

N MEXICO OIL CONSERVATION COMM: ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

DATE OF TEST: 8-2-67

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-2-67	
Company Amerada Petroleum Corp.		Connection Amerada Petroleum Corp.	
Pool Moore		Formation Wolfcamp	
Completion Date 7-31-67	Total Depth 10,671'	Plug Back TD 8592'	Elevation 4351' DF
Farm or Lease Name C. W. Robinson		Well No. 2	
Csg. Size 5-1/2"	Wt. 17.0#	d 4.892	Set At 10,658'
Perforations: From 8257' To 8426'		Unit H	
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 8204'
Perforations: From Open To Ended		Unit 23	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 8142'	
Producing Thru Tbg.		Baro. Press. - P _g 13.2	
Reservoir Temp. °F 147° @ 8130		Mean Annual Temp. °F 60°	
County Lea		State New Mexico	
L 8130	H 8130	G _g 0.750 est.	% CO ₂ N.D.
% N ₂ N.D.	% H ₂ S N.D.	Prover 2" Orifice Well Tester	Meter Run 2" Orifice Well Tester
Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in Hg	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1960	75	Packer		72
1.	2 x 1-1/4				13	70	1050	75			6
2.	2 x 1-1/4				19	70	940	75			2.5
3.	2 x 1-1/4				27	70	770	75			2.5
4.	2 x 1-1/4				35	70	690	75			2.5
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	581.5			.9905			576.0
2	723.2			.9905			716.3
3	893.3			.9905			884.8
4	1051.0			.9905			1041.0
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.75	535	1.26	0.675	54.4 Mcf/bbl.	54.0 Deg.	0.750 est.	0.803	665 P.S.I.A.	424 R
2.	1.57	535	1.26	0.707						
3.	1.39	535	1.26	0.742						
4.	1.35	535	1.26	0.751						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	1130	1162	1350	2507
2	908	1044	1090	2767
3	613	922	850	3007
4	494	900	810	3047
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.266$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.318$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.266$

Absolute Open Flow 1,318 Mcfd @ 15.025	Angle of Slope θ 45°	Slope, n 1.000
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Remarks: **Bottom hole pressures were measured with an Amerada gauge at 8130'.**

Approved By Commission:	Conducted By: D. Rutherford	Calculated By: K. A. Wagner	Checked By:
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