LEW MEXICO OIL CONSERVATION COMMISSIÔN

HOBBS OFFICE OCC MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 1957 FEB 11 AM 10:01

Form C-122

Revised 12-1-55

Pool	Jalmat			F	ormation_	Yates	& 7 Riv	ers	County_	ios		
Initi	nitialAnnual_					Spec	al X		_Date of Test_1		1-19 to 11-23-56	
	ny En Pa											
Unit	p S	ec]	3 Twp	. <u>23</u>	8 Rge	36_1	Purcl	naser	l Paso Nat	ural G	LE Com	pany
Casing 51 Wt. 15.5 I.D. 8.076 Set at 2946 Perf. To												
Gas Pay: From 2916 To 3198 L 3176 xG .655 -GL 2080 Bar. Press. 13.2												
Producing Thru: Casing Tubing Type Well Single Single Bradenhead G. G. or G.O. Dual												
Direct of at a second												
Date of Completion: 5-5-51 Packer Nove Reservoir Temp.												
OBSERVED DATA												
Tested Through (Cheke) (Meter) Type Taps Flange												
Flow Data							Tubing		Casing D			
	(Prover)	(Che	191	Press	. Diff.	Temp.	Press.	Temmp.	Press.	Temp.		of Flow
No.	(Line) Size	(Orif	ice) ze	psig	h _w	\circ_{F} .	psig	o _F .	psig	[⊃] F•		H
SI					*		905		905			72
1.	Jı	1.50	2	634		70	842		853			24 24
2.	l4	1.50		624	16.81	98	805		821 799	 		24
3.		1.50		631	23.04	92	777 626	 	702	 	\\t	24
4.		1.50	<u> </u>	610	62.41	90	>	 				
						FLOW CAI	CULATION	S	Compre	255.	Rate o	of Flow
No.	Coefficient		Pr		ressure	Fac	Temp. Gravit		Factor		Q-MGRPD	
110	(24-Hour)		¬√ h _w p _f		psia	Fŧ		$^{ extsf{F}_{ extbf{g}}}$	^F pv	1	W/17.025 psia	
7	13.99		71.22			.9905		.9571	1.1	065	1,006	
2.	13.99		103.48			.9653		.9571		054	1,410	
3。	13.99		121.81			.9706		.9571		056	2.707	
1. 2. 3. 4. 5.	13.99		197.	18		.972	3	.9571		054		
5.1											194	
PRESSURE CALCULATIONS .												
Cas Liquid Hydrogarbon Ratio cf/bbl. Specific Gravity Separator Gas												
Specific Gravity Flowing Fluid												
may by of inquire nytrootics											<u> </u>	
Fc(1-e^-s)rc												
		,	 		[
No	$P_{\mathbf{W}}$	P	2 "	Q	(F _c Q) ²	2 (F_0)2	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	C	al.	Pw Pc
No.	P. (psia)	*t	, ,	c ·	(1.64)	(F _c Q) ² 1-e ^{-s})	W			P _w	Pc
1.	866.2	731.	1.					750.3	92.8			
2.	834.2	669						695.9	147.2			
3.	812,2	624	4		 			659.7	183.		-	
40	715.2	408	8	+	 			511.5		* 		
5.				 				Box				
	lute Poten	tial:	5,8		0 - 0	MCFPD	; n	.806				
COMF			084	7 281	Gas Co	WARY Marris		\				
	шээ IT and TITL	P _(E		2. 12) Mad		R. T.	dright -	Petroleum	Engine	or	
	ESSED	J	ck T.		lefield							
	OA NIV	_	D	Madas	mal Cam	MILETIMA						

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- $h_{\mathbf{w}}^{-}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.

El Paso Natural Gas Cu. . Shell State # 2 Sec. 13-1235-R36E Lea N.M. 11-23-56

