

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

October 21, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9501088, 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: BEN C. JACKMAN NO. 6

Farm Name: BLATTNER, LOUIS

API Well Number: 47-9501088

Permit Type: Plugging
Date Issued: 10/21/2013

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. 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.

WW-4B Rev. 2/01 Date: September 8, 2013
Operator's Well Number
Ben C. Jackman No.6
API Well No: 47 - 095 - 1088
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 (If "Ga	X Ga s", Produc	110	X	Liquid Injec Undergroun		Waste Di		allow _	X	_
5)	LOCATION:	Elevation:	114	49'		Watershed:	McElroy Cre	eek				
		District:	Mo	cElroy	05	County:	Tyler	95	Quadrangle	Shirley	7.5	607
6)	WELL OPERAT	OR: Gastar	Exploratio	on, Ltd.		494487685	7) DESIGNAT	ED AGENT	Mike M	cCown		
	Address	229 W	. Main St.,	Suite 30	1			Address	229 W.	Main St.	, Suit	e 301
		Clarksl	ourg, WV	26301					Clarksb	urg, WV	2630	1
8)	OIL & GAS INS Name	Joe Taylor		IFIED			9) PLUGGING Name	CONTRAC	CTOR			
	Address	497 Claylic					Address					
	-	Ripley, WV	252/1									
8 5. 4 1. T	/2" 2,350' OC Est 1700'	Not	Gel Plug N Freepo	NAL TI Check To. 1 oint, Cut	TD to V TD 2130 & Pull	5' Plugged l erify Partial - 2130 - 2030 4 1/2" Casin	pack to ~2,130' Plug Depth g at 1,700' (Est.	7.3	320 - 2		F	COM
	LINERS		Plug N			- 1650						
			Plug N Plug N		1330 100							
					N	OTES:						
		31	of a Fill Wel	any casin 11 Bore w	g left in ith 6% C	well.	gs present. Place	: 100 ft. cen	nent plug at b	ottom		

Inspector 24 hours before permitted work can commence.

Work order approved by Inspector

Received Date

9-27-17

OCT 2 2013

1 12/2/1



OFFICE COPY NOV 2.9 1984

·IV-35 (Rev 8-81)

State of West Airginia

Bepartment of Mines

Oil and Gas Bivision

Date OCTOBER 15, 1984
Operator's
Well No. BEN C. JACKMAN #6
Farm E & W LAWION; K. COLVIN
API No. 47 - 095 - 1088

WELL OPERATOR'S REPORT

OF

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

WELL TYPE: Oil / Gas XX / Liquid Injection (If "Gas," Production / Undergroup	n/ Wast und Storac	te Disposa me / Dee	1/	allow /)	
LOCATION: Elevation: 1147.6 Watershed LAI District: MC ELROY County TY	BELL RUN O	F MCELROY	CREEK OF	MIDDLE ISLAND) :F:K
MC EDROT COURTY	YLEK	Quadrangi	e SHIRL	EY 7.5'	
	****				•
COMPANY QUAKER STATE OIL REFINING CORPORATION					
ADDRESS P.O. BOX 1327: PARKERSBURG, WV 26101	Casing	Used in	Tef+	Cement	
DESIGNATED AGENT CARL J. CARLSON	Tubing	1		fill up Cu. ft.	
ADDRESS_p.O. BOX 1327; PARKERSBURG, WV · 26101	Size		TIL METT	Cu. It.	
SURFACE CWNER E. LAWTON, 535 S. 1st, PRINCETON,	20-16				
ADDRESSK. COLVIN, 212 MCKINLEY; PITTSBURGH 1356	Cond.				
MINERAL RIGHTS OWNER SAME AS ABOVE 15201	13-10"				
ADDRESS	9 5/8		_		
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1280'	1280'	350 SX	
ROBERT LOWITHER ADDRESS GENERAL DEL: MIDDLEBOURNE,	7				
PERMIT ISSUED AUGUST 7, 1984 WV 26149	5 1/2				
DRILLING COMMENCED AUGUST 23, 1984	3	5267'	5267'	275 SX	
DRILLING COMPLETED SEPTEMBER 3, 1984					
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON_	Liners used				
GEOLOGICAL TARGET FORMATION ALEXANDER	·	Dept	h 5420-5	491 feet	
Depth of completed well 5515 feet R	otary xx	/ Cable	Tools		
Water strata depth: Fresh N/A feet;	Salt_ N/	A feet		- <u>-</u>	
Coal seam depths: N/A			d in the	area? NO	
OPEN FLOW DATA		-			_
Producing formation BENSON, RILEY	Pay	zone dent	h =160	4500 Fort	7
Gas: Initial open flow 350 Mcf/d	Oil: Init	tial open	flow -	4 / 28 Teet	1 T T T
Final open flow 75 Mcf/d	Fina	al open fl	CW	Bb1/d	7
Time of open flow between initi					
Static rock pressure 2000 psig(surface				a abut i-	_
(If applicable due to multiple completion-				10/25/2013	, C
Second producing formation		zone debr	boois		Ö
Gas: Initial open flow Mcf/d	Oil: Init	ial open	flow	Bb1/d	
Final open flow Mcf/d					
Time of open flow between initial	al and fir	al tests	hou	re	
Static rock pressurepsig(surface)	measuremer	nt) after Off	ice of Oil and G	ias Project, in	

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

PERFORATED FROM 5168 - 5176' WITH 16 SHOTS. FRACTURED WITH 325 BBLS. 3% KCl + N2, 175 SX 20/40 SAND. BREAKDOWN @ 2300#. AVG. TREATING PRESSURE @ 2739#. AVG. RATE 24 BPM. ISIP 1500#.

PERFORATED FROM 4728 - 4734'; 4744 - 4751'; 4756 - 4760' WITH 34 HOLES. FRACTURED WITH 600 BBLS 3% KC1; + N2, 350 SX 20/40 SAND. BREAKDOWN @ 1600#. AVG. TREATING PRESSURE @ 2765#. AVG. RATE @ 28.3 BPM. ISIP @ 1500#.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SILT AND SHALE SAND SILT AND SHALE SAND SILT AND SHALE LITTLE LIME PENCIL CAVE BIG LIME BIG INJUN SHALE WEIR SHALE BEREA SHALE GORDON SHALE SILT SHALE WARREN SHALE RILEY SHALE BENSON SHALE BENSON SHALE ALEXANDER SHALE	0 142 180 1778 1832 2000 2014 2016 2162 2269 2434 2520 2630 2645 2844 2900 3067 3078 3544 3610 4737 4760 5168 5176 5491	142 180 1778 1832 2000 2014 2016 2162 2269 2434 2520 2630 2645 2844 2900 3067 3078 3544 3610 4737 4760 5168 5176 5491 5515	
			-

(Attach separate sheets as necessary)

QUAKER STATE OIL REFINING COR	PORATION
Well Operator Branch	
By: MICHAEL C. BRANNOCK	10/25/2013
Date: OCTOBER 15, 1984	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including event, encountered in the drilling of a well."

WR-35

LOG WHICH

· · · / · · ·

11-Dec-91 API # 47- 95-01088 A

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work LAWTON, ELLEN & WATSON Farm name: Operator Well No.: JACKMAN 6 LOCATION: Elevation: 1147.60 Quadrangle: SHIRLEY District: MCELROY County: TYLER 14200 Feet South of 39 Deg. 27Min. 30 Sec. Latitude: Longitude 11700 Feet West of 80 Deg. 45 Min. 0 Company: QUAKER STATE CORPORATION P.O. BOX 189/1226 PUTNAM HOWE | Casing | Used in Left |Cement | BELPRE, OH 45714-0189 & Fill Up Tubing Drilling | in Well|Cu. Ft.| Agent: FRANK R. ROTUNDA Size Inspector: MIKE UNDERWOOD Permit Issued: 12/09/91 Well work Commenced: 8_5/8 1280 12/12/91 <u>CTS</u> Well work Completed: 12/19/91 Verbal Plugging (1700¹) 4 1/2 Permission granted on: <u>2350</u> <u>150</u> sx Rotary ___ Cable Total Depth (feet) 2 3/8 2130 Fresh water depths (ft) RECEIVED Salt water depths (ft) Office of Oil & Gas Is coal being mined in area (Y/N)? 1 Coal Depths (ft): No WV Division of OPEN FLOW DATA **Environmental Protection** Producing formation Big Injun Pay zone depth (ft) 2166 Gas: Initial open flow_ N/A MCF/d Oil: Initial open flow N/A
N/A MCF/d Final open flow N/A Final open flow _ Final open flow Bbl/d Time of open flow between initial and final tests N/A Hours Static rock Pressure N/A psig (surface pressure) after N/A Second producing formation Pay zone depth (ft) Gas: Initial open flow_ MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure _psig (surface pressure) after Hours NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2)10/25/2006 NOTE: ON BACK OF

IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD

Date:

For: QUAKER STATE CORPORATION

1/31/92

Frank Rotunda

INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

0CT

of Oil and Gas

WV Dept. of Environmental Protections

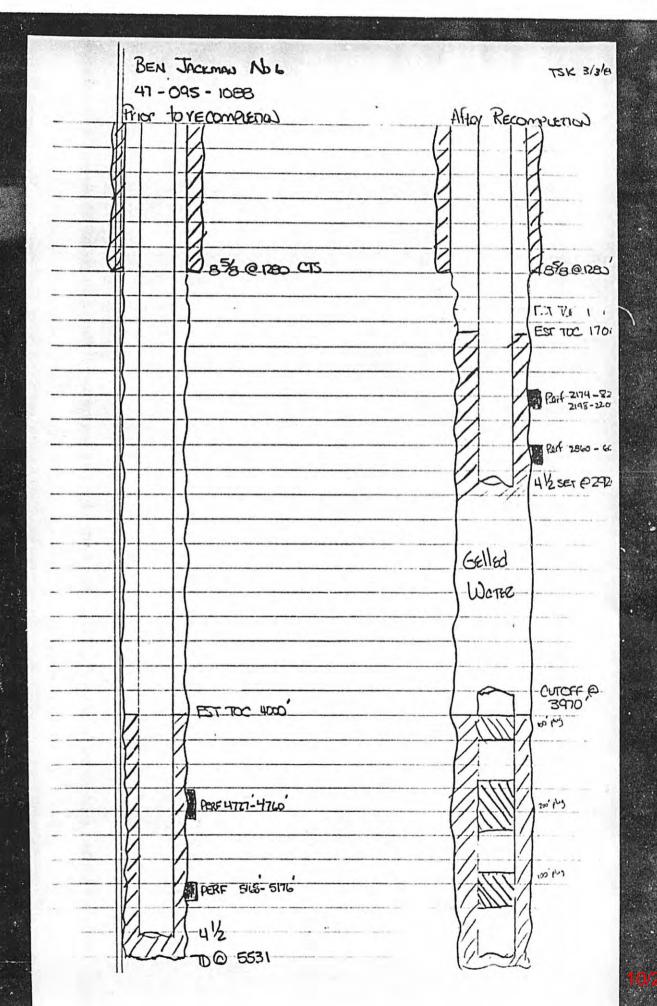
15

Treatment

Perf: 2166' - 2206' with 37 holes Frac: 553 bbl fluid and 225 SX 20/40 sand Broke @ 2250 PSI Treated @ 31 BPM @ 2100 PSI

Well was plugged back and stimulated in the Big Injun for Disposal.

FORM IV-6 (8-78)



TRA	66	
IR.	ER	SE

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE	API# 47	- 95-01088 A	1.
	- OPERATOR	R: QUAKER STATESE	2P2RAPION
ELEVATION: 1147.60			, Davision of
DISTRICT: MCELROY	TELEPHON	Environ	mental Protection
QUADRANGLE: SHIRLEY	FARM: LA	AWTON, ELLEN & WA	ISON
COUNTY: TYLER	WELL NO	.: JACKMAN 6	
SURFACE OWNER	COMMENTS	(Y/N) TELEPHO	NE
TARGET FORMATION	DATE APP	LICATION RECEIVED	12/05/91
DATE PERMIT ISSUED: 12/06/91		Nucce	w constant
DATE PERMIT ISSUED: 12/06/91 DATE LOCATION STARTED 12-79/	NOTIFIED 4E	DRILLING COMMI	ENCED 12-16-91
WATER DEPTHS,			
COAL DEPTHS			
			Park
(SAUED WELL FOR Dispo	SIA CASING	NOTES ON	BALIC
RANFEET OF	" PIPE ON	with	FILL UP
RANFEET OF	- TERE ON	WITH	FILL UP
RANFEET OF	_ PIPE ON _	мтти	FILL UP
RANFEET OF	_" PIPE ON _		
RANFEET OF	_ PIPE ON _	WITH	FILD OF
RANFEET OF	_" PIPE ON _	with	FILL UP
	PITS		
PIT DISCHARGE DATE		TYPE	
FIELD ANALYSIS PH	Fe	mg/l Cl	mg/l
D.O	_mg/l TOC	mg/l	
WELL RECORD RECEIVED		PH OF PRE-SEEDIN	G SOIL
DMR RECEIVED		TONS OF LIME API	•
DAK KBOBI I -		BALES OF MULCH	APP.
DATE RELEASED 9-24-9	7	11/0-	
	Mikel	SPECTOR'S SIGNATU	PF
-	/ / /		
RECORD ALL	VISITS TO THE	HIS WELL ON BACK-	

12: 9-91 - Sat on 5.75
Two BoHom Hole plugs

12-10-91 - Ek on JOB HAD TO LEAVE
12-11-91 Sct on 5.72

Sct middle plug

12-12-51

Set an 5.45.

5180 - 5080 - CEMENT 5080 - 4800 - GEC 4800 - 4700 - CEMENT. GEL HOLE - 50 3800° Shot off pipe could Not pull—

CEMENT. 3800 - 3700 8 Shot off pips 3680 Could Not pull. Shot off fight 4/2 3030 - FREED up 9NO pull four 1ts Set down there 1318040 C.C. To Surface PAN 150 Sk 50 plas

23200

FORM Na-2(B) (C) (B) 7-35	R	MAY 1 9	1888 1888 NE	STATE OF	WEST VIRGIT RGY, OIL AND RAWELL WOO	3) AF	erator's II No. DENI JA	County	19.86	
8) OIL & GAS IN	B (If " Elevat District ATOR QU PO- Park NSPECTO Robe Gene Hidd	Oss", Production HGE: AMER STAT BOX 13. CONTROL OF	11. 1 roy 2 off 1 roy 1	CODE:40 COD	9) Di No (304) 758- Perforate nevecify) Pull	Esignater Address RILLING Co	McElroy Cree Quadrangle: Quadrangle: AGENT Samue 1226 Putn Bellre, Contractor: SMATH DEL. F.O. Box Jawrengev Stimulate XX /	k of Mid Shirle L F. Ba M Howa I 4571 LING LING LING LING LING LING LING LING	Mie Island (y 7.5' urber Drive 4	
13) Approxim 14) Approxim 15) CASING AND	ate trata de	epths: Fresh,			et; salt	5471 mined in the	feet. area? Yes	/ No.	_ XX/	
CASING OR TUBING TYPE	Size	SPECIFICATION Weight per ft.	1	Used For	POOTAGE INTERVA	LS Left in well	CEMENT FILL-UP OR SACES (Cubic feet)	PAC	TERS	
Confuctor Presh water Coel Intermedia	5/8	1140 24	300	1	2801	1280'	335 px	Kinde State		
Production A Tubing	2"	J55 10.5 J 4.5		24	201	2920'	1200' AS N	Perforations Top	W RILE 15.0	
issued in les record sign(s surface owner I l side of this	ss than s) the r's cop hereby Applic	of 15 days following by of the state that cation, an	from to "Volu Applic COLUNTA to I had that	he filing ntary Sta ation. RY STATEM we read t I have r	of the App tement of 1 ENT OF NO (he instruc- eceived co	OBJECTIONS to pies of	N surface owns (L) a Notice	ace own acsimile ers on the	er(s) of of this he reverse ication for	5.
a Well Work I (3) a survey for proposed I i materials, an (For execution	plat o well v further nd I ha	on Form Work on my state the ave no obj	-6, an surfa at I h jection	d (4) a C ce land a ave no ob to a pen	onstructions described jection to mit being:	n and Re d therei the pla issued h	clamation Pla n. nned work de:	on For scribed : materia	rm WW-9, all in these als.	
NAME:							(Signature)	Dut		
Its .			Date					Date		
			Hall			1000	(Signature)	Date		10/25/2013

