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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

August 08, 2014

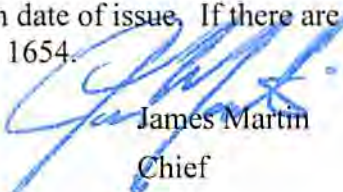
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-701677, issued to ROSS & WHARTON GAS CO INC, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 1-S-236  
Farm Name: HART, HERBERT  
**API Well Number: 47-701677**  
**Permit Type: Plugging**  
Date Issued: 08/08/2014

Promoting a healthy environment.

08/08/2014

## 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.

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### CONDITIONS

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

1) Date April 1, 2014  
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 Bryan Harris  
PO Box 157  
Volga, WV 26238
- 9) Plugging Contractor  
Name Unknown  
Address \_\_\_\_\_

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

2174 - TD 2210'

Run 6% Gel between each plug

2174 - 1886 Set Cement Plug

1550 - 1450 Set Cement Plug

1070 - 970 Set Cement Plug

250'

400 - 0 Set Cement Plug

Set Monument with API Number

*• FREEPOINT, CUT/PULL 8 5/8" CASING.*

*• PLACE A MINIMUM OF 100' OF CEMENT ACROSS CASING CUT.*

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

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MAY 12 2014

Work order approved by inspector Bryan O'Hanlon

Date 5-7-14 WV Department of Environmental Protection

08/08/2014

OG-10  
Rev. - 9-71



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division  
WELL RECORD

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

Quadrangle Rosedale  
Permit No. 47-007-1677

Company Stonestreet Lands Company  
Address P.O. Box 350 Spencer, W.Va.  
H. Hart # 1  
Farm Acres 110  
Location (waters) Plantation Fork Of Steer Creek  
Well No. 1-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. (Skts.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	200	200	60 sks
7			
5 1/2			
4 1/2		2174	70 sks rfc
3			
2			
Liners Used			

Well treatment details:  
J-266 Gell 250 lbs. J-218 Gell breaker 99 lbs.  
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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WV Department of  
Environmental Protection  
08/08/2014



Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1682	1842	TD	
Little Lime			1842	1886		
Blue Monday			1886	1928		
Big Lime			1928	1986		
Kenner			1986	1996		
Big Injun			1996	2134		
Shale			2134	2210		
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		

