

**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 8/31/78			
Company Mesa Petroleum Co.				Connection El Paso Natural Gas					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 8/18/78		Total Depth 4775'		Plug Back TD 4720'		Elevation 6005' GL		Farm or Lease Name Federal	
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 4775'	Perforations: From 3858' To 4669'		Well No. 16A			
Tbg. Size 2 3/8"	Wt.	d	Set At 4545'	Perforations: From To		Unit F	Sec. 9	Twp. 27N	Rge. 8W
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 68 degrees		Baro. Press. - P _a		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
		.650							

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	2"		.75"			68 ⁰	920		922		4 hrs
1.				Pitot Tube		68 ⁰	133		411		
2.											
3.											
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	Based on NMOCC Manual for Pitot Tube Testing Procedures						
2.							
3.							
4.				.9924	.9608	1.013	1732
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deq.
2.					Specific Gravity Separator Gas .650 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2580$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1879$
1						
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2057$

Absolute Open Flow 2057 Mcfd @ 15.025 Angle of Slope @ Oil Comp Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By: Mesa Petroleum Co.	Calculated By: Glen Rhodes	Checked By: C.R. Wagner (EPNG)
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USGS(2), NMOCC (5), Dvr. Off. (1), J. Archer, EPNG(2), D&M, M&M, Les Carnes Mike Moore