



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 06, 2014

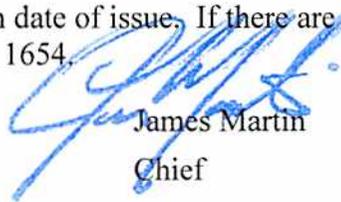
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3904894, issued to REED GAS 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: AL-37
Farm Name: APPALACHIAN LAND CO.
API Well Number: 47-3904894
Permit Type: Plugging
Date Issued: 08/06/2014

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.

1) Date 6/10/14, 20 14
2) Operator's
Well No. Al-37
3) API Well No. 47-39-4894P

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 ___ or Underground storage ___) Deep ___ / Shallow ___
- 5) Location: Elevation 1672' Watershed Middle Fork of Blue Creek
District Elk County Kanawha Quadrangle Mammoth
- 6) Well Operator Reed Gas, Inc. 7) Designated Agent James Reed
Address Virginia Street Address Virginia Street
Charleston WV. 25301 Charleston WV. 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name Duckworth Well Service
Address P.O. Box 1207 Address P.O. Box 6871
Clendenin WV. 25045 Charleston WV. 25362

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

- ~~Permanent Plug 2127'~~
- ~~Cement 2127' to 2027'~~
- ~~Cement 627' to 527'~~
- ~~Cement 100' to surface~~

See Plugging Diagram

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

Work order approved by inspector *[Signature]* Date 6-30-14

Received

JUL 11 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



172 Odessa Drive
Glen, WV 25088
(304) 548-7142

39-4894

Well Plugging Work Order

API #: 47-037-04894P
Operator: Reed Gas, Inc.
Well Name: AL-37

Cement 100' - 0'
627'
Cement 527'
27.7# F-55 8-5/8 @ 557ft

< Plug Top = 0ft
Cement Fill = 607ft
Fill Volume = 277 cu. ft

Cut & Remove 2077ft +/- 4-1/2" csg

Cement 2127'
2027'
TOC 4-1/2" @ 2077ft

< Plug Base = 607ft
6% Gel Fill = 1928ft
Fill Volume = 235 cu. ft

Parment Plug 2127'

< Plug Top = 2535ft

2585 -
Perf Interval

Cement Fill = 310ft
Fill Volume = 35 cu. ft

2795 -
11.6# J-55 4-1/2" csg @ 2903ft

< Plug Base = 2903ft

Pull tubing
will also
set elevator
plug
Arund Miller
6-30-14
6-30-14

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Office of Oil and Gas
WV Dept. of Environmental Protection

NR-35
 22 93
 Permitting
 Office of Oil & Gas

19-May-93
 API # 47- 39-04894

State of West Virginia
 Division of Environmental Protection
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: APPALACHIAN LAND CO. Operator Well No.: AL-37

LOCATION: Elevation: 1,672.00 Quadrangle: MAMMOTH

District: ELK County: KANAWHA
 Latitude: 3700 Feet South of 38 Deg. 20Min. Sec.
 Longitude 3800 Feet West of 81 Deg. 15 Min. Sec.

Company: REED PARTNERS
 P. O. BOX 480
 CLAY, WV 25043-0480

Agent: THOMAS H. REED

Inspector: CARLOS HIVELY
 Permit Issued: 04/19/93
 Well work Commenced: 5/25/93
 Well work Completed: 6/18/93
 Verbal Plugging
 Permission granted on:
 Rotary Cable _____ Rig
 Total Depth (feet) 2930'
 Fresh water depths (ft) 150'
 Salt water depths (ft) 1600'
 Is coal being mined in area (Y/N)?
 Coal Depths (ft): 450'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
24# 8 5/8"		557'	TO SURFACE
10.5# 4 1/2"		2903'	175 SKS
4.6# 2 3/8"		2788'	NA

OPEN FLOW DATA

Producing formation WEIR INJUN KEENER LIME Pay zone depth (ft) 2518-2795
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 225 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 6 Hours
 Static rock Pressure 470 psig (surface pressure) after 48 Hours

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

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.

