



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 05, 2014

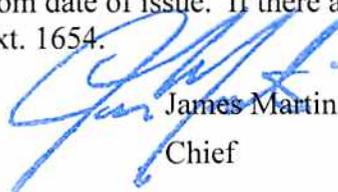
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701975, issued to CNX GAS COMPANY LLC , 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: 6781
Farm Name: ALAWEST, INC.
API Well Number: 47-4701975
Permit Type: Plugging
Date Issued: 08/05/2014

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

4701975P

WW-4B
Rev. 2/01

1) Date _____, 20_____
2) Operator's
Well No. 6781
3) API Well No. 47-047-01975

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 2345 ft. Watershed Mountain Fork
District Big Creek County McDowell Quadrangle Gary, WV

6) Well Operator CNX Gas Company LLC 7) Designated Agent Jeremy Jones
Address 627 Claypool Hill Mall Road Address One Dominion Drive
Cedar Bluff, VA 24609 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name L&D Well Services
Address PO Box 268 Address PO Box 1192
Nimitz, WV 25978 Vansant, VA 24656

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

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

Work order approved by inspector  Date 8/24/14

API 47-47-01975 Plugging Procedure

1. Verify total depth 5265'.
2. Run free-point survey on 4-1/2" casing. Drilling report states top of cement is 4900' per previous bond log.
3. Run tubing to TD. Set plug of expanding cement from established TD to approximately 50' below free point, utilizing a 100' gel spacer at approximately the half-way point of the wellbore, **BELOW 7" CASING POINT OF 1350'.**
4. Cut 4-1/2" casing at free-point.
5. Cement through 4-1/2" csg. while pulling 4-1/2", from top of bottom plug to approximately 100' below the 7" casing shoe. (Approx. 1450') Pull remaining 4-1/2" out of well.
6. Bond log 7" casing.
7. Run tubing to previous cement top (1450'). Cement across the 7" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 7" free-point or to surface, whichever is necessary.
8. If necessary, cut and pull free 7" casing. **7" IS PROBABLY CTS.**
9. Repeat bond log and cutting procedures for 9-5/8" if 7" is cut and pulled. **9 5/8" IS PROBABLY CTS**
10. Cement from 50' below 9-5/8" shoe to surface.
11. Install 7" X 4' steel monument with API# and Date.

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Office of Oil and Gas

MAY 30 2014

NOTE: A 100' gel spacer will be placed at approximately half the well depth. Also, Expanding cement will be utilized throughout the entire cementing process. WV Department of Environmental Protection

ENTIRE WELLBORE MUST BE FILLED WITH CEMENT OR GEL. IF 4900' OF 4 1/2" IS PULLED, A GEL SPACER WILL BE PLACED AT \approx 3000'.

4701975P

WR-35
Rev (5-01)

DATE: 07/11/2005
API #: 47 047 01975

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

Av 17

Well Operator's Report of Well Work

Farm name: Alawest, Inc. Operator Well No.: 6781

LOCATION: Elevation: 2345' Quadrangle: Gary 7.5'

District: Big Creek County: McDowell
Latitude: 9.525 Feet South of 37' Deg. 22 Min. 30 Sec.
Longitude 11.930 Feet West of 81 Deg. 35 Min. 00 Sec.

Company: Dominion Exploration & Production, Inc

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P O Box 1248 Jane Lew, WV 26378				
Agent: Rodney J. Biggs				
Inspector: Ralph Triplett				
Date Permit Issued: 10/04/2004				
Date Well Work Commenced: 05/09/2005	12 3/4"	22'	22'	Sand In
Date Well Work Completed: 05/26/2005				
Verbal Plugging N/A	9 5/8"	550'	550'	215 sks
Date Permission granted on: N/A				
Rotary X Cable Rig	7"	1350'	1350'	470 sks
Total Depth (feet): 5518'				
Fresh Water Depth (ft.): 340',550',1375'	4 1/2"	5265'	5265'	75 sks
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.):130-134', 440-443',650-651',800-801'				

OPEN FLOW DATA

Producing formation Berea Pay zone depth (ft) 5108-5118'
Gas: Initial open flow Show MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 133 MCF/d Final open flow N/A 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 480 psig (surface pressure) after 12 Hours

JK

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Second producing formation _____ 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 _____ psig (surface pressure) after _____ Hours

JUL 15 2005

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.

