

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

Form C-122
 Revised 9-1-79

RECEIVED

DEC 15 1981

Type of Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-29-81		DEC 15 1981	
Company MESA PETROLEUM CO. ✓		Connection UNCONNECTED		O. C. D.	
Field UNDESIGNATED ABO		Formation ABO		Dist. ARTESIA, OFFICE	
Completion Date 10-29-81		Total Length 3500		Flag back To 3399	
Casing Size 4 1/2		Set At 10.5#		Elevation 4006	
Well Size 2 3/8		Set At 4.7#		Perforations From 2962 To 2972	
Type Well - Single - Fractured - G.G. or G.O. Multiple SINGLE		Perforations From OPEN ENDED To		Well No. 6	
Producing Zone TUBING		Reservoir Temp. °F 100 3500		Unit J	
L 2852		Gg 2852		Sec. 4	
R 2852		Gg .65		Temp. 8S	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Rate 23E	
% CO ₂ 1		% N ₂		County CHAVES	
% H ₂ S		Previor		State NEW MEXICO	
2" ORIFICE WELL TESTER		Motor Run		Date	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Previor 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	
1.	2" ORIFICE	3/4	20			70	750		740		24 hr. SI
2.	WELL						200	80	270		1 hr.
3.	TESTER										
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super. Compens. Factor, Fpv	Rate of Flow Q, Mgd
1	375	2" ORIFICE WELL		9905	.9608		357
2		TESTER					
3							
4							
5							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2										
3										
4										
5										

P ₁ 753	P ₂ 567	(1) $\frac{P_1^2}{P_2^2 - P_1^2} = 1.1643$	(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1.1643$
NO.	P ₁	P ₂	P ₁ ² - P ₂ ²
1	283	80	487
2			
3			
4			
5			

Assumed n=1 and based calculations on one point test.	Rate of Flow = 415	Angle of Dip = 45°	Depth = 1
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Approved By: JAMES CRAIG	Checked By: E.L. BUTTROSS, JR.	Date: 11-3-81
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