

DEPT. OF ENERGY

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

₩ell Operator's Report of Well Work

Farm name: MOSSOR, KENNETH & LORENA Operator Well No.: T. BUTCHER #1

LOCATION: Elevation: 1018.00 Quadrangle: ELLENBORO

District: CLAY County: RITCHIE

Latitude: 13140 Feet South of 39 Deg. 22Min. 30 Sec. Longitude 11000 Feet West of 81 Deg. 0 Min. 0 Sec.

Company: PARDEE GAS COMPANY

4001 COLLEGE PKY. P.O. BX 4119 | Casing | Used in | Left | Cement

PARKERSBURG, WV 26104-4119	& Tubing	Drilling	in Well	Fill Up Cu. Ft.
Agent: LINDA CARPENTER	 Size			
Inspector: SAMUEL HERSMAN Permit Issued: 06/03/91 Well work Commenced: 6/5/91	8 5/8	1070	1070	336 cuft
Well work Completed: 6/19/91 Verbal Plugging Permission granted on:	4 1/2	4963	4963	258 cuft
Rotary X Cable Rig Total Depth (feet) 5014 Fresh water depths (ft) 35				
Salt water depths (ft)				
none reported Is coal being mined in area (Y/N)? N Coal Depths (ft): none reported				

OPEN FLOW DATA

Producing formation	Benson	Pay zone depth	(ft) 4851-4857
Gas: Initial open flow	250 MCF/d Oil	: Initial open flow	0 Bb1/d
Final open flow	100 MCF/d	Final open flow	0 Bbl/d
Time of open flow	between initial	and final tests	48 Hours
Static rock Pressure	700 psig (sur	face pressure) after	48 Hours
*		_	
Second producing forma	tion	Pay zone depth	
Gas: Initial open flow	MCF/d Oil	: Initial open flow	Bb1/d
		Final open flow	Bbl/d
Time of open flow	between initial	and final tests	Hours
Static rock Pressure		face pressure) after	

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	PARDEE GAS COMPANY
	n_{i}
	By: 4 dree on Shows a
	Date: 6.24.91

T. Butcher #1

65Q Foam FRac, Single Stage, Benson Formation

Shot 16 .39 holes from 4851 to 4857 and broke formation down at 1477 PSI using 500 gals of 15% FE Acid. Ran 40,000 lbs of 20/40 mesh sand at an average rate of 20 BPM with an average pressure of 1981 lbs. A total of 370,000 scf of nitrogen was used to attain a 65Q Foam Frac. ISIP was 1103 lbs and after 5 minutes 969 lbs.

Formation	Color	Hard/Soft	Тор	Bottom
rr & clay sand shale	gray gray	med	0 40	40 55 35 1/2-stream
yellow sand	yellow	hard	55	68
, shale	gray	soft	68	92
sand shale	gray	med	92	105
sand	brown	med	105	136
red rock	red	soft	136	147
sand shale	gray	med	147	265
sand	gray	med	265	319
sand shale	gray	med	319	361
red rock	red	soft	361	373
sand shale	gray	med	373	510
red rock	red	soft	510	640
sand shale	gray	med	640	720
red rock	red	soft	720	730
sand sahe	gray	med	730	980
shale	red	soft	980	1020
sandy shale	gray	med	1020	1060
sand	lt. gray	hard	1060	1080
shale	gray	med	1080	1648
sand lime	gray/white	hard	1648	1660
sandy shale	gray	med	1660	1843
lime	white	med	1843	1928
shale .	gray	soft	1928	1936
Injun sand	lt. gray	med	1936	2941
Poconó	gray	soft	2941	2250
sand shale	gray	med	2250	2700
sand shale	gray	med	2700	3150
shale	gray	soft	3150	3710
sand shale	gray	med	3710	3950
shale	gray	med	3950	4100
sand shale	gray	med	4100	5014

