

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

May 19, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502647, 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 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: GOSHORN 11A

Farm Name: REED, JAMES W. JR., ETAL

API Well Number: 47-1502647

Permit Type: Plugging Date Issued: 05/19/2015

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.

+am'

7-4A vised 6-07	D Date: D Operator's Well Number Gosporn 11A
, and a second	3) API Well No.: 47 . 15 - 02647
DEPARTME	INT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OTICE OF APPLICATION TO PLUG AND ABANDON A WELL.
Surfece Owner(s) to be	m to Coal Course
	mes W Reed Strost Address
10.	he destar, WV 2570) (a) Coal Owner(s) with Declaration
(b) Name	(8) COLL OF LINE
Address	Name Address
/ 1 W	Name
Address	Address
(a) InspectorE	(c) Coal Lesses with Declaration
AddressP	-o: Box 831 Address
Telephone	Spencer WV 25496

to the persons	NAMED ABOVE: You should have received this Form and the following documents:
di). Who amplication	to Plus and Abandon a Well on Fren WW-4B, which sate out the parties involved to the work and describes the
(7) The whitment	plugging work orders and you's man, showing the well location an Form WW.4.
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The reside was received	at these dominants is that you have rights regarding the application which are summarized in the instructions on the reverse side.
The mason yes received flowers, yes one was not	drived to repe turk exact to ter
The passer, yes excelved allowers, yes one was not the under C	equined to high any action stati. Chapter The of the Wen Virginia Code, the underligand well operator proposes to file or has filed this Notice and Application and are four material to give and shanker a web with the Chief of the Office of Oil and Clas. West Visitials Commences of Environmental.
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CONNIE WALKER My Commission Expires

The Office of Oil and Gas processes your personal information, each as mum, address and pilots reflect, as a part of our regulatory divise. Your personal information may be disclosed to other State agrantee or third period the normal scarme of inches or as needed to comply with ristatory or regulatory requirements, including Precious of Information Act requests. Our office will appropriately scenar your personal information. If you have may questions about our use of your personal information, please consect OEP's Culef Privacy Officer as desprivacyofficerow.may.

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Office of Oil and Gas
WV Dept. of Environmental Protection

05/22/2015

WW-4B Rev. 2/01

1) Date 4-6-15	, 20
	rn 11A
3) API Well No. 47- 1	5 -02647

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

APPLICATION FOR A PE	RMIT TO PLUG AND ABANDON
l Type: Oil/ Gas X _/ Liqu. (If "Gas, Production or U	id injection/ Waste disposal/ nderground storage) Deep/ Shallow
ation: Elevation 1059'	Watershed Wade Fork
Address Virginia S	7)Designated Agenttreet Address
and Gas Inspector to be notified Name Eddie Gainer Address P.B. Box 821	9) Plugging Contractor Name <u>Duckworth WEll Service</u> Address P.O.Box 6871
2250' - 2050.1350' 1300' - 1200' 800' - 700' 100' - Surface	nner of plugging this well is as follows:
	Date CAPA APA Office of Oil and Gas Office of Oil and Oil
1	Type: Oil / Gas X / Lique (If "Gas, Production or the strict union or the strict union operator Reed Gas Address t3/4 Virginia S Charleston WV and Gas Inspector to be notified game Eddie Gainer ddress P.B. Box 821 Spencer WV 25276 Order: The work order for the mar 2250' - 2050.1350' 1300' - 1200' 800' - 700' 100' - Surface Onument with API numbers. ween all plugs!

65 WR - 35 Date: 03/28/03 Rev (5-01) 47-15-02647 State of West Virginia Department of Environmental Protection Office of Oil & Gas Well Opererators Report of Well Work Operators well name: Goshorn 11A Farm Name: Reed James W. Jr. Etal Operator # 41350 Location: Elevation 1259 Elkhurst Quadrangle: District Union County: Latitude: Feet South of 38 Deg 25 Min. 0 Sec. Longitude: 360 Feet West of 81 Deg 12 Min. 30 Sec. Company: Reed Gas Inc. Address: 1206 Kanawha Blvd. E.- Suite 201 Charleston, WV 25301 Agent: James W. Reed Jr. Casing & Used in Left in Inspector Carlos Hively Drilling Tubing Well Cement Fill up Cu Ft Date Permit Issued 11/13/01 13 3/8 35 FT Sks CU FT Date Well Work Commenced 01/13/01 FT 8 5/8 386 386 Sks 215 **CU FT** 155 Date Well Work Completed 4 1/2 05/03/02 2265 FT 240 Sks **CU FT** Verbal Plugging: 2 3/8 2105 FT NA Sks **CU FT** Date Permission Granted On FT Sks **CU FT** Rotary X Cable RIG Total Depth (feet): 2300 Fresh Water Depth: NA Salt Water Depth 560 Is coal being mined in area? Coal Depths OPEN FLOW DATA: **Producing Formation:** Weir Pay zone depth (ft) GAS: MCF/d Initial Open Flow: BbVd NA Oil: Initial Open Flow: Final Open Flow: 60 MCF/d Final Open Flow: Bbvg N Dept. 2083 vironmental Protection Time of open flow between initial and final tests Hours Static rock pressure: 264_PSI (surface pressure) after_ 48 Hours Second producing formation: **Big Lime** Pay zone depth (fl) GAS: Initial Open Flow: MCF/d OIL: Initial Open Flow: Final Open Flow: MCF/d Final Open Flow: Time of open flow between initial and final tests Hours RECEIVED Office of Oil & Gas Permitting Static rock pressure: PSI (surface pressure) after Hours APR 0 1 2003 NOTE: ON BACK OF THESE FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL WV Department of Environmental Protection LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGIC RECORD OF ALL FORMATIONS. INCLUDING COAL ENCOUNTERED BY THE WELLBORE. Signed:

1/3

05/22/2015

WR - 35 Rev (5-01) Date: _____

03/28/03 47-15-02647

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

Operators well name:

Goshom 11A

Farm Name:

Reed James W. Jr. Etal

Operator #

41350

Company:

Reed Gas Inc.

Address:

1206 Kanawha Blvd. E.- Suite 201

Charleston, WV 25301

GEOLOGICAL RECORD

Description:	Top	Bottom
Soil	0	30
Sand & Shale	30	959
Eagle Shale	959	968
Shale Break	968	1070
Salt Sands w/ intermittent Shale	1070	1695
Red Rock & Gray Shale	1695	1880
Little Lime	1880	1910
Pencil Cave	1910	1950
Big Lime	1950	2050
Sand & Shale	2050	2120
Upper Weir	2120	2146
Shale	2146	2300
	: -	

RECEIVED Office of Oil & Gas Permitting

APR 0 1 2003

WV Department of Environmental Protection

Received

APR 21 2015

Comment of and only

	Reed Brotners	Limited Parti	lership			
	Well Con	npletion Report				!
Well Name	Goshorn 11A		Date	03-May-02		
API#	47-015-22647-0000					
Stage 1]		-			
Formation	Weir Perfs	2123 - 2127		i		
Break down PSI	1720 Avg PSI	1762	SDP	1730		
Average Pump Rate:	16 BPM	Fluid System	75% Foam			
Total Sand	24,241 LBs	Fluid to Recover	231 BBIs			
Max Sand Conc.	3 Lbs/gal	Acid 15%	500 Gals	I		!
Nitrogen	231,777 SCF	Acid 28%	0 Gals			
Stage 2	.					<u> </u>
Formation	Big Lime Perfs	2044 - 2083				,
Break down PSI	1850 Avg PSI	3700	ISDP	1730		
Average Pump Rate:	18 BPM	Fluid System	65% Foam			
Total Sand	5,000 LBs	Fluid to Recover	100 BBIs			•
Max Sand Conc.	2.5 Lbs/gal	Acid	500 Gals			,
Nitrogen	214,354 SCF	Acid 28%	0 Gals	i		
Stage 3]					
Formation	NA Perfs		_			
Break down PSI	Avg PSI		_ISDP	RECEIV	/ED	1
Average Pump Rate:	ВРМ	Fluid System		Office of Oi Permitt	ing	
Total Sand	LBs	Fluid to Recover	BBls	APR 0 1	2003	
Max Sand Conc.	Lbs/gal	Acid	Gals			
Nitrogen	SCF	Acid 28%	0 Gals	W/ Depart Environmenta	i Destaction I	!
Stage 4	.				5/1.50/2	
Formation	NA Perfs		<u> </u>	-acr	ا ف	
Break down PSI	Avg PSI		_ISDP	- Prince	2015	
Average Pump Rate:	ВРМ	Fluid System	·		J / 5012	
Total Sand	LBs	Fluid to Recover	BBIs	YS 1		
Max Sand Conc.	Lbs/gal	Acid	Gals		* Oil Bug Gaa	icc _{ijo}
Nitrogen	SCF	Acid 28%	0 Gals	Cit	ce of Oil and Cas	
Total Sand	29,241 LBs	Total Fluid		331 BBLs		!
Total Nitrogen	446,131 SCF	Total Acid		1000 Gals	2647	
	Reed Brothers	Limited Partr	nership		05/22	 2/2(

STATE OF WEST VIDGENIA SENT OF SEVENDINGENTAL PROTECTION OFFICE OF OULAND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE RECESTRATION APPLICATION FORM GENERAL PERMIT FOR GIL AND GAS MT WASTE DESCHARGE