McDow

05/26/2005 BOND LOGGED, LTD 5255', TOC 4900'. PERFORATED BEREA FROM 5108' - 5118'
W/ 21 HOLES. RU AND FRAC - 75Q FOAM FRAC - 55,500 LB 20/40 SAND, 229 BBL FLUID,
507,100 SCF N2, BDP 2381#, ATP 2529#, AIR 25 BPM, ISIP 2160#. OPEN WELL ON 1/4" CHOKE

Fill	0	22
Sandy Shale	22	75
Sandstone	75	130
Coal	130	134
Sandy Shale	134	150
Sandstone	150	245
Sandy Shale	245	270
Sandstone	270	330
Sandy Shale	330	358
Sandy shale	358	440
Coal	440	443
Sandy Shale	443	500
Sandstone	500	650
Coal	650	651
Sandy Shale	651	800
Coal	800	801
Streaked Sandstone	801	1110
Sandy Shale	1110	1280
Open Mines	1280	1284
Sandy shale	1284	1374
Sandstone	1374	1420
Sandy Shale	1420	2030

GAMMA RAY / FORMATION TOPS					
DEPI # 6781		047-047-01975			
			<u>TOP</u>	<u>BASE</u>	
PRIDE SHALE			2060	2168	
RAVENCLIFF SAND			2180	2330	
AVIS LIME			2417	2466	
UPPER MAXTON			2876	3110	
LTD				3145	

[Handwritten signature]

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
6781
3) API Well No.: 47 - 047 - 01975

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	Alawest, Inc.	Name	none
Address	PO Box 920 Welch, WV 24801	Address	_____
(b) Name	_____	(b) Coal Owner(s) with Declaration	
Address	_____	Name	Alawest, Inc.
(c) Name	_____	Address	PO Box 920 Welch, WV 24801
Address	_____	Name	_____
	_____	Address	_____
6) Inspector	Gary Kennedy	(c) Coal Lessee with Declaration	
Address	PO Box 268 Nimitz, WV 25978	Name	Caretta Minerals LLC
Telephone	304-382-8402	Address	P.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 CNX Gas Company LLC
 By: [Signature]
 Its: Attorney-in-Fact
 Address 627 Claypool Hill Mall Road
 Cedar Bluff, VA 24609
 Telephone 276-596-5075

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Office of Oil and Gas
MAY 30 2014

Subscribed and sworn before me this 29th day of May 2014

My Commission Expires _____

Oil and Gas Privacy Notice

BEVERLY A. WEBB
 NOTARY PUBLIC
 Commonwealth of Virginia
 Reg. #7502381
 My Commission Expires June 30, 2015

WV Department of Environmental Protection

Notary Public

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 depprivacyofficer@wv.gov.

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: Ms. Kay Holtsclaw
 WVDEP Office Oil and Gas
 601 57th Street, SE
 Charleston, WV 25304

Street, or PO: _____
 City, St: _____

PS Form _____ Instructions

7689 0225 T000 0E92 2ETD2

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

Postmark Here

Sent To: Gary Kennedy
 P.O. Box 268
 Nimitz, WV 25978

Street, or PO: _____
 City, St: _____

PS Form _____ Instructions

0489 0225 T000 0E92 2ETD2

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6781

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

Postmark Here

Sent To: Caretta Minerals LLC
 P.O. Box 309
 Prosperity, WV 25909 ✓

Street, or PO: _____
 City, St: _____

PS Form _____ Instructions

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

Postmark Here

Sent To: Alawest, Inc.
 P.O. Box 920
 Welch, WV 24801 ✓

Street, or PO: _____
 City, St: _____

PS Form _____ Instructions

6589 0225 T000 0E92 2ETD2

RECEIVED
 Office of Oil and Gas
 MAY 30 2014
 WV Department of
 Environmental Protection

4701975 P

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 CNX Gas Company LLC OP Code 494458046

Watershed Mountain Fork Quadrangle Gary, WV

Elevation 2345 ft. County McDowell District Big Creek

Description of anticipated Pit Waste: water for plugging of abandoned gas well.

