

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, March 13, 2018 WELL WORK PERMIT Vertical / Plugging

CONSOLIDATION COAL COMPANY 1 BRIDGE STREET

MONONGAH, WV 265540000

Re:

Permit approval for R-274 47-049-00937-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: R-274

Farm Name: THORNE, S. C.

U.S. WELL NUMBER: 47-049-00937-00-00

Vertical Plugging

Date Issued: 3/13/2018

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. 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
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date	FEBRUA	RY 22	20	18
2) Opera	tor's			
Well	No.	R-274		
3) API W	ell No.	47- 648		100037

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

	APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas/ Liquid	
	(If "Gas, Production or Und	derground storage Deep/ Shallow
5)	Location: Elevation 1223.92' District MANNINGTON	Watershed BUFFALO CREEK County MARION Quadrangle GLOVER GAP, WV 7.5
6)	Well Operator CONSOLIDATION COAL COMPANY Address 1 BRIDGE STREET MONONGAH, WV 26554	7) Designated Agent DAVID RODDY Address 1 BRIDGE STREET MONONGAH, WV 26554
8)	Oil and Gas Inspector to be notified Name SAM WARD Address P.O. BOX 2327 BUCKHANNON, WV 26201	9) Plugging Contractor Name Address
10)	Work Order: The work order for the many SEE EXHIBIT N	o. l

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

Work order approved by inspector

Dumot 2/28/2018

EXHIBIT NO.1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize the following method to plug all future wells.

SOLID PLUG METHOD



- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
 - (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal
 - (c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

SDW 2/28/2018

Circulate through tubing or drill steel an expanding Class A cement plug from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

THIS WELL HAS HAD PRUDUCTION REPORTED FROM UNTIL 2010. MUST MAKE SURE BY A MINIMUM OF 100' CLASS A CEMENT PLUG WITH NO MORE THAN 3% CaCl2 AND NO OTHER ADDITIVES. U.S. Department of Labor

Mine Safety and Health Administration 4015 Wilson Boulevard Arlington, Virginia 22203-1984



JUL 13 2001

MSHA 101C EXEMPTION

In the matter of Consolidation Coal Company Robinson Run No. 95 I.D. No. 46-01318 Petition for Modification

Docket No. M-2001-015-C

PROPOSED DECISION AND ORDER

On February 6, 2001, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Robinson Run No. 95 Mine. 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 standard.

The alternative method proposed by the petitioner is similar to that approved under similar petitions for modification with the exception of certain terms and conditions. Specifically, the District Manager has the authority to allow mining within 300 feet without plugging, and to accept wells cleaned and plugged prior to the effective date of this Order if the plugging methods are documented and meet the terms and conditions of this Order.

MSHA personnel conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative report and recommendation, this Proposed Decision and Order (PDO) is issued.

Finding of Fact and Conclusion of Law

The alternative method proposed by the Petitioner (as amended by MSHA) will at all times guarantee no less than the same measure of protection afforded the miners under 30 CFR 75.1700.

The petitioner reports that more than 550 oil and gas wells have been plugged and more than 475 plugged wells have been successfully mined through since the company first received modifications to the application of the standard at several of its other mines. Further, the petitioner adopted the special terms and condition MSHA imposed in Docket No. M-1990-066-C for the Shoemaker Mine. The petitioner plans to clean out and plug all wells including those with existing plugging affidavits, prior to mining through.

Typically, the wells are less than 2000 feet deep. The Robinson Run No. 95 Mine is extracting coal on the Pittsburgh Coal Seam. There are old workings on the coal seams above, and coal seams which are greater than 24 inches thick both above and below the current mine workings at various locations. Generally, the Pittsburgh Coal Seam is 200 to 700 feet from the surface depending upon the topography. The majority of the wells which will be plugged were drilled before 1930 prior to enactment of any drilling or plugging standards. Also, many of the well were abandoned before federal or state regulations became effective.

Unless the existing records show that an abandoned well was plugged using techniques equivalent to this proposed decision and order's terms and condition, and that information is submitted and accepted in accordance with Paragraph 2(s) as providing the required level of safety by the District Manager, the well shall be again cleaned, inadequate plugging materials drilled out and the well plugged in accordance with the terms and conditions of this proposed decision and order before such wells may be cut through or approached within the allowed limits. information provided by the petition suggests that special attention to securing and interpreting the suite of drill logs required by Paragraph 1(a)(4) is needed to ensure that, at a minimum, the expanding cement plug extends from at least 200 feet below the lowest minable seam through 100 feet above the highest minable seam, unless the seams are separated by an interval greater than 300 feet, in which case each seam may be plugged individually.

