west virginia department of environmental protection

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 penalities 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.

701677P

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.

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WW-4B
Rev. 2/01

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
Address Route 5 Box 29
Buckhannon, WV 26201

7) Designated Agent Mike Ross
Address PO Box 219
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

~~100~~ 250' - 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 permitted work can commence.

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Work order approved by inspector Bryan O'Harris Date 5-7-14

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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.
Farm H.Hart # 1 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. (Sks.)
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			

Attach copy of cementing record.

Well treatment details:
J-266 Gell 250 lbs. J-218 Gell breaker 99 lbs.
J-318 Gell breaker aid 20 gals. Yfpsd 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 reocrded 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	

BRAX. 1677

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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		

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Date September 17, 19 81

APPROVED

General Manager

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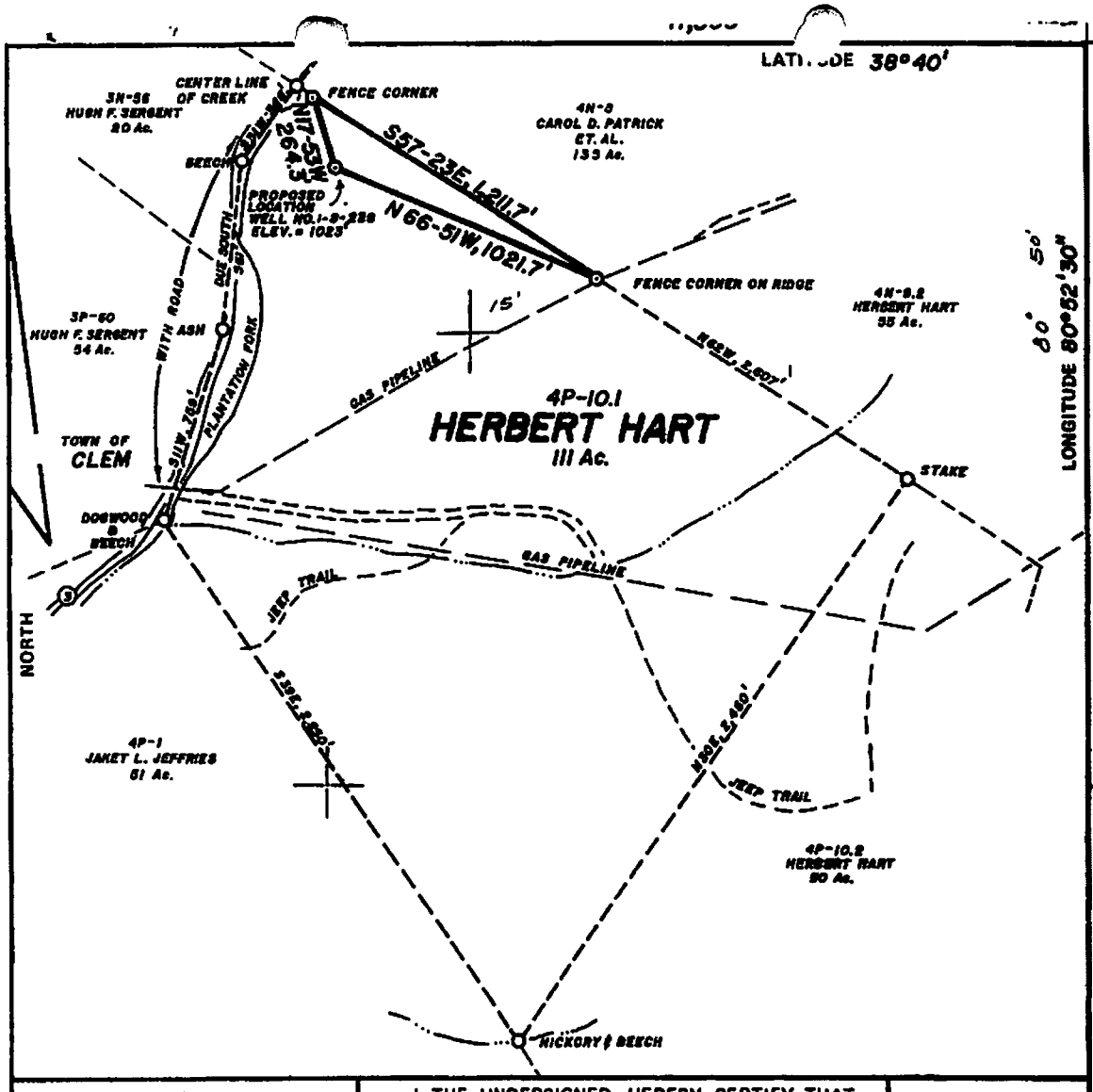

FILE NO. H.HART NO. 1
DRAWING NO.
SCALE 1" = 800'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION AT DESSIE. ELEV. = 915

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 Wilkie

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, 19 81
OPERATOR'S WELL NO. 1-S-236
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 7.5'
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 4070'
WELL OPERATOR STONESTREET LANDS CO. DESIGNATED AGENT O.V. STONESTREET
ADDRESS SPENCER, WV. ADDRESS SPENCER, WV.

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WV Department of Environmental Protection

H. T. HALL

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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 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Herbert Hart
Address: 1125 Cutlip Fork Road
Gassaway, WV 26624

(b) Name
Address

(c) Name
Address

6) Inspector: Bryan Harris
Address: PO Box 157
Volga, WV 26238
Telephone: 304-553-26238

5) (a) Coal Operator
Name: N/A
Address

(b) Coal Owner(s) with Declaration
Name: N/A
Address

Name
Address

(c) Coal Lessee with Declaration
Name: N/A
Address

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 (Mike Ross Inc.)
By: Mike Ross
Its: President
Address: PO Box 219
Coalton, WV 26257
Telephone: 304-472-4289

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
BRENDA K. BUSH
ROUTE 5 BOX 172B
BUCKHANNON, WV 26201
My commission expires September 27, 2020

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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WV Department of
Environmental Protection

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.

