

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-12-81		MAR 30 1981		
Company Mesa Petroleum Co.				Connection To Be Determined				G.C.O. OFFICE	
Pool Pecos Slope - Abo Gas Undesignated Abo				Formation Abo				Unit	
Completion Date 3-12-81		Total Depth 4300		Plug Back TD 4166		Elevation 3862		Farm or Lease Name Coyote Federal	
Csg. Size 4 1/2	Wt. 10.5	d	Set At 4268	Perforations: From 3619 To 3804		Well No. 3			
Thq. Size 2 3/8	Wt. 4.7	d	Set At 3754	Perforations: From Open Ended To		Unit B		Soc. 17	Twp. 7S
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 104# 4300		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2			
L 3754	H 3754	G _g .66	% CO ₂ 1	% N ₂ 5	% H ₂ S	Prover Choke	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							860		860		48 hr
1.	Choke		12/64	820		80	820	80	820		3/4 hr
2.	Coefficients		14/64	760		80	760	80	770		1/2 hr
3.			16/64	610		80	610	80	620		1/2 hr
4.			18/64	490		80	490	80	490		1/2 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	.5725	choke	820	.9813	1.2310		567
2	.7924	choke	760	.9813	1.2310		727
3	1.050	choke	610	.9813	1.2310		774
4	1.331	choke	490	.9813	1.2310		788
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 860 P _c ² 740		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4800$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2166$	
NO.	P _w ²	P _w	P _w ²	P _c ² - P _w ²	
1	820	672	68		
2	770	593	147		
3	620	384	356		
4	490	240	500		
5					

Absolute Open Flow _____ 950 _____ Mcfd @ 15.025 Angle of Slope @ _____ 63.5° Slope, n _____ .5

Remarks: Plot of P_c² - P_w² vs Q yielded a straight line with a θ greater than 63.5°. Drew 63.5° line through highest point.

Approved By Commission:	Conducted By: <i>E.L.B.</i> F. I. Buttruss, Jr.	Calculated By: <i>E.L.B.</i> F. I. Buttruss, Jr.	Checked By:
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