

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

Wednesday, February 17, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED RESOURCES, INC. 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re:

Permit approval for J. NESTOR 14

47-091-01139-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: J. NESTOR 14

Farm Name: NESTOR, JR., JAMES E.

U.S. WELL NUMBER: 47-091-01139-00-00

Vertical Plugging
Date Issued: 02/17/2021

I

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) Dat	e Decei	mber 2	21	20 20	
2) Ope					
Wel	l No.	J. Nesto	ır #14		
3)API	Well	No.	47-91	- 01139	

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

APPLICATION FOR A	PERMIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas/ Li	quid injection/ Waste disposal/
(If "Gas, Production or	Underground storage) Deep/ Shallow X
5) Location: Elevation 1550	Watershed Glade Run
District Knottsville	County Taylor Quadrangle Thornton (638)
D' (5 1 D	
6) Well Operator Diversified Resources, Inc.	
Address P.O. Box 6070	Address P.O. Box 6070
Charleston, WV 25362	Charleston, WV 25362
8) Oil and Gas Inspector to be notified	
Name Bryan Harris	Name Coastal Drilling East, LLC
Address P.O. Box 157	Address 130 Meadows Ridge Road
Volga, WV 26238	Mt. Morris, PA 15349
See Exhibit Nos. 1 and 2 and MSHA 101	-C Exemption RECEIVED Office of Oil and Gas JAN 0 6 2021 WV Department of Environmental Protection
Appropriate coal seam top = 410.01	1'
Approximate coal seam bottom = 4	16.56'
Notification must be given to the district work can commence.	oil and gas inspector 24 hours before permitted
Work order approved by inspector Buye	Harm Date 1-4-21



EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, ICG Tygart Valley, LLC 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 seam.
- c) Circulate through tubing or drill steel an expanding cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel from 100 feet above coal seam to surface.

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

SHALLOWEST MINEABLE COAL IS 260' - 265'

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EXHIBIT #2

Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349

Phone 304-296-1120 Fax 304-413-0061

"A Shaft Drillers International Company"

12/09/20

Mr. Chuck Duckworth, on behalf of Diversified Gas & Oil Corporation Gas Well & Property Manager Arch Coal, Inc. - Leer Mine Complex 100 Tygart Drive Grafton, WV 26354

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Mr. Duckworth,

WV Department of Environmental Protection

Below is the proposed plugging plan we discussed that can be used on wells similar to the wells we have been plugging for the last few years. This is the procedure we will generally utilize to plug 47-091-01139.

Plugging Plan

- Move to site, rig up, mix mud, drill rathole
- Bullhead well and maintain static well head pressures
- Removed all of the 1 ½" tubing from surface to (5088')
- Clean out well to original total depth (5607').
- Run cement bond log on 4 ½" casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond log.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 ½" casing from the free point determined by the bond log.
- Clean out wellbore to top of remaining 4 ½" casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 50' of the bottom of the 7" casing.
- If necessary cut and pull any free casing.
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition for the Leer Mine.
- Multiple cuts may be required to be placed with both the bonded 7" and 9 5/8" casing strings. The cuts will be placed in 18" increments through the mining area in the Lower Kittanning Coal Seam.
- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition for the Leer Mine.
- Rig down and set monument as required by WV DEP.

face area will be available. The fire hose will be located near the working face.

(5) Sufficient supplies of roof support and ventilation materials will be available and located near the working face. In addition, an emergency plug and/or plugs will be available within the immediate area of the well intersection.

(6) Equipment involved in mining through the well will be checked for permissibility and serviced on the maintenance shift prior to mining through the well. The methane monitor on the continuous mining machine involved in mining through the well will also be calibrated on the maintenance shift prior to mining

through the well.
(7) When mining is in progress, tests for methane will be made with a handheld 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. During the actual cutting-through process, no individual will be allowed on the return side until mining-through has been completed and the area has been examined and declared safe.

(8) The working area will be free from accumulations of coal dust and coal spillages, and rock dust will be placed on the roof, rib, and floor to within 20 feet of the face when mining through the

well

(9) When the well is intersected, all equipment will be deenergized and the place thoroughly examined and determined safe before mining is

(10) Any casing will be removed and no open flame will be permitted in the area until adequate ventilation has been

established around the well.

(11) After a well has been intersected and the working place determined safe, mining will continue inby the well at a distance sufficient to permit adequate ventilation around the area of the well. (12) No person will be permitted in

the area of the mining-through operation except those actually engaged in the operation, company personnel, personnel from MSHA, and personnel

from the Kentucky OMSI

(13) The mining-through operation will be under the direct supervision of a certified individual. Instructions concerning the mining-through operation will be issued only by the certified individual in charge. MSHA personnel may interrupt or halt the mining through operation when necessary for the safety of the miners. (14) Within 30 days after this Order

becomes final, the petitioner will submit (Oil and gas wells).

proposed revisions for its approved mine emergency evacuation and firefighting plan required by 30 CFR 75.1501. The petitioner will revise the plans to include the hezards and evacuation procedures to be used for well intersections.

The petitioner further states that this petition will apply to all types of mining (conventional, continuous, and longwall) and asserts that the proposed alternative method will at all times provide a measure of protection no less than that of the existing standard.

Docket Number: M-2012-064-C. Petitioner: Lone Mountain Processing, Inc., Drawer C, St. Charles, Virginia 24282.

Mine: Mine No. 1, MSHA I.D. No. 15-18734, Route 636 Benedict Road, St. Charles, Virginia 24282, located in Harlan County, Kentucky.

Regulation Affected: 30 CFR 75.208

(Warning devices).

Modification Request: The petitioner requests a modification of the existing standard to permit a readily visible warning to be posted at the second row of permanent roof support outby unsupported roof or a physical barrier to be installed to impede travel beyond permanent support, except during the installation of roof supports. The petitioner states that:

(1) The Kentucky Office of Mine Safety and Licensing requires "a warning device to be installed on the second row of permanent roof support

outby unsupported roof,"
(2) MSHA's approved Precautions for Remote Control Operation of Continuous Mining Machines states that "While using remote controls, the continuous mining machine operator and all other persons will position themselves no closer than the second full row of installed roof bolts outby the face."

(3) This petition is necessary to improve safety and to attain commonality between State and Federal

regulations.

(4) Safety increases when the distance an employee keeps from unsupported

roof increases.

The petitioner asserts that the proposed alternative method will at all times guarantee no less than the same measure of protection afforded by the existing standard.

Docket Number: M-2012-065-C. Petitioner: ICG Tygert Valley, LLC, 1200 Tygart Drive, Grafton, West Virginia 26354.

Mine: Tygart #1 Mine, MSHA I.D. No. 46–09192, located in Taylor County, West Virginia.

Regulation Affected: 30 CFR 75.1700

Modification Request: The petitioner requests a modification of the existing standard requiring that barriers be established and maintained around oil and gas wells penetrating coalbeds or underground areas of coal mines to permit an alternative method of compliance. The petitioner states that:

(1) The mine is projected to encounter vertical in-seam boreholes, typical to oil and natural gas wells, as mine

development progresses.
(2) The active development section is approaching these boreholes, and is projected to encounter additional boreholes in the future as mining

operations continue.

(3) The procedure presented in this petition will be used to ensure that mining through these boreholes is accomplished safely and, as an alternative to compliance with 30 CFR 75.1700, will provide no less than the same measure of protection to the miners, as required by the MSHA standard.

The petitioner proposes to use the following procedures when plugging oil

or gas wells:

1) Prior to plugging an oil or gas well, a diligent effort will be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole will be cleaned out to a depth that 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 will be mede to remove all of the casing in the borehole. If it is not possible to remove all of the casing, the casing that remains will 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 will 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 its place.

The District Manager may allow the use of other effective methods of stopping any and all gas flow emitting from the wellbore before placement of cement through the minable coal seam(s). Such approval will be documented in a written response to the operators' submittal of a detailed explanation of the method to be used

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and an engineering evaluation of the relative effectiveness of the elternative.

(4) A suite of logs will 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

(5) If the uppermost hydrocarbonproducing 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 paragraph (3) above will be used to isolate the hydrocarbon-producing stratum from the expanding coment plug. Nevertheless, a minimum of 200 feet of expanding cement will be placed below the lowest minable coal bed

(6) The wellbore will 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 will be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borebole or bridge plug

The petitioner proposes to use the following procedures when plugging gas

and oil wells to the surface:

(1) A cement plug will be set in the wellbore by pumping 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. There will be at least 200 feet of expanding cement below the base of the lowest minable coal bed.

(2) A marker conforming to the requirements of the state regulatory authority will be installed at the borehole, or a small quantity of steel turnings or other small magnetic particles will be embedded in the top of the cement near the surface. The method used will be suitable to serve as a permanent magnetic monument of the borehole.

The following procedures will be used for the vent pipe method for

plugging oil and gas wells:

(1) A 4½-inch or larger pipe will be run into the wellbore to a depth of 100 feet below the lowest mineble coal bed and wedged to a smaller diameter pipe that, if desired, 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 will be set in the wellbore by pumping expanding cement slurry, Portland cement, or a Portland coment-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and

the vent pipe will 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 will extend upward to a point approximately 100 feet above the top of the lowest minable coal bed.

(3) All fluid will be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement will not be

disturbed.

(4) The top of the vent pipe will 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

The petitioner proposes to use the following procedures when plugging oil or gas wells for subsequent use as

degasification boreholes:

A cement plug will be set in the wellbore by pumping 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 expanding cement will extend upward to a point above the top of the coal bed being mined. This distance will 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. will 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 will be cemented from a point immediately above the slots or perforations to the surface.

(4) The degasification casing will be cleaned out for its total length.

(5) The top of the degasification casing will 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.

The following alternative procedures for preparing and plugging oil and gas wells will apply to wells that the petitioner and the District Manager agree cannot be completely cleaned out due to damage to the well caused by subsidence, caving, or other factors; as determined by the petitioner and agreed to by the District Manager. These provisions will apply unless alternative measures are agreed upon and based upon a plan submitted to the District

(1) The petitioner will drill a hole adjacent and parallel to the well to a depth of at least 200 feet below the lowest minable coal seam.

(2) The petitioner will use a geophysical sensing device to locate any casing that may remain in the well.

(3) If the well contains casing(s), the petitioner will drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the petitioner will perforate or rip all casings at intervals of at least 5 feet. Beyond this distance, the petitioner will perforate or rip at least every 50 feet from at least 200 feet below the base of the lowest minable coal seam up to 100 feet above the seam being mined. The petitioner will fill the annulus between the cesing, and between the casings and the well wall with expanding cement (minimum 0.5 percent expansion upon setting), and will ensure that these areas contain no voids. If the petitioner, using a casing bond log, can demonstrate to the satisfaction of the District Manager that the annulus of the well is adequately sealed with cement, then the petitioner will not be required to perforate or rip the casing for that particular well or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing that remains will be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating

multiple strings.
(4) Where the petitioner determines and the District Manager agrees that there is insufficient casing in the well to allow the method outlined in paragraph (3) above to be used, then the petitioner will use a horizontal hydraulic fracturing technique to intercept the original well. From at least 200 feet below the base of the lowest minable coal seam to a point at least 50 feet above the seam being mined, the petitioner will fracture at least six places at intervals to be agreed upon by the petitioner and the District Manager after considering the geological strata and the pressure within the well. The petitioner will then pump expanding cement into the fractured well in sufficient quantities and in a menner

that fills all intercepted voids.
(5) The petitioner will prepare downhole logs for each well. The logs will consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon-producing strata and the location for the bridge plug. The petitioner may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment

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necessary to obtain the log. The District Manager may approve the use of a down-hole cameral survey in lieu of down-hole logs if, in his or her judgment, such logs would not be suitable for obtaining the data or are impractical to obtain due to the condition of the drill hole. A journal will be maintained describing the length and type material used to plug the well; the length of casing(s) removed, perforated, or ripped or left in place; and other pertinent information concerning sealing the well.

(6) After the petitioner has plugged the well, the petitioner will plug the open portions of both holes from the bottom to the surface with Portland cement or a lightweight cement mixture. The petitioner will embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 41/2-inch or larger casing set in cement will extend at least 36 inches above the ground level. A combination of the methods outlined in paragraph (3) and (4) above may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The petitioner and the District Manager may discuss the nature of each hole and the District Manager may require the use of more than one method.

The petitioner proposes to use the following cut-through procedures whenever the safety barrier diameter is reduced to a distance less than the District Manager would approve pursuant to § 75.1700 or the petitioner proceeds with an intent to cut through

a plugged well:

(1) Prior to reducing the safety barrier to a distance less than the District Menager would approve or proceeding with intent to cut through a plugged well, the petitioner will notify the District Manager.

(2) Mining in close proximity to or through a plugged well will be done on a shift approved by the District

Manager.

(3) The District Manager, a representative of the miners, and the appropriate States agency will be notified by the operator in sufficient time prior to the mining-through operation to provide an opportunity for them to have a representative present.

(4) When using continuous mining equipment, drivage sights will be installed at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sights will not be more that 50 feet from the well. When using longwall mining methods, drivage sights will be installed on 10-foot centers for a distance of 50 feet in advance of the well bore. The drivage sights will be installed in the

headgate and tailgate.

(5) Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining-through will be available when either the conventional or continuous mining method is used. The fire hose will be located in the last open crosscut of the entry or room. All fire hoses will be ready for operation during the mining-through.

(6) Sufficient supplies of roof support and ventilation materials will be available and located at the last open crosscut. In addition, an emergency plug and/or plugs will be available in the immediate area of the cut-through.

(7) The quantity of air required by the approved mine ventilation plan, but not less than 6,000 cubic feet per minute (cfm) of air for scrubber-equipped continuous miners or not less than 9,000 cfm for continuous miner sections using auxiliary fans or line brattice only, will be used to ventilate the working face during the mining-through operation. The quantity of air required by the ventilation plan, but not less than 30,000 cfm, will reach the working face of each longwall during the miningthrough operation.

(8) Equipment will be checked for permissibility and serviced on the shift prior to mining-through the well. The methane monitors on the continuous mining machine or the longwall shear and face will be calibrated on the shift prior to mining through the well.

(9) When mining is in progress, tests for methane will be made with a handheld 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, tests for methane will 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 will be allowed on the return side until mining through has been completed and the area has been examined and declared safe.

