



west virginia department of environmental protection

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

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

Tuesday, July 17, 2018

WELL WORK PLUGGING PERMIT
Not Available Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for W. R. HUGHES 1
47-051-00749-00-00

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: W. R. HUGHES 1
Farm Name: HUGHES, W. R.
U.S. WELL NUMBER: 47-051-00749-00-00
Not Available Plugging
Date Issued: 7/17/2018

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

51-00749P

WW-4B
Rev. 2/01

1) Date MARCH 11, 20 18
2) Operator's
Well No. M-1600
3) API Well No. 47-051-00749

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 1381.64 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 _____
Address _____

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

SEE EXHIBIT No. 1

⊖

MSHA 101 C

EXEMPTION

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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 7/11/18

by phone to Off m^o Laybelle

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.
- (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".

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U. S. Department of Labor

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

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MAY 18 1989

MICHAEL R. PEELISH



MSHA 101 C
EXEMPTION

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:

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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

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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-

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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.

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- (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

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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.

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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.

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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 15th 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

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051 749
Jan 21 1928

Fry-Hughes Well
Cameron Dist., Marshall County, W. Va.

Well Record

Waynesburg Coal	610	
Mapletown Coal	810	
Pittsburgh Coal	907	916 Water; one bailer
Sand Lime	1203	1255
Little Dunkard	1295	1345
Big Dunkard	1492	1525
Salt Sand	1815	1850 Gas at 1820'
Big Lime	2000	2055
Big Injun	2055	2305
Thirty Foot	2643	2740
Gantz	2740	2790
Fifty Foot	2842	2870
Nineveh thirty foot	2898	2923 Gas at 2899'
Total Depth		2930
Rock pressure		140 lbs.
Capacity		278,000 cu. ft.

Sandstone →

Material

- 10" casing: 1155 ft. pulled
- 6 5/8" " 217 "
- 2" casing 270 "
- 1- 18" x 16" Wood Conductor
- 1- 8" x 10" Casing Head
- 1- 6 5/8" x 2" Dresser Anchor Packer
- 1- 6 5/8" x 8" Spang Screw Bottom Hole Packer
- 2- 2" Gate Valves
- 1- Set 6 5/8" Moser Casing Clamps
- 1- 2" Ell, hvy.
- 3- 2" Nipples
- 1- 2" Plug
- 1- 2" x 1/2" Blind Flg. Union
- 1- 1/2" Iron Stop cock
- 1- Wood Rig.

2898
910
1988

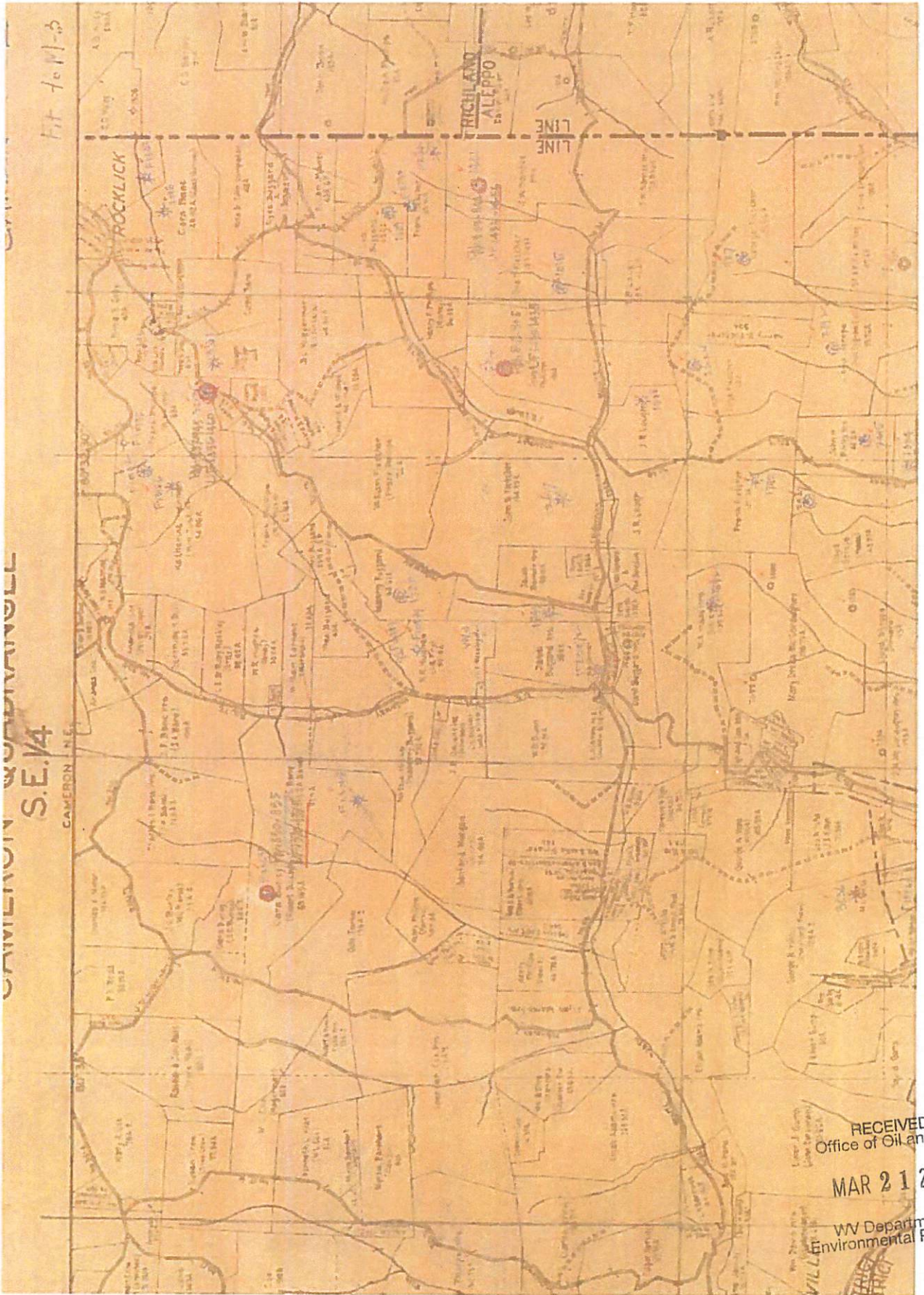
Run 3 in tubing May 11 1928
Set screw down packer at 2858
in 60 ft sand G.W. Taylor - Secy

