



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

Wednesday, September 4, 2019
WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET
MONONGAH, WV 26554

Re: Permit approval for MC47A
47-051-01136-00-00

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: MC47A
Farm Name: DAVID L. & CHRISTINA M. 
U.S. WELL NUMBER: 47-051-01136-00-00
Coal Bed Methane Well Plugging
Date Issued: 9/4/2019

Promoting a healthy environment.

I

47-051-01136 P

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.

WW-4B
Rev. 2/01

1) Date December 18, 2018
2) Operator's
Well No. MC-47A
3) API Well No. 47-051 - 01136

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 X

5) Location: Elevation 1387.05 Watershed Middle Grave Creek - Grave Creek
District Cameron County Marshall Quadrangle Cameron, WV 7.5'

6) Well Operator Consolidation Coal Company 7) Designated Agent Dave Roddy
Address 1 Bridge Street Address 1 Bridge Street
Monongah, WV 26554 Monongah, WV 26554

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name James Nicholson Name _____
Address PO BOX 44 Address _____
Moundsville, WV 26041

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

See Exhibit No. 1

OK GMM

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

Work order approved by inspector _____ Date _____

Exhibit Number 1

Consolidation Coal Company in WV will utilize the following methods to plug CBM wells.

CBM wells are a directionally drilled well with horizontal wellbores through the Pittsburgh coal seam. The wellbores through the coal will be water infused for first intersection of the laterals. Then the lateral system will be cemented/grouted. The vertical wellbore will be cleaned out to the total depth or attainable bottom (PBSD). The well sump, 7" casing, and packer will be pulled if possible. This proposed method of plugging the wellbore will apply to that portion of the wellbore from the top of the coal seam to be mined to the surface. All Casings will be removed and at no time will more than a single string be left in the wellbore.

All casing will be removed so that only a single string will be left in the wellbore, if it cannot be removed. Intact and uncemented casings as determined by electronic logging shall be perforated, ripped, or milled at no greater than 100' intervals to the top of the casing. A borehole survey will be conducted to determine the top and bottom of the coal seam to be mined. In addition, starting at a point 5' below through 5' above the coal to be mined, any metal casing shall be ripped, cut or perforated on no greater than a 5' interval. Before or after mine through this well will be plugged with cement to the surface from a point at or above the Pittsburgh Coal with a solid plug.

★ THIS WELL IS THE ACCESS WELL THAT THE HORIZONTALS WERE DRILLED FROM. THIS WELL HAS A CEMENTED WATER PROTECTION STRING OF 7" CASING. THE CASING IS SET @ 532.6' WHICH IS 45' ABOVE THE PITTSBURGH COAL. THEREFORE, THIS WELL BORE SHALL BE FILLED W/ A CLASS A CEMENT PLUG FROM 100' ABOVE THE PITTSBURGH COAL TO SURFACE. A MONUMENT SHALL BE SET PER WV CODE. SEE SURVEY REPORTS ATTACHED TO API 47-051-01136.

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

AS

Well Operator's Report of Well Work

Farm name: KEVIN STROPE Operator Well No.: MC-47A

LOCATION: Elevation: 1387.05' Quadrangle: CAMERON, WV-PA 7.5'

District: CAMERON County: MARSHALL
Latitude: 4,367' Feet South of 39 Deg. 51 Min. 47.34 Sec.
Longitude: 3,244' Feet West of 80 Deg. 33 Min. 10.86 Sec.

Company: CNX Gas Company, LLC

| | Casing & Tubing | Used in drilling | Left in well | Cement Fill Up (# of Sacks) |
|---------------------------------------|-----------------|------------------|--------------|-----------------------------|
| Address: 2481 John Nash BLVD | 9 5/8" | 42' | 42' | SANED IN |
| Bluefield Wv 24701 | 7" | 532.6' | 532.6' | 95 SKS |
| Agent: Les Arrington | | | | |
| Inspector: Bill Hatfield | | | | |
| Date Permit Issued: 5/02/2008 | | | | |
| Date Well Work Commenced: 6/10/2008 | | | | |
| Date Well Work Completed: 6/13/2008 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary Cable <u>Rig</u> | | | | |
| Total Depth (feet): 948' | | | | |
| Fresh Water Depth (ft.): 300' | | | | |
| Salt Water Depth (ft.): N/A | | | | |
| Is coal being mined in area (N/Y)? No | | | | |
| Coal Depths (ft.): 175'-177', 948' | | | | |

RECEIVED
Office of Oil & Gas
NOV 16 2009

WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation Pittsburgh COAL SEAM depth (ft) 948'-954'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

Gas Well DOE MC-47A (API No. 47-5101136) is a horizontal well for CNX Gas Company, LLC. Refer to the attached information for additional information.

