



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

January 27, 2014

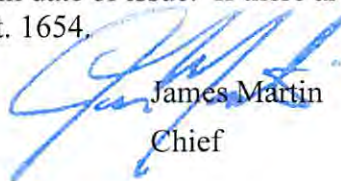
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701582, issued to GEOMET OPERATING COMPANY 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: ALAWEST-004
Farm Name: ALAWEST, INCORPORATED
API Well Number: 47-4701582
Permit Type: Plugging
Date Issued: 01/27/2014

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.

4701582P

WW-4B
Rev. 2/01

1) Date December 17th, 2013
2) Operator's
Well No. Alawest 004
3) API Well No. 47-047 - 01582C

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 ____
- 5) Location: Elevation 1644' Watershed _____
District Sandy River 6 County McDowell Quadrangle lager 406
- 6) Well Operator GeoMet Operating Co. Inc 7) Designated Agent Eric Vance
Address 5336 Stadium Trace Pkwy, Suite 206 Address 149 Fire Trail Drive
Birmingham, AL 35242 Daniels, WV 25832
- 8) Oil and Gas Inspector to be notified Name Gary Kennedy
Address PO Box 268
Nimitz WV, 25978
- 9) Plugging Contractor Name Universal Well Services
Address 5252 RT 1428
Allen, KY 41601

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

RIH W/ 2-7/8" Tubing at or near the bottom of the casing and below all Coal Seams
 An expanding cement will then be used to fill the well that consists of
 50/50 PozMix with 10% salt, 2% Gel. *6% Boutouk Gel plug Between Cement plugs.*
 A permanent marker will be installed after the well is filled, then the site will be
 reclaimed. *JKK*

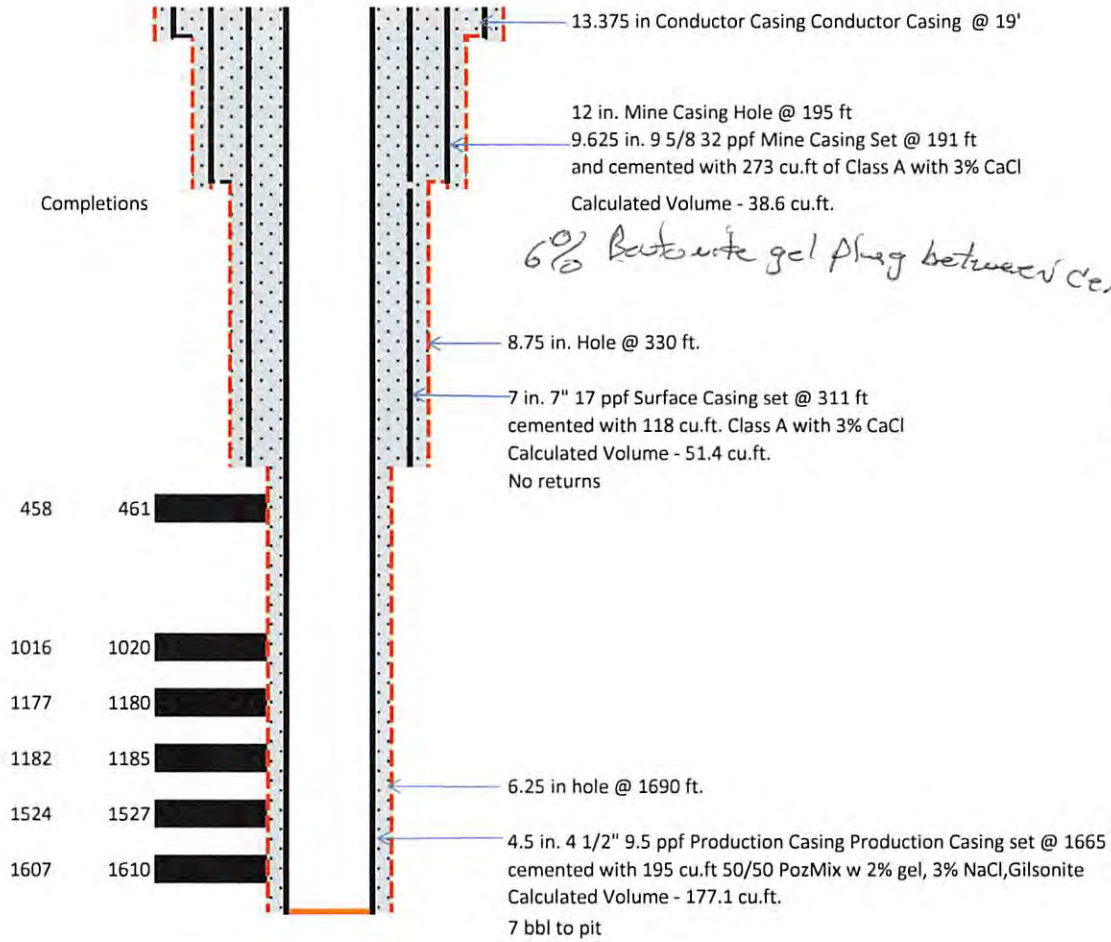
Note: All casings in well are cemented to surface, see attached well drawings.
 A current picture of the well location is also attached.

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

Work order approved by inspector *Gary Kennedy* Date 1/10/14

Alawest No. 004 Plug and Abandon Schematic

API# 4704701582



Handwritten signature

RECEIVED
 Office of Oil and Gas

JAN 13 2014

WV Department of
 Environmental Protection

4701582A

4701582P

WR-35
Rev (5-01)

E: February 26, 2002
A. #: 47-047-01582C

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

Well Operator's Report of Well Work

Farm name: Alawest Inc. Operator Well No.: Alawest 004

LOCATION: Elevation: 1644 Quadrangle: Jaegar

District: Sandy River County: McDowell
Latitude: 838 Feet North of 37 Deg. 27 Min. 30 Sec.
Longitude: 184 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: GeoMet Operating Company, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>5336 Stadium Trc Parkway, Suite 206 Birmingham, Alabama 35244</u>	<u>13-3/8"</u>	<u>19'</u>	<u>19'</u>	
Agent: <u>Gregg Cleary</u>	<u>9-5/8"</u>	<u>191'</u>	<u>191'</u>	<u>60/Pumped 240</u>
Inspector: <u>Ofie Helmick</u>				
Date Permit Issued: <u>11/05/01</u>	<u>7"</u>	<u>311'</u>	<u>311'</u>	<u>43/Pumped 162</u>
Date Well Work Commenced: <u>11/29/01</u>				
Date Well Work Completed: <u>01/0402</u>	<u>4-1/2"</u>	<u>1663'</u>	<u>1663'</u>	<u>170/Pumped 195</u>
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>1894</u>				
Fresh Water Depth (ft.): <u>Unknown</u>				
Salt Water Depth (ft.): <u>Unknown</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>458/494/794/1016/1177/1524/1584/1607</u>				

OPEN FLOW DATA

Producing formation All Zones Commingled 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 10 psig (surface pressure) after 696 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.

Signed: [Signature] 3-19-02
By: Gregg Cleary
Date: _____

[Handwritten mark]

API #: 47-047-01582C
Operator Well #: Alawest-004
Farm Name: Alawest Inc.

1.) Details of perforated intervals, fracturing or stimulating, physical change, etc.

1st Stage:

Perf Poca 1, 1607'-1610', Poca 2, 1584'- 1587', Pressured out before breakdown. Move to stage 2.

2nd Stage:

Perf Poca 3, 1524'-1527' & frac on 12/18/01 by Superior with 70Q Foam 30400# 16/30 Sand, 350000 SCF N2, 167 Total Bbbs Fluid. Breakdown Pressure 2925 PSIG, Average Pressure 3000 PSI, ISIP 2009 PSI

3rd Stage:

Perf Firecreek, 1182'-1185';1177'-1180' & frac on 12/18/01 by Superior with 70Q Foam 65000# 16/30 Sand, 385000 SCF N2, 250 Total Bbbs Fluid. Breakdown Pressure 1842 PSIG, Average Pressure 2128 PSI, ISIP 1323 PSI

4th Stage:

Perf Beckley, 1016'-1020' & frac on 12/18/01 by Superior with 70Q Foam 25000# 16/30 Sand, 210000 SCF N2, 190 Total Bbbs Fluid. Breakdown Pressure 3360 PSIG, Average Pressure 1890 PSI,

5th Stage:

Perf Un-named Coal 458'-461' & frac on 12/18/01 by Superior with 70Q Foam 30600# 16/30 Sand, 83000 SCF N2, 170 Total Bbbs Fluid. Breakdown Pressure 1652 PSIG, Average Pressure 690 PSI, ISIP 433 PSI

2.) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

0 - 146	Sandstone/Shale
146 - 153	Mine Void
153 - 311	Sandstone/Shale
311 - 377	Sandstone
377 - 444	Shale
444 - 616	Sandstone/Shale with coal bands
616 - 667	Shale
667 - 914	Sandstone with shale bands and thin coals
914 - 969	Shale
969 - 1104	Sandstone/Shale with coal bands
1104 - 1147	Sandstone
1147 - 1313	Sandstone/Shale with coal bands
1313 - 1347	Sandstone
1347 - 1415	Sandstone/Shale
1415 - TD	Sandstone/Shale with coal bands

RECEIVED

Office of Oil and Gas

JAN 18 2014

WV Department of
Environmental Protection

4701582P

WW-4A
Revised 6-07

1) Date: December 17, 2013
2) Operator's Well Number
Alawest 004

3) API Well No.: 47 - 047 - 01582C

**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>Alawest, Inc</u>	Name _____
Address <u>P.O. Box 920</u>	Address _____
<u>Welch, WV 24801</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Alawest, Inc</u>
_____	Address <u>P.O. Box 920</u>
_____	<u>Welch, WV 24801</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>Box 268</u>	Name <u>Caretta Minerals, LLC</u>
<u>Nimitz WV 25978</u>	Address <u>P.O. Box 309</u>
Telephone <u>304-382-8402</u>	<u>Prosperity, WV 25909</u>

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

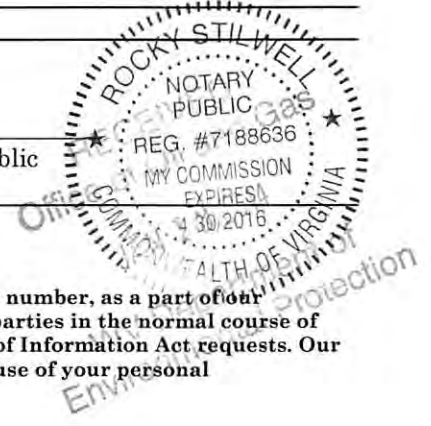
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 GeoMet Operating Company, Inc.
 By: Dallas Nestel Dallas Nestel
 Its: Project Manager
 Address 5336 Stadium Trace Pkwy, Suite 206
Birmingham, AL 35242
 Telephone 205-425-3855

Subscribed and sworn before me this 9th day of January 2014
Rocky Stilwell Notary Public
 My Commission Expires 4/30/2016



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.

47 01582P

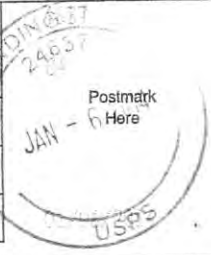
7012 2210 0002 5522 4414

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Total Postage & Fees	\$	1.85



Sent To Alawe st
 Street, Apt. No., or PO Box No. PO Blx 920
 City, State, ZIP+4 Wich W 24801

PS Form 3800, August 2006 See Reverse for Instructions

7012 2210 0002 5522 4421

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OFFICIAL USE

Postage	\$	1.25
Certified Fee		0.30
Return Receipt Fee (Endorsement Required)		0.30
Restricted Delivery Fee (Endorsement Required)		0.00
Total Postage & Fees	\$	1.85



Sent To Carotta Minerals LLC
 Street, Apt. No., or PO Box No. PO Blx 309
 City, State, ZIP+4 Prosperity W 25909

PS Form 3800, August 2006 See Reverse for Instructions

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 Office of Oil and Gas
 JAN 13 2014
 WV Department of
 Environmental Protection

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 GeoMet Operating Company, Inc. OP Code _____

Watershed _____ Quadrangle lager

Elevation 1644' County McDowell District Sandy River

Description of anticipated Pit Waste: Fresh Water, Cement

Will a synthetic liner be used in the pit? 85bbl Flowback tank *NO PIT*

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 Swabbing
 Workover Plugging
 Other (Explain _____)

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 Jeffery S. Cooper
Company Official (Typed Name) Jeffery S. Cooper
Company Official Title Production Manager

Subscribed and sworn before me this 9th day of January, 20 14

Rocky Stilwell Notary Public

My commission expires 4-30-2016



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 0.5 Prevegetation pH 5-6.5

Lime 2 Tons/acre or to correct to pH 6

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Hay/Straw Tons/acre

Seed Mixtures

Seed Type	Area I		Seed Type	Area II	
		lbs/acre			lbs/acre
Tall Fescue		40			
Alsike or White Dutch Clover		5			
Tonga Perennial Ryegrass		24			

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jeffery Kennedy*

Comments: _____

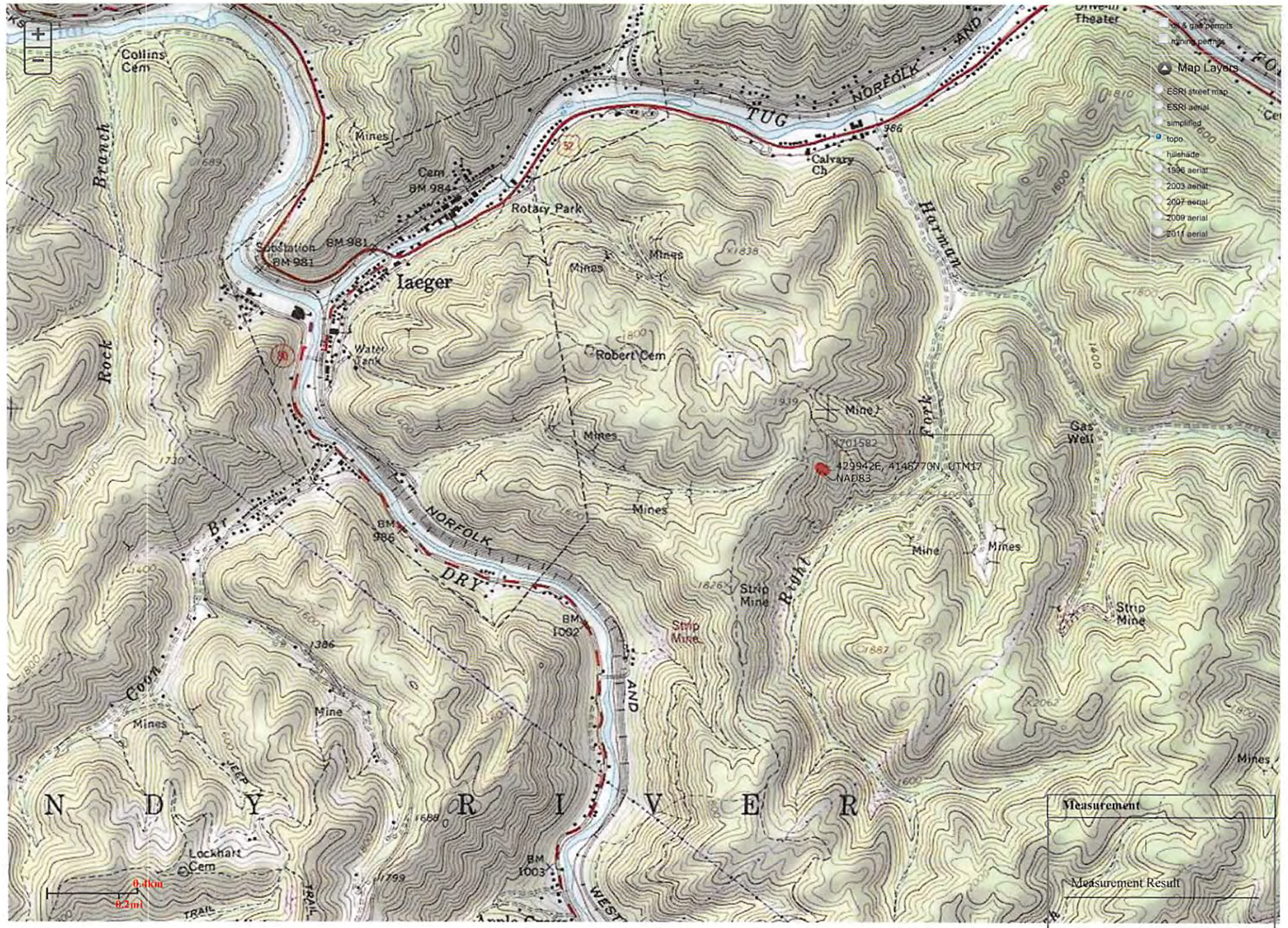
Title: Inspector

Date: 1/10/14

Field Reviewed? Yes No

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 Office of Oil and Gas
 JAN 13 2014
 WV Department of
 Environmental Protection

4701582P



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-047-01582C WELL NO.: Alawest 004

FARM NAME: Alawest 004

RESPONSIBLE PARTY NAME: GeoMet Operating Company, Inc.

COUNTY: McDowell DISTRICT: Sandy River

QUADRANGLE: laeger

SURFACE OWNER: Alawest Inc.

ROYALTY OWNER: Alawest Inc.

UTM GPS NORTHING: 4145769.82

UTM GPS EASTING: 429941.87 GPS ELEVATION: 501.33 M 1644.79 FT

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:

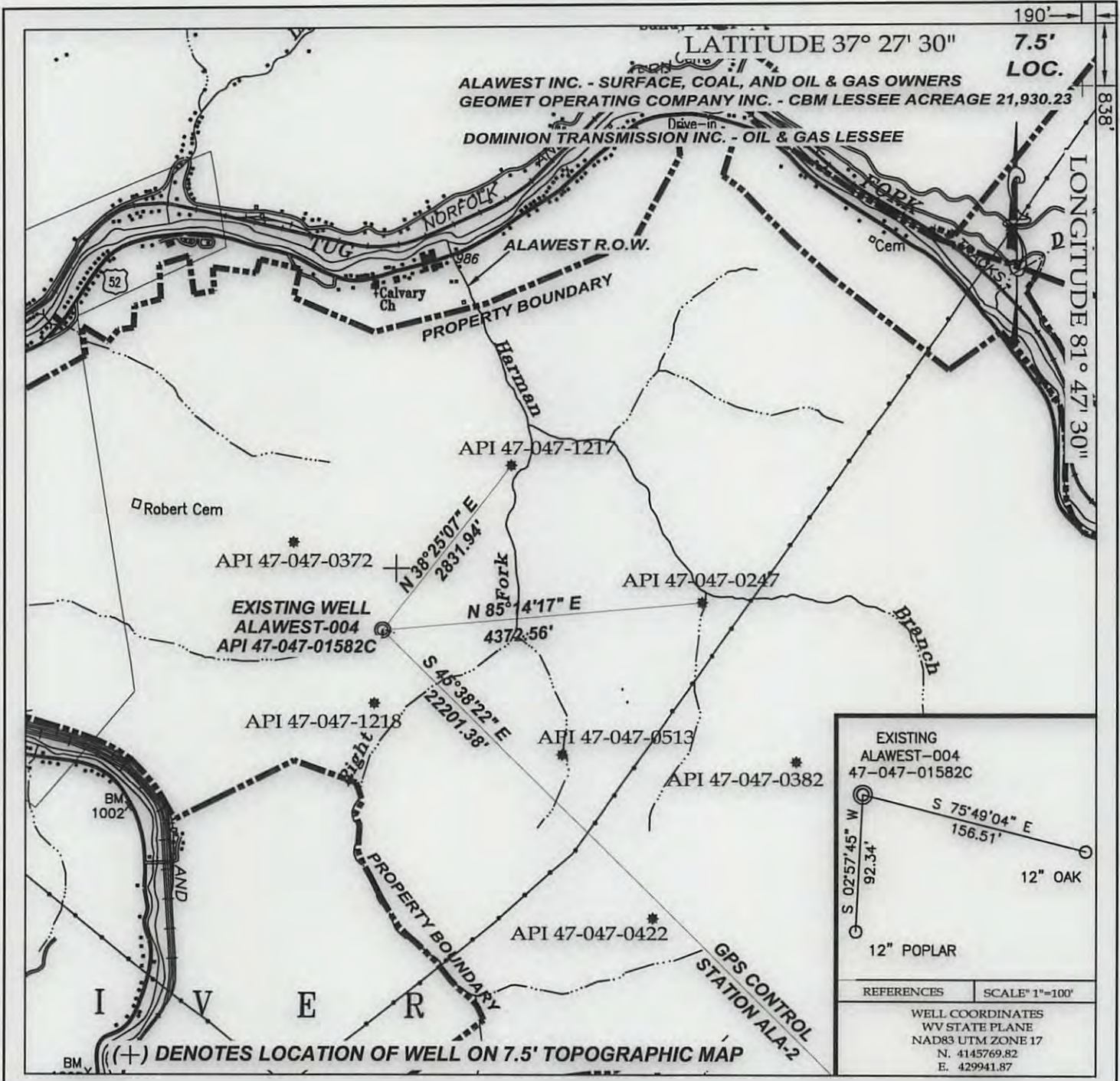
Survey grade GPS : Post Processed Differential _____
Real-Time Differential 1.5 cm

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.

<u><i>Robert Skye</i></u>	<u>Field Services Mgr</u>	<u>1-16-14</u>
Signature	Title	Date



EXISTING ALAWEST-004 47-047-01582C

S 02° 57' 45" W 92.34'
 S 75° 49' 04" E 156.51'

12" OAK
 12" POPLAR

REFERENCES	SCALE 1"=100'
------------	---------------

WELL COORDINATES WV STATE PLANE NAD83 UTM ZONE 17
 N. 4145769.82
 E. 429941.87

TEE Engineering Company, Inc.
 320 Cutters Hill Court
 Lexington, KY 40509
 (859) 263-5350
 Fax (859) 263-5345

GeoMet Operating Company, Inc.
 Well No. ALAWEST-004

FILE NO. 1899-00
 DRAWING NO. AW-004 PLAT
 SCALE: 1" = 2,000'
 MIN. DEGREE OF ACCURACY 1 : 2,500
 PROVEN SOURCE OF ELEVATION
 GPS STATION TEC-1 (ELEV. 2406.60)

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.

Don F. Blackburn
 (SIGNATURE)



R.P.E. _____ R.P.S. 1008

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

DATE DECEMBER 26, 2013
 OPERATOR'S WELL NO. ALAWEST 003 004

API WELL NO. 47 - 047 - 01582C
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS CBM _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____

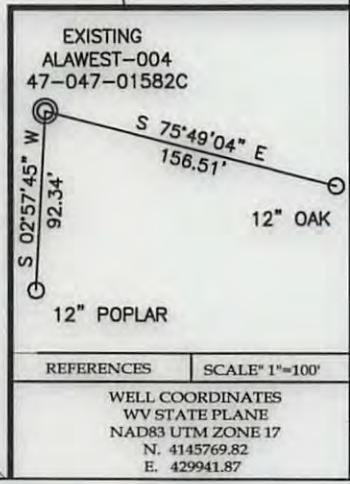
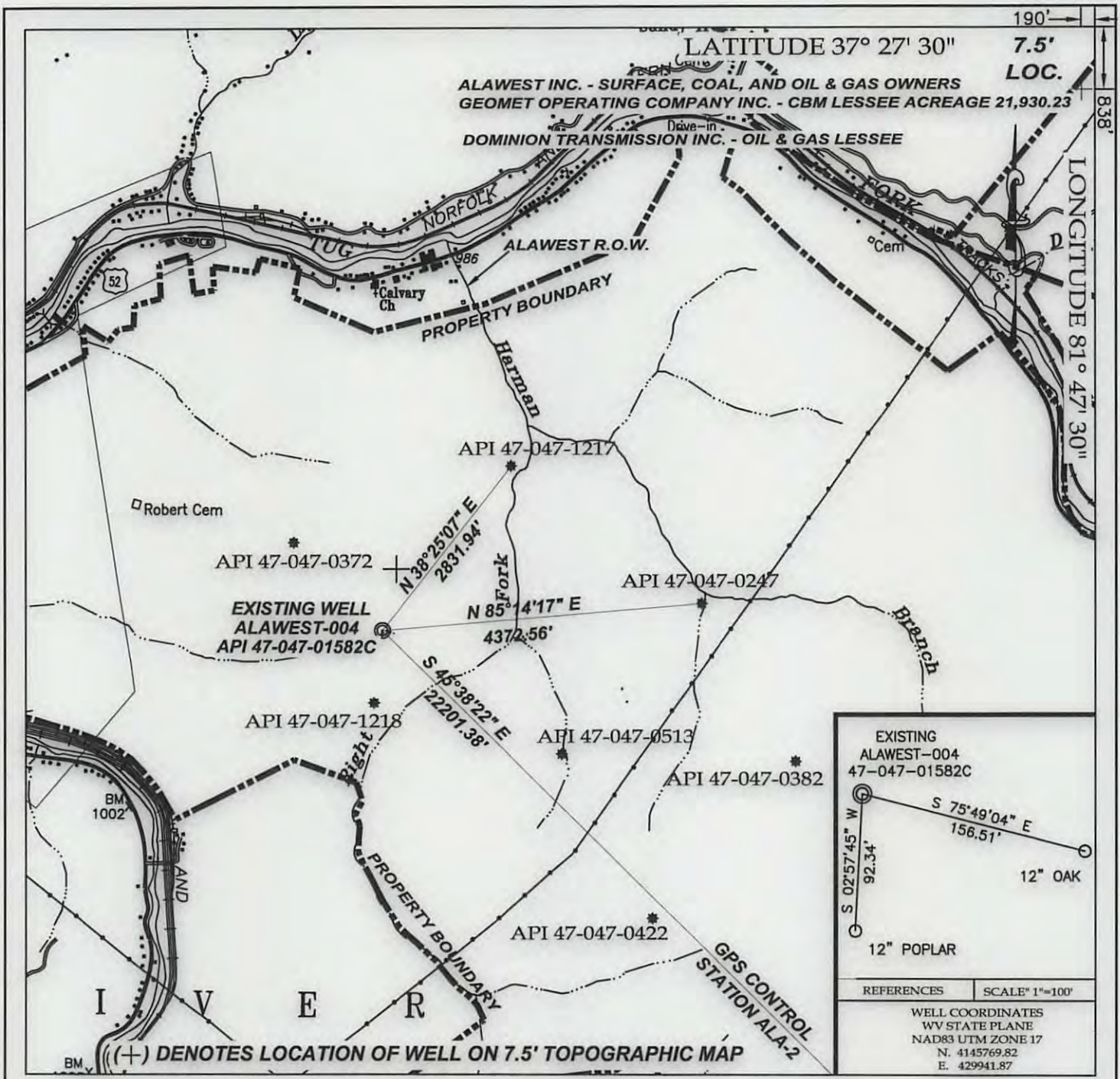
LOCATION: ELEVATION 1,644.79' NORTHING 4145769.82 EASTING 429941.87 ZONE 17 NAD83 UTM
 DISTRICT SANDY RIVER WATER SHED HARMAN BRANCH
 QUADRANGLE IAEGER COUNTY McDOWELL

SURFACE OWNER ALAWEST INC. ACREAGE 21,930.23
 CBM ROYALTY OWNER ALAWEST INC. LEASE ACREAGE 21,930.23
 LEASE NO. WV-103-0001-00

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PEFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG _____

TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 1,894'
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT CT CORPORATION SYSTEM
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 ADDRESS 707 VA. STREET EAST
BIRMINGHAM, ALABAMA 35244 CHARLESTON, WV 25301



TEE Engineering Company, Inc.

320 Cutters Hill Court
Lexington, KY 40509
(859) 263-5350
Fax (859) 263-5345



P.O. Box 219
Stanville, KY 41659
(606) 478-9024
Fax (606) 478-9019

GeoMet Operating Company, Inc.
Well No. ALAWEST-004

FILE NO. 1899-00
DRAWING NO. AW-004 PLAT
SCALE: 1" = 2,000'
MIN. DEGREE OF ACCURACY 1 : 2,500
PROVEN SOURCE OF ELEVATION
GPS STATION TEC-1 (ELEV. 2406.60)

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Don F. Blackburn
(SIGNATURE)

R.P.E. _____ R.P.S. 1008



STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE DECEMBER 26, 2013

OPERATOR'S WELL NO. ALAWEST 003-004

API WELL NO. 47 - 047 - 01582C P
STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS CBM _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____

LOCATION: ELEVATION 1,644.79' NORTHING 4145769.82 EASTING 429941.87 ZONE 17 NAD83 UTM
DISTRICT SANDY RIVER WATER SHED HARMAN BRANCH
QUADRANGLE IAEGER COUNTY McDOWELL

SURFACE OWNER ALAWEST INC. ACREAGE 21,930.23
CBM ROYALTY OWNER ALAWEST INC. LEASE ACREAGE 21,930.23

LEASE NO. WV-103-0001-00

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
STIMULATE _____ PLUG OFF OLD FORMATION _____ PEFORATE NEW
FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG _____

TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 1,894'

WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT CT CORPORATION SYSTEM

ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 ADDRESS 707 VA. STREET EAST
BIRMINGHAM, ALABAMA 35244 CHARLESTON, WV 25301

Alawest 004

