



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, November 6, 2023
WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

WEST VIRGINIA LAND RESOURCES, INC. 46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for SC4A 47-103-02303-00-00

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: SC4A

Farm Name: SLEETH, MIKE

U.S. WELL NUMBER: 47-103-02303-00-00

Coal Bed Methane Well Plugging
Date Issued: 11/6/2023

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit</u> 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.

1) Date S	EPTEMBER 1	1 , 20	23
2) Operati			
Well N	ο.	SC-4A	
31API We.	11 No. 47	1111	PC 3023

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

) Location: Ele				OF WEST VIRGINIA FORK OF FISH CREE
Dis	strict CHUR	RCH	County WETZEL	Quadrangle HUNDRED W.VA,I
We_l Operator			7)Designated Age	nt DAVID RODDY
Address	1 BRIDGE STREE		Addre	ss 1 BRIDGE STREET
	MONONGAH, W	V 26554		MONONGAH, WV 26554
			9)Plugging Contr	actor
	EPHEN E. MCC		Name	
	16 INDIAN CRE		Address	
JAC	KSONBURG, W	V 26377		
) Work Order: T	he work order f	for the mann	-	is well is as follows:
	the work order f	for the mann	mption	RECCUL
) work Order: T	the work order for the stand MSHA	for the mann 101-C Exe D# 46-0143	mption 33)	
See Exhibit No.	the work order for the work order for the more of the	tor the mann 101-C Exe D# 46-0143 016-017-C	mption	RECEIVED Office of Oil and Gas
Nork Order: T See Exhibit No. Marion County MSHA 101-C D	the work order for the work order for the second se	tor the mann 101-C Exe D# 46-0143 016-017-C n = 1254.33	mption 33)	RECEIVED Office of Oil and Gas OCT 1 8 2023

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

Work order approved by inspector

Stephen Mccoy Digitally signed by Stephen Mccoy Date: 2023.10.13 21:37:09 -04'00'

Date

Exhibit Number 1

West Virginia Land Resource will utilize the following methods to plug CBM wells. CBM wells are a directionally drilled well with horizontal wellbores through the Pittsburgh coal seam. The well bores through the coal will be water infused for first intersection of the laterals. Then the lateral system will be filled with either cement/grout or a polymer Gel. The vertical wellbore will be cleaned out to the total depth or attainable bottom (PBTD). The well sump, 7" casing, and packer will be pulled if possible. This proposed method of plugging the wellbore will apply to that portion of the wellbore from the top of the coal seam to be mined to the surface. All Casings will be removed and at no time will more than a single string be left in the wellbore.

All Casing will be removed so that only a single string will be left in the wellbore, if it cannot be removed. A borehole survey will be conducted to determine the top and bottom of the coal seam to be mined. In addition, starting at a point 5' below through 5' the coal to be mined, any metal casing shall be ripped, cut or perforated on no greater than 5' interval. Before or after mine through this well will be plugged with cement to the surface from a point at or above the Pittsburgh Coal with a solid plug.

> RECEIVEL Office of Oil and Gas $w_{VDepa_{lime_{h_{ij}}}}$ Environmental Protection

9/7/23, 5:10 AM

 Location
 Owner/Completion
 Pay/Show/Water Select datatypes: Select County: (103) Wetzel Reset Enter Permit #: 2302 Get Data

200 Sample Brn Hole Btm Hole Stratigraphy Logs Production

Report Time Thursday, September 07, 2023 5:08:17 AM

MV Geological & Economic Survey:

Well: County = 103 Permit = 2302 Link to all digital records for well

Location Information: <u>View Mag</u> API COUNTY PERMIT 1AX DISTRICT QUAD 75 QUAD 15 LAT DD LON DD UTME UTMN 4710302302 Weizel 2302 Church Hundred Mannington 39.663124 -80.414013 550264 8 4390532 4 There is no Bottom Hole Location data for this well

Owner Information

APP CMP_DT SUFFIX STATUS SURFACE_DWHER WELL_MUM CO_NUM LEASE LEASE_NUM KINERAL_OWN OPERATOR AT COMPLETION PROP_VD PROP_IRGI_FM TFM_EST_PR_ AT 0.302302 2/3/2008 Organia Loc Completed Mive Steeth SC4

TND NEW_FTG KOD G_BEF G_AFT O_BEF O_AFT NGL_BEF NGL_AFT P_BEF T_BEF P_AFT TI_

G BEF G AFT O BEF O AFT WATER GNTY DEPTH_BOT FM_BOT 300 Pennsylvanian System 1108 Pittsburgh coal 1102 Pittsburgh coal Pay/Show/Water Information:

APP APP CAPTUTY PRODUCT SECTION DEPTH_TOP FM_TOP
47103023 2327008 Weter Fresh Weter Vertical 1102 Pittsburgh
4710302302 2322008 Methane Pay Gas Vertical 1102 Pittsburgh

ATOR PRD	J YEAR	ANN GAS	JAM	FER	MAR	APE	MAN	II IM	1111	Allo	033	10.7	1	100
É		TR RON	3	200	2 452	4 000	4 070	2 780	2000		2000	3	2	3
	2 6	20.00		202	200	4.000	200	3.730	3,900	4.505	3.486	7.		3.788
(In	2003	43,840	7	3.228	3,999	3,930	3.932	3.788	3.703	3.419	3 520			7 Ran
4	2010	39 434	1007	2685	7 440	2022	3 461	2204	2 304	2 300	2 4 4 5	00		200
,	100	0 0		3	200	3	2,40	2,504	2.23	2.503	3.10	7		2.00
ů	1102	22,082	7	1.927	2,081	1,917	1.881	1.842	1.851	1.828	1.680			1681
-	2012	18,980	1.852	1.581	1.613	1.385	1 594	1 531	1 520	1 613	1 815			1 822
_	2012	47 004	*	4 300	200	2000								055
	2012	17,021	1	38.	1.307	1,35/	400.	016.	1.497	462	1,329			1.461
	2014	16,579	1,244	1,179	1.244	1.257	1.466	1.201	1.487	1,510	1534			1 468
	2015	15 135	1 374	1 195	1 147	1 077	1 200	1 303	* 433	17.	. 24.4			
	0000						2000	700	136		1.5444			.0.1
	4016	14,757	1.438	1.274	1,339	1,195	1,291	1.230	1.207	1.236	1.014			1306
	2017	13,650	1,188	1.171	1,162	625	928	1 083	1 226	300	1 228	22		4 RAD
	2018	7 641	1 410	4 330	4 44.0	020	073	200	1	200	200			0.00
	2010	5	2	677	711.	9/9	240	4/6	85	458	458			20
	2019	758	22	99	418	37	31	55	88	80	17	25	43	C
	2020	•	•	0	•	<	•			•		1	2 1	9 1
	200		•	9	0	>	>	>	>	0	0	0	0	0
	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	0	c	C	•	<	•	9	C	•	•			

Environmental Protection

io memheqed VW

OC1 1 8 5053

Office of Oil and Gas RECEIVED

4710302302 CNX GBS CO. LLC (North)

AMN MGL in Bbl)

00000

Production NGL Information: (Volumes in PRODUCHIG OPERATOR PRD_VI 4710302302 CNX Gas Co. L.C (Newf) 47103023

DCM Š 0000 OCT AUG JUL NO PRODUCING OPERATOR PRE PRODUCING OPERATOR PRE PRODUCING OPERATOR PRE PRODUCING GROUND (CHORT) PROGUCING GROUND (CHORT) ND302302 CNX GRS CO. LLC (NewTI) PRODUCING OPERATOR P 2 CNX Gas Co. LLC (North) 2 CNX Gas Co. LLC (North)

0000

www.wvgs.wvnet.edu/oginfo/pipeline/pipeline2.asp?txtsearchapi=4710302302

"Pipeline" 3

Production
Stratigraphy
Logs (Check All) Location

Owner/Completion Pay/Show/Water Select datatypes Select County (103) Wetzel Reset Enter Permit #: 2303 Get Data

Table Describbons
County Code Translations
Penni-Mumbering Series
Usago, Notes
Contact Information Semple Bum Hole Loc Report Time: Friday, September 08, 2023 4:35 42 AM

MV Gealogical & Economic Survey

Well: County = 103 Permit = 2303 Link to all digital records for well

n. VIEW Map. PERMIT TAX DISTRICT QUAD_75 QUAD_15 LAT DD LON DO UTALE UTMN 2303 Church Hundred Mannagion 39,651964 -80,413824 5,50281,8, 4390403.8 API COUNTY P API COUNTY 4710302303 Weizel

