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DEPT. OF ENERGY

Farm name:

State of West Virginia DEPARTMENT OF ENERGY

Division of Oil and Gas

MOSSOR, KENNETH & LORENA Operator Well No.: T. BUTCHER #2

Well Operator's Report of Well Work

LOCATION:	Elevation:	1028.00	Quad	rangle: E	LLENBORO		
	District: Latitude: Longitude	CLAY 14680 Fee 11210 Fee	et Sou et Wes	Co th of 39 t of 81	ounty: RITC Deg. 22Min Deg. 0 Min	HIE . 30 Sec. n. 0 Sec	
Company:PAR 400	DEE GAS COM 1 COLLEGE P	PANY KY. P.O. I	вх 411	9 Casing	Used in	Left	Cement
	KERSBURG, W		4119	& Tubing	 Drilling		Fill Up Cu. Ft.
Agent: LIN	DA CARPENTE	R					
Permit Issu	SAMUEL HERS: ed: ommenced: 6	06/24/91		8 5/8	1063	1063	330 cuft
Well work C Verbal Plug	ompleted:	7/8/91		4 1/2	 5018	5018	258 cuft
Rotary X Total Depth Fresh water	granted on: Cable (feet) depths (ft	Rig 		 	 		
50'					 	 	
Is coal bei Coal Depths	ng mined in (ft):	area (Y/I	N)?_N				
OPÉN FLOW D	ATA			'			·
Gas: I	ing formati nitial open inal open f ime of open	$ \begin{array}{ccc} flow & 700 \\ low & 100 \end{array} $	MCF MCF	/d Oil: I: /d F	nitial open inal open f	$\begin{array}{ccc} ext{flow} & 0 \ ext{low} & 0 \end{array}$	Bbl/d Bbl/d
Static	rock Press	ure 700	psi	g (surfac	e pressure)	after	Hours
Gas: I	producing nitial open inal open f ime of open	flow low	MCF MCF	/d F	Pay zone on the control of the contr	flow low)Bbl/d Bbl/d Hours
Static	rock Press	ure	psi	g (surfac	e pressure)	after	Hours
INTERVALS, LOG WHICH	CK OF THIS FRACTURING IS A SYSTE OAL ENCOUNT	OR STIMU! MATIC DETA	LATING AILED	, PHYSIC.	AL CHANGE,	ETC. 2).	THE WELL
		For: P	State ARDEE	GAS COMPA	My Qu		
			<i>~</i>	,	^		

T. Butcher #2

Single stage, 65Q Foam Frac, Benson Formation

Shot 16 . 39 holes from 4906 to 4912 feet and broke formation down using 500 gallons of 15% FE Acid at a pressure of 1250 lbs. Ran 400 sacks of 20/40 mesh sand at an average rate of 20 BPM with an average pressure of 2300 lbs. A total volume of 322 bbls. and 355,000 scf of nitrogen was used to attain a 65 Q Foam Frac. ISIP was 550 lbs and after 5 minutes 453 lbs, 10 minutes 436 lbs.

Formation	Color	Hard/Soft	Тор	Bottom	
shale	yellow	soft	10	22	
sand shale	lt. gray	med	22	31	
sand & shale	lt. gray	hard	31	75	hole damp at 50
shale	red	soft	75	85	•
shale	gray	med	85	88	
sand	lt. gray	hard	88	103	hole wet at 90'
sand shale	gray	med	103	134	
red rock	red	soft	134	163	
sand shale	gray	med	163	350	
red rock	red	soft	360	440	•
sand shale:	gray	med	440	935	
red rock	red	soft	935	943	
shale sand	gray	med	943	1045	
red rock	red	soft	1045	1054	
shale	gray	med	1054	1428	
shale & sand	gray	med	1428	1606	
shale	gray	med	1606	1843	
Big lime	white	hard	1843	1960	
Injun	white/gray	hard	1960	2563	
shale & sand	gray	med	2563	2873	
Gordon	gray	med	2873	2905	
shale	gray	soft	2905	3250	
sand shale	gray	med	3250	3730	
shale	gray	med	3730	4330	
Ball Town	lt. gray	med	4330	4356	
shale	gray	soft	4356	4731	
Riley	gray	med	4731	4748	
shale	gray	soft	4748	4870	
sand shale	brown	soft	4870	4890	
shale	gray	med	4890	5041	TD

	47-095-8062
FOR	M WW-2B Pageof
	Page of STATE OF WEST VIRGINIA LOUGH OG/24/9/
	WELL WORK PERMIT APPLICATION Expuses 06/24/93
1)	Well Operator: Pardee Gas Company 36830 (1) 337
2)	Operator's Well Number: T. Butcher #2 3) Elevation: 102
4)	Well type: (a) Oil/ or Gas_X/
	(b) If Gas: Production
5)	Proposed Target Formation(s): Benson Shallow_79 435
6)	Proposed Total Depth: 5500 feet
7)	Approximate fresh water strata depths: 220'
8)	Approximate salt water depths: none reported
9)	Approximate coal seam depths: none reported
10)	Does land contain coal seams tributary to active mine? Yes/ No_X/
11)	Proposed Well Work: Drill & Stimulate new well
12)	
	CASING AND TUBING PROGRAM
TYPE	SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up
Conductor				•	rx. (-	38CS/A-143
Fresh Water	8 5/8	ERW	20#	1050	1050	by rule 38 CSR 18-11.2.√
Coal						
Intermediate						
Production	4 1/2	ERW	10.5#	5500	5500	by rule 38 CSR 18.11-1
Tubing					7	
Liners					MEG	ERWIEIN
PACKERS : Kin	d					
Siz Dep	es ths set _		· · · · · · · · · · · · · · · · · · ·		יוור ביה	24 1991
76	F) Diviso	n of Oil a	nd Gas Use	Only DEPARTM	N OF OIL & GAS MENT OF ENERGY

Reclamation Fund

Page	1	0	£.
Form	W	12	-A
(09/8	7	1	



Date:	6/19/91	
Operator'	s well number	
T. Butc	her #1	
ADT Well	No. 47 - 08	5 - 8062

State - County - Permit

DIVISION OF OIL & GAS

DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	Surface Owner(s) to be served: (a) Name Kenneth E. & Lorena D. Mosso Address Rt. 83 Box 57 Ellenboro, WV 26346	OName
	Address Rt. 83 Box 57	Address N/A
•	Ellenboro, WV 26346	11442 (35)
	(b) Name	(b) Coal Owner(s) with Declaration
•	Address	
	Addicas	Name
	(c) Namo	AddressN/A
	(c) Name	
	Address	Name
		Address
6)	Tanasahan Samual Hanaman	
0)	Inspector Samuel Hersman Address Rt. 1 Box 240	(c) Coal Lessee with Declaration
	Address Kt. 1 box 240	NameN/A
	Harrisville, WV 26362	Address N/A
	Telephone (304)-	
	TO THE PERSON(S) NAMED ABO	OVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
contr	acts by which I hold the right to ϵ	extract oil and gas OR
	Included is the information require	ed by Chapter 22B. Article 1.
Secti	on 8(d) of the Code of West Virgini	ia (see page 2)
•	I certify that as required under Ch	mapter 22B of the West Virginia Cod
I hav	e served copies of this notice and	application, a location plat and
accon	panying documents pages 1 through _	on the above named parties by:
	Personal Service (Affidavit at	tached)
	Certified Mail (Postmarked pos	
	Publication (Notice of Publication	ation attached)
	I have read and understand Chapter	22B and 28 CCD 11-18 and I acres
to th	e terms and conditions of any permi	it issued under this annihilation
	I certify under penalty of law that	to issued under this application.
famil	iar with the information submitted	. I have personally examined and am
attac	iar with the information submitted	on this application form and all
TACDO	hments, and that based on my inquir	y or those individuals immediately
ic	nsible for obtaining the information	on, I believe that the information
IS CI	ue, accurate, and complete.	
: _ e	I am aware that there are significa	ant penalties for submitting false
intor	mation, including the possibility o	of fine and imprisonment.
	Well Operator _	Pardee Gas Company
	By: /ksel/	in here or
		ons Manager
Maarine	B.L.P. State of West Virginiu	ox 4119
Notary	Debra Ann Martin	WV 26104
	4001 College Parkway Telephone	304-428-3471
Subse	Trespondancy amoun before me this 19	_day of, 19_9
My/com	mission expires May 24, 1999	
737	re son Maila	Notary Publi
Му со	mmission expíres <u>May 24, 1999</u>	