



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, April 21, 2017
WELL WORK PERMIT
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 1-S-236
47-007-01677-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 1-S-236
Farm Name: HART, HERBERT
U.S. WELL NUMBER: 47-007-01677-00-00
Vertical / Plugging
Date Issued: 4/21/2017

Promoting a healthy environment.

04/21/2017

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.

701677P

WW-4B
Rev. 2/01

1) Date February 16, 2017
2) Operator's Well No. Hart, H.
3) API Well No. 47-007 - 01677

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 X or Underground storage ___) Deep ___/ Shallow X

5) Location: Elevation 1023 Watershed Plantation Fork of Steer Creek
District Birch County Braxton Quadrangle Rosedale

6) Well Operator Ross & Wharton 7) Designated Agent Mike Ross
Address Route 5 Box 29 Address PO Box 219
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Danny Mullins
Address 220 Jack Acres Road
Buckhannon, WV 26201
9) Plugging Contractor Name Unknown
Address _____

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

2174 - TD

Run 6% Gel between each plug

2174 - 1886 Set Cement Plug → FREE POINT 4 1/2, CUT & PULL. SET 100' CLASS A PLUG ACROSS CUT.

1550 - 1450 Set Cement Plug

1070 - 970 Set Cement Plug

²⁵⁰
~~100~~ - 0 Set Cement Plug COVER 8 1/2 CASING SCAT

Set Monument with API Number

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Free point AN PULL ALL CASING

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

Work order approved by inspector Danny Mullins Date 3-1-17

04/21/2017

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OG-10
Rev. - 9-71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Rosedale
Permit No. 47-007-1677

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Stonestreet Lands Company
Address P.O. Box 350 Spencer, W.Va.
Farm H. Hart # 1 Acres 110
Location (waters) Plantation Fork Of Steer Creek
Well No. Y-S-236 Elev. 1023
District Birch County Braxton
The surface of tract is owned in fee by _____
Herbert Hart
Address Gassaway, WV
Mineral rights are owned by Herbert Hart
Address Gassaway, WV
Drilling Commenced 6-9-81
Drilling Completed 6-13-81
Initial open flow 15,000 cu. ft. 0 bbls.
Final production 630,000 cu. ft. per day Show bbls.
Well open 6 hrs. before test 515 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			60 sks
Cond. 13-10"			
9 5/8			
8 5/8	200	200	
7			
5 1/2			
4 1/2		2174	
3			
2			
Liners Used			

Well treatment details:
J-266 Gell 250 lbs. J-218 Gell breaker 99 lbs. Attach copy of cementing record.
J-318 Gell breaker and 20 gals. Yfspd conversion charge 14,700 gals.
L-53 Clay control agent 15 gals. F-78 ezeflo surfactant 10 gals.
W-22 Anti sludging 15 gals. acid 15% HCL 500 gals. 500 bbls. water
A-200 Inhibitor 1 gal. M-76 bactericide 15 gals.
20/40 sand 30,000 lbs. 80/100 sand 15,000 lbs.
Coal was encountered at None Feet _____ Inches
Fresh water 70 Feet _____ Salt Water _____ Feet _____
Producing Sand Blue Monday, Big Injun Depth 1886-2134

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Not recorded			0	1000		0 to 1000 not recorded is continued on the back
Shale			1000	1042		
Sand & Shale			1042	1072		
Shale			1072	1144		
Sand & Shale			1144	1228		
Shale			1228	1284		
Sand & Shale			1284	1298		
Shale			1298	1308		
Sand & Shale			1308	1318		
Shale			1318	1334		
Sand & Shale			1334	1350		
Shale			1350	1370		
Sand & Shale			1370	1378		
Shale			1378	1400		
Sand & Shale			1400	1414		
Shale			1414	1422		
Sand & Shale			1422	1428		
Shale			1428	1458		
Salt sand			1458	1482		
Shale			1482	1582		
Salt sand			1582	1602		
Shale			1602	1628		
Salt sand			1628	1664		
Shale			1664	1668		
Salt sand			1668	1682		