There is no Bottom Mole Location data for this well

TMD WEW FTG KOD G_BEF G_AFT O_BEF O_AFT NGL_BEF NGL_AFT P_BEF P_AFT TI_AFT B Owner Information:
APP
CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE_LEASE_NUM MINERAL_OWN OPERATOR_AI_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
4710302303 2327008 Ordinal Lec Completed Mine Sheeth
SCAA
CNX Ges Co_LLC (North) CMP_MTHD TVD Completion Information:

AP CAP CAP DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MT

4710302303_202008_11082006_1255_Ground Level Burton Pritaburgh coal Pritaburgh coal Development Well Development Well Development Well Methane (CBM), Rotany unknown

Comment: 2/3/2008 NO open flow data reported

G_BEF G_AFT O_BEF O_AFT WATER GNTY DEPTH_BOT FM_BOT 300 Pennay/vanian System 1106 Pittsburgh cost 1102 Pittsburgh coal Pay/Show/Water Information:
API
CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FM_TOP
47*0302303 2/3/2008 Weter
Freah Winter Venical 1102 Pittsburgh
47*10302303 2/3/2008 Methane Pay Gas Venical 1102 Pittsburgh

SEP MAR

Production Gas Information; (Volumes in Mcf)

479

4710302330 CNX Gas Co...LC (Norm)

4710302330 CNX Gas Co...LC (Norm)

4710302303 CNX Gas Co...LC (Norm)

4710302303 CNX Gas Co...LC (Norm)

7020

4710302303 CNX Gas Co...LC (Norm)

7020

4710302303 CNX Gas Co...LC (Norm)

7021

7022

PRD YEAR ANN OIL . 2018 0 2020 0 2021 0 2022 Production Oil Information: (Volumes in Bbl) API 9002303 PRODUCING_OPEA/TOR PI 4710302303 CNK Gas Co. LLC (Nearn) 4710302303 CNK Gas Co. LLC (Nearn)

ANN NGL | Production NGL Information: (Volumes in Bb) | NAT |
APP	PRODUCING OPERATOR PRO_YEAR ANN
471830233 CNX Gas O. LLC (Nown)	2018
4718302330 CNX Gas O. LLC (Nown)	2019
4718302330 CNX Gas O. LLC (Nown)	2020
4718302303 CNX Gas O. LLC (Nown)	2021
4719302303 CNX Gas CO. LLC (Nown)	2021
4719302303 CNX Gas CO. LLC (Nown)	2021
4719302303 CNX Gas CO. LLC (Nown)	2021
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas CO. LLC (Nown)	2022
4719302303 CNX Gas	

JAN Production Water Information: (Volumes in Gallons)

APP
REDUCING OPERATOR PRD_YEAR ANN_WYR.
4710302303 CHX Gas Co. LLC (Newr)

FM QUALITY DEPTH TOP DEPTH QUALITY THICKNESS THICKNESS QUALITY ELEV DATUM
Well Record 1005 Reasonable 1255 Ground Level
Well Record 1102 Reasonable 6 Reasonable 1255 Ground Level Stratigraphy Information:
API SUFFIX FM
4710302303 Original Loc unidentified coal
4710302303 Original Loc Pittsburgh coal

Wireline (E-Log) Information

There is no Scanned/Raster Log data for this well

* There is no Scanned or Digital Logs available for download There is no Digitized/LAS Log data for this well

There is no Plugging data for this well

11/10/2023

There is no Sample data for this well

RECEIVED Office of Oil and Gas OCT 1 8 2023

WV Department or Environmental Protection WVGES Home Contact Us Disclaimer

Pipeline-Plus

West Virginia

"Geology underlies it all."

About - Interactive Mapping - Oli&Gas Well Header Data Search - "Pipeline" - File Repositories - Digital Records Search - Slabbed Core Photos

Geological & Economic Survey

Oil & Gas Well Header Data Search

	API #: 4710302303	D	Well Type	>
0	County	,	Total Vertical Depth TVD(ft) >=	
7.5 Minute Quad;	Quad:	>	Completion Year =	
Scanned Log Type	Type	>	Operator at Completion (contains).	minimum 3 characters if searching
Scanned Log Bottom (ft) >=	(ft) >=		Last Producing Operator (contains):	minimum 3 characters if searching
has Scanned Log(s):	(s).6o-		Surface Owner (contains).	minimum 3 characters if searching
has Digitized Log(s):	.og(s):		Field Name (contains):	minimum 3 characters if searching
has Sample Desc Scan.	Scan.		Company Number (contains).	minimum 3 characters if searching
as Slabbed Core Photo(s):	oto(s):		Mineral Owner (contains):	
Horizontal/Deviated Well	Well .		0	
Results	Results/Page 100 -		Please enter or select criteria to perform database search. The application uses	stabase search. The application uses
Ord	Order By: API	>	an "and" operator between search fields. Searches will not be performed if the required field criteria is not met. Error messages are indicated in RED.	searches will not be performed if the
S	Search Reset			

Log Suffix Btm Suffix Files County DD Long DD Let UTME UTMN 7.5 Tax Scanned Das Wetzel -80.413824 39.061964 550281.8 4390403.8 Hundred Church Pipeline Wap ELog DLog Files County DD Long DD Let UTME UTMN ALDER Meres -80.413824 39.661964 550291.8 4390403.8 1 Records Found, showing page 1 of 1 at 100 records per page

4710302303 ALDer

API#

Comp Well Type Operator at Last Producing Surface
Year Completion Operator Operator
2008 Methane (CBM) CNX Gas Co. LLC (North) Mike Steeth Original Location Completed Status

Well Comp Mineral Unit/I

RECEIVED
Office of Oil and Gas OCT 1 8 2023 WV Department of Environmental Protection

DATE: <u>4/28/2008</u> API#: <u>47-10302303</u>

S	state of We	st Virginia	
		nmental Pr	otection
	Office of O		
Well Ope	crator's Rep	ort of Well	Work

Farm name; Sleeth Mike	Ор	erator Well No	.: SC-4 Ace	
LOCATION: Elevation: 1255'			undred	
District: Church Latitude: 39 Peet So Longitude: 80 Feet West of	Co	unty: Wetzel		
Lauringe: 39 Feet Sc	outh of 40	Deg00	Min0	9 Sec.
Company Chi Con Con Feet West of	Deg	30Mii	n. <u>00</u>	Sec.
Company: CNX Gas Company, LLC	_		78	
	Casing &	Used in	Left in well	Cement Fill Up
Address: 2481 John Nash BLVD	Tubing	drilling		(# of Sacks)
Bluefield, WV 24701	9 5/8***		44.1'	Sanded In
Agent: Les Arrington	7"		749.8'	135 sacks
The state of the s	1			
Inspector: Bill Hatfield				
Date Permit Issued: 12/19/2007				
Date Well Work Commenced: 1/18/2008				
Date Well Work Completed:2/3/2008				
Verbal Plugging: N/A	1			
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 1400'				
Fresh Water Depth (ft.): 300'		-		
	 			
Salt Water Depth (ft.): N/A				
Is seed before the day				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1005',1105'				
OPEN FLOW DATA				
Producing formation _Pittsburgh Coal_		_depth (ft) _	1102'	
Gas: Initial open flow 0 MCF/d Oil:	Initial open fl	ow B	3bl/d	
Final open flow MCF/d F	inal open flow	y B	bl/d	Office of O
Time of open flow between initial and i	final tests	Hour	8	Office of Oil and Ga
Static rock Pressure psig (surfac	e pressure) af	er Hou	IIS	Oo-
	, process, an			OCT 1 8 2023
Second producing formation	Pay zon	e depth (ft)_		2023
	Initial open fl	ow B	bVd Env	WV Department of
	inal open flow		bl/d	ironmental Protection
Time of open flow between initial and f	mar open now	Hour	DI/Q	otection
	-	The state of the s		
Pais (amiso	e pressure) aft	terHou	11.2	
NOTE: ON BACK OF THIS FORM PUT THE F	OLLOWING.	I) DETAILS	NE DEDESOR A TOTAL	
INTERVALS, FRACTURING OR STIMULATIN	G PHYSICAT	CHANCE E	r rekrukale	D Ind
LOG WHICH IS A SYSTEMATIC DETAILED	GPOLOGICAL	RECORD OF	AT PORCE OF	na See
INCLIDING COAL ENCOLINTEDED BY THE	WILDORE			,
Gas Well SC-4 Access (API No. 47-1030)	2303) is a ba	rizontal wal	for CNV C-	
Company, LLC. Refer to the attached in	oformation f	or additiona	l information	2013
$A \cap A = A \cap A$			Va Manora VIII	-
Signed: Oloff Januar				
By: Geoff Faming, Drilling Manager				
Date:	#L	_		09/27/201
		_		U3/2//2U