FORM WW-2(B)	FILE CO	PY.	era parti	CAPCE	CES.	STATE TOTAL	1) Date: 2) Oper	alor's	11 30, 1, 86
(Obverse)	10)	STO.	[][[]	1/5	111	自企政制	Well	No. BEN JA	CKMAN #6
7/85	4	100	- Ca /	i Th	181	1.2	3) API	Well No. 47 State	-095- 1088 -F County Permit
	11/1	MAY	1 8 10	ige .	THE	1			
	(mil tal)	· manar	OF ALL	B. 254	STATE	E OF WEST VIRG	INIA	.5.	
	DEF	PARTMI	ENFERM	APP	HTOF LICATIO	E OF WEST VIRG ENERGY, OIL AT ON FOR A WELL V	ND GAS DIVIS	ION	
4) WELL TYPE:	A Oil .		_/ Gas _	XX		/ Hadesaround stor	100	/ Deep	_/ Shallow _XX_/)
		Gas", Pro	oduction .	114	47.6	Watershed: Labe	ell Run of	McElrov Cre	ek of Middle Island
5) LOCATION:			McElr		,-		20 [Quadranele:	Shirley 1.3 65 *
	ATOR OL	IAKER !	STATE	OIL	CODE	: 40400_ 7)	DESIGNATED Address	1226 Putr	el F. Barber nam Howe Drive
Address	P.O.	. Box	1327 urg,		2610	11		Belpre, C	OH 45714
8) OIL & GAS	INSPECTO	OR TO BE	NOTIFI	ED		9)	DRILLING CO	NTRACTOR:	
Name	Robi	ert L	owthe	r		_	Name	P.O. Box	150
Address	Gen	eral	Deliv	ery	20	149 (304) 7	58-4764	Lawrence	ville, IL 62439
		22.0	urne,		/ Deill	deener	/ Redrill	/ Stimulate_	X_/
10) PROPOSED	WELL W		Drill				*	VV /	
			Other ph	vsical c	hange in	well (specify)_PII	11 pipe/r	e-cement	over new interval (See attache
11) GEOLOGIC	AL TARG	ET FORM	ATION.	B	ig I	njun			(See attache
12) Estimate	ed depth of	complete	d well, _		144		547'	feet.	
13) Approx	imate trata	depths:	Fresh, _		3971		5 4 /*		/ NoXX/
(4) Approx	imate coal	seam dept	hs:		827	IS COB.	. sema minico in til	ALTERNATION OF THE PARTY OF THE	
15) CASING A	ND TUBIN	NG PROC	RAM			FOOTAGE IN	TERVALS	CEMENT FILLUT	PACKERS
CASING OR TUBING TYPE	i		Weight	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
	Star	Grade	per II.						Kinds
Conductor Fresh water	8 5/8	'_H40	24	XX		1280'	1280'	335 sx	Sirri
Fresh water Coal	,,_,,,								
Intermediate				-	-	2920'	2920'	1200' AS	REQUERED BY RULE 15.
Production	4 1/2		10.5	XX	-	7920	2900'		
Tubing	2"	J	4.5	1					Perforations: Top Bottom
Lim.									
	1								2860' 2866'
				1	1	L	1		ICT 1.4
-									
-						OFFICE USE	ONLY		
1						DRILLING PE	ERMIT		May 23 19 86
		47.00	5-108	8-F		A. Santa S.			
Permit number									Date
(200 std 4.00)	arina she	well opera	tor and w	ell loca	tion show	wn below is evidence	of permission gra	anted to drill in acc	ordance with the pertinent legal re-
quirements sub	ject to the	condition	a commune	-		mitted work	In addition, th	e well operator or h	ct Oil and Gas Inspector, (Refer to
No. 8) Prior to	the constru	ction of re	oads, local	actual	permitted	d work has commend	:ed.)		
district oil and	work is	described	in the No	tice and	Applica	tion, plat, and reclar	mation plan, subje	ect to any modificat	ions and conditions specified on the
The permitted reverse hereof.	WOLK IS 25	Mon	23, 19	988		inter in	ell work is commer	nced prior to that da	te and prosecuted with due diligence.
Permit expires		миу 2	40, 1			uniess w	II Commen		
			-	1	1.		D. CEP	Other	
Bond:	Age	st:	Plat:	Ca	sing	Fee WPC	义	ocne!	
	ALI	3	KS	LX	5	15412	NAD		
	17/01					C	V. 11 0.	touter he	y Y largant the
						_	14 m 11 - 11	everyion p	
NOTE: Kee		14. DA	100		a 4-110	location.	Director /	Division of	Oil and Gas File

Revised 6-07 Surface Owner Copy

1)	Date: S	eptembe	r 8, 2	2013		
2)	Operator's Well					
	Be	n C. Jack	man	No.6		
3)	API Well No:	47	-	095	-	1088
		Stata		County		Dormit

Notary Public, Storfficees vollnand Gas

Parkersburg, WV 26104 My commission expires June 11, 2020

DAWN WORKER KINBONN Intel Protection 377 Eastview Drive 0/25/2013

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

4)	Surface Own	ner(s) to be served:	, 5) (a) Coal	Operator:
	(a) Name	Louis Blattner	Name	NA
	Address	665 Fairmont Pike	Address	
		Wheeling, WV 26003		
	(b) Name	Donald E. Moore	(b) Coal	Owner(s) with Declaration
		HC 74, Box 94-B		
	Address		Name	NA
	4 4 2 4 7 7	Alma, WV 26320	Address	
	(c) Name	Charles A. Kocher		
	Address	74 Cloverdale Church Road	Name	
		Saint Marys, WV 26170	Address	
				NA
5)	Inspector	Joe Taylor	(c) Coal	Lessee with Declaration
	Address	497 Claylick Road	Name	Control of the second s
	riddress	D' 1 MAY OCOUT	Address	
	Talanhana	304-380-7469	Address	
	Telephone	304-380-7409		2-
	in the in Take no	in the work, and describes the we 2) The plat (surveyor's map) showing son you have received these documents is tructions on the reverse side. However, yet tice that under Chapter 22-6 of the West	ell and its location and the ng the well location on For that you have rights regar ou are not required to take Virginia Code, the unders	rm WW-6 Iding the application which are summarized any action at all. Iding the application which are summarized any action at all.
	of the O location Applicat	ffice of Oil and Gas, West Virginia Depa described on the attached Application an	rtment of Environmental I ad depicted on the attached gistered or certified mail o) on or before the day of r	Form WW-6. Copies of this Notice, the r delivered by hand to the person(s) named nailing or delivery to the Chief.
			Well Operator	Gastar Exploration, Ltd.
			D	M-0 0 Msc Miller Macon
			By:	Mus Vac Wike McCown
			Its:	COO & Designated Agent
			Address	229 W. Main St., Suite 301
				Clarksburg, WV 26301
			Telephone	(304) 622-4796
S		and sworn before me this //+/	Jay of 2	Peptinber, Received Notary Public 2020 OCT 2 2013
		My Commision Expires	June 11	2020
				OFFICIAL SEAL

SURFACE OWNER WAIVER

Operator's Well Number Ben C. Jackman No.6 47- 095- 1088

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.

I further state that I have no objection to the plan	anned work 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.	Teceiveu -
Meson Malter Date 9-17-13	•
/ ////// // Date /-/7-/3	Name
Signature	By 0C1 · 2 2013
gradient and the state of the s	Its Date