Reviewed TMG
 Recorded _____

For: REED PARTNERS
 By: Steven W. Ecker
 Date: 7/20/93

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 JUL 1 2014
 Office of Oil and Gas
 WV Dept. of Environmental Protection

COMPLETION REPORT AL-37
REED PARTNERS
API NO. 47-039-04894
CNR NO. 22274 FI

I. GEOLOGICAL RECORD

SURFACE	0-15	FT.
SAND & SHALE	15-1450	FT.
ROSDALE SAND	1450-1476	FT.
SALT SAND & SHALE BREAKS	1476-1908	FT.
UPPER MAXTON	1908-1944	FT.
RED ROCK & GRAY SHALE	1944-2074	FT.
MIDDLE MAXTON	2074-2153	FT.
RED ROCK & GRAY SHALE	2153-2365	FT.
LITTLE LIME	2365-2408	FT.
PENCIL CAVE	2408-2445	FT.
BIG LIME	2445-2600	FT.
KEENER	2600-2616	FT.
RED McCRADY SHALE	2616-2630	FT.
INJUN	2630-2648	FT.
SHALE	2648-2672	FT.
UPPER WEIR	2672-2682	FT.
SHALE	2682-2763	FT.
LOWER WEIR	2763-2804	FT.
SHALE	2804-2930	FT.

II. PERFORATION AND STIMULATION

A. PERFORATION; A TOTAL OF 32 HOLES .39" IN DIAMETER WERE SHOT AS FOLLOWS

- (1) 12 HOLES FROM 2770 TO 2795 FEET IN THE WEIR
- (2) 10 HOLES FROM 2610 TO 2633 FEET IN THE KEENER AND INJUN
- (3) 10 HOLES FROM 2518 TO 2585 FEET IN THE BIG LIME

B. STIMULATION; THE WELL WAS FRACTURED IN THREE STAGES BY MEANS OF A 3.56" BAFFLE BETWEEN THE KEENER AND BIG LIME AND A 3 3/4" FRAC BALL, AND A 3.31" BAFFLE BETWEEN THE WEIR AND INJUN AND A 3 1/2" BALL USING 65 QUALITY FOAM. DETAILS ARE AS FOLLOWS:

- (1) BROKE DOWN THE FIRST STAGE (WEIR) WITH 500 GAL. OF 18% HCl AT A PRESSURE OF 1690 PSI WITH CASING FULL OF WATER PUMPED A 40 BBL PAD OF 65 QUALITY FOAM FOLLOWED BY 285 SKS OF 20/40 SAND IN 65 QUALITY AT AN AVERAGE FOAM RATE OF 16 BBL/MIN. ISIP OF 1420 PSI AND AN AVERAGE TREATING PRESSURE OF 2170 PSI. USED 265,087 SCF OF N₂. MAXIMUM SAND CONC. OF 2.5 #/GAL DOWN HOLE.

