

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

File
Form C-122
Revised 9-1-65

JUL 1 1982

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-16-82		O. C. D.	
Company MESA PETROLEUM CO. ✓				Connection UNCONNECTED		ARTESIA, OFFICE	
Pool PECOS SLOPE ABO				Formation ABO		Unit	
Completion Date 6-16-82		Total Depth 4501'		Plug Back TD 4424'		Elevation 3737'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4449'		Perforations: From 4034' To 4313'	
Trq. Size 2 3/8"		Wt. 4.7#		Set At 3953'		Perforations: From OPEN ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 108° @ 4500'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L		H		G _g .65		% CO ₂ 1	
				% N ₂ 1		% H ₂ S	
				Prover 2" CRITICAL FLOW PROVER		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							900		900		40 HRS \$1
1.	2" x 1"			35		36	725	74	745		1 HR
2.	2" x 1"			44		40	575	80	625		1 HR
3.	2" x 1"			46		54	430	82	540		1 HR
4.	2" x 1"			49		60	285	60	465		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, Mhd
1	17.09	FLOW PROVER	48	1.024	1.24		1042
2	17.09	FLOW PROVER	57	1.020	1.24		1232
3	17.09	FLOW PROVER	59	1.006	1.24		1258
4	17.09	FLOW PROVER	62	1.000	1.24		1314
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NO.	P _t	Temp. °R	T _c	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 913 P _c ² 834		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3762$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1731$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		758	575	259	
2		638	407	427	
3		553	306	528	
4		478	228	606	
5					

Absolute Open Flow 1,550		Mhd @ 15.025		Angle of Slope @ 63.5°		Slope, n .5	
Remarks: Plot of P _c ² - P _w ² vs Q yielded a straight line with a 0 greater than 63.5°. Drew 63.5° line through highest point.							

Approved By Commission:	Conducted By: JAMES CRAIG	Calculated By: <i>EB 6-29-82</i> E.L. BUTTROSS, JR	Checked By:
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SALEM COM. NO. 1
CHAVES CO., NM
6-16-82

