NEW MEXICO OIL CONSERVATION COMMISSION

HOSBS OFFICE OCC Revised 12-1-55

MULTI-POINT BACK PRESSURE TESTSFOR GAS WELLS

Formation Yates & 7 Rivers County 10 146

Poo	l Jalmat		F	Formation Yates & 7 Rivers				County 10 115				
Ini	tial	Ann	ual	Special XX				Date of Test 1-11/1-18-57				
Com	pany Ske	pany	Lease Sherrall				Well No. 3					
	t											
	ing 7"											
Tub	ing 2	wt. 4.7#	I.D	Set	t at	50' Pe	rf. 283	01	То	33001		
Gas	Pay: From	2834' To	34851	L_ _28	3 0x	G 01655		854	Bar.Pre	ss. <u>1</u>	3.2	
Pro	ducing Thru	: Casing_		Tul	oing <u>N</u>	<u> </u>	Type We	ll Sine	le .		3	
Date	e of Complet	tion: 3-19	40	Packer	r_2 800	51n	gre-Brade Reserve	ennead-G. oir Temp	G. or C	i.O. Di		
					OBSERV	ED DATA						
Tes	ted Through	(HAVAH)X	(COOPER)	(Meter)				Type Tap	s			
Flow Data						Tubing Data		Casing Data				
	(P	F.Tow 1	Press	Ditt	Temp.	Proce	Data	Press.	Tem	† ,	Ouration	
No.	(Line)	(Orifice)									of Flow	
SI	Size	Size	psig	h _w	o _F .	psig 582	*F.	psig	F.	72	Hr.	
	<u>L</u>	1.500	229	6.25	_11	433	 			24		
1. 2.		1.500	149	25.0	14	444	 		†	21		
3.	Ā	1.500	148	38.6	\$0	433				21		
4.	<u> </u>	1.500	163	68.0	55	365	1			21		
4. 5.												
		····				CULATION						
	Coeffici	ient	Pres		ssure Flow Temp. Factor						of Flow	
No.		\ /					Factor	Factor		Q-MCFPD		
	(24-Hoi	ır) $\sqrt{h_{i}}$	$p_{\mathbf{f}}$	psia	Ft		$^{ extsf{F}_{ extsf{g}}}$	F _p v		@ 15.025 psia		
1.	16.70	38.8	,	1,0188			3.9571	1.026		619		
1. 2.	16.70		63.64		1.0157	3.9571		1.016		1050		
3。	16.70	26.2			1.0098		0.9571	1.015			1131	
4.	16.70	110.			1.0048		0.951	1.016		1800		
3. 4. 5.												
rav	Liquid Hydro ity of Liqui 9.936	id Hydrocarl			cf/bbldeg.		Speci Speci	fic Gravi fic Gravi 5 95. 2	ty Flow	ving Fl		
	$P_{\mathbf{w}}$	T -		· · · · · · · · · · · · · · · · · · ·	- - - - - - - - - - 	 <u>-</u> - -		T	1			
No.	Pt (psia)	P_{t}^{2}	r _c Q	$(F_cQ)^2$	$(F_cQ)^2$ (1-e-s)		P_w^2	$P_c^2 - P_w^2$	Ca F	Cal. Pw Pc		
1.	546.2	298.3	5.45	41.6		4.9	303.2	51.1	1_			
2.	459.2	210.9	0.4	108.2		2.9	223.8	130.5				
	446.2		4.2	201.6	2	4.2	223.3	131.0				
	378.2	143.9	7.9	320.4	3	9.4	181.4	172.9	 			
5.		L		 			 	L	<u> </u>			
ADDI AGEI WITI		y 011 Compa	MY	140		n 0.8	54					
			· _ -		REM	ARKS						

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 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.
- $h_{\mbox{\scriptsize W}}^{-}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv 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 $P_{\rm t}$.

KELLY OIL CO. SHERRELL #3 6-25-37 Lea, N.M