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FORM	WW-2B					sued Pa	age, of
		DEPART	STAT MENT OF I	TE OF WEST ENERGY, DIV	VIRGINIA VISION OF O	1 00 (1	03/91
			WELL WO	ORK PERMIT	APPLICATION	N Expues	06 103 193
1)	Well Ope	erator:_	Pardee	4568 Gas Compar	14 36880	(1) 3	37
2)	Operato	r's Well	Number:_	T. Butch	er #1	3) E	levation: <u>101</u> 8
4)	Well ty	pe: (a)	Oil_/	or Gas	5_X/		
		(b)	If Gas:		nUnderg: P/ 405	round Storac Shallo	
5)	Proposed	l Target	Formation	n(s):			
6)	Proposed	d Total D	epth:	5500	feet		
7)	Approxi	mate fres	h water s	strata depi	hs: 22	01	
8)	Approxim	mate salt	water de	epths:	none reporte	ed	
9)	Approxim	mate coal	seam der	oths:	none reporte	ed	
10)	Does lar	nd contai	n coal se	ams tribut	ary to act	ive mine? Y	es/ No_X_/
11)	Proposed	d Well Wo	rk:	Drill & Stimu	ılate new well		
12)			a) at	IG AND MUDI	Wa program		
		_			NG PROGRAM		
TYPE		<u>s</u> i	PECIFICAT	CIONS	FOOTAGE IN	VTERVALS	CEMENT
		Size	Grade	Weight per ft.		Left in well	Fill-up (cu. ft.)
Condu	ctor				·		
	Water	8 5/8	ERW	23#	1118	1118	by rule 38 CSI 18-11.2
Coal							
Inter	mediate						
Produ	ction	4 1/2	ERW	10.5#	5500	5500	by rule 38 CSF 18.11-1
Tubin	g						
Liner	s						
PACKE	RS : Kin						
		es ths set					
		F	or Diviso	n of Oil a	nd Gas Use	Only	
19	Fee(s) p					-	d WPCP
					ond CD		_ Agent
				— —		Type)	

Page 1	of			Date:		
Form W (09/87	/W2- <u>A</u> /)		2)	Operator T Rute	's well numbe cher #1	r
	•		3)	APT Well	No: 47 - C	85 - 8061
						inty - Permit
* .		· · · · · · · · · · · · · · · · · · ·		•		og rermie
		STATE OF DEPARTMENT OF ENERG		VIRGINIA VISION OF		
		NOTICE AND APPLICAT	ON F	OR A WELL	WORK PERMIT	
4) S	Surface O	wner(s) to be served Kenneth E. & Lorena D.	: Moss	5) (a) C	oal Operator:	
` A	ddress	Rt. 83 Box 57	111033	Address	N/A	
, -	Ellenbor	Rt. 83 Box 57 ro, WV 26346		Mudress .		
. 7	b) Name			(b) Coal	Owner(e) wit	h Declaration
À	ddress			Name	Owner(s) wit	n beclaration
				Address	N/A	
(c) Name					
A	ddress _			Name		
				Address		
6) I	nspector	Samuel Hersman Rt. 1 Box 240 Harrisville, WV 26362		(c) Coal	Lessee with	Declaration
A	ddress _	Rt. 1 Box 240		Name		
=		Harrisville, WV 26362		Address		
Т	elephone	(304)628-3185				
	•	TO THE PERSON(S) NAME	D AB	OVE TAKE I	NOTICE THAT:	
	•					
I	ncluded	is the lease or lease	s or	other con	ntinuing cont	ract or
contra	cts by w	hich I hold the right	: to e	extract of	il and gas OR	
	ncluded :	is the information re	guire	ed by Char	oter 22B. Art	icle 1,
Sectio	n 8(d) o:	f the Code of West Vi	rgin:	ia (see pa	age 2)	
T base	certify	that as required und	er Cl	hapter 221	3 of the <u>West</u>	Virginia Code
accomp.	anying do	copies of this notice ocuments pages 1 thro	uqh	on the	ion, a locatio e above named	on plat, and parties, by:
-	Perso	onal Service (Affidav	it at	ttached)		
	Cert:	ified Mail (Postmarke	d pos	stal recei	ipt attached)	t · · ·
	Publi	ication (Notice of Pu	blica	ation atta	ached)	
т	have re-					_
to the	terms ar	ad and understand Cha nd conditions of any	prer	22B and 3	38 CSR 11-18,	and I agree
· I	certify	under penalty of law	hermi	t issued	under this a	oplication.
familia	ar with t	the information submi	tted	on this	ersonally exa	amined and am
attach	ments, ar	nd that based on my i	nguia	v of thes	e individuals	simmediately
respons	sibte tor	coptaining the infor	matic	on. I beli	eve that the	information
is true	e, accura	ite, and complete.				
I	am aware	that there are sign	ifica	nt penalt	ies for submi	itting false
informa	ation, in	ictuaing the possibil	ity o	of fine an	d imprisonmer	nt.
		Well Opera	tor	Pardee G	as Company	
		By:	el M	~ Deves	· oc	
		Its:	perat	ions Manag	er	
		Address I			2610#	
		Telephone		burg, WV :	20104	
Subscr	ibed and	sworn before me this	304-	740-34/1	May	10.01
		See	_ 30_	_ day or _	ivid y	, 19 <u>91</u>
My com	mission e	Oxpires May 24 100				Notary Public