On the basis of the petition and the findings of MSHA's investigation, Consolidation Coal Company is granted a modification of the application of 30 CFR 75.1700 to its Robinson Run No. 95 Mine. The mine is currently plugging and cutting through oil and gas wells using the special terms and conditions granted in the Proposed Decision and Order for Docket No. M-1979-261-C finalized August 18, 1980. This PDO will supercede the terms and conditions of that Order when it becomes effective.

ORDER

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., sec. 811(c), it is ordered that Consolidation Coal Company's Petition for Modification of the application of 30 CFR 75.1700 at the Robinson Run No. 95 Mine is hereby:

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GRANTED, for mining through or near (whenever the safety barrier diameter is reduced to a distance less than the District Manager would approve pursuant to Section 75.1700) plugged oil or gas wells penetrating the Pittsburgh seam and other minable coal seams, conditioned upon compliance with the following terms and conditions:

- 1. Procedures to be utilized when plugging oil or gas wells.
 - a. <u>Cleaning out and preparing oil and gas wells.</u>
 Prior to plugging an oil or gas well, the following procedure shall be followed:
 - (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest minable coal bed.
 - (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest minable coal bed.
 - (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest minable coal bed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
 - (4) A suite of logs shall be made consisting of a caliper survey, directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest minable coal bed and

potential hydrocarbon producing strata and the location for the bridge plug.

- (5) If the uppermost hydrocarbon-producing stratum is within 200 feet of the base of the lowest minable coal bed, properly placed mechanical bridge plugs or a suitable brush plug described in Subparagraph (a)(3) shall be used to isolate the hydrocarbon producing stratum from the expanding cement plug.

 Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest minable coal bed.
- (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and increases the density of the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
- b. <u>Plugging oil or gas wells to the surface.</u> The following procedures shall be utilized when plugging gas or oil wells to the surface:
 - (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest minable coal bed to the surface with an expanding cement plug extending from at least 200 feet below the lowest minable coal bed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest minable coal bed.
 - (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.

- c. Plugging oil or gas wells using the vent pipe method. The following procedures shall be utilized when using the vent pipe method for plugging oil and gas wells:
 - (1) A 4½-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest minable coal bed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
 - (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expanding cement for a minimum of 200 feet below the base of the lowest minable coal bed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest minable coal bed.
 - (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
 - (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- d. <u>Plugging oil and gas wells for use as degasification boreholes.</u> The following procedures shall be utilized when plugging oil or gas wells for subsequent use as degasification boreholes:
 - (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest minable coal bed. The top of the

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expanding cement shall extend upward to a point above the top of the coal bed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.

- (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
- (3) The annulus between the degasification casing and the borehole wall shall be cemented from a point immediately above the slots or perforations to the surface.
- (4) The degasification casing shall be cleaned out for its total length.
- (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shut-in valves, sampling port, flame arrestor equipment, and security fencing.
- 2. The following cut-through procedures (a-t) apply whenever the petitioner reduces the safety barrier diameter to a distance less than the District Manager would approve pursuant to Section 75.1700 or proceeds with an intent to cut through a plugged well:
 - a. Prior to reducing the safety barrier to a distance less than the District Manager would approve pursuant to Section 75.1700 or proceeding with an intent to cut through a plugged well, the operator shall notify the District Manager or his designee.
 - b. The MSHA District Manager or designee may conduct a conference prior to mining through any plugged well to review and approve the specific procedures for mining through the well. Representatives of the operator, the representative of the miners, and the appropriate State agency shall be informed, within a reasonable time prior to the conference, and be given an opportunity to attend

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and participate. This meeting may be called by the operator.

- c. Mining in close proximity to or through a plugged well shall be done on a shift approved by the District Manager or designee.
- d. The District Manager or designee, representative of the miners, and the appropriate State agency shall be notified by the operator in sufficient time prior to the mining through operation in order to have an opportunity to have representatives present.
- e. When using continuous mining equipment, drivage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well. When using longwall mining methods, drivage sights shall be installed on 10-foot centers for a distance of 50 feet in advance of the well bore. The drivage sights shall be installed in the headgate and tailgate.
- f. Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. All fire hoses shall be ready for operation during the mining through.
- g. Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs shall be available in the immediate area of the cut through.
- h. The quantity of air required by the approved mine ventilation plan, but not less than 6,000 cubic feet of air per minute for scrubber equipped continuous miners or not less than 9,000 cubic feet per minute for continuous miner sections using auxiliary fans or line brattice only, shall be used to ventilate the working face during the mining through operation. The quantity of air

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required by the ventilation plan, but not less than 30,000 cfm, shall reach the working face of each future longwall during the mine-through operation.