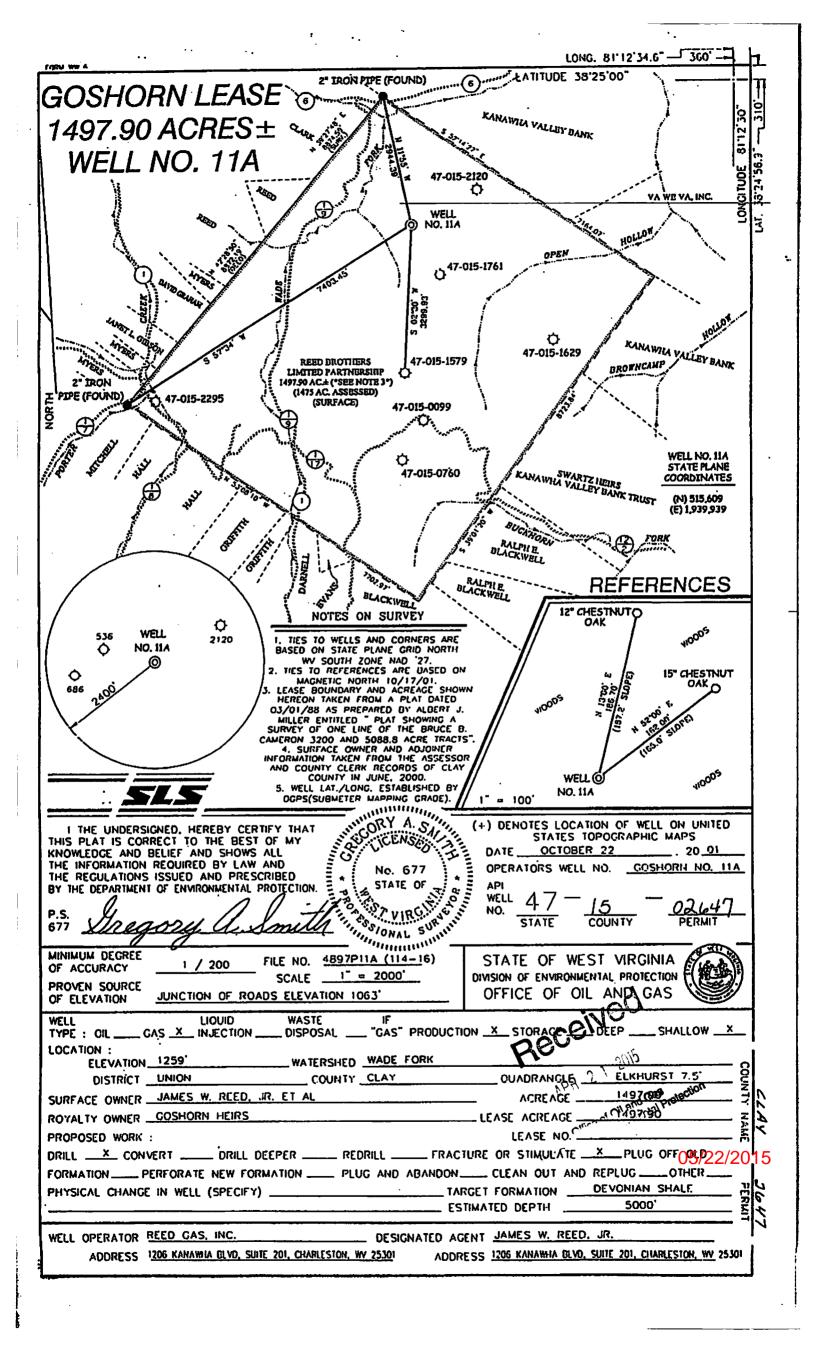
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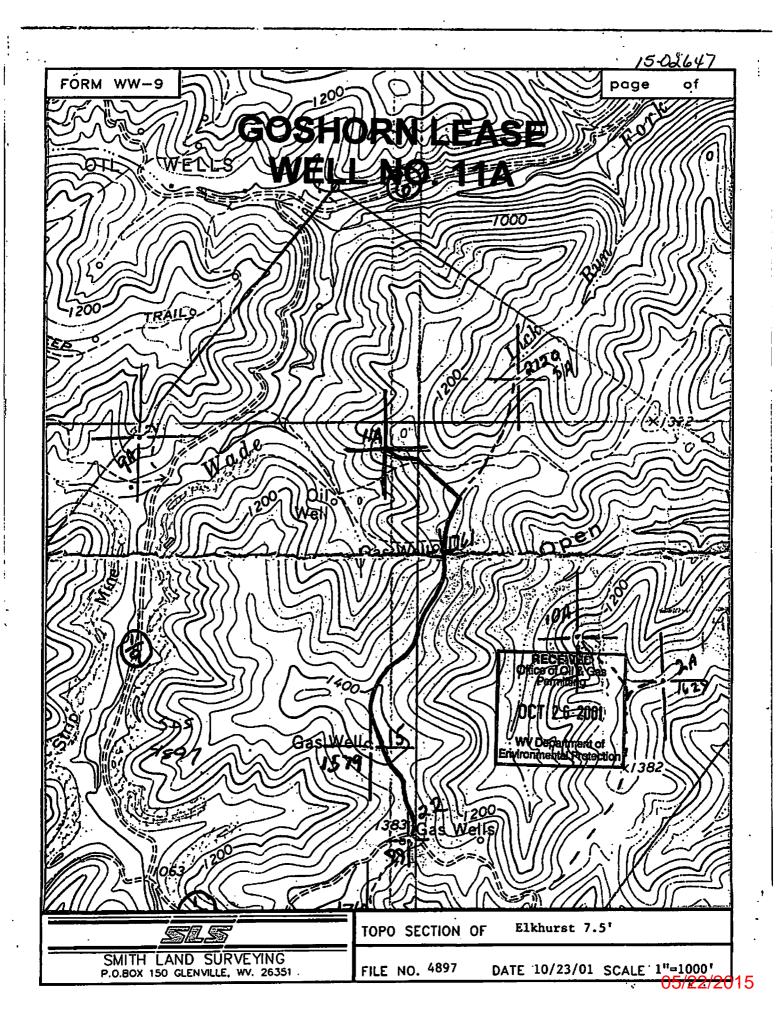
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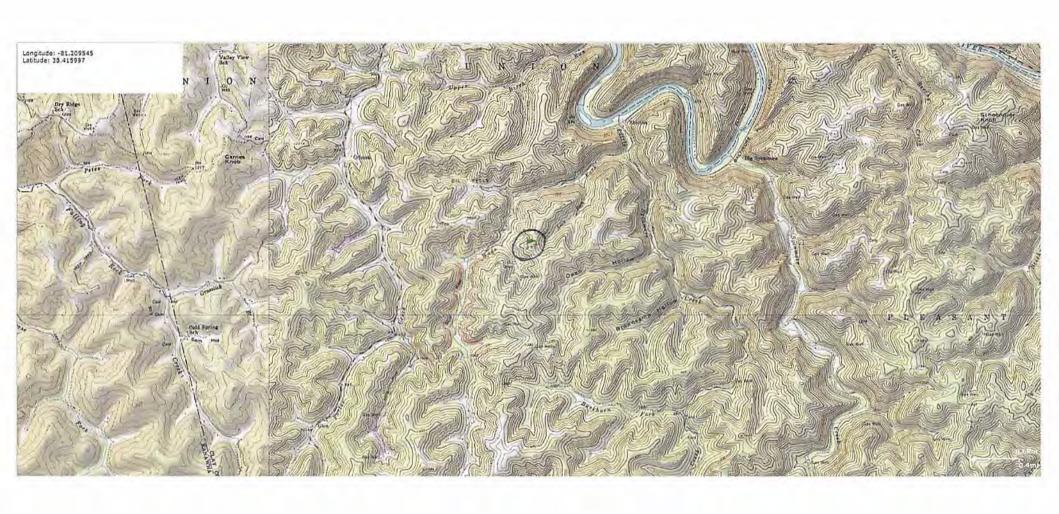
Office of Oil and Gas Protection
Office of Oil and Gas Protection