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0550319)
- 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 a pumper truck with flowback tank will be used in lieu of a pit. *[Signature]*)
- 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 *Ed Fanning*

Company Official (Typed Name) Ed Fanning

Company Official Title Supervisor Permitting

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Office of Oil and Gas

MAY 30 2014

Subscribed and sworn before me this 29th day of May, 2014

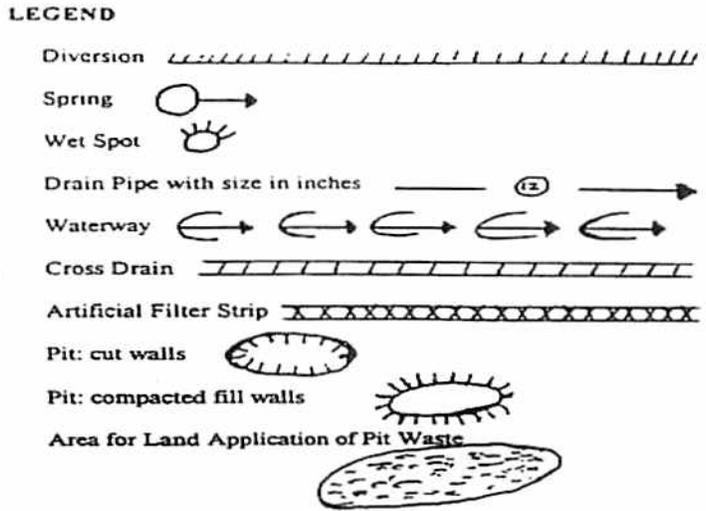
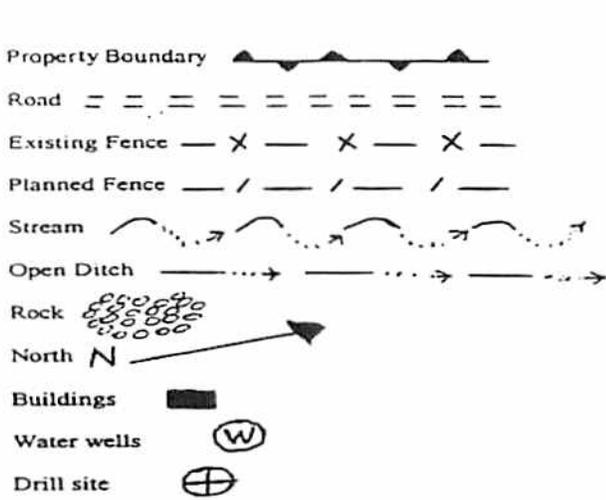
Department of
Environmental Protection

Beverly Webb

Notary Public

My commission expires _____

BEVERLY A. WEBB
NOTARY PUBLIC
Commonwealth of Virginia
Reg. #7502381
My Commission Expires June 30, 2015



Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 6.5

Lime based on pH Tons/acre or to correct to pH 7.0

Fertilizer (10-20-20 or equivalent) 550 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Area II lbs/acre
Orchard grass	25	same as Area I
Birdsfoot trefoil	15	
Lidino clover	10	

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

Photocopied section of involved 7.5' topographic sheet.

