

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9/10/75			
Company Mesa Petroleum Co.				Connection El Paso Natural Gas Co.					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 8/30/75		Total Depth 5430'		Plug Back TD 5390'		Elevation 6270' GL		Farm or Lease Name State Com R	
Gr. 10-5/4		Wt. 32#		Set At 158' KB		Perforations: From 4527' To 4706'		Well No. #14A	
Tbg. 7"		20, 23 & 26#		Set At 3250' KB		Perforations: From 5118' To 5252'		Unit Sec. Twp. Rye. 0 36 30N 9W	
4-1 1/2"		Wt.		Set At 5430' KB					
2-3/8"				5244' KB					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At -----		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L		H		G _q		% CO ₂		% N ₂	
						% H ₂ S		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							736		736		SI 7 Days
1.	1.995 X 0.75						306	620	696		1 Hr
2.							286	730	678		2 Hr
3.							285	730	676		3 Hr
4.											
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, Mcfd
1							
2	12.3650		297	0.9877	0.9463	1.0292	3533
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1	0.4439	533	1.3953	0.944	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2					Specific Gravity Separator Gas 0.67 XXXXXXXXX	
3					Specific Gravity Flowing Fluid XXXXX	
4					Critical Pressure 669 P.S.I.A. P.S.I.A.	
5					Critical Temperature 382 R R	

P _c 748 P _c ² 559,504		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.4938$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.0679$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	
1		688	473,344	86,160	
2					
3					
4					
5					

Absolute Open Flow 14,372 MCF/D		Mcf @ 15.025		Angle of Slope 0.75	
Remarks:					

Approved By Commission:	Conducted By:	Calculated By: William Main	Checked By:
-------------------------	---------------	--------------------------------	-------------

9/12/75 5 State, 2 EPNG, 1 Archer