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Date September 17, 1981

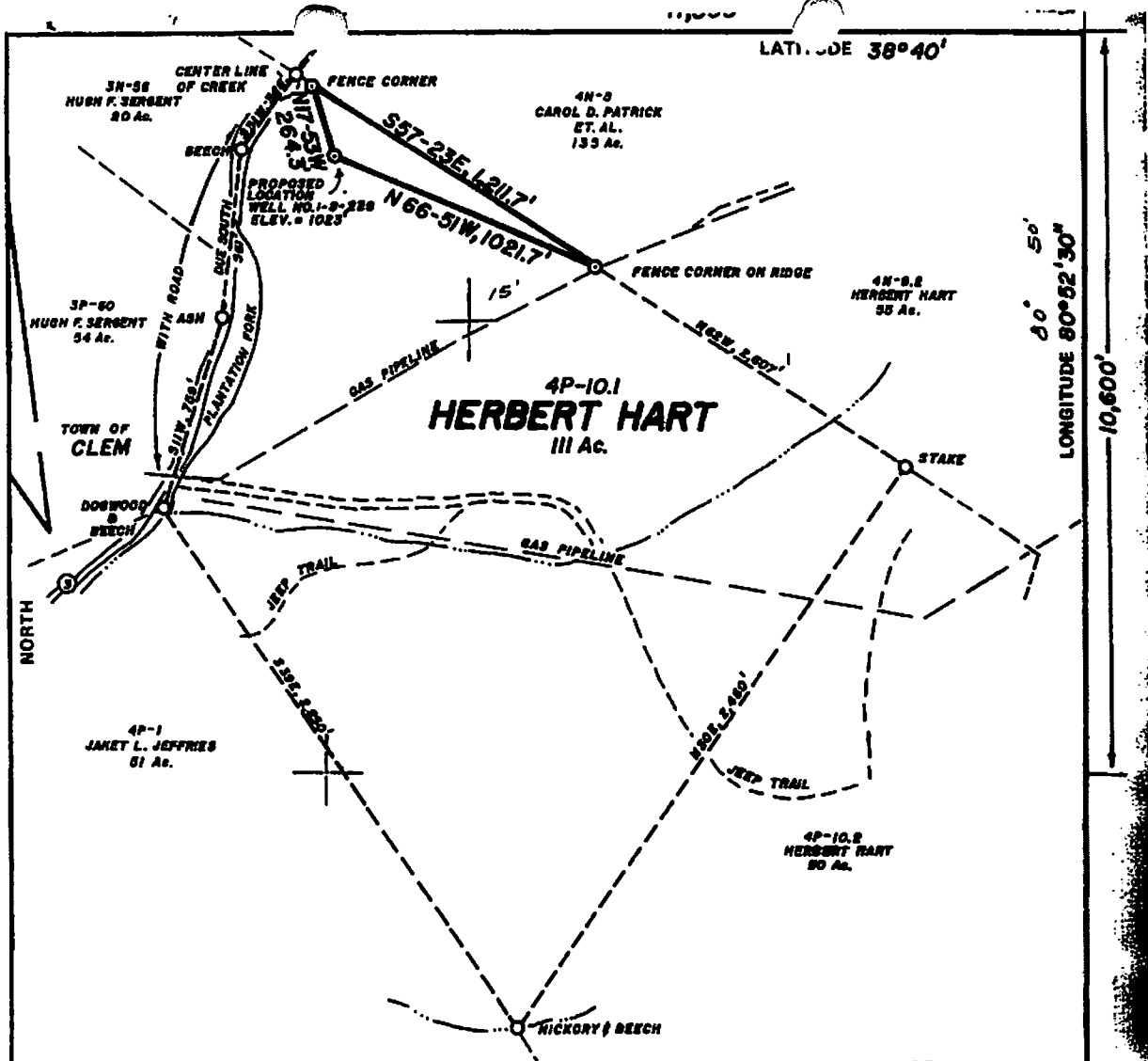
MAY 12 2014

APPROVED

General Manager

Department of  
Environmental Protection

08/08/2014



FILE NO. M.HART NO. 1  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:800  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION AT DESSIE. ELEV. = 815

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. 1-3-238  
 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 ROBEDALE 7.0'  
 SURFACE OWNER HERBERT HART ACREAGE 110.06  
 OIL & GAS ROYALTY OWNER HERBERT HART LEASE ACREAGE 110.06  
 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 S10 IN JUN ESTIMATED DEPTH 500'  
 WELL OPERATOR STONE STREET LANDS CO. DESIGNATED AGENT OY STONESTREET  
 ADDRESS SPENCER, WV. ADDRESS SPENCER, WV.

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WV Department of  
 Environmental Protection

08/08/2014

701677A

WW-4A  
Revised 6-07

1) Date: April 1, 2014  
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>	Address _____
<u>Gassaway, WV 26624</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 157</u>	Name <u>N/A</u>
<u>Volga, WV 26238</u>	Address _____
Telephone <u>304-553-26238</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>Ross &amp; Wharton (Mike Ross Inc.)</u>
	By <u>Mike Ross</u>
	Its <u>President</u>
	Address <u>PO Box 219</u>
	Telephone <u>Coalton, WV 26257</u> <u>304-472-4289</u>

Subscribed and sworn before me this 22nd day of April, 2014  
Brenda K. Bush Notary Public  
My Commission Expires September 27, 2020

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**Office of Oil and Gas**

**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. 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](mailto:depprivacyofficer@wv.gov).

MAY 12 2014  
WV Department of Environmental Protection  
08/08/2014

701677P

# Mike Ross Inc.

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

May 7, 2014

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.

Thank you,



Mike Ross Inc.

U.S. Postal Service <sup>TM</sup>		<b>CERTIFIED MAIL<sup>TM</sup> RECEIPT</b>	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>			
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a> .			
<b>OFFICIAL USE</b>			
Postage	\$ 0.90	5/9/14 RECEIVED Office of Oil and Gas MAY 12 2014	
Certified Fee	3.30		
Return Receipt Fee (Endorsement Required)	2.70		
Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees	\$ 6.90		
Sent To		Herbert Hart	
Street, Apt. No. or PO Box No.		1125 Cutlip Fork Road	
City, State, ZIP		Gassaway, WV 26624	
PS Form 3800, August 2006		See Reverse for Instructions	

08/08/2014



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? ~~No~~ YES . 20 MIL

Proposed Disposal Method For Treated Pit Wastes:

- 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*

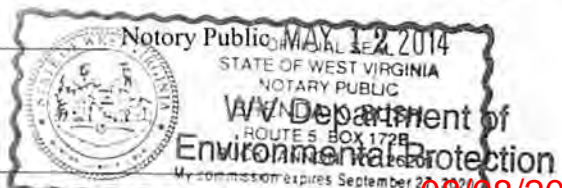
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 22nd day of April, 2014