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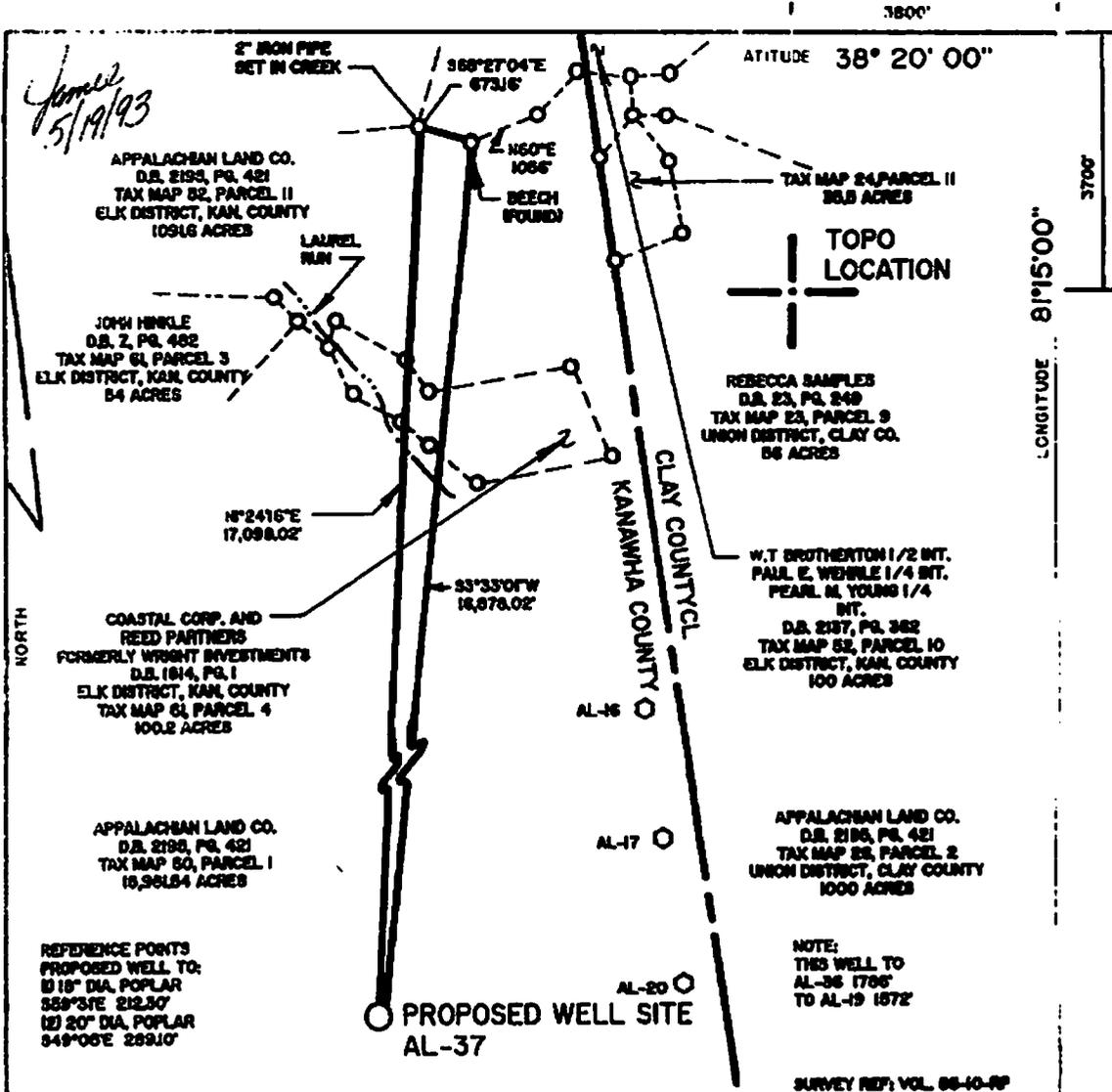
- (2) BROKE DOWN SECOND STAGE (INJUN & KEENER) WITH 500 GAL OF 15% HCl AT A PRESSURE OF 1760 PSI WITH CASING FULL OF WATER. PUMPED A 35 BBL PAD OF 65 QUALITY FOAM FOLLOWED BY 175 SKS OF 20/40 SAND IN 65 QUALITY FOAM AT AN AVERAGE FOAM RATE OF 14 BBL/MIN. ISIP OF 1290 PSI AND AN AVERAGE TREATING PRESSURE OF 2550 PSI. USED 202,533 SCF OF N2. MAXIMUM SAND CONC. OF 2 #/GAL DOWN HOLE.
- (3) BROKE DOWN THIRD STAGE (BIG LIME) WITH 500 GAL OF 15% HCl AT A PRESSURE OF 2130 PSI WITH CASING FULL OF WATER. FOAMED 2000 GAL OF 28% HCl WITH N2 USING 65 QUALITY FOAM AT A RATE OF 16 BBL/MIN. ISIP OF 1620 PSI. USED 95,090 SCF OF N2, AND AN AVERAGE TREATING PRESSURE OF 2190 PSI.

