

### 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

December 11, 2013

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-9500656, issued to GASTAR EXPLORATION USA, 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: M.W. SPENCER NO. 14

Farm Name: SPENCER, ALVA D. .. ESTATE

API Well Number: 47-9500656

Permit Type: Plugging
Date Issued: 12/11/2013

## **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. 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.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

Permit

WW-4B Rev. 2/01

State

County

## 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 X Gas (If "Gas", Production	X Liquid Inje Undergrou	ection nd Storage	Waste Disposal ) Deep	Shallow X
5) LOCATION:	Elevation: 1010' District: McElroy	Watershed County:	Indian Creek Tyler &5	Quadrang	gle Shirley 7.5' 601
6) WELL OPERAT Address	OR: Gastar Exploration, Ltd. 229 W. Main St., Suite 3 Clarksburg, WV 26301	301	7) DESIGNATED	Address 229	e McCown W. Main St., Suite 301 ksburg, WV 26301
8) OIL & GAS INS Name Address	PECTOR TO BE NOTIFIED Joe Taylor 497 Claylick Road Ripley, WV 25271		9) PLUGGING C Name Address	ONTRACTOR	
10) WORK ORDER: <u>CASING</u> 6" 1,911' 5" 976' <u>LINERS</u>	The work order for the mann TD-2,104'  Gel Plug No. 1 Pull 5" Casin Freepoint, Cu Plug No. 2 Plug No. 3 Plug No. 4	Coal: NA  2104 - 2000 2000 - 1860	nt 1,020' (Est.)	ELEU. 1010	
OF CLASS A C	of any cas Fill Well Bore	O MORE TITI	ngs present. Place 1 all Cement Plugs	Receive	at bottom  On Solid and Gas  Tonmental Protection
	oefore permitted work can coved by Inspector	commence.		Most	10-25-17

### **WELL RECORD**

Gastar Exploration, Ltd. Operator:

229 West Main Street Clarksburg, WV 26301 (304) 622-4796

Well: M.W. Spencer No.14

**API** 47-095- 0656

**Latitude:** 39°25'42.8"

**UTM Coordinates (NAD 1983)** 

**Longitude:** 80°47'36.6"

**Northing:** 4,364,366

Elevation: 1,010

**Easting:** 517,789

**TD:** 2,104

**Casing Record** 

**Producing Formation:** Big Injun

**Spud Date:** 1/15/1919

6" 1,911 976

Completion Date: 2/27/1919

5"

Well Log

**Not Available** 

Received

Office of Oil and Gas
W Dept. ol Environmental Protection

Permit

WW-4A /#35/27 Revised 6-07 Surface Owner Copy 100

1)	Date:	September 22, 2013	
2)	Operator's	s Well Number	
		M.W. Spencer No.14	

State

County

API Well No:

# 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 b) Name Address	Alva D. Spencer Estate C/O Marcia Mronzinski 3471 Maradee Ct. Farwell, MI 48622			Name Address (b) Coal Ow Name	NA vner(s) with Declaration
b) Name	3471 Maradee Ct.			(b) Coal Ow	
	Farwell, MI 48622				
Address					
	-				NA
				Address	
c) Name					
Address				Name	
				Address	
					NA
nspector	Joe Taylor			(c) Coal Les	ssee with Declaration
Address	497 Claylick Road			Name	
	Ripley, WV 25271			Address	
elephone					
1	address	Joe Taylor 497 Claylick Road Ripley, WV 25271	Address  Joe Taylor  497 Claylick Road  Ripley, WV 25271	Inspector Joe Taylor  Address 497 Claylick Road  Ripley, WV 25271	Address  Name Address  Inspector Joe Taylor Address  497 Claylick Road Ripley, WV 25271  Name Address  Name Address

TO THE PERSON(S) 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 its location and the plugging work order; and
- 2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the intructions 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	Gastar Exploration, Ltd.
	By:	And hy lam Mike McCown
	Its:	COO & Designated Agent
	Address	229 W. Main St., Suite 301
	The state of the s	Clarksburg, WV 26301
	Telephone	(304) 622-4796
		6
ubscribed and sworn before me this	day of) Oc	tabe 2013 NOV mand Gar
	Danil L	Not Affice of vicomental Not Affice of vicomen
My Commision Expires	Jane 11	2020 WV Dept. or