(10) When using continuous mining methods, the working area will be free from accumulations of coal dust and coal spillages, and rock dust will 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, rockdusting will be conducted and placed

on the roof, rib, and floor up to both

headgate and tailgate gob.
(11) When the wellbore is intersected, all equipment will be deenergized and the area thoroughly examined and determined safe before mining is resumed. Any well casing will be removed and no open flame will be permitted in the area until adequate ventilation has been established around the wellbore.

(12) After a well has been intersected and the working area determined safe. mining will continue inby the well at a distance sufficient to permit adequate ventilation around the area of the

(13) No person will 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.
(14) The mining-through operation will be under the direct supervision of a certified official. Instructions concerning the mining-through operation will be issued only by the certified official in charge. MSHA personnel may interrupt or halt the mining-through operation when necessary for the safety of the miners.

(15) The petitioner will 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.

(16) Within 60 days after the Proposed Decision and Order (PDO) becomes final, the petitioner will submit proposed revisions for its approved 30 CFR Part 48 training plan to the District Manager. The provisions will include initial and refresher training regarding compliance with the terms and conditions stated in the PDO

The petitioner asserts that the proposed alternative method will at all times guarantee miners no less than the same measure of protection as afforded

by the existing standard.

Docket Number: M-2012-002-M. Petitioner: Hecla Greens Creek Mining Company, P.O. Box 32199, Juneau, Alaska 99803.

Mine: Greens Creek Mine, MSHA I.D. No. 50-01267, located in Juneau

County, Alaska.

Regulation Affected: 30 CFR 57.14130 (Roll-over protective structures (ROPS) and seat belts for surface equipment).

Modification Request: The petitioner requests a modification of the existing standard to permit employees to be transported 1,600 feet to and from the surface dry facility to work sites underground using underground mine

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State of West Virginia Department of Environmental Protection Office of Oil and Gas

11/9/2009 API #:47-091-01139

Well Operator's Report of Well Work

Both

Perm name	1	Nestor,		Operator	r Well	No.:	_	14		
LOCATIO	N: Elevation:_		1550-	_Quadran	gie:			Thornton		
	District:	Kn	ottsville	County:				Toules		
	Latitude:	4.030			Deg.	20	Min.	Taylor 0 Sec		
	Longitude:	4,220	Feet West of	79	Deg.		Min.		-	
Company:	Texas Keystone	Inc.								
				Casing & Tubing	k	Used in drilling		Left in well	Cemen Cu. Ft.	ıt fill uı
Address:										
	Pittsburgh, PA	5238								
	Jon Farmer			13 3/	8"	42		42	Sand	ied In
	Bryan Harris	-								
Date Permi		05/2	7/09	9 5/8	77	461		461	1	60
Date Well	Work Commend Work Complete	ed: 10/0	6/09 -	-	_					
Verbal Plu		10/1	2/09 *	7"	_	122	4	1224	1	85
	ssion granted o			4.10	19	_			-	
	X Cable			4 1/2	_			5202	1 2	77
Total Depti	A CHOIR	7		11/					-	
	er Depth (ft.):			1 1/2	_			5088	-	0
	0. 570				_	_	_		\vdash	
	Depth (ft.):									
Is coal bein	g mined in the s	rea (N/Y)?	N		_		_		-	_
	s (ft.): 260								_	
	EN FLOW DAT		3rd Elk			Pay zone	Denti	· (0)	5092 - 50	006
	Gas: Initial open		Z/S TSTM					nitial open flov		
	Final open flow		119					inal open flow		Bbl/
	Time of open flo	w between	initial and final te	ets:		Hours		•		
	Static rock Press	ure:			_	psig(surf	ice pro	essure) after	12	_Hour
	Second Producin					Pay zone	Depth	(ft)	4786 - 47	790
	Gas: Initial open		Co-mingled			MCF/D	Qil: 1	nitial open flov	w: 0	Bbl/c
	Final open flow		Co-mingled				Oil: F	inal open flow	: 0	Bbl/d
			initial and final te	vis:		Hours				_
	Static rock Press	ure: <u>C</u>	Co-mingled		_	paig(surf	oc pro	essure) after		_Hour
	Third Producing					Pay zone	Depth	(ft)	4144 - 4	148
	Gas: Initial open	_	Co-mingled					nitial open flov		BbVd
	Final open flow		o-mingled				Oil: F	inal open flow	: 0	Bbl/d
			initial and final te	ds:	_	Hours				
	Static rock Press	ure: <u>{</u>	co-mingled			psig(surfa	ce pre	ssure) after		Hour

Pay zone Depth (ft)

Pay zone Depth (ft)

N/A Hours

N/A Hours

MCF/D Oil: Initial open flow:

MCF/D Oil: Final open flow:

MCF/D Oil: Initial open flow: 0 Bbl/d MCF/D Oil: Final open flow: 0 Bbl/d

psig(surface pressure) after

psig(surface pressure) after

2948 - 2982

1908 - 1918

_BPN9

0 Bbl/d

- Hours

- Hours

NOTE: ON BACK OF THIS FORM PUT THE FOIL OWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DEVAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBOKE.