- i. Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well.
- j. The methane monitor(s) on the continuous mining machine or the longwall shear and face shall be calibrated on the shift prior to mining through the well.
- k. When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 10 feet of the well. During the actual cutting through process, no individual shall be allowed on the return side until mining through has been completed and the area has been examined and declared safe.
- 1. When using continuous 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 to within 20 feet of the face when mining through or near the well on the shift or shifts during which the cut through will occur. On longwall sections rock dusting shall be conducted and placed on the roof, rib, and floor up to both headgate and tailgate gob.
- m. When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until adequate ventilation has been established around the wellbore.

- n. After a well 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 wellbore.
- o. No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- p. The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.
- q. MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- r. A copy of the petition shall be maintained at the mine and be available to the miners.
- s. The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.
- t. Within 60 days after this PDO becomes final, the Petitioner shall submit proposed revisions for its approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the terms and conditions stated in the PDO.

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 4015 Wilson Boulevard, Arlington, Virginia 22203.

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

Michael f./Lawless Deputy Administrator

for Coal Mine Safety and Health

Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this /3 day of _______, 2001 to:

Robert M. Vukas, Esq. CONSOL, Inc. Consol Plaza 1800 Washington Road Pittsburgh, Pennsylvania 15241-1421

41. F.

Addressee of Record Mr. James Siko, Superintendent Consolidation Coal Company Robinson Run No. 95 RT. 2, Box 152 Mannington, West Virginia 26582 Ms. Joyce A. Hanula
United Mine Workers
of America
8315 Lee Highway
Fairfax, Virginia 22031-2215

SUSAN Y. LEE

Mine Safety and Health Technician

cc: Mr. Ronald L. Harris



Select County:	(049) Marion	▼	Select datatypes:	(Check All)	
Enter Permit #:	937		Location	Production	
Get Data	Reset		Owner/Completion	Stratigraphy	Sample
Get Data	Reset			√ Logs	Btm Hole Loc

Permit-Numbering Series **Usage Notes** Contact Information Disclaimer WVGES Main "Pipeline-Plus" New

Report Time: Wednesday, February 21, 2018 5:57:16 AM

MAR

WV Geological & Economic Survey:

Well: County = 049 Permit = 937

Location Information: View Map

COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN 4704900937 Marion 937 unknown unknown unknown

There is no Bottom Hole Location data for this well

There is no Owner/Completion data for this well

There is no Owner/Completion data for this well

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4704900937		1988	2,279	163	194	216	181	211	223	271	262	323	218	17	0
	Garner & Gawthrop, Inc.	1990	3,140	272	125	216	144	263	233	486	190	3	408	388	412
	marcon and a control	1992	3,019	247	329	295	155	210	305	111	235	283	293	283	273
	Mutschelknaus, Clarence	1993	3,045	256	235	195	215	213	249	267	276	297	285	276	281
		1994	2,085	160	134	143	183	182	190	191	199	194	190	135	184
4704900937	Mutschelknaus, Clarence	1996	4,188	239	264	326	383	397	413	435	414	169	379	446	323
	Mutschelknaus, Clarence	1997	4,414	278	327	375	381	414	417	432	401	335	397	323	334
4704900937	Mutschelknaus, Clarence	1998	4,422	360	292	332	328	378	386	423	397	263	423	421	419
4704900937		1999	4,227	367	337	378	367	422	355	375	384	318	312	326	286
	Mutschelknaus, Clarence	2001	4,349	350	307	312	260	283	374	405	416	436	428	402	376
		2002	4,104	372	362	345	372	353	370	413	394	411	377	335	0
	marcon character	2003	4,008	370	341	322	430	363	344	304	180	239	351	387	377
4704900937		2004	4,160	366	222	232	328	364	399	362	419	409	317	373	369
	Mutschelknaus, Clarence	2005	4,535	389	374	339	346	354	389	397	407	413	364	419	344
		2006	4,025	334	282	293	340	267	322	342	393	352	355	393	352
		2007	1,574	336	313	344	343	238	0	0	0	0	0	0	0
4704900937	Leatherwood, Inc.	2007	1,973	164	164	164	164	164	164	164	164	164	164	164	169
	Leatherwood, Inc.	2008	536	45	45	45	45	45	45	45	45	45	45	45	41
	Leatherwood, Inc.	2009	1,968	164	164	164	164	164	164	164	164	164	164	164	164
	Leatherwood, Inc.	2010	1,676	140	140	140	140	140	140	140	140	140	140	140	136
	Leatherwood, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
	Leatherwood, Inc.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
	Leatherwood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	Ō	0	0
	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	Ō	0
4704900937	Consolidation Coal Co.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0

