



State of West Virginia Division of Environmental Protection Section of Oil and Gas

ann n 1. 100h

APR 0 4 1333	- 4 04.	3		
Permitting Well Operator's Re	port of v	Well Work		
Porting & Garing a Date of the Carlotte	0	7.5	_	
Fa Office And & Gasumgardner, Mark & ETUX	Operator	MeTT No .: 1	1.BUMGARD	NER #1
LOCATION: Elevation: 1,233.00 Quadr	angle: Mo	OUNT CLARE		
District: ELK	C	ounty: HARRI	ISON	
Latitude: 8560 Feet Sout	h of 39	Deg. 12Min.	. 30 Sec	•
Longitude 3210 Feet West	of 80	Deg. 15 Mir	1. 0 Sec	٠
Company:PETROLEUM DEVELOPMENT COR -		5.		
103 E. MAIN ST P.O. BOX 26	Casing	l Heed in		I Comont
BRIDGEPORT, WV 26330-0026	& &	Used III	herc	Fill Up
	Tubing	Drilling	in Well	Cu. Ft.
Agent: ERIC STEARNS		· · · · · · · · · · · · · · · · · · ·		
Inchestor. MIN DENNIEMM	Size	*Balance		
Inspector: TIM BENNETT Permit Issued: 02/15/95	11 3/4"	22 '		
Well work Commenced: 03/01/95	11 3/4			
Well work Completed: 03/05/95			1	1
Verbal Plugging	8 5/8"	1020'	1020'	255 sks
Permission granted on:				-
Rotary Cable Rig Total Depth (feet) 4550'				
Fresh water depths (ft)	4 1/2"	4493 '	4493	560 sks
267 Salt water depths (ft)				
Is coal being mined in area (Y/N)? N		1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Coal Depths (ft): 58-60; 270-272		1		
			· — — — — — — —	
OBEN ELON BURN				
OPEN FLOW DATA				
Producing formation Benson		Pay zone d	denth (ft	1,202,420
Gas: Initial open flow soc MCF/	d Oil: I	nitial open	flow	Bb1/c
Final open flow 3147 MCF/	'd F	inal open fl	low	Bbl/d
Time of open flow between in	nitial and	d final test	- g	Hours
Static rock Pressure 550 psic	g (surface	e pressure)	after	Hours
Second producing formation Ke	ener	Pav zone d	denth (ft	11531-1541
Second producing formation Ker Gas: Initial open flow MCF/Final open flowco-mingled MCF/Time of open flow between in	d Oil: I	nitial open	flow	Bb1/6
Final open flowco-mingled MCF/	'd F	inal open fl	Low	Bbl/d
Time of open flow between in	nitial and	d final test	cs	Hours
Static rock Pressurepsic	g (surface	e pressure)	after	Hours
	Ag.			
NOTE: ON BACK OF THIS FORM PUT THE	FOLLOWING	G: 1). DETA	AILS OF P	ERFORATE
INTERVALS, FRACTURING OR STIMULATING,	PHYSIC	AL CHANGE,	ETC. 2).	THE WELI
LOG WHICH IS A SYSTEMATIC DETAILED	GEOLOGIC	AL RECORD (OF ALL FO	RMATIONS
INCLUDING COAL ENCOUNTERED BY THE WELL	BURE. S		Mallacon	

For: PETROLEUM DEVELOPMENT CORP.

Eric R. Stearns By: Date: March 24, 1995

Bumgardner #1

FORMATION

STAGE

lst Benson	13 (4392' - 4395	() 50	400 500 55
2nd Keener	20 (1531' - 1541	') 50	400 500
	WELL I	. O G	
	**		
			REMARKS: FRESH & SALT
FORMATION	TOP FEET BOTT	OM FEET	WATER, COAL, OIL & GAS
WD OF		1.0	
KB - GL	0 10	10 1406	Coal 58'- 60', 270'- 272'
sand, shale, RR Little Lime	1406	1433	hole damp @267'
sand, shale	1433	1465	Hote damp @207
Big Lime	1465	1520	
sand, shale	1520	1521	
Keener	1521	1574	gas chk @ 1567' 200/10 thru 2" w/water
sand, shale	1574	1576	
Big Injun	1576	1631	
sand, shale	1631	1854	gas chk @ 1658' 200/10 thru 2" w/water
Gantz	1854	1862	
sand, shale	1862	1888	gas chk @ 1936' 200/10 thru 2" w/water
50 ft	1888	1942	
sand, shale 30 ft	1942 1956	1956 1995	and oble 6 2020/ 150/10 three 28 colored
sand, shale	1995	2234	gas chk @ 2029' 150/10 thru 2" w/water gas chk @ 2120' 150/10 thru 2" w/water
4th	2234	2355	gas chr @ 2120 130/10 thitu 2 w/water
sand, shale	2355	2400	gas chk @ 2338' 200/10 thru 2" w/water
5th	2400	2435	840 0111 (1000 100) 10 0114 1 1, 1, 1, 1, 1
sand, shale	2435	2462	
Bayard	2462	2505	gas chk @ 2465' 200/10 thru 2" w/water
sand, shale	2505	2630	
Elizabeth	2630	2650	gas chk @ 2652' 200/10 thru 2" w/water
sand, shale	2650	2780	gas chk @ 2996' 200/10 thru 2" w/water
Speechly.	2780	3190	gas chk @ 3120' 200/10 thru 2" w/water
sand, shale	3190 3230	3230	
Balltown sand, shale	3615	3615 3650	gas chk @ 3497' 200/10 thru 2" w/water
Bradford	3650	3785	gas chk @ 4146' 200/10 thru 2" w/water
sand, shale	3785	4075	gas chk @ 4458' 200/10 thru 2" w/water
Riley	4075	4369	gas chk @ 4535' 200/10 thru 2" w/water
sand, shale	4369	4395	gas chk @ TD 200/10 thru 2" w/water
Benson	4395	4450	gas chk @ Collar 200/10 thru 2"w/water
	4450	4535	Drillers TD
	**		
		4550	Logger TD

80/100 SKS

PERFS

20/40 SKS ACID GAL

N2 (MCF)

033-4081 losued 02/15/95 Expres 02/15/97

FEB 0 9 1995 FORM WW-2B

STATE OF WEST VIRGINIA OF ENERGY, DIVISION OF OIL AND GAS

	Well Oper	ator:	Petroleum	Development	Corporation	38200 (5) 499
1	Operator'	's Well N	umber:^	I. Bumgardner	: #1	3) Ele	vation: <u>1,233</u> !
)	Well type	e: (a) 0	il_/	or Gas	<u>x</u> x/		
		(b) I	f Gas:		xx/ Undergr	ound Storage Shallow	
)	Proposed Target Formation(s): Benson Sand						
6)	Proposed Total Depth: 4,600! feet						
7)	Approxima	ate fresh	water s	trata dept	hs: 4401,	4851, 6551, 820	8,
8)	Approximate salt water depths: None Reported						
9)	Approximate coal seam depths: 5001-021, 6201-231 9551-571						
10)	Does lan	d contair	coal se	ams tribut	ary to act	ive mine? Ye	s/ No_XX/
11)	Proposed	Well Wor	:k: _{Dr}	:ill & Stimu	late new well		
12)					NG PROGRAM		
TYPE	y vagonnin kangadani i mahajiba Majilba ya 1618a h kaladahin 1666 da 1888 da	S	PECIFICAT	IONS	FOOTAGE II	TERVALS	CEMENT
4Pephilogosupras, galagi saskibi markibi.	Managanan pantahan menengan berantan menengan	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor	11 3/4"	H-40	42#	30.	Likeliki	regimen
Fres	h Water						
Coal					-	38681811. 2.	2),
Inte	rmediate	8 5/8"	H-40	20/23#	1,015'	38CSR18-11.3	DCS,
Prod	uction	4 12"	J- 55	10.5#	4,600'	38CGR10 11.2.2 4,600'	400 sks
Tubi					颅	38CSR18-11.1	
Line							
PACK		nd					
\	Si2	zes oths set					
1459	Fee(s)	/	Sh	on of Oil Work Permi	and Gas Use	Only lamation Fun	d WPCP
1 Coffee	Plat (WW-9	J ww	-2B	Bond Blin	(Type)	_ JEI Agen

	1 05	Environmental Protection	1 \	Date:
-	1 of WW2-A		2)	Operator's well number
	87)	FEB 0.9 1995	£ /	M. Bumgardner #1
-	Copy	-0 0.0 1000	3.1	M. Bumgardner #1 API Well No: 47 - 033 - 4081
116		Permitting		State - County - Permit
		Office of City Ca		
		Office of Oil & Gas	ATE OF WEST	VIRGINIA
		DEPARTMENT OF	ENERGY. DI	VISION OF OIL AND GAS
		NOTICE AND APP	PLICATION F	OR A WELL WORK PERMIT
		A 1 Marie Company of Control of C		The control of the co
4)				5) (a) Coal Operator:
				erName
	Address _	Rt. 1, Box 493		Address
		Mt. Clare, WV 2		(b) 0 = 1 0 = 1 (c) = i bb D = 3 = 1 bi c
				(b) Coal Owner(s) with Declaration
				Name
		.,		Address
	(c) Name	* -		Namo
	Address _			Name
				Address
6)	Inchactor	Tim Bennett	•	(c) Coal Lessee with Declaration
0)		737 Karl Stre		
	Address _	Worken MT	26452	Name Address
	Telephone	Weston, WV (304)-	2043/	
	10105		<u></u>	
		TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:
$\frac{XX}{Sect}$	Included ion 8(d) o I certify ve served mpanying o Pers Cert Publ	is the informa of the Code of that as requi copies of this locuments pages conal Service (ified Mail (Po ication (Notic	tion requirements west Virging red under (notice and 1 through Affidavit a stmarked poe of Publice and 1 through the contract of the red publice and the red publice	ostal receipt attached) cation attached)
fami atta resp is t	he terms a I certify liar with chments, a consible for rue, accur	and conditions y under penalty the information and that based or obtaining the cate, and compl	of any period of law the on submitted on my inquire informatets.	r 22B and 38 CSR 11-18, and I agree mit issued under this application. at I have personally examined and am d on this application form and all iry of those individuals immediately ion, I believe that the information
	. I am awa	e that there a	re signifi	cant penalties for submitting false
info	rmation	including the p	ossibility	of fine and imprisonment.
ارات <u></u> استهماهای کانگذاشت	NOTATION OF THE PROPERTY OF TH	: C: L: (5)	-	PETROLEUM Develpment Corporation
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	THE STATE OF	cassini } Its		Geologist
	175 AY 3 (P) TRUE 2/01		lress	P O Box 26
	alle geminaanni t	1257.130 GEV 7. AVAIL 5	anhana	Bridgeport, WV 26330
	والمستعالي والموجوب المراج	161	ephone	304-842-6256 TH day of FEBRUARY , 1995
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