	etails						1
.	Type	Cearlption	Set D	Paug Holgin (ft)	Bottom of Plug (ft KB)	Ph.c (fax)	Cement Type	Coment York	Coment Density (appl	Conent (%)	Coment Volume (bbi)	Volume (sa dx)	Tubing Chaplacement Volume (bbls)
,	CIEP	CIEPPerlimaton	4%	2	7,829	7,627	NA	NIA	N/A	NA	NA	NA	NA
1	Comert	Coment Part Isolation	4.95	200	7,827	7,627	CracsA	1.10	15.6	0	45	22.7	29.3
,	Corners	Prod Cog Stub Plug (habbe Cog)	426	50	4 850	4800	CanA	1 13	156	0	12	57	17.0
I foon I	Comme	Prod Cag Stub Plug (Open Hale)	875	150	4 900	4,550	Com A	1.15	156	20	13.4	637	00
4	Comera	Fevaltin Plug (Open Hole)	875	200	2,439	2,200	Class A	1.18	15.6	30	17.9	84.9	8.3
5	Corners	(Open Hole)	8.75	100	1,510	1,510	Class A	1.15	15.6	20	8.9	45	52
s (con.)	Correct	Sufficig Sibe Plug (Felib Cog)	8 097	100	1510	1,410	Class A	1 19	156	0	64	333	0.0
6	Correct	SubtoFug	8.097	100	100	0	Cath	1.15	15.6	0	64	30 3	0.4

			Spacer	Details				
,	Fluid Type	Description	SetiD	Spacer Height	Specer Density (ope)	Spacer Viscosity (cp)	Excess Spacer (N)	Spiker Volume (bbs)
1	Gel	Port Ediation to Fred Csg St.b Plug	495	2,777	9	·	3	93.4
,	Ger	Frod Csg Stub Pup to	875	2242	9		20	200.1
3	Gel	Elevation Rug to 14 or Cag Shoe Plug	875	598	9		20	53 4
	Gei	Surtan Pug	8 097	1,310	9	<u> </u>	5	87.6

Estimated	Casing Cuts
Sotne	Est Out Depth (ftX3)
Intermediate	
Production	4,500

	XB:	10	Top Peri	7,929	Perf Interval Length	[81]	P810	8,559		
	КОР	(N/A)	Bottom : Perf	8,010	10	8,602	Elevation	2,308		
				Ca	sing Deta	ls				
String	Grade	00	io;	Weight	Orift	Top (ftK8)	Bottom (ftKB)	(bbl/ft)	Tot. Cap.	Hole Siz
Conductor		1,,,,,,,	1	,,,,,	/********		,			
Surface	H-40	13.375		48	12.559	135	*******	0.157053842	4.4	
Intermediate	1-55	:8625	-	24	7972	137	1,510	0.063688954	208.7	8.75
Production	J-55	5.5	4.95	15.5	:4.825	(8)	8,559	0.025502701	. 200.7	30.73
Production : DV Tool :		-	-	-	-					
				,,,,,						
				Tu	bing Deta	ils				,
Component	Grade :	Weight	00	io;	Length (ft)	Top (ftX8)	Bottom (ftKB)	Burst 80%	Capacity (bbVft)	Tot Cal
Tubing:	1-55	5	2.375	1.995	8,049	10	8,059			: 31
		-								
		1								
		+			 					
			1	1		1	1			1