2930
2860
70

2790
740
2050

2930
910
2020

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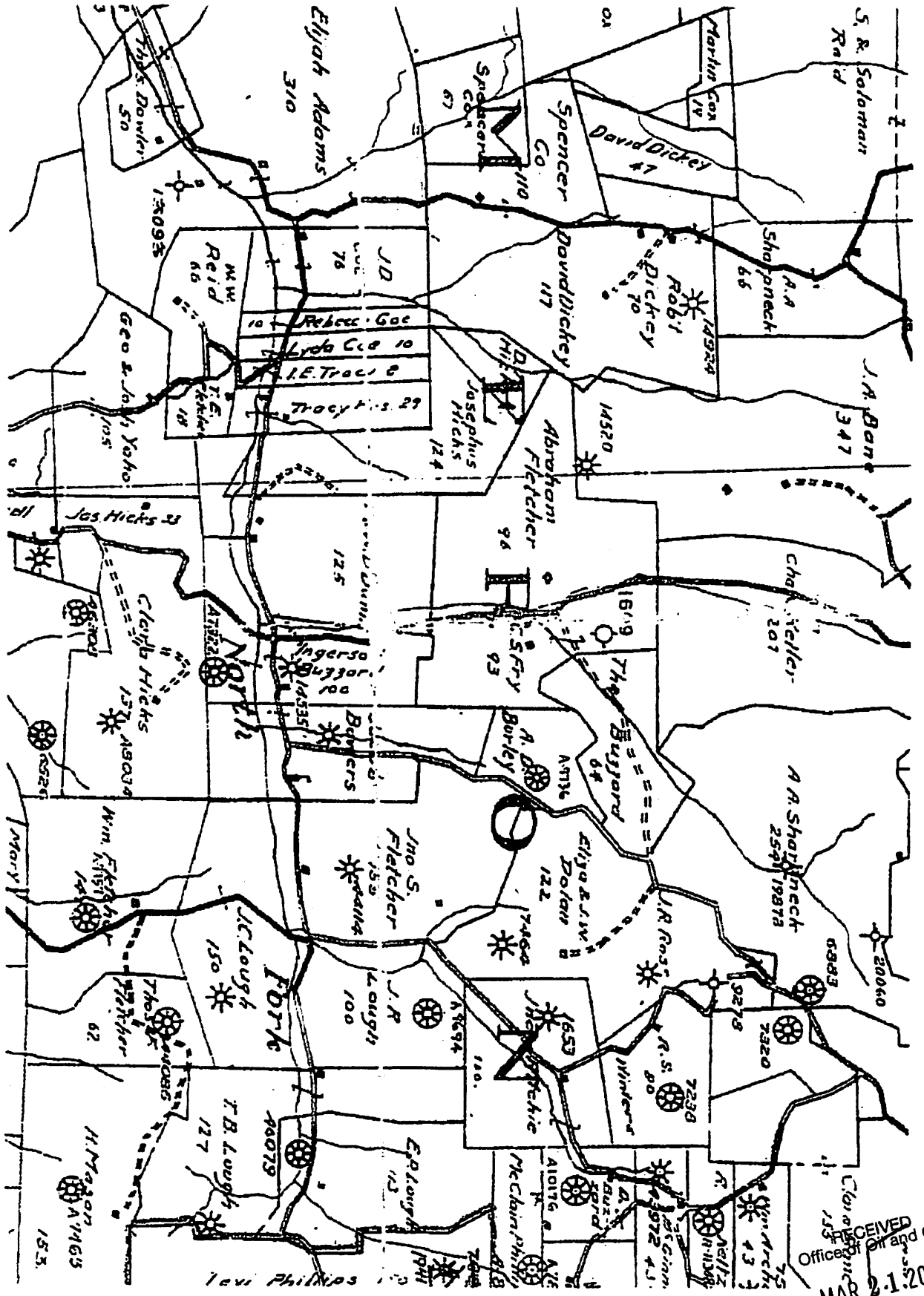
CAMERON PARISH
S.E. 1/4
CAMERON NE

