

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 12, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500639, 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: P.M. FURBEE NO. 6

Farm Name: MASON, KENNETH & JENNIFER

API Well Number: 47-9500639 Permit Type: Plugging

Date Issued: 12/12/2013

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.

1) Date: October 1, 2013
2) Operator's Well Number

P.M Furbee No.6

API Well No: 47 - 095 - 0639

State County 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:	Oil	X Gas	Х	_ Liquid Injec Undergroun	tion _		Waste Dispo		allow	X
5)	LOCATION:	Elevation: District:	852' McElroy	05	Watershed: County:	McEli	roy Creek				y 7.5' 60 7
6)	WELL OPERA Address	TOR: Gastar I 229 W.			494487685		GNATE	Address	Mike M	lcCown	., Suite 301
8)	OIL & GAS INS Name Address	SPECTOR TO Joe Taylor 497 Claylick Ripley, WV	Road			9) PLUC Name Addre		ONTRACTO	OR		
10)	WORK ORDER CASING	t: The work o	rder for the manr TD-1,947'	ner of plu Coal:		is as follo	ows:				
	Not Available <u>LINERS</u>		Gel Plug No. 1 Freepoint, Cu Plug No. 2 Plug No. 3 Freepoint, Cu Plug No. 4	184 at & Pull 90 60 at & Pull	0 - 800 0 - 500	ing (If Pro					
			Free point, cut of any cas Fill Well Bore Erect Monum	and pull ing left in with 6%	n well. Gel Between a			00 ft. cemen	t plug at b	ottom	
A	class A c CaClz A	PLUGS CEMENT ND WO	MUST B WITH NI OTHER NO	o Moi	12 THAM	39	001	Re	NON E	Oil and G	as Protection
Ins	pector 24 hours	before permi	tted work can c	ommen	ce.			m	Office O	wironin	
	Work order app	roved by Insp	ector /	A	M	>			Date /	0-28-	B

WELL RECORD

95006398

Operator: Gastar Exploration, Ltd.

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

Well: P.M. Furbee No.6

API 47-095- 0639

Latitude: 39°25'43.3"

UTM Coordinates (NAD 1983)

Longitude: 80°48'58.4"

Northing: 4,364,377

Elevation: 852

Easting: 515,833

TD: 1,947

Casing Record

Producing Formation: Big Injun

Spud Date: 1/2/1897

Completion Date: 2/4/1897

Not Available

Well Log

Not Available

Received

Unice of Uli and Uas
W Dept. of Environmental Protection Office of Oil and Gas

377 East 10 1 1 2 1 2 1 3 Parkersburg. WV 26 104 2 0 3

My commission expires June 11, 2020

WW-4A Revised 6-07 Surface Owner Copy CK 35127

1)	Date: O	ctober 1	, 20	13							
2)	Operator's Well Number										
	P.M Furbee No.6										
3)	API Well No:	47	-	095	-	0639					
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

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Take notice to	ou have received these do ions on the reverse side. Find that under Chapter 22-6 of tice and Application and a	ocuments is that However, you a	t you have rights rare not required to	regarding take any dersigne	ww-6 g the application y action at all. ed well operator	n which are s	file or has	eived
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			Jan 1	2.	Puhin.	<u>~</u>	Nota	ry Public
My	Commision Expires	,	Jana 11	5	2020			
iviy			11	1	1	WEST TO	OFFIC	CIAL SEAL
	Take notice to filed this Not of the Office location desc Application, above (or by	Take notice that under Chapter 22-6 of fled this Notice and Application and	Take notice that under Chapter 22-6 of the West Virgilied this Notice and Application and accompanying of the Office of Oil and Gas, West Virginia Departmostation described on the attached Application and dapplication, and the plat have been mailed by register above (or by publication in certain circumstances) or a stribed and sworn before me this	Take notice that under Chapter 22-6 of the West Virginia Code, the under filed this Notice and Application and accompanying documents for a period of the Office of Oil and Gas, West Virginia Department of Environment location described on the attached Application and depicted on the attached Application, and the plat have been mailed by registered or certified manabove (or by publication in certain circumstances) on or before the day Well Operator By: Its: Address Telephone Telephone	Take notice that under Chapter 22-6 of the West Virginia Code, the undersigner filed this Notice and Application and accompanying documents for a permit to of the Office of Oil and Gas, West Virginia Department of Environmental Profoundation described on the attached Application and depicted on the attached For Application, and the plat have been mailed by registered or certified mail or deabove (or by publication in certain circumstances) on or before the day of mail Well Operator By: Its: Address Telephone Telephone	Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator filed this Notice and Application and accompanying documents for a permit to plug and aband of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with resplocation described on the attached Application and depicted on the attached Form WW-6. Cop Application, and the plat have been mailed by registered or certified mail or delivered by hand above (or by publication in certain circumstances) on or before the day of mailing or delivery to the day of the day	Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to filed this Notice and Application and accompanying documents for a permit to plug and abandon a well wi of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the w location described on the attached Application and depicted on the attached Form WW-6. Copies of this N Application, and the plat have been mailed by registered or certified mail or delivered by hand to the perso above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Its: COO & Designated Address Z29 W. Main St., St. Clarksburg, WV 26 Telephone Telephone Telephone Total day of Authorited Authori	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 panel above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Well Operator