WW-4A Revised 6-07

1) Date: 7/14/20				
2) Operator's Well Numb	ber Ruth Ev	ans 1	-2533	

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

4) Surface Own	er(s) to be served:	5) (a) Coal Operato	r	
(a) Name	Golden E. Evans	Name		
Address	2143 Jordan Run Rd	Address		
	Maysville, WV 26833			
(b) Name	USA Forest Service	(b) Coal O	wner(s) with Declaration	
Address	PO Box 1548	Name	Golden E. Evans	
Address	Elkins, WV 26241	Address	2143 Jordan Run Rd.	
	LIKIIIS, VV V ZOZAT		Maysville, WV 26833	
(a) Nama		Name	USA Forest Service	
(c) Name Address		Address	PO Box 1548	
Address	-		Elkins, WV 26241	
		(a) Cool I	essee with Declaration	
6) Inspector	Gayne Knitowski		ssee with Deciaration	
Address	21 Energy Way	Name		
	Gormania, WV 2672) Address		
Telephone	(304) 546-8171			
Take notice accompany Protection, the Applica	that under Chapter 22-6 of the Wes	at all. t Virginia Code, the undersigned we not abandon a well with the Chief of on described on the attached Applied by registered or certified mail or or the control of	Il operator proposes to file or has filed this the Office of Oil and Gas, West Virginia D tion and depicted on the attached Form W lelivered by hand to the person(s) named	Notice and Application and epartment of Environmental W-6. Copies of this Notice,
	Well By: Its: Add		pervisor Street	
		Charleston, W		
	Tele	phone 304-590-7707		formamment
Subscribed and	sworn before me this	4th day of July	2023 Notary R	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA SANOTA L. MOSSO!

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 depprivacyoffier@wv.gov.



7/14/2023

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:

47-023-00018 Well Name Ruth Evans 1-2533

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

Sincerely,

Chris Veazey Permitting Supervisor 304-590-7707



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

- 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.
- 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.

 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 monogramed 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 Oll and Gas

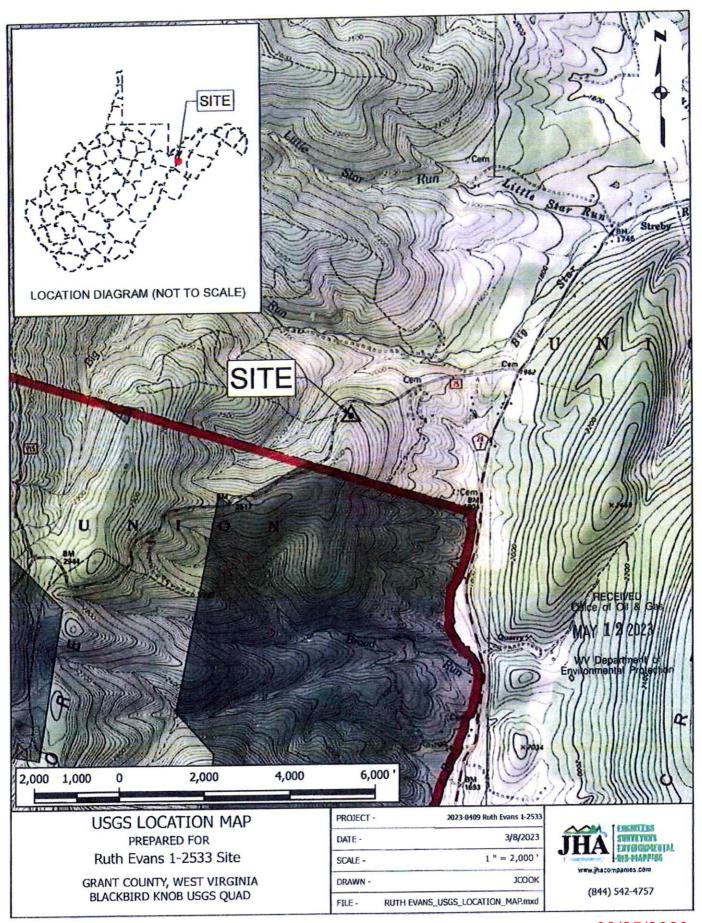
API Number	47 - 023	_ 00018	
Operator's Wo	ll No. Ruth	Evans 1-2533	