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16
Office of Oil and Gas
WV Dept. of Environmental Protection

KAN. 4894



FILE NO _____
 DRAWING NO _____
 SCALE $f = 2000'$
 MINIMUM DEGREE OF ACCURACY $1:10,000$
 PROVEN SOURCE OF ELEVATION B.M. ELEV. 1398
NEAR DELAUN KNOS

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) *Albert J. Miller*
 R P E _____ L L S ... 513 _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-A
 (8-78)



Department of Mines
 Oil & Gas Division

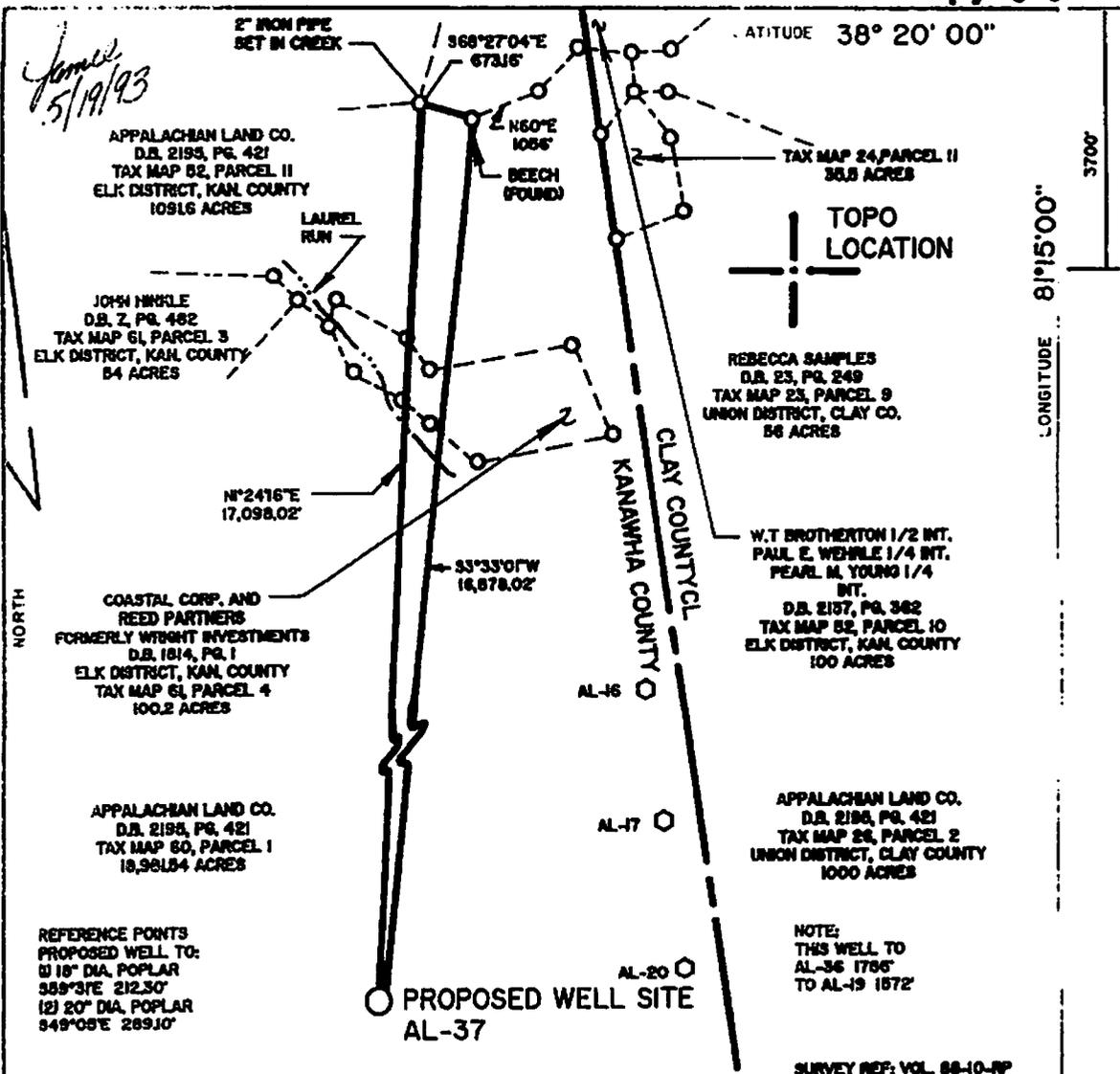
DATE MAY 1, 19 93
 OPERATOR'S WELL NO AL-37
 API WELL NO 47-039-4894
 STATE WV COUNTY CLAY PERMIT