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

	API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
	4704900937	Garner & Gawthrop, Inc.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
*	4704900937	Garner & Gawthrop, Inc.	1990	0	0	0	0	0	0	0	0	Ö	Ö	Ö	Õ	ő
1	4704900937	Mutschelknaus, Clarence	1992	13	0	0	0	0	0	0	13	0	0	0	0	o l

2/21/2018						WVGE	S O&	G Rec	ord Re	eportin	g Syst	tem		
4704900937 Mutschelknaus, Clarence	1993	48	0	28	0	0	0	0	20	0	0	0	0	0 l
4704900937 Garner & Gawthrop, Inc.	1994	12 .				12								
4704900937 Mutschelknaus, Clarence	1996	42	0	7	0	0	35	0	0	0	0	0	0	٥l
4704900937 Mutschelknaus, Clarence	1997	39	0	0	0	0	0	0	0	15	0	0	0	24
4704900937 Mutschelknaus, Clarence	1998	40	0	30	0	0	0	0	0	0	0	0	10	0
4704900937 Mutschelknaus, Clarence	1999	29	0	0	0	0	29	0	0	0	0	0	0	o l
4704900937 Mutschelknaus, Clarence	2001	38	0	0	25	0	0	0	0	0	0	0	0	13
4704900937 Mutschelknaus, Clarence	2002	10	0	0	0	0	0	0	0	0	0	0	10	o l
4704900937 Mutschelknaus, Clarence	2003	5	0	0	0	0	0	0	0	0	0	0	5	٥l
4704900937 Mutschelknaus, Clarence	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937 Mutschelknaus, Clarence	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937 Mutschelknaus, Clarence	2006	31	0	0	0	0	0	31	0	0	0	0	0	0
4704900937 Mutschelknaus, Clarence	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937 Leatherwood, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937 Leatherwood, Inc.	2008	48	3	3	3	4	5	4	4	4	5	4	4	5
4704900937 Leatherwood, Inc.	2009	184	4	4	3	7	30	25	4	22	33	41	11	0
4704900937 Leatherwood, Inc.	2010	111	8	10	30	33	30	0	0	0	0	0	0	0
4704900937 Leatherwood, Inc.	2011	141	0	0	0	0	20	23	8	2	7	28	27	26
4704900937 Leatherwood, Inc.	2012	95	9	0	0	0	0	0	0	18	0	30	31	7
4704900937 Leatherwood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937 Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937 Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0]
4704900937 Consolidation Coal Co.	2016	0									_			

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4704900937	Leatherwood, Inc.	2013	_ 0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	Ō	ō
4704900937	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4704900937	Consolidation Coal Co.	2016	0												

Production Water Information: (Volumes in Gallons)

API PRODUCING_OPERATOR PRD_YEAR ANN_WTR JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DCM 4704900937 Consolidation Coal Co. 2016 0

There is no Stratigraphy data for this well

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

There is no Plugging data for this well

There is no Sample data for this well

00937

WW-4A Revised 6-07

1) Date:	FEBRUARY 22, 2018	
2) Operator's Wel	ll Number	
	R-274	

049

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

3) API Well No.: 47 -

((a) Name	S.C. & JENNIE THORNE (c/o PA	TTY STURM) e	et al Name	CONSOLIDATION COAL CO.	
1	Address	492 HEAVENER GROVE RD.		Address	1 BRIDGE STREET	
		BUCKHANNON, WV 26201			MONONGAH, WV 26554	
((b) Name			(b) Coal Ov	vner(s) with Declaration	
	Address			Name		
				Address		
((c) Name			Name		_
	Address			Address		_
6) I1	nspector	SAM WARD		(c) Coal Le	ssee with Declaration	_
	Address	P.O. BOX 2327		Name	Social Willi Decidiation	
1	iduless	BUCKHANNON, WV 26201		Address		_
	Celephone	(304) 389-7583		nuaress		_
Γ	cicpitone					
	THE PE	application to Plug and Abando ts and the plugging work orde	on a Well on r; and	Form WW-4B, which	eived this Form and the following documents: a sets out the parties involved in the work and describes the	e
	(1) The a well is (2) The p. The reason However, y. Take notice accompany. Protection, the Applica	application to Plug and Abando ts and the plugging work order plat (surveyor's map) showing to you received these documents is to ou are not required to take any action that under Chapter 22-6 of the Wo ing documents for a permit to plug with respect to the well at the local	on a Well on c; and he well locate nat you have ri on at all. est Virginia Co and abandon a cion described of the by registered	Form WW-4B, which ion on Form WW-6. Ights regarding the appliance of the undersigned well with the Chief of the attached Applicated or certified mail or december 1.		e. d nl
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Subscribed and sworn before me this day of

OFFICIAL SEAL Notary Public, State of West Virginia JANET L LIEVING

My Commission Expires

Oil and Gas Privacy Notice

199 Broadviow Avenue Fairmont, WV 26554 My commission expires June 13, 2024

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.

