

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 06, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500660, 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.

Chief

James Martin

Operator's Well No: M.W. SPENCER NO. 19

Farm Name: SPENCER, ALVA D. .. ESTATE

API Well Number: 47-9500660

Permit Type: Plugging
Date Issued: 12/06/2013

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.

Date: September 29, 2013
 Operator's Well Number

M.W. Spencer No.19

3) API Well No:

47 095 State County

0660 Permit

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)	WELL TYPE:		X Gas	X	Liquid Inject Underground			Waste Dispo		allow	X	
5)	LOCATION:	Elevation:	783'		Watershed:	Indian	Creek					
٠, ١	Boermon.	District:	McElroy	05	County:	Tyler	05	Qu	adrangle	Shirley	7.5'	607
6)	WELL OPERAT Address	229 W.	Exploration, Ltd. Main St., Suite 3 ourg, WV 26301	301	494487685	7) DESIG		D AGENTAddress		cCown Main St. urg, WV		
	OIL & GAS INS Name Address	PECTOR TO Joe Taylor 497 Claylick Ripley, WV				9) PLUGO Name Addres		CONTRACTO	OR			
	WORK ORDER CASING	: The work o	order for the mann TD-1,872'	ner of plug Coal:		is as follow	/s:					
6"	1,682'		Gel Plug No. 1 Freepoint, Cu Plug No. 2 Plug No. 3 Plug No. 4	1770 et & Pull 850 400	2 - 1770 0 - 1630 6" Casing at 0 - 750 0 - 300 0 - Surface		6					
	0		Free point, cut of any cas Fill Well Bore Erect Monum	and pull a ing left in with 6%	well. Gel Between a							
M	INIMUM OF	100 F	ST BE A CLE OF CLE MORE TO OTHER AC	MUN				Rece	6 Oil and	Gas Gas	ion	
Insp	ector 24 hours	before perm	itted work can c	ommenc	e.			MA Debro	Environme			
W	/ork order appr	oved by Insp	pector	La	2				Date /	28-L	3	

WELL RECORD

Operator: Gastar Exploration, Ltd.

229 West Main Street Clarksburg, WV 26301

(304) 622-4796

Well: M.W. Spencer No.19

API 47-095- 0660

Latitude: 39°25'40.6"

Longitude: 80°47'17.5" **Northing:** 4,364,297

Elevation: 783

Easting: 518,245

TD: 1,872

Producing Formation: Big Injun

Spud Date: 5/15/1920

Completion Date: 6/18/1920

Casing Record 6" 1,682

UTM Coordinates (NAD 1983)

Well Log

Not Available

Received

Mu Deby of Euritourgenial brojection

Parkersburg, WV 26104 My commission expires June 11, 2020

WW-4A Revised 6-07 Surface Owner Copy



1)	Date: S	Septembe	r 29	, 2013		
2)	Operator's Well	Number	O.	100		
		M.W. Spe	ncer	No.19		
3)	API Well No:	47	-	095	8	0660
		State		County		Dormit

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

			(a) Coal Operator:	
	(a) Name	ner(s) to be served: Alva D. Spencer Estate	Name NA	
	Address	C/O Marcia Mronzinski	Address	
		3471 Maradee Ct.		
((b) Name	Farwell, MI 48622	(b) Coal Owner(s) with Declaration	
	Address		Name NA	
			Address	
1	(c) Name		, riditoss	
	Address		Name	
1	iduicss	0	Address	
		19	NA	-
)]	Inspector	Joe Taylor	(c) Coal Lessee with Declaration	
	Address	497 Claylick Road	Name	
1	Addiess	Ripley, WV 25271	Address	
,	Talankana	304-380-7469	Address	
	Telephone	304-380-7409		
_				
	TOTH	E PERSON(S) NAMED AF	BOVE: You should have received this Form and the following docume	nter
	10 111	ET ENSOTI(S) THIRD III	70 v B. Tou should have received this I offit and the following docume	itts.
		1) The Application to Plug an	d Abandon a Well on Form WW-4B, which sets out the parties involved	
			the well and its location and the plugging work order; and	
			howing the well location on Form WW-6	
		2) The plat (surveyor's map) s	nowing the well location on I offi w w-o	
	The reas	son you have received these docume	ents is that you have rights regarding the application which are summarized	
		on you have received these docume		
	in the in	tructions on the reverse side. Howe		
	in the in	tructions on the reverse side. Howe	ver, you are not required to take any action at all.	
			ever, you are not required to take any action at all.	
	Take no	tice that under Chapter 22-6 of the	ever, you are not required to take any action at all. West Virginia Code, the undersigned well operator proposes to file or has	
	Take no filed this	tice that under Chapter 22-6 of the s S Notice and Application and accom	ever, you are not required to take any action at all. West Virginia Code, the undersigned well operator proposes to file or has appanying documents for a permit to plug and abandon a well with the Chief	
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SURFACE OWNER WAIVER

Operator's Well Number M.W. Spencer No.19 47- 09500660

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;
- 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.

