

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

Form C-127
 Revised 9-1-85

RECEIVED

C/SF C-122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-30-81		DEC 15 1981	
Company MESA PETROLEUM CO.				Connection UNCONNECTED		O. C. D.	
Well UNDESIGNATED ABO				Formation ABO		ARTESIA, OFFICE	
Completion Date 9-30-81		Total Depth 3550'		Plug Back TD 3469'		Elevation 4408'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 3548'		Perforations: From 2976' To 3120'	
Tub. Size 2 3/8"		Wt. 4.7#		Set At 2862'		Perforations: From OPEN ENDED To	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 100 @ 3550'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 2862		H 2862		G _g .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
Prover 2" ORIFICE WELL TESTER				Meter Run Taps			

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.	Temp. °F	
SI							885		885		72 HR SI
1.	2" ORIFICE	1 1/4	7	-	74		320	84	310		1 HR
2.	WELL										
3.	TESTER										
4.											
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, Mgd
1	612	2" ORIFICE WELL		.9868	.9608		580
2		TESTER					-
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/Gal.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____ X X X X X X X X	
2.					Specific Gravity Flowing Fluid _____ X X X X X	
3.					Critical Pressure _____ P.S.I.A.	P.S.I.A.
4.					Critical Temperature _____ R	R
5.						

P _c 898 P _c ² 806		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1481$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1481$	
NO.	P _w	P _w ²	P _c ² - P _w ²		
1	323	104	702		
2					
3					
4					
5					

Absolute Open Flow 660		Mold @ 15.025		Angle of Slope 45°		Slope, n 1	
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Remarks: UNABLE TO RUN FOUR FLOW RATES DUE TO LOW DELIVERY OF WELL. ASSUMED n = 1 AND BASED CALCULATIONS ON ONE POINT TEST.

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: E. L. BUTTROSS, JR.	Checked By:
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