WW-9 (5/16)

API Number	47 -	049	 00937
Operator's W	ell N	lo.	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL AND GAS	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMAT	ION PLAN
	OP Code 10950
Watershed (HUC 10) BUFFALO CREEK Quadrangle Gl	LOVER GAP, WV 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed well	work? Yes No √
Will a pit be used? Yes No √	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No V If so,	what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form W	W-9-GPP)
Underground Injection (UIC Permit Number Reuse (at API Number	
Off Site Disposal (Supply form WW-9 for disposal location	SDW
Other (Explain Tanks, see attached letter	SDW 2/28/2018
me belone a plustoma, supreme	
Will closed loop systembe used? If so, describe: Yes. Gel circulated from tank thru w	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, or	oil based, etc. Gel or Cament
-If oil based, what type? Synthetic, petrolcum, etc	
Additives to be used in drilling medium? Bentonite, Blearbonate of Soda	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cu	itting buried on site.
-If left in pit and plan to solidify what medium will be used? (cement, lime,	sawdust) N/A
-Landfill or offsite name/permit number? N/A	
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill West Virginia solid waste facility. The notice shall be provided within 24 hours of rej where it was properly disposed.	l cuttings or associated waste rejected at any jection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GEN on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of I	ERAL WATER POLLUTION PERMIT ISSUED Environmental Protection. I understand that the
provisions of the permit are enforceable by law. Violations of any term or condition	of the general permit and/or other applicable law
or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am f	familiar with the information submitted on this
application form and all attachments thereto and that based on my inquiry of those in	ndividuals immediately responsible for obtaining
submitting false information, I believe that the information is true, accurate, and complete. I a submitting false information, including the possibility of fine or imprisonment.	im aware that there are significant penames to
7:7 41	
Company Official Title Project Engineer	The state of the s
Company Official Title	
Subscribed and sworn before me this 23rd day of February My commission expires August 13, 2024	OFFICIAL SEAL Notary Public, State of West Virginia JANET L LIEVING 199 Brondvlew Avenue Fairmont, WV 28354 My commission expires June 13, 2024
1 /	

Form WW-9

Operator's Well No. R-274

oposed Revegetation Treatm	Tons/acre or to correct	4 to plu 6.0		
		rm hu		
Fertilizer type 10-20				
Fertilizer amount 500)	lbs/acre		
Mulch 2		_Tons/acre		
		Seed Mixture	Ĺ	
Ten	porary		Perm	anent
Seed Type	lbs/acre		Seed Type	lbs/acre
See Attachment	100	See	Attachment	100
laps(s) of road, location, pit rovided). If water from the p	it will be land applied, pr	d application (unl	ess engineered plans incl e, include dimensions (L	uding this info hav
Naps(s) of road, location, pit rovided). If water from the p , W), and area in acres, of t	it will be land applied, pr he land application area. red 7.5' topographic sheet	ovide water volun	e, include dimensions (L	, w, b) of the pit,
faps(s) of road, location, pit rovided). If water from the p L, W), and area in acres, of t hotocopied section of involv	it will be land applied, pr he land application area. red 7.5' topographic sheet	ovide water volun	e, include dimensions (L	, w, b) of the pit,
laps(s) of road, location, pit rovided). If water from the p., W), and area in acres, of the thotocopied section of involving the provided by:	it will be land applied, pr he land application area. red 7.5' topographic sheet	ovide water volun	ess engineered plans inclue, include dimensions (L	, w, b) of the pit,
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Attach: (laps(s) of road, location, pit rovided). If water from the p L. W), and area in acres, of t (hotocopied section of involv Plan Approved by:	it will be land applied, pr he land application area. red 7.5' topographic sheet	ovide water volun	e, include dimensions (L	, w, b) of the pit,

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

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

e-mail: ronnieharsh@consolenergy.com

web: www.coalsource.com

*Name: RONNIE HARSH
*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

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

Romei Nand

RECEIVED Office of Oil and Gas

MAR 1 2018

W Department of Environmental Protection (A) () • 1064 E MRIN HWY 60 HOUSE #2 • MOREHEAD KY 40351 • AMS # 4923