Signed: Geoff Fanning 11/9/09
By: Geoff Fanning Drilling Manager
Date: _____

FEB 06 2009

MAR 5 11 36 C

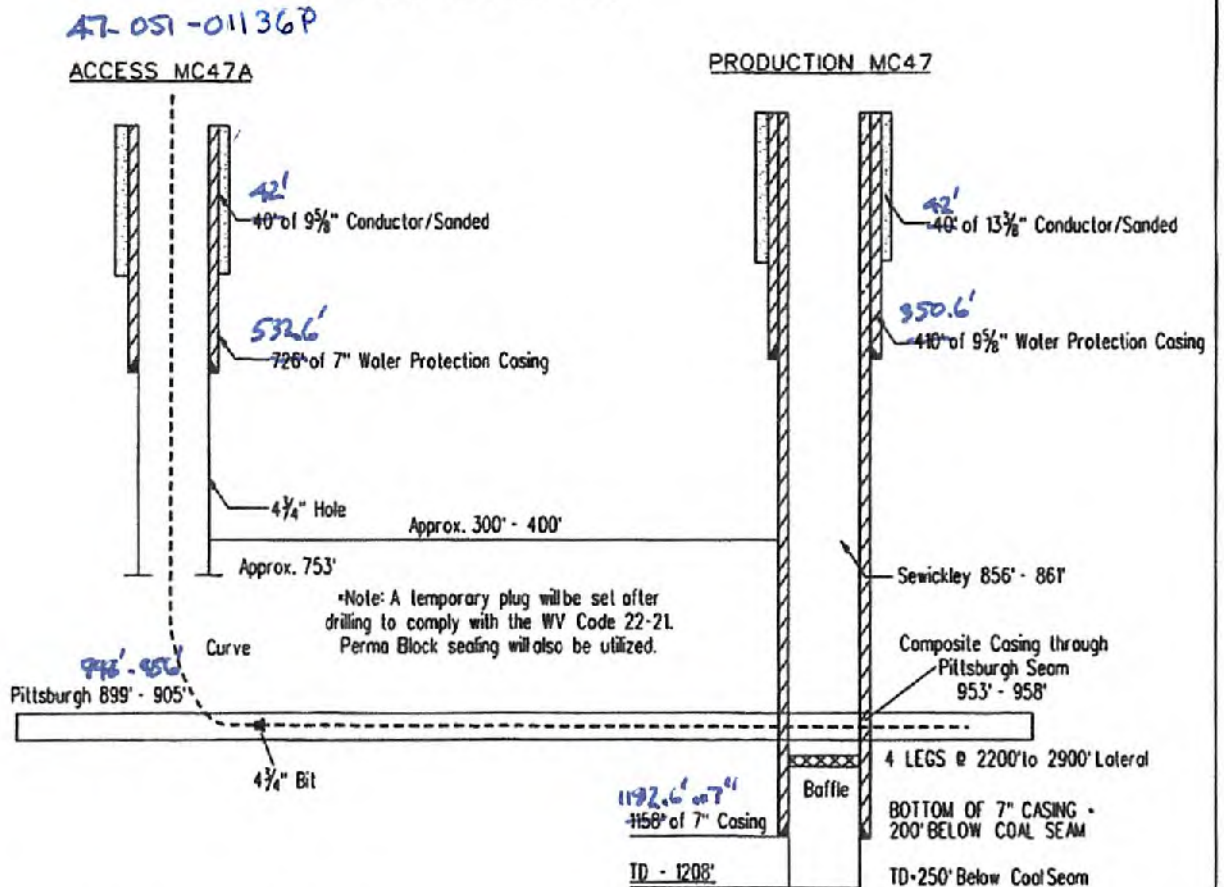
| Depth | Description |
|----------------|-------------|
| 5-10' | FILL&DIRT |
| 10-20' | CLAY |
| 20-25' | SAND |
| 25-35' | SHALE |
| 35-150' | SAND |
| 150'-175'-177' | COAL |
| 175'-177'-195' | R.R |
| 195'-310' | SHALE |
| 310'-405' | SAND |
| 405'-515' | SHALE |
| 515'-535' | SAND |
| 535'-550' | SHALE |
| | |
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| | |