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

Mike Ross Inc.

7011 2000 0001 2588 0258

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OFFICIAL USE

Postage	$ 0.90	5/9/14
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	$ 6.90	

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Sent To
Street, Apt. No or PO Box No. Herbert Hart 1125 Cutlip Fork Road
City, State, ZIP Gassaway, WV 26624

PS Form 3800, August 2006 See Reverse for Instructions

WW-9
Rev. 5/08

701677 P

Page _____ of _____
API Number 47 - 007 - 01677
Operator's Well No. Hart, H. 1-S-236

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:

- X Land Application
- _____ Underground Injection (UIC Permit Number _____)
- _____ Reuse (at API Number _____)
- _____ Off Site Dispposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____

Proposed Work For Which Pit Will Be Used:

- _____ Drilling
- _____ Workover
- _____ Other (Explain _____
- _____ Swabbing
- X 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, 20 14

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Brenda K Bush
Notary Public

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
BRENDA K. BUSH
ROUTE 5 BOX 172B
[illegible]
My commission expires September 27, 2020

My commission expires September 27, 2020

7/01677P

Form WW-9

Operator's Well No. Hart, H. 1-S-236

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site
Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
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

Area I Seed Type	lbs/acre	Area II Seed Type	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: Bryan O'Hara 5-7-14

Comments: _____

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Title: President Date: April 1, 2014

Field Reviewed? ( ) Yes (X) No

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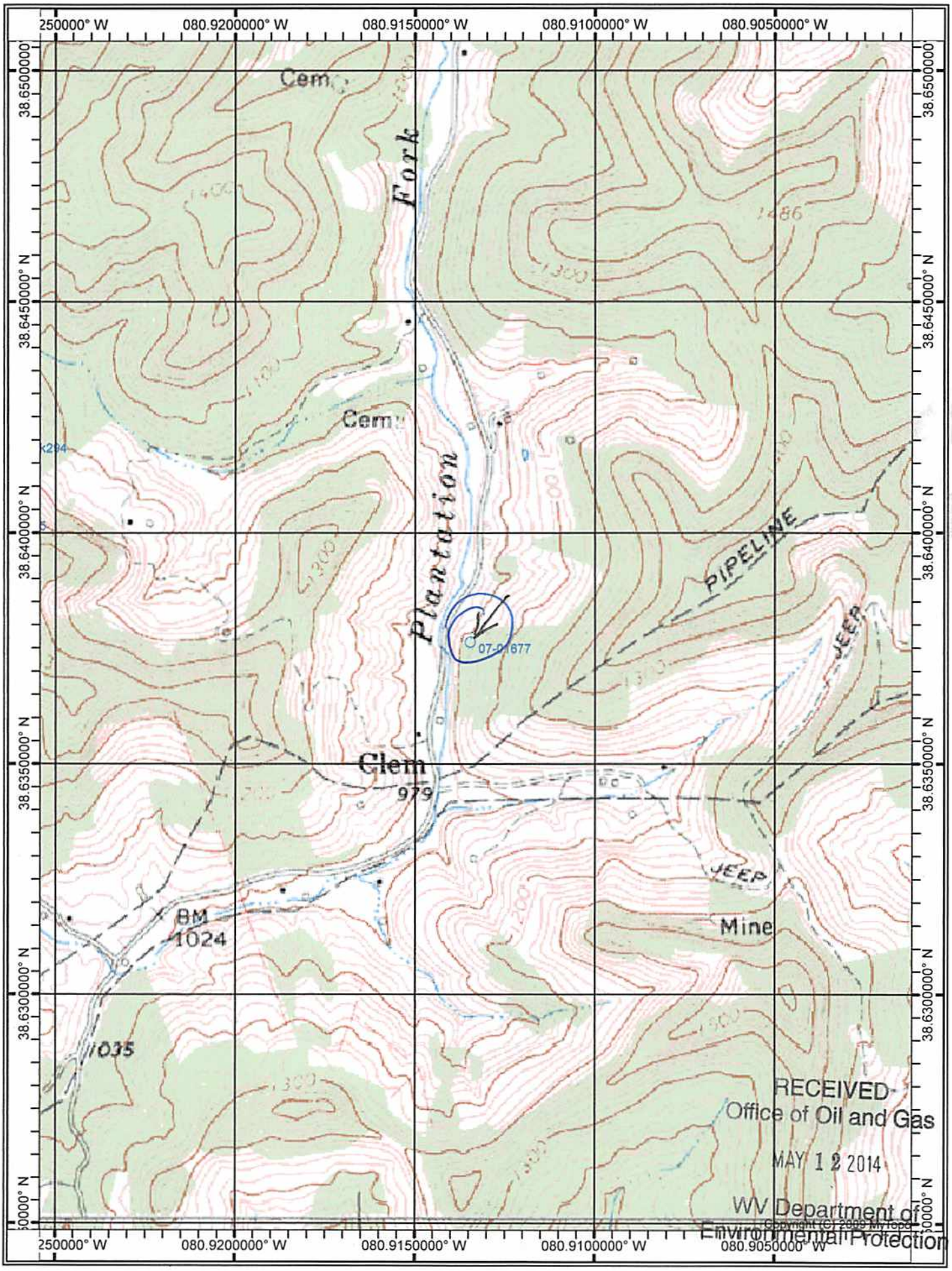

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WW-7
8-30-06

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

API: 47-007-01677 **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.

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Mike Ross — President — April 1, 2014

Signature — Title — Date