WELL TYPE OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION ELEVATION 1672' WATER SHED LT. FK. OF POND FK. TO MIDDLE FK. TO BLUE CK. TO ELK RIVER
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE HANCOCK
 SURFACE OWNER APPALACHIAN LAND CO. ACREAGE 18.96154
 OIL & GAS ROYALTY OWNER APPALACHIAN LAND CO. LEASE ACREAGE _____
 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 HAN WIER ESTIMATED DEPTH 2200'
 WELL OPERATOR REED PARTNERS DESIGNATED AGENT JAMES W. REED, JR.
 ADDRESS 1806 KANAWHA BLVD. EAST ADDRESS 1806 KANAWHA BLVD. EAST
SUITE 201 CHARLESTON, WV 25301 SUITE 201 CHARLESTON, WV 25301

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 WV Dept. of Environmental Protection



FILE NO. _____ DRAWING NO. _____ SCALE $\Gamma = 2000'$ MINIMUM DEGREE OF ACCURACY $1:10,000$ PROVEN SOURCE OF ELEVATION <u>BM ELEV. 1395 NEAR BELLAH KNOB</u>	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) <u>Albert J. Miller</u> R.P.E. _____ L.L.S. 513	PLACE SEAL HERE
--	---	-----------------

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FORM IV-6 (8-78)	DATE <u>MAY 1</u> , 19 <u>93</u> OPERATOR'S WELL NO. <u>AL-37</u> API WELL NO. <u>47-039-4894</u> STATE COUNTY PERMIT
Department of Mines Oil & Gas Division	
WELL TYPE OIL ___ GAS <u>X</u> LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW <u>X</u>) LOCATION ELEVATION <u>1672'</u> WATER SHED LT. FK. OF POND FK. TO MIDDLE FK. TO BLUE CK. TO ELK RIVER DISTRICT <u>ELK</u> COUNTY <u>KANAWHA</u> QUADRANGLE <u>HANWORTH</u>	
SURFACE OWNER <u>APPALACHIAN LAND CO.</u> ACREAGE <u>10,991.84</u> OIL & GAS ROYALTY OWNER <u>APPALACHIAN LAND CO.</u> LEASE ACREAGE _____ LEASE NO. _____	
PROPOSED WORK DRILL <u>X</u> CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE <u>X</u> PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____	
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG _____ TARGET FORMATION <u>MAIN WIER</u> ESTIMATED DEPTH <u>2500'</u> WELL OPERATOR <u>REED PARTNERS</u> DESIGNATED AGENT <u>JAMES W. REED, JR.</u> ADDRESS <u>1206 KANAWHA BLVD. EAST SUITE 201 CHARLESTON, WV 25301</u> ADDRESS <u>1206 KANAWHA BLVD. EAST SUITE 201 CHARLESTON, WV 25301</u>	

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 W.V. Dept. of Environmental Protection

WW-4A
Revised 6-07

1) Date: 6/10/14
2) Operator's Well Number AL-37
3) API Well No.: 47 . 39 . 4894P

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>Appalachian Land</u>	Name _____
Address <u>Blue Eagle Land Co.</u>	Address _____
<u>700 Virginia</u>	
(b) Name <u>Charleston, WV 25302</u>	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name <u>Terry Urban</u>	Name _____
Address <u>P.O. Box 1207</u>	Address _____
<u>Clendenin WV. 25045</u>	
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name _____
	Address _____
Telephone _____	