Fourth Producing formation: Balltown B

Time of open flow between initial and final tests:

Time of open flow between initial and final tests:

Co-mingled

Co-mingled

Co-mingled

Co-mingled

Co-mingled

Co-mingled

Gordon

Gas: Initial open flow:

Static rock Pressure:

Gas: Initial open flow:

Static rock Pressure:

Fifth Producing formation:

Final open flow

Final open flow

Signed:	LX MIST	7
By: Pa	Herzing (Chief Operating Offices)	
Date:	11-12-09	-

Well Fractured: 10/21/09

Perfed 3rd Elk 5092' - 5096' (12 shots). BD 3979 #. 160 sks 20/40. 462 bbl. Gel Frac. Perfed 2nd Elk 4786' - 4790' (12 shots). BD 3976 #. 265 sks 20/40. 907 bbl. Gel Frac. Perfed Benson 4144' - 4148' (12 shots). NO BREAK.

Perfed Bailtown B 2948' - 2956' (8 shots), 2964' - 2968' (4 shots) & 2976 - 2982' (6 shots). BD 2794 #. 355 sks 20/40. 853 bbl. Gel Frac.

Perfed Gordon 1908' - 1918' (20 shots). BD 3101 #. 275 sks 20/40. 663 bbl. Gel Frac.

ROCK DESCRIPTION	TOP DEPTH	BOTTOM DEPTH	NOTES
PILL	0	15	
SANDSTONE	15	82	
SANDY SHALE	82	140	DAMP FW @ 100°
SHALE	140	260	•
COAL	260	265	
SHALE	265	320	
COAL	320	325	
SHALE	325	410	
SANDY SHALE	410	470	
SANDSTONE	'470	510	
COAL	510	515	
SANDSTONE	515	530	
COAL	530	535	
SANDY SHALE	535	735	DAMP FW @ 570°
COAL	735	740	21 1 11 8 274
SANDY SHALE	740	870	
REDROCK SHALE	870	930	
SANDSTONE	930	1050	
SHALE	1050	1129	
LITTLE LIMB	1129	1146	
- PENCIL CAVE SHALE	1146	1166	
BIG LIME	t 166	1365	
SHALE	1365	1396	
SQUAW SANDSTONE	1396	1420	
SHALE	1420	1457	
WEIR SANDSTONE	1457	1500	
SHALE	1500	1645	
GANTZ SANDSTONE	1645	1692	
Sandy Shale	1692	1903	
GORDON SANDSTONE	1903	1923	
SHALE	1923	2058	
SANDY SHALE	2058	2409	
SPEECHLEY A SANDSTONE	2409	2457	
SANDY SHALE	2457	2940	
BALLTOWN A SANDSTONE	2940	3000	
SHALE	3000	3013	
BALLTOWN B SANDSTONE	3013	3048	
SHALE	3048	3836	
Sandy Shale	3836	4138	
BENSON SILSTONE	4138	4150	GAS SHOW @ 4145' TSTM
SANDY SHALE	415Q	4405	4113 113 10111
SHALE	4405	4520	
ELK SILTSTONE	4520	4542	
SANDY SHALE	4542	4765	
2ND ELK SILTSTONE	4765	4797	
SHALE	4797	4855	
SANDY SHALE	4855	5077	
3RD ELK SILTSTONE	5077	5114	
SHALE	5114	5607	TD

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WW-4A Revised 6-07

(a) Name

Oil and Gas Privacy Notice

4) Surface Owner(s) to be served:

James E. Nestor, Jr

1)	Date:	Dece	amber 21, 2020
2)	Operator's	Well	Number
J. Ne	stor#14		

3) API Well No.: 47 -

CoalQuest Development, LLC

91 - 01139

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

5) (a) Coal Operator

Name

	6388 Knottsville Road		Address	100 Tygart Drive
	Thornton, West Virginia 2	6440		Grafton, West Virginia 26354
(b) Name			(b) Coal Ow	mer(s) with Declaration
Address			Name	**
	1500 Statement access or the Additional of State and Sta	aana, amugu ayaa ayaa ayaa ayaa ayaa ayaa ayaa a	Address	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			Month	
(c) Name			Name	
Address			Address	
Address			- 71001030	
6) Inspector	Bryan Harris	- AND CONTRACTOR OF THE CONTRA	(c) Coal Les	ssee with Declaration
Address	P.O. Box 157		Name	IN TO THE AN OFFICE OF PACE AS A SECOND
Tuuteba	Volga, WV 26238		Address	
Telephone	(304) 553-6087		Mulicos	
тетерионе	(304) 303-0037		-	
(2) The The reason However, y Take notic accompany	e that under Chapter 22-6 of ying documents for a permit to with respect to the well at the	wing the well location its is that you have righ by action at all. the West Virginia Code to plug and abandon a with location described on	nts regarding the applic t, the undersigned well rell with the Chief of the the attached Application	cation which are summarized in the instructions on the reverses side, operator proposes to file or has filed this Notice and Application and e Office of Oil and Gas, West Virginia Department of Environmental on and depicted on the attached Form WW-6. Copies of this Notice,
the Applic	ation, and the plat have been cumstances) on or before the constances			livered by hand to the person(s) named above (or by publication in
the Applic	cumstances) on or before the o			livered by hand to the person(s) named above (or by publication in
the Applic	cumstances) on or before the o	lay of mailing or deliver	ry to the Chief	livered by hand to the person(s) named above (or by publication in
RECEIVED Office of Oil and G	cumstances) on or before the c	Well Operator	ry to the Chief Diversified Resources,	livered by hand to the person(s) named above (or by publication in
the Applic	cumstances) on or before the c	Well Operator By:	Diversified Resources, Jeff Mast	livered by hand to the person(s) named above (or by publication in
RECEIVED Office of Oil and G	cumstances) on or before the c	Well Operator By: Its:	Diversified Resources, Jeff Mast Director Production P.O. Box 6070	ivered by hand to the person(s) named above (or by publication in
RECEIVED Office of Oil and G	cumstances) on or before the c	Well Operator By: Its:	Diversified Resources, Jeff Mast Director Production	ivered by hand to the person(s) named above (or by publication in

