NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C=122

C: Revised 12-1-55

SILVIE A. UTZ

Pool	Jalmat			Fc	rmation	Yat	. 05		_County_	Lea		14
Initial Annual SpecialXX Date of Test 3-25/3-29-57												
Company Skelly Oil Company					Lease King "D"				Well No. 1			
Unit B Sec. 6 Two. 23 Rge. 37 Purchaser Kl Pase Natural Gas Company												
Casi	ng 7" W	it. 20 1	<u>#</u> I.I) ,	Set at2870' Perf.				To			
					Set at			PerfTo				
Gas Pay: From 2950 To 3485 L 2870 xG 0.650 _GL 1866 Bar.Press. 13.2												
Produ	ucing Thru:	Casi	ng	XX	Tu	lbi.ng	** - T	Type We	:11			
Producing Thru: Casing XX Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 7-23-50 Packer None Reservoir Temp.												
							ED DATA					
Teste	ed Through	(POXXX	GCXXCO		(Meter)				Type Tap	s		
			ow Dat				<u> </u>	ng Data Casing Data				
	CD-comment of the classical control of the cla			rose	Diff	Temp	Tubing	Data	Proces	Temp	Duration	
No.	(Line)	(Orifi	.ce)		,) On		On Temp.	Press.	Jamp.	,	of Flow
SI	Size	512	ie	psig	n _w	F.	psig	F'.	psig Súl	- F.	72	Hr.
1.	_ 4	1.500		763	16.0	82			76 8	 	24	
2.		1.500		745	22.1	68			755		24	
3.	<u> </u>	1.500		702	33.6	69			713	ļ	24	
4. 5.		1.500		680	41.0	68		 	692	 	24	
<u> </u>		<u> </u>		·····	L	L	ļ	1	l	<u> </u>	<u> </u>	
						FLOW CAL	CULATION	IS				
	Coefficient			Pr	essure	Flow	Temp.	Gravity	Compre	ss.	Rate o	of Flow
No.	(24-Hour) $\sqrt{}$			-		Fac	tor	Factor	Facto	r	Q-MCFPD	
			√ h _w pf	•	psia	F	't	${ t F}_{ t g}$	Fpv		@ 15.025 psia	
1. 2.	13.99		111.43		Ū .97 9		5	0.9608	1.072		1,573	
2.	13.99		129.40			0.992		0.9608	1.077		1,859	
<u>3. </u>	13.99			155.09		0.991			1.073		2,218	
3 c 4 • 5 •	13.99 168.		168.4		0,992		0.9608		1.069		2,402	
2.1												
					PR	ESSURE C	A COULATI	ONS				
					110			.0112				
	iquid Hydro								fic Gravi			
ravit	y of Liqui	d Hydro	carbor	rs	deg. S				ecific Gravity Flowing Fluid			
`c	0.4682		(1-	-e ^{-s})	0.120		-	^Р с—	877.2	_Pc	769.5	
	$P_{\mathbf{w}}$								1			
No.	* W	P _t .	F _c Q	1	$(F_cQ)^2$? (F	(Q) ²	$P_{w}2$	$P_c^2 - P_w^2$	Ca	1.	P_{w}
ļ	Pt (psia)	L	6			(1	-e ^{-s})	w		F	w	P. w Pc
1.	781 2	610.3	7	.36	54.1		.3	त्र. 8	152.7			
2.	781 - 2 768 - 2	590.1		.70	75.69			599.2	170.3			
<u>3. j</u>	726.2	527.4		.38	107.7			540.3	229.2			
4. 5.	705.2	1.97.3	+-11	.25	126.50	15.	2	512.5	257.0	- 		
									<u> </u>			
Absolute Potential: 4,950 MCFPD; n 0.665												
COMPANY Skelly Oil Company ADDRESS Box 38, Hobbs, New Mexico												
	r and TITLE		JD05,	HW M	SYTCO							
	ESSED	<u> </u>										
COMP												
						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 \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
- P_{f} 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 $P_{\mathbf{w}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{w}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.