ATTACHMENT A

Wetzel County CBM Well No. SC-4 Access Drill Log API #47-10302303

Depth	Description
0-14	Fill
14-25	Shale
25-45	Sand
45-75	Sandy/Shale
75-110	Sand
110-140	Sandy Shale
140-170	Red Rock
170-210	Sand
210-245	Shale
245-280	Sandy Shale
280-310	Shale
310-345	Shale
345-355	Sandy Shale
355-370	Shale
370-380	Sandy Shale
380-420	Shale
420-485	Shale
485-505	Red Rock
505-515	Shale
515-550	Sand
550-585	Red Rock
585-620	Sandy Shale
620-645	Black Shale
645-715	Sandy Shale

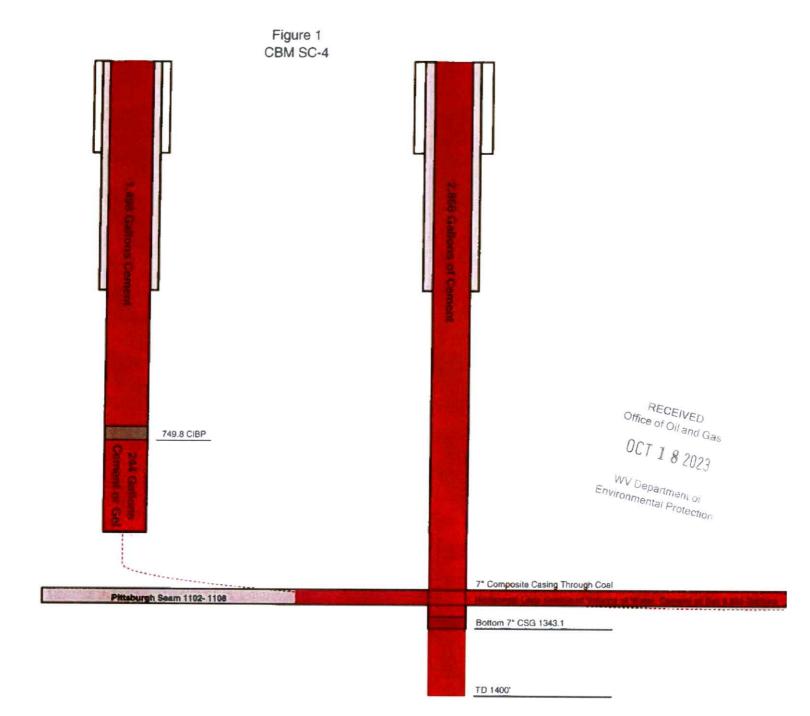
RECEIVED
Office of Oil and Gas

OCT 1 8 2023

WV Department of Environmental Protection

Receive Office of Oil

AUG -



U.S. Department of Labor

Mine Safety and Health Administration 201 12th Street South Arlington, Virginia 22202-5452



FE3 ~ 9 2013

In the matter of: The Marion County Coal Company Marion County Mine I.D. No. 46-01433

Petition for Modification

Docket No. M-2017-012-C

Proposed Decision and Order

On May 15, 2017, a petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to Petitioner's Marion County Mine located in Marion County, West Virginia. The petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the RECEIVED Office of Oil and Gas standard.

Section 30 C.F.R. § 75.1700 provides:

OCT 1 8 2023

Each operator of a coal mine shall take reasonable measures to locate oil and gas wells penetrating coalbeds or any underground area of a coal mine. When located, such operator shall establish and maintain barriers around such oil and gas wells in accordance with State laws and regulations, except that such barriers shall not be less than 300 feet in diameter, unless the Secretary or his authorized representative permits a lesser barrier consistent with the applicable State laws and regulations where such lesser barrier will be adequate to protect against hazards from such wells to the miners in such mine, or unless the Secretary or his authorized representative requires a greater barrier where the depth of the mine, other geologic conditions, or other factors warrant such a greater barrier.

The extraction of methane from coal seams and surrounding strata is a rapidly growing component of the domestic natural gas supply. Recent innovations in drilling techniques have resulted in development of several types of wells and production methods to extract coalbed methane (CBM) resources. Drill holes are deviated in both the horizontal and vertical planes using these techniques. These techniques differ from vertical gas wells and require different techniques in order to plug the wells. Procedures to address the potential hazards presented by CBM wells must be implemented to protect the coal miners who will be exposed to these wells.

You can now file your MSHA forms online at www.MSHA.gov. It's easy, it's fast, and it saves you money!

When coal mines intersect inadequately plugged CBM wells, methane inundations, ignitions and explosions are possible.

The alternative method proposed by Petitioner would include well plugging procedures, water infusion and ventilation methods, and procedures for mining through each CBM well and/or its branches.

Finding of Fact and Conclusion of Law

The Marion County Mine is an underground coal mine that operates in the Pittsburgh 8 coal seam. The mine employs 512 people, and operates three production shifts per day, five days per week. The mine currently operates three MMUs and a longwall. The coal bed is approximately 84 inches in height and the mine currently has nine air shafts utilizing exhaust ventilation fans. The mine has one slope located in Fairview, West Virginia, where the coal is belted out of the mine, sized, cleaned and then loaded into train railcars at the preparation plant. The mine liberates approximately 6,346,986 cubic feet of methane in 24 hours.

The miners are represented by a labor union with miners' representative.

Consol Energy extracts CBM from the coal seam prior to mining in order to reduce methane emissions and, thus, the incidence of face ignitions. The wells are drilled from the surface using directional drilling technology to develop horizontal branches within the coal seam being mined. Drill holes may be deviated in both the horizontal and vertical planes using these techniques. Multiple horizontal branches may be developed from a single well and multiple seams may be developed from a single well. The drilling industry has trademarked several different proprietary names for these drilling processes. For purposes of this Order, these proprietary drilling processes will be referred to as generic "surface directional drilled" (SDD) wells.

On July 6, 2017, MSHA conducted an investigation of Marion County Mine petition and filed a report of its findings and recommendations with the Administrator for Coal Mine Safety and Health. Based on information gathered during the investigation, MSHA evaluated the Petitioner's proposed alternative method and, as amended by the terms and conditions of MSHA, concluded that it would provide the same measure of protection afforded by 30 C.F.R. § 75.1700. The alternative method has been successfully used to prepare CBM wells for safe intersection by using one or more of the following methods: (1) Cement Plug, (2) Polymer Gel, (3) Bentonite Gel, (4) Active Pressure Management and Water Infusion, and (5) Remedial Work. The alternate method will prevent the CBM well methane from entering the underground mine.

Petitioner's proposed alternative method includes provisions from previously approved petition requests that permit a smaller barrier and/or permit mining through properly plugged oil and gas wells.

These alternative methods have proven safe and effective when properly implemented. In addition, Marion County Mine's petition request also includes additional provisions that are specific to SDD wells.

Accordingly, after a review of the entire record, including the petition and MSHA's investigative report, The Marion County Coal Company is granted a modification of the application of 30 C.F.R. § 75.1700 to its Marion County Mine, and this Proposed Decision and Order (PDO) is issued.

<u>ORDER</u>

Wherefore, pursuant to the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and pursuant to Section 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at the Marion County Mine is hereby:

GRANTED, to allow mining within or through the 300 foot barrier around SDD oil and gas wells, conditioned upon compliance with the following terms and conditions:

1. <u>DISTRICT MANAGER APPROVAL REQUIRED</u>

A minimum working barrier of 300 feet in diameter shall be maintained around all SDD wells until approval to proceed with mining has been obtained from the District Manager. This barrier extends around all vertical and horizontal branches drilled in the coal seam. This barrier also extends around all vertical and horizontal branches within overlying coal seams subject to caving or subsidence from the coal seam being mined when methane leakage through the subsidence zone is possible. The District Manager may choose to approve each branch intersection, each well, or a group of wells as applicable to the conditions. The District Manager may require a certified review of the proposed methods to prepare the SDD wells for intersection by a professional engineer in order to assess the applicability of the proposed system(s) to the mine-specific conditions.

