

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

Form O-132
Revised 9-1-65

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APR 23 1974

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4/9/74	
Company MOBILE OIL CORPORATION		Connection LLANO INC	
Field SOUTH CARLSBAD		Formation MORROW	
Completion Date 1-7-74		Total Depth 12,200'	
Plug Back TD -		Elevation 3176 G.L.	
Form or Lease Name STATE RPR		Unit 320	
Comp. Size 7	Wt. 26 1/4	Set At 6,276	Perforations: From 11950 To 11960
Trg. Size 2 1/2	Wt. 46 1/4	Set At 11,945	Perforations: From 26 To
Type Well - Single - Broadhead - G.G. or G.O. Multiple SINGLE		Packer Set At 11920	
Producing Thru TUBING		Reservoir Temp. °F 198 @ 12,200'	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO		County EDDY	
L 11945	H 11955	G _g 5222	% CO ₂ 1.19
% N ₂ 28	% H ₂ S -	Prover -	Meter Run 4"
Taps FLANGE			
FLOW DATA			
NO.	Prove Line Size	X	Orifice Size
SI			
1.	4 x 1.750		720
2.	4 x 1.750		812
3.	4 x 2.500		850
4.	4 x 2.500		820
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	3490	60	
	3240	60	
	2765	60	
	2000	60	
	1620	60	
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
Duration of Flow 52 9/16 HRS			
24 HRS			
24 HRS			
24 HRS			
24 HRS			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	14.93	85.62	735.20
2	14.93	207.14	225.20
3	32.64	142.25	843.20
4	32.64	172.55	833.20
5			
	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}
	1.0000	1.3029	1.0612
	0.9258	1.3029	1.0612
	0.9258	1.3029	1.0635
	0.9258	1.3029	1.0639
Rate of Flow Q, Mcfd			
	1.782	21220	6314
	7214		
Gas Liquid Hydrocarbon Ratio 241.22 Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons 52.50 Deg.			
Specific Gravity Separator Gas 0.524 XXXXXXXXXX			
Specific Gravity Flowing Fluid XXXXX 1.60			
Critical Pressure 6.75 P.S.I.A. 676 P.S.I.A.			
Critical Temperature 35.7 R 353 R			
P _c P _w F _w ² P _c ² - P _w ²			
NO.	P _c	P _w	F _w ²
1	10573	3276	10693
2	2712	2283	2283
3	4298	2356	5553
4	1067	1727	3192
5			
(1) $\frac{F_c^2}{P_c^2 - P_w^2} =$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10,877$			
Absolute Open Flow 10,877 Mcfd @ 15.025			
Angle of Slope 47.739 Slope, n 0.877			
Remarks: 46" IS CALIBRATED BY MOBILE COMPUTER PROGRAM AT 7100 - 401500			
G.P.'S CELL AOF CALCULATION			
Approved By Commission:		Conducted By: A.R. PLAMEDDING	
Calculated By: K. J. LEWIS		Checked By: J. E. CAMPBELL	