NEW MEXICO OIL CONSERVATION COMMISSION

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			MU	LTI	-POINT E	ACK PRES	SSURE TE	ST FOR GAS	S WELLS	R	levised 12-1-55	
Poo	Pool Eumont				Formation Yates				_County	Les	<u></u>	
Init	nitialAnnua			Spe			cialDat		Date of	Test_3-2	9 to 4-5-63	
Company Shell Oil Company Lease State "H" Well No. 4									4			
Unit Sec. 13 Twp_ 215 Rge. 35E Purchaser El Paso Natural Gas Company												
Casing 5 1/2" Wt. 15,5# I.D. 4.976 Set at 3767 Perf. 3310 To 3532												
Tubing <u>2" Wt. 4,7# I.D. 1.995</u> Set at <u>3244</u> Perf. <u>To</u>												
Gas Pay: From <u>3310 To 3532 L 3244 xG .673 -</u> GL 2183 Bar.Press. 13.2												
Producing Thru: Casing Tubing Type Well Single Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 4.1-57 Packer 3244 Reservoir Temp.												
OBSERVED DATA												
Tested Through (Broomen) (Shohen) (Meter) Type Taps Fige.											¢	
<u> </u>	(Heaters)	Gabo			Diff.	Temp.	1	g Data • Temp.	Casing D Press.	ata Temp.		
No.	(Line) Si∠e	(Orif Si	-	sig	h _w	° _F	psig	° _F .	psig	° _F . ∣	of Flow Hr.	
SI	······································					~	625				72	
1. 2. 3.	4	1.50			3.24		<u>606</u> 594	-	Packer		24	
3.	4	1.50		65	19.36	60	579				24	
4.	4	1.50	03	00	31.36	64	549			<u>├</u>	24	
		4			.				↓ ,,,,_,_,_,_,_,_,_,_,_,,	└╼╼╌╼┯╾┉╀╸		
	Coeffici	ent		Pressure		FLOW CALCULATI		Gravity	1 -		late of Flow	
No.	(24-Hou	r) -	√ h _w p _f	psia		Factor F _t		Factor ^F g	Factor F _{pv}		Q-MCFPD 15.025 psia	
1.	13.99		42.87		967.2	.977	<u> </u>	g	- pv		584.6	
2.	13,99		53.43		262.2	994	3	9442	1.026		719.9	
3.	13.99				278.2	1.000		.9442	1.029		997.8	
$\frac{1}{2}$ $\frac{3}{6}$ $\frac{4}{5}$	13.99		99.10		313.2	.996		.9442	1.034		1348	
					' PR	ESSURE C	A LOUT AT	TONS				
Gas L Gravi	Liquid Hydro ity of Liqui	carbon d Hvdro	Ratio	D	<u>Yy</u>	cf/bbl. deg.					ator Gas <u>.673</u> .ng Fluid Mone	
Fc	9.936		(l_e	-s)	.139		-	P _c	638.2	_P ²	407.3	
								-				
	Pw	Pt.			()2		- 2		_2 _2		_	
No.	Pt (psia)		F _c Q		(F _c Q) ²	$(F_cQ)^2$ (1-e^-s)		P _w 2	$P_c^2 - P_w^2$	Cal Pw		
1. 2.	619.2 383.4		5.808		39.73		689	388.1	19.2	622.9	97.6	
3.	<u>607.2</u> 592.2	368.7			<u>51,180</u> 98,287		114 662	<u> </u>	<u>31.5</u> 62.9	<u>613.0</u> 603.6		
4.	562.2	316.1		_	179.399	24.		341.0	66.3	583.9		
5. MCPPD: n file												
Absolute Potential: 4,400 MCFPD; n662 COMPANY Shell Oil Company												
ADDR	ESS	P.	0. Box	185	8. Rosse						······································	
AGENT and TITLE A. L. Ellerd - Gen Tester												
COMF	PANY				al Gas (VORDENIN						

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q I Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_w Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_f Meter pressure, psia.
- h_W Differential meter pressure, inches water.

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- FgI Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} : Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_+ .