RECEIVED
Office of Oil and Gas

OCT 1 8 2023

Wv paparagen, o Environmental Protection

2. MANDATORY PROCEDURES FOR PREPARING, PLUGGING, AND REPLUGGING SDD WELLS

a. MANDATORY COMPUTATIONS AND ADMINISTRATIVE PROCEDURES PRIOR TO PLUGGING OR REPLUGGING

- 1. Probable Error of Location - Directional drilling systems rely on sophisticated angular measurement systems and computer models to calculate the estimated location of the well bore. This estimated hole location is subject to cumulative measurement errors so that the distance between actual and estimated location of the well bore increases with the depth of the hole. Modern directional drilling systems are typically accurate within one or two degrees depending on the specific equipment and techniques. The probable error of location is defined by a cone described by the average accuracy of angular measurement around the length of the hole. For example: a hole that is drilled 500 vertical feet and deviated into a coal seam at a depth of 700 feet would have a probable error of location at a point that is 4,000 feet from the hole collar (about 2,986 ft. horizontally from the well collar) of 69.8 ft. (4,000 ft. x sine (1.0 degree)) if the average accuracy of angular measurement was one degree and 139.6 ft if the average accuracy of angular measurement was two degrees. In addition to the probable error of location, the true hole location is also affected by underground survey errors, surface survey errors, and random survey errors.
- 2. Minimum Working Barrier Around Well - For purposes of this Order, the minimum working barrier around any coalbed methane well or branches of a coalbed methane well in the coal seam is 50 feet plus the probable error of location. For example: for a hole that is drilled 500 vertical feet and deviated into a coal seam at a depth of 700 feet using drilling equipment that has an average accuracy of angular measurement of one degree, the probable error of location at a point that is 4,000 feet from the hole collar is 69.8 ft. Therefore, the minimum working barrier around this point of the well bore is 120 ft. (69.8 ft. plus 50 ft., rounded up to the nearest foot). The 50 additional feet is a reasonable separation between the probable location of the well and mining operations. When mining is within the minimum working barrier distance from a coalbed methane well or branch, the mine operator must comply with the provisions of this Order.

RECEIVED
Office of Oil and Gas

OCT 1 8 2023

Whitebacases --Environmental Protection Coalbed methane wells must be prepared in advance for safe intersection and specific procedures must be followed on the mining section in order to protect the miners when mining within this minimum working barrier around the well.

The District Manager may require a greater minimum working barrier around coalbed methane wells where geologic conditions, historical location errors, or other factors warrant a greater barrier.

- 3. Ventilation Plan Requirements - The ventilation plan shall contain a description of all SDD coalbed methane wells drilled in the area to be mined. This description should include the well numbers, the date drilled, the diameter, the casing information, the coal seams developed, maximum depth of the wells, abandonment pressures, and any other information required by the District Manager. All or part of this information may be listed on the 30 C.F.R. § 75.372 map. The ventilation plan shall include the techniques that the mine operator plans to use to prepare the SDD wells for safe intersection, the specifications and steps necessary to implement these techniques, and the required operational precautions that are required when mining within the minimum working barrier. In addition, the ventilation plan will contain any additional information or provisions related to the SDD wells required by the District Manager.
- Ventilation Map The ventilation map specified in 30 C.F.R.
 § 75.372 shall contain the following information:
 - The surface location of all coalbed methane wells in the active mining area and any projected mining area as specified in 30 C.F.R. § 75.372(b)(14);
 - ii. Identifying information of coalbed methane wells (i.e. API hole number or equivalent);
 - iii. The date that gas production began from the well;
 - iv. The coal seam intersection of all coalbed methane wells;
 - v. The horizontal extents in the coal seam of all coalbed methane wells and branches;
 - vi. The outline of the probable error of location of all coalbed methane wells; and
 - vii. The date of mine intersection and the distance between estimated and actual locations for all intersections of the coalbed methane well and branches.

 RECEIVED
 Office of Oil and Gas

b. MANDATORY PROCEDURES FOR PLUGGING OR REPLUGGING SDD WELLS

The mine operator shall include one of more of the following methods to prepare SDD wells for safe intersection in the mine ventilation plan. The methods approved in the ventilation plan must be completed on each SDD well before mining encroaches on the minimum working barrier around the well or branch of the well in the coal seam being mined. If methane leakage through subsidence cracks is a problem when retreat mining, the minimum working barrier must be maintained around wells and branches in overlying coal seams or the wells and branches must be prepared for safe intersection as specified in the mine ventilation plan.

1. Cement Plug - Cement may be used to fill the entire SDD hole system. Squeeze cementing techniques are necessary for SDD plugging due to the lack of tubing in the hole. Cement should fill void spaces and eliminate methane leakage along the hole. Once the cement has cured, the SDD system may be intersected multiple times without further hole preparation. Gas cutting occurs if the placement pressure of the cement is less than the methane pressure in the coal seam. Under these conditions, gas will bubble out of the coal seam and into the unset cement creating a pressurized void or series of interconnected pressurized voids. Water cutting occurs when formation water and standing water in the hole invades or displaces the unset cement. Standing water has to be bailed out of the hole or driven into the formation with compressed gas to minimize water cutting. The cement pressure must be maintained higher than the formation pressure until the cement sets to minimize both gas and water cutting. The cementing program in the ventilation plan must address both gas and water cutting.

Due to the large volume to be cemented and potential problems with cement setting prior to filling the entire SDD system, adequately sized pumping units with back-up capacity must be used. Various additives such as retarders, lightweight extenders, viscosity modifiers, thixotropic modifiers, and fly ash may be used in the cement mix. The volume of cement pumped should exceed the estimated hole volume to ensure the complete filling of all voids. The complete cementing program, including hole dewatering, cement, additives, pressures, pumping times and equipment must be specified in the ventilation plan.

RECEIVED
Office of Oil and Gas

The material safety data sheets (MSDS) for all cements, additives and components and any personal protective equipment and techniques to protect workers from the potentially harmful effects of the cement and cement components should be included in the ventilation plan. Records of cement mixes, cement quantities, pump pressures, and flow rates and times should be retained for each hole plugged.

SDD holes may be plugged with cement years in advance of mining. However, the District Manager shall require suitable documentation of the cement plugging in order to approve mining within the minimum working barrier around coalbed methane wells.

2. Polymer Gel - Polymer gels start out as low viscosity, water-based mixtures of organic polymers that are crosslinked using time-delayed activators to form a water-insoluble, high-viscosity gel after being pumped into the SDD system. Although polymer gel systems never solidify, the activated gel should develop sufficient strength to resist gas flow. A gel that is suitable for treating SDD wells for mine intersection will reliably fill the SDD system and prevent gas-filled volds. Any gel chemistry used for plugging SDD wells should be resistant to bacterial and chemical degradation and remain stabile for the duration of mining through a SDD system.

Water may dilute the gel mixture to the point where it will not set to the required strength. Water in the holes should be removed before injecting the gel mixture. Water removal can be accomplished by conventional bailing and then injecting compressed gas to squeeze the water that accumulates in low spots back into the formation. Gas pressurization should be continued until the hole is dry. Another potential problem with gels is that dissolved salts in the formation waters may interfere with the cross-linking reactions. Any proposed gel mixtures must be tested with actual formation waters.

Equipment to mix and pump gels should have adequate capacity to fill the hole before the gel sets. Back-up units should be available in case something breaks while pumping. The volume of gel pumped should exceed the estimated hole volume to ensure the complete filling of all voids and allow for gel to infiltrate the joints in the coal seam surrounding the hole. Gel injection and setting pressures should be specified in the ventilation plan.

RECEIVED
Office of Oil and Gas

To reduce the potential for an inundation of gel, the final level of gel should be close to the level of the coal seam and the remainder of the hole should remain open to the atmosphere until mining in the vicinity of the SDD system is completed. Packers may be used to isolate portions of the SDD system.

The complete polymer gel program, including advance testing of the gel with formation water, dewatering systems, gel specifications, gel quantities, gel placement, pressures, and pumping equipment must be specified in the ventilation plan. The MSDS for all gel components and any personal protective equipment and techniques to protect workers from the potentially harmful effects of the gel and gel components should be included in the ventilation plan. A record of the calculated hole volume, gel quantities, gel formulation, pump pressures, and flow rates and times should be retained for each hole that is treated with gel. Other gel chemistries other than organic polymers may be included in the ventilation plan with appropriate methods, parameters, and safety precautions.

3. Bentonite Gel - High-pressure injection of bentonite gel into the SDD system will infiltrate the cleat and butt joints of the coal seam near the well bore and effectively seal these conduits against the flow of methane. Bentonite gel is a thixotropic fluid that sets when it stops moving. Bentonite gel has a significantly lower setting viscosity than polymer gel. While the polymer gel fills and seals the borehole, the lower strength bentonite gel must penetrate the fractures and jointing in the coal seam in order to be effective in reducing formation permeability around the hole. The use of bentonite gel is restricted to depleted CBM applications that have low abandonment pressures and limited recharge potential. In general, these applications will be mature CBM fields with long production histories.