Fit to M-3

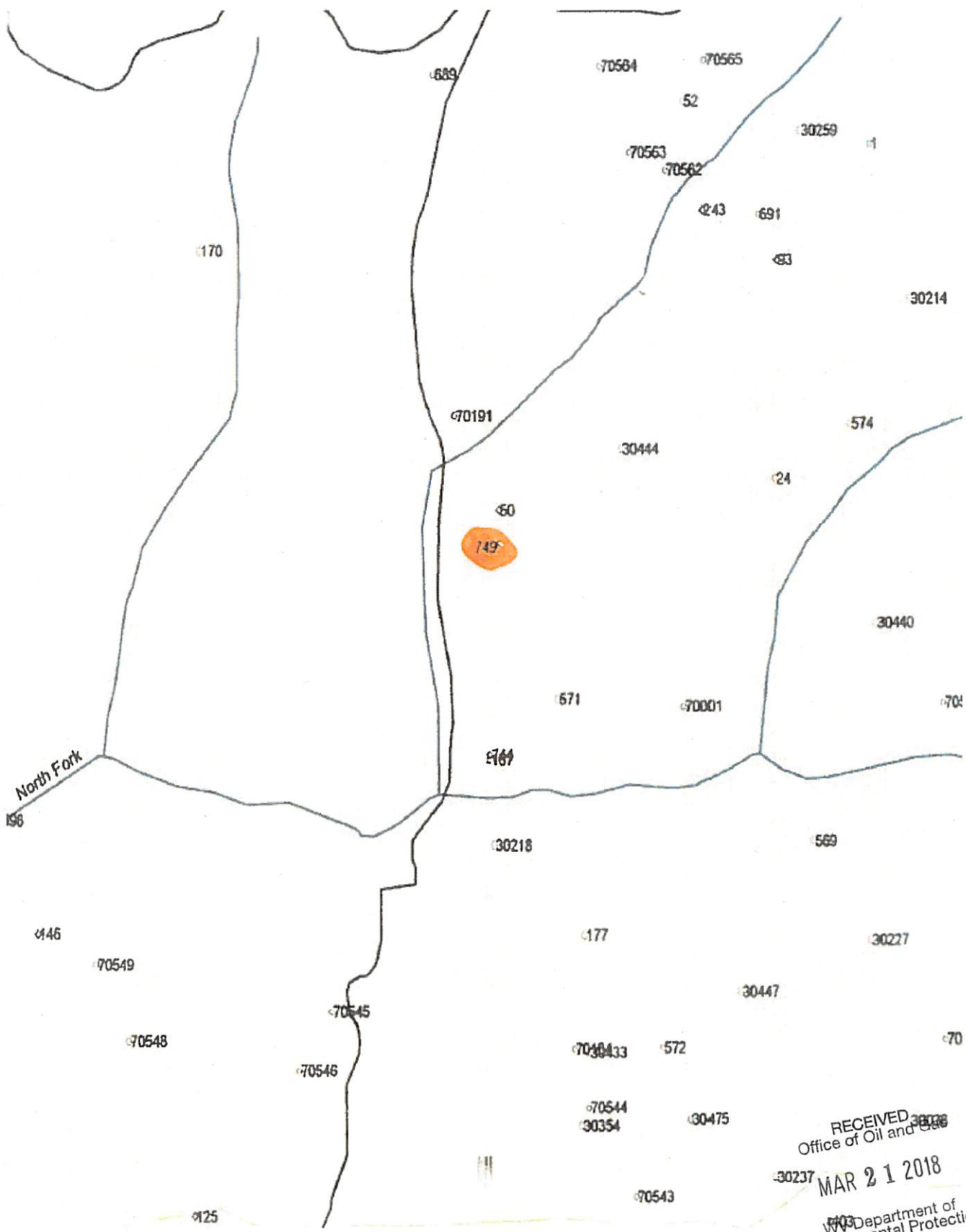
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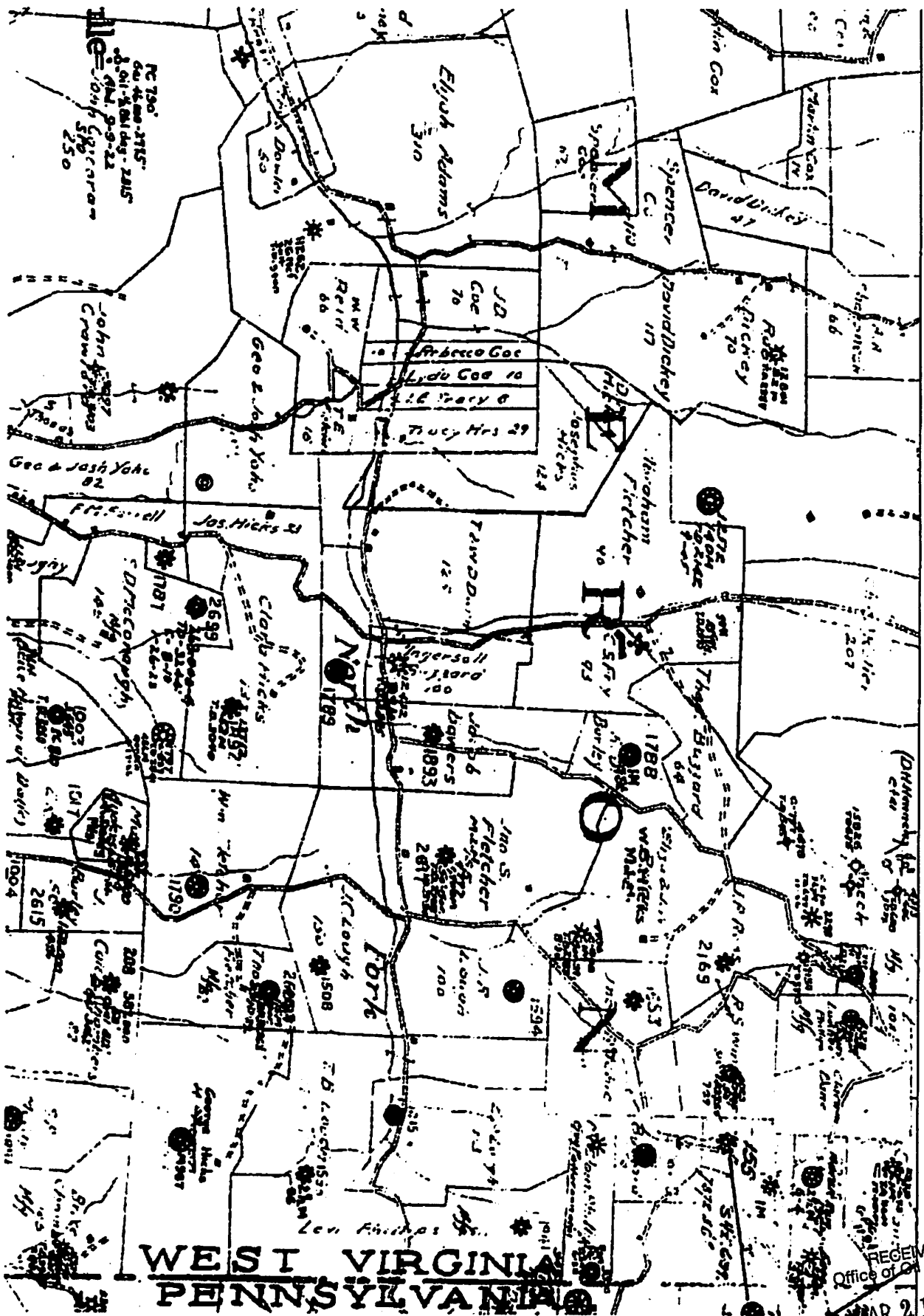
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 WYO Department of Environmental Protection



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STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

WELL REGISTER ASSIGNMENT

This API Number 47- 51-00749, issued to CAMERON GAS COMPANY is evidence of permission to operate the well that is referenced at the location described on the attached plat, subject to the provisions of Chapters 22 and 22B of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder. The name and telephone number of the Oil and Gas Inspector for this well is RANDAL MICK -
304-986-3324.

Spills or emergency discharges must be reported to 1-800-654-3312.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of your permits and in addition may result in civil and/or criminal penalties.

The enclosed WR-35 must be completed by you and returned to this office. In addition annual production reports must be submitted on this well and failure to do so may require you to plug the well.

Theodore M. Streit
Chief

By: 

Title: _____

Operator's Well No: W.R.HUGHES #1

Farm Name: EAGAN, J.M.