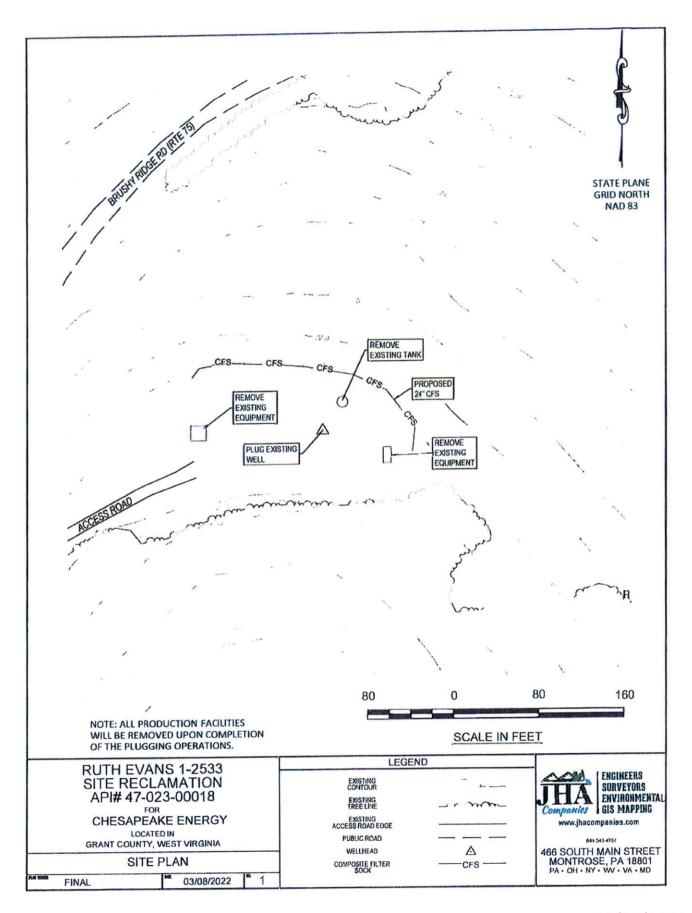
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: Diversified Production, LLC	OP Code 494524121
	Quadrangle Blackbird Knob
Do you anticipate using more than 5,000 bbls of water to	will a pit be used? Yes No
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 pro * Underground Injection (UIC Per Reuse (at API Number Off Site Disposal (Supply form to the Captain)	WW-9 for disposal location)
Will closed loop systembe used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and horiz	zontal)? 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, remove	ved 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 at West Virginia solid waste facility. The notice shall be provisivhere it was properly disposed.	nd Gas of any load of drill cuttings or associated waste rejected at any ided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, based the information, I believe that the information is true, acc submitting false information, including the possibility of firm	and conditions of the GENERAL WATER POLLUTION PERMIT issued to Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable law mally examined and am familiar with the information submitted on this don my inquiry of those individuals immediately responsible for o btaining curate, and complete. I am aware that there are significant penalties for ne or imprisonment.
Company Official Signature	The state of the s
Company Official (Typed Name) Chris Veazey	
Company Official Title Permitting Supervisor	
Subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and sworn before me this 14th day of the subscribed and	Not ary Public STATE OF WEST VIRGINIA Sandra L Mosser 2417 Juhan Rd. Juhan Wy 2582

