

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-14-82		APR 2 1982	
Company MESA PETROLEUM CO. /				Connection Unconnected		O. C. D.	
Pool <i>Pecos Slope</i> Undesignated ABO				Formation ABO		Unit ARTESIA, OFFICE	
Completion Date 3-14-82		Total Depth 4316'		Flow back TD 4220'		Elevation 3860'	
Casing Size 4 1/2"		Set At 10.5#		Perforations From 3644' To 3777'		Well No. 4	
Tub. Size 2 3/8"		Set At 4.7#		Perforations From open ended To		Unit G 8 5S 25E	
Type Well - Single - Protobhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru tubing		Reservoir Temp. °F 101 @ 4316		Mean Annual Temp. °F 60		Baro. Press. - P _o 13.2	
L		H		G _g .65		Prover 2" ORIFICE WELL TESTER	
				% CO ₂ 1		% H ₂ S 1	
						Meter Run Days	

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	
1.	2" ORIFICE	1 1/4		1		59	545		535		65 hr. SI
2.	WELL						180		185		1 hr.
3.	TESTER										
4.											
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 Comp. Factor, F _{sp}	Rate of Flow Q, Mscf
1.	218	2" ORIFICE WELL		1.0010	.9608		210
2.		TESTER					
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1.		198	39	261						
2.										
3.										
4.										
5.										

Absolute Open Flow		240		Mscf @ 15.025		Angle of Slope		45°		Slope, n	
Remarks: Unable to run four flow rates due to low delivery of well. Assumed N=1 and based calculation on one point test.											
Approved By Commission:				Conducted By:				Calculated By:			
				James Craig				E.L. Buttross, Jr.			