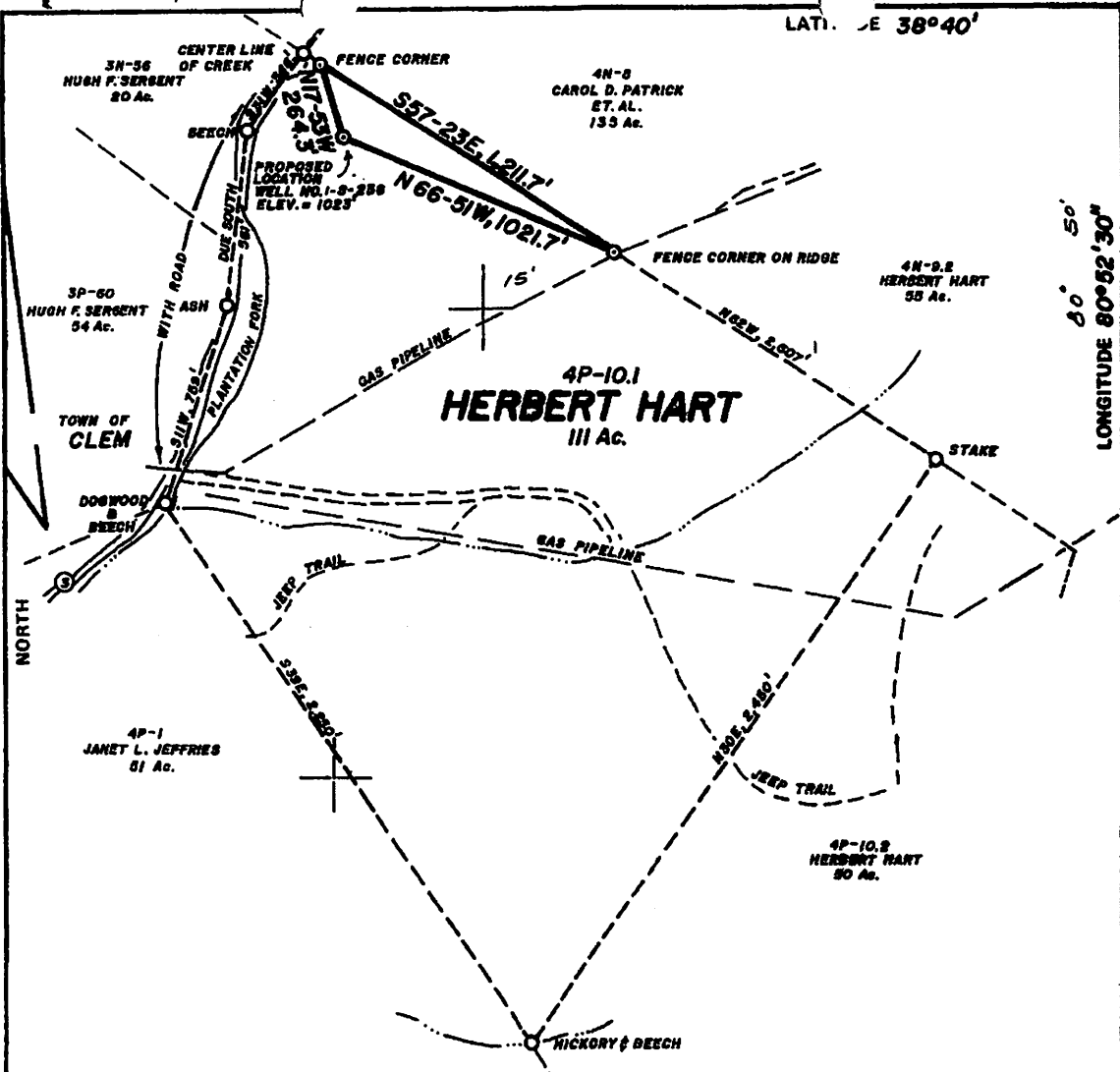
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MAR 06 1981
West Virginia Department of
Environmental Protection
04/2/2017

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1682	1842		
Little Lime			1842	1886		
Blue Monday			1886	1928		
Big Lime			1928	1986		
Kenner			1986	1996		
Big Injun			1996	2134		
Shale			2134	2210	TD	
Clay			0	25		
Sand & Shale			25	55		
Red Rock			55	90		
Sand & Shale			90	115		
Red Rock			115	145		
Sand & Shale			145	175		
Red Rock			175	201		
Sand & Shale			201	240		
Red Rock			240	278		
Sand & Shale			278	312		
Red Rock			312	340		
Sand & Shale			340	390		
Red Rock			390	425		
Sand & Shale			425	460		
Red Rock			460	501		
Sand & Shale			501	550		
Red Rock			550	580		
Sand & Shale			580	601		
Red Rock			601	660		
Sand & Shale			660	690		
Shale			690	730		
Sand & Shale			730	782		
Shale			782	825		
Sand & Shale			825	864		
Shale			864	915		
Sand & Shale			915	1000		

Date September 17, 19 81

APPROVED [Signature]
General Manager

70-1677P



FILE NO. HART NO. 1
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:500
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION AT DESSIE. ELEV. = 915

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 MINES.
 (SIGNED) Cliff Walker
 R.P.E. _____ L.L.S. 717

PLACE SEAL HERE

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



DATE JUNE 3, 1981
 OPERATOR'S WELL NO. 1-S-238
 API WELL NO. 47-007-1677
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1023' WATER SHED PLANTATION FORK OF STEER CREEK
 DISTRICT BIRCH COUNTY BRAXTON
 QUADRANGLE ROSEDALE 7.0'
 SURFACE OWNER HERBERT HART ACREAGE 110 Ac.
 OIL & GAS ROYALTY OWNER HERBERT HART LEASE ACREAGE 110 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL 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 2070'
 WELL OPERATOR STONE STREET LANDS CO. DESIGNATED AGENT O.V. STONESTREET
 ADDRESS SPENCER, WV. ADDRESS SPENCER, WV.

