NEW MEXICO OIL CONSERVATION COMMISSION

Hoons office ecc

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool Report Formation Yetes - Seven Rivers County Lea													
InitialAnnual											5-29-56		
Company Chara Gil Company Lease Wilson State Well No. 1													
Unit Sec. 11 Twp. 218 Rge. 35E Purchaser Erec													
Casing 7 Wt. 20 I.D. 6.456 Set at 3806 Perf. To													
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3700 Perf. To													
Gas	Gas Pay: From 3766 To 3765 L 3700 xG .685 -GL 2535 Bar. Press. 13.2												
Pro	Producing Thru: Casing Tubing Type Well Single Single Bradenhead-G. G. or G.O. Dual												
Date of Completion: Packer None Reservoir Temp.													
OBSERVED DATA													
Tested Through (Prover) (Choke) (Meter) Type Taps													
		Flow Da		ata			Tubing	Data	Casing Data		T		
No	(Prover)	(Cho	oke)	Press.	Diff.	Temp.	Drogg	То-	Drago	m	ם ד	uration	
NO.	(Line) Size	Si	ize	psig	h _w	°F.	psig	o _F .	psig	[⊃] F.		of Flow Hr.	
SI		 					805		799			72	
1. 2. 3.	A	1.25	A	506	3.82	71	756		771			24	
2.		1.95			858	71	735		754			24	
3.		1.25	<u> </u>	615	6.552	72	695		732			24	
4. 5.	<u> </u>	1.25	<u> </u>	601	7.22	73	674		718			24/	
<u>5. l</u>		<u> </u>			L		A					Z	
FLOW CALCULATIONS													
	Coeffici	ent		Pr	essure	FI OW	Temp.	Gravity	Compre		Rate o	f Flow	
No.	***************************************					Fac	tor	Factor	Compress. Factor		Q-MCFPD		
	(24 - Hou	ur) $\sqrt{h_{W}}$		f	psia		't	$\mathbf{F}_{\mathbf{g}}$	Fpv		15.025 psia		
1.	9.643		93.78			.980	6	.9359	1.068		894.5		
2.	0.643		119.8			.989		9359	1.068		1143	4	
3。	9.613		164.1			988	7	.G359	1.072		1569		
4. 5.		9.643				987		.9359	1.079	\	1731		
<u> 5- 1</u>			181.3									<i></i>	
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Fc9.936 (1-e^-s)160 P_c 653													
	$P_{\mathbf{w}}$	ļ								1			
No.	(psia)	$P_{\mathbf{t}}^2$	Fc	Q	$(F_cQ)^2$	(F	(cQ) ² (-e ^{-s})	P_w^2	$P_c^2 - P_w^2$	Ca	w.	P _W P _C	
1. 2.	784.9	591						614.9	38.1	<u> </u>	95		
۲٠ ١	767.9	\$59.5						588.5	64.5				
3.	745.2	501.3	' !					555.3	97.7				
4. 5.	731.8	471.9						534.7	118.3	 		<i>7.9</i>	
Absolute Potential: MCFPD; n 587 COMPANY ADDRESS AGENT and TITLE WITNESSED MCFPD; n 587													
COM	PANY							- 					

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 \equiv Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw 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
- Pf Meter pressure, psia.
- hw= Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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_{+} .