T C Clarest that I have no altistics to the almost		
I further state that I have no objection to the planned wo objection to a permit being issued on those materials.	vork described in these materials, and I have no	
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION,	
ETC.	The Of Oll	
Forcial (XXXI (Val) Date #5, 2013 Name	e Office 01/1 420/3	
Signature	No. mento.	40
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	and Date of e	
	Signature WV Dorntal Date	

Perkersburg, WV 26104
My commission expires June 11, 2020

Form WW-9

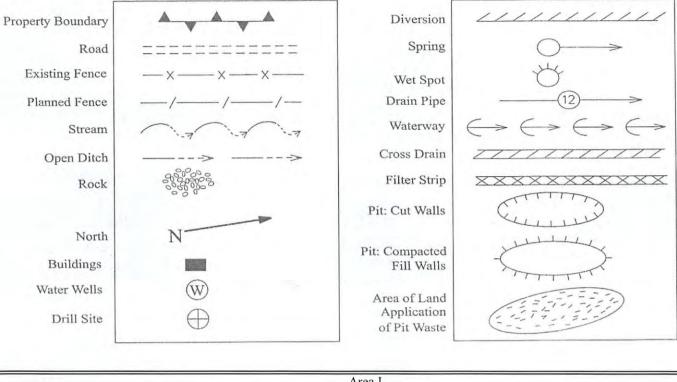
	Page	3	of	3
AI	I Number 47-	095	-	0660
Operator's Well No.	M.W. S	Spencer	No.19	

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

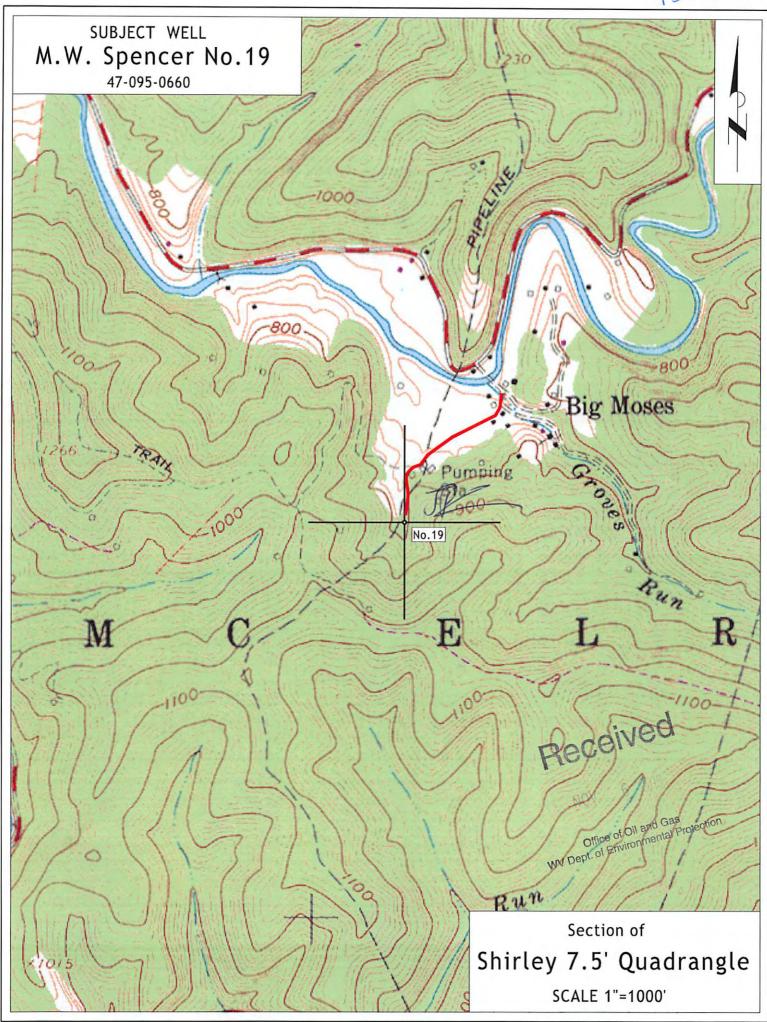
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Ex	ploration, Ltd.			c	P Code	494487685
Watershed	Indian C	reek			Quadrangle_	Shir	·ley 7.5'
Elevation	783'	County	Tyler		District_	Mo	:Elroy
Description of	of anticipated Pit Waste:	Fluids encou	intered in pluggi	ng subje	ect well		
Do you antic	ipate more than 5,000 bbls	of water to comp	lete the proposed wel	ll work?	Yes	No	X
Will a synthe	etic liner be used in pit?	Yes	If so, what mil.?	.10	20		
Proposed Dis	sposal Method For Treated	Pit Wastes:	-			 ,	
-	X Land Applic	ation					
	Undergroun	d Injection (UIC	Permit Number _)
	Reuse (at A	******	11011 0 0 11)
	Off Site Dis	posal (Supply Por (Explain	m WW-9 for disposa	l location)			
D.::11:				TA			
orning mea	ium anticipated for this we - If oilbased, what type? S		-	471			
Additives to	· ·	j manoria, pouroiet					W. Control of the Con
Drill cuttings	disposal method? Leave i	n pit, landfill, rer	noved offsite, etc.		NA		
	- If left in pit and plan to s	olidify, what med	ium will be used? $\overline{ ext{C}}$	ement, lin	ne, sawdust	N/	1
	- Landfill or offsite name/p	ermit number?					
applicable la this applicati for obtaining	isions of the permit are en- w or regulation can lead to I certify under penalty of I ion form and all attachmen the information, I believe submitting false informati	enforcement action with a large that I have pents thereto and that the informat	on. rsonally examined a at, based on my inqu ion is true, accurate	nd am fan iry of thos and compl	niliar with the inf e individuals im ete. I am aware	ormation s	submitted on esponsible
Company C	fficial Signature	<i>J</i>	hupe hel	" ~			9
Company C	fficial (Typed Name)		Mike McCown			\$1.5 \$100 1000 1000 1000 1000 1000 1000 1000	Citie Control
Company C	fficial Title		COO & Designa	ated Age	ent		
						7.7	
	//						
Subscribed	and sworn before me th	is 444	day of	ctob	er 201	3	
	Muil	h. La	ham			Notary Pu	blic
My commis	sion expires	June /1	1 2020	9		-	
Form WW-9)		/			ANHTO-	OFFICIAL SEAL
					}	A A I	clary Public. State of West Virg
					વ દુધારા	はなることに	DAVID W. PERKINSC