	Service Co.	12 18
Form	17/17	TO
L OLIII	VVV	

	Page	3	of	3
API 1	Number 47-	095		1088
Operator's Well No.	Ben C. Ja	ckman	No.6	

Notary Public State of West Virginia

Notary Public State of West Virg

Parkersburg, WV 26104 My commission expires June 11, 2020

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	kploration, Lt	d.		OI	Code	494487685
Watershed _	McElroy	Creek			Quadrangle	Shi	rley 7.5'
Elevation _	1149'	County	Tyler		District_	M	cElroy
Description of	anticipated Pit Waste:	Fluids enco	ountered in plug	gging subje	ect well		
	ate more than 5,000 bbls				Yes	No	X
	c liner be used in pit?	Yes	If so, what mil.	?10	20 MIL	+	
Proposed Dispo	Reuse (at A	cation nd Injection (UI PI Number	C Permit Number form WW-9 for dispo	osal location)			3
	m anticipated for this we If oilbased, what type? S used?			NA			
Drill cuttings d	lisposal method? Leave	in pit, landfill, r	emoved offsite, etc.		NA		
	If left in pit and plan to s Landfill or offsite name/			Cement, lim	e, sawdust	N	A
issued on Augusthat the provise applicable law I this application for obtaining the	certify that I understand ast 1, 2005, by the Office ions of the permit are entered or regulation can lead to certify under penalty of a form and all attachments information, I believe abmitting false information.	of Oil and Gas of orceable by law of orcement action that I have that thereto and that the information of the ormatical contents the or of the ormatical contents the organization of the	of the West Virginia v. Violations of any to etion. personally examined that, based on my in ation is true, accura	Department term or condi- d and am fam aquiry of those te and compl	of Environmental tion of the general ullar with the info e individuals imm ete. I am aware th	Protection permit a permation permat	on. I understand and/or other submitted on responsible
Company Off	icial Signature		Michael	Mic	on		
Company Off	icial (Typed Name)		Mike McCow	n			
Company Off	icial Title		COO & Desig	nated Age	nt		
Subscribed ar	nd sworn before me th	is 1144	_ day of	Septem	D.	otary Pr	ilived
My commission	on expires	June	11 20	20	0	07	
Form WW-9			/	C WEST	OFFICIA	LSEAL	2013

Legend

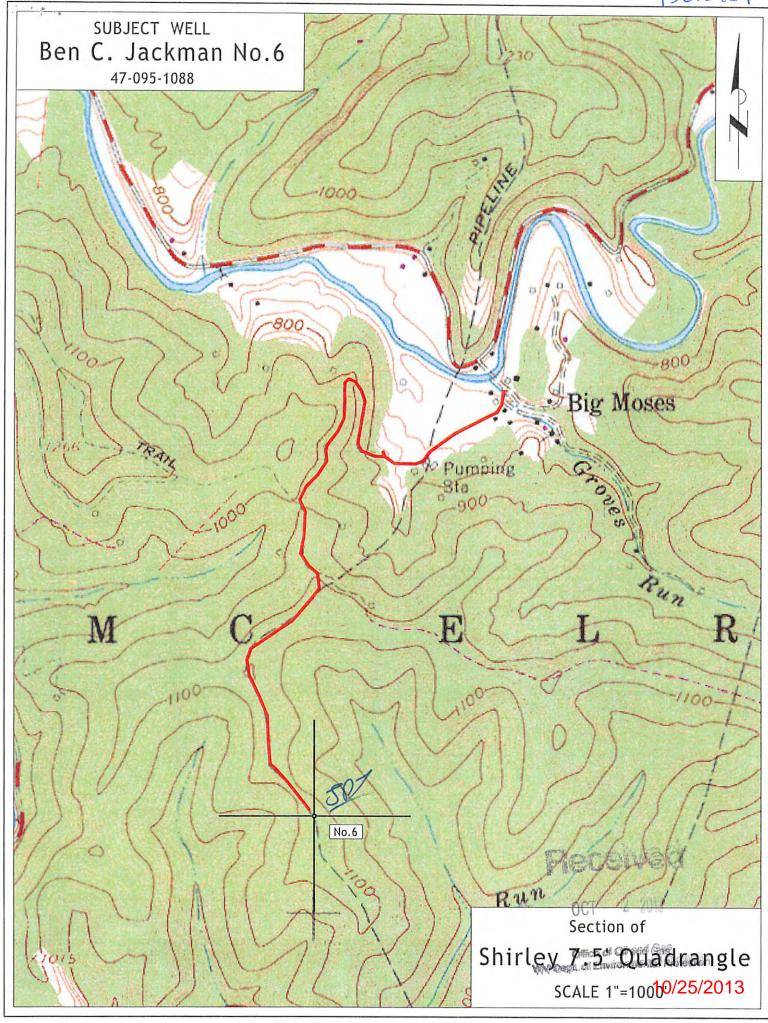
Property Boundary	A	Diversion	
Road		Spring	○ →
Existing Fence	—x——x—	Wet Spot	8
Planned Fence	// /	Drain Pipe	——————— —
Stream	1.7	Waterway	$\longleftrightarrow \longleftrightarrow \longleftrightarrow$
Open Ditch	—> —>	Cross Drain	
Rock	60000000000000000000000000000000000000	Filter Strip	XXXXXXXXX
		Pit: Cut Walls	
North	N	Dia Comment	
Buildings		Pit: Compacted Fill Walls	
Water Wells	W	Area of Land	
Drill Site	\oplus	Application of Pit Waste	
		Area I	
Proposed Revegetation	Treatment: Acres Disturbed App	orox. 0.2 Ac. Area II	Prevegetation pH
	Арр	orox. 0.1 Ac.	
	Lime 2 Tons/Acre	or Correct to pH	6.5
	Fertilizer (10-20-20 or Equivalent)	Lbs./Acr	e (500 lbs. Minimum)
	Mulch Straw 2 To	ns/Acre	
	SEED	MIXTURES	
_	Area I (Location)		Area II (Road)
Seed Type	Lbs/Ac.	Seed Ty	
Tall Fescue	40	Tall Feso	
Ladino Clover	5	Ladino C	Clover 5
			