Marshall County CBM Well No. MC-47A PG Drill Log
 API #47-5101136

ATTACHMENT A

47-051-0136f

FIGURE 1
CNX GAS COMPANY LLC



*NOTE: Additional casing string may be used depending on hole conditions

NOT TO SCALE

WW-4A
Revised 6-07

1) Date: 12/18/18
2) Operator's Well Number
MC-47A
3) API Well No.: 47 - 051 - 01136

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

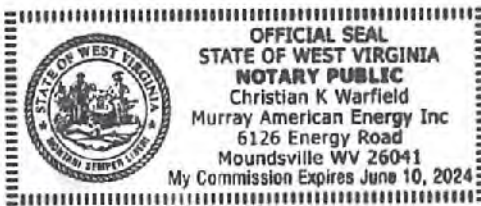
| | |
|--|------------------------------------|
| 4) Surface Owner(s) to be served: | 5) (a) Coal Operator |
| (a) Name <u>David & Christina Hanson</u> | Name <u>Consolidation Coal Co.</u> |
| Address <u>790 Dragon HWY</u> | Address <u>1 Bridge Street</u> |
| <u>Cameron, WV 26033</u> | <u>Monongah, WV 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>PO 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 | <u>Consolidation Coal Company</u> |
| By: | <u>Jay Hores</u> |
| Its: | <u>Project Engineer</u> |
| Address | <u>6126 Energy Road</u> |
| | <u>Moundsville, WV 26041</u> |
| Telephone | <u>(304) 843-3565</u> |

Subscribed and sworn before me this 20th day of December 2018
Christian K. 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 our use of your personal information, please contact DEP's Chief Privacy Officer at deprivacoefficer@wv.gov.

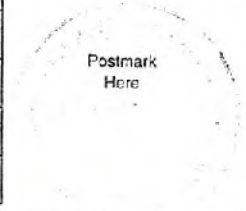
U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

7010 3090 0002 4255 0356

| | |
|---|----|
| Postage | \$ |
| Certified Fee | |
| Return Receipt Fee (Endorsement Required) | |
| Restricted Delivery Fee (Endorsement Required) | |
| Total Postage & Fees | \$ |



Sent To David Hanson MC-47
 Street, Apt. No.,
 or PO Box No. 790 Dragon HWY
 City, State, ZIP+4 Conover, WV

47-051-01136P

WW-9
(5/16)

API Number 47 - 051 - 01136
Operator's Well No. MC-47A

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) Middle Grave Creek - Grave Creek Quadrangle Cameron, WV 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No 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 the 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 cuttings 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.

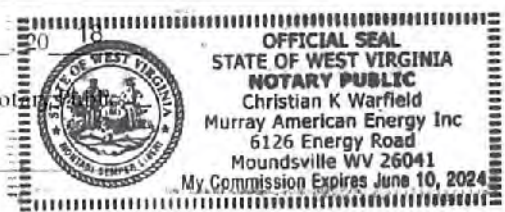
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 Jay Hores
Company Official (Typed Name) Jay Hores
Company Official Title Project Engineer

Subscribed and sworn before me this 20th day of December

Chris K. Warfield Notary Public

My commission expires June 10, 2024



47-051-01136A

**MURRAY AMERICAN ENERGY, INC.
& CONSOLIDATION COAL COMPANY**

**MURRAY AMERICAN ENERGY,
INC. & CONSOLIDATION COAL
COMPANY**

46226 National Road
St. Clairsville, OH 43950

phone: 304.843.3565

fax: 304.843.3546

e-mail: JayHores@coalsource.com

JAY HORES

Project Engineer

December 20, 2018

Department of Environmental Protection
Office of Oil and Gas
601-57th Street
Charleston, WV 25320

To Whom It May Concern,

As per the Division of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil & Gas Pit Waste Discharge Application), Consolidation Coal Company will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP facilities number U-0033-83, O-1001-00, U-1035-91U-46-84, U-78-83, O-1044-9, or U-100-83.

Sincerely,



Jay Hores
Project Engineer

RECEIVED
Office of Oil and Gas
MAR 14 2019
WV Department of
Environmental Protection

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

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): Middle Grave Creek - Grave Creek Quad: Cameron, WV 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.