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Office of Oil and Gas

Brenda K Bush



My commission expires September 27, 2020

08/08/2014

**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		Seed Type	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: Supa O'Hara 5-7-14

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

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Title: President

Date: April 1, 2014

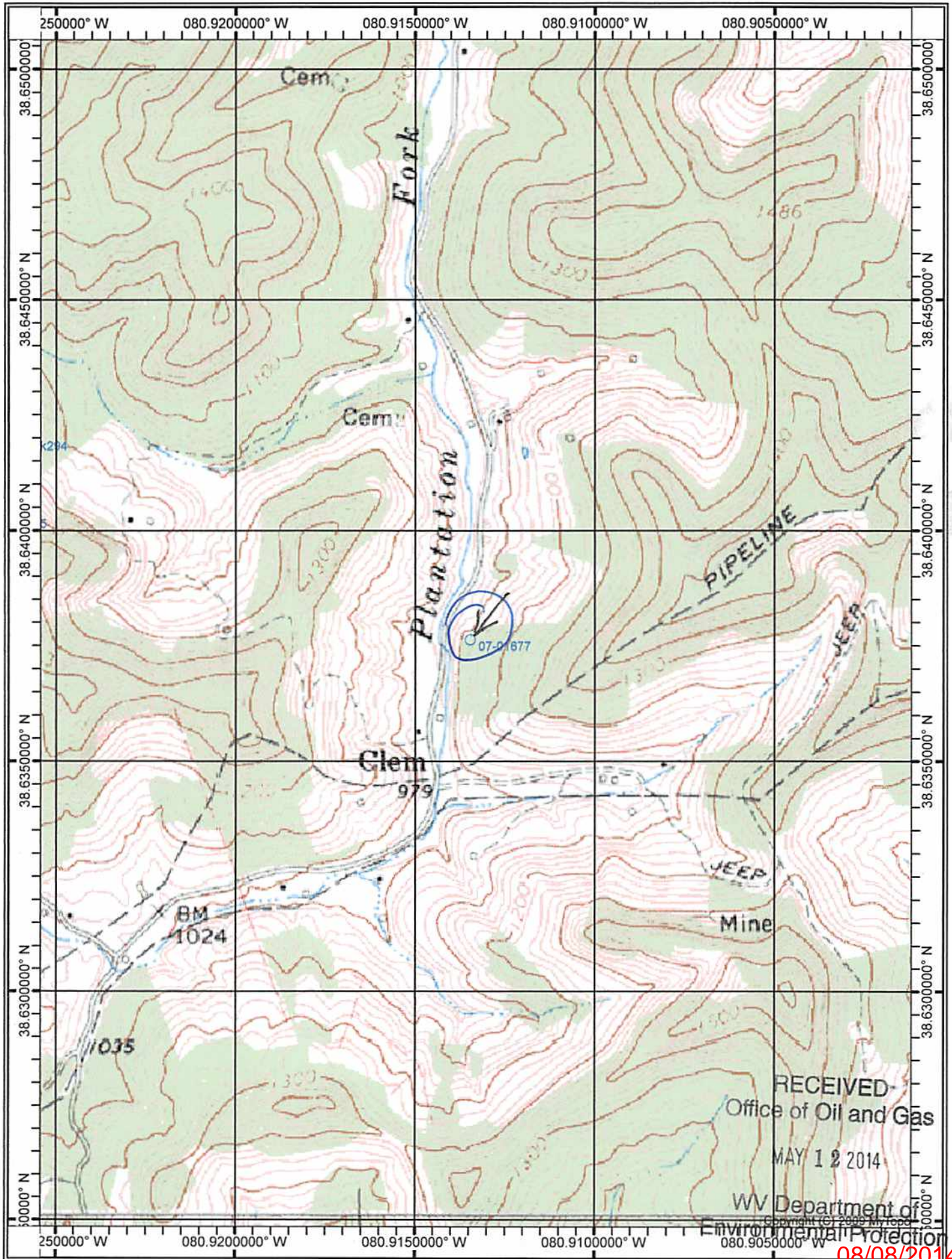
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Field Reviewed?  Yes  No

WV Department of Environmental Protection  
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701677P

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 4

QUADRANGLE: Burnsville 272

SURFACE OWNER: Herbert Hart

ROYALTY OWNER: Herbert Hart

UTM GPS NORTHING: ~~427657.3~~ 4276570.3

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

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Office of Oil and Gas

MAY 12 2014

WV Department of Environmental Protection  
Date

08/08/2014