

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 10-12-67	
Company Amerada Petroleum Corporation		Connection Amerada Petroleum Corporation	
Pool Moore Field		Formation Wolfcamp Zone	
Completion Date 10-6-67		Total Depth 8600'	Plug Back TD ---
Elevation 4338'		Farm or Lease Name State M'A"	
Csg. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 8594'
Perforations: From 8133' To 8250'		Well No. 3	
Tbg. Size 1-1/2"	Wt. 2.9#	d 1.610	Set At 7981'
Perforations: From Open To Ended		Unit Sec. Twp. Rge. M 24 11-S 32-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual (Separate strings of casing)		Packer Set At ---	
Producing Thru Tubing		Reservoir Temp. °F 141° @ 7970'	Mean Annual Temp. °F 60°
Baro. Press. - P _g 13.2		State New Mexico	
L 8133'	H 7981'	G _g 0.71	% CO ₂ 0.3
% N ₂ 1.0	% H ₂ S 0.4	Prover 2"	Meter Run Taps
Pipe			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1310		-	
1.	2" x 1.25			1655	5"	60	1230		-	2hr. 35min.
2.	2" x 1.25			1477	20"	60	1090		-	1hr. 30min.
3.	2" x 1.25			1248	38"	60	880		-	1hr. 30min.
4.	2" x 1.25			1135	45"	60	760		-	1hr. 30min.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.31	91.3	1668.2	1.0	1.187	1.223	1366
2	10.31	172.6	1490.2	1.0	1.187	1.204	2544
3	10.31	218.9	1261.2	1.0	1.187	1.172	3140
4	10.31	227.3	1148.2	1.0	1.187	1.155	3213
5.							

NO.	P _r	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	2.49	520	1.33	0.669	dry	dry	0.71	XXXXXXX	671	391
2	2.22	520	1.33	0.690						
3	1.88	520	1.33	0.728						
4	1.71	520	1.33	0.750						
5.										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1341.2	1.799	1.799	1702.4	1.797	1.431
2	1.546	1.243.2	1.546	253		
3	1.217	1.103.2	1.217	582		
4	798	893.2	798	1001		
5	598	773.2	598	1201		

Absolute Open Flow		4,493	Mcfd @ 15.025	Angle of Slope	31° 26'	Slope, n	.611
Remarks:							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
		D. Rutherford		F. A. Bowling			

A. ADA PETROLEUM CORPORATION
 State M'A" No. 3
 Unit M, Sec. 24, T-11-S, R-32-E
 Lea County, New Mexico
 October 12, 1967