N/A

- 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.

N/A

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

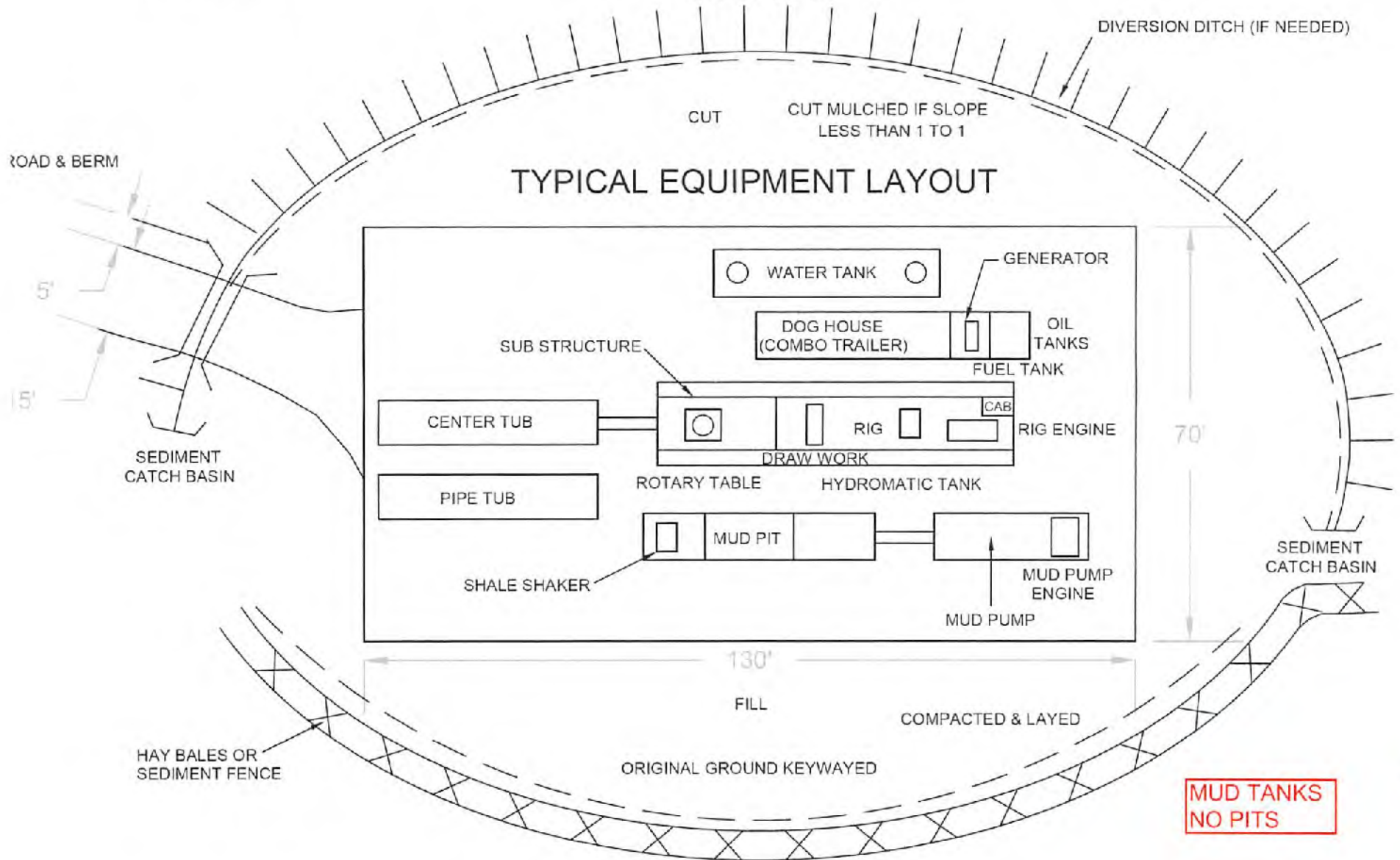
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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