#### SURFACE OWNER WAIVER

Operator's Well Number M.W. Spencer No.14 47- 095- 0656

### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;

and the second

- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION** 

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned we objection to a permit being issued on those materials.	COPI and
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION HY AND RPORATION,
ETC. \	Office of 18013
Hhrciai Niosin Date 145 2013 Name	Office NOV 1 4 2013 and of
Signature \ By	ort more tection
Its	Debaratator
$\sqrt{}$	Wigneria
	Signature Date 12/13/2013
	EVV 12/13/2013

Form WW-9

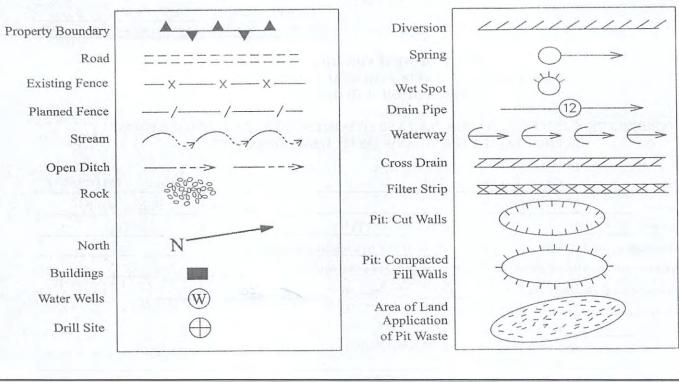
	Page	3	of	3
API	Number 47-	095	-	0656
Operator's Well No.	M.W.	Spencer	No.14	

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

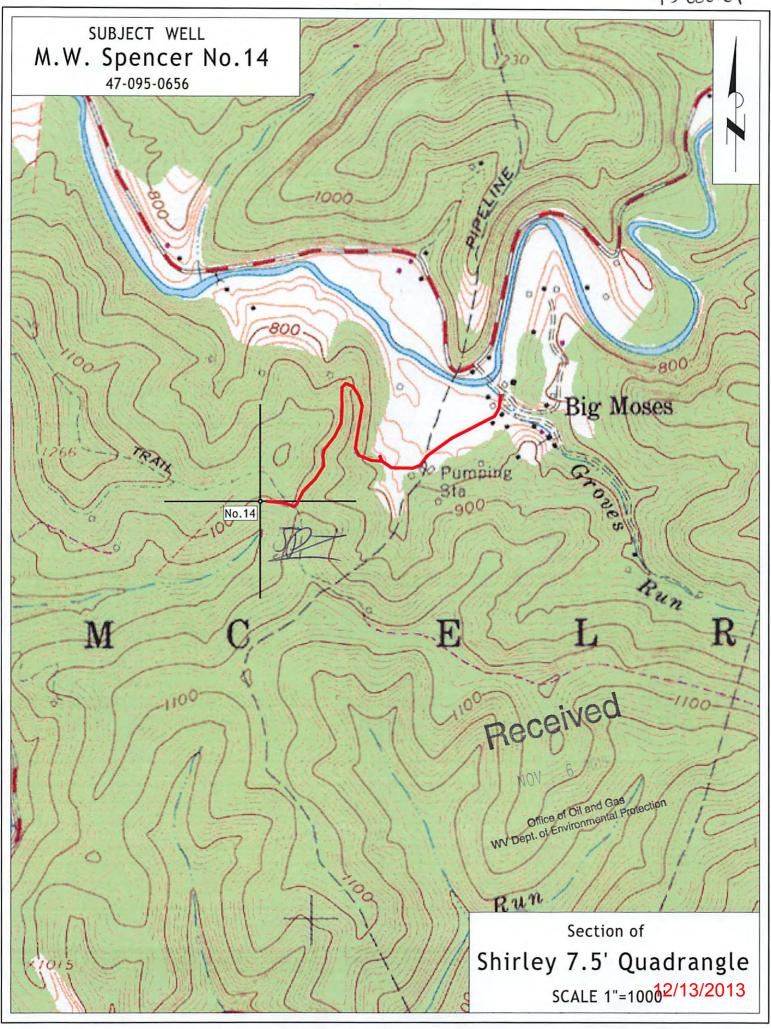
## CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Ex	ploration, Ltd.			P Code _	494487685
Watershed	Indian Cr	eek		Quadrangle_	Shi	rley 7.5'
Elevation	1010'	County	Tyler	District	M	cElroy
Description	of anticipated Pit Waste:	Fluids encount	ered in plugging sul	oject well		
Do you antic	ipate more than 5,000 bbls	of water to complete	the proposed well work?	Yes	No_	<u>X</u>
Will a synth	etic liner be used in pit?	Yes I	lf so, what mil.?	r 20		
Proposed Di	sposal Method For Treated	Pit Wastes:				
	X Land Applie	ation				
		d Injection (UIC Per	mit Number			)
	Reuse (at Al					)
			WW-9 for disposal location	in)		
	Other	(Explain		-		
Drilling med	ium anticipated for this wel					
	- If oilbased, what type? Sy	ynthetic, petroleum,	etc.			
Additives to		1, 1, 1,011	1 . 00 14	NIA.		
Drill cutting	s disposal method? Leave in		***************************************	NA	N	IA
	<ul> <li>If left in pit and plan to so</li> <li>Landfill or offsite name/p.</li> </ul>		n will be used: Cement,	nine, sawoust _	1/	7.7
	- Dandin of Offsite name/p	eriote italiaer:				
that the provapplicable la this applicate for obtaining penalties for	I certify that I understand gust 1, 2005, by the Office of visions of the permit are enforced was regulation can lead to I certify under penalty of lation form and all attachments the information, I believe to submitting false information.	of Oil and Gas of the orceable by law. Vio enforcement action. I have person the thereto and that, hat the information	West Virginia Departme lations of any term or cor mally examined and am f based on my inquiry of th is true, accurate and con	ent of Environment addition of the gener familiar with the innose individuals implete. I am aware mment.	al Protecti al permit formation mediately that the id	on. I understand and/or other submitted on responsible
Company C	Official (Typed Name)	M	like McCown	•	401,	<u>.</u>
Company C	Official Title	C	OO & Designated A	gent		oil and Gas
					Office of	<sup>Oil aud</sup> Gaz Oil aud Gaz
Subscribed	and sworn before me thi	' . <i>[                                  </i>	ay of a Octob	re 201	Notary P	
My commis	sion expires	Jone 1.	1 200			
Form WW-	9		/		Hotary	OFFICIAL SEAL Public. State of West Virginia