NOTICE TO CONSUMERS

"Notice: Arbitration/concileation/mediation required by several states. Under the seed taws of several states, arbitration, mediation, or conciliation is required as a prorequisite to maintaining a legal action based upon the faiture of seed, to which this notice is attached, to produce as represented. The consumer foral Be a complaint (sworn for AR, FL, IN, MS, SC, TX, WA; signed only CA, ID, ND, SD) along with the required fang lee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner (IN), or Chief Agricultural Officer within such time as to permit inspection of the crops, plants, or trees by the designated agency and the seedsman from whom the seed was purchased. A copy of the complaint shall be went to the seller by certified or registered mail or as otherwise provided by state statue."

NOTICE TO BUYER WE WARRANT
THAT SEEDS WE SELL WILL CONFORM
TO THE LABEL DESCRIPTION REQUIRED
UNDER STATE AND FEDERAL LAWS,
WITHIN RECOGNIZED TOLERANCES, WE
MAKE NO WARRANTIES, EXPRESSED
OR IMPLIED, OF MERCHANTABILITY,
HTINESS FOR PURPOSE, OR OTHERWISE,
WHICH WOULD EXTEND BEYOND SUCH
DESCRIPTIONS, AND IN ANY EVENT OUR
LIABILITY FOR BREACH OF ANY WARRANTY
OR CONTRACT WITH RESPECT TO SUCH
SEED IS LIMITED TO THE PURCHASE
PHICE OF SUCI 1 SFEDS.

		7H1889	
ET WT 50 WEED SEED: .26			
RRIETY GONUM DTOMAC	ORG OR	PURE GERM 29.40 90.00	HARD DORM TEST
	_	11.39 85.00 8.00 00	.00 .00 11/16 .00 .00 11/16
IN STATED	OŘ OR	19.60 85.00 6.40 85.00	.00 .00 11/16 .00 .00 12/16
IMAX IT STATED	CRŇ CRN	3.40 .00 9.80 85.00 2.83 83.00	.00 .00 10/16 .00 .00 11/16 .00 .00 11/16 .00 .00 12/16 .00 .00 12/16 .00 .00 10/16 .00 .00 11/16
MINOLE	OŔ	1.91 .00 3.17 60.00 2	. 00 11/16 25.00 .00 8/16 26.00 .00 8/16
	WEED SEED: .26 RIETY GNUM TOMAC NN T STATED IMAX T STATED	RIETY ORG GNUM OR TOWAC OR NN T STATED OR IMAX CAN T STATED CAN	T UT 50 WEED SEED: .26 RIETY ORG PURE GERM OR 29.40 90.00 TOMAC OR 11.39 85.00 8.00 8.00 8.00 19.60 85.00 0R 6.40 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00 19.60 85.00

Memo Treatments

NOXIOUS WEEDS PER LB:

RECEIVED Office of Oil and Gas

MAR 1 2018

WV Department of Environmental Protection WW-9- GPP Rev. 5/16

N/A

P	age	i	of 2	
API Number 47 -	049	-	00937	
Operator's Well No.	\mathcal{R}	. 2	74	