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

SURFACE OWNER WAIVER

Operator's Well Number

. Ne	stor	#14					
------	------	-----	--	--	--	--	--

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature RECEIVED Office of Oil and Gas	Date	Name By Its	Date
JAN 06 2021		Signature	Date

A Subsidiary of



ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

November 18, 2020

James E. Nestor, Jr. 6388 Knottsville Road Thornton, West Virginia 26440

Re: Plugging Permit - API # 47-91-01139 - Well No. J. Nestor #14

Dear Mr. Nestor:

As required by the permit process of the WV Department of Environmental Protection – Office of Oil and Gas enclosed please find a copy of the plugging permit application for the above referenced well that ICG Tygart Valley, LLC plans to submit on behalf of Diversified Resources, Inc. to the WV Department of Environmental Protection, Office of Oil and Gas.

If you have no objection to the plugging, permit application, please sign the page, titled Surface Owner Waiver and return in the enclosed self-addressed stamped envelope.

If you should have any questions concerning this application, please feel free to contact Charles Duckworth at (304) 265-9704 or me at (304) 265-9778 or via email at gnair@archrsc.com.

Sincerely.

Greg Nair

Manager Surface Mine Planning

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V/V Department of Environmental Protection

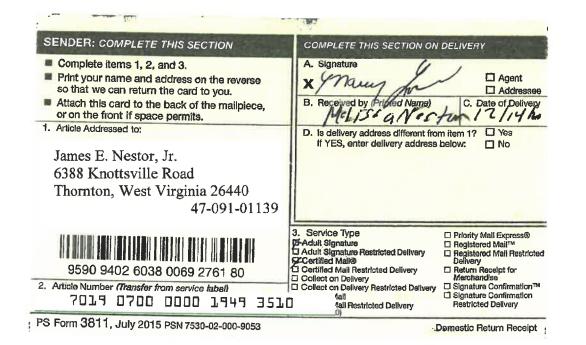
Enclosures

CERTIFIED MAIL NO. 7019 0700 0000 1949 3510 RETURN RECEIPT REQUESTED



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JAN 06 2021



API No.	47-091-01139 (
Farm Name	James E. Nestor, Jr.	
Well No.	J. Nestor #14	

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 wo	/ owner/ lessee/ of the coal under this well location ork order. The undersigned has no objection to the work proposed to be ll operator has complied with all applicable requirements of the West ions.
Date: 1 4 2021	CoalQuest Development, LLC
	By: Greg Nair
	Its Power of Attorney

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POWER OF ATTORNEY

COALQUEST DEVELOPMENT LLC TO GREG NAIR

Dated: January 1, 2021

Expires: December 31, 2021

KNOW ALL MEN BY THESE PRESENTS: That CoalQuest Development LLC, a limited liability company formed under the laws of the State of Delaware (the "Company"), acting by and through Rosemary L. Klein, its duly authorized Vice President, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period herein specified, and subject to the restrictions and limitations set forth in this Power, to execute, acknowledge and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety, and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates, gas well plugging applications, shallow well drilling permit applications, or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Resources, Inc. or any subsidiary thereof, or until December 31, 2021, or until such earlier time as this instrument has been revoked, annulled, rescinded or set aside by an instrument of revocation filed with the Secretary of the Company, whichever first occurs.

IN WITNESS WHEREOF, the Company has caused this Power of Attorney to be executed on its behalf, and its seal to be hereunto affixed as of the day and year first above written, by the undersigned, Rosemary L. Klein, duly authorized Vice President of the Company.

