

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
HOBBS OFFICE O. C. C.

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date JUN 6 11:27 AM '67 6-1-67	
Company Amerada Pet. Corp.		Connection Amerada - Warren	
Pool Hightower		Formation Pennsylvanian	
Completion Date December 31, 1949		Total Depth 10,620'	Plug Back TD 8585'
Elevation 4249'		Farm or Lease Name B. C. Roach	
Csg. Size 5-1/2"	Wt. 17#	d 4.892	Set At 9475'
Perforations: From 8510' To 8540'		Well No. 1	
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 8585'
Perforations: From 8581' To		Unit Sec. Twp. Rge. L 26 12-S 33-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 8481'	
Producing Thru Tubing		County Lea	
Reservoir Temp. °F 142° @ 8571'		State New Mexico	
Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 8581'	H	Gg 0.680	% CO ₂ 0.18
% N ₂ 3.7		% H ₂ S 0	
Prover Orifice Well Tester		Meter Run Orifice Well Tester	
Taps			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	4" x 2"		
2.	4" x 2"		
3.	4" x 2"		
4.	4" x 2"		
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI			
1.	1290	60°	1.5
2.	970	60°	1.75
3.	770	60°	1.5
4.	700	60°	1.5
5.	630	60°	
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI			
1.			
2.			
3.			
4.			
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1			
2			
3			
4			
5			
NO.	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv
1			
2			
3			
4			
5			
NO.	Rate of Flow Q, Mcfd		
1			
2			
3			
4			
5			
NO.	P _t	Temp. °R	T _f
1			
2			
3			
4			
5			
Gas Liquid Hydrocarbon Ratio 137 Mcf/bbl.		A.P.I. Gravity of Liquid Hydrocarbons 62.3 Deg.	
Specific Gravity Separator Gas		X X X X X X X X	
Specific Gravity Flowing Fluid		X X X X X	
Critical Pressure P.S.I.A.		P.S.I.A.	
Critical Temperature R		R	
P _c 1739 P _c ² 3024			
NO.	P _t ²	P _w	P _w ²
1			
2			
3			
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.698$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.585$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,344$ Mcf			
Absolute Open Flow 3,344 Mcfd @ 15.025 Angle of Slope 490 Slope, n 0.869			
Remarks: The P_c and P_w valves were measured directly with a bottom hole pressure gauge located at 8571'.			
Approved By Commission:		Conducted By: Don Rutherford	Calculated By: John H. Swendig
		Checked By:	