NEW MEXICO CIL CONSERVATION COMMISSION

Form	C-122

Revised 12-1-55

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
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Pool	Bluitt San	ndres	Formati	on <u> </u>	an Andı	res	County	Roos	evelt
Initial	X	Annual		_ Spe	ecial		Date of	Test	8-10-64
	- HTA 011								
	C _Sec								
	<u>4</u> 글" Wt								
	2 3/8" _{Wt} .								
									ess. 13.2
D	a - There - C	leging		Tuhing		x Tvpe	Well	Singl	e
Date of	f Completion:	7-21-64	Pac	ker L-3	oc 435	3 Rese	rvoir Temp.		

OBSERVED DATA

2" & 4" Orifice well tester with a 0-50 psi recorder was used Tested Through (RManax)x(Oboixa)x(Oboixa)x(Typ

Flow Data				Tubing Data		Casing Data				
<u> </u>	(Prover)	(Choke)	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow
No.	(Line) Size	(Orifice) Size	psig	hw	° _F .	psig	°F.	psig	^{>} F•	Hr.
SI			1			1242		Pkr		
$\frac{31}{1.}$	0"		17		30	1205	70			
2.	<u>h</u> "	11	16		41	1035				3
3.	 L "	11	26		240	020	80	ļ	++	3
4.	 և "	2	13		40	835	80			24
5.								L		

FLOW CALCULATIONS

	Volumes from GOR Manual4-Hour)	√ ^h w ^p f	Pressure psia	Flow Temp. Factor Ft	Gravity Factor Fg	Compress. Factor F _{pv}	Rate of Flow Q-MCTPD @ 15.025 psia
1	615.1			1.0208	.8810	1.000	553
$\frac{1}{2}$	1261			1.0188	.8810	1.000	
	1710	<u> </u>		1.0198	.8810	1.000	1536
$\frac{3}{h}$	2100	+		1.0198	.8810	1.000	1887
4.							

PFESSURE CALCULATIONS

Jas Liquid	Hydrocarbon Ratio	None	cf/bbl.
Gravity of	Liquid Hydrocarbons		deg.
7	(1-e	-s)	

Specific Gravity Separator Gas <u>.773</u> Specific Gravity Flowing Fluid <u>None</u> P_c <u>1445.2</u> P²_c <u>2088</u>

Type Taps_

Pw $(F_cQ)^2$ $(1-e^{-s})$ $P_c^2 - P_w^2$ $(\mathbf{F_c}\mathbf{Q})^2$ P_W P_C BHP Cal. P_t^2 P_w^2 F_cQ No Р<u>.</u> xBoxx(psia) 114 1974 1405.2 335 1753 1324.2 650 1438 1199.2 1179 909 1086.2 59⁰ MCFPD; n_ Absolute Potential: 3100 BTA 011 Producers COMPANY 104 S. Pecos St., Midland, Texas ADDRESS AGENT and TITLE C. Allen Dorsey W1TNESSED_ COMPANY_ Sinclair

REMARKS

The volume for the 3rd rate was taken from a Texas Manual.

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 = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 6C^o F.
- P_c= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- ²w² Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- ²t² Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- h_w Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} : Supercompressability factor.
- r _ 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_t .

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