Attach:			
	ation, pit and proposed area for land applic	cation	
	involved 7.5' topographic sheet.		
	Alpan		
Plan Approved by:	Mil		
Comments:			

Title: Inpatr.

Field Reviewed?

Date: 9-72-13

No



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47-	095 - 1088		WELL NO:	No.6	
FARM NAME:	Ben C. Jackman				
RESPONSIBLE PARTY N	AME: Gastar	Exploration, Ltd	I.		
COUNTY:	Tyler		DISTRICT:	McElroy	
QUADRANGLE:	Shirley 7.5'				
SURFACE OWNER:	Louis Blattner				
ROYALTY OWNER:	Louis Blattner et	al.			
UTM GPS NORTHING:	4,363,357	(NAD 83)			
UTM GPS EASTING:	517,953	(NAD 83) GI	PS ELEVATION:	350 m.	1149 1.
height abov 2. Accuracy to	D 1983, Zone:17 North, e mean sea level (MSL) - a Datum - 3.05 meters tion Method:	Coordinate Unit			
Survey Grade G	PS — Post Processed D Real-Time Differ		_		
Mapping Grade	GPS X Post Processed D Real-Time Differ	oifferential	X		
I the undersigned, hereby of belief and shows all the inf prescribed by the Office of	formation required by law	트라에 ())[[다양하다 하고 하는 보통]]			
Michael Mi Con	Mike McCown		COO & Desig	gnated Agent	
Signature		Ti	Rece	ived	
September 8, 201 Date	3	7	1 1000	IVUU	
2.			OCT 2	2013	



October 1, 2013

WVDEP-Office of Oil & Gas Attn: Mr. Jeff McLaughlin 601 57th Street SE Charleston, WV 25304

VIA USPS

Subject: Plugging Permit Applications, Tyler County, WV

Dear Jeff:

Enclosed herein for your review and further handling, please find Plugging Permit Applications for the M.W. Spencer well #'s 22 & 23 and the Ben C. Jackman well #'s 1 & 6, along with a check in the amount of \$400.00 for the pits associated with these wells.

If you have any questions or need additional information, please feel free to contact me at 304/966-0362.

Sincefely,

DAVE PERKINSON

Landman

Office of Oil and Gas WV Dept. of Environmental Protection

OCT 2 2013

Received

Gastar Exploration LTD.

229 West Main Street, Suite 301 · Clarksburg, WV 26301 Phone: (304) 622-4796 · Fax: (304) 622-4824