A slug of water should be injected prior to the bentonite gel in order to minimize moisture-loss bridging near the well bore. The volume of gel pumped should exceed the estimated hole volume to ensure that the gel infiltrates the joints in the coal seam for several feet surrounding the hole. Due to the large gel volume and potential problems with premature thixotropic setting, adequately sized pumping units with back-up capacity are required.

RECEIVED
Office of Oil and Gas

Additives to the gel may be required to modify viscosity, reduce filtrates, reduce surface tension, and promote sealing of the cracks and joints around the hole. To reduce the potential for an inundation of bentonite gel, the final level of gel should be approximately the elevation of the coal seam and the remainder of the hole should remain open to the atmosphere until mining in the vicinity of the SDD system is completed. If a water column is used to pressurize the gel, it must be bailed down to the coal seam elevation prior to intersection.

The complete bentonite gel program, including formation infiltration and permeability reduction data, hole pretreatment, gel specifications, additives, gel quantities flow rates, injection pressures and infiltration times, must be specified in the ventilation plan. The ventilation plan should list the equipment used to prepare and pump the gel. The MSDS for all gel components and any personal protective equipment and techniques to protect workers from the potentially harmful effects of the gel and additives should be included in the ventilation plan. A record of hole preparation, gel quantities, gel formulation, pump pressures, and flow rates and times should be retained for each hole that is treated with bentonite gel.

Active Pressure Management and Water Infusion - Reducing the 4. pressure in the hole to less than atmospheric pressure by operating a vacuum blower connected to the wellhead may facilitate safe intersection of the hole by a coal mine. The negative pressure in the hole will limit the quantity of methane released into the higher pressure mine atmosphere. If the mine intersection is near the end of a horizontal branch of the SDD system, air will flow from the mine into the upstream side of the hole and be exhausted through the blower on the surface. On the downstream side of the intersection, if the open hole length is short, the methane emitted from this side of the hole may be diluted to safe levels with ventilation air. Conversely, safely intersecting this system near the bottom of the vertical hole may not be possible because the methane emissions from the multiple downstream branches may be too great to dilute with ventilation air. The methane emission rate is directly proportional to the length of the open hole. Successful application of vacuum systems may be limited by caving of the hole or water collected in dips in the SDD system.

RECEIVED
Office of Oil and Gas

Another important factor in the success of vacuum systems is the methane liberation rate of the coal formation around the well—older, more depleted wells that have lower methane emission rates are more amenable to this technique. The remaining methane content and the formation permeability should be addressed in the ventilation plan.

Packers may be used to reduce methane inflow into the coal mine after intersection. All packers on the downstream side of the hole must be equipped with a center pipe so that the inby methane pressure may be measured or so that water may be injected. Subsequent intersections should not take place if pressure in a packer-sealed hole is excessive. Alternatively, methane produced by the downstream hole may be piped to an in-mine degas system to safely transport the methane out of the mine or may be piped to the return air course for dilution. In-mine methane piping should be protected as stipulated in "Piping Methane in Underground Coal Mines," MSHA IR 1094, (1978). Protected methane diffusion zones may be established in return air courses if needed. Detailed sketches and safety precautions for methane collection, piping and diffusion systems must be included in the ventilation plan (30 C.F.R. § 75.371(ee)).

Water infusion prior to intersecting the well will temporarily limit methane flow. Water infusion may also help control coal dust levels during mining. High water infusion pressures may be obtained prior to the initial intersection by the hydraulic head resulting from the hole depth or by pumping. Water infusion pressures for subsequent intersections are limited by leakage around in-mine packers and limitations of the mine water distribution system. If water is infused prior to the initial intersection, the water level in the hole shall not be more than 100 feet before the intersection.

The complete pressure management strategy including negative pressure application, wellhead equipment, and use of packers, inmine piping, methane dilution, and water infusion must be specified in the ventilation plan. Procedures for controlling methane in the downstream hole must be specified in the ventilation plan. The remaining methane content and formation permeability should be addressed in the ventilation plan. The potential for the coal seam to cave into the well should be addressed in the ventilation plan. Dewatering methods should be included in the ventilation plan.

RECEIVED
Office of Oil and Gas

A record of the negative pressures applied to the system, methane liberation, use of packers and any water infusion pressures and application time should be retained for each intersection.

5. Remedial work - If problems are encountered in preparing the holes for safe intersection, then remedial measures must be taken to protect the miners. For example: if only one-half of the calculated hole volume of cement could be placed into a SDD well due to hole blockage, holes should be drilled near each branch that will be intersected and squeeze cemented using pressures sufficient to fracture into the potentially empty SDD holes. The District Manager will approve remedial work in the ventilation plan on a case-by-case basis.

3. MANDATORY PROCEDURES AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT MANAGER TO MINE WITHIN THE MINIMUM WORKING BARRIER AROUND THE WELL OR BRANCH OF THE WELL

- a. The mine operator, the District Manager, the miners' representative, or the State may request a conference prior to any intersection or after any intersection to discuss issues or concerns. Upon receipt of any such request, the District Manager shall schedule a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation.
- b. The mine operator must notify the District Manager, the State and the miners' representative at least 48 hours prior to the intended intersection of any coalbed methane well.
- c. The initial intersection of a well or branch of a well typically has a higher risk than subsequent intersections. The initial intersection typically indicates if the well preparation is sufficient to prevent the inundation of methane. For the initial intersection of a well or branch, the following procedures are mandatory:
 - When mining advances within the minimum barrier distance of the well or branches of the well, the entries that will intersect the well or branches must be posted with a readily visible marking. For longwalls, both the head and tailgate entries must be so marked. Marks must be advanced to within 100 feet of the working face as mining progresses.

RECEIVED
Office of Oil and Gas

Marks will be removed after well or branches are intersected in each entry or after mining has exited the minimum barrier distance of the well.

- 2. Entries that will intersect vertical segments of a well shall be marked with drivage sights in the last open crosscut when mining is within 100 feet of the well. When a vertical segment of a well will be intersected by a longwall, drivage sights shall be installed on 10-foot centers starting 50 feet in advance of the anticipated intersection. Drivage sights shall be installed in both the headgate and tailgate entries of the longwall.
- 3. The operator shall ensure that fire-fighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mine-through (when either the conventional or the continuous mining method is used) is available and operable during all well mine-throughs. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient. All fire hoses shall be connected and ready for use, but do not have to be charged with water, during the cut-through.
- 4. The operator shall ensure that sufficient supplies of roof support and ventilation materials are available at the working section. In addition, emergency plugs, packers, and setting tools to seal both sides of the well or branch shall be available in the immediate area of the cut-through.
- 5. When mining advances within the minimum working barrier distance from the well or branch of the well, the operator shall service all equipment and check for permissibility at least once daily. Daily permissibility examinations must continue until the well or branch is intersected or until mining exits the minimum working barrier around the well or branch.
- 6. When mining advances within the minimum working barrier distance from the well or branch of the well, the operator shall calibrate the methane monitor(s) on the longwall, continuous mining machine, or cutting machine and loading machine at least once daily.

RECEIVED
Office of Oil and Gas

Daily methane monitor calibration must continue until the well or branch is intersected or until mining exits the minimum working barrier around the well or branch.

- 7. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within the minimum working barrier around the well or branch. During the cutting process, no individual shall be allowed on the return side until the minethrough has been completed and the area has been examined and declared safe. The shearer must be idle when any miners are inby the tail drum.
- 8. When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor within 20 feet of the face when mining through the well or branch. On longwall sections, rock dust shall be applied on the roof, rib, and floor up to both the headgate and tailgate pillared area.
- 9. Immediately after the well or branch is intersected, the operator shall de-energize all equipment, and the certified person shall thoroughly examine and determine the working place safe before mining is resumed.
- 10. After a well or branch has been intersected and the working place determined safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the well or branch.
- 11. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore or branch. Any casing, tubing or stuck tools will be removed using the methods approved in the ventilation plan.
- 12. No person shall be permitted in the area of the mine-through operation inby the last open crosscut during active mining except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.

RECEIVED
Office of Oil and Gas

- 13. The operator shall warn all personnel in the mine to the planned intersection of the well or branch prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well or branch has been intersected,
- 14. The mine-through operation shall be under the direct supervision of a certified person. Instructions concerning the mine-through operation shall be issued only by the certified person in charge.
- 15. All miners shall be in known locations and in constant two-way communications with the responsible person under 30 C.F.R. § 75.1501 when active mining occurs within the minimum working barrier of the well or branch.
- 16. The responsible person required under 30 C.F.R. § 75.1501 is responsible for well intersection emergencies. The well intersection procedures must be reviewed by the responsible person prior to any planned intersection.
- 17. A copy of the order shall be maintained at the mine and be available to the miners.
- 18. The provisions of this order do not impair the authority of representatives of MSHA to interrupt or halt the mine-through operation and to issue a withdrawal order when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the mine-through operation and/or a withdrawal of personnel by issuing either a verbal or a written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption of mine-through operations. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.
- d. For subsequent intersections of branches of a well, appropriate procedures to protect the miners shall be specified in the ventilation plan.

