

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

Form C-122
Revised 9-1-65

0/57 - 0122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-5-81		RECEIVED	
Company MESA PETROLEUM CO /				Connection UNCONNECTED		NOV 12 1981	
Pool UNDESIGNATED ABO				Formation ABO		Unit O. C. D.	
Completion Date 5-5-81		Total Depth 4500'		Plug Back TD 4461'		Elevation 3895'	
Csg. Size 4 1/2		Wt. 10.5#		Set At 4498'		Perforations: From 3731' To 3880'	
Thq. Size 2 3/8		Wt. 4.7#		Set At 3659'		Perforations: From Open Ended To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At none		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 104° @ 4500'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 3659		H 3659		G _g .65		% CO ₂ 1	
				% N ₂ 5		% H ₂ S	
				Prover 2" Orifice Well Tester		Meter Run Taps	

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							985		980		72 hr. S
1.	2" Orifice	1 1/4		8.5	-	70	900	80	920		3/4 hr.
2.	Well	1 1/4		22	-	70	800	80	820		1/2 hr.
3.	Tester	1 1/4		34	-	70	690	80	740		1/2 hr.
4.		1 1/4		39.5	-	70	545	80	600		3/4 hr.
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	685	2" Orifice well		.9905	.9608	-	652
2	1320	Tester		.9905	.9608	-	1256
3	1780			.9905	.9608	-	1694
4	1970			.9905	.9608	-	1875
5							

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

P _c 980	P _c ² 960	
NO.	P _t ²	P _w ²
1	920	846
2	820	672
3	740	548
4	600	360
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3301$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8078$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,000$

Absolute Open Flow <u>3,000</u> Mcfd @ 15.025	Angle of Slope <u>55°</u>	Slope, n <u>.70</u>
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Remarks: _____

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: E.L. BUTTROSS, JR.	Checked By:
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