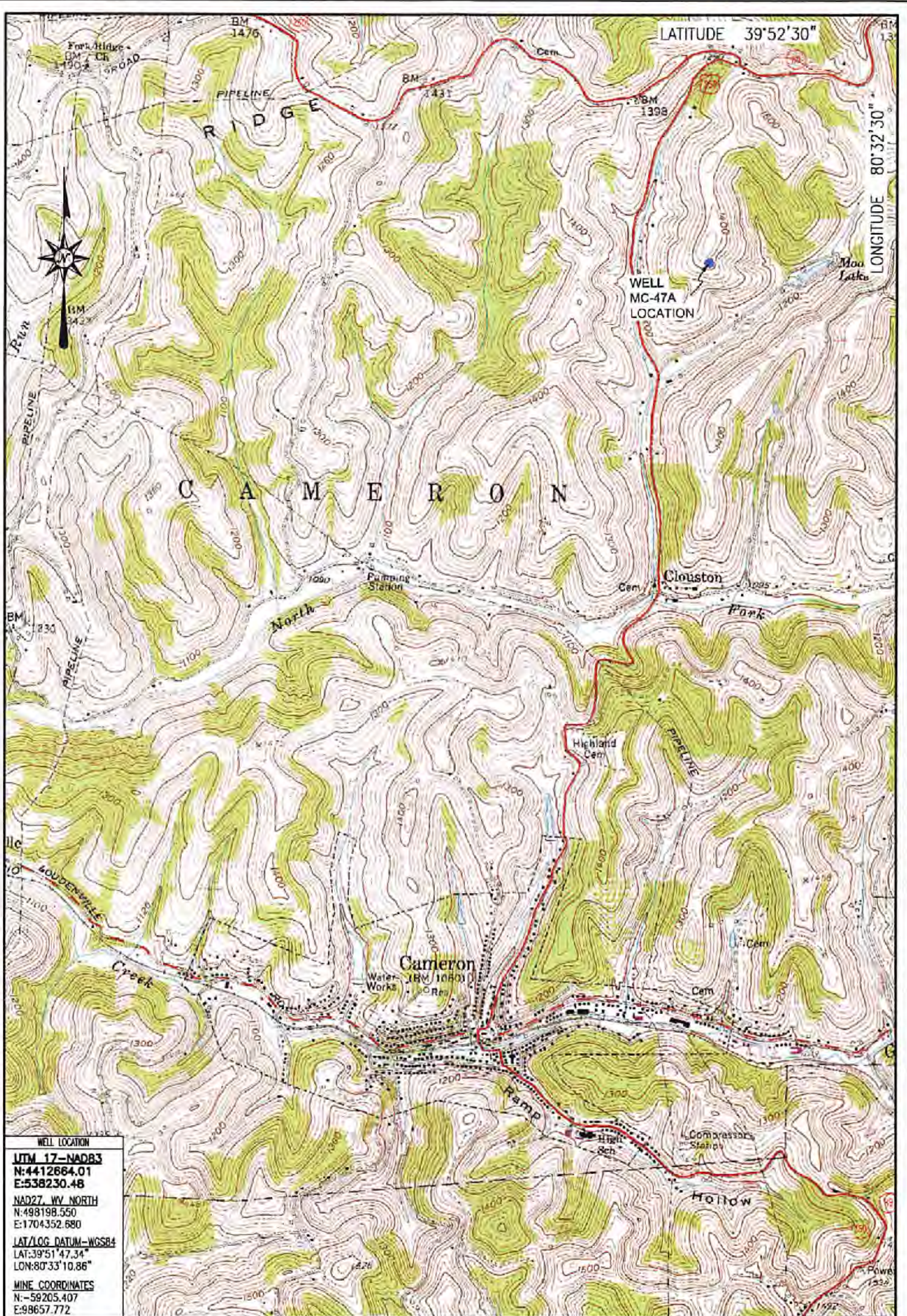
Signature: _____

Date: _____

TYPICAL DRAWING OF
WELL PLUGGING
SITE PLAN



47-051-0126P



LOCATION MAP
DECEMBER 20, 2018

Blue Mountain
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

MC-47A
CAMERON QUADRANGLE
WEST VIRGINIA

SCALE 1" = 2000'





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

API: 47-051-01136 WELL NO.: MC-47A

FARM NAME: Hanson

RESPONSIBLE PARTY NAME: Murray Energy Corporation

COUNTY: Marshall DISTRICT: Cameron

QUADRANGLE: Cameron, WV 7.5'

SURFACE OWNER: David L. & Christina M. Hanson

ROYALTY OWNER: _____

UTM GPS NORTHING: 4412664.01 (1387.05')

UTM GPS EASTING: 538230.48 GPS ELEVATION: 422.77

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.

