



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, June 3, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC.
RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for SHARP 2
47-015-02143-00-00

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: SHARP 2
Farm Name: COEN, JAMES
U.S. WELL NUMBER: 47-015-02143-00-00
Vertical Plugging
Date Issued: 6/3/2020

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.

1) Date February 24, 2020
2) Operator's
Well No. Sharp #2
3) API Well No. 47-015 - 02143P

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 1239' Watershed Mudfork Run
District Otter County Clay Quadrangle Ivydale

6) Well Operator Ross & Wharton Gas Co. Inc. 7) Designated Agent Mike Ross
Address 354 Morton Ave. Address P.O. Box 219
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Jeremy James
Address P.O. Box 36
Clendenin, WV 25045
9) Plugging Contractor Name N/A
Address _____

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

Free point and recover casing's & tubular's

6% Gel between plug's

Set cement plug 2200' to TD (2464') Plug 100' above top perf

Set 100' cement plug across casing cut

Set cement plug 1850' to 1950' Blue Monday

Set cement plug 1200' to 1300' (salt bearing strata) elevation plug

Set cement plug 250' to surface, (8" casing plug, freshwater protection plug

and surface plug) Tag plug's as necessary, Set monument with API number

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WV Department of
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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



Date

3-17-2020

JUN - 6 1982



IV-95
(REV 8-81)

C. & GAS DIVISION
DEPT. OF MINES State of West Virginia
Department of Mines
Oil and Gas Division

Date: December 7, 1982
Operator's Well No. 2-S-287
Farm Sharp
API No. 47 - 015 - 2143

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WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow)

LOCATION: Elevation: 1239 Watershed Mudfork Run
District: Otter County Clay Quadrangle Ivydale

COMPANY Stonestreet Lands Company
ADDRESS P.O. Box 350 Spencer, W.Va. 25276
DESIGNATED AGENT O.V. Stonestreet
ADDRESS P.O. Box 350 Spencer, W.Va. 25276
SURFACE OWNER James L. Coen
ADDRESS Michael Coen 112 W. Dixie Blv. Elizabeth town, Ky.
MINERAL RIGHTS OWNER Woodrow Metheny, Itals
ADDRESS Nebo, W.Va.
OIL AND GAS INSPECTOR FOR THIS WORK Martin
Nichols ADDRESS P.O. Box 554 Clendenin, WV

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Coul.			
13-10"			
4 5/8			
8 5/8	204	204	60 sks
7			
5 1/2			
4 1/2		2370	70 sks rfd
3			
2			
Linings used			

PERMIT ISSUED April 19, 1982
DRILLING COMMENCED 4-28-82
DRILLING COMPLETED 5-8-82
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

GEOLOGICAL TARGET FORMATION Big Injun Depth 2368 feet
Depth of completed well 2464 feet Rotary X / Cable Tools
Water strata depth: Fresh 485 feet; Salt feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 2329 feet
Gas: Initial open flow 60 Mcf/d Oil: Initial open flow 0 bbl/d
Final open flow 540 Mcf/d Final open flow 0 bbl/d
Time of open flow between initial and final tests 7 hours
Static rock pressure 620 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--) Production test co-mingled
Second producing formation Blue Monday Pay zone depth feet
Gas: Initial open flow 60 Mcf/d Oil: Initial open flow 0 bbl/d
Final open flow 540 Mcf/d Oil: Final open flow 0 bbl/d
Time of open flow between initial and final tests 7 hours
Static rock pressure 620 psig (surface measurement) after 48 hours shut in

CLAY 2143

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforation Intervals 2311-2329

Well Treatment

J-266 350 lbs. 20/40 sand 30,000 W-22 Anti sludging 36 gals.
L-53 Cally control agent 20 gals. F-78 ezeflo surfactant 8 gals.
15% Acid HCL 2000 gals. 500 bbls. water A-200 inhibitor 4 gals.