COALQUEST DEVELOPMENT LLC

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Office of Oil and Gas

JAN 06 2021

WV Department of Environmental Protection Rosemary L. Klein

Vice President

STATE OF MISSOURI)	
)	SS
COUNTY OF ST. LOUIS)	

On this Aladay of December, 2020, before me, the undersigned notary public, personally appeared Rosemary L. Klein, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

My Commission Expires: 11/8/2024

SARAH TRIBOUT
Notary Public, Notary Seal
State of Missouri
Franklin County
Commission # 03385705
My Commission Expires 11-08-2024

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JAN 06 2021

WW-9 (5/16)

API Number	47 - 091	_ 01139
Operator's W	ell No. J. I	Vestor #14

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Diversified Resources, Inc.	OP Code	
Watershed (HUC 10) Glade Run	Quadrangle Thornton (638)	
Do you anticipate using more than 5,000 bbls of water to co	omplete the proposed well work? Yes	No 🗸
Will a pit be used? Yes No		
If so, please describe anticipated pit waste: N/A		CARACTERISA P
Will a synthetic liner be used in the pit? Yes	No 🗸 If so, what ml.?	му дицин б алды — «Антабранда улдамарууда», «Адмируумуний
Proposed Disposal Method For Treated Pit Wastes	s:	DECEMEN
Land Application (if selected pro	ovide a completed form WW-9-GPP)	RECEIVED Office of Oil and Gas
Underground Injection (UIC Pe	ermit Number	JAN 0 6 2021
Reuse (at API NumberOff Site Disposal (Supply form	WW-9 for disposal location)	automatic part of
Other (Explain Tanks - See attac	ched letter	WV Department of Environmental Protection
Will closed loop systembe used? If so, describe: Yes, Gel Drilling medium anticipated for this well (vertical and horiz		
-If oil based, what type? Synthetic, petroleum, etc	·	
Additives to be used in drilling medium? Bentonite, Bicarbon	nate or Soda	
Drill cuttings disposal method? Leave in pit, landfill, remove		
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? ICG Tyga	art Valley, LLC - Permit No. O-2017-06	
Permittee shall provide written notice to the Office of Oil ar West Virginia solid waste facility. The notice shall be provimere it was properly disposed.		
I certify that I understand and agree to the terms a on April 1, 2016, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, based the information, I believe that the information is true, accisubmitting false information, including the possibility of fin. Company Official Signature Company Official (Typed Name)	t Virginia Department of Environmental Pro of any term or condition of the general per hally examined and am familiar with the lonmy inquiry of those individuals immedia urate, and complete. I am aware that the	otection. I understand that the mit and/or other applicable law information submitted on this ately responsible for obtaining
· ·	Exercision of the control of the con	, mandry generalizations is
Company Official Title Director Production		
Subscribed and sworp before me this 21 day of thousand the day of	f December , 20 20 NOTARY PUBLIC, STATE OF WAS Thomas Gregory Nai 22 Web Annie Morgantown, W 26504 My Commission Engliss Discumber	ST WIREMIA IT

Proposed Revegetation Treatm	nent: Acres Disturbe	d 1.50 / 2.0 Prev	eg etation pH	
Lime 3	Tons/acre or to c	orrect to pH 6.5	red	
Fertilizer type 10-20	0-20 or equivalent		RECEIVED	
Fertilizer amount 500		Ibs/acre	RECEIVED Office of Oil and Gas	
Mulch_Hay Bales		Tons/acre	JAN 0 6 2021	
		Seed Mixtures	WV Department of Environmental Protection	
Tem	nporary		Permanent	
Seed Type	lbs/acre	Seed T		
Orchard Grass	12	Orchard Gra	ss 12	
Landino Clover	3	Landino Clove	er 3	
Timothy	10	Timothy	10	
Attach: Maps(s) of road, location, pit a	and proposed area for it will be land applied	land application (unless engineered	plans including this info have h	
Attach: Maps(s) of road, location, pit a rovided). If water from the pi	and proposed area for it will be land applied be land application are	land application (unless engineered), provide water volume, include dime	plans including this info have h	
Attach: Maps(s) of road, location, pit a rovided). If water from the pi L, W), and area in acres, of the hotocopied section of involve	and proposed area for it will be land applied the land application are the d 7.5' topographic sh	land application (unless engineered), provide water volume, include dime a.	plans including this info have bensions (L, W, D) of the pit, and	
Attach: Maps(s) of road, location, pit a rovided). If water from the pi L, W), and area in acres, of the hotocopied section of involve	and proposed area for it will be land applied be land application are and 7.5' topographic sh	land application (unless engineered), provide water volume, include dime	plans including this info have b ensions (L, W, D) of the pit, and	
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Attach: Maps(s) of road, location, pit a rovided). If water from the pi L, W), and area in acres, of the hotocopied section of involve lan Approved by:	and proposed area for it will be land applied be land application are and 7.5' topographic sh	land application (unless engineered provide water volume, include dimental.	plans including this info have b ensions (L, W, D) of the pit, and	
Attach: Maps(s) of road, location, pit a rovided). If water from the pi L, W), and area in acres, of the hotocopied section of involve lan Approved by:	and proposed area for it will be land applied be land application are and 7.5' topographic sh	land application (unless engineered provide water volume, include dimental.	plans including this info have b ensions (L, W, D) of the pit, and	

November 18, 2020

WV Department of Environmental Protection Office of Oil and Gas 601 – 57th Street, S.E. Charleston, West Virginia 25304

To Whom It May Concern:

As per the WV Department of Environmental Protection, Office of Oil and Gas request, Diversified Resources, Inc., submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil and Gas Pit Waste Discharge Application), Diversified Resources, Inc., 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 ICG Tygart Valley, LLC DEP impoundment facilities O-2017-06 or to an approved facility that can handle the material.