Jeffrey A. Muggione
Signature

Well Permitting Manager
Title

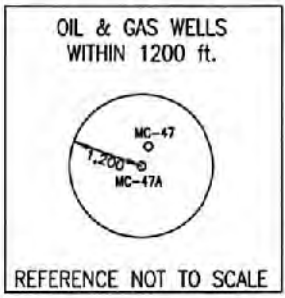
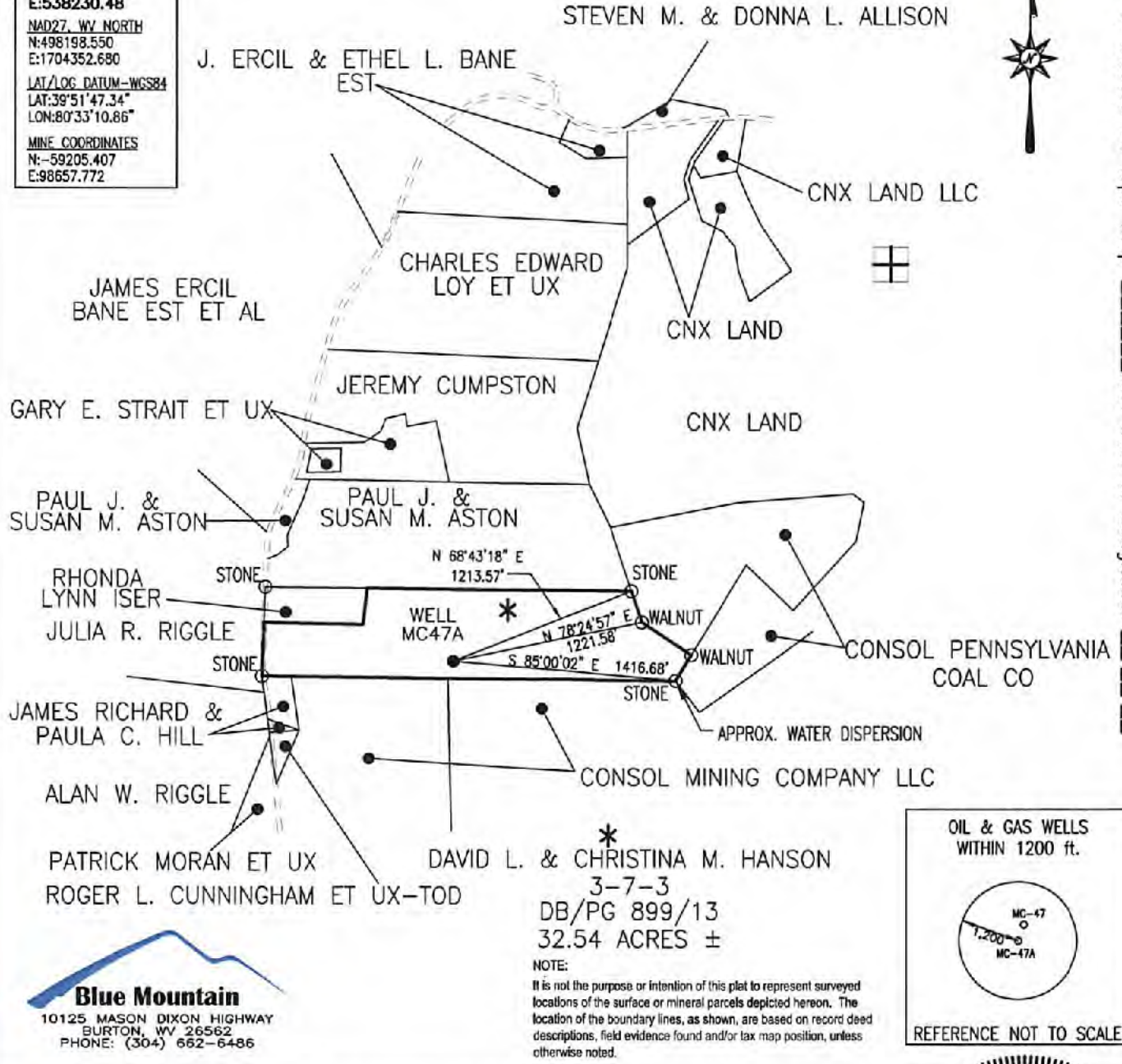
20 December 2018
Date