RECEIVED
Office of Oil and Gas

4. MANDATORY PROCEDURES AFTER SDD INTERSECTIONS

- a. All intersections with SDD wells and branches that are in intake air courses shall be examined as part of the pre-shift examinations required under 30 C.F.R. § 75.360.
- b. All other intersection with SDD wells and branches shall be examined as part of the weekly examinations required under 30 C.F.R. § 75.364.

5. OTHER REQUIREMENTS

- a. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in the mine-through of a well or branch with training regarding the requirements of this Order prior to mining within the minimum working barrier of the next well or branch intended to be mined through.
- b. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting program of instruction required by 30 C.F.R § 75.1502. The operator shall revise the program to include the hazards and evacuation procedures to be used for well intersections. All underground miners shall be trained in this revised program within 30 days of the approval of the revised mine emergency evacuation and firefighting program of instruction.

Any party to this action desiring a hearing on this matter must file in accordance with 30 C.F.R. § 44.14, within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 201 12th Street South, Arlington, Virginia 22202-5452.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing may also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site.

RECEIVED
Office of Oil and Gas

OCT 1 8 2023

WV Department
Environmental Projection

If no request for a hearing is filed within 30 days after service thereof, the Proposed Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

Timothy R. Watkins

Deputy Administrator for Coal Mine Safety and Health

RECEIVED
Office of Oil and Gas

OCT 1 8 2023

WV Department of Environmental Protection

Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mail	led,
postage prepaid, or provided by other electronic means this day of	·
14501014 , 2018, to:	

Mr. Pete Simpson - General Manager The Marion County Coal Company 151 Johnny Cake Road Metz, WV 26585 petesimpson@coalsource.com

Mr. Ricky Rinehart Miner Representative 67 Cellular Drive Mannington, WV 26582

Tammi Carrington Secretary

cc: Greg J. Norman, Director Office of Miners' Health Safety & Training #7 Players
Club Dr. Suite 2, Charleston WV 25311
Greg. J. Norman@wv.gov

RECEIVEL
Office of Oil and the

OCT 1 8 2023

WV Department of

Environmental Protection

bcc: District 3

OSRV

D.Braenovich

Case File

DBraenovich: 9/26/2017 Standard terms and conditions from Docket No.

M-2009-006-C

FILE C	OPY
Surname	Date
	,,
	 -
	

RECEIVED
Office of Oil and Gas

OCT 1 8 2023

WV Department of Environmental Protection

WW-4A	
Revised	6-07

1) Date:	SEPTEMBER 11, 2023	
2) Operator's Well N	umber	
	SC-4A	
3) API Well No.: 47 -	103 - 023	03

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

4) Surface O	wner(s) to be served: MIKE SLEETH	5) (a) Coal Operator Name	WEST VIRGINIA LAND RESOURCES INC.
Address	13134 MASON DIXON HWY	Address	1 BRIDGE STREET
	BURTON, WV 26562		MONONGAH, WV 26554
(b) Name		(b) Coal Owr	ner(s) with Declaration
Address		Name	
		Address	
(c) Name		Name	
Address		Address	
6) Inspector	STEPHEN E. MCCOY	(c) Coal Less	ee with Declaration
Address	13016 INDIAN CREEK RD.	Name	
	JACKSONBURG, WV 26377	Address	
Telephone	(681) 344-3265		

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
- 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,

C	~~~~
ζ	A LITTON
5	A 3 3
₹	RAISE PR
5	
?	

OFFICIAL SEAL **NOTARY PUBLIC** STATE OF WEST VIRGINIA Aaron Peterman 518 Camp Hill Road Elizabeth WV 26143 My Commission Expires May 11, 2027

Well Operator

By: Its:

Address

Telephone

WEST VIRGINIA LAND	RESOURCES INC.

DAVID RODDY

PROJECT ENGINEER

MONONGAH, WV 26554

1 BRIDGE STREET

(304) 534-4748

Office of Oil and Gas

RECEIVED

WV pepannieni Environmental Protection

	_				
Subscribed	and	sworn	before	me	this

day of Serter

Notary Public

Oil and Gas Privacy Notice

My Commission Expires

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.

4303	U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only
7	For delivery information, visit our website at www.usps.com?.
5307	Certified Mail Fee \$ [Extra Services & Fees (check box, add fee as appropriate)]
1000	Return Receipt (electronic) Return Receipt (electronic) Certifled Mail Restricted Delivery Adult Signature Required
3090	Adult Signature Restricted Delivery \$ Postage \$ Total Postage and Fees
7018	Street and Apt. No., or PO Box No. Street and Apt. No., or PO Box No. 13134 Mason Dison Hay City, State, ZIP44 Borton, WV 26562
	PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instruction

RECEIVED
Office of Oil and Gas

OCT 1 8 2023

WV Department of Environmental Protection

API No.	47-103-02303	
Farm Name		
Well No.	SC-4A	

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

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: 10/12/27

Office of Oil and Gas

WV Department of Environmental Profession



API Number	47 -	103	02303
Operator's W	ell No.	54	40

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

FLUIDS CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name	WEST VIRGINIA LAND RESOUR	RCES INC.	OP Code		
Watershed (HUC	10) LOST RUN OF WEST VIRGINIA	FORK OF FISH CREEK Qu	adrangle HUNDRED W.VA,PA		
Do you anticipat	e using more than 5,000 bbl	s of water to complete the p	roposed well work? Yes	No 🗸	
Will a pit be use	d? Yes No				
	lease describe anticipated pit	7.00			
Will as	ynthetic liner be used in the	pit? Yes No	If so, what ml.?		
Propose	ed Disposal Method For Trea	ited Pit Wastes:			
		(if selected provide a compl			
	Underground Inject)
	Off Site Disposal	(Supply form WW-9 for de anks, see attached letter	200		
Will closed loop	systembe used? If so, desc	ribe: Yes. Gel circulated from	n tank thru well bore and return	ned to tank	
Drilling medium	anticipated for this well (ver	tical and horizontal)? Air,	freshwater, oil based, etc. Ge	or Cement	
-If oil ba	ased, what type? Synthetic,	petroleum, etc)		
Additives to be u	sed in drilling medium? Be	ntonite, Bicarbonate of Soda			
Drill cuttings dis	posal method? Leave in pit,	landfill, removed offsite, et	c. Shaker cutting buried on site.		
-If left in	pit and plan to solidify wha	at medium will be used? (co	ement, lime, sawdust) N/A		
	or offsite name/permit num			+	
Permittee shall pr West Virginia sol where it was prop	lid waste facility. The notice	office of Oil and Gas of any shall be provided within 24	load of drill cuttings or association and the per-	ciated waste rejected a	it any close
provisions of the por regulation can I certify application form a the information, I submitting false in Company Official	by the Office of Oil and Gapermit are enforceable by law lead to enforcement action under penalty of law that I and all attachments thereto at believe that the information formation, including the positions of the position	s of the West Virginia Dep v. Violations of any term of I have personally examined and that, based on my inquiry in is true, accurate, and con ssibility of fine or imprisonal	of the GENERAL WATER Is artment of Environmental Proceedings of the general permand and am familiar with the istrofthose individuals immediantly of those individuals immediantly of the second of the	nit and/orother application submitted	d that the cable law
C.1. 7 1 1		** .			
	om before me this 25	1	. 20 23	francom.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
an	- Tetom		Notary Public	A A A	NOTARY PL
My commission ex	pires 5/11/27			{	STATE OF WEST Asron Peter

