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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 18, 2018

WELL WORK PLUGGING PERMIT  
Vertical Plugging

CONSOLIDATION COAL COMPANY  
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for M-1658  
47-051-01683-00-00

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: M-1658  
Farm Name: MCELROY COAL COMPANY  
U.S. WELL NUMBER: 47-051-01683-00-00  
Vertical Plugging  
Date Issued: 6/18/2018

## PERMIT CONDITIONS

ORIGINALLY

47-051-30444

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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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 MAY 4, 20 18  
2) Operator's Well No. M-1658  
3) API Well No. 47-051-3044

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil      / Gas X / Liquid injection      / Waste disposal      /  
(If "Gas, Production      or Underground storage     ) Deep      / Shallow     

5) Location: Elevation 1271.18 Watershed NORTH FORK OF GRAVE CREEK  
District CAMERON County MARSHALL Quadrangle CAMERON, WV, PA 7.5'

6) Well Operator CONSOLIDATION COAL COMPANY 7) Designated Agent DAVID RODDY  
Address 1 BRIDGE STREET Address 1 BRIDGE STREET  
MONONGAH, WV 26554 MONONGAH, WV 26554

8) Oil and Gas Inspector to be notified Name JAMES NICHOLSON  
Address P.O. BOX 44  
MOUNDSVILLE, WV 26041  
9) Plugging Contractor Name Coastal Drilling  
Address 130 Meadow Ridge Road, Suite 24  
Mt. Morris, PA 15349

10) Work Order: The work order for the manner of plugging this well is as follows:

See Exhibit No. 1

‡  
MSHA 101 C EXEMPTION  
FOR U-113383

WELL WAS ORIGINALLY  
API 47-051-3044

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Office of Oil and Gas  
JUN 06 2018  
WV Department of  
Environmental Protection

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

Work order approved by inspector *James Nicholson* Date 5/23/18

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Seed Mix in accordance with WVDEP Oil and Gas, Erosion and Sediment Control Field Manual

Seed Mix in accordance with WVDEP Oil and Gas, Erosion and Sediment Control Field Manual

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_


Title: Oil & Gas Inspector Date: 5/23/18  
Field Reviewed?  Yes  No

## EXHIBIT NO.1

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

SOLID PLUG METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- ★ (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.  $\approx 997'$ .
- (c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

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

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

U. S. Department of Labor

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

MSHA 101C EXEMPTION

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MAY 18 1989

MICHAEL R. PEELISH



MAY 15 1989

U-113383

In the matter of  
 McElroy Coal Company  
 McElroy Mine  
 I.D. No. 46-01437

Petition for Modification

Docket No. M-88-199-C

PROPOSED DECISION AND ORDER

On October 17, 1988, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's McElroy Mine, located in Marshall 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.

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

Finding of Fact and Conclusion of Law

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

On the basis of the petition and the findings of MSHA's investigation, McElroy Coal Company is granted a modification of the application of 30 CFR 75.1700 to its McElroy Mine.

ORDER

Wherefore, pursuant to the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and pursuant to Section 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C., sec. 811(c), it is ordered that McElroy Coal Company's Petition for Modification of the application of 30 CFR 75.1700 in the McElroy Mine is hereby:

GRANTED, conditioned upon compliance with all provisions of the Petitioner's alternative method and the following terms and conditions:

I. Procedures to be utilized when plugging gas or oil wells.

(a) Cleaning out and preparing oil and gas wells. Prior to plugging an oil or gas well, the following procedure shall be followed:

- (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
- (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest mineable coalbed.
- (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest mineable coalbed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
- (4) A suite of logs shall be made consisting of a caliper survey directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest mineable coalbed and potential hydrocarbon producing strata and the location for the bridge plug.
- (5) If the uppermost hydrocarbon-producing stratum is within 200 feet of the base of the lowest mineable coalbed, properly placed mechanical bridge plugs or a suitable brush plug described in subparagraph (a)(3) shall be used to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest mineable coalbed.
- (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of

gas, supports the walls of the borehole, and densifies the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.

(b) Plugging oil or gas wells to the surface. The following procedures shall be utilized when plugging gas or oil wells to the surface:

- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest mineable coalbed to the surface with an expanding cement plug extending from at least 200 feet below the lowest mineable coalbed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
- (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.

(c) Plugging oil or gas wells using the vent pipe method. The following procedures shall be utilized when using the vent pipe method for plugging oil and gas wells:

- (1) A 4 1/2-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest mineable coalbed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
- (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expand-



ing cement for a minimum of 200 feet below the base of the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest mineable coalbed.

- (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
  - (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- (d) Plugged gas wells for use as degasification boreholes. The following procedures shall be utilized when plugging oil or gas wells for subsequent use as degasification boreholes:
- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point above the top of the coalbed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.
  - (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
  - (3) The annulus between the degasification casing and the borehole wall shall be cemented from a point immediately above the slots or perforations to the surface.
  - (4) The degasification casing shall be cleaned out for its total length.
  - (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shutin valves, sampling

ports, flame arrestor equipment, and security fencing.

- II. The following procedures shall apply to mining through a plugged oil or gas well:
- (a) The operator shall notify the District Manager or designee:
    - (1) Prior to mining within 300 feet of the well; and
    - (2) When a specific plan is developed for mining through each well.
  - (b) The MSHA District Manager or designee shall conduct a conference prior to mining through any plugged well to review and approve the specific procedures for mining through the well. Representatives of the operator, the representative of the miners, and the appropriate State agency shall be informed, within a reasonable time prior to the conference, and be given an opportunity to attend and participate. This meeting may be called by the operator.
  - (c) Mining through a plugged well shall be done on a shift approved by the District Manager or designee.
  - (d) The District Manager or designee, representative of the miners, and the appropriate State agency shall be notified by the operator in sufficient time prior to the mining through operation in order to have an opportunity to have representatives present.
  - (e) When using continuous or conventional mining methods, drivage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well and again, if necessary to ensure that the sight line is not more than 50 feet from the well.
  - (f) Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. When the longwall mining method is implemented, the fire hose shall be extended to the face area of the mine through. All fire hoses shall be ready for operation during the mining through.

- (g) Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs, shall be available within the immediate area of the cut through.
- (h) The quantity of air required by the approved ventilation system and methane and dust control plan, but not less than 9,000 cubic feet of air per minute shall be used to ventilate the working face during the mining through operation. On longwall sections, a minimum of 20,000 cfm shall be used to ventilate the working face during the mining through operation.
- (i) Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well.
- (j) The methane monitor on the longwall, continuous mining machine, or cutting machine and loading machine shall be calibrated on the shift prior to mining through the well.
- (k) When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine, cutting machine, or loading machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 10 feet of the well. During the actual cutting through process, no individual shall be allowed on the return side until mining through has been completed and the area has been examined and declared safe.
- (l) 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 to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- (m) When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until

adequate ventilation has been established around the wellbore.

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

The terms and conditions of this Proposed Decision and Order shall supersede conflicting provisions in the Petitioner's proposed alternative method.

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

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

  
 \_\_\_\_\_  
 Administrator  
 for Coal Mine Safety and Health

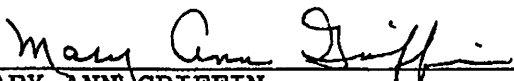
Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 15<sup>th</sup> day of May, 1989, to:

Michael R. Peelish, Esq.  
 Consolidation Coal Company  
 1800 Washington Road  
 Pittsburgh, Pennsylvania 15241

Ms. Linda Raisovich-Parsons  
 Special Assistant  
 United Mine Workers of America  
 900 Fifteenth Street, NW.  
 Washington, DC 20005

Michael H. Holland, Esq.  
 United Mine Workers of America  
 900 Fifteenth Street, NW.  
 Washington, DC 20005

  
 \_\_\_\_\_  
 MARY ANN GRIFFIN  
 Mine Safety Clerk

Cameron District, Marshall County, W. Va.