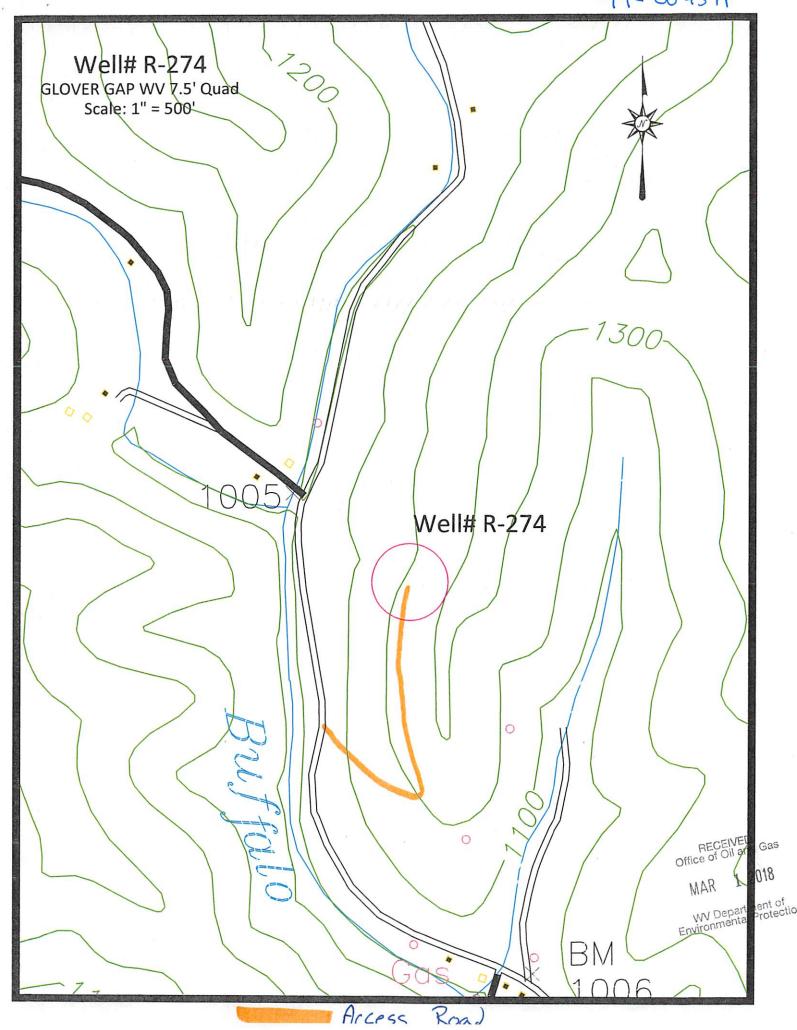
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