SURFACE OWNER WAIVER

Operator's Well Number P.M Furbee No.6 47- 095- 0639

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.

<u>Comments must be in writing.</u> 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.

I further state that I have no objection to the planned wor	rk described in these materials, and I have no
objection to a permit being issued on those materials.	
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION,
ETC.	A contract of the contract of
X Just Many Date 1/7/13 Name	
Signature By	
Its	Date

Signature

12/13/2013

Form WW-9

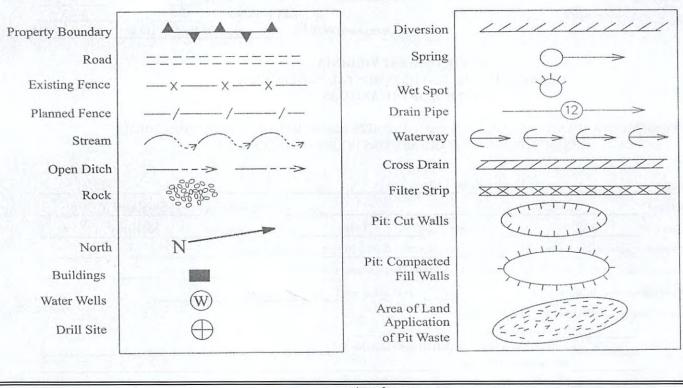
I	age	3	of	3
API Number	47-	095	-	0639
Operator's Well No.	P.M	Furbee	No.6	

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

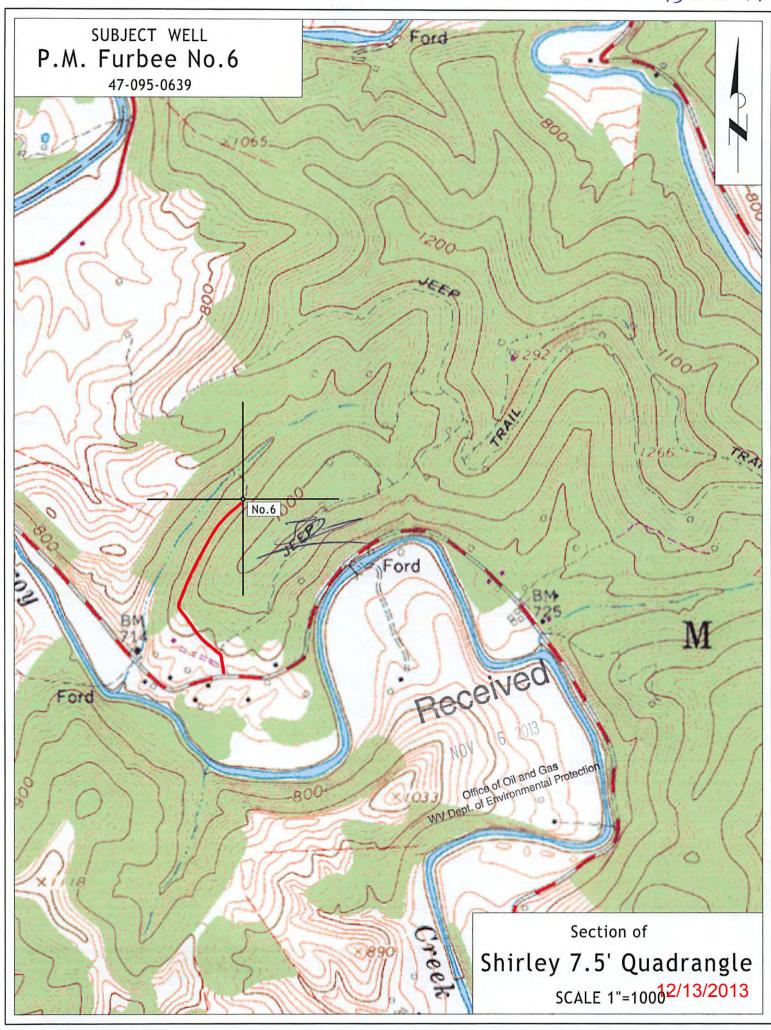
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Exp	loration, Ltd.		01	P Code	494487685
Watershed	McElroy C	reek		Quadrangle _	Shirle	y 7.5'
Elevation	852'	County Tyle	er	District_	McE	lroy
Description of	of anticipated Pit Waste:	Fluids encountered in plu	gging subj	ect well		
Do you antic	ipate more than 5,000 bbls o	f water to complete the proposed	well work?	Yes	No X	-
Will a synthe	etic liner be used in pit?	Yes If so, what mi	1.?10^-	20		
Proposed Dis	sposal Method For Treated P	it Wastes:				
	X Land Applica					
	Underground Reuse (at AP	Injection (UIC Permit Number I Number)
		osal (Supply Form WW-9 for disp	osal location)	· · · · · · · · · · · · · · · · · · ·		,
		(Explain				
Drilling med	ium anticipated for this well	? Air, fresh water, oil based, etc	. NA			
	- If oilbased, what type? Sy	nthetic, petroleum, etc.				
Additives to		with land Cill warmen and a Coite and		NIA		
Drill cutting		pit, landfill, removed offsite, etc lidify, what medium will be used		NA ne. sawdust	NA	
	- Landfill or offsite name/pe		. Coment, m			
this applicat for obtaining penalties for	ion form and all attachments the information, I believe the submitting false information	w that I have personally examines thereto and that, based on my in the information is true, accumal, including the possibility of fine	inquiry of thos rate and comp	se individuals imn lete. I am aware t	nediately res	ponetrid &
• •	Official Signature	Mr. Mr.	com			MUN Gas recy
	Official (Typed Name)	Mike McCov				Ollice of Gil and Gas Debr. of Environmental Protecti
Company C	Official Title	COO & Desi	gnated Age	ent		Office Environm
					414	Deh
Subscribed	and sworn before me this	1 4/1/2 day of (Octob	/	/3 lotary Publi	
My commis	ssion expires	1 11 2020				
Form WW-	•	/			OFFICIA	I SEAL
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Legend