By Manufacturers Light & Heat Co.

Completed Nov. 5, 1914.

Record from Mr. Schillbalm Sept. 30, 1939.

	Top.	Bottom.
Pittsburgh Coal	790	797
Murphy Sand	895	920
Little Dunkard Sand	1185	1215
Big Dunkard Sand	1235	1290
Big Lime	1828	1925
Big Injun Sand	1925	2175
50-Foot Sand	2725	2790
Gordon Strag Sand (gas, 2772')	2770	2790
Gordon Sand	2792	2812
Total depth		2826

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MAY 21 2018

WV Department of  
Environmental Protection



Select County: (051) Marshall ▼ Select datatypes: (Check All)

Enter Permit #: 30444

Get Data    Reset

Location     Production     Plugging  
 Owner/Completion     Stratigraphy     Sample  
 Pay/Show/Water     Logs     Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

**Well: County = 051 Permit = 30444**

Report Time: Thursday, May 03, 2018 5:27:39 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705130444	Marshall	30444	Cameron	Cameron	Cameron	39.858309	-80.546834	538762	4412129.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4705130444	11/5/1914	Original Loc	Completed	A R Burley	1	1788		2125	unknown	Manufacturers Light & Heat Co.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TL_BEF	P_AFT	TL_AFT	B
4705130444	11/5/1914	-/-	1274	Ground Level	Cameron	UDev undf.Ber/LoHURN	Gordon	Development Well	unclassified	Gas	Cable Tool	unknown	2826		2826	0	0	0	0	0	0	0	0	0	0	0

Comment: 11/5/1914 Plat lists surface owner as A.D. Burley, but well records show surface owner as A.R. Burley. Some info taken from historical records in black notebook and not yet scanned. Elev. in black books is 1289'.

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4705130444	11/5/1914	Pay	Gas	Vertical			2772	Gordon Stray	0	0			

There is no Production Gas data for this well

There is no Production Oil data for this well \*\* some operators may have reported NGL under Oil

There is no Production NGL data for this well \*\* some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4705130444	Original Loc	Pittsburgh coal	Well Record	790	Reasonable	7	Reasonable	1274	Ground Level
4705130444	Original Loc	Connlsvl Ss/Minshall	Well Record	895	Reasonable	25	Reasonable	1274	Ground Level
4705130444	Original Loc	Bufflo Ss/1st Cow Rn	Well Record	1185	Reasonable	30	Reasonable	1274	Ground Level
4705130444	Original Loc	Mahonig Ss/Big Dunk	Well Record	1255	Reasonable	35	Reasonable	1274	Ground Level
4705130444	Original Loc	Big Lime	Well Record	1828	Reasonable	97	Reasonable	1274	Ground Level
4705130444	Original Loc	Big Injun (undiff)	Well Record	1925	Reasonable	250	Reasonable	1274	Ground Level
4705130444	Original Loc	Fifty-foot	Well Record	2725	Reasonable	5	Reasonable	1274	Ground Level
4705130444	Original Loc	Gordon Stray	Well Record	2770	Reasonable	20	Reasonable	1274	Ground Level
4705130444	Original Loc	Gordon	Well Record	2792	Reasonable	20	Reasonable	1274	Ground Level

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

Plugging Information:

API	PLG_DT	DEPTH_PBT
4705130444	7/12/1962	0

There is no Sample data for this well

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 WV Department of  
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51-01683P



"Pipeline"

Select County: (051) Marshall ▼    Select datatypes: (Check All)

Enter Permit #: 1683

Get Data    Reset

- Location
- Production
- Plugging
- Owner/Completion
- Stratigraphy
- Sample
- Pay/Show/Water
- Logs
- Btm Hole Loc

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- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus" New](#)

WV Geological & Economic Survey

**Well: County = 051 Permit = 1683**

Report Time: Thursday, May 03, 2018 5:22:15 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705101683	Marshall	1683	Cameron	Cameron	Cameron	39.858749	-80.547466	538707.7	4412177.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4705101683	-/-		Plugging	Permitted	McElroy Coal Company			M-1658		McElroy Coal Company			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH_P_BEF	BH_P_AF
4705101683	-/-	-/-		1271	Ground Level																						

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well    \*\* some operators may have reported NGL under Oil

There is no Production NGL data for this well    \*\* some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

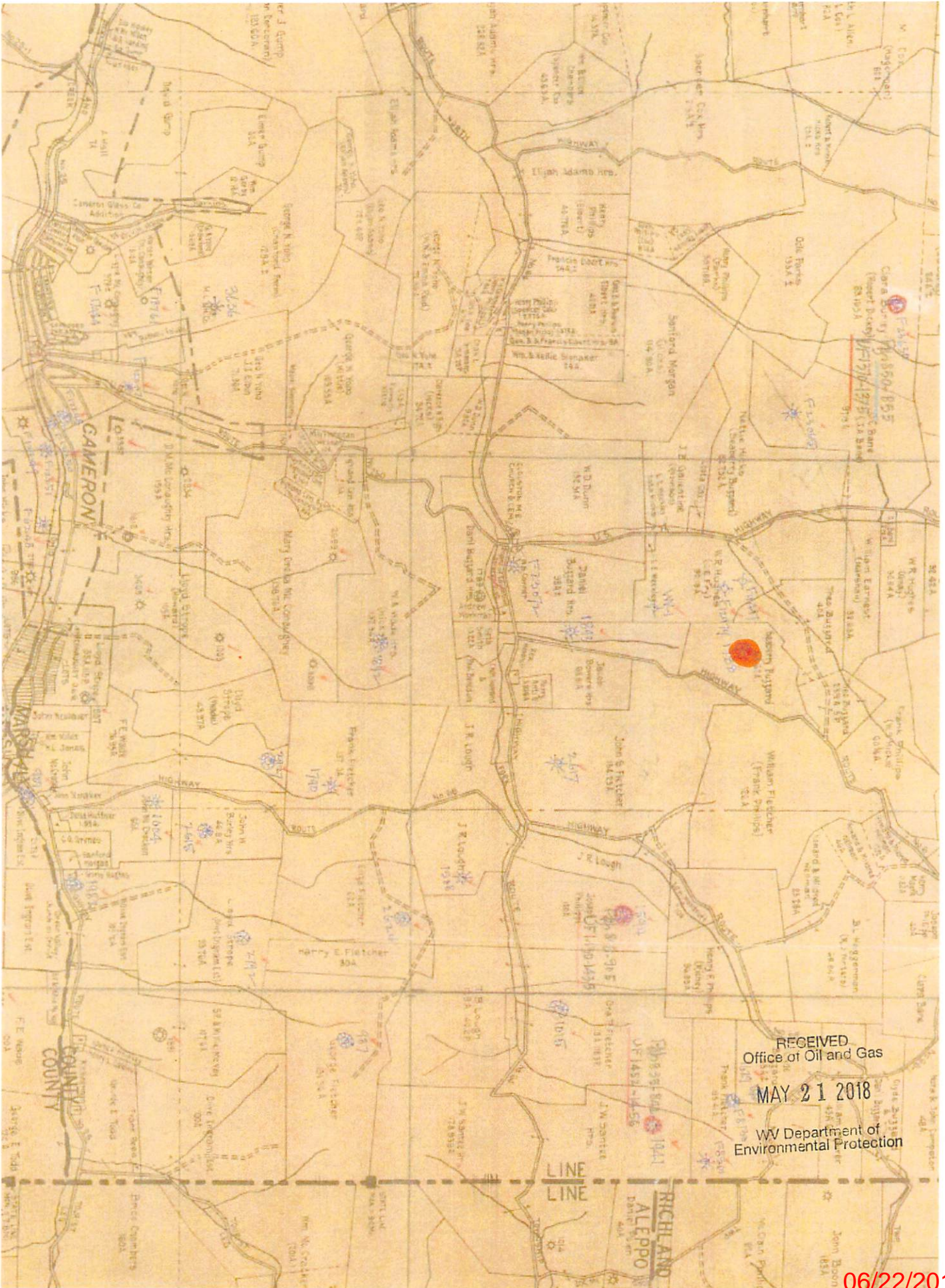
There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

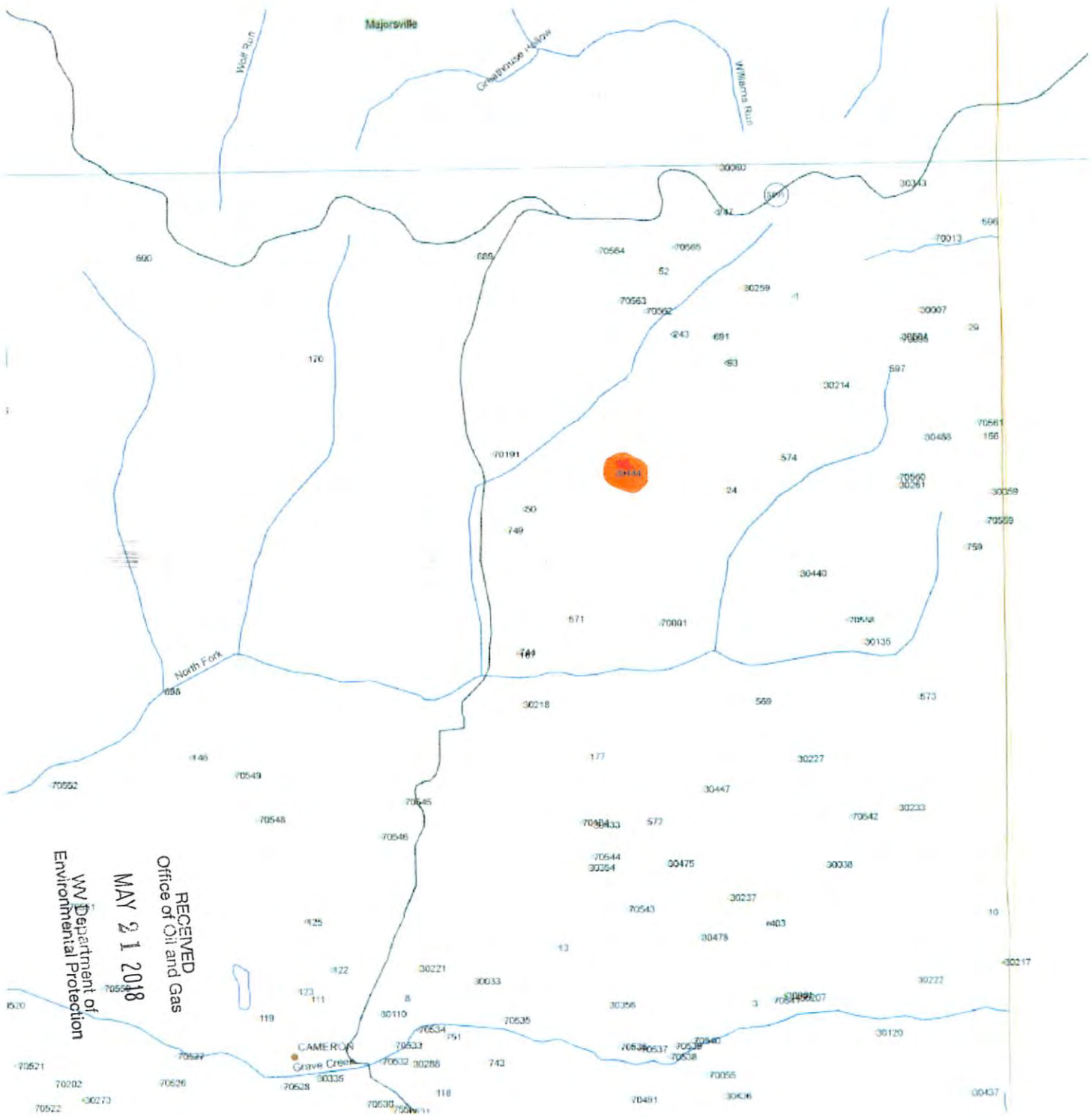
There is no Sample data for this well

51-01683F



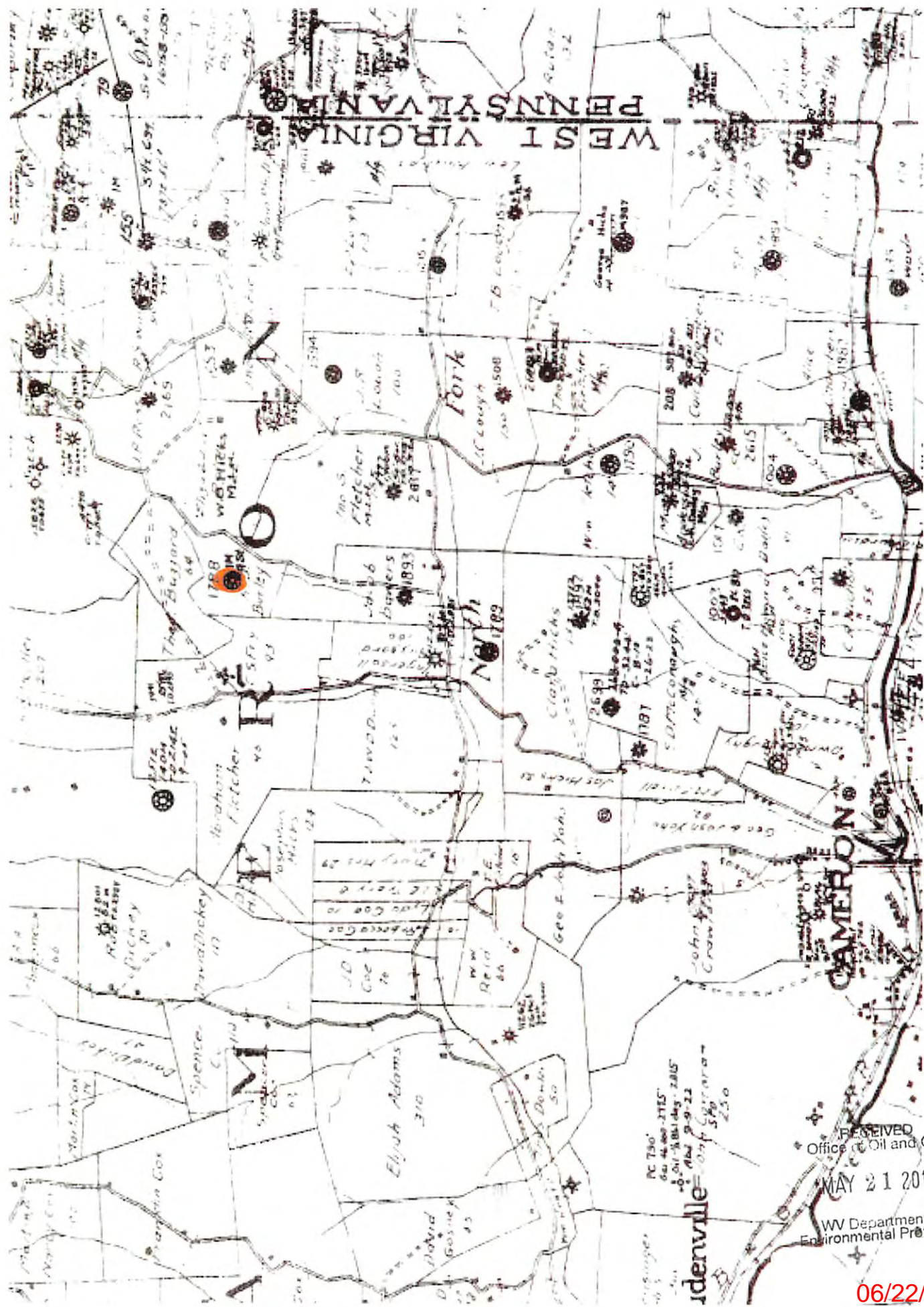


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MAY 21 2018  
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Environmental Protection



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 MAY 21 2018  
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 Environmental Protection

51-01683A



NC 730  
60.44.000-2715  
+ 0.01-181 day 285  
+ 0.01-9-9-22  
John Reid  
Crawley  
250

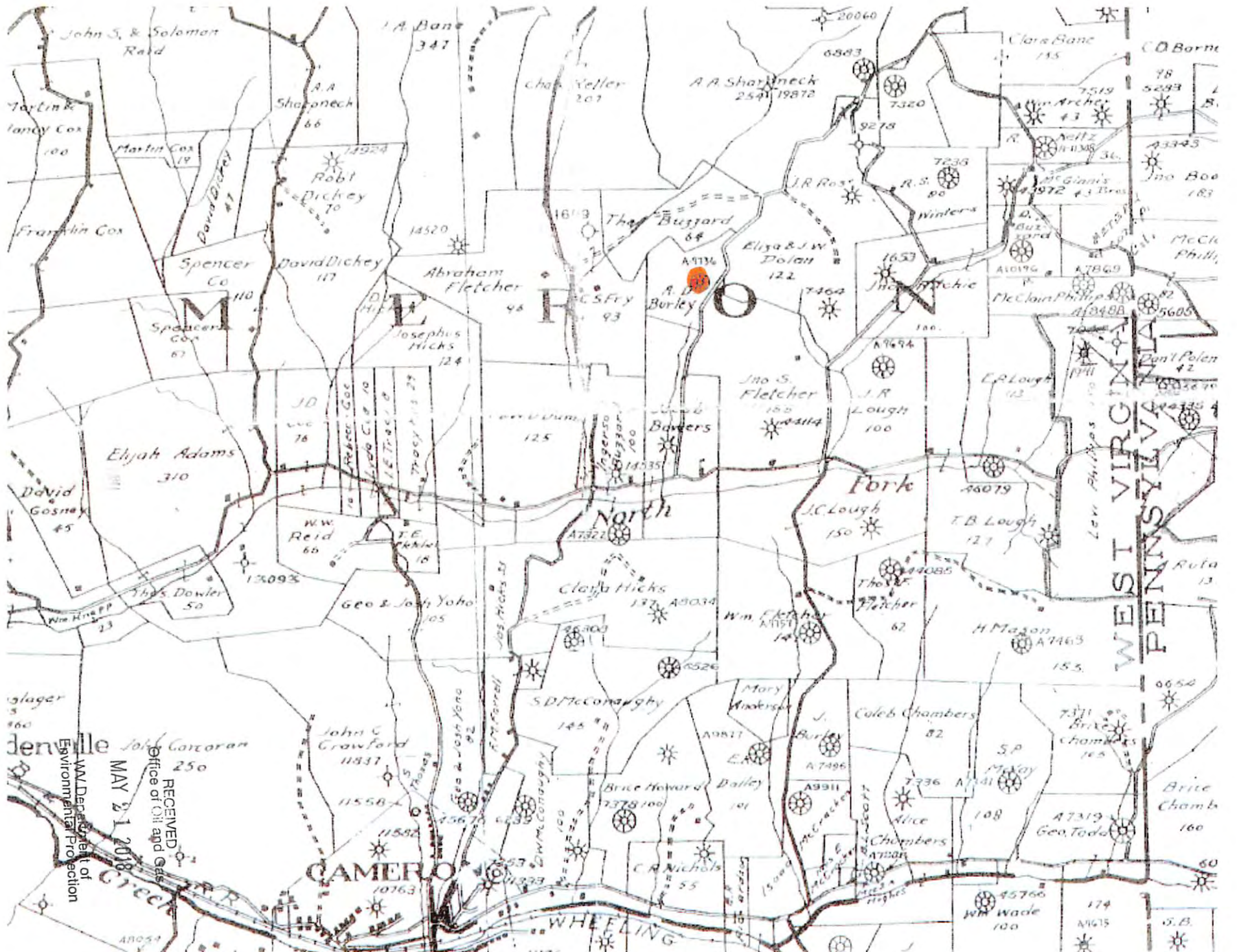
Idenville

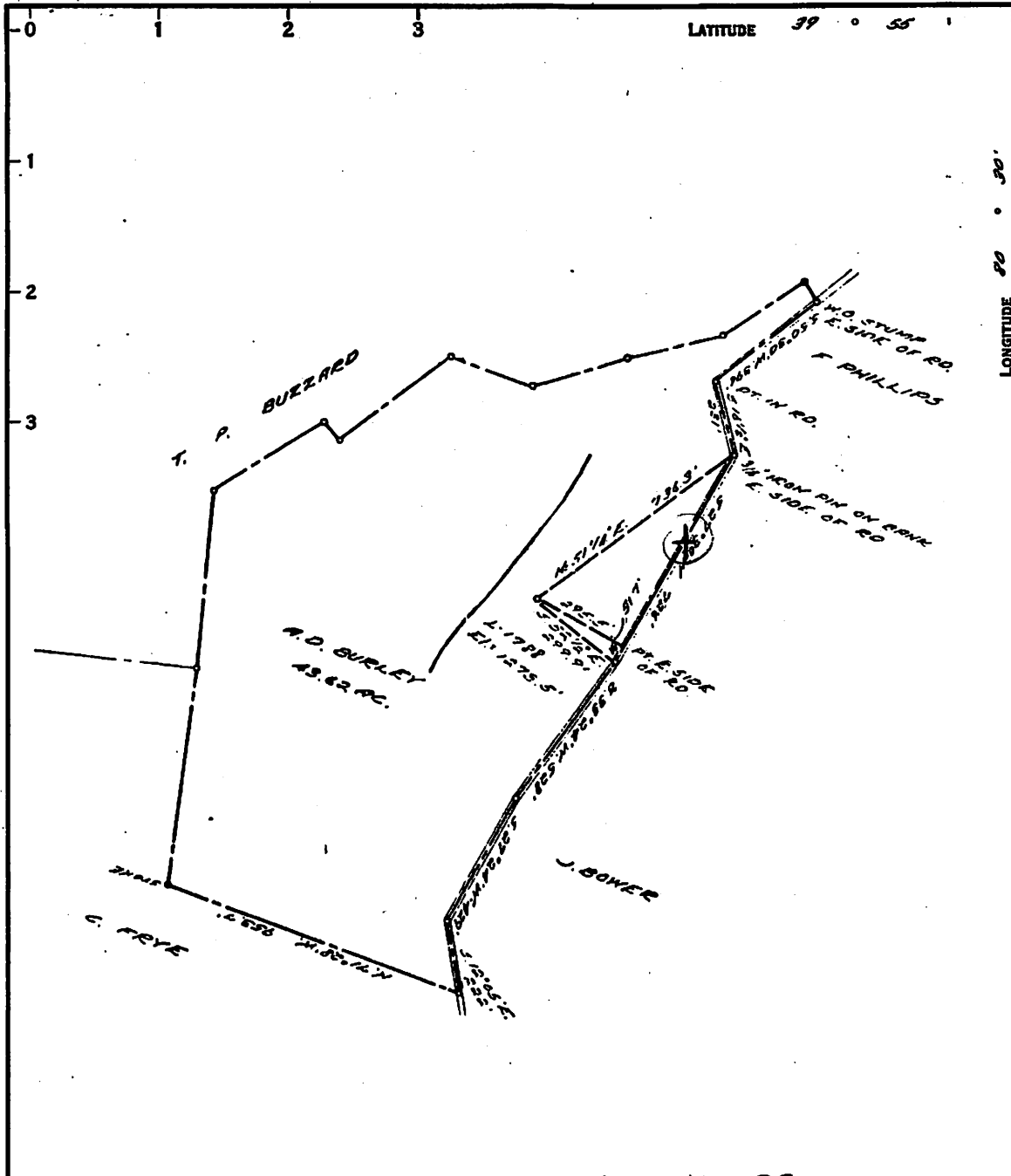
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Environmental Protection

06/22/2018





COAL OWNED BY \_\_\_\_\_

NEW LOCATION

DRILL DEEPER

ABANDONMENT

4.03S  
2.50W

0-25-2

COMPANY THE MANUFACTURERS LIGHT & HEAT

ADDRESS 800 UNION TRUST BLDG, PGM, PA.

FARM A.D. BURLEY

TRACT \_\_\_\_\_ ACRES 48 LEASE No. 2125

WELL (FARM) No. 1 SERIAL No. 1788

ELEVATION (SPIRIT LEVEL) 1273.5'

QUADRANGLE CAMERON

COUNTY MARSHALL DISTRICT CAMERON

ENGINEER Robert M. Heall

ENGINEER'S REGISTRATION No. 361-E (J.F.)

FILE No. \_\_\_\_\_ DRAWING No. V-25-513

DATE 2 APR. 62 SCALE 1"=100'

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

RECEIVED  
Office of Oil and Gas  
**WELL LOCATION MAP**  
MAY 21 2018  
FILE No. MARS-444-A

WV Department of Environmental Protection  
+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS, SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.  
- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

06/22/2018

A. R. BURLEY NO. 1788 WELL.

Cameron District, Marshall County, W. Va.  
By Manufacturers Light & Heat Co.  
Completed Nov. 5, 1914.  
Record from Mr. Schillham Sept. 30, 1939.

	Top.	Bottom.
Pittsburgh Coal	790	797
Murphy Sand	895	920
Little Dunkard Sand	1185	1215
Big Dunkard Sand	1255	1290
Big Lime	1828	1925
Big Injun Sand	1925	2175
50-Foot Sand	2725	2730
Gordon Stray Sand (gas, 2772')	2770	2790
Gordon Sand	2792	2812
Total depth		2826



Sheriff of Marshall County • P.O. Box 648 • Moundsville, WV 26041  
(304) 843-1400

**Marshall County Real Property - Tax Year: 2017**

Ticket Number: 000004113      Account Number: 00002236  
 District: 03 - CAMERON      Taxpayer I.D.:

<b>Owner Name:</b> DURBIN KEVIN R & KRISTA A <b>In Care of:</b> <b>Address:</b> 1905 BURLEY HILL RD CAMERON WV 26033 <b>Lending Inst:</b>	<b>Property:</b> 48.62 M GRAVE CREEK LESS ALL MINERALS
	<b>Map:</b> 7 <b>Parcel:</b> 0008 0000 0300 <b>Lot Size:</b> <b>Acreage:</b> <b>Book:</b> 788 <b>Page:</b> 406
<b>Tax Class:</b> 2 <b>Homestead Exemption:</b> <b>Back Tax:</b> <b>Exoneration:</b> <b>Prior Delinquents:</b> <b>Special Disposition:</b>	

**AMOUNTS DUE:**    First Half: none due    Second Half: none due    Total Due: none due

**ASSESSMENT:**

Assessment	GROSS	NET	TAX (1/2 Year)
Land	1200	1200	
Building	0	0	
<b>Total</b>	1200	1200	6.33

**PAYMENTS RECEIVED:**

	First Half	Second Half
Net	6.33	6.33
Discount	.16	.16
Interest	.00	.00
<b>Total</b>	6.17	6.17
Date	08/14/2017	02/13/2018

[Format for Printer](#)

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 MAY 21 2018  
 WV Department of  
 Environmental Protection

[Click here to begin a new search.](#)



57-01683P

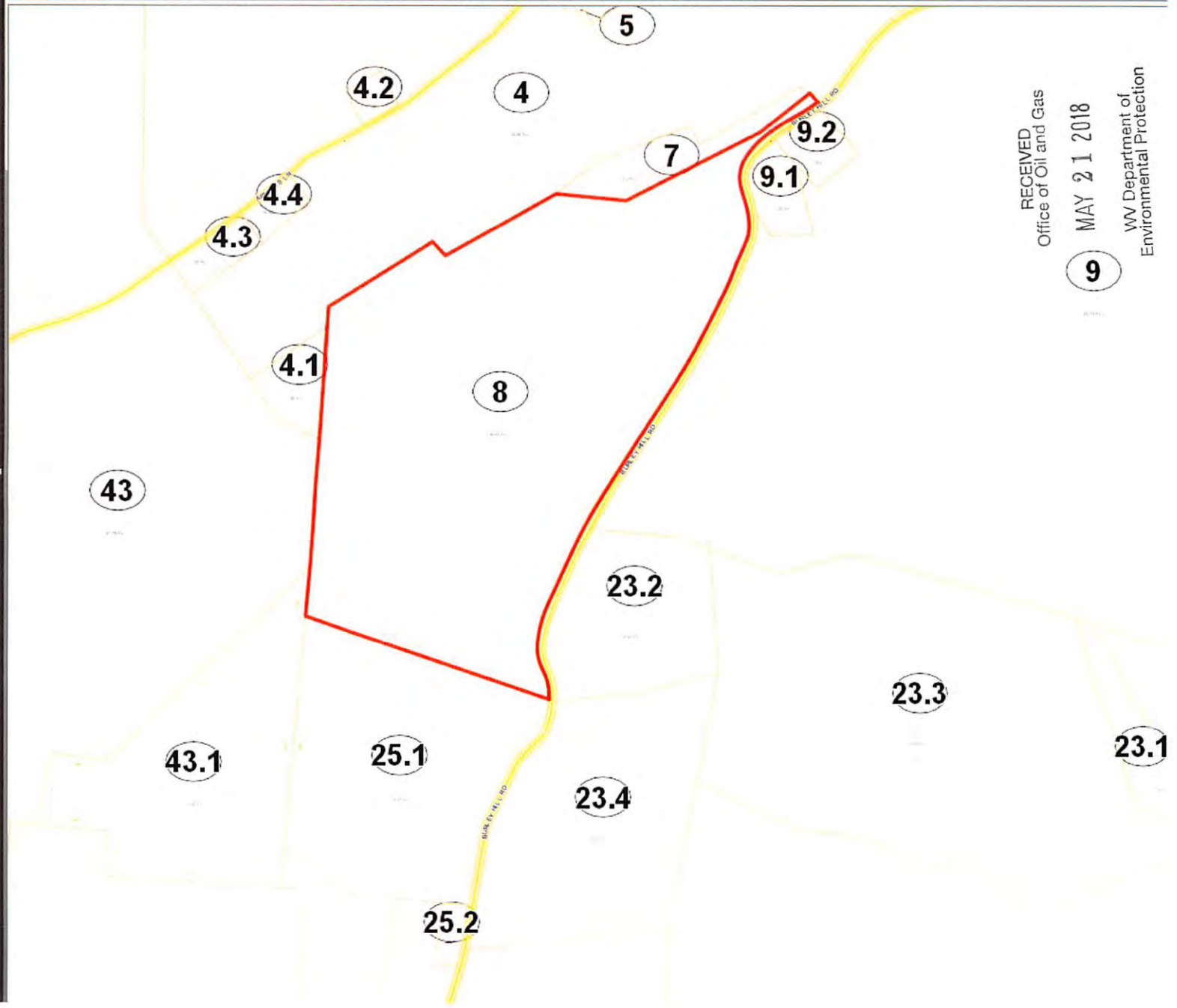
Layers Selection

Parcels 1

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map_1	7
parcel	6
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nbhd	0470
own1	DURBIN KEVIN R & KRISTA A
careof	
own2	
owneraddr	1905 BURLEY HILL RD
situsaddr	WV ROUTE 66
cityname	CAMERON
statecode	WV
legal1	46.62 M GRAVE CREEK
legal3	
legal2	LESS ALL MINERALS
book	768
page	406
aprland	2000
aprldg	0
aprtot	2000

Refresh Maptip Measure Pan Zoom Rectangle Zoom In Zoom Out Zoom Extents Previous Next About Help

Select Clear Selection Zoom Selection Select Polygon Query Print Quick Search

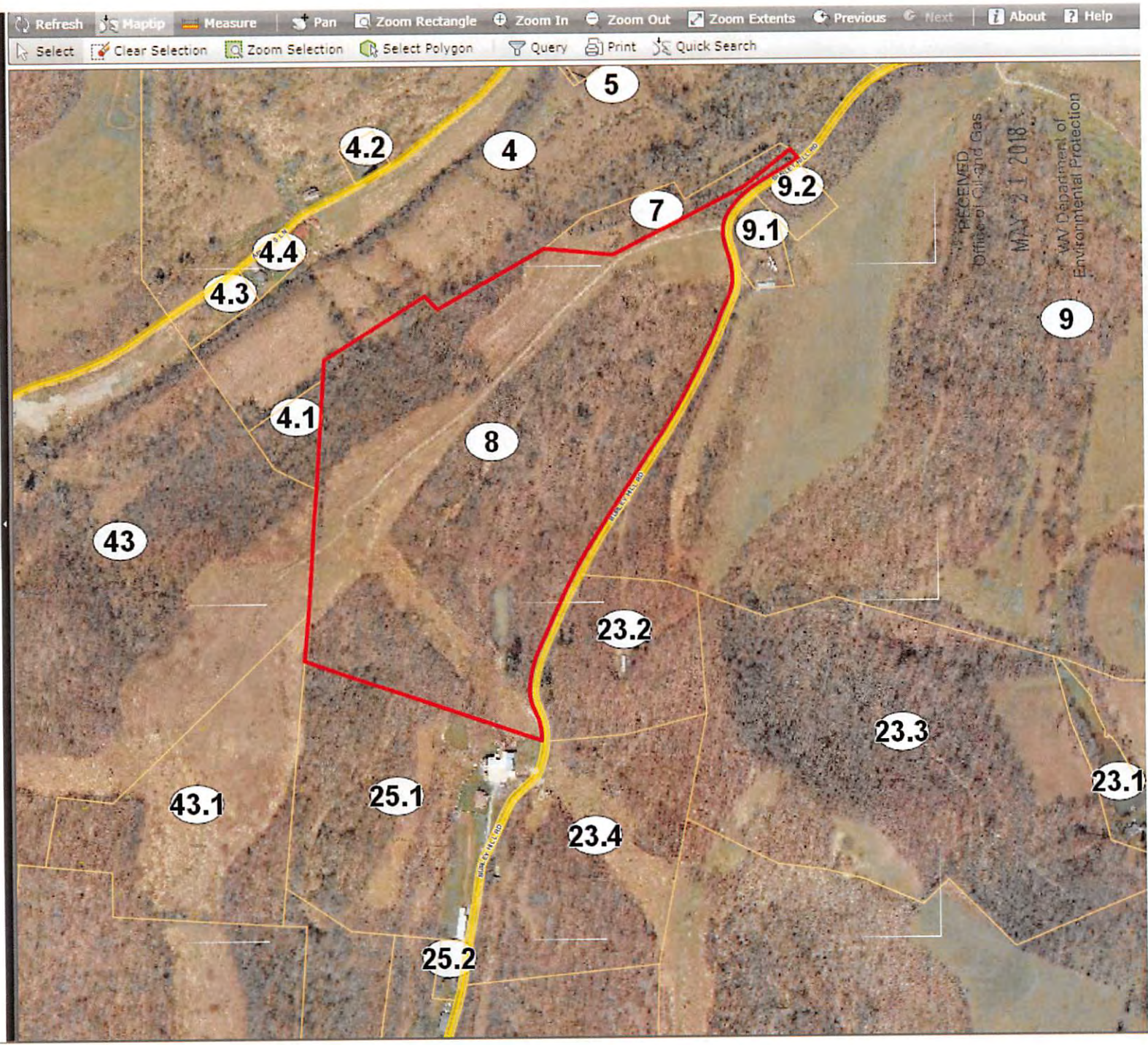


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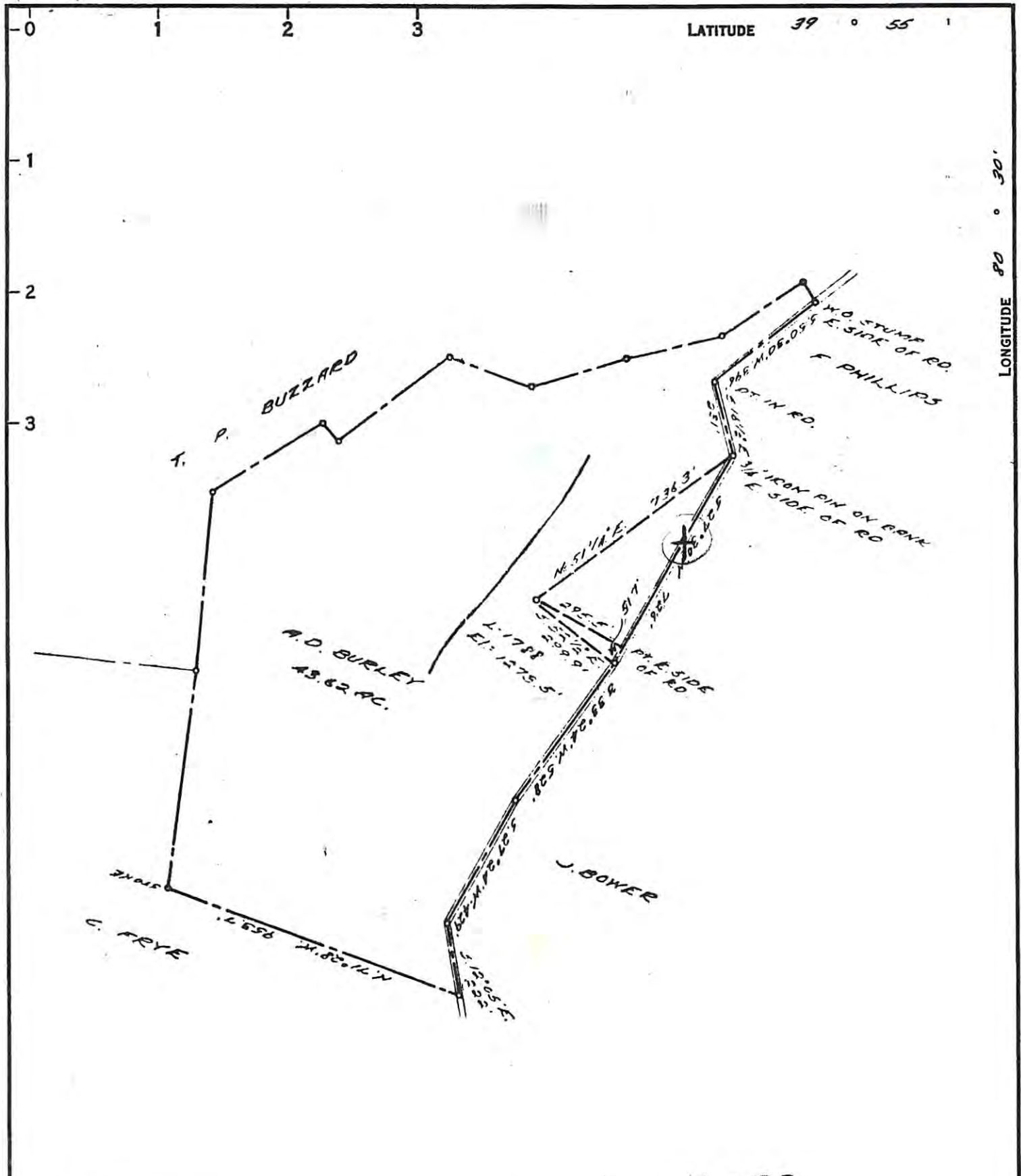


51-01683P

Attribute	Value
gid	349802
dmp	3-7-8
dist_1	03
map_1	7
parcel	8
parid_1	03 7000600000000
nbhd	0470
own1	DURBIN KEVIN R & KRISTA A
careof	
own2	
owneraddr	1905 BURLEY HILL RD
situsaddr	WV ROUTE 66
cityname	CAMERON
statecode	WV
legal1	48.62 M GRAVE CREEK
legal3	
legal2	LESS ALL MINERALS
book	788
page	406
apriand	2000
aprbldg	0
aprtot	2000



51-016839



COAL OWNED BY \_\_\_\_\_

NEW LOCATION.....

DRILL DEEPER.....

ABANDONMENT.....

4.035  
2.50 W

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Office of Oil and Gas

MAY 21 2018

0-25-2

COMPANY THE MANUFACTURERS LIGHT & HEAT

ADDRESS 800 UNION TRUST BLDG., PGH., PA.

FARM A.D. BURLEY

TRACT \_\_\_\_\_ ACRES 48 LEASE No. 2125

WELL (FARM) No. 1 SERIAL No. 1788

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QUADRANGLE CAMERON

COUNTY MARSHALL DISTRICT CAMERON

ENGINEER Robert McNeill

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FILE No. \_\_\_\_\_ DRAWING No. V-25-513

DATE 2 APR. 62 SCALE 1"=400'

WV Department of Environmental Protection

**STATE OF WEST VIRGINIA**

DEPARTMENT OF MINES

OIL AND GAS DIVISION

CHARLESTON

**WELL LOCATION MAP**

FILE No. MARS-444-A

06/22/2018

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS, SCALE 1 TO 62,500, LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

— DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

WW-4A  
Revised 6-07

1) Date: MAY 4, 2018  
2) Operator's Well Number M-1658  
3) API Well No.: 47 - 051 - 01683

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

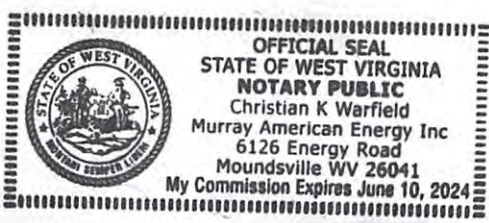
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>KEVIN R &amp; KRISTA A. DURBIN</u>	Name <u>CONSOLIDATION COAL CO</u>
Address <u>1905 BURLEY HILL RD</u>	Address <u>1 BRIDGE STREET</u>
<u>CAMERON, WV 26033</u>	<u>MONONGAH, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>JAMES NICHOLSON</u>	(c) Coal Lessee with Declaration
Address <u>P.O. BOX 44</u>	Name _____
<u>MOUNDSVILLE, WV 26041</u>	Address _____
Telephone <u>(304) 552-3874</u>	

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator CONSOLIDATION COAL COMPANY  
 By: Jay Hores  
 Its: PROJECT ENGINEER  
 Address 6126 ENERGY ROAD  
MOUNDSVILLE, WV 26041  
 Telephone (304) 843-3565

Subscribed and sworn before me this 17 day of May 2018  
Christian Warfield, Christian Warfield Notary Public  
 My Commission Expires June 10, 2024

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 the Department of Environmental Protection's privacy policy, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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MAY 21 2018

06/22/2018

WW-9  
(5/16)

API Number 47 - 051 - 01683  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Consolidation Coal Company OP Code 10950

Watershed (HUC 10) NORTH FORK OF GRAVE CREEK Quadrangle CAMERON, WV, PA 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  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 system be used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement

-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 Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that I have received significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jay Hores  
Company Official (Typed Name) Jay Hores  
Company Official Title Project Engineer



Subscribed and sworn before me this 17 day of May, 2018  
Christian Warfield Notary Public

My commission expires June 10, 2024

Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Seed Mix in accordance with WVDEP Oil and Gas, Erosion and Sediment Control Field Manual		Seed Mix in accordance with WVDEP Oil and Gas, Erosion and Sediment Control Field Manual	

Attach:  
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5 topographic sheet.

Plan Approved by: Jim Wheeler

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Oil & Gas Inspector Date: 5/22/18  
Field Reviewed?  Yes  No

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JUN 06 2018  
WV Department of  
Environmental Protection

N/A

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

Operator Name: CONSOLIDATION COAL COMPANY

Watershed (HUC 10): NORTH FORK OF GRAVE CREEK Quad: CAMERON, WV,PA 7.5'

Farm Name: \_\_\_\_\_

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

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

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WV Department of Environmental Protection 06/22/2018

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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WV Department of  
Environmental Protection

06/22/2018



SI-01683 P



51-01683P



tagis.dep.wv.gov/oog/



51-01683P

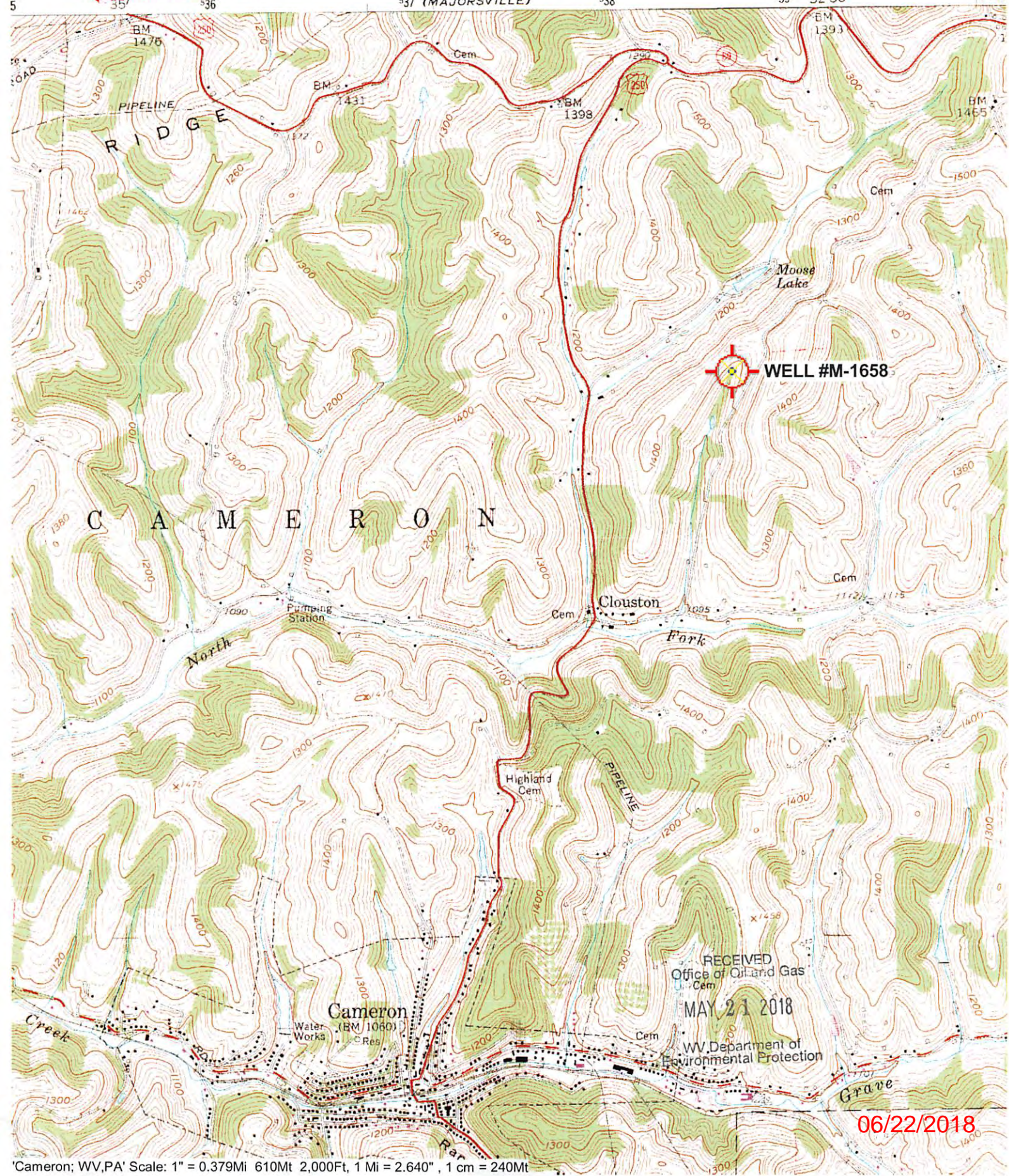
STATE OF WEST VIRGINIA  
REPRESENTED BY THE  
STATE OF WEST VIRGINIA GEOLOGICAL SURVEY  
AND OTHER STATE AGENCIES

MOUNDSVILLE 13 MI.  
PLEASANT VALLEY 3.8 MI.

4863 1 NE  
537 (MAJORVILLE)

539 32'30"

1710



**WELL #M-1658**

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MAY 21 2018  
WV Department of  
Environmental Protection

06/22/2018

'Cameron; WV,PA' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt

51-01683P

WW-7  
8-30-06



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

API: 47-051-01683 WELL NO.: M-1658

FARM NAME: A.D. BURLEY

RESPONSIBLE PARTY NAME: CONSOLIDATION COAL COMPANY

COUNTY: MARSHALL DISTRICT: CAMERON

QUADRANGLE: CAMERON WV, PA 7.5'

SURFACE OWNER: KEVIN R. & KRISTA A. DURBIN

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,412,178 m (1271.2')

UTM GPS EASTING: 538,708 m GPS ELEVATION: 387 m

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_

Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

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4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

Professional Surveyor

Title

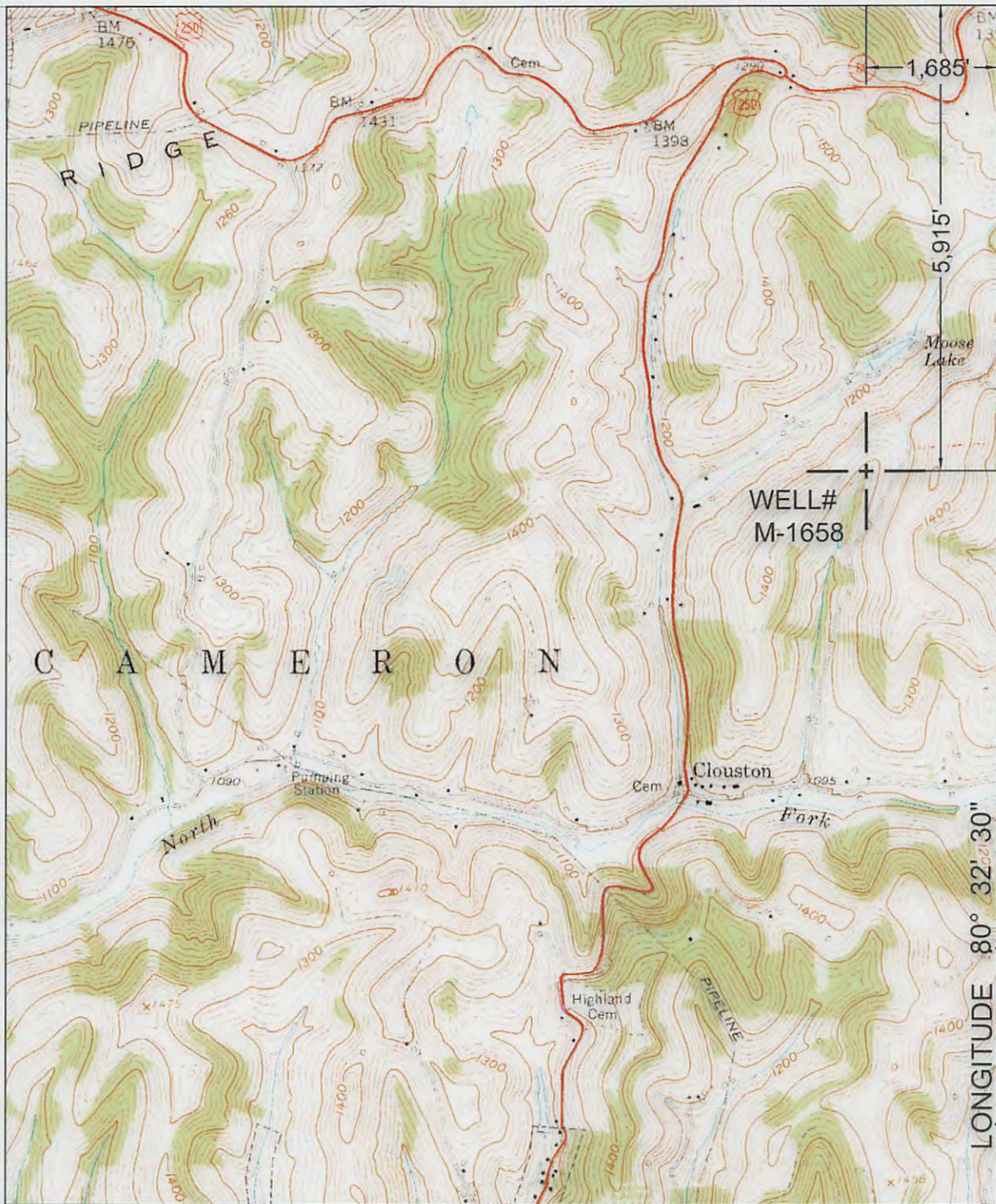
MAY 4, 2018

Date

06/22/2018

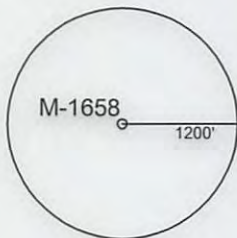
FORM WW 6

LATITUDE  
39° 52' 30"



NORTH

SURROUNDING WELLS  
WITHIN 1200' RADIUS



LONGITUDE 80° 32' 30"

UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,412,178 METERS	39° 51' 31.21" N
EASTING 538,708 METERS	80° 32' 51.60" W




I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2002

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE MAY 4, 20 18  
 OPERATORS WELL NO. M-1658  
 API WELL NO. 47 - 51 - 01683P  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500  
 FILE NO.: CAMERON 2.DWG  
 SCALE: 1"=2000'  
 PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.

WV DEP  
 OFFICE OF OIL AND GAS  
 601 57TH ST., CHARLESTON, WV 25304



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1271.18' WATERSHED: NORTH FORK OF GRAVE CREEK  
 DISTRICT: CAMERON COUNTY: MARSHALL QUADRANGLE: CAMERON, WV-PA 7.5'  
 SURFACE OWNER: KEVIN R. & KRISTA A. DURBIN ACREAGE: 48.62± ACRES  
 ROYALTY OWNER: LEASE ACREAGE: LEASE NO.: 06/22/2018  
 PROPOSED WORK: DRILL: CONVERT: DRILL DEEPER: REDRILL: FRACTURE OR STIMULATE: PLUG OFF OLD:  
 FORMATION: PERFORATE NEW FORMATION: PLUG AND ABANDON: X CLEAN OUT AND REPLUG: OTHER:  
 PHYSICAL CHANGE IN WELL (SPECIFY): TARGET FORMATION: NONE ESTIMATED DEPTH:

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: DAVID RODDY  
 ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041 ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041

COUNTY NAME PERMIT