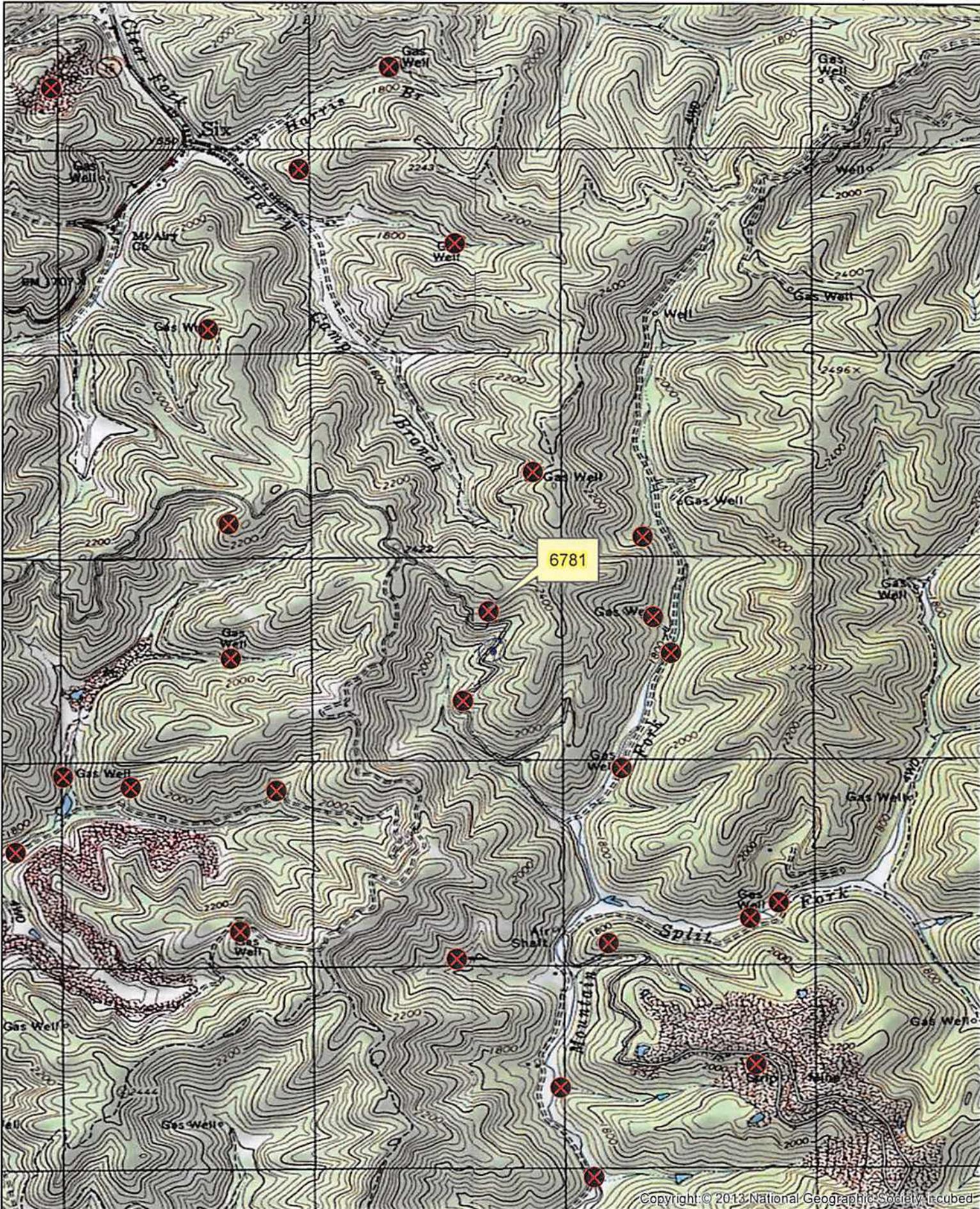
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MAY 30 2014