### Legend



			Are	a I	The second secon	
Proposed Revegetatio	n Treatment	: Acres Disturbed	Approx.	0.2 Ac.	Prevegetation pH	
			Area	ı II		
			Approx.	0.1 Ac.		
	Lime	2	Tons/Acre or Co	orrect to pH	6.5	
	Fertilizer (	(10-20-20 or Equiva	alent) 50	0 Lbs./A	cre (500 lbs. Minimum)	
	Mulch	Straw	2 Tons/Ad	ere		
			CEED MI	VTIDEC		
			SEED MI	XTURES	-	
	Area I (	Location)			Area II (Road	1)
Seed Type	17.35	Lbs/A	Ac.	Seed '		Lbs/Ac.
Tall Fescue	and the	40		Tall Fe		40
Ladino Clover	SUL	5		Ladino	Clover	ad 5
		Jan			Visa	80
				_	Receiv	
					110	0000
Attach:					6	Min
Drawing(s) of road, lo	cation nit a	and proposed area fo	or land application	1 To 1 To 1	Max	. Gas ation
Photocopied section o					010	il and Cla Protection
	/				Office Ovin	ouwe.
	//	1/2			NOV Office of O	
Plan Approved by	1/10	my E				
Comments:	1					
15-50						
Title:	Inspecs	hr			Date: 10-28-1	3
Field Reviewed?	2 - 4 - 1 - 1 - 1	Yes			No	
	W UNAITY			1		



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

## **WELL LOCATION FORM: GPS**

API: 47	- 095 - 0656		WELL NO:	No.14
FARM NAME:	M.W. Spencer			_
RESPONSIBLE PARTY	NAME: Gastar	Exploration, L	td.	
COUNTY:	Tyler		DISTRICT:	McElroy
QUADRANGLE:	Shirley 7.5'			
SURFACE OWNER:	Alva D. Spencer l	Estate		
ROYALTY OWNER:	Alva D. Spencer Estate			
UTM GPS NORTHING:	4,364,366	(NAD 83)		
UTM GPS EASTING:	517,789	(NAD 83)	GPS ELEVATION:	308 m. (1010 F
height abo 2. Accuracy t 3. Data Colle Survey Grade C Mapping Grade I the undersigned, hereby	AD 1983, Zone:17 North, we mean sea level (MSL) - to Datum - 3.05 meters ection Method:  GPS Post Processed DReal-Time Difference:  Real-Time Difference:  Certify this data is correct to a formation required by law of Oil and Gas.	meters.  bifferential  rential  bifferential  rential  to the best of my	Re X W Dep	Ceived  OV 6 2013  Office of Oil and Gas 1. of Environmental Protection
hup hy Com	Mike McCown		COO & Desig	gnated Agent
Signature			Title	
September 22, 2	013			
Date				