Legend



		Area I			
roposed Revegetation Treatme	ent: Acres Disturbed	Approx.	0.2 Ac.	Prevegetation pH	
		Area II			
	5	Approx.	0.1 Ac.		
Lime	2	Tons/Acre or Corre	ct to pH	6.5	
Fertilizer (10-20-20 or Equiva		ent) 500	Lbs./Acre ((500 lbs. Minimum)	
Mulch	Straw	2 Tons/Acre			
		SEED MIXT	URES		
Area	I (Location)			Area II (Road	1)
Seed Type	Lbs/Ac	э.	Seed Type		Lbs/Ac.
Tall Fescue	40		Tall Fescue		40
Ladino Clover	5	-	Ladino Clov	ver	5
ttach: brawing(s) of road, location, probable to the control of th				Recei	leq
Plan Approved by: Comments:	of ME	>		MA DEMY OF E	of Oil and Gas of Oil and Gas on oil and Gas on oil and Gas on oil and Gas of Oil and Oi
Title: Inspa	de			Date: 10-28-1	3



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 09	5 - 0660		WELL NO:	No.19		
FARM NAME: M.	W. Spencer					
RESPONSIBLE PARTY NAM	IE: Gastar E	xploration, Lt	d.			
COUNTY: Ty	ler		DISTRICT:	McElroy		
QUADRANGLE:	Shirley 7.5'					
SURFACE OWNER:	Alva D. Spencer Estate					
ROYALTY OWNER:	Alva D. Spencer Es					
UTM GPS NORTHING:	4,364,297	(NAD 83)				
UTM GPS EASTING:	518,245	(NAD 83) G	PS ELEVATION:	239 m. 783 FACT		
height above m	.983, Zone:17 North, C nean sea level (MSL) - m ntum - 3.05 meters n Method:		is. meters, Annu	uc.		
Survey Grade GPS	Post Processed Dif Real-Time Differe	the state of the s	_	eceived		
Mapping Grade GP	S X Post Processed Differe	ferential		NOV 6		
I the undersigned, hereby certibelief and shows all the information prescribed by the Office of Oil	nation required by law ar	the best of my	knowledge and ons issued and	Office of Oil and Gas		
make her Com	Mike McCown		COO & Desig	gnated Agent		
Signature		Ti	itle			
September 29, 2013						
Date	_	7				