701677P

WW-4A
Revised 6-07

1) Date: February 16, 2017
2) Operator's Well Number
Hart, H. 1-S-236
3) API Well No.: 47 - 007 - 01677

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>Herbert Hart</u>	Name <u>N/A</u>
Address <u>1125 Cutlip Fork Road</u> <u>Gassaway, WV 26624</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
(c) Name _____	Address _____
Address _____	Name _____
(6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Buckhannon</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-932-6844</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 reverse side. However, you are not required to take any action at all.

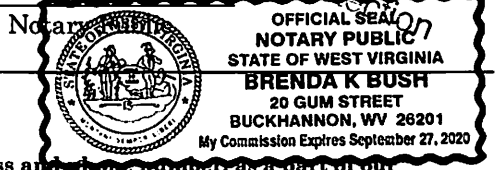
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 (Mike Ross Inc.)
 By: Mike Ross
 Its: President
 Address PO Box 219
Coalton, WV 26257
 Telephone 304-472-4289

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 WV Department of
 Environmental Protection

Subscribed and sworn before me this 16th day of February, 2017

Brenda K Bush
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 numbers, 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.

04/21/2017

701677P

Mike Ross Inc.

(304) 472-4289 (Office) Box 219 Coalton, WV 26257 (304) 472-7405 (Fax)

February 16, 2017

Herbert Hart
1125 Cutlip Fork Road
Gassaway, WV 26624

Re: Hart, H. 1-S-236 Plugging Permit

Dear Herbert:

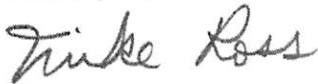
Mike Ross Inc. is in the process of applying for a permit to plug the above referenced well. Enclosed are copies of the Notice and Application for well plugging permits and the location plats.

Please note the instructions on the surface owner waiver. If you have no objection to the plugging being done, please sign the waiver and return it to our office.

If you have any questions, please do not hesitate to contact this office.

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Office of Oil and Gas
MAR 06 2017
WV Department of
Environmental Protection

Thank you,



Mike Ross Inc.

7016 2140 0001 1545 5536

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CERTIFIED MAIL® RECEIPT	
<i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 3.35	Postmark Here Sent 3/2/17
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy) \$ 2.75	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ 0.88	
Total Postage and Fees \$ 6.98	
Herbert Hart 1125 Cutlip Fork Road Gassaway, WV 26624	
See Reverse for Instructions	

04/21/2017

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Ross & Wharton (Mike Ross Inc.) OP Code 305680

Watershed Plantation Fork of Steer Creek Quadrangle Rosedale

Elevation 1023 County Braxton District Birch

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? ~~Yes~~

NO PIT. STEEL TANK WILL BE USED FOR ANY WELL EFFLUENT AND IT WILL BE DISPOSED OF PROPERLY, OFF-SITE.

Proposed Disposal Method For Treated Pit Wastes:

- NO Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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

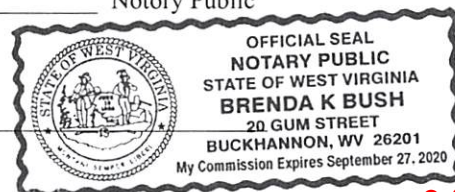
Company Official Title President

Subscribed and sworn before me this 16th day of February, 2017

Brenda K Bush


Notary Public

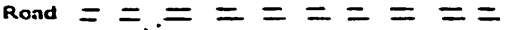
My commission expires September 27, 2020

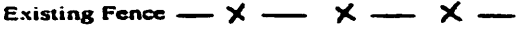


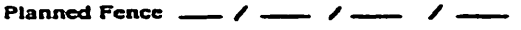
04/21/2017


LEGEND

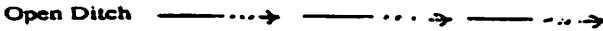
Property Boundary 

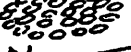
Road 


Existing Fence 


Planned Fence 


Stream 


Open Ditch 


Rock 


North 


Buildings 


Water wells 


Drill site 


Diversion 


Spring 


Wet Spot 


Drain Pipe with size in inches 

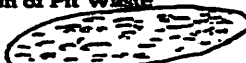
Waterway 

Cross Drain 

Artificial Filter Strip 

Pit: cut walls 

Pit: compacted fill walls 

Area for Land Application of Pit Waste 

Proposed Revegetation Treatment: Acres Disturbed 1 Acre Prevegetation pH 6.5
 Lime 2 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 50% lbs/acre (500 lbs minimum)
 Mulch _____ Tons/acre