API Well Number : 47- 51-00749 N

Date Issued : 07/09/93

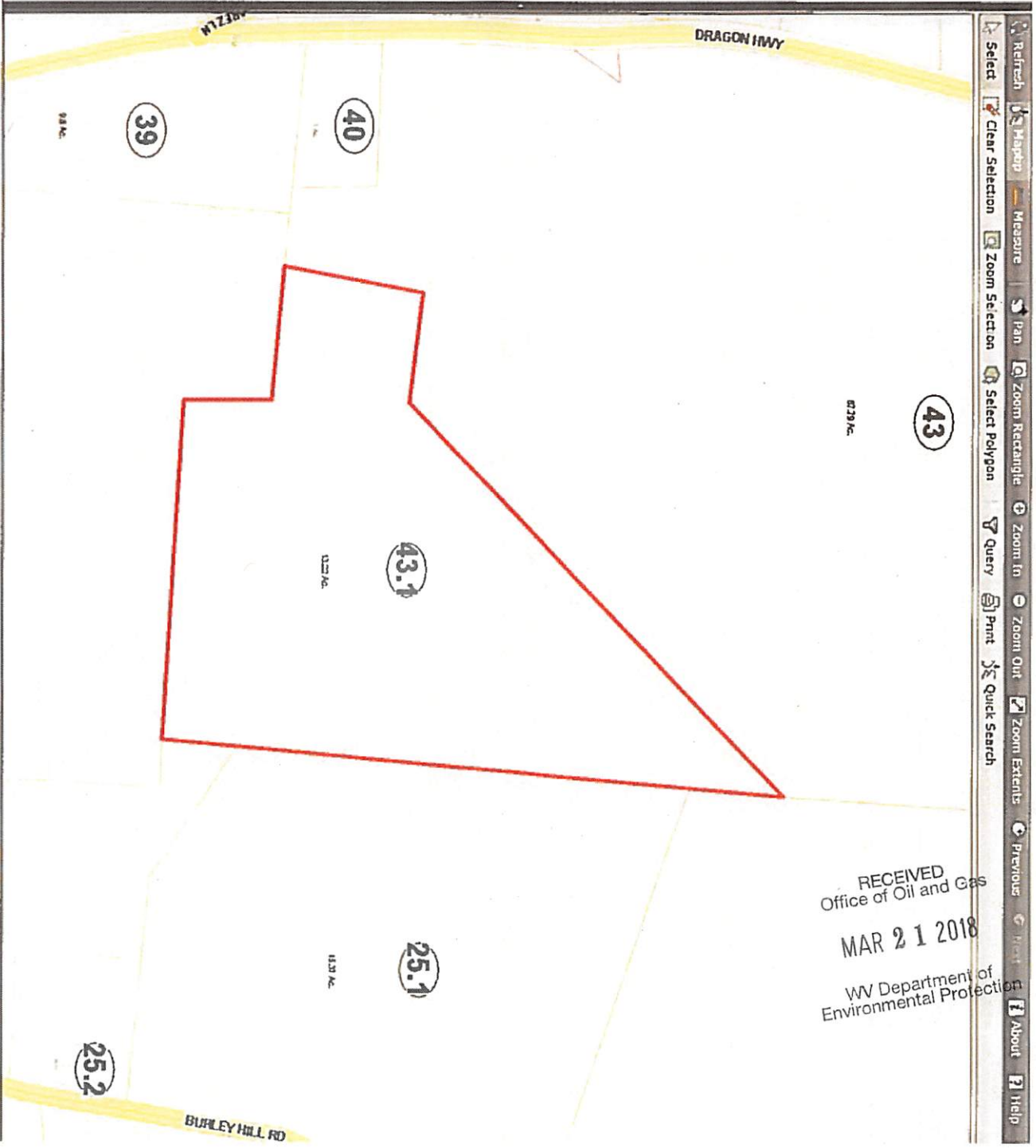
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51-007497

Attribute	Value
pid	362108
dno	3-7-43.1
dia_1	03
map_1	7
parcel	43.1
parcel_1	03 7004300010000
nbhd	P47D
bnm1	MARSHALL COUNTY BD OR ED
careof	
own2	
owneraddr	2700 4TH ST
siteaddr	RT 250
cdname	MOUNDSVILLE
szlcode	WV
legal1	13.22 AC GRAVE CREEK
legal2	
book	803
page	426
aprlnd	25600
aprbdy	0
aprdt	25600



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W. R. HUGHES NO. 1 WELL.

NO 001 051 749

.....District, Marshall County, W. Va.

By Cameron Heat & Light Co.

Elevation.....

11-9-24, test, 13/10ths in 2", 168 M.

Rock pressure, 140 lbs. Capacity, 278,000 cu. ft.

Material: 10" casing, 1155'; 6 5/8", 2177'; 1 - 18" x 16' wood conductor; 1 - 8 1/2" x 10" casing-head; 1 - 6 5/8" x 2" Dresser anchor packer; 1 - 6 5/8" x 8 1/4" Spang screw bottom-hole packer; 2 - 2" Gate valves; 1 Set 6 5/8" Moser casing clamps; 1 - 2" Flt. heavy; 3 - 2" Nipples; 1 - 2" Plug; 1 - 2" x 1/2" Blind Flg. Union; 1 - 1/2" Iron Stepcock; 1 - Wood rig.

May 11, 1938, Ran 3" tubing on screw-down packer, 2858', in 50-Ft. Sand. Well shot from 2899 to 2910 with 40 qts. "dope"; tested after cleaning out, 135,000 cu. ft. --Taylor.

Record from Mr. Straub 9-11-39.

	Top.	Bottom.
Waynesburg Coal	610	- ...
Mapletown (Sewickley) Coal	810	- ...
Pittsburgh Coal (water, 1 bailer per hour)	910	- 916
Sand-Lime	1245	- 1255
Little Dunkard Sand	1295	- 1345
Big Dunkard Sand	1492	- 1525
Salt Sand (gas at 1820')	1815	- 1850
Big Lime	2000	- 2055
Big Injun Sand	2055	- 2305
Thirty-foot Sand	2643	- 2740
Gantz Sand	2740	- 2790
Fifty-foot Sand	2842	- 2870
Nineveh 30-Ft. Sand (gas at 2899')	2898	- 2923
Total depth		2930

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N.R. Hughes #1

Nov 1924

11/9/24 Foot 13 3/4" - 16 1/2"

	Well record	
Waynesburg Coal	610	
Mapletown "	810	
Pittsburgh "	910-916	note me back p. 2
Small Lime	720-721-1350	
Little Dunkard	1295-1855	
Big "	1492-1525	
Salt Sand	7875-1850	See at 18 3/4'
Big Lime	2000-2055	
Big Limestone	2055-2805	
Thirty foot	2643-2840	
Sandy	2740-2790	
Fifty foot	2810-2890	See at 2 8 99
Nineveh thirty foot	2895-2923	
Total depth	2930	
	Rock Pressure	140 lbs
	Capacity	275,000 cu ft.

Material

- 10" casing 1152 ft. ✓
- 6 5/8" " 2172 "
- ~~2" tubing~~
- 1- 18" x 16" Hood Conductor
- 1- 8 1/4" x 10" Casing Head
- 1- 6 5/8" x 2" Dresser anchor Packer
- 1- 6 5/8" x 8 1/4" Spring screw Bottom Hole Packer
- 2- 2" Gate Valves
- 1- Set 6 5/8" Morse casing clamps
- 1- 2" Ell. hvy.
- 3- 2" nipples
- 1- 2" Plug
- 1- 2" x 1/2" Blind Fly Union
- 1- 1/2" Iron Stop Cock
- 1- Hood Rig.

