

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-18-78		SEP 22 1978	
Company MESA PETROLEUM COMPANY ✓						Connection AIR		O. C. C. ARTESIA, OFFICE	
Pool Mesa Morrow						Formation MORROW		Unit #	
Completion Date 8-14-78		Total Depth 8638		Plug Back TD 8541		Elevation 3674 RKB		Farm or Lease Name Lincoln St. Com.	
Csg. Size 4 1/2	Wt. 11.6	d	Set At 8638	Perforations: From 8497 To 8513		Well No. #1			
Tbg. Size 2 3/8	Wt. N-80	d	Set At 8447	Perforations: From To		Unit H	Sec. 24	Twp. 18	Rge. 24
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 8447		County EDDY	
Producing Thru TBG.		Reservoir Temp. °F 160 ° PERFS.		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 8447	H 8447	Gg .671	% CO ₂	% N ₂	% H ₂ S	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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2470				72 HRS.
1.	4 X 2.000			530	2.0	112	2100				1 HR.
2.	4 X 2.000			505	3.6	103	1910				1 HR.
3.	4 X 2.000			500	7.2	87	1490				1 HR.
4.	4 X 2.000			500	12.0	81	765				1 HR.
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	19.81	32.96	543.2	.9535	1.221	1.043	793
2	19.81	43.19	518.2	.9610	1.221	1.044	1048
3	19.81	60.79	513.2	.9750	1.221	1.048	1502
4	19.81	78.48	513.2	.9804	1.221	1.050	1954
5							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.81	572	1.50	.919	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.77	563	1.47	.918	Specific Gravity Separator Gas .671 _____
3	.77	547	1.43	.910	Specific Gravity Flowing Fluid _____ X X X X X
4	.77	541	1.42	.907	Critical Pressure 669 _____ P.S.I.A.
5					Critical Temperature 382 _____ R

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.131$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.098$
1		2116.9	4481.3	1685.0		
2		1930.3	3726.2	2440.1		
3		1522.5	2317.9	3348.4		
4		846.2	716.1	5450.2		
5						

Absolute Open Flow 2,145 Mcfd @ 15.025				Angle of Slope 53°	Slope, n .757
Remarks:					
Approved _____ Conducted By: _____ Calculated By: _____ Checked By: _____					