47-051-0136P

Well is located on topo map 4,367' feet south of Latitude: 39° 52' 30"

Well is located on topo map 3,244' feet west of Longitude: 80° 32' 30"

WELL LOCATION
UTM 17-NAD83
 N:4412664.01
 E:538230.48
 NAD27, WV NORTH
 N:498198.550
 E:1704352.680
 LAT/LOG DATUM-WGS84
 LAT:39°51'47.34"
 LON:80°33'10.86"
 MINE COORDINATES
 N:-59205.407
 E:98657.772



NOTE:
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

FILE #: MC-47A
 DRAWING #: MC-47A
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.
 Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: DECEMBER 20, 2018
 OPERATOR'S WELL #: MC-47A
 API WELL #: 47 51 01136 P
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1387.05'

COUNTY/DISTRICT: MARSHALL / CAMERON QUADRANGLE: CAMERON, WV 7.5'

SURFACE OWNER: DAVID L. & CHRISTINA M. HANSON ACREAGE: 32.54±

OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

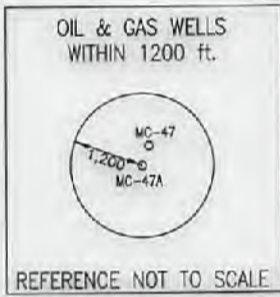
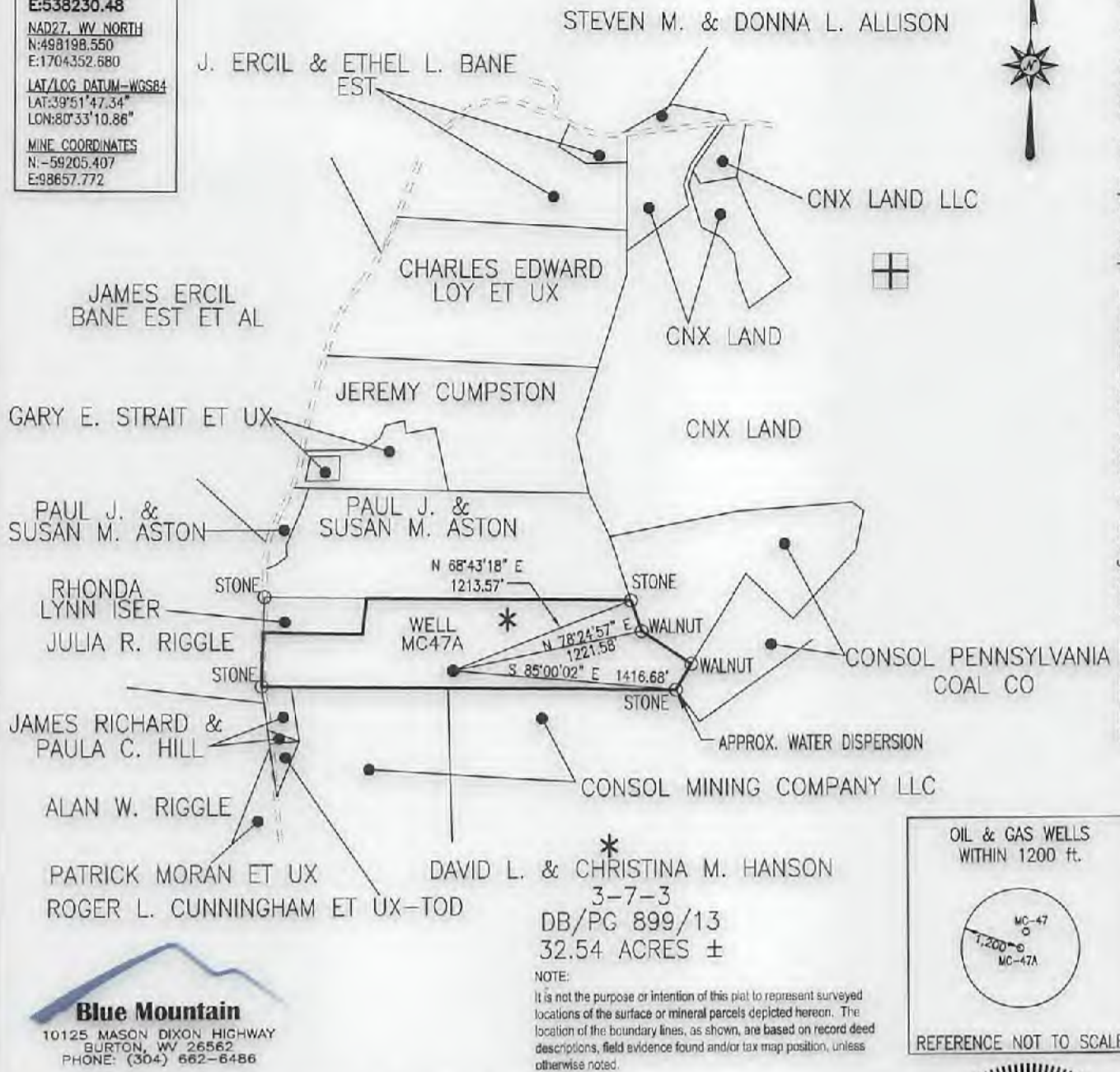
TARGET FORMATION: PITTSBURGH ESTIMATED DEPTH: 905'±

