

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: 47-4701579, 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 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: ALAWEST-001

Farm Name: ALAWEST, INC.

API Well Number: 47-4701579

Permit Type: Plugging
Date Issued: 01/27/2014

Promoting a healthy environment.

WW-4B Rev. 2/01

5) Location: Elevation 1165

District Sandy River 6

1) Date December 17th		20 13
2) Operator's		
Well No. Alawest 001		
3) APT Well No. 47-047		- 01579C

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow____

Watershed Harman Branch

County McDowell Quadrangle lager 406

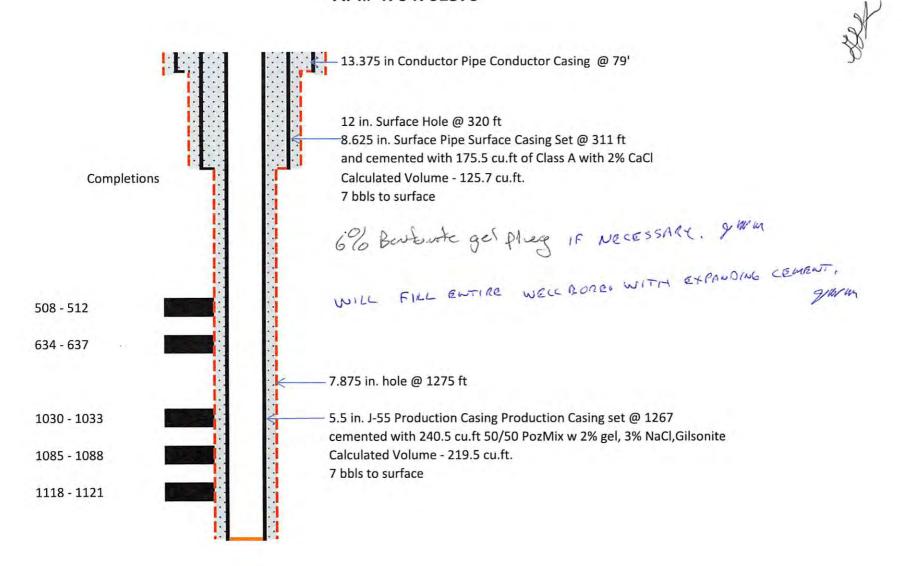
4) Well Type: Oil ____/ Gas $\frac{X}{}$ / Liquid injection ____/ Waste disposal ____/

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	9) Plugging Contractor Name Universal Well Services			
Address PO Box 268	Address 5252 RT 1428			
Nimitz WV, 25978	Allen, KY 41601			
0) Work Order: The work order for the mann	of the casing and below all Coal Seams			
An expanding cement will then be use 50/50 PozMix with 10% salt, 2% Gel. A permanent marker will be installed a reclaimed.				
An expanding cement will then be use 50/50 PozMix with 10% salt, 2% Gel. A permanent marker will be installed a reclaimed.	after the well is filled, then the site will be to surface, see attached well drawings.			
An expanding cement will then be use 50/50 PozMix with 10% salt, 2% Gel. A permanent marker will be installed a reclaimed. Note: All casings in well are cemented A current picture of the well location is	after the well is filled, then the site will be to surface, see attached well drawings.			
An expanding cement will then be use 50/50 PozMix with 10% salt, 2% Gel. A permanent marker will be installed a reclaimed. Note: All casings in well are cemented A current picture of the well location is CEMENT FROM BOTTOM TO TOP GEL SHOULD NOT BE NECESSALY)	after the well is filled, then the site will be to surface, see attached well drawings. also attached. RECEIVED Office of Oil and Gas JAN 137014			
An expanding cement will then be use 50/50 PozMix with 10% salt, 2% Gel. A permanent marker will be installed a reclaimed. Note: All casings in well are cemented A current picture of the well location is CEMENT FROM BOTTOM TO TOP GEL SHOULD NOT BE NECESSALY)	after the well is filled, then the site will be to surface, see attached well drawings. also attached. RECEIVED Office of Oil and Gas			

Alawest No. 001 Plug and Abandon Schematic

API# 4704701579



WR-35 Rev (5-01) Γ E: February 26, 2002 Ar. #: 47-047-01579C

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

Well Operator's Report of Well Work

Farm name: Alawest Inc.	Opera	ntor Well No.:	Alawest 001	
LOCATION: Elevation: 1166	Quad	rangle: <u>laega</u>	r	
District: Sandy River	Coun	ity: <u>McDowel</u>	I	
Latitude: 14475 Feet North of 37 Deg.		30 Sec.		
Longitude: 10551 Feet West of 81	Deg. <u>45</u> Mi	in. <u>30</u> Sec.		
Company: GeoMet Operating Co., Inc	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 5336 Stadium Trc Parkway, Suite 206	13-3/8"	79'	79'	
Birmingham, Alabama 35244				
Agent: Gregg Cleary	8-5/8"	311'	311'	128/Pumped 180
Inspector: Ofie Helmick				
Date Permit Issued: 11/05/01	5-1/2"	1267'	1267'	220/Pumped 234
Date Well Work Commenced: 11/21/01				
Date Well Work Completed: 12/18/01				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1275				
Fresh Water Depth (ft.): Unknown				
Salt Water Depth (ft.): Unknown				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): 389/512/638/765/769/807/835/883/925/1033/1089/1121		i,		
OPEN FLOW DATA				
Producing formation ALL ZONES COM	MINGLED F	Pay zone denth	((1)	
Gas: Initial open flowMCF/d Oil:				
Final open flow MCF/d F				
Time of open flow between initial and f				
			3	
Static rock Pressure 145 psig (surface pr	esisure) arter 2	riouis		
NOTE: ON BACK OF THIS FORM PUT INTERVALS, FRACTURING OR STIMULATION LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE	NG, PHYSICA GEOLOGICA	AL CHANGE, AL RECORD (ETC. 2). THE W OF ALL FORMA	VELL ATIONS,
	3-19-	ده:	C3540 C	ce of Oil and Gree
Signed:	3-19-02		Onic	
	3-17-02			INN 1 3 65.4
Date:				JMI' - 📚 .
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API#: 47-047-01579C

Operator Well #: Alawest-001 Farm Name: Alawest Inc.

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

1st Stage:

Perf Poca 1, 1118'-1121' & frac on 12/18/01 by Superior with 70Q Foam 22000# 16/30 Sand, 183000 SCF N2, 150 Total Bbls Fluid. Breakdown Pressure 3561 PSIG, Average Pressure 1900 PSI, ISIP 1520 PSI

2nd Stage:

Perf Poca 2, 1085'-1088' & frac on 12/18/01 by Superior with 70Q Foam 23000# 16/30 Sand, 228000 SCF N2, 190 Total Bbls Fluid. Breakdown Pressure 3950 PSIG, Average Pressure 2650 PSI, ISIP 1561 PSI

3rd Stage:

Perf Poca 3, 1030'-1033', Could not break down formation, skip & perf Stage 4.

4th Stage:

Perf Firecreek, 634'-637' & frac on 12/18/01 by Superior with 70Q Foam 42000# 16/30 Sand, 320000 SCF N2, 238 Total Bbls Fluid. Breakdown Pressure 2963 PSIG, Average Pressure 2800 PSI, ISIP 1050 PSI

5th Stage:

Perf Beckley, 508'-512' & frac on 12/18/01 by Superior with 70Q Foam 36000# 16/30 Sand, 137000 SCF N2, 179 Total Bbls Fluid. Breakdown Pressure 1800 PSIG, Average Pressure 1800 PSI, ISIP 500 PSI

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

0 - 303	Sandstone/Shale
303 - 350	Shale
350 - 410	Shaley Sandstone and coal bands
410 – 469	Shale
469 640	Shaley Sandstone and coal bands
640 – 694	Shale
694 – 730	Shaley Sandstone
730 – 796	Shaley Sandstone
796 – 912	Sandstone and thin coal
912 - 1010	Shaley Sandstone and thin coals
1010 - 1096	Sandy Shale and thin coals
1096 - 1125	Sandstone and thin coal
1125 1174	Shale
1174 - 1230	Sandstone
1230 - 1260	Shaley Sandstone

RECEIVED
Office of Oil and Gas

JAN 1825

ijMM Department of Engroome. (2) Protection

WW-4A Revised 6-07

1)	Date:	December 17,2013	
2)	Operator	's Well Number	
Alaw	rest 001		

3) API Well No.: 47 -

47 - 01579C

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

(a) Name Address P.O. Box 920 Welch, WV 24901 (b) Name Address P.O. Box 920 Welch, WV 24901 (c) Name Address Address Address Address P.O. Box 920 Welch, WV 24801 (c) Name Address Address Address Address Address Address Si) Inspector Address Box 288 Name Address Address Address Address F.O. Box 309 Prosperity, WV 25909 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 By: Value of the State of the State of the State of the Chief of th) (a) Coal Operato	or
(b) Name Address Name Alawest, Inc.				
(b) Name Address Name Address Po. Box 920 Weich, WV 24801 Name Address 3) Inspector Address Solution Solution Address Solution Gay Kennedy (c) Coal Lessee with Declaration Name Address Address Name Address Solution Address Solution Solution Address Name Caretta Minerals, LLC Address Po. Box 309 Prosperity, WV 25909 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 depleted form WW-6. Coperating the Application and 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 depleted form WW-6. Coperating Company, Inc. By: Well Operator By: Telephone 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 Env	Address	P.O. Box 920	Address	
Address Name Address P.O. Box 920 Welch, WV 24801 (c) Name Address Name Address 3) Inspector Gary Kennedy (c) Coal Lessee with Declaration Name Address Box 258 Namitz WV 25978 Address P.O. Box 309 Telephone 304-382-8402 Prosperity, WV 25909 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. Public Publ		Welch, WV 24801		
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Address Address				Welch, WV 24801
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Telephone Nimitz WV 25978 304-382-8402 PO. Box 309 Prosperity, WV 25909 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 described on the attached Form W-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 By: Well Operator				The state of the s
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Address 5336 Stadium Trace Pkwy, Suite 206 Birmingham, AL 35242 205-425-3855 Telephone 205-425-3855 Subscribed and sworn before me this 9 day of JANUARY 2014 Rocky Allvelo Notary Public JANUARY 4/30/2015				
Telephone				
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Oil and Gas Privacy Notice	Oil and Gas Priv	acy Notice		Departal Pringerion

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.

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) 4414 5522 Postage Certified Fee 2000 0122 Postmark Return Receipt Fee (Endorsement Required) - Here Restricted Delivery Fee (Endorsement Required) Total Postage & Fees \$ 7012 920 Street, Apt. No.; or PO Box No. City, State, ZIP+4 PS Form 3800, August 2006

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Office of Oil and Gas

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WV Department of Environmental Protection WW-9 Rev. 5/08

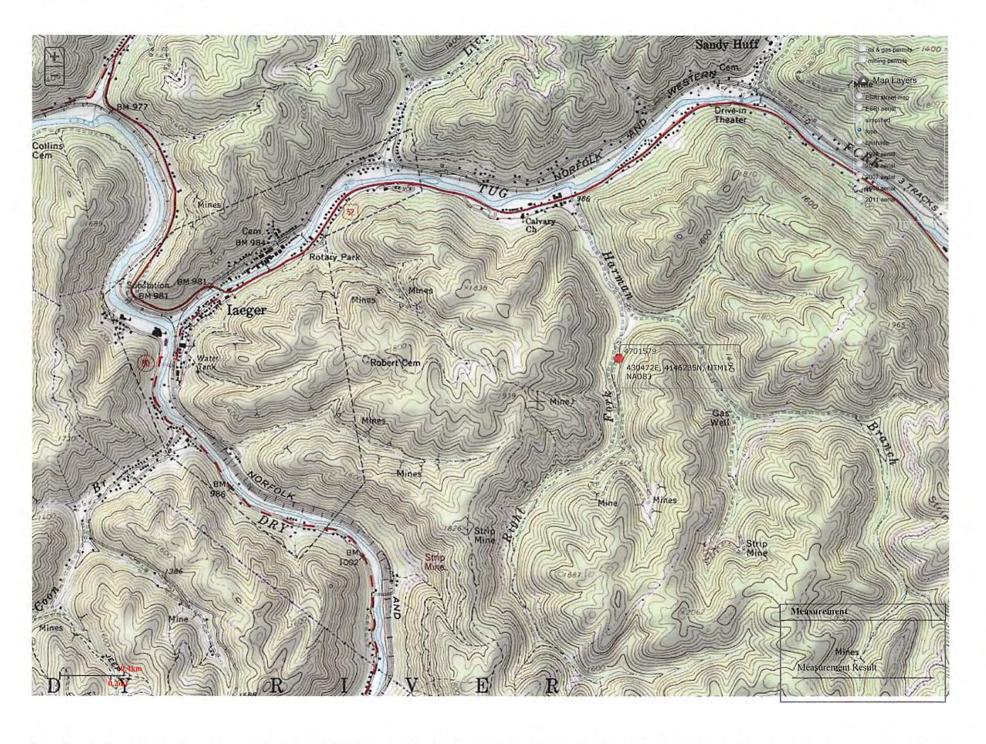
	Page 1		of 2	
API Number 47 -	047	-	01579C	
Operator's Well N	O. Alawest	001		

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 Op	OP Code			
Watershed Harman Branch	i	Quadrangle	lager	
Elevation 1165'	County McDowe	1	District Sandy F	River
Description of anticipated Pit	Waste: Fresh Water, Ceme	ent		
Will a synthetic liner be used	in the pit? 85bbl Flowback tank	Se		
Proposed Disposal Method Fo				
	nd Application			7
	derground Injection (UIC Permit	Number		
	use (at API Number Site Dispposal (Supply form WW	/ O for disposal	looption)	
	ner (Explain	v-9 for disposar	location)	
Proposed Work For Which Pi	t Will Be Used:			
	lling _	Swabb	_	
The state of the s	orkover X	Pluggi	ng	
Oth	ner (Explain			
application form and all atta obtaining the information, I benalties for submitting false Company Official Signature_ Company Official (Typed Na	Ity of law that I have personally achments thereto and that, based believe that the information is trainformation, including the possibil Jeffery S. Cooper roduction Manager	on my inquir ue, accurate, a	y of those individuals in a decomplete. I am awar aprisonment. PECOMICE OF TAXABLE CONTICE OF TAXABLE CONTI	nmediately responsible for that there are significant DEIVED Gas Foil and Gas
company Official Title			W	Department of Department Projection
Subscribed and sworn before	me this 9th day of	BANDARY	, 20 14 1TO	With the second
Kocky d	tilvell		Notory Public	NOTARY PUBLIC * REG. #718863 MY COMMISSIO EXPIRES 4/30/2016
My commission expires	4/30/2016			MY COMMISSION EXPIRES . 4/30/2016
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	LEGEND
Property Boundary	Diversion (COMMUNICATION OF THE PROPERTY OF TH
Road = = = = = = = = = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain
Rock 635 855	Artificial Filter Strip
North N	Pit: cut walls
Buildings Water wells	Pit: compacted fill walls Area for Land Application of Pit Waste
	Area for Land Application of Fit Wage
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 0.5	Prevegetation pH 5-6.5
Lime 2 Tons/acre or to correct to p	_н <u>6</u>
500	bs/acre (500 lbs minimum)
Hay/Straw	· · · · · · · · · · · · · · · · · · ·
Mulch Tons	s/acre
Se	eed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type 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 appropriate section of involved 7.5' topographic sheet.	
	- SEIVED OS
Plan Approved by: The Kurely	Office of Oil and Gas JAN 1 3 5014
Comments:	Unio-
	ment of
	NV Departion
Title: Tuspector Field Reviewed? (X) Yes (Date: 1/10/19 Environmental Protection
,	

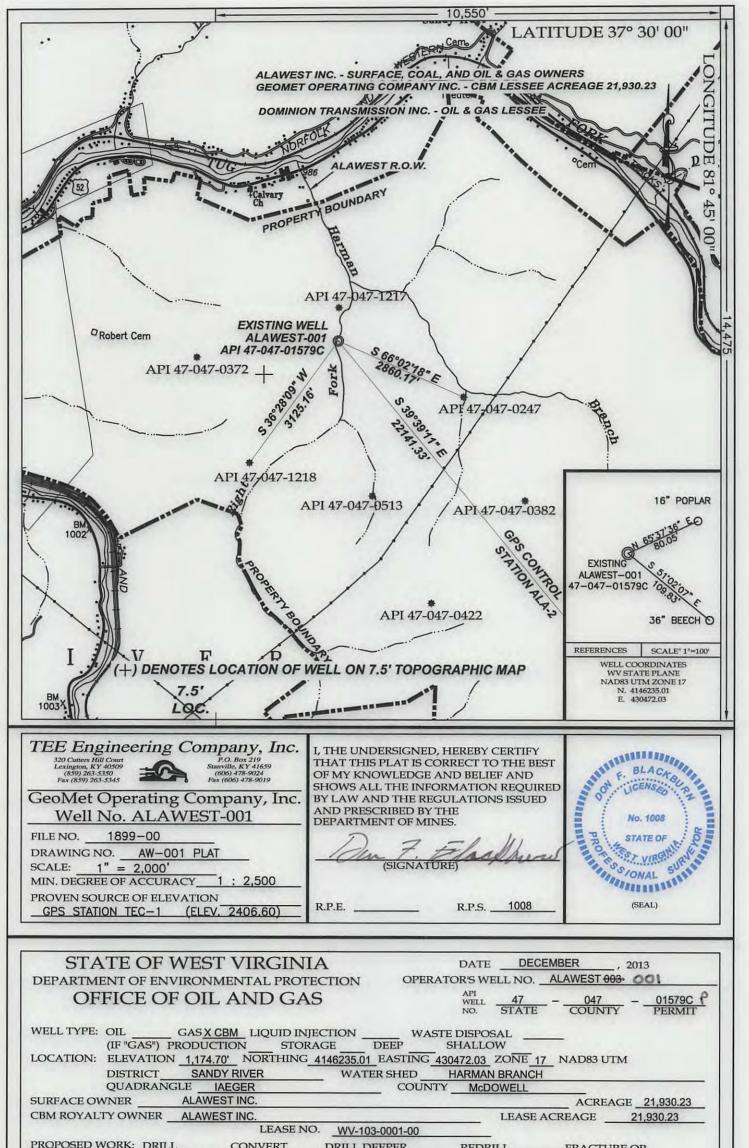


WW-7 8-30-06



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

_{API:} 47-047-01579C	WELL NO.:	Alawest 001	
FARM NAME: Alawest 00			
RESPONSIBLE PARTY NAME	: GeoMet Operating C	Company, Inc.	
	DISTRICT: Se		
QUADRANGLE: laeger			
SURFACE OWNER: Alawes	st Inc.		
ROYALTY OWNER: Alawe	st Inc.		-
UTM GPS NORTHING: 4146			
UTM GPS EASTING: 43047	2.03 GPS ELEVAT	CION: 358.04 M	1174.70
above well. The Office of Oil and Othe following requirements: 1. Datum: NAD 1983, Zon height above mean sea I 2. Accuracy to Datum – 3. 3. Data Collection Method Survey grade GPS × : Post P	ne: 17 North, Coordinate Units: m evel (MSL) – meters. 05 meters :		
	Time Differential 1.5 cm		
Mapping Grade GPS: Pos	et Processed Differential		
Rea	al-Time Differential		
4. Letter size copy of the a I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and	required by law and the regulation	knowledge and	
Halt They	Field Services Mgr	1-16-14	
Signature	Title	Date	



PLUG OFF OLD FORMATION
OTHER PLUGOT CONVERT FRACTURE OR STIMULATE PEFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG AND ABANDON CLEAN OUT AND REPLUG X TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH DESIGNATED AGENT WELL OPERATOR GEOMET OPERATING COMPANY, INC. CT CORPORATION SYSTEM ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 ADDRESS 707 VA. STREET EAST CHARLESTON, WV 25301 **BIRMINGHAM, ALABAMA 35244**