1928
 May 11 Rem 3" tubing on screw down packer 2858 ft
 in 50 ft sand.
 Well shut from 2890 to 2910 - 40 ft "dope"
 Tested after cleaning out 135,000

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✓ 34 52 30 3500 W

INSTRUCTIONS

1) Attach a photo copy of the location of the well on a 7.5 minute Quadrangle with the corresponding Longitude and Latitude.
2) Designate the location of the well with the symbol(+).

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Environmental Protection
JUL 0 9 93
Permitting
Office of Oil & Gas

17589

SEE ATTACHFO

+ 1.375
0.70

7,200.5

80° 32' 30"

425 S
240 W

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief.

SIGNED [Signature]
TITLE [Signature]

W.R.
HUGHES WELL
DRILLED 1924

DATE JULY 2, 1993
OPERATORS WELL NO. _____
API WELL NO. 051-749-N

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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

MAR 21 2018

LOCATION: ELEVATION 1385' B. WATER SHED _____
DISTRICT CAMERON COUNTY MARSHALL
QUADRANGLE CAMERON EC 278

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SURFACE OWNER J.M. EAGAN ACREAGE _____
OIL & GAS ROYALTY OWNER ELANOR SAMPLE LEASE ACREAGE 100
LEASE NO. _____ JUL 16 1993

PRODUCING FORMATION GORDON 230° TOTAL DEPTH 2930'
WELL OPERATOR CAMERON GAS CO. DESIGNATED AGENT C.R. COLEMAN
ADDRESS 8 ADALINE AVE ADDRESS Sand
CAMERON W.V. 26033
L.L. (122)



Select County: (051) Marshall

Enter Permit #: 749

Get Data:

Select datatypes: (Check All)

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Bun Hole Loc

- Total Dependencies
- County Code Dependencies
 - License Dependencies
 - Lease Dependencies
 - Operator Dependencies
 - Well Dependencies
 - WVGES Main
 - Production-Phase

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Report Time: Saturday, March 10, 2018 8:07:05 AM

Well Reassignment Information: Reassigned From
OLD_COUNTY_OLD_PERMIT_NEW_COUNTY_NEW_PERMIT
51 70094 748

Location Information: View Map
API COUNTY PERMIT TAX DISTRICT QUAD 75 QUAD 15 LAT DD LONG DD UTMX UTMN
4705100749 Marshall 749 Cameron Cameron 30.855213 -80.551805 538096.5 4411762.4

There is no Bottom Hole Location data for this well

Owner Information:
API CMP DT SUFFX STATUS SURFACE_OWNER WELL_NAME CO_NAME LEASE LEASE_OWNER MINERAL_OWNER OPERATOR AT_COMPLETION PROP_VD PROD_TRGT FM_TML_EST_PR
4705100749 J-11924 Completed W R Hughes
4705100749 J-11924 Worked Over Permitted J M Eagan W R Hughes
4705100749 J-11924 Permitted J M Eagan Elinor Sample Cameron Heat & Light Cameron Gas Company

Completion Information:

API CMP DT SUFFX FIELD DEEPEST_FM DEEPEST_FRT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TYD TMD NEW_FTG G_BEF G_AFT O_BEF O_AFT NOL_BEF NOL_AFT P_BEF T1_BEF P_AFT T1_AFT GH_P_BE
4705100749 J-11924 J-1 1365 Balmoreler Majorville Hampshire Gap Gordon Development Well Development Well Gas Cable Tool Nat/Open H 2930 2930 278 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4705100749 J-11924 J-1 1365 Balmoreler Majorville Hampshire Gap Gordon Development Well Development Well Gas unknown unknown 2930

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	AMN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCAL
4705100749	Cameron Gas Company	1988	2,027	455	294	364	232	190	64	12	10	35	253	350	368
4705100749	Cameron Gas Company	1989	1,920	395	282	300	275	143	2	183	10	6	15	21	316
4705100749	Cameron Gas Company	1990	1,845	332	217	454	327	25	91	59	0	0	0	0	280
4705100749	Cameron Gas Company	1991	762	116	359	82	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1992	1,149	145	408	50	165	71	31	19	5	2	15	27	210
4705100749	Cameron Oil and Gas Co.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	1999	252	0	0	0	0	0	0	0	0	0	0	0	14
4705100749	Mountaineer Gas Services, Inc.	2000	157	14	14	10	12	15	12	15	12	15	14	12	12
4705100749	Mountaineer Gas Services, Inc.	2001	151	15	11	10	12	14	11	14	14	14	14	14	8
4705100749	Mountaineer Gas Services, Inc.	2002	155	10	12	14	13	10	10	17	12	14	14	14	15
4705100749	Mountaineer Gas Services, Inc.	2003	113	15	12	14	15	14	10	12	5	6	3	7	10
4705100749	Mountaineer Gas Services, Inc.	2004	140	0	24	30	17	8	14	8	7	12	14	14	14
4705100749	Mountaineer Gas Services, Inc.	2005	147	14	15	7	10	10	12	14	12	14	15	12	12
4705100749	Mountaineer Gas Services, Inc.	2006	147	12	15	10	10	12	13	12	14	14	14	10	14
4705100749	Mountaineer Gas Services, Inc.	2007	152	12	12	15	10	18	12	15	9	12	18	17	12
4705100749	Mountaineer Gas Services, Inc.	2008	150	12	12	15	10	18	12	15	9	12	18	17	12
4705100749	Mountaineer Gas Services, Inc.	2009	90	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Leathewood, LLC	2010	223	18	17	19	17	15	24	12	27	20	24	15	14
4705100749	Leathewood, Inc.	2011	220	24	19	19	17	17	19	11	17	22	17	20	18
4705100749	Leathewood, Inc.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Leathewood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Leathewood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Leathewood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Leathewood, Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0

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

API	PRODUCING_OPERATOR	PRD_YEAR	AMN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCAL
4705100749	Cameron Gas Company	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Oil and Gas Co.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Cameron Gas Company	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Coleman, C R	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100749	Mountaineer Gas Services, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0

R. HUGHES No. 1 Well

051749

Cameron DISTRICT, MARSHALL COUNTY, W. VA.

By Cameron Heat & Light Co. Total depth 2930 Elevation 1385' B.

