

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 12-20-73	
Company Amini Oil Co.,				Connection None			
Pool So. Salt Lake				Formation Morrow		Unit S.	
Completion Date 12-20-73		Total Depth 13860		Plug Back TD 13748		Elevation 3626 GL	
Csg. Size 5 1/2		Wt. 17-20		Set At 13860		Perforations: From 13,106 To 116	
Tbg. Size 2 7/8		Wt. 6.40		Set At 13,050		Perforations: From Open To End	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 13,050	
Producing Thru Tubing		Reservoir Temp. °F 170 @ 13,000		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 13,116		H 13,106		Gg .646		% CO ₂ % N ₂ % H ₂ S Prover	
						Meter Run 3"	
						Taps Flg.	

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							5505	30		
1.	3"		1.75	580	5.5	50	4995	45	Pkr.	
2.	"		"	600	18.0	52	4510	50		
3.	"		"	610	35.0	52	3955	55		
4.	"		"	620	47.0	50	3308	57		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	15.87	57.1192		1.010	1.244	1.072	1218
2	"	105.0599		1.008	"	1.072	2241
3	"	147.6888		1.008	"	1.074	3156
4	"	172.5120		1.010	"	1.074	3694
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>11.6</u> Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons <u>53°</u> Deg. Specific Gravity Separator Gas <u>.646</u> Specific Gravity Flowing Fluid <u>X X X X X</u> Critical Pressure _____ P.S.I.A. Critical Temperature _____ R
1.					
2.					
3.					
4.					
5.					

P _c <u>5518.2</u>	P _c ² <u>30,450</u>				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{2.071}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.980}$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{6248}$
1		5008.2	25082	5368	
2		4523.2	20459	9991	
3		3968.2	15747	14703	
4		3308.2	10945	19505	
5					

Absolute Open Flow <u>6,248</u> Mcfd @ 15.025	Angle of Slope <u>43</u>	Slope, n <u>.956</u>
Remarks: _____		
Approved By Commission 	Conducted By: C. Allen Dorsey	Calculated By: C. Allen Dorsey
Checked By: _____		