

EPHENS BLUEPRINT 2-2 (D) funnamed



IV-35 (Rev 8-81) FEB 1 9 1985

OIL & GAS DIVISION

DEPT. of MINES

State of Mest Airginia

Beparlment of Mines Gil und Cas Zivision

Date _{July} 19, 1984							
Operator's							
Well No. FC #84-18							
Farm	Norman Wade						
API No.	7 - 095 - 1084						

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas / Liquid Inje (If "Gas," Production / Unde	ection/Wasterground Storac	ce Disposal ge/ Deep	/ / Shai	llow <u>x</u> /)
Watershe	d Middle Islan	nd Creek		
District: Ellsworth County_	Tyler	Quadrangle	Shirley 75'	West Union 15'
OMPANY FRENCH CREEK DEVELOPMENT, INC.			- 61	Cement
ADDRESS P.O. Box 690 St. Marys, WV 26170	Casing	1	1	fill up
DESIGNATED AGENT W. T. ANDOFSON	Tubing	Drilling	in Well	Cu. ft.
ADDRESS RO. 8 OX 1690, St. MAKYS	Size 20-16			
SURFACE OWNER NORMAN WADE	- Cord			-
ADDRESS MINISTED OURNE, WV 2614	13-10"			
MINERAL RIGHTS OWNER See Attached Sheet	9 5/8			
ADDRESS	8 5/8	800	800	132 cu, ft.
OIL AND GAS INSPECTOR FOR THIS WORK Rober	-t_ 7			
Lowther ADDRESS Middlebourne, WV	5 1/2			
PERMIT ISSUED June 14, 1984	4 1/2	5990	5990	988 cu. ft
DRILLING COMMENCED 6-22-84				
DRILLING COMPLETED 6-26-84	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Marcellus	Shale	De	pth 5990	feet
GEOLOGICAL TARGET FORMATION	feet Rotary	/ Cab	le Tools	
Depth of completed well 5990 Water strata depth: Fresh 80			et -	
Water strata depth: Flesh	Is co	al being mi	ined in the	ne area? No
Coal seam depths: N/A				
OPEN FLOW DATA			45 458	70-4610 2- feet
Producing formation Alexander		Pay zone de	epui	0 Bbl/d
Gas: Initial open flow 64	Mcf/d Oil:	Initial op	eu irow	0 Bb1/6
Final open flow (15)	Mcf/d	Final open	IIOM	
mims of open flow between	en initial and	i final tes	ts 24	nours
Static rock pressure 2790 psic	g (surface meas	rement) ar	ter 12 r	in 25
(If applicable due to multiple con	mpletion)		348	1/ 36617_BALL
occination Speechl	y - Balltown	_Pay zone d	repu Corres	
o MCF Gas: Initial open flow 20	Mcf/d Oil:	Initial of	en flow_	BD1/
Final open flow (10)	_Mcf/d Oil:	Final oper	n flow	BD1/
mims of open flow betw	een initial ar	d final te	sts <u>24</u>	hours
Static rock pressure 950 psig	(surface measu	rement) af	ter	hours shut i
			* *	reverse sid

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

Perforated with 18 holes between 4570 and 4610. Stimulated with 500 gal., 15% HCL.

Fractured with 800,000 SCF N₂.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
nod Cray Soft	0	200	Fresh Water 80'
Shale, Brown, Red, Gray, Soft	201	205	Fresh Water
Sand	206	1610	
Shale, Sand, Siltstone	1611	1662	Some Gas
Big Lime	1663	1724	
Salt Sand	1725	1740	Some Gas
Silt Sand	i .	1765	Trace of Gas
Kenner S.S.	1741	1862	Trace Qf GAs)
Silt Stone, Salt Sand	1766	1880	
Injun	1863		show of Gas
Shale, Silt Stone, Salt Sand	1881	2060	
Shale, Silt Stown	2061		L'ess J. (And dol Pring
Gantz	2560	2578	Show of Gas
Shale, Gray, firm	2579	2601	. The second section is a second seco
50 Foot	2602	2621	
Shale, Gray, Firm	2622	2648	Trace of Gas
30 Foot	2649	2666	Trace of Gas
Shale	2667	2746	and the second of the second o
Gordon 2747	2756		
Shale	2757	3008	A Company of the Comp
Warrens	3009	3023	
Shale	3024	3468	Commission of the Commission o
Speechly	3469	3481	Gas
Shale	3482	3660	Gas
Balltown	3661	3684	Show of Gas
Shale	3685	4079	Show of Gas
Benson	4080	4092	Gas
	4093	4555	A CONTRACTOR OF THE CONTRACTOR
Shale	4556	4573	Some Gas
Alexander	4574	5230	
Shale 1	5231	5284	and the second s
Hamilton 7	5248	5605	
Shale	5606	5618	Gas, Show of Oil
Marcellus ?	5619	5990	000) 0.000
Shale	6100		
		+D DL.1	restrict @ TD
		5990	ophicula with
•		Gor	
	1	5290	

(Attach separate sheets as necessary)

FREUCH CREEK DEVELORMENT THE
Well operator to the
Date: (25 23, 1984)
Company of the second of the s

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 and the drilling of a well."