roposed Revegetation T	reatment: Acres Disturbed +/- 1 a	c. Preveg etation p)H
Lime3	Tons/acre or to correct to	pH6.5	
Fertilizer type	10-20-20 or Equivalent		
	int	_lbs/acre	
Mulch2	Γ	ons/acre	
		Seed Mixtures	
	Temporary	Pe	rmanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alside Clover	5
Annual Rye	15		
\ttach:			a desire a thin in to have h
Maps(s) of road, location or ideal.	on, pit and proposed area for land a n the pit will be land applied, prov	application (unless engineered plans in	ncluding this info have be s (L, W, D) of the pil, and
Maps(s) of road, location frowided). If water from L, W), and area in acre	nit and ampaced area for land a	application (unless engineered plans in ide water volume, include dimensions	ncluding this info have be s (L, W, D) of the pit, and
Maps(s) of road, location frowided). If water from L, W), and area in acre	on, pit and proposed area for land a n the pit will be land applied, proves, of the land application area. involved 7.5' topographic sheet.	application (unless engineered plans in ide water volume, include dimensions	ncluding this info have be s (L, W, D) of the pit, and
Maps(s) of road, location frowided). If water from L, W), and area in acre	on, pit and proposed area for land and the pit will be land applied, proves, of the land application area. involved 7.5' topographic sheet.	application (unless engineered plans in ide water volume, include dimensions	(L, W, D) of the pit, and
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West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL LUC	ATION FORM. OF S
_{API:} 47-023-00018	WELL NO.: Ruth Evans 1-2533
FARM NAME: Ruth Evans	
RESPONSIBLE PARTY NAME:	Diversified Production, LLC
COUNTY: Grant	DISTRICT: Union
QUADRANGLE: Blackbird K	(nob
SURFACE OWNER: Golden E	E. Evans
ROYALTY OWNER: Golden	E. Evans
UTM GPS NORTHING: 432578	86.379
UTM GPS EASTING: 650395.	403 GPS ELEVATION: 2290'
preparing a new well location plat for above well. The Office of Oil and Gas the following requirements:	meters
Real-Tir	ne DifferentialX
Mapping Grade GPS X : Post I	Processed Differential Time Differential
4. Letter size copy of the to I the undersigned, hereby certify this	pography map showing the well location. data is correct to the best of my knowledge and equired by law and the regulations issued and as. Chris Veazey - Permitting Supervisor
Signature	Title / Date/

API No.	47-023-00018
Farm Name	Ruth Evans
Well No.	Ruth Evans 1-2533

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 then 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.

	WAIVER	
has avamined this proposed philoging	/ owner / lessee / of the coal under this well located vork order. The undersigned has no objection to the work proposed the located operator has complied with all applicable requirements of the various.	to be
Date:		
	Ву:	
	Its	

SURFACE OWNER WAIVER

Operator's Well Number

Ruth Evan	s 1-2533	
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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

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:

- The proposed well work will constitute a hazard to the safety of persons.
- The soil erosion and sediment control plan is not adequate or effective;
- Damage would occur to publicly owned lands or resources;
- 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 a permit being issued on FOR EXECUTION BY A NATURAL ETC.	those materials.	ne planned wor		naterials, and I have no
	Date	Name .		
Signature		By		
		Its		Date
~			C:t	Doto

Signature

Date

11/10/2016

PLUGGING PERMIT CHECKLIST 47-023-00018

Plugging Permit
WW-4B WW-4B signed by inspector WW-4A
SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED MAIL
COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS OF PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL WW-9 PAGE 1 (NOTARIZED)
WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
WW-9 GPP PAGE 1 and 2 if well effluent will be land applied RECENT MYLAR PLAT OR WW-7
WELL RECORDS/COMPLETION REPORT TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
MUST HAVE VALID BOND IN OPERATOR'S NAME CHECK FOR \$100 IF PIT IS USED
CHECK FOR \$250 IF FIT IS USED



July 14, 2023

Gayne Knitowski 21 Energy Way Gormania, WV 26720

Mr. Knitowski,

Please find enclosed a Permit Application to plug API# 47-023-00018, in Grant County, WV.

If you have any questions, comments, or if you require additional information, please feel free to contact me at 304-590-7707.

Thank You,

Chris Veazey
Chris Veazey
Permitting Supervisor

Diversified Energy Company

414 Summers St. Charleston, WV 25301 (304) 590-7707

Email: cveazey@dgoc.com



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

plugging permit issued 4702300018

1 message

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

Thu, Aug 17, 2023 at 9:55 AM

To: Chris Veazey < CVeazey@dgoc.com>, "jours@assessor.state.wv.us" < jours@assessor.state.wv.us>, Gayne J Knitowski < gayne.j.knitowski@wv.gov>, Austin Sutler < asutler@nextlvlenergy.com>, Phyllis Copley < pcopley@dgoc.com>

To whom it may concern, a plugging permit has been issued for 4702300018.

James Kennedy

WVDEP OOG

4702300018.pdf 3482K