Completed Abandoned Production 278 M. gas, 140#RP

Sand.	Top.	Bottom.	Thick-ness.	Eleva-tion.	Intervals from		Ft. in Sand.	Pays	Thick-ness.
					Pgh. C.	B. I. Sand			
Pittsburgh Coal	910	916	6	475	0	1145			water, 1 blr./hr.
Murphy									
Moundsville	1245	1255	10	140	335	810			
1 C. R., Lit. Dunk.	1295	1345	50	90	385	760			
Big Dunkard	1492	1525	33	-107	582	563			
Burning Springs									
Gas									
Lower Gas									
Second Cow Run									
1st Salt	1815	1850	35	430	905	240			5'; gas, 1820'
2nd Salt									
3rd Salt									
Maxton									
Big Lime	2000	2055	55	615	1090	55			
Keener									
Big Injun	2055	2305	250	670	1145	0			
Berea	2643	2740	97	1260	1733	588			
Gantz	2740	2790	50	1355	1830	685			
50-Foot									
30-Foot	2842	2870	28	1457	1932	787			
Gordon Stray									
Gordon	2898	2923	25	1513	1988	843			1'; gas, 2899'
Fourth									
Fifth									
Sixth									
Speechley									

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W. R. HUGHES #1.

051 749

	Feet	
Waynesburg Coal	810-	
Mapletown Coal	810	
Pittsburgh Coal	910-918	water 1 bailer per hour
Sand line	1845-1858	
Little Dunkard	1895-1945	
Big Dunkard	1492-1535	
Salt Sand	1815-1850	gas at 1820
Big Line	2000-2055	
Big Injun	2055-2305	
Thirty Foot	2645-2740	
Gants	2740-2790	
Fifty Foot	2842-2990	
Nineveh Thirty Foot	2995-2995	gas at 2899
Total depth	2980	

10 inch casing 1155 feet
 6-5/8 inch casing 2177 feet
 8 inch tubing 2930 feet

May 11, 1928 well was cleaned out run 8 inch tubing on screw down packer
 2850 feet in Fifty foot sand well shot from 2899 to 2910 40 qts

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WW-4A
Revised 6-07

1) Date: MARCH 11, 2018
2) Operator's Well Number M-1600

3) API Well No.: 47 - 051 - 00749

**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>MARSHALL COUNTY BOARD OF EDUCATION</u>	Name <u>CONSOLIDATION COAL CO.</u>
Address <u>2700 4TH STREET</u>	Address <u>1 BRIDGE STREET</u>
<u>MOUNDSVILLE, WV 26041</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.

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MAR 21 2018

Well Operator CONSOLIDATION COAL COMPANY
 By: MASON SMITH *Mason Smith*
 Its: PROJECT ENGINEER
 Address 6126 ENERGY ROAD
MOUNDSVILLE, WV 26041
 Telephone (304) 843-3565

WV Department of
Environmental Protection

Subscribed and sworn before me this 16th day of March 2018

My Commission Expires June 5th, 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 our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-9
(5/16)

API Number 47 - 051 - 00749
Operator's Well No. M-1600

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 there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Mason Smith*

Company Official (Typed Name) ~~David Baker~~ Mason Smith

Company Official Title Project Engineer

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WV Department of
Environmental Protection

Subscribed and sworn before me this 16th day of March, 2018

Joseph E. Williams
My commission expires June 5th, 2024

Notary Public



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Joseph E. Williams
1512 Fifth Street
Moundsville, WV 26041
My Commission Expires June 5, 2024

Form WW-9

Operator's Well No. M-1600

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: _____

Comments: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

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

N/A

Page _____ of _____
API Number 47 - 051 - 00749
Operator's Well No. M-1600

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.

[Empty response box for question 1]

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

[Empty response box for question 2]

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

[Empty response box for question 3]

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

[Empty response box for question 4]

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

WW-9- GPP
Rev. 5/16

N/A

Page _____ of _____
API Number 47 - 051 - 00749
Operator's Well No. M-1600 _____

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.