Sincerely,

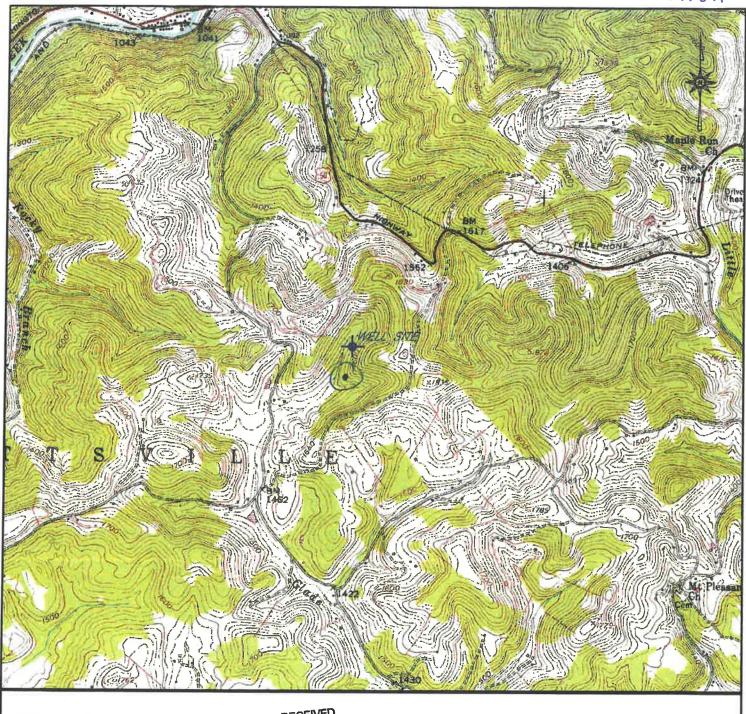
Jeff Mast

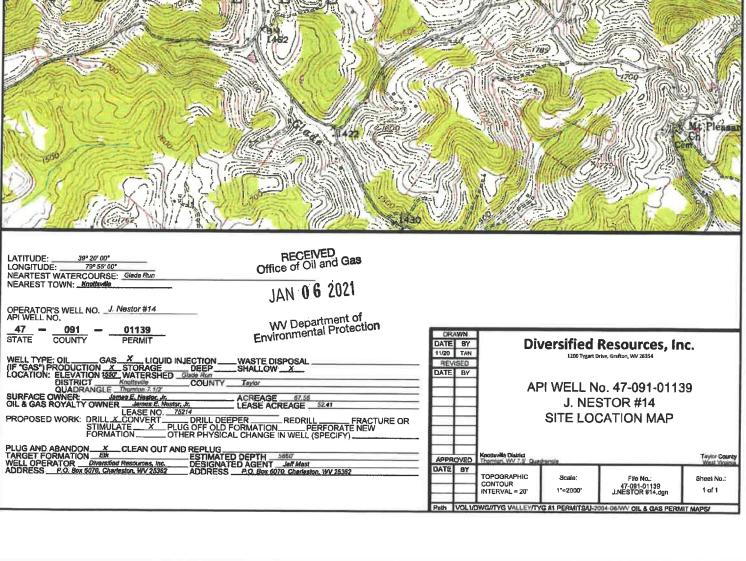
Director Production

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Office of Oil and Gas

JAN 06 2021

47-091-011398







West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API:	WELL NO.	J. Nestor #14
FARM NAME: James E. Neste	or, Jr.	
RESPONSIBLE PARTY NA	ME: Diversified Resources, Inc.	
COUNTY: Taylor	DISTRICT: Kr	nottsville
QUADRANGLE: Thornton		
SURFACE OWNER:		
ROYALTY OWNER: James		,
UTM GPS NORTHING: 4353		
UTM GPS EASTING: 592121	.283 GPS ELEVA	ATION: 1545.01'
preparing a new well location plabove well. The Office of Oil arthe following requirements: 1. Datum: NAD 1983, height above mean set above mean set. 2. Accuracy to Datum - 3. Data Collection Methods Survey grade GPSX: Post Reserved.		d API number on the lates that do not meet meters, Altitude: Office of Oil and Gas JAN 0 6 2021 W Department of
wapping Grade Gr 3	Real-Time Differential	
I the undersigned, hereby certify	the topography map showing the this data is correct to the best of matter than the regular tion required by law and the regular	ry knowledge and
Signatur	Title	Date