1)	Date: May 2		, 19 <u>84</u>		
2)	Operator's Well NoF.	.c84	#18		
3)	API Well No.	470	95 -	1084	
		State	Cou	inty	Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A C					/ TImdonomo		· · · · · · · · · · · · · · · · · · ·		
5) LOCATIO	N: Ele	vation:	700			/ Underground Watershade	storage	/ Deep	Shallow	/)
<i>J</i> , <u>J</u>	Dis	strict:	Ellswo	rth		County:	Tvler	Quadrangle: S	nirley 7½/W	est Union 1
6) WELL OP	ERATOR	Frenc	h Cree	k De	velop	ment. Inc	7) DESIGNATE	DAGENT W.T. A		
Address	s	P.0	Box 82				Address	P.O. B	ngerson — ox 82	
		St. M	arys,	WV 2	6170				rys, WV 2	6170
8) OIL & GA							9) DRILLING	CONTRACTOR:		
Name			Macon 1	Robert	Lowth	er	Name	Unknown		
Address	Middle	burn, W	N 73	58 -	476	4	Address		ichii.	1811
10) PROPOSE	ED WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	Stimu	X/1 3	1794
			Plug of	f old	formatio	n/ Perfo			^jun /1 3 1	(1)24
			Other p	hysical	change i	n well (specify)		OII	L CAS DI	IVISION
11) GEOLOGI	ICAL TAR	GET FOR	MATION	, <u>M</u>	arcel					
12) Estima	The state of the s		-			feet			T. OF	AIIIAE2
							t,			
				No	ne	Is co	oal being mined in th	ne area? Yes	/ No	XX/
15) CASING	AND TUBI	NG PRO	GRAM							
CASING OR TURING TYPE		SPEC	CIFICATION: Weight	3	_	FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACKE	ērs
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor			 				<u> </u>		Kinds	
Fresh water	-		<u> </u>			1	<u> </u>			
Coal	0 5 0		-					to surface		iouse N
Intermediate	8-5-8		 '	<u>X</u>		800	800'	1905	W00 =	18 hour
Production	41/2	ŖL	 	_X_		5990	5990	By rule 1501	Depths set	
Tubing	1		 			<u> </u>		-		
Liners	-		 				 	_	Perforations:	
		g meng gare	kwin in a		 				Тор	Bottom
								#		
and the second s		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>		l	
e de la companya de l		11	·			OFFICE USE	ONLY			
						DRILLING PE				
	47-0	95-10	٥,							
Permit number_		793-100	04							19 84
This permit cove	ring the we	il operato	or and well	locatio	an chown	below is suidenes	of manufacture	Date		
fantementa anole	er to me co	mainons (Contained	nerem a	ına on tn	e reverse nereot. Na	ntification must be a	ed to drill in accordance	and Car'lmana	4 (T) C
10. O/ A HULL TO E	ne tonsu ut	HUH UL IU	aus. Iucau	uns anc	i dus tor	any permitted work	t. In addition, the v	vell operator or his cont	ractor shall not	ify the proper
						vork has commence				
The permitted we everse hereof.	ork is as de	scribed in	the Notic	e and A	pplicatio	n, plat, and reclam	ation plan, subject	to any modifications an	d conditions sp	ecified on the
Permit expires _	June	13,	1986`			unless well	work is commence	d major to that days and		
						anicss wen	work is commence	d prior to that date and p	rosecuted with	due diligence.
Bond.	A	٠, ارم	Diet.	C						
Bond:	Agent	ا (ا د	Plat:	Casin	` <i>\</i>	Fee				
ALI		0 1,	nu '	اللح	41	262		00		
				(\mathcal{I}^{-}		-/ 1		K	
					/		Adm	inistrator, Office of O	and Gas	
NOTE: Keep o	ne copy of	this perm	it posted a	t the di	rilling loo	cation.			-	
		See	the reverse	gide o	f the AD	PLICANT'S COPY	for instructions 4-	the well assets		File_
		500		. side U	. une AF	LICANI S COPI	to manuchons to	the well operator.		