MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Four Lake	s Devoni	.n	Formation		Devonie	a	_County_	Lea	
Init	ial	<u> </u>	Annual		Spec	cial		Date of	Test	6-27-60
Comp	any <u>Humbl</u>	e 0 <u>il &</u>	Refining	Company	Lease	South Fo	ur Lakes	Wel	1 No	6
Unit Sec. 2 Twp 12-5 Rge. 34-E Purchaser El Paso Natural Gas Company										
Casi	ng OD	vt <u>264</u>	I.D	Se	t at 12	845 Pe	rf <u>1</u> 2	793	То	12,831
Tubing 2 QD Wt. 4.70 I.D. Set at 12,555 Perf. To Gas Pay: From 12,793 To 12.631 L 12.555 xG _GL Bar. Press. 13.2										
	ucing Thru									
Date	of Complet	tion:	5-7-59	Packe	r	Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or (3.0. Dual
						ED DATA				
Tested Through (Chene) (Meter) Type Taps Plange										
		Flo	w Data			Tubing	Data	Casing D	at.a	
No.	(Line)	(Orific	Press	Diff.	Temp.		Temp.	Press.		Duration of Flow
	Size	Size	* 1	h _w	°F.	psig		psig	[⊃] F•	Hr.
SI 1.	. 11	650	/00	02 00		1890				49:50
2.	<u> </u>	.750		25.00	8 2	86 7 890	80 85			23:10
3.	Zii	.750			- 36	1025	85			3:00
4.	A ^H	.750			81.	1051	79			2:00
<u>5. l</u>										
				τ	PT ON CAT	CIT A TTOM	,			
	Coeffici	ent	P	ressure	Flow CAL	CULATIONS Temp.	Gravity	Compre		Rate of Flow
No.				10000010	Fac	tor	Factor	Factor		Q-MCFPD
	(24-Hou	r) ₇ /	h _w p _f	psia	F.	t	$\mathbf{F}_{\boldsymbol{\sigma}}$	Fpv		@ 15.025 psia
1.	3.435		132.82	705.6	.9795		.8276	1.129		
1. 2. 3. 4.	3.435		119.54	705.6	.9777		.8276	1.121	1	415.5 372.4
3.	3.435		98.29	705.6	.9759		.8276	1.119	6	305.4
4.	3.435		34.53	705.6	.9804		.8276	1.124	9	108.3
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio 2568 cf/bbl. Specific Gravity Separator Gas 876 ravity of Liquid Hydrocarbons 60.3 deg. Specific Gravity Flowing Fluid 7389 c (1-e-5) Pc P ² c										
No.	P _w Pt (psia)	Pt ²	F _c Q	$(F_cQ)^2$	(F.	Q) ² e-s)	P _w 2	$P_c^2 - P_w^2$	Ca. P.	l. Pw Pc
1. 2.					4					
<u>3.</u>					- 				 	
4.									 	
5.									 	
COMPAI ADDRE:	SS and TITLE SSED	Humble MGNED. C. W	011 & Ref: 7. Hebbs.	Ining Con New Mexi RTH R. R Lcule ted	pany . Alward by L. W. pany	h, Distr	ict Super	rintendent		
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 \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
- 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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_t .

BOTTOM HOLE PRESSURE DATA

South Four Lakes Gas Unit Well #6

Points	BHP	(BHP) ²	(SIMP) ² -(F), EHP) ²	<u> </u>
Shut In	4961	24,612	•	•
1	3618	14,577	10,035	41.5.5
2	3863	14,923	9,689	372.4
3	4471	19,990	4,622	305.4
4	4760	22,658	1,954	108.3

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3.22x	30 ₄ 05	21.3577	3818	ī
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MULTINOS TANORITES PRUBBERS MAAR THIOGRAFIA

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Love you ME/SAA Soc. 2. Fell-3. Reda-3
County Las Souther Mass Medias
Sec. \$27-60

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