NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool Name	Formation Cusen					County Les				
Initial 👱		Special			Date of Test 6-24-28-57					
Company Culf Oil Corporation		I	Lease	Render	Ransay MAII		l No	17		
Unit J Sec. 27 Twp. 218 Rge. 36E Purchaser 1 Pero Natural Gas Co.										
Casing5.5	Wt. <u>14</u> I	.D. <u>5.01</u>	2 Set	at_390)0 Pe	rf <u>309</u>	5	Го 3	246	
Tubing 2.375	wt. <u>4.7</u> I	.D, 1.99	5 Set	at_38	50 Pe	rf		ľo		
Gas Pay: From	3095 To_	3246	_L 30	95 _x	G		2058 I	Bar.Pres	s. 13.2	
Producing Thru: Casing Tubing Type Well G. C. Dual Single-Bradenhead-G. G. or G.O. Dual										
Date of Completion: 7-26-56 Packer 3750 Reservoir Temp.										
				OBSERV.	ED DATA					
Tested Through (Proves) (Obste) (Meter) Type Taps										
	Flow Data			Tub			Casing Da	Data		
*Decore			Diff.	Temp.		Temp.			Duration	
No. (Line) Size	(Orifice) Size	1 1	h	o _F .	nsiø	° _F ,	psig	o _P .	of Flow Hr.	
SI	1 5120	1			1018		1041		72	
1. 4	1.75		5.29	76			1008		24	
2. A	1.75	552 573	9.0	75 71			931		24,	
4. 4.	1.75	594	25.0	75		<u> </u>	890		21,	
4. <u>4</u> . <u>5</u> .										
FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow										
Coeffic:	Lent	Pressure		Fact	tor	Factor	Compress. Rate of Q-MCFPI			
(24-Ho	ır) ¬/ hw	√h _w p _f psia		F.				@	15 .0 25 psia	
1. 19.2	7 54.	54.09 553.2		.9850		F _g	1,053		1027	
2. 19.2	7 72.	71.31 565.2		.98	59	.9498	1.056		1359	
3. 19.2		3.19 607.2		.98		,9498 ,9498	1.057		1993 2354	
1. 19.2 2. 19.2 3. 19.2 4. 19.2	1 123	47 0	77.6%		77	4/4/0				
			PRE	SSURE C	ALCU ATI	ONS				
Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas										
Gravity of Liquid Hydrocarbons deg. Specific Gravity							y Flowin	ng Fluid		
c 1,712	(1-e ^{-s})	0.13	<u> </u>		^Р с——	1054.2	- ^{Pc}	44440	
龙	 			1				 		
No •	$P_{\mathbf{t}}^2$ F	_c Q	$(F_cQ)^2$	(F	$c^{Q})^{2}$	P_w^2	$P_c^2 - P_w^2$	Cal		
Pt (psia)	1042-8	1.798	3,090	(T	_e-s)	1043.2	68.1	Pw	r _c	
1. 1021,2 2. 999,2	978.4	2.327	3,41		714	999.1	112,2			
3. 944.2	892.5	3.412	11,64	1,	536	893.0	218,3			
4. 903.2 5.	81.5.8	4.030	16,24	2.	244	817.9	293.4	 		
Absolute Porential: 5.000 MCFPD: n 0.56										
COMPANY Gulf Gil Corporation										
ADDRESS Box 2167, H. bbs., New Process										
AGENT and TITLL WITNESSED	1.2	Smith								
COMPANY										
	REMARKS									

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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.

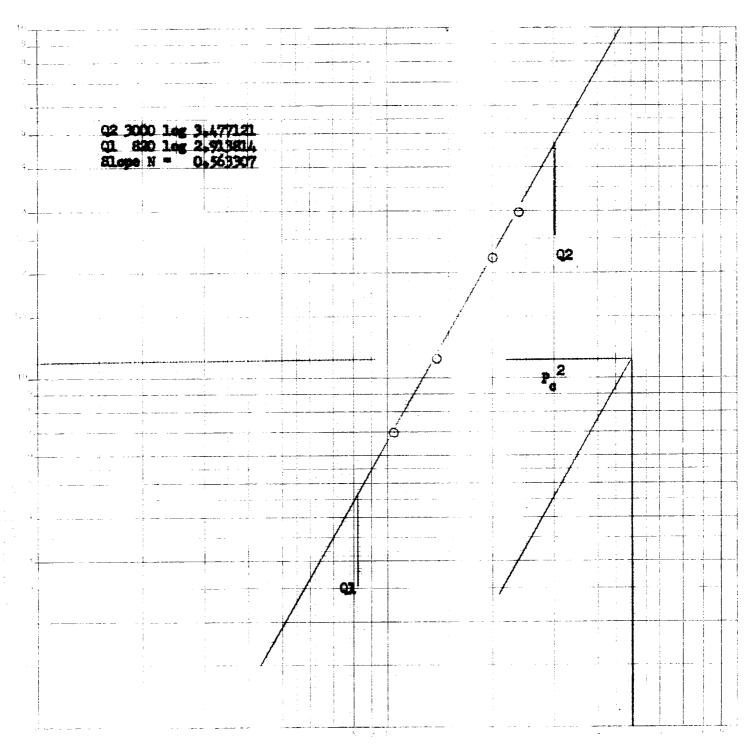
The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q I Actual rate of flow at end of flow period at W. H. working pressure (P_W) . MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- Pw Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_f Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- F_{g} Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv 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 $P_{\mathbf{t}}$.

Gulf Oil Corporation
W. A. Ramsay "A" No. 17
J-27-215-36E, Lea Co., N.M.
Eumont Pool
June 28, 1957
A. P2 = 5,000 MCF



Q in MCF Per Day