

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

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

Tuesday, April 26, 2022
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 SC 1 47-061-01566-00-00

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.

Operator's Well Number: SC

Farm Name: SIX, RALPH & BETTY JO

U.S. WELL NUMBER: 47-061-01566-00-00

Coal Bed Methane Well Plugging
Date Issued: 4/26/2022

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 conditions may result in enforcement action.</u>

CONDITIONS

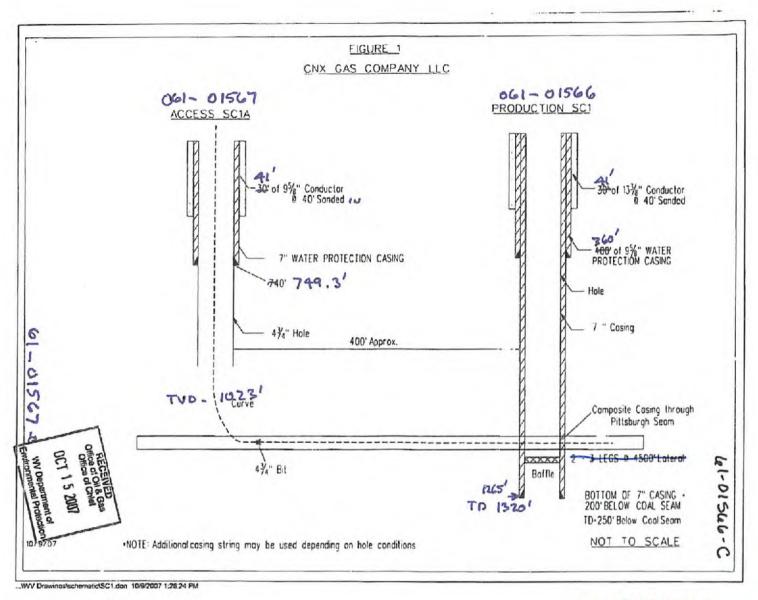
- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars 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.

WW-4B Rev. 2/01

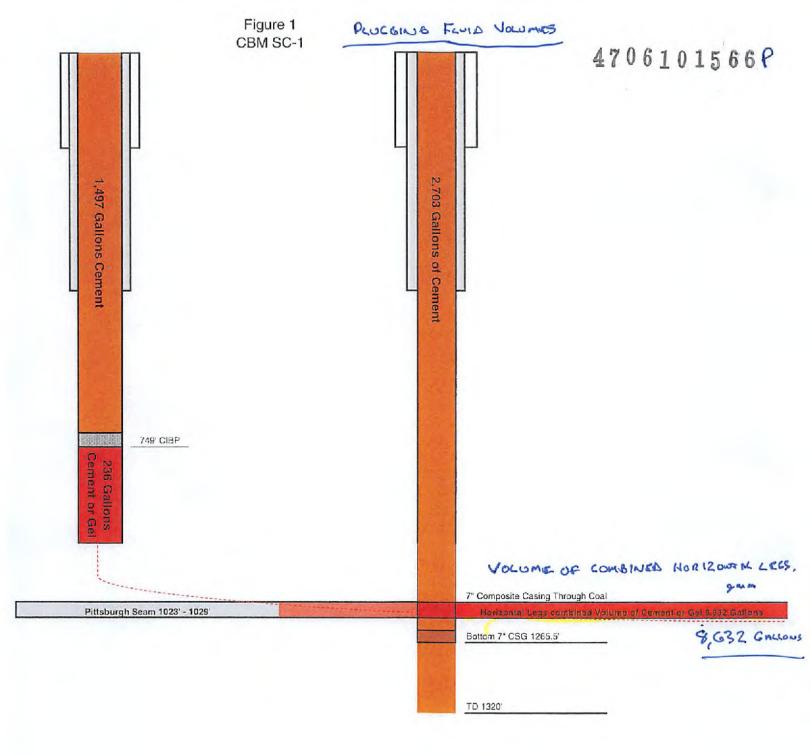
1) Date	DE	CEMB	ER 1	5,	20	21
2) Oper	ator	5				
Well	No.		S	C-1P		
3) API	Well	No.	47-	061	-	01566

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

	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON A COM WELL,
4)	Well Type: Oil/ Gas _ X _/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Und	derground storage) Deep/ Shallow
5)	Location: Elevation 1192.02'	Watershed MIDDLE FORK OF SOUTH FORK OF WEST VIRGINIA FORK OF DUNKARD CREEK
	District BATTELLE	County MONONGALIA Quadrangle WADESTOWN W.VA,PA
6)	Well Operator WEST VIRGINIA LAND RESOURCES INC	7) Designated Agent DAVID RODDY
0,	Address 1 BRIDGE STREET	Address 1 BRIDGE STREET
	MONONGAH, WV 26554	MONONGAH, WV 26554
8)	Oil and Gas Inspector to be notified Name_ BRYAN HARRIS	9) Plugging Contractor Name
	Address P.O. BOX 157	Address_
	VOLGA, WV 26238	
	METHANE PRODUCTION FROM PITTS BU	47 - 061-01567)
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		Environmental Protection
Not:	ification must be given to the district of	



SER HORIZONTAL LEGS ON ATTACHMENTS.