WELL OPERATOR MURRAY ENERGY CORPORATION DESIGNATED AGENT DAVID RODDY
 Address 6126 ENERGY DRIVE Address 6126 ENERGY DRIVE
 City MOUNDSVILLE State WV Zip Code 26041 City MOUNDSVILLE State WV Zip Code 26041

Well is located on topo map 4,367' feet south of Latitude: 39° 52' 30"

Well is located on topo map 3,244' feet west of Longitude: 80° 32' 30"

WELL LOCATION
UTM 17-NAD83
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 NAD27, WV NORTH
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 E:1704352.680
 LAT/LOG DATUM-WGS84
 LAT:39°51'47.34"
 LON:80°33'10.86"
 MINE COORDINATES
 N:-59205.407
 E:98657.772



Blue Mountain
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

NOTE:
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

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 DRAWING #: MC-47A
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 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.

Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: DECEMBER 20, 2018
 OPERATOR'S WELL #: MC-47A
 API WELL #: 47 51 01136-P
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1387.05'
 COUNTY/DISTRICT: MARSHALL / CAMERON QUADRANGLE: CAMERON, WV 7.5'
 SURFACE OWNER: DAVID L. & CHRISTINA M. HANSON ACREAGE: 32.54±
 OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____
 TARGET FORMATION: PITTSBURGH ESTIMATED DEPTH: 905'±
 WELL OPERATOR MURRAY ENERGY CORPORATION DESIGNATED AGENT DAVID RODDY
 Address 6126 ENERGY DRIVE Address 6126 ENERGY DRIVE
 City MOUNDSVILLE State WV Zip Code 26041 City MOUNDSVILLE State WV Zip Code 26041

McLaughlin, Jeffrey W

From: Hores, Jay <JayHores@coalsource.com>
Sent: Wednesday, March 27, 2019 12:45 PM
To: McLaughlin, Jeffrey W; Nicholson, James I
Cc: Smith, Mason
Subject: Marshall County Well Permit Issues

Jeff,
Thank you for all your help on the approved permits. I know your office is very busy and thorough but I wanted to let you know what issues are still out there for us.

Current permits out at DEP

M-1759 47-051-70099 Submitted 12/23/18 Hoping to plug in May 2019

Issued 5/10/2019

Our land department is currently working on a deal with Latichia Richard's house gas for **M-1079** 47-051-0605. **Waiting on us to resolve or provide more information**

I believe we are going to report house gas production on **M-1605** 47-051-0746 to remove it from the consent order list, who also contacted us about house gas. **Waiting on us to show production, to remove from the consent order and withdraw the plugging permit**

M-1079 Have you heard anything back about the API number issue with 47-051-0797? The last I heard, Jim sent it up for review.

MC-111

MC-122

MC-45

MC-46

MC-47

All recently submitted 3/12/19 with WW-7 revision sent 3/22/19. **Waiting on formal OP-77 and check from Steptoe and Johnson (CNX)**

We also have inquired about the process necessary to remove API #'s from mine ventilation borehole's. These boreholes are no longer producing saleable gas but are still used as pressure relief since they intersect sealed areas attached to current mine operations.

Again I realize how busy you are but I would greatly appreciate any input you might have on the issues above.

Thanks,
Jay Hores
Project Engineer
Murray American Energy
6126 Energy Road
Moundsville, WV 26041
Office: (304) 843-3565
Cell: (740) 310-7008