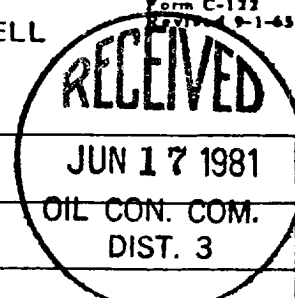


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 1-7-79 10-1-85



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-9-81	
Company MESA PETROLEUM CO.			Connection EL PASO NATURAL GAS CO.			
Pool PLANO PO			Formation DISTURBED CLIFFS		Unit U	
Completion Date 6-1-81		Total Depth 3510.		Plug Back TD 3429.		
Elevation 4432.		Farm or Lease Name JONES FEDERAL				
Csg. Size 4.500 WL 10.5 d 4.052 Set At 3472.		Perforations: From 3241. To 3299.		Well No. 2		
Tbg. Size 1.900 WL 2.8 d 1.410 Set At 3421.		Perforations: From 0. To 0.		Unit Sec. Twp. Rge. 10-22N-11W		
Type Well - Single - Fractured - G.G. or G.O. Multiple FLOWING					Packer Set At 0.	
Producing Thru TUBING		Reservoir Temp. °F 110.0 3241.		Mean Annual Temp. °F 60.0		
Baro. Press. - P _a 12.2		State NEW MEXICO				
L 3279.	M 3241.	G _g 0.673	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.	
Prover 0.		Meter Run 0.		Taps 0.		

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	Duration of Flow
SI							950.	74.			142.0
1.	1.61 X 0.750		140.	0.	76.	140.	76.	0.	0.	0.	2.0
2.											
3.											
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, Mcfd
1	12.94	0.	152.2	0.9850	1.2190	1.0148	2029.
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	2.23	588.	1.41	0.971	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ 0.673
3.					Specific Gravity Flowing Fluid _____ 0.673
4.					Critical Pressure _____ 669. P.S.I.A.
5.					Critical Temperature _____ 381. R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0190}{0.0000}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0000}{0.0000}$
1	23.	420.	177.	354.		
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2490.$			
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Absolute Open Flow _____ 2490. Mcfd @ 15.025	Angle of Slope @ _____ 52.1	Slope, n _____ 0.750
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Remarks: _____			
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Approved By Commission:	Conducted By: C. James	Calculated By: Garrett-AOF Program	Checked By: <i>John V. Bata</i>
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