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WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	22	
Sand			22	45	
Sand & Shale			45	115	
Red Rock			115	155	
Sand & Shale			155	275	
Red Rock			275	390	
Sand & Shale			390	435	
Red Rock			435	480	
Sand & Shale			480	615	
Red Rock			615	790	
Shale			790	830	
Sand			830	1000	
Sand & shale			1000	1110	
Shale			1110	1136	
Sand & Shale			1136	1270	
Shale			1270	1452	
Sand & Shale			1452	1550	
Shale			1550	1706	
Sand & Shale			1706	1816	
Shale			1816	1830	
Salt sand			1830	1864	
Shale			1864	1970	
Salt sand			1970	2114	
Little Lime			2114	2144	
Pencil cave			2144	2182	
Big Lime			2182	2298	
Big Injun			2298	2368	
Shale			2368	2464	TD

(Attach separate sheets as necessary)

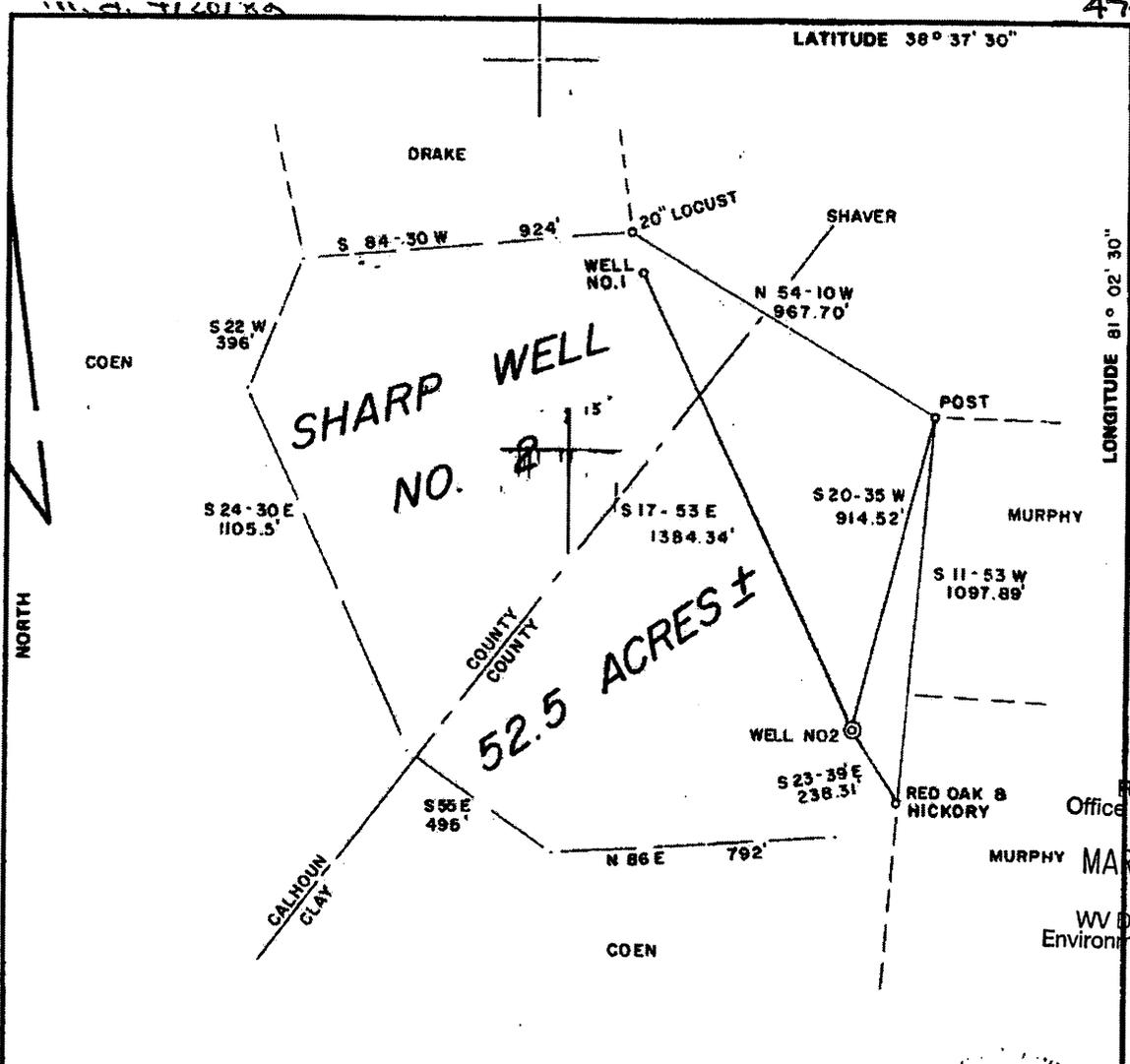
Stonestreet Lands Company

Well Operator

By: *[Signature]* General Manager

Date: December 19, 1982

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



47-007-02143P

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FILE NO. 6-32 Sharp
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF
ACCURACY 1/200
PROVEN SOURCE OF
ELEVATION JCT. OF ROADS
ELEV. 952'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) Gregory A. Smith
R.P.E. _____ L.L.S. 677