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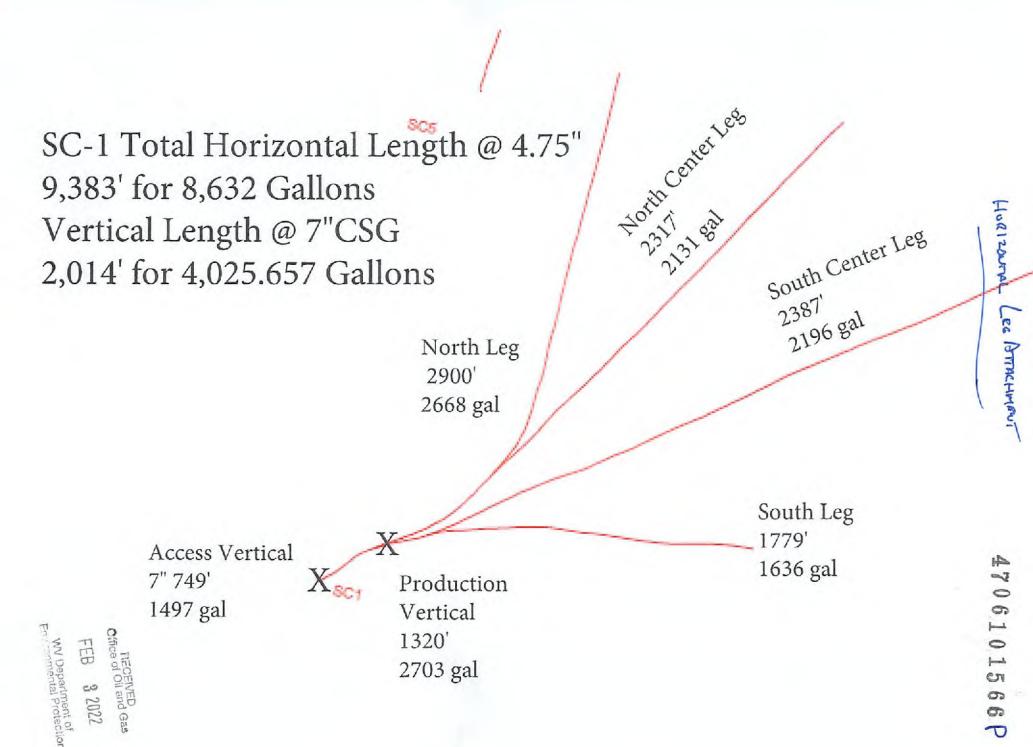


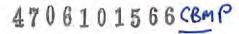
Exhibit Number 1

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.

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FEB 3 2022



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

MSHA IOIC EXEMPTION

Docket No. M-2017-012-C

Petition for Modification

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 standard.

Section 30 C.F.R. § 75.1700 provides:

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.

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.

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. § 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.

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

- a. <u>MANDATORY COMPUTATIONS AND ADMINISTRATIVE</u> PROCEDURES PRIOR TO PLUGGING OR REPLUGGING
 - <u>Probable Error of Location</u> Directional drilling systems rely on 1. 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.
 - Minimum Working Barrier Around Well For purposes of this 2. 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.

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:
 - i. 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.

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.

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.

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.

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.

4. Active Pressure Management and Water Infusion - Reducing the 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.

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.

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.

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.

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.
- 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.
- 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.

- 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.

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.
- 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.

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

Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, or provided by other electronic means this _______ day of _______, 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

bcc: D

District 3

OSRV

D.Braenovich

Case File

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

M-2009-006-C

OPY
Date



WW-9 Rev (2-01)