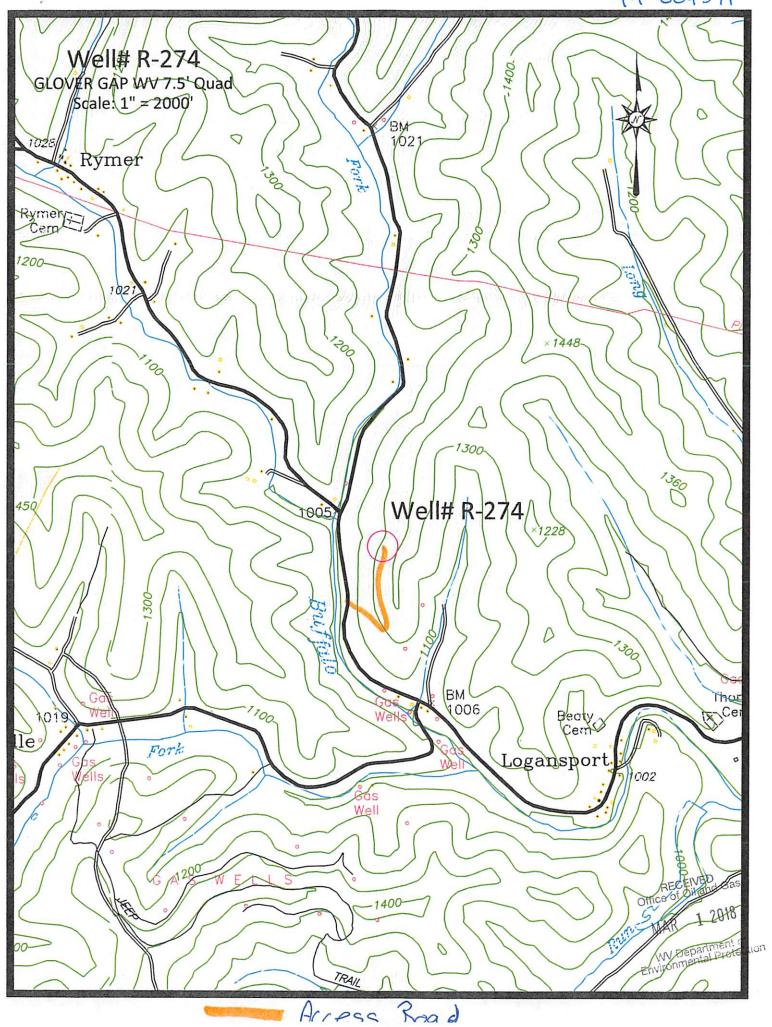
GROUNDWATER PROTECTION PLAN

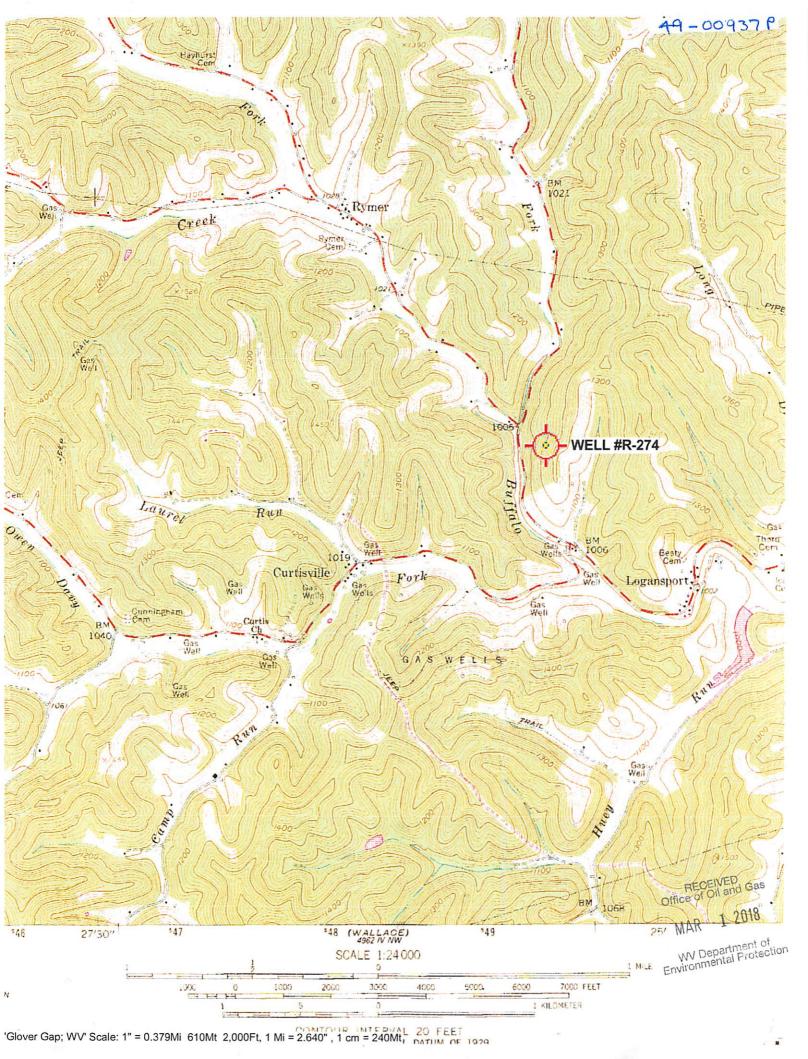
atershed (HUC 10): BUFFALO CREEK	Quad: GLOVER GAP, WV 7.5'
m Name:	
III Nalie.	
List the procedures used for the treatment a groundwater.	and discharge of fluids. Include a list of all operations that could contaminate the
Describe procedures and equipment used to	protect groundwater quality from the list of potential contaminant sources above.
List the closest water body, distance to clodischarge area.	osest water body, and distance from closest Well Head Protection Area to the
	TO EIVED, C
	RECEIVED Office of Oil and
	MAR 1 201
	MAN Wy Departner Environmental Pro
	Environmental Pro
Summing all activities at the facilities that	t are already regulated for groundwater protection.
Summarize an activities at your facility that	are already regulated for groundwater protection.
	ı

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW-9- GPP Rev. 5/16	N/A	API Number 47 - 049 - Operator's Well No. R-274	00937
Provide a statement that no	waste material will be used for deicing o	or fill material on the property.	
 Describe the groundwater provide direction on how to 	protection instruction and training to be prevent groundwater contamination.	e provided to the employees. Job proced	ures shall
. Provide provisions and free	quency for inspections of all GPP element	ts and equipment.	SECEIVED, Gas
r		,	Office of Oil and Gas
			MAR 1 2010 WV Department of Environmental Protes
			Environmenta
Signature:			
Date	20gs		









West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

	CATION FORM.			
API: 47-049-0093	WELL NO	o.:R-274		
FARM NAME: P.G. WES	ST / S.C. THORN	JE		
RESPONSIBLE PARTY NAME:	CONSOLIDATION	COAL COMPANY		
COUNTY: MARION	DISTRICT:			
QUADRANGLE: GLOVEF	R GAP WV 7.5'			
SURFACE OWNER: S.C. & JE	NNIE THORNE (c/o P	ATTY STURM) et al		
ROYALTY OWNER:				
UTM GPS NORTHING: 4,3	75,461 m	(1224')		
UTM GPS NORTHING: 549,	,448 m _{GPS ELE}	_{VATION:} 373 m		
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS × : Post Processed Differential				
Real-Time Differential X				
Mapping Grade GPS: Post Processed Differential				
Real-Time Differential				
4. Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.				
43Le	Professional Surveyo	or FEBRUARY 22, 2018		
Signature /	Title	Date		