(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
FORM IV-6
(8-78)



DATE APRIL 14, 19 82
OPERATOR'S WELL NO. 2-5-287
API WELL NO. _____
47 - 015 - 2143
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1239' WATER SHED MUDFORK RUN
DISTRICT OTTER COUNTY CLAY
QUADRANGLE IVYDALE 7.5
SURFACE OWNER JAMES L. COEN ACREAGE 52.5 ac.
OIL & GAS ROYALTY OWNER WOODROW METHENEY LEASE ACREAGE 52.5 ac.
LEASE NO. _____
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2200'
WELL OPERATOR STONESTREET LANDS CO. DESIGNATED AGENT O. V. STONESTREET
ADDRESS P.O. BOX 350, SPENCER W.Va. ADDRESS P.O. BOX 350, SPENCER W.Va.

WW-4A
Revised 6-07

1) Date: February 24, 2020
2) Operator's Well Number
Sharp #2 _____
3) API Well No.: 47 - 015 - 02143

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

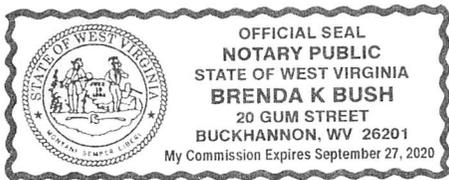
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Troxel and/or Connie Metheny</u>	Name <u>N/A</u>
Address <u>974 Mud Fork Rd.</u>	Address _____
<u>Chloe, WV 25325</u>	_____
(b) Name <u>Darrell Murphy</u>	(b) Coal Owner(s) with Declaration
Address <u>2990 Clinic Rd.</u>	Name <u>N/A</u>
<u>Chloe, WV 25325</u>	Address <u>RECEIVED</u>
(c) Name _____	<u>Office of Oil and Gas</u>
Address _____	<u>MAR 26 2020</u>
_____	<u>WV Department of</u>
_____	<u>Environmental Protection</u>
6) Inspector <u>Jeremy James</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 36</u>	Name <u>N/A</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>1-304-951-2596</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 Ross & Wharton Gas Co. Inc.
By: [Signature]
Its: _____
Address 354 Morton Ave.
Buckhannon, WV 26201
Telephone 1-304-472-4289

Subscribed and sworn before me this 13th day of March, 2020,
Brenda K Bush Notary Public
My Commission Expires September 27, 2020

Oil and Gas Privacy Notice

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

WW-9
(5/16)

API Number 47 - 015 - 02143
Operator's Well No. Sharp #2

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

Operator Name Ross & Wharton Gas Co. Inc. OP Code 306580

Watershed (HUC 10) Mudfork Quadrangle Ivydale

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

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE.

gwa

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 _____)

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Will closed loop system be used? If so, describe: _____

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

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

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 Mike Ross

Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 13th day of March, 2020

Brenda K Bush

Notary Public

My commission expires September 27, 2020



Operator's Well No. Sharp #2

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

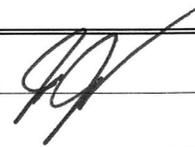
Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Contractor's Mix		Contractor's Mix	
Fescue	30	Fescue	30

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: Jeremy James 

Comments: _____

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Title: inspector OOG Date: 3-17-2020

Field Reviewed? () Yes () No

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

Operator Name: Ross & Wharton Gas Co. Inc.

Watershed (HUC 10): Mudfork Run Quad: Ivydale

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.

N/A

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

Mudfork Run

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

N/A

- 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.

No material will be used

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.

N/A

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

N/A

Signature: Mike Ross

Date: March 13, 2020

47-015-02143 TP



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WW-7
8-30-06



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

API: ~~47-015-1775~~ 47-015-02143 WELL NO.: #2

FARM NAME: Sharp RECEIVED Office of Oil and Gas

RESPONSIBLE PARTY NAME: Mike Ross MAR 26 2020

COUNTY: Clay DISTRICT: Otter WV Department of Environmental Protection

QUADRANGLE: Ivydale

SURFACE OWNER: Troxel or Connie Metheney

ROYALTY OWNER: _____

UTM GPS NORTHING: 4274982.9

UTM GPS EASTING: 493894.0 GPS ELEVATION: 1239'

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.

Mike Ross
Signature

President
Title

March 13, 2020
Date