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 and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-5.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

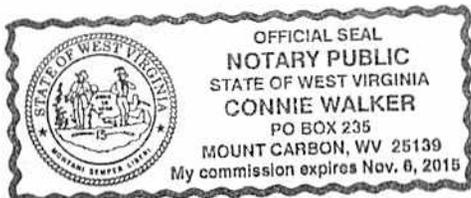
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Reed Gas Inc.
 By: James W Reed Jr
 Its: President
 Address Virginia Street
Charleston WV 25301
 Telephone 304-345-3817

Subscribed and sworn before me this 24th day of June, 2014
Connie Walker Notary Public
 My Commission Expires Nov 6, 2015

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 dep@privacy@dep.wv.gov.



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Certified Fee		\$3.30
Return Receipt Fee (Endorsement Required)		\$2.70
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$6.91



Sent To Blue Eagle hand care
 Street, Apt. No.,
 or PO Box No. 700 Virginia Ln
 City, State, ZIP+4 Charleston WV 25302

PS Form 3800, August 2005 See Reverse for Instructions

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 Office of Oil and Gas
 WV Dept. 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 Reed Gas Inc. OP Code _____

Waterhead Middle Fork of Blue Crs Madawg Mammoth

Elevation 1672' County Kanawha District Elk

Description of anticipated Pit Waste: _____

Will a synthetic liner be used in the pit? _____

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
- _____ Workover
- _____ Other (Explain _____)
- _____ Swabbing
- Mudding

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 fines or imprisonment.

Company Official Signature James W. Reed Jr.

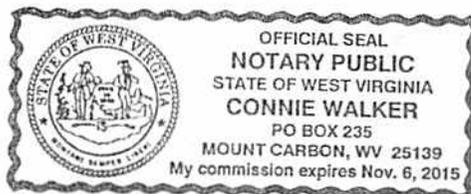
Company Official (Typed Name) James W. Reed Jr.

Company Official Title President

Subscribed and sworn before me this 24th day of June, 2014

Connie Walker Notary Public

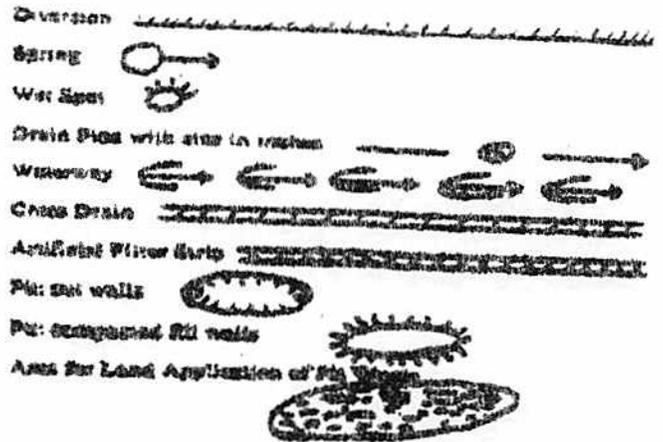
My commission expires Nov 6, 2015



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WV Dept. of Environmental Protection



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1 Revegetation pH _____

Lime 3 Tons/acre or to correct to pH _____

Fertilizer (10-30-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
<u>Contractors Mix</u>			

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

Photocopied section of involved 7.5' topographic sheet

Plan Approved by: [Signature]
 Considered: _____

Title: Inspector M & G Date: 6-30-14

Field Reviewed? Yes No

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 and Dept. of Environmental Protection



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

API: 47-39-4894 WELL NO.: 11-37
FARM NAME: Appalachian Land Co.
RESPONSIBLE PARTY NAME: James W. Reed Jr.
COUNTY: Kanawha DISTRICT: 1E11K
QUADRANGLE: Mammoth
SURFACE OWNER: Appalachian Land Co.
ROYALTY OWNER: Appalachian Land Co.
UTM GPS NORTHING: 4241716.9
UTM GPS EASTING: 477003.2 GPS ELEVATION: 1672

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.

Steve Hendricks Contractor
Signature Title

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