

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-11-81	
Company MESA PETROLEUM CO.			Connection EL PASO NATURAL GAS			
Pool BASIN DAKOTA			Formation DAKOTA		Unit D	
Completion Date 4-28-81		Total Depth 7253.	Plug Back TD 7250.	Elevation 6370.	Farm or Lease Name FEDERAL	
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 7250.	Perforations: From 7231. To 7053.		
Thq. Size 2.063	Wt. 3.2	d 1.751	Set At 6880.	Perforations: From 0. To 0.		
Type Well - Single - Brdenhead - G.C. or G.O. Multiple FLOWING				Packer Set At 6486.	County SAN JUAN	
Producing Thru TUBING		Reservoir Temp. °F 180.0 7142.	Mean Annual Temp. °F 60.0	Baro. Press. - P _g 12.2	State NEW MEXICO	
L 7142.	H 7142.	G _g 0.673	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.	
Prover 0.		Meter Run 0.		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							1908.	34.			168.0
1.	1.75 X 0.750			160.	0.	38.	160.	38.	0.	0.	3.0
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.22	0.	172.2	1.0218	1.2190	1.0215	2459.
2.							
3.							
4.							
5.							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.26	498.	1.31	0.958	0.	0.
2.						
3.						
4.						
5.						

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1	30.	337.	310.	3477.
2				
3				
4				
5				

(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.0001$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 2622.$

(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.0001$

Absolute Open Flow	2622 Mcfd @ 15.025	Angle of Slope @	50 1	Slope, n @	750
--------------------	--------------------	------------------	------	------------	-----

Remarks:

Approved By Commission:	Conducted By: J. L. Archer	Calculated By: Garrett-AOF Program	Checked By: John Benton
-------------------------	-------------------------------	---------------------------------------	----------------------------