Operator's Well No. 5C-4A

roposed	Revegetation Treatm	ent: Acres Disturbed	Preveg etation	р11
	Lime 3	Tons/acre or to correct to p	Н 6.0	
	Fertilizer type 10-20	l-20 or equivalent	_	
ı	Fertilizer amount 500)	_lbs/acre	
1	Mukh 2	Tor	s/acre	
		Se	eed Mixtures	
	Temp	porary	Pern	nanent
	Seed Type Attachmen t	lbs/acre 100	Seed Type See Attachment	lbs/acre
		· · · · · · · · · · · · · · · · · · ·	••	
				
ovided) , W), ar	If water from the pit nd area in acres, of the		ication (unless engineered plans inc water volume, include dimensions (l	
aps(s) o ovided) , W), ar notocop	. If water from the pit nd area in acres, of the ied section of involved	will be land applied, provide land application area. d 7.5' topographic sheet.	water volume, include dimensions (L, W, D) of the pit, and dir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (L, W, D) of the pit, and dir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. en Mccoy Digitally signed by Str. Date: 2023.10.13 21:30 im seed mulch.	water volume, include dimensions (L, W, D) of the pit, and dir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir
aps(s) or ovided) W), ar notocop	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir
aps(s)e ovided) W), ar notocop an Appi onwhents	If water from the pit and area in acres, of the ied section of involved roved by: Stepho	will be land applied, provide land application area. d 7.5' topographic sheet. One of the body Digitally signed by Str. Date: 2023.10.13 21:30	water volume, include dimensions (Office of Oil and Oir

Consolidation Coal Company Northern West Virginia Operations 1 Bridge Street Monougah, WV 26554

phone: 304-534-4748 fax: 304-534-4739

e-mail: ronnieharsh@consolenergy.com

web: www.coalsource.com

*Name: RONNIE HARSE *title: Project Engineer

April. 7, 2014

Department of Environmental Protection Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304-2345 Phone: (304) 926-0499 Fax: (304) 926-0452

RECEIVED
Office of Oil and Gas
OCT 1 8 2023
WV Department of Environmental Protection

To Whom It May Concern:

As per the Department of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company, Northern West Virginia Operations, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without general permit for Oil and Gas Pit Waste Discharge Application), Consolidation Coal Company, Northern West Virginia Operations, will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities number U-78-83, U-104-83, or U-1011-93.

Sincerely,

Ronnie Harsh Project Engineer

Romin Wand

(AUDILL SELL) • 1864 E HATH HUY 68 HOUSE •2 • MORCHERD KY 48351 • RMS • 4923

NOTICE TO CONSUMERS

*Notice Arbitration/condition/mediation required NOTICE TO CONSUMER

"Notice Arbeitantess declarimediation required
by several states." Under the send laws of several
states, while they are being laws of several
states, while they may be send, to which this
required as a presented they are several to the
required as a presented they are several to the
rective is standard to produce as represented. The
consumer that the is complant lewern to AR FL
M, MS, SC TX, WA, signed only CA, ID, ND, SC)
stong with the required they law lewers applicable
with the Convrision at Directarities when the Convrision at Directarities with the Convrision at Directarities are to permit
Applicables Colour within such time as to permit
in appoint of the crops, plants, as trace by the
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with con
diagonal and approxy and the assessment from with condiagonal and approxy and the assessment are and and
are a construction."

NOTICE TO BUTCH WE WARRANT
THAT SEEDS WE BELL WILL CO-FORM
TO THE LIBEL DESCRIPTION RECORRED
TO THE LIBEL DESCRIPTION RECORRED
TO THE LIBEL DESCRIPTION RECORDED
WITHIN RECOONLED TO LEPANCE 9. WE
LAME NO WARRANTES. EDPRESSED
OF MATLED, OF MERICANTABLITY,
FITNESS FOR PURPOSE, CA OTHERWIS.
WHICH WILLIE DETERMISETION SUCH
DESCRIPTIONS, AND HAMP EVENT OUR
LIABULTY FOR BEFECH OF ANY WARRANT Y
OR COMPACT WITHIN SEFECT TO SUCH
SEED IS CUSTED TO THE PURPOHASE
PHACE OF SUCH SEEDS.

HIXTURE-COASTAL S LOT NO 7711889 CROP: .58	SEED 2015 INERT: 1 56 VEED SEED	20				
KIND HOME RYEGORSS ORCHROGRASS ORCHROGRASS CONTING MATERIAL PERENDIAL RYEGORSS CONTING MATERIAL THOTTY PROS OOT TREFOIL CONTING MATERIAL ROTING CLOVER CONTING MATERIAL	VARIETY SEED SEED SEATURE POTOMEC LINM NOT STATED CLIMAX NOT STATED SEMINOLE	.26	S. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	29 30 00 00 00 00 00 00 00 00 00 00 00 00	HR 20 50 50 50 50 50 50 50 50 50 50 50 50 50	00000000000000000000000000000000000000

Memo Treatments

NOXIOUS NEEDS PER LB

RECEIVED Office of Oil and Gas OCT 1 8 2023 WV Department o. Environmental Protection

API Number 47 -	103	02303
Operator's Well No.	<u> </u>	UA

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code	
Watershed (HUC 10) LOST RUN OF WEST VIRGINIA FORK OF FISH CREEK Quadrangle HUNDRED W.VA.PA	_
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 V	
If so, please describe anticipated pit waste:	_
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW-9-GPP)	
Underground Injection (UIC Permit Number)
Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Tanks, see attached letter	_,
Will closed loop systembe used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement	
	RECEIVED
Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda	e of Oil and Gas
	T 1 8 2023
	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA WV	Tepa rtment o. nental Protectic
-Landfill or offsite name/permit number? N/A	— Protectic
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disc where it was properly disposed.	any lose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Environmental Protection. I understand provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applic 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 application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for othe information, I believe that the information is true, accurate, and complete. I am aware that there are significant penasubmitting false information, including the possibility of fine or imprisonment.	that the able law on this btaining
Company Official Signature	
Company Official (Typed Name) David Roddy	
Company Official Title Project Engineer	_ -
Subscribed and swom before me this 75# day of 507 Notary Public Notary P	OFFICIAL SEAL NOTARY PUBLI
	STATE OF WEST VIRG





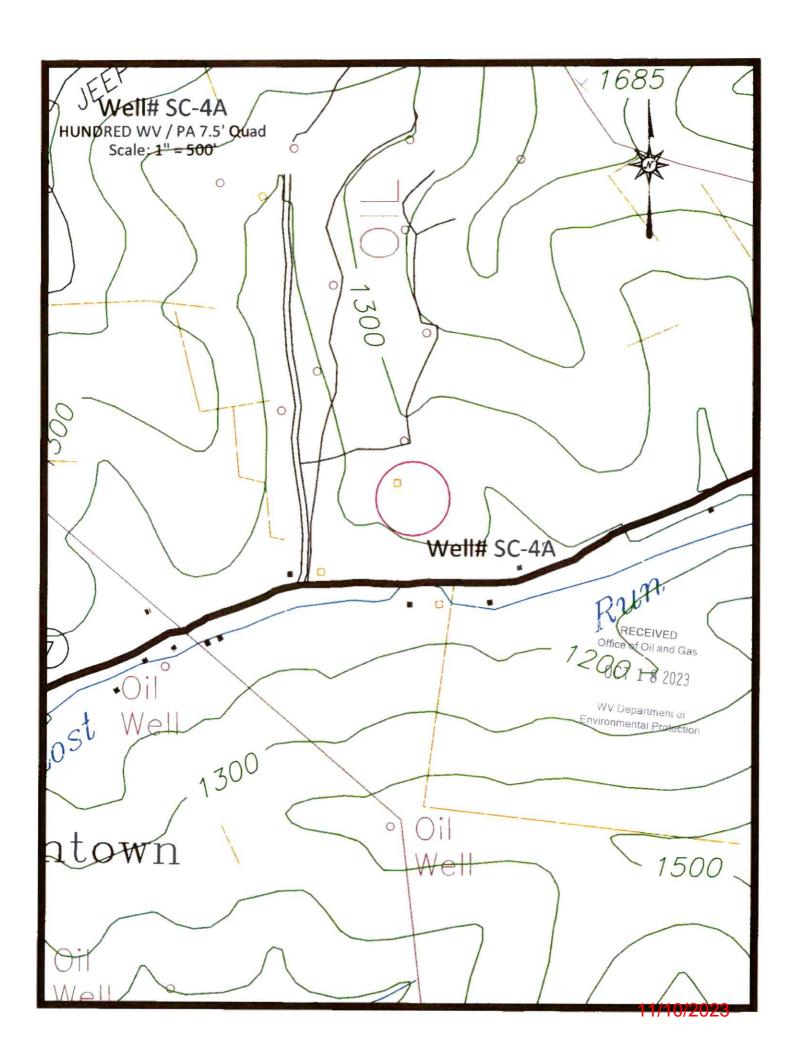
West Virginia Department of Environmental Protection Office of Oil and Gas