4706101566 DATE: 6/26/2008 API#: 47-6101566

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

Farm name: Six, Ralph & Betty Jo	Оре	rator Well No	.: <u>SC-1</u>	APR 07 2005
LOCATION: Elevation: 1190'	Qua	drangle: <u>W</u>	adestown	Wy Department of
District: Battelle	Con	intv• M	onongalia	el la constante de la constant
District: <u>Battelle</u> Latitude:Feet So Longitude:Feet West of	outh of 39	Deg. 40	Min. (00 Sec.
Longitude:Feet West of	80 Deg.	20 M	in. 00 Sec.	<u> </u>
Company: CNX Gas Company, LLC				
	Casing & Tubing	Used in drilling	Left in well	Cement Fill Up (# of Sacks)
Address: 4000 Brownsville Road	13-3/8	41'	41'	Sanded In
South Park,PA 15129	9-5/8"	360'	360'	135 Sacks
Agent: Dave Kirtz	7"	1265.5'	1265.5'	180 Sacks
Inspector: Bill Hatfield		 		
Date Permit Issued: 12/19/2007		 		
Date Well Work Commenced: 01/14/2008				
Date Well Work Completed: 02/10/2008				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 1320'				
Fresh Water Depth (ft.): 273'				
C-MANAGE DOWN TO A CONTROL OF THE CO	ļ		<u> </u>	
Salt Water Depth (ft.): N/A	ļ			
Is coal being mined in area (N/Y)? No	 			
Coal Depths (ft.): 677' 930' 1029'		L	<u> </u>	<u> </u>
200 202				
OPEN FLOW DATA				
Producing formation Pittsburgh Coal		depth (ft) _	1023' - 102	29'
Gas: Initial open flow 0 MCF/d Oil	: Initial open fl	ow1	Bbl/d	
Final open flowMCF/d I	Final open flow	/E	bl/d	
Time of open flow between initial and	final tests	Hou	r\$	
Static rock Pressurepsig (surfa	ce pressure) af	terHo	urs	RECEIVED Office of Oil and Gas
Second producing formation	Pay zor	ne depth (ft)_		FEB 3 2022
	Initial open fl		361/d	W Department of
Final open flow MCF/d F	inal open flow		BPNq ∈	nvironmental Protection
Time of open flow between initial and Static rock Pressure psig (surface)		Hou	_	
Static fock Fressurepsig (surface	ce pressure) af	terHo	urs	
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULATII LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE Gas Well DONE SC-1 (API No. 47-610-	NG, PHYSICAI GEOLOGICAI WELLBORE. 1566) is a ho i	. CHANGE, E . RECORD OI rizontal well	TC. 2). THE WIF ALL FORMAT	ELL TIONS,
LLC. Refer to the attached information	for addition	al informat	ion.	a y 7
Signed: Owef Janne	•			
By: Geoff Faming, Drilling Manager Date: June 26, 2008)	- -		

ATTACHMENT A

Monongalia County CBM Well No. SC-1 Prod. Drill Log API #47-6101566

Depth	Description
GL -45	Fill/Dirt
45-90	Clay
90-150	Shale
150-225	Sand
225-270	Shale
270-275	Sand
275-350	Shale
350-450	Sand
450-475	Shale
475-600	Sand
600-675	Shale
675-677	Coal
677-710	Shale
710-720	Sand
720-900	Shale
900-928	Sand
928-930	Coal
930-955	Shale
955-975	Sand
975-1023	Shale
1023-1029	Coal
1029-1320 TD	Shale

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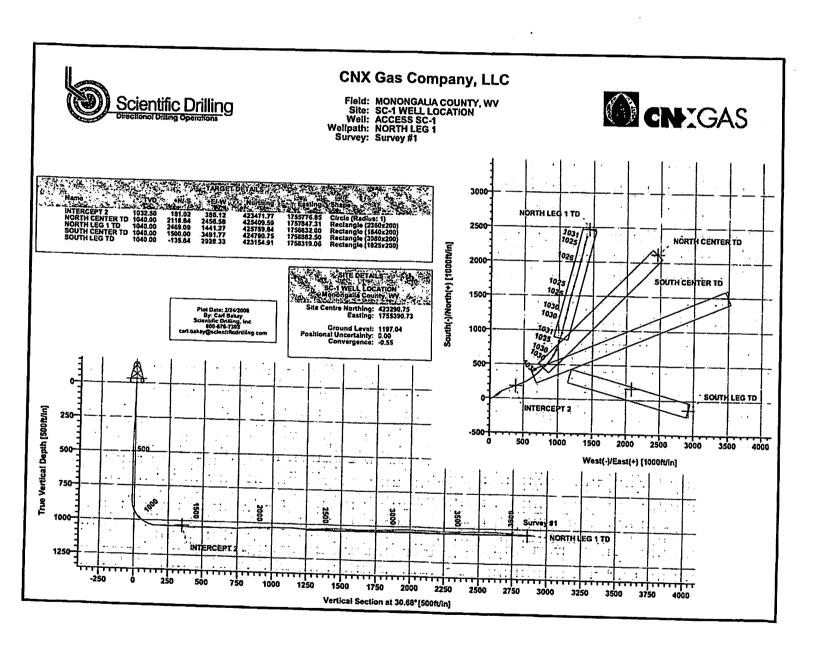
Office of Oil & Gas

