

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

File 122 Form G-122 Revised 9-1-65

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To show corrected formation

DEC 21 1979

☒ Initial ☐ Annual ☐ Special		JAN 11 1980		Test Date 12/12/79		MESA-PDD	
Company MESA PETROLEUM				O.C.D.			
Pool <i>Undesignated Atoka</i>				Formation Artesia Office Air			
Completion Date 10/9/79		Total Depth 9554		Plug Back TD 9474		Elevation 3498 GL	
Csg. Size 5 1/2		ID 17		Set At 9554		Perforations From 9051 To 9157	
Tq. Size 2 3/8		ID		Set At 8981		Perforations From To	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8981		County EDDY	
Producing Thru TBG.		Reservoir Temp. °F 164° 8981		Mean Annual Temp. °F 60*		State NEW MEXICO	
L 8981		H 8981		Gg .747		% CO2 .618	
				% N2 4.249		% H2S	
				Prover		Meter Run 4"	
						Taps FLG.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2675				72 HR.
1.	4 X 1.000			505	2.0	72	2380	55			1 HR.
2.	4 X 1.000			505	3.75	100	2040	61			1 HR.
3.	4 X 1.000			510	6.875	119	1680	64			1 HR.
4.	4 X 1.000			516	13.0	121	1090	63			1 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compens. Factor, Fpv	Rate of Flow Q, M/d
1	4.753	32.19	518.2	.9887	1.180	1.045	187
2	4.753	44.08	518.2	.9636	1.180	1.038	247
3	4.753	59.97	523.2	.9477	1.180	1.033	329
4	4.753	82.94	529.2	.9460	1.180	1.033	455
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio dry Mcf/Sbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1.	.77	532	1.46	.916		
2.	.77	560	1.53	.928		
3.	.78	579	1.59	.938		
4.	.79	581	1.59	.937		
5.						

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.204$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.193$
1	2393.4	5728.3	1498.1			
2	2053.6	4217.2	3009.2			
3	1694.0	2869.8	4356.6			
4	1105.9	1223.0	6003.4			
5						

Absolute Open Flow 543 Mcf @ 15.025 Angle of Slope 46.5 * Slope, n 951

Remarks:

RE: TUS MEC SWH LMC CTH OYM FILE WIDOWHUR 12-26-79

Approved By Commission:	Conducted By: JOHN DAVIS	Calculated By: LARRY DAVIS	Checked By:
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