NEW MEXICO OIL CONSERVATION COMMISSION

								• • •		Revised 12-1-55
_							EST FOR GAS			
Poc	ol Eumo	at		Formatio	n Que	ens Sand	<u> </u>	_County_	Lea	
Ini	itial		_Annual	<u> </u>	Spe	cial		Date of	Test_9	4 / 13-57
Con	npany <u>Sun</u>	Oil Com	pany		_Lease	W. M. N	eatherly	We]	L1 No	1
Uni	.t <u>K</u>	Sec1	7	21 S R	ge 37]	EPur	chaser	Permian I	asin Pi	peline Co.
	ing 7.0#									
	Tubing 2-7/8" Wt. 6.5# I.D. 2									
										ss. 13.2
D.1	ducing Thru	vas	1118 <u> </u>	1		Si	Iype we ngle-Brade	enhead-G.	G. or G	•0. Dual
Dat	e of Comple	tion:	5-14-30	Pack	er <u> </u>	8	Reservo	oir Temp.		
					OBSERV	VED DATA				
Tes	ted Through	(P	rr) (filma	cx) (Meter)			Туре Тар	os	Pipe
			low Data			Tubin	g Data	Casing I)ata	
No.	(Line)	(Orif	ice)			Press				Duration of Flow
	Size	Si	ze ps	sig h _w	°F.	psig	°F.	psig	°₽.	Hr.
SI								593.8		72 Hour SIP
1. 2.	<u>k</u> #	1.0		3.3 0.7	<u>81</u> 84	<u> </u>		583.6	╀───┤	24 Hours
3.	<u> </u>	1.0		5 3.3	78	<u>+</u>	+	568.3 524.7	+	24 Hours
4.	<u></u>	1.0		5.1 4.7	82			497.2	╉────┫	24 Hours 24 Hours
4. 5.					1					
					FLOW CAI		NS			
	Coeffic	ient		Pressure	the second s	Temp.	Gravity	Compress.		Rate of Flow
No.	(24-Hour)		/h ==			tor t	Factor	Factor		Q-MCFPD
			√ ^h w ^p f	psia			Fg	Fpv		@ 15.025 psia
1. 2. 3.	6.375		19.03	ļ	0.9804		0.9498		/	118
~•	6.375 6.375		39.99		<u>0.97777</u>		0.9498		<u> </u>	248
$\frac{2^{\circ}}{1}$	6.375		41.41	<u> </u>	0.9831		0.9498	1.049		259
4. 5.	- Bea/2		48.39		0.9795		0.9498		<u> </u>	300
rav	Liquid Hydro ity of Liqu 0,880	id Hydro	ocarbons	-	RESSURE C _ cf/bbl. deg.		Speci Speci	fic Gravi	ty_Flow:	rator Gas_ 0,665 ing Fluid 368.4
No.	Pt (psia)	Pt ²		(F _c Q) ²	(1	$\left[c_{e}^{Q} \right]^{2} = e^{-s}$	P _w 2	$P_c^2 - P_w^2$	Cal	W P _c
$\frac{1}{2}$	596.8 581.5	356.2	0.1038	0.0108	0.001		356.2	12.2	596.8	98
3.	537.9	289.3	0.2279	0.0476	0.006		338.1 289.3	30.3 79.1	581.5	
4.	510.4	260.5	0.2640	0.0697			260.5	107.9	510.4	
5.										
	olute Potent				MCFPD;	n	0.80			
	PANY RESS	<u>Sun O</u>	11 Compan							
AGE	NT and TITL	E CR	Lauren	llas, Tex	ls er					
WILL	NRODRD									
COM	PANY									
					REM	ARKS				

Tests were run by Permian Basin Pipe Line Company

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 Bax 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = ctual rate of flow at end of flow period at W. H. working pressure (P_W). CF/da. @ 15.025 psia and 60° F.
- P_c: 2 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- P_w tatic wellhead working pressure as determined at the end of flow period. Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt lowing wellhead pressure (tubing if flowing through tubing, casing if lowing through casing.) psin
- P_f deter pressure, psia.
- hw= Differential meter pressure, inches water.
- FgI gravity correction factor.
- Ft lowing temperature correction factor.
- F_{pv}-Supercompressability factor.
- n _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 .



G1 350 = 5-41/ () G 130 - 11 - 04: 2.2 - 125