West with Per composed ES table Ann Ser Land Application of the state of the stat	e.	Operacy's Well No.
Postilizar (10-20-20 er equivalent) SOO New Arres (500 libs minimum) Misleis Tens/agre Sand Mirosres Sand Type New II Sood Type New Arres II Construct construct and proposed area for land application. Excepted receion of involved 7.5' topographie about.	Entering Parities — X — X — X — X — X — X — X — X — X —	Cross Grate Antifering Comments of the commen
Soul Type Desired Property	Pertilier (10-20-20 er equivalent) <u>\$0.0</u> ite	Vacre (500 lies minimum)
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Office of Oil and Gas Office of Oil and Gas Protection









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

API: 47-15-02647 WELL NO .: 1/A
FARMNAME: Goshorne
RESPONSIBLE PARTYNAME: Charles Reed Gas Inc.
COUNTY: Clay DISTRICT: UNION
QUADRANGLE: EIK LUNST
SURFACE OWNER: Reed Brothers
ROYALTYOWNER: Reed Brothers
UTM GPS NORTHING: 4251982
UTM GPS EASTING: 48/7/4 GPS ELEVATION: 1259'
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: 1. 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
Real-Time Differential ROUS
Mapping Grane Gr 5
4. Letter size copy of the topography map showing the well location, of Oil and Professional Professional 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. At the Regulation of Oil and Gas.
Signature Tike Date