				Area I			
posed Revegetatio	n Treatment:	Acres Disturbed		Approx.).2 Ac.	Prevegetation pH_	
				Area II			
				Approx. ().1 Ac.		
						11	
	Lime	2		Acre or Correc	_	6.5	
		0-20-20 or Equiv		500	Lbs./Acr	e (500 lbs. Minimum)	
	Mulch	Straw	2	_Tons/Acre			
			S	EED MIXT	URES		
				LLD MINT	CICES		
	Area I (I	Location)				Area II (Ro	ad)
Seed Type		Lbs/	Ac.		Seed Ty		Lbs/Ac.
Tall Fescue		. 40		_	Tall Fesc		40
Ladino Clover	Jan	5			Ladino C	Clover	5
	179			_	_	:40	
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otocopied section o				••		of	July Lines
		2				Office En	ill and Gas Protection
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Plan Approved by	· Jus	- Marie Company				whi	
Comments:	//						
	/						
	Will the same	io .					
Title:	woods					Date: 10-22	8-13
Title:	ESSAIDING TO	× Yes				Date: 10-22	813



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47-	- 095 - 0639	WELL NO: No.6	
FARM NAME:	P.M Furbee		
RESPONSIBLE PARTY	NAME: Gastar	Exploration, Ltd.	
COUNTY:	Tyler	DISTRICT: McElroy	
QUADRANGLE:	Shirley 7.5'		
SURFACE OWNER:	Kenneth & Jenni	fer Mason	
ROYALTY OWNER:	Kenneth & Jenni	fer Mason	
UTM GPS NORTHING:	4,364,377	(NAD 83)	
UTM GPS EASTING:	515,833	(NAD 83) GPS ELEVATION: 260 m. (852	FEET
height aborAccuracy tData Colle	ve mean sea level (MSL) - no Datum - 3.05 meters ction Method:		
Survey Grade C	Post Processed D Real-Time Differ	oifferential peceived	
	e GPS X Post Processed D Real-Time Differ	rential NOV 6	
I the undersigned, hereby belief and shows all the in prescribed by the Office of	certify this data is correct to formation required by law of Oil and Gas.	o the best of my knowledge and Office of Oil and Gas Office of Oil and Gas and the regulations issued and of Environmental Protection WV Dept. of Environmental Protection	
Much he Com	Mike McCown	COO & Designated Agent	
Signature		Title	
October 1, 2013			