WV Department of
Environmental Protection

Plan Approved by: _____
Comments: _____

Title: Stacy Kennedy Date: 5/20/14
Field Reviewed? Yes No



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SKK



0 500 1,000 Feet

Date: 5/9/2014 Prepared By: KK
 Revisions: Approved By: BS

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CONSOL ENERGY

PROPOSED PLUGGING WELL NUMBER 6781
 API# 47-047-01975
 GENERAL LOCATION MAP

4701975P

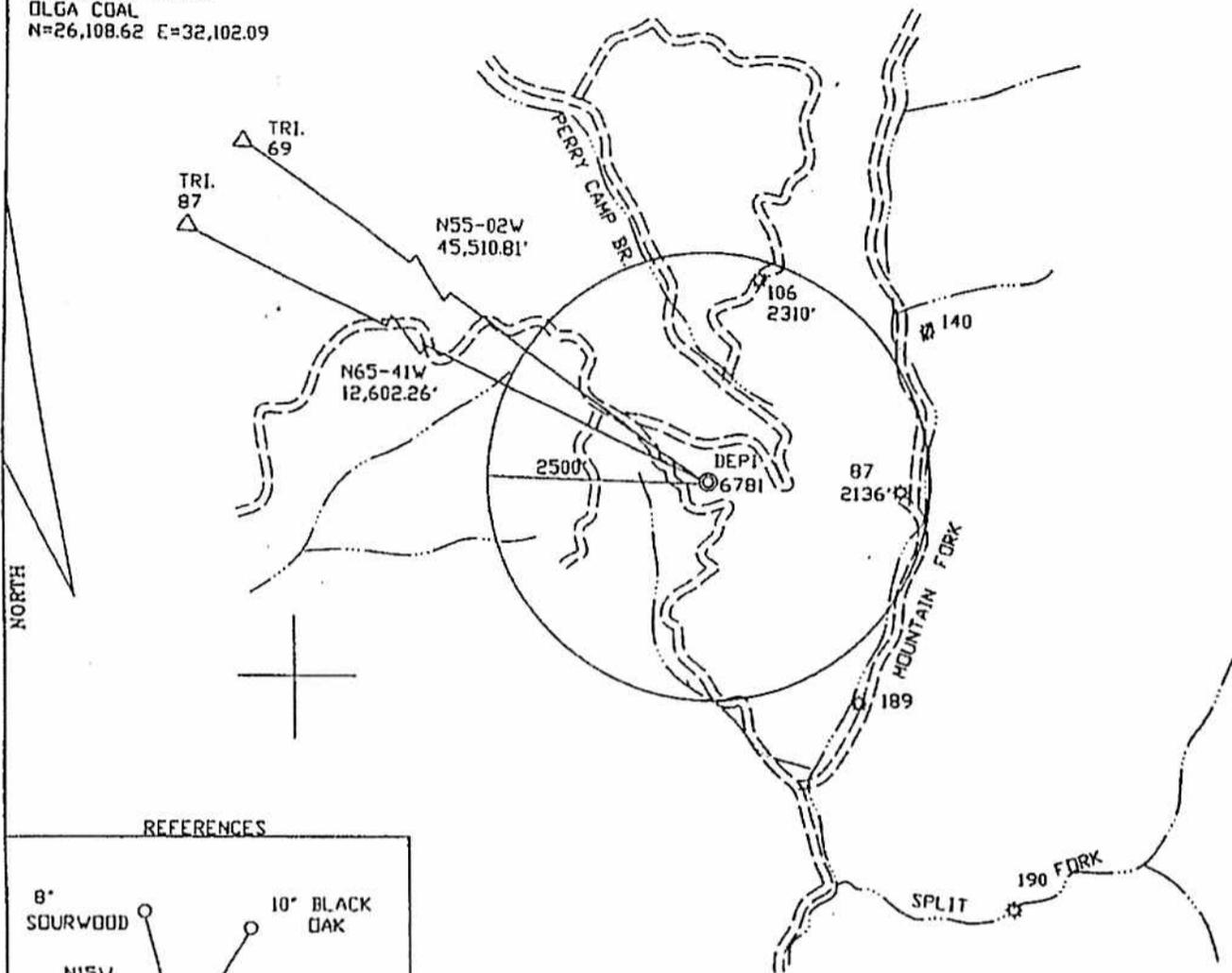
LATITUDE 37-22-30

DEPI 6781

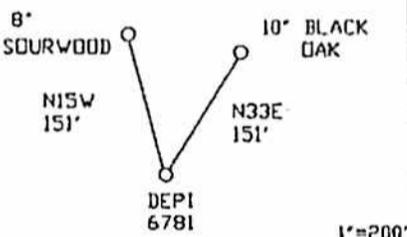
NAD 27 WV SOUTH SPC
N=127563.22 E=1818518.61
LAT. 37-20-55.11
LONG. 81-37-27.43
OLGA COAL
N=26,108.62 E=32,102.09

SCALED COORD.
11,930' W
9,525' S

LONGITUDE 81-35-00



REFERENCES



OK
CAF

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1/2500'
 PROVEN SOURCE OF ELEVATION DGPS SUBMETER

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) M. Allen Justice
 R.P.E. _____ L.L.S. 959



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV - 8 (8-78)



DATE JULY 17, 2004

OPERATOR'S WELL NO. DEPI 6781

47 STATE 47 COUNTY 01975 PERMIT

Division of Environmental Protection
Office of Oil & Gas

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

LOCATION: ELEVATION 2345' WATER SHED MOUNTAIN FORK
 DISTRICT BIG CREEK COUNTY McDOWELL
 QUADRANGLE GARY 7.5'

SURFACE OWNER ALAWEST, INC. ACREAGE 1917.55 TAX MAP
 OIL & GAS ROYALTY OWNER ALAWEST, INC. LEASE ACREAGE 1912.37

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 Gordon ESTIMATED DEPTH 5470'

WELL OPERATOR DOMINION EXPLORATION AND PRODUCTION, INC. DESIGNATED AGENT RODNEY J. BIGGS
 ADDRESS ONE DOMINION DRIVE PO BOX 1248 JANE LEW, WV 26378
 ADDRESS ONE DOMINION DRIVE PO BOX 1248 JANE LEW, WV 26378

McDOW 1975

47 01975P



Virginia Operations
627 Claypool Hill Road
Cedar Bluff, VA 24609

Bob Staton, MS, PG
Permitting Agent
Phone: 276-596-5137

Ms. Kay Holtsclaw
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304-2345

RE: 47-047-01729
47-047-00189
47-047-01975

Dear Ms. Holtsclaw;

Please find enclosed the plugging applications for the above referenced wells in McDowell County. Please let me know if you require any additional information.

Sincerely,

A handwritten signature in blue ink that reads 'Bob Staton'.

Bob Staton
Permitting Agent

enclosures

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Office of Oil and Gas
MAY 30 2014
WV Department of
Environmental Protection