JUN 37 2008

WV Department of Environmental Protection

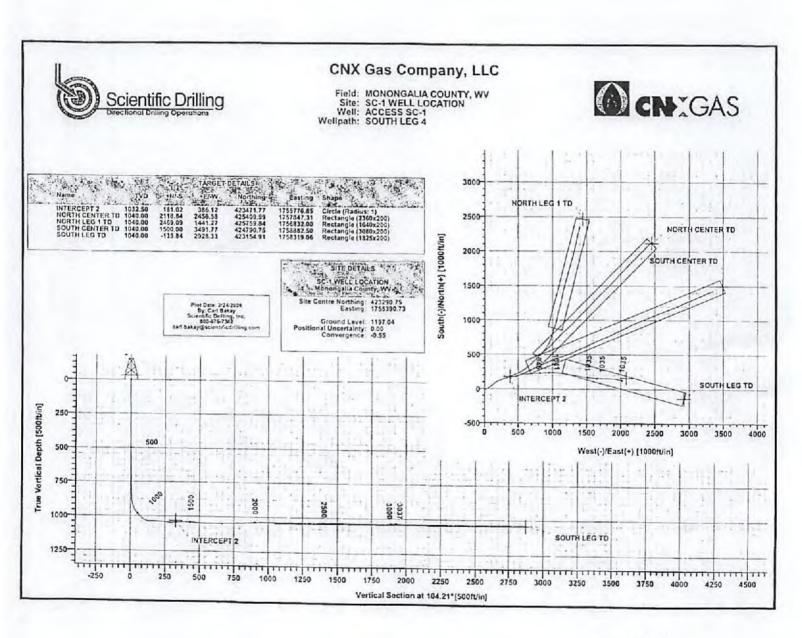
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FEB 3 2022



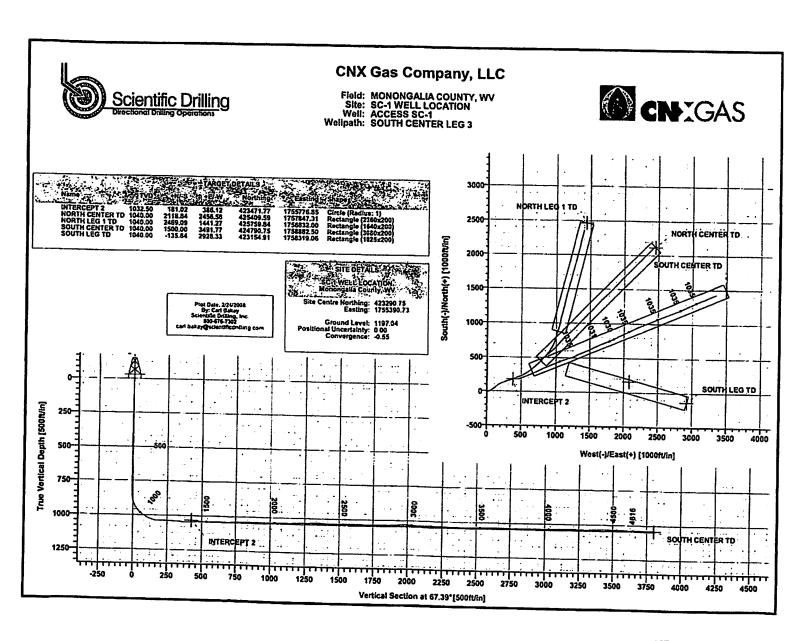
RECEIVED Office of Oil and Gas

FEB 3 2022



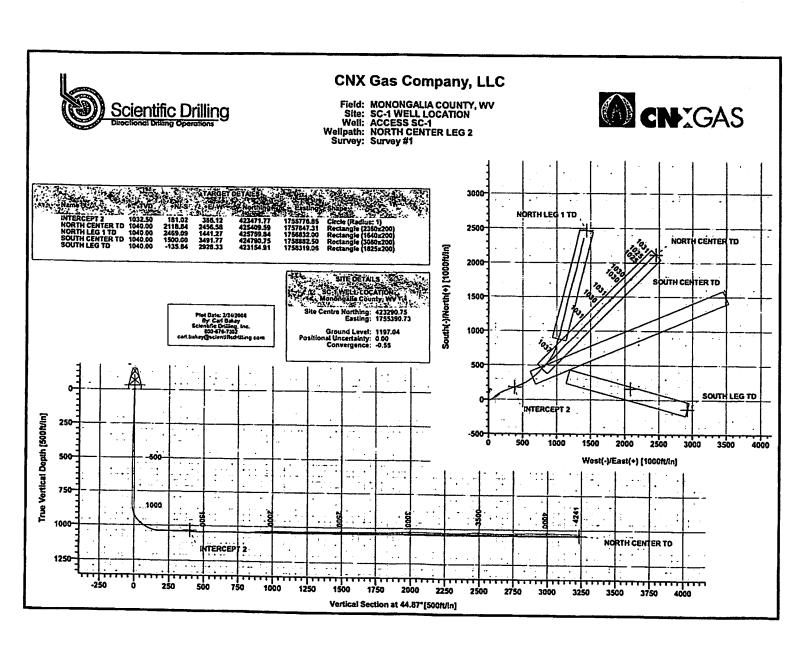
PECEIVED Ciffice of Oil and Gas

FEB 3 2022



PECEIVED Cifice of Oil and Gas

FEB **3** 2022



Ciffice of Oil and Con FEB 3 2022 WW-4A Revised 6-07

1) Date:	DECEMBER 15, 2021	
2) Operator's Well Nun	aber	
23.5.4.6.5.4.4.3.7.7.7.7.5.5.5	SC-1P	
2) ADI Wall No : 47	061 01586	

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

Surface Own	ner(s) to be served:	5) (a) Coal Operator	
(a) Name	GEORGE D. SIX	/ Name	WEST VIRGINIA LAND RESOURCES INC.
Address	11023 MASON DIXON HWY	Address	1 BRIDGE STREET
	BURTON, WV 26562		MONONGAH, WW 26554
(b) Name		(b) Coal Ow	vner(s) with Declaration
Address		Name	E
		Address	
(c) Name		Name	
Address		Address	
6) Inspector	BRYAN HARRIS	(c) Coal Les	ssee with Declaration
a) Trippoore	A THOUGHT CONTRACTOR OF THE STATE OF THE STA	(b) Cour Lice	
Address	P.O. BOX 157	Name	
The state of the s	P.O. BOX 157 VOLGA, WV 26238		-
Address Telephone	VOLGA, WV 25238 (304) 553-6087	Name Address	eived this Form and the following documents:

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA F Duane Dilly 105 Pleasant Valley Drive Reedsville, WV 28547
My Commission Expires November 22, 2026Telephone

Well Operator WEST VIRGINIA LAND RESOURCES INC. DAVID RODDY PROJECT ENGINEER

RECEIVED Cifice of Oil and Gas 1 BRIDGE STREET 3 2022 MONONGAH, WV 26554 FEB (304) 534-4748

Environmental Protection

Subscribed and sworn before me this

day of

ddress

Notary Public

My Commission Expires Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

47061015666

U.S. Postal Service CERTIFIED MAIL® RECEIPT **H209** For delivery information, visit our website at www.usps.com®. 5070 Extra Services & Fees (check box, add fee as appropriate) Mus Brown Return Receipt (hardcopy) Postmark Rotum Receipt (electronic) Here Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery \$ Postage 0.160 Total Postage and Fees Sent To George L.
Tetrael and Apl. Nov. or PO Box No. 7019 City, State, zib+4 Bw ton PS Form 3800, April 2015 PSN 7630-02-000-8017 2650

> RECEIVED Office of Oil and Gas

FEB 3 2022

API No.	47-061-01566
Farm Name	
Well No.	SC-1P

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

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

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

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

	WAIVER
has examined this proposed plugging work	_/ owner/ lessee/ of the coal under this well location order. The undersigned has no objection to the work proposed to be perator has complied with all applicable requirements of the Wests.
Date: 12-29-21	Its Designated Agent

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FEB 3 2022

4706101566	P)
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API Number 47 -	061	-	01566
Operator's Well No.			

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) MDDLE FORK OF SOUTH FORK OF WEST VIRGINIA FORK OF DUNKARD CREEK Quadrangle WADESTOWN 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 ✓	
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 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. Gelon	
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting 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 cuttings or associate West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee it was properly disposed.	ed waste rejected at any ittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PO on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Prote provisions of the permit are enforceable by law. Violations of any term or condition of the general permit or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the info application form and all attachments thereto and that, based on my inquiry of those individuals immediatel the information. I believe that the information is true, accurate, and complete. I am aware that there a submitting false information, including the possibility of fine or imprisonment.	ction. I understand that the and/or other applicable law ormation submitted on this by responsible for o btaining
Company Official Signature	RECEIVED
Company Official (Typed Name) David Roddy	Cince of Citations
Company Official Title Project Engineer	FEB 3 ZUZZ
	WV Department of Environmental Protection
Subscribed and swom before me this 29th day of December , 20 2	
Toware Siley Notary Public	
My commission expires 11/22/26	

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) 926-0459 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

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Lime 3	Tons/acre or to correct to p	6.0	
Fertilizer type 10-20	-20 or equivalent		
Fertilizer amount 500		lbs/acre	
Mulch 2	Toi	ns/acre	
	<u>s</u>	eed Mixtures	
Temp	porary	Perman	ient
Seed Type	lbs/acre	Seed Type	lbs/acre
See Attachment	100	See Attachment	160
flaps(s) of road, location, pit at rovided). If water from the pit w, W), and area in acres, of the	will be land applied, provide e land application area.	lication (unless engineered plans includ water volume, include dimensions (L,	ing this info have been
laps(s) of road, location, pit as rovided). If water from the pit water from the pit water, W), and area in acres, of the motocopied section of involved an Approved by:	will be land applied, provide a land application area. d 7.5' topographic sheet.	lication (unless engineered plans includ	ing this info have been W, D) of the pit, and dimens
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Attach: Alaps(s) of road, location, pit as rovided). If water from the pit as, W), and area in acres, of the hotocopied section of involved lan Approved by: Somments:	will be land applied, provide a land application area. d 7.5' topographic sheet.	lication (unless engineered plans includ water volume, include dimensions (L,	ing this info have been W, D) of the pit, and dimens

• 1864 € MRIN HUY 68 HOUSE +2 • MOREHEAD KY 48351 • RMS # 4923

NOTICE TO CONSUMERS

"Notice: Arbitration/conditation/mediation required
by several states. Under the seed laws of several
states, inbaration, mediation, or conditation is states, arbitation, mediation, or consistent is required as a prorequisite to maintaining a legal action based upon the between deed, to which this notice is attached, to produce as represented. The consumer shall be a complaint power for AR, FL, IN, MS, SC, TX, WA, signed only CA, ID, ND, SC) along with the required sing be (where applicable) with the Commissions (Directoris Secretary of Agricultura, Seed Commissions' FN, or Chief Agricultural Colour within such time as to permit respection of the crope, plants, or trees by the Gessynated agency and the seedstansal from whom designated agency and the seedsman from whom the send was purchased. A copy of the complaint shall be sent to the seder by cartifed or registered mad or an otherwise provided by state status."

...

NOTICE TO BUYER WE WARRANT THAT SEEDS WE SRLL WILL CONFORM TO THE LABEL DESCRIPTION REQUIRED UNIDER STATE AND FEDERAL LAWS, WITHIN RECOGNIZED TO LERANCES, WE MITHINE CURINZED TOLERANCES. WE MAKE NO WARRANTES. BOPRESSED OF IMPUED, OF MERCHANTARUTY, FITNESS FOR PURPOSE, OR OTHERANSE, WHICH WOULD DITIEND BEYOND SUCH DESCRIPTIONS, AND IN JUNY EVENT CUR LABULITY FOR BREACH OF ANY WARRANTY OR OTHERANCE WARRANTY CONTRACTOR OF COMPANY TO MAKE ANY CONTRACTOR OF COMPANY TO MAKE ANY WARRANTY OR COMPANY TO MAKE ANY WARRANTY OR COMPANY THE PROPERTY OF THE PROPERT OR CONTRACT WITH FIESFECT TO SUCH SEED IS LIMITED TO THE PURCHASE PHICE OF SUCH SEEDS.

MIXTURE-CORSTAL SEED 2015 LOT NO:711000 CROP: .SB INERT: 1.56 LEED SEED:		THI COS			
	INERT: 1.56 WEED SEED:	.26			
KIND ANNIMI RYEGRASS ORCHARDGRASS CLOHARDGRASS CLOHARDGRASS CLOUER PERENNIMI RYEGRASS CLOUER CONTING MATERIAL TIMOTHY BIRDSFOOT TREFOIL CONTING MATERIAL LADIND CLOUER CONTING MATERIAL CONTING MATERIAL CONTING MATERIAL CONTING MATERIAL	VARIETY HAGNIM POTOMAC LINN NOT STATED CLIMAX NOT STATEO SEMINGLE		. 50. 225. 825. 825. 825. 825. 825. 825. 825	PURE GERM HRR 29-40 50.00 .00 .00 .00 .00 .00 .00 .00 .00	20 19716 20 19716 20 11/16 20 11/16 20 12/16 20 12/16 20 12/16 20 11/16 20 11/16 20 11/16

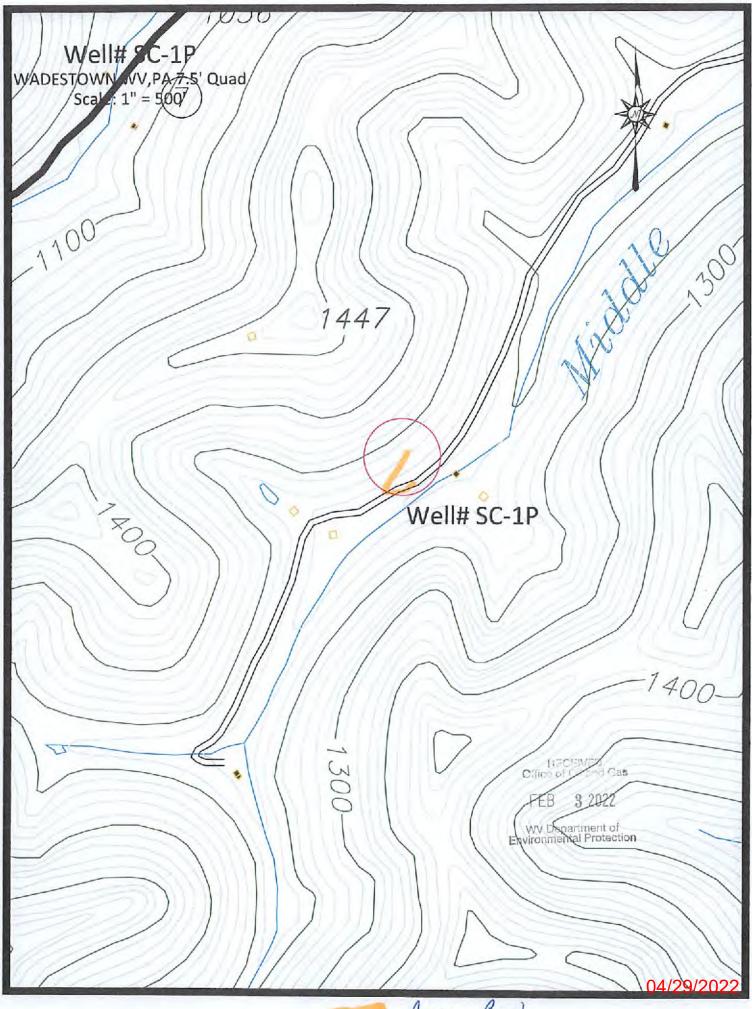
Hemo Treatments

NOXIOUS NEEDS PER LB:

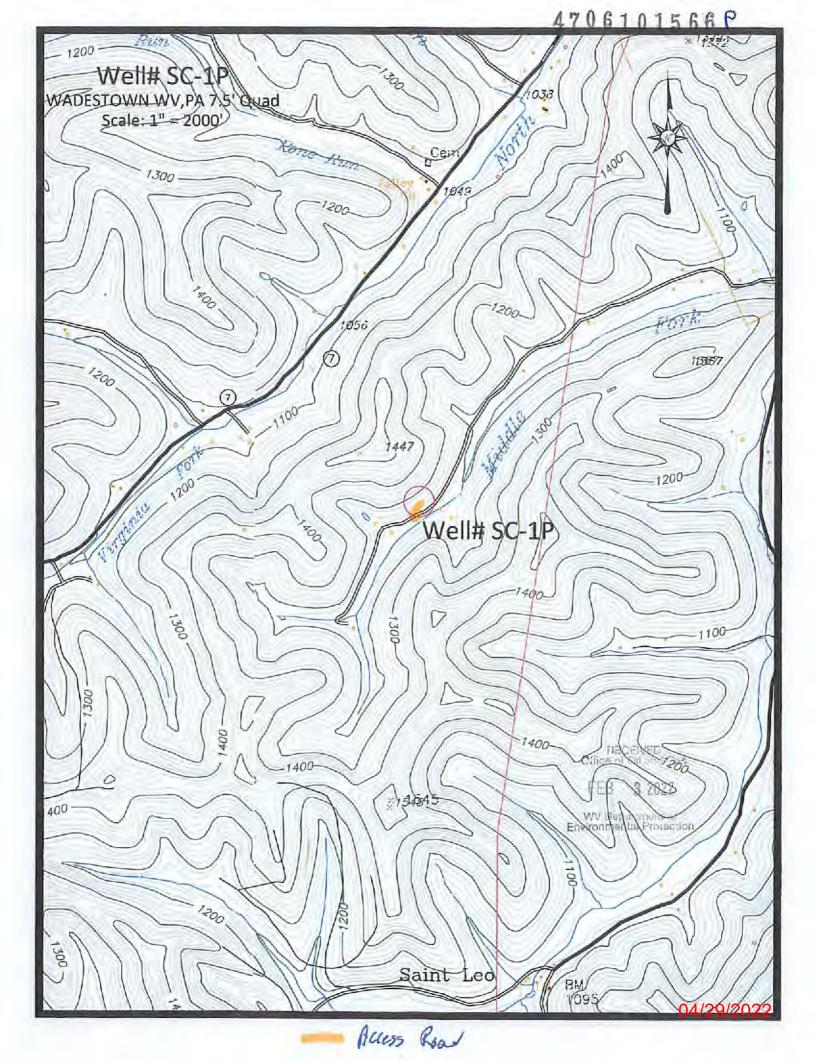
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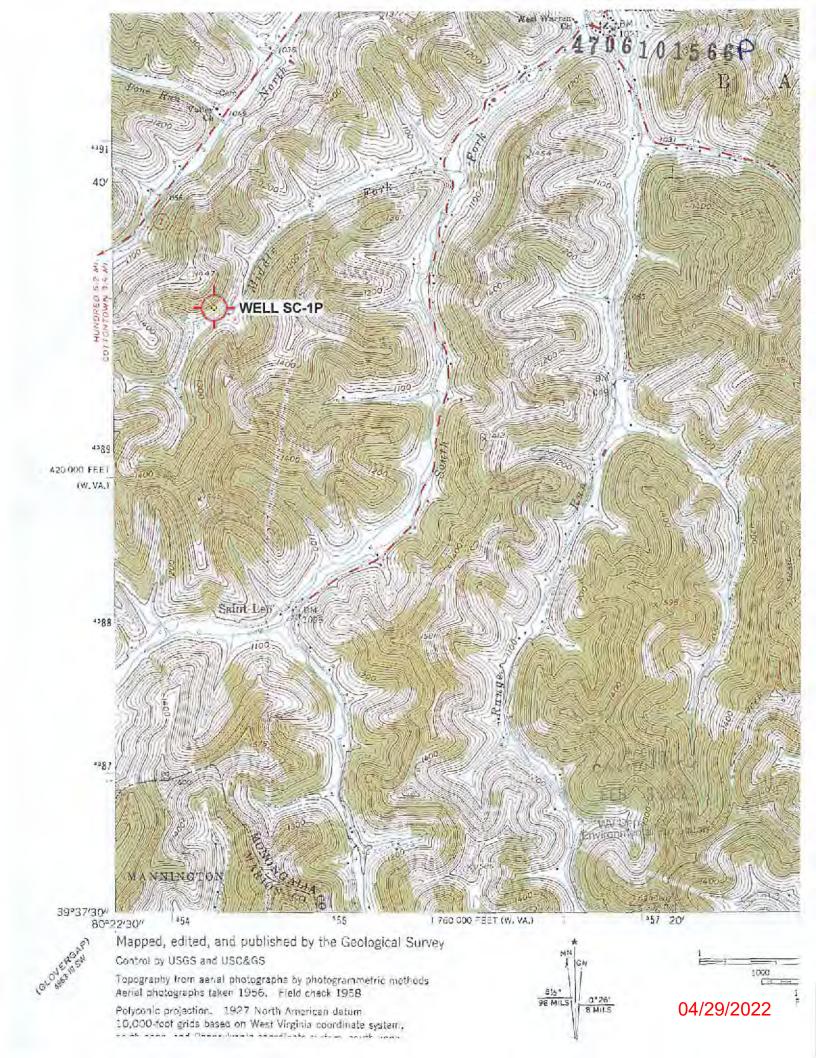
4706101566P



Access Grow









West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-061-0	1566	_ WELL NO.:_	SC-1P	
FARM NAME: RALPH	& BETTY J	O SIX		
RESPONSIBLE PARTY NAM			SOURCES INC.	
COUNTY: MONONO				
QUADRANGLE: WADI				
SURFACE OWNER: GEC				
ROYALTY OWNER:		The Control of the Co		
UTM GPS NORTHING: 4	,390,160 m		(mar')	
UTM GPS EASTING: 55	54,281 m	GPS ELEVAT	_{ION:} 363 m	
The Responsible Party named a preparing a new well location p above well. The Office of Oil at the following requirements: 1. Datum: NAD 1983, height above mean s 2. Accuracy to Datum	lat for a plugging pend Gas will not acco Zone: 17 North, Co ea level (MSL) – m – 3.05 meters	ermit or assigned A ept GPS coordinate ordinate Units: me	API number on the es that do not meet eters, Altitude:	CEIVED f Oil and Gas
 Data Collection Met Survey grade GPS X: Po 		ential	FEB	3 2022
Re	eal-Time Differentia	al X	WV De Environme	partment of intal Protection
Mapping Grade GPS:	Post Processed Dif	ferential		
	Real-Time Differe	ntial		
4. Letter size copy of a lithe undersigned, hereby certification belief and shows all the information prescribed by the Office of Oil.	y this data is correct ation required by law	to the best of my	knowledge and	
presented by the office droit	Jila Ollo.			
presented by the office droit.		nal Surveyor	DECEMBER 15, 2021	



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permit API: 47-061-01566)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Apr 26, 2022 at 12:20 PM

To: Jay Hores <jayhores@coalsource.com>, David Roddy <davidroddy@coalsource.com>, Mark Musick <mmusick@assessor.org>, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-061-01566 - SC 1

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

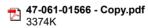
Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments



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