Seed Mixtures

Seed Type	Area I	Area II
	lbs/acre	lbs/acre
Fescue	_____	_____
Contractors Mix	_____	_____
_____	_____	_____

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

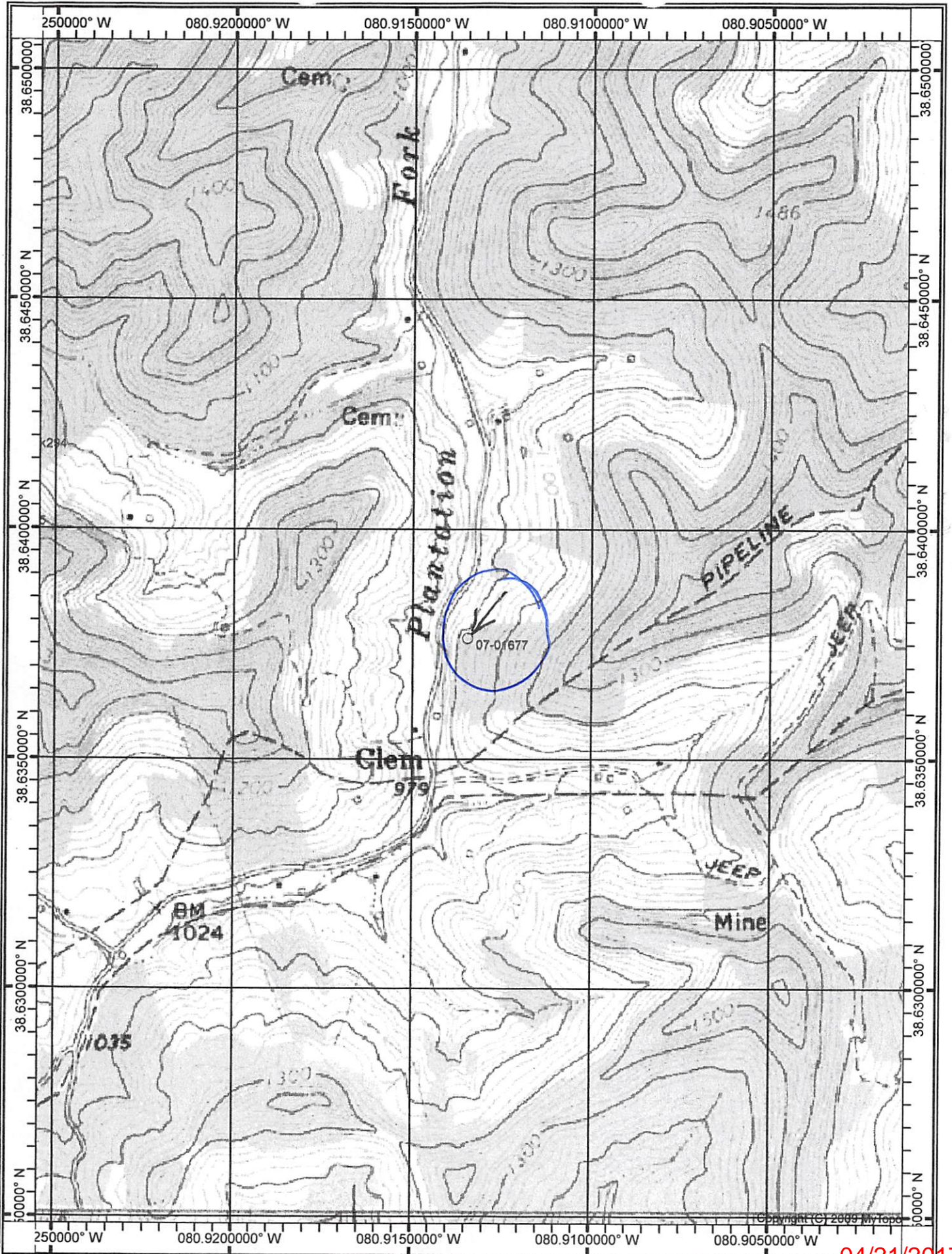
Title: President

Date: February 16, 2017

Field Reviewed? () Yes () No

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 WV Department of
 Environmental Protection

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04/21/2017

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-007-01677 WELL NO.: 1-S-236

FARM NAME: Hart, H.

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Salt Lick

QUADRANGLE: Burnsville

SURFACE OWNER: Herbert Hart

ROYALTY OWNER: Herbert Hart

UTM GPS NORTHING: 427657.3

UTM GPS EASTING: 507529 GPS ELEVATION: 1023

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

April 1, 2014
Date