

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

Form C-122
Revised 9-1-62

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 12-27-73		JAN 2 1974	
Company: Mobil Oil Corporation						Connection: Llano, Inc.		O. C. C.	
Pool: Carlsbad, South						Formation: Morrow		Unit: ARTESIAN OFFICE	
Completion Date: 10-12-73		Total Depth: 12,050		Plug Back TD: 11,922		Elevation: 3244 G.L.		Farm or Lease Name: Federal MM Comm.	
Csg. Size: 7"	Wt. 26#	Set At: 6.276	Set At: 12,048	Perforations: From 11,658 To 11,878		Well No.: 1			
Teg. Size: 2 3/8"	Wt. 4.6#	Set At: 1.995	Set At: 11,651	Perforations: From - To -		Unit: F	Sec.: 13	Twp.: 23S	Rge.: 26E
Type Well: Single - Bradenhead - G.C. or G.O. Multiple: Single						Packer Set At: 11,634		County: Eddy	
Production: Tubing		Reservoir Temp. °F: 180 - 12,050		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico	
L: 11,651	H: 11,768	Gg: 0.5854	% CO ₂ : 1.14	% N ₂ : 0.33	% H ₂ S: -	Prover: -	Meter Run: 3"	Taps: Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	3"	X	1 1/2"	930	16	69	1000	60	0	-	24 hr
2.											
3.											
4.											
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	11.13	122.85	943.2	.9915	1.307	1.072	1899
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	Z	Gas Liquid Hydrocarbon Ratio	3165 Mcf/bbl.
1				A.P.I. Gravity of Liquid Hydrocarbons	50.0 Deg.
2.				Specific Gravity Separator Gas	0.5854 XXXXXXXXX
3.				Specific Gravity Flowing Fluid	XXXXX
4.				Critical Pressure	676 P.S.I.A. 676 P.S.I.A.
5.				Critical Temperature	351 R 351 R

NO.	P _i	P _w	P _c ²	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							
2							
3							
4							
5							

Absolute Open Flow		Mcf @ 15.025	Angle of Slope @	Slope, n
Remarks: <i>Test submitted in lieu of four point GAOF. The well's tubing pressure of 1000 psi with 24/64" choke and 930 psi line pressure will not furnish latitude for a significant valid test. Fluid production was 0.6 bbl condensate & 30 bbls water</i>				
Approved By Commission:	Conducted By:	Calculated By:	Checked By:	
	J. C. Gordon Jr	A. R. Alameddine	J. C. Gordon Jr.	