

File
125 file

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-2-77		RECEIVED			
Company MESA PETROLEUM COMPANY ✓					Connection AIR		MAY 19 1977			
Well Buxton Flat morrow Underground					Formation MORROW		Unit O.C.C.			
Completion Date 3-8-77		Total Depth 11475		Plug Back TD 11428 11475		Elevation 3227 Gr.		Farm or Lease Name HONDO STATE Com		
Casing Size 5.50"		Casing Weight 17.00#		Set At 4.892" 11475		Perforations From 11048 To 11203		Well No. 1		
Tubing Size 2.875EUE		Tubing Weight 6.50#		Set At 2.441" 10987		Perforations From To		Unit Sec. Twp. Rge. F 32-205-28E		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single Completion					Packer Set At 10987		County EDDY			
Producing Thru Tubing		Reservoir Temp. °F 194		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEX		
L 11126		H 11126		G _g 0.592		% CO ₂ 1.17		% N ₂ 1.49		
				% H ₂ S 0.00		Prover X		Meter Run X		
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.
1.	3.00		1.38	440	7.00"	77	3000	70		
2.	3.00		1.38	450	13.00"	64	2600	70		
3.	3.00		1.38	450	22.00"	78	2140	70		
4.	3.00		1.38	450	39.00"	78	1660	70		
5.										
RATE OF FLOW CALCULATIONS										
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d			
1.	9.25	56.324	453.20	0.9840	1.3000	1.0330	688			
2.	9.25	77.599	463.20	0.9962	1.3000	1.0430	969			
3.	9.25	100.948	463.20	0.9831	1.3000	1.0330	1233			
4.	9.25	134.405	463.20	0.9831	1.3000	1.0330	1641			
5.										
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ None Produced _____ Deg. Specific Gravity Separator Gas _____ 0.592 _____ X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X _____ 0.592 Critical Pressure _____ 670 _____ P.S.I.A. _____ 670 _____ P.S.I.A. Critical Temperature _____ 350 _____ R _____ 350 _____ R					
1.	0.68	537	1.53	0.932						
2.	0.69	524	1.50	0.922						
3.	0.69	538	1.54	0.931						
4.	0.69	538	1.54	0.931						
5.										
P _r 3631.2 P _c ² 13186					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.27363$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2736$					
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2090$					
1.		3014.2	9085	4100						
2.		2617.4	6851	6335						
3.		2157.9	4657	8529						
4.		1683.1	2833	10353						
5.										
Absolute Open Flow _____ 2090 _____ Mc/d @ 15.025					Angle of Slope @ _____ 45.00		Slope, 1.000			
Remarks:										
Approved By:			Computed By:			Calculated By:			Checked By:	