

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: 47-9500645, 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: E. FORRESTER NO. 1

Farm Name: JENNINGS, RONALD W. ., ET AL.

API Well Number: 47-9500645

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.

Permit

WW-4B Rev. 2/01 1) Date: September 26, 2013
2) Operator's Well Number
E. Forrester No.1
3) API Well No: 47 - 095 - 0645

County

State

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 (If "Gas	X Gas	X	Liquid Injec Underground			Waste Dispo		allow	X	
5) LOCATION:	Elevation: District:	1006' McElroy	05	Watershed: County:	McElr Tyler	oy Creel		ıadrangle	Shirley	7.5'	601
6) WELL OPERAT Address	229 W.	Exploration, Ltd. Main St., Suite ourg, WV 26301	301	494487685	7) DESIG		Address		cCown Main St. urg, WV		
8) OIL & GAS INS. Name Address	PECTOR TO Joe Taylor 497 Claylick Ripley, WV	Road			9) PLUG Name Addre		ONTRACT	OR			
10) WORK ORDER: CASING	The work of	order for the man	ner of plug Coal:		is as follo	ws:					
12" 16' 6" 1,935'		Gel Plug No. 1 Freepoint, Cu Plug No. 2 Plug No. 3 Plug No. 4	it & Pull 1050 450	- 1885		st.)					
		Free point, cut of any cas Fill Well Bore Erect Monum	and pull a sing left in with 6% (well. Gel Between a			00 ft. cemer	at plug at b	ed		
CEMENT PLUC WITH NO MOD OTHER ADDIT 100' THICK	IR THAN	300 CC	1 AN	o No.				CEIV	f Oil and G	as al Profe	action
Inspector 24 hours b	pefore perm	itted work can c	commence	e.			1	N Dept. or 2			
Work order appre	oved by Insp	pector	M	15			_	Date 10	e-28~ (3	

WELL RECORD

Operator: Gastar Exploration, Ltd.

229 West Main Street
Clarksburg, WV 26301

(304) 622-4796

Well: E. Forrester No.1

API 47-095-0645

Latitude: 39°25'41.0"

UTM Coordinates (NAD 1983)

Longitude: 80°47'48.0"

Northing: 4,364,308

Elevation: 1,006'

Easting: 517,514

TD: 2,081'

Producing Formation: Big Injun

Spud Date: 6/10/1896

Completion Date: 7/26/1896

Casing Record
12" 16'
6" 1,935'

Well Log

Not Available

Pieceived

NOV

Office of Oil and Gee Protection

Office of Cit and Gee Protection

377 East ow prod 20 Parkersburg, WV 26104 My commission expires June 11, 20

WW-4A
Revised 6-07
Surface Owner Copy

WW-4A

1)	Date:	Septembe	r 26.	, 2013		
2)	Operator's Wel	ll Number				
		E. Forr	ester	No.1		
3)	API Well No:	47		095	-	0645
		State		County		Permit

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

4)	4) Surface Owner(s) to be served:			5)) (a) Coal Operator:				
	(a) Name	Ronald W. Jennings, et al.	V		Name	NA			
	Address	64 Fenwick Ct.			Address				
		Dover, DE 19904							
	(b) Name	Alva D. Spencer Estate	V		(b) Coal Ov	vner(s) with Declaration			
	Address	C/O Marcia Mronzinski			Name	NA			
		3471 Maradee Ct.			Address	-			
	(c) Name	Farwell, MI 48622				4			
	Address				Name	-			
					Address				
		-				NA			
6)	Inspector	Joe Taylor			(c) Coal Les	ssee with Declaration			
	Address	497 Claylick Road			Name				
		Ripley, WV 25271			Address	-			
	Telephone	304-380-7469							

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- 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:	Make Mike McGolle
		Its:	COO & Designated Agent
		Address	229 W. Main St., Spite GO
			Clarksburg, WV 26301
		Telephone	(304) 622-4796
			MU and Gas Protect
Subscribed and sworn before me this	446	day	Octobe 2013 office of Oil &
_		Dunt	Clarksburg, WV 263014 (304) 622-4796 Octobe 2013 omce of Oil and Gas Protect NOV Note of Oil and Gas Protect Note of Oil and Ga
My Commision Expires		June	11 2020

SURFACE OWNER WAIVER

Operator's Well Number E. Forrester No.1 47- 095- 0645

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 plated as

I further state that I have no objection to the planned work objection to a permit being issued on those materials. FOR EXECUTION BY A NATURAL PERSON	described in these insterious and I have no FOR EXECUTION BY A COMPORATION,
ETC.	TOR EXECUTION DI A COMPONATION,
	NOV 1 Department of Protectics
LOUCIO AL ACONTACO Date H. J. W. Mame _	Depar Prote
Signature By	WV Chentar
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	irOn" Date
	Eina

Signature

T	WW.	G
11 (13) 773		

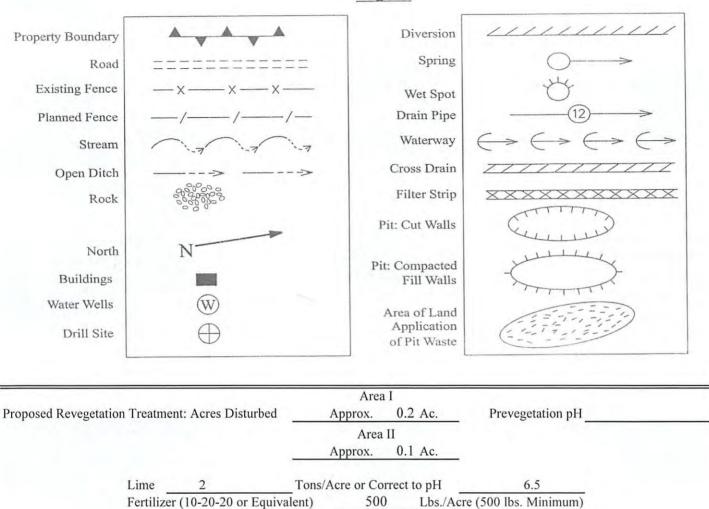
	Page_	3	of _	3
API No	umber 47.	095		0645
Operator's Well No.	E. Fo	rrester	No.1	

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				OP Code	494487685
Watershed	McElroy	Creek			Quadrangle	Shir	ley 7.5'
Elevation	1006'	County	Tyler		District	Mc	Elroy
Description -	of anticipated Pit Waste:	Fluids enco	untered in plug	ging subje	ct well		
Do you antic	cipate more than 5,000 bbls	of water to comp	lete the proposed v	ell work?	Yes	No	<u>X</u> .
Will a synth	etic liner be used in pit?	Yes	If so, what mil.?	.10	20		
Proposed Di	Reuse (at A Off Site Dis	cation nd Injection (UIC PI Number posal (Supply Fo	Permit Number rm WW-9 for dispo	eal location))
	Other	(Explain					
Drilling med	lium anticipated for this wo - If oilbased, what type? \$			NA			
Additives to		yntinetic, petitole	um, etc.				
Drill cutting	s disposal method? Leave	in pi t, landfill, re	moved offsite, etc.		NA		
,	- If left in pit and plan to s	7	dium will be used?	Cement, lim	ic, sawdust	NA	7
	- Landfill or offsite name/	ermit number?					
this applicat for obtaining penalties for Company C	w or regulation can lead to I certify under penalty of lition form and all attachment the information, I believe submitting false information Official Signature Official (Typed Name)	aw that I have po its thereto and th that the informat	ersonally examined that, based on my intion is true, accurate possibility of fine of the Mike McCowr	quiry of those and compler imprisonm	e individuals in etc. I am award ent.	nmediately r	esponsible
Company C	Official Title		COO & Desig	nated Age	nt	130%	
						, ,	and Gas
Subscribed	and sworn before the th	is 4th	dasfor (Deta)	ber, 20	O/3 Dept Notary Pul	ifice of coll and Gas ifice of collection of Environmental Prolection of Environmental
My commis	sion expires)4n7 1	11 20	20			·
Form WW-	9		<i>)</i> ———			DAV	OFFICIAL SEAL Public. State of West Virginia TO W. PERKINSON 317 Ensiview 199/13/20 Parkurshurg. WV 25704 Park

Legend



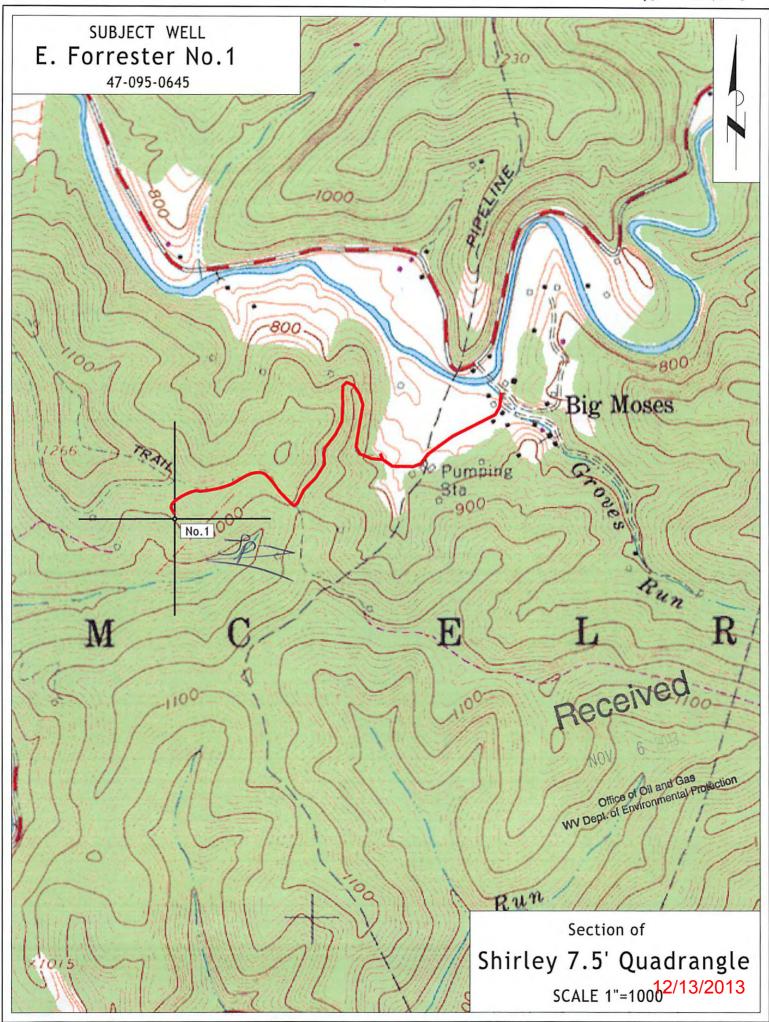
SEED MIXTURES

Tons/Acre

Mulch

Straw

Area I (Location)_	Area	a II (Road)
Seed Type	Lbs/Ac.	Seed Type	Lbs/Ac.
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	.10 5
			Ola
			30
		00	200
No. 4			NOV Office of Oil and Cas Protection
Attach:			MO all and ontall
Drawing(s) of road, location, pit a		tion	of of ironnia
Photocopied section of involved 7	.5' topographic sheet.		Office Elva
	177		My Dest.
Plan Approved by:			Ma
Comments:			
Comments.			
			25.13
Title: Inspector		Date:	10-28-13
Field Reviewed?	Yes	No	
i icid Reviewed:	103	N	



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47-	095 -	0645		WELL NO:	No.1
FARM NAME:	E. For	rester			
RESPONSIBLE PARTY N	IAME:	Gastar]	Exploration,	Ltd.	
COUNTY:	Tyler			DISTRICT: _	McElroy
QUADRANGLE:	-	Shirley 7.5'			
SURFACE OWNER:		Ronald W. Jennin	gs, et al.		
ROYALTY OWNER:		Ronald W. Jennin	gs, et al.		
UTM GPS NORTHING:		4,364,308	(NAD 83)		
UTM GPS EASTING:		517,514	(NAD 83)	GPS ELEVATION	:307 m. (1006 FT)
height abov	ion plat GPS coo AD 1983 ve mean o Datum	for a plugging pernordinates that do no , Zone:17 North, (sea level (MSL) - rongle - 3.05 meters	nit on the abo t meet the fo Coordinate U	ove well. The Office llowing requiremen Inits: meters, Altitu	ts: de:
Survey Grade C	PS _	Post Processed De Real-Time Differ			aceived
Mapping Grade	GPS X	Post Processed D. Real-Time Differ		X	Received
I the undersigned, hereby belief and shows all the in prescribed by the Office o	formatio	on required by law a		ny knowledge and	WV Dept. of Environmental Protect
In hulan	N	like McCown		COO & Desig	gnated Agent
Signature				Title	
September 26, 20 Date)13		_		
שמוס					