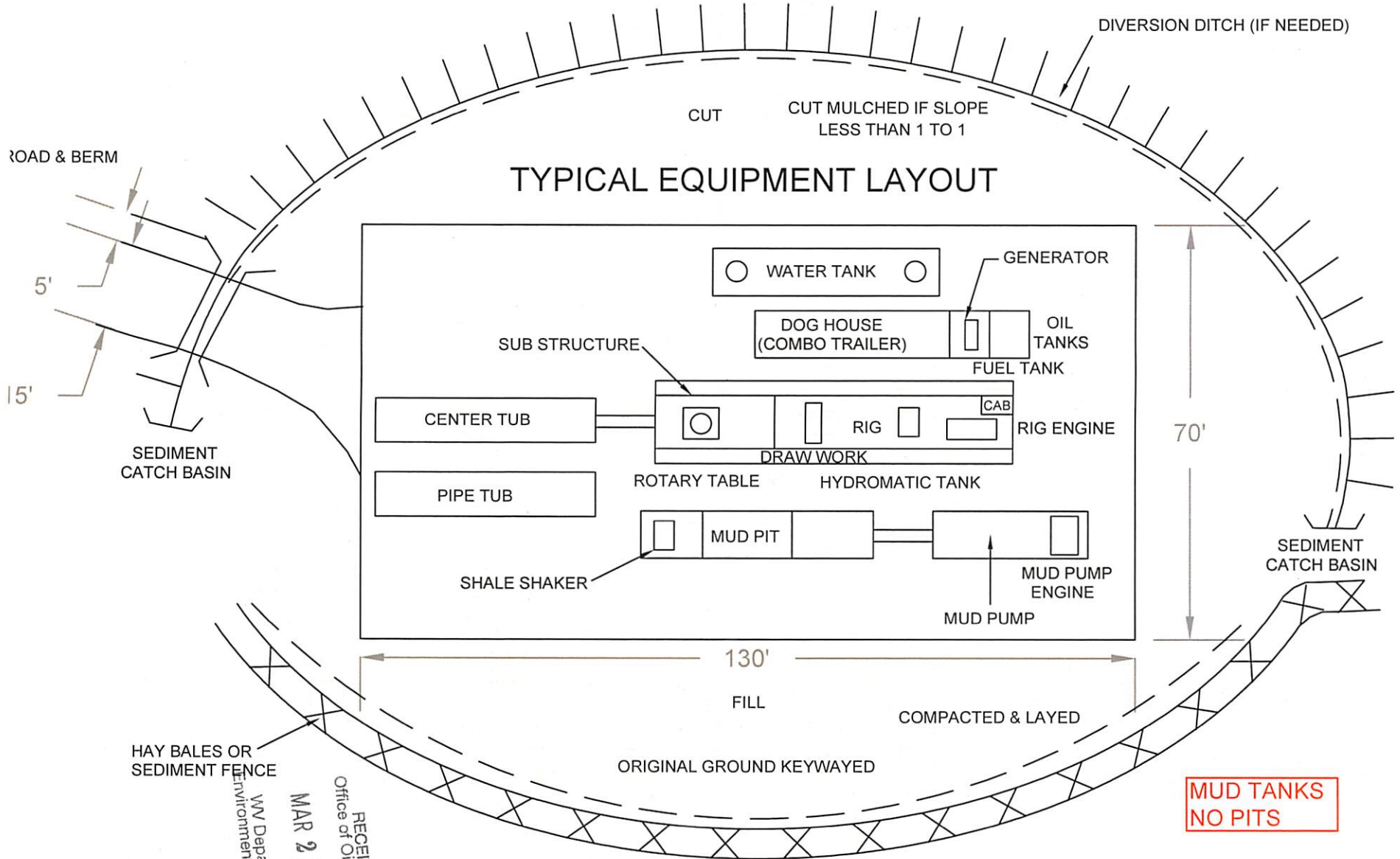
Signature: _____

Date: _____

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CONSOLIDATION COAL COMPANY
NORTHERN WEST VIRGINIA
OPERATIONS

TYPICAL DRAWING OF WELL PLUGGING SITE PLAN



SI-00749P

SI-00749f

WVGES - Oil and Gas Wells of West Virginia

Refresh Map Auto Refresh

LAYERS

- All Layers
 - Gas and Oil Data
 - Gas and Oil Wells
 - OG Misc Layers
 - Well Type Groupings
 - Combination Wells
 - Gas Wells
 - Oil Wells
 - Base Layers

Refresh Map Auto Refresh

Help:

- A closed group, click to open.
- An open group, click to close.
- A map layer.
- A hidden group/layer, click to make visible.
- A visible group/layer, click to hide.
- A visible layer, but not at this scale.
- A partially visible group, click to make visible.
- An inactive layer, click to make active.
- The active layer.
- The layer is hyperlinked to further information.

Gas and Oil Well Legend:

- * Gas Well
- Oil Well
- ✦ Combination (Oil and Gas) Well
- † Dry Well
- ▲ Service Well
- Other Well (Including Permits)

WVGES Home Page Other WVGES IMS Maps Interactive Map Help Map F.A.Q.s
 "Pipeline" "Pipeline-Plus" Disclaimer
 Remember to allow popups and javascript for this site.

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 WV Department of Environmental Protection

SI-00749P

Layers	Selection
Parcels	
Attribute	Value
gid	362108
dmp	3-7-43.1
ciat_1	03
map_1	7
parcel	43.1
parid_1	03 7004300010000
nbhd	0470
own1	MARSHALL COUNTY BD OR ED
careof	
own2	
ownersaddr	2700 4TH ST
situsaddr	RT 250
cityname	MOUNDSVILLE
statecode	WV
legal1	13.22 AC GRAVE CREEK
legal3	
legal2	
book	803
page	426
aprland	25600
apribldg	0
apriot	25600



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SI-00749P



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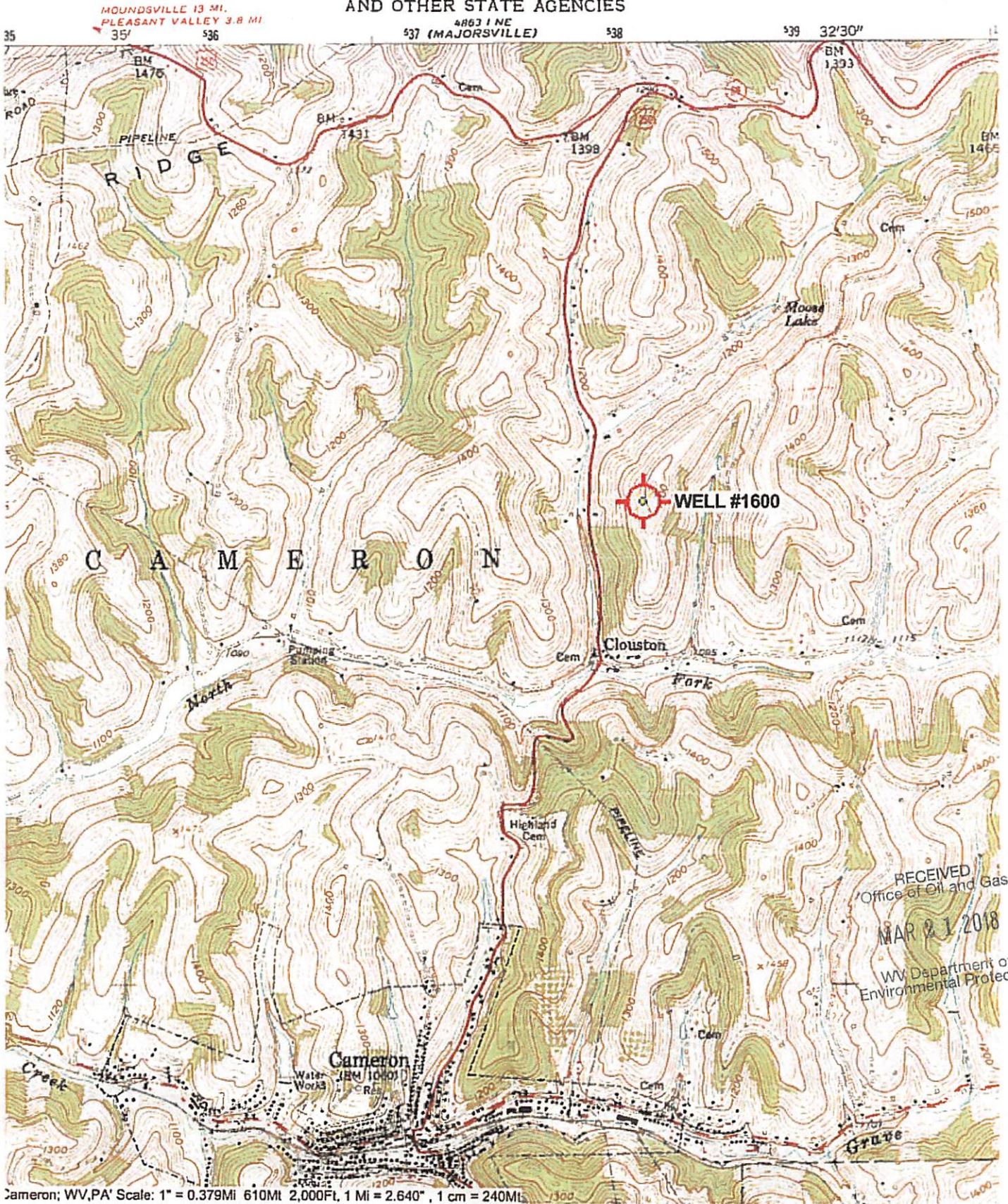
WV Department of
Environmental Protection

Google earth

Tour Guide

Imagery Date: 10/5/2014 39°31'52.22" N 80°33'01.00" W elev: 1384 ft. © 2014

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



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-00749 WELL NO.: M-1600

FARM NAME: W.R. HUGHES

RESPONSIBLE PARTY NAME: CONSOLIDATION COAL COMPANY

COUNTY: MARSHALL DISTRICT: CAMERON

QUADRANGLE: CAMERON WV, PA 7.5'

SURFACE OWNER: MARSHALL COUNTY BOARD OF EDUCATION

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,411,733 m (1381.6)

UTM GPS EASTING: 538,229 m GPS ELEVATION: 421 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 _____

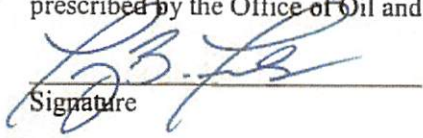
Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____

Real-Time Differential _____

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

MARCH 11, 2018

Date

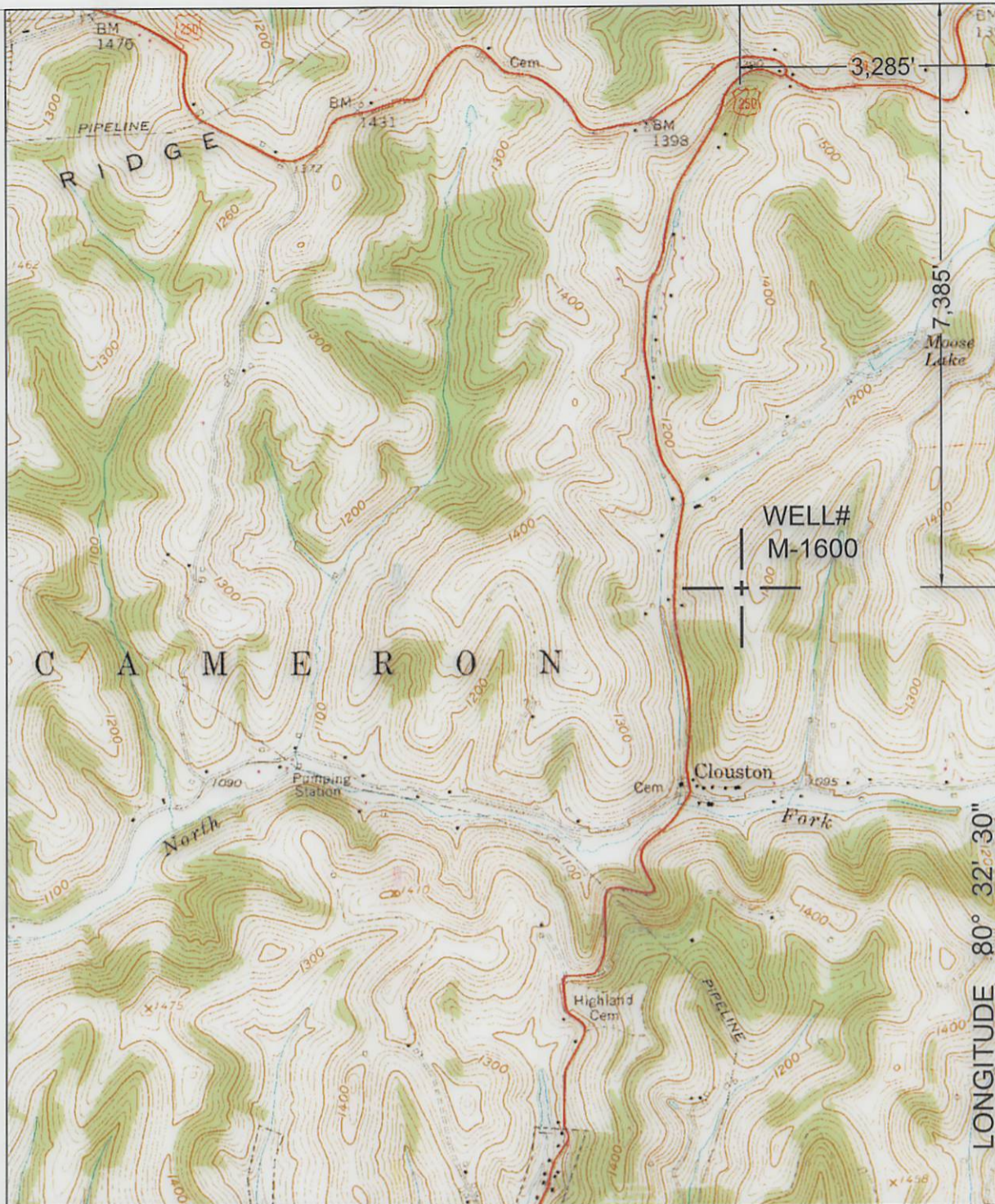
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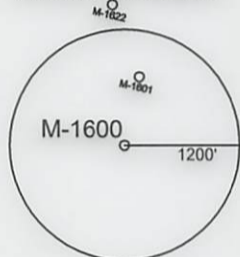
FORM WW 6

LATITUDE
39° 52' 30"



NORTH

SURROUNDING WELLS
WITHIN 1200' RADIUS



LONGITUDE 80° 32' 30"

UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,411,733 METERS	39° 51' 16.88" N
EASTING 538,229 METERS	80° 33' 11.85" 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 MARCH 11, 20 18

OPERATORS WELL NO. M-1600

API WELL NO. 47 - 51 - 00749 P
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: 1381.64' WATERSHED: NORTH FORK OF GRAVE CREEK

DISTRICT: CAMERON COUNTY: MARSHALL QUADRANGLE: CAMERON, WV-PA 7.5'

SURFACE OWNER: MARSHALL COUNTY BOARD OF EDUCATION ACREAGE: 13.22± ACRES

ROYALTY OWNER: _____ LEASE ACREAGE: _____

PROPOSED WORK: _____ LEASE NO.: _____

DRILL: _____ CONVERT: _____ DRILL DEEPER: _____ REDRILL: _____ FRACTURE OR STIMULATE: _____ PLUG OFF OLD: _____

FORMATION: _____ PERFORATE NEW FORMATION: _____ PLUG AND ABANDON: 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