

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

Form C-122
Revised 9-1-65

C/SF
C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-6-82		FEB 24 1982	
Company MESA PETROLEUM CO /				Connection UNCONNECTED			
Pool UNDESIGNATED ABO				Formation ABO		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 2-6-82		Total Depth 4410'		Plug back TD 4321'		Elevation 3571'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4384'		Perforations: From 3780' To 4033'	
Tub. Size 2 3/8"		Wt. 4.7#		Set At 3670'		Perforations: From OPEN ENDED	
Type Well - Single - Protthead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 102 @ 4410'		Mean Annual Temp. °F 60		Buro. Press. - P ₀ 13.2	
L		H		G _g .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
				Prover 2" ORIFICE WELL TESTER		Meter Run	
						Date	

FLOW DATA						TUBING DATA		CASING DATA		Location 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							890		840		72 hr SI
1.	2" ORIFICE		1 1/4	7		20	810	48	760		1 hr
2.	WELL		1 1/4	19		20	690	54	660		1 hr
3.	TESTER		1 1/4	25		20	525	60	530		1 hr
4.			1 1/4	27		25	395	57	420		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mgd
1	612	2" ORIFICE WELL		1.0408	.9608		612
2	1122	TESTER		1.0408	.9608		1122
3.	1441			1.0408	.9608		1441
4.	1527			1.0355	.9608		1519
5.							

NO.	P _r	Temp. °R	T _r	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 853	P _c ² 728	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6812$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3034$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	773	598	130
2	673	453	275
3	543	295	433
4	433	187	541
5			

Absolute Open Flow 1850		Md @ 15.025	Angle of Slope @ 63°	Slope, n .51
Remarks:				
Approved By Commission:		Conducted By: JAMES CRAIG	Calculated By: <u>2-9-82</u> E.L. BUTTROSS, JR.	Checked By: