

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 8/10/78	
Company Mesa Petroleum Co.				Connection El Paso Natural Gas			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 7/31/78		Total Depth 5665'		Plug Back TD 5633'		Elevation 6417' GL	
Farm or Lease Name State Com Q		Well No. #13A		Unit J		Sec. Twp. Rge. 36-29N-8W	
Csg. Size 4 1/2	Wt. 10.5#	d 5654'	Set At 5654'	Perforations: From 4696' To 5611'		Unit J	
Tbg. Size 2 3/8"	Wt. 5547'	d 5547'	Set At 5547'	Perforations: From To		Unit J	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At 3127'		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F @ 74 degrees		Baro. Press. - P _g		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run
		.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
1.	2"		.75"	Pitot Tube			859				4 hrs.
2.							346				
3.											
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 Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	Based on NMOCC Manual for Pitot Tube testing Procedures						
2.							
3.				.9868	.9608	1.033	4336
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.							.650			
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.					3.0841	2.3273
2.						
3.						
4.						
5.						

NO.	P _t	P _w	P _c	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.					10,091
2.					
3.					
4.					
5.					

Absolute Open Flow	10,091	Mcfd @ 15.025	Angle of Slope θ	Slope, n	.75
Remarks:					

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Mesa Petroleum Co.	Jack Dunning	C. R. Wagner (EPNG)

NMOCC (5), J. Archer, Dvr. Office, EPNG(4), Texaco (2) D&M