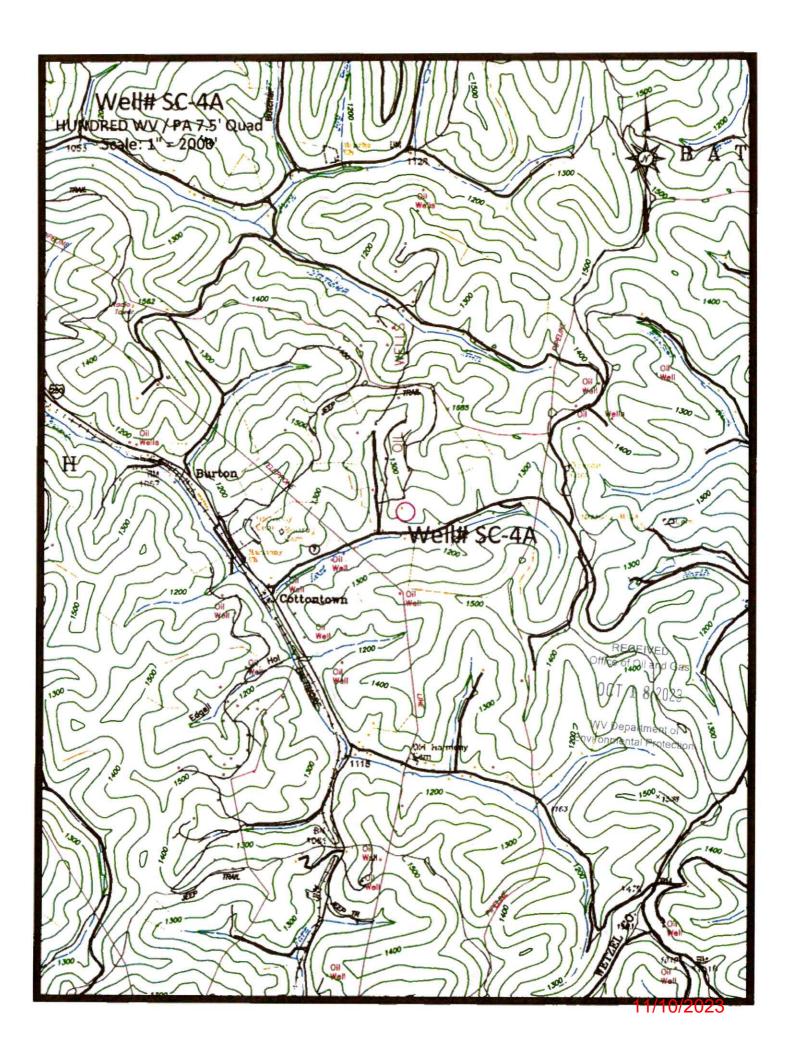
WELL LOCATION FORM: GPS

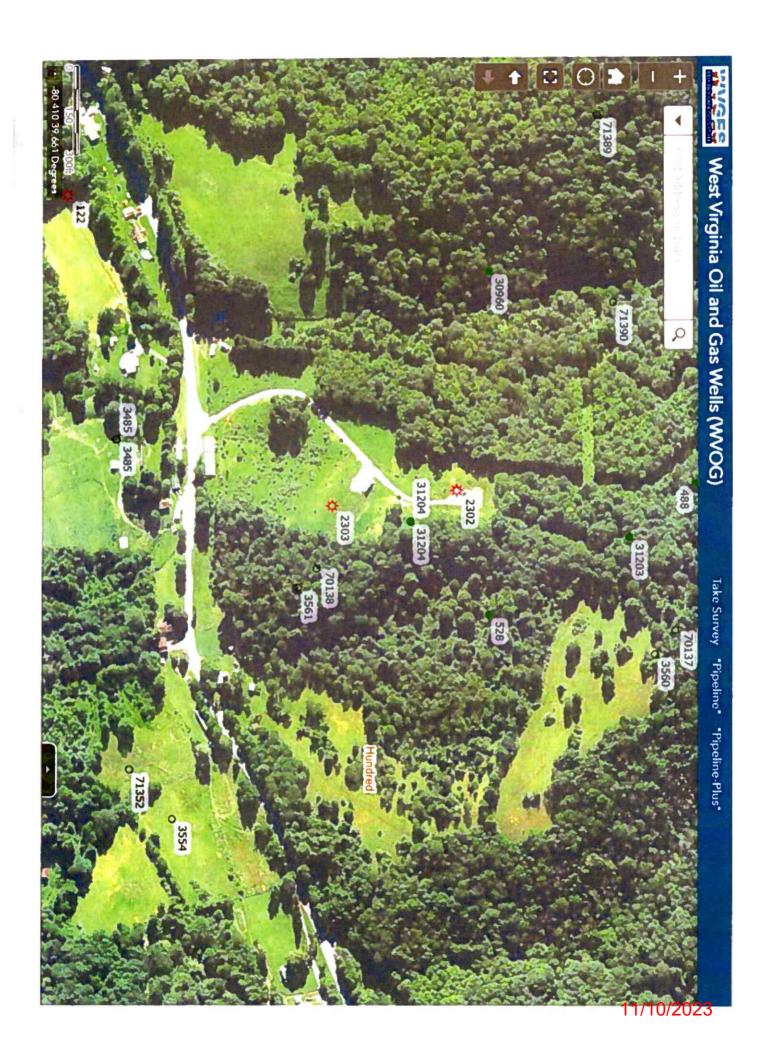
API: 47-103-02303	VELL NO.:	SC-4A
FARM NAME: MIKE SLEETH		
RESPONSIBLE PARTY NAME: WEST VIRGINIA	A LAND RE	SOURCES INC.
COUNTY: WETZEL DIST	_{rrict:} Ch	HURCH
QUADRANGLE: HUNDRED W.VA,P.	Α	
SURFACE OWNER: MIKE SLEETH		
ROYALTY OWNER:		
UTM GPS NORTHING: 4,390,413 m UTM GPS EASTING: 550,284 m	_	
UTM GPS EASTING: 550,284 m	 PS FI FVATI	_{ov.} 382 m
The Responsible Party named above has chosen to submoreparing a new well location plat for a plugging permitabove well. The Office of Oil and Gas will not accept G	nit GPS coordi	inates in lieu of .PI number on the
The Responsible Party named above has chosen to submoreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept Githe following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordin height above mean sea level (MSL) – meters 2. Accuracy to Datum – 3.05 meters	nit GPS coordi or assigned A PS coordinate	inates in lieu of IPI number on the Is that do not meet Iters, Altitude:
The Responsible Party named above has chosen to submoreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept Githe following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate height above mean sea level (MSL) – meters 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method:	nit GPS coordi or assigned A PS coordinate nate Units: med	inates in lieu of IPI number on the Is that do not meet Iters, Altitude: RECEIVED Office of Oil and
The Responsible Party named above has chosen to submoreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept Ghe following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordin height above mean sea level (MSL) – meters 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS X: Post Processed Differential	nit GPS coordi or assigned A PS coordinate nate Units: me	inates in lieu of IPI number on the Is that do not meet Iters, Altitude:
The Responsible Party named above has chosen to submoreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept Ghe following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate height above mean sea level (MSL) – meters 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method:	nit GPS coordi or assigned A PS coordinate nate Units: med	inates in lieu of .PI number on the s that do not meet ters, Altitude: RECEIVED Office of Oil and OCT 1 8 20
The Responsible Party named above has chosen to submoreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept Githe following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordin height above mean sea level (MSL) – meters 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS X: Post Processed Differential Real-Time Differential	nit GPS coordi or assigned A PS coordinate nate Units: met	inates in lieu of .PI number on the s that do not meet ters, Altitude: RECEIVED Office of Oil and OCT 1 8 20
The Responsible Party named above has chosen to submore preparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept Gothe following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate 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 4. Letter size copy of the topography map she the undersigned, hereby certify this data is correct to the belief and shows all the information required by law and	nit GPS coordinate or assigned A PS coordinate nate Units: met	inates in lieu of aPI number on the sthat do not meet ters, Altitude: RECEIVED Office of Oil and OCT 1 8 20 WV Department Environmental Profit I location. Inowledge and as issued and
The Responsible Party named above has chosen to submpreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept G the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordin 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	nit GPS coordinate or assigned A PS coordinate nate Units: met	inates in lieu of IPI number on the sthat do not meet ters, Altitude: RECEIVED Office of Oil and OCT 1 8 20 WV Department Environmental Profile I location.



11/10/2023









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

plugging permits issued for 4710302302 02303 02387 02386

1 message

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

Mon, Nov 6, 2023 at 2:13 PM

To: "Roddy, David" <DavidRoddy@acnrinc.com>, Stephen E McCoy <stephen.e.mccoy@wv.gov>, slemley@wvassessor.com

TO whom it may concern, plugging permits have been issued for 4710302302 02303 02387 02386.

James Kennedy

WVDEP OOG

4 attachments

