NEW MEXICO OIL CONSERVATION COMMISSION OBBS OFFICE OCC Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 11 AM 10 Revised 12-1-55

Poc	el Eusen	t		Fc	Formation SR-Q				CountyLea				
					X Special								
Company Amerada Petroleum Corp. Lease Gaither Well No. 1 Unit I Sec. 34 Twp. 195 Rge. 36E Purchaser Pemian Basin Pipeline Co.													
Casing 6-5/8" Wt. 20.0# I.D. 6.049" Set at 3819' Perf. 3425' To 3720'													
Tubing 3-1/2" Wt. 9.3# I.D. 2.995# Set at 3930' Perf. 3927' To 3930'												····	
	Gas Pay: From 3425' To 3720' L 3425' xG 0.690 -GL 2363' Bar. Press. 13.2												
Producing Thru: Casing X Tubing Type Well G.O. Dual Single-Bradenhead-G. G. or G.O. Dual Parks of Completion: 5.15.54													
Packer 3856 Reservoir Temp. 800													
OBSERVED DATA													
Tested Through (Meter) Type Taps Pipe													
Flow Data						1	Tubing Data		Casing Data				
No.	(Prover)				Diff.	Temp.	Press.	Temp.	Press.			Duration	
_	(Line) Size		fice) ize		$\mathrm{h}_{\mathbf{W}}$	°F.	ps ig	°F.	psig	°F∙		of Flow	
SI									844.0		/13-	1/2 lira.	
1.	4.00	2,00		457.6		86			727.1		23-	1/2/Hra.	
2 . 3.	4.00	2.00		460.7		67			682.5	/	24	Hrs.	
<u>ر.</u> 4.	4.00	2,00		460.0		73			653.1		24	/ Hrs.	
5.	4.00	2,00		457.8	40.0	71			405.0		24	/ Hrs.	
	Cooffic	: a=#					CULATIONS						
No.	(24-Hour)				1		- :	•	- , -				
					- psia						Q-MCFPD @/15-025 psia		
1.						F ₁		Fg	Fpv				
2.	29.92				70.8	0.9759		0.9325	1.04		1957		
3.	29.92				73.2	0.9933		0.9325	1.0				
4.	29.92				71.0	0.9896		0.9325	1.050		351 425		
4. 5.			147.2			V		WARJES .		<u> </u>	442		
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid													
c1.399 (1-e ⁻⁵) 0.150 P _C 857.2 P ² C734.8													
CO ₂ 2.43% N ₂ 0.78%													
_ [$P_{\mathbf{w}}$	2			,_ ,2		.2		2 0			The same of the sa	
No.	Pr (nain)	Pt ²	Fc	4	$(F_cQ)^2$	(F	Q) ²	P _w 2	$P_c^2 - P_w^2$	Ca	r.	Pw Pc	
- 	Pt (psia)	KIA A	- 	726	7 (4	(T-	-e⁻U		.	P	v	/	
1. 2.	695.7	548.0		738	7.497	1.1		549.1	185.7	741.0	 /	0.86	
3.	666.3	444.0	150		19.340	3.6	20	488.9	287.2	669.0	- i/-	0.63	
3. 4. 5.	618.2	382.2	5.		35,500	5.3		387.5	347.3	622.5		0.78	
5.													
Absolute Potential: / 7774 MCFPD; n 0.83													
COMP				oleum	Corpora		\0.03	+					
ADDR		Drawe	D -	ommen	New	Mexico			00			~	
AGENT and TITLE V.G. Appost - Dist. Engineer W.S. Child													
WITNESSED_ B.L. West													
COMP	ANY	F	elegal de	Basin	Pipe L								
_		_				REMA	RKS					1:	

Due to this being a retest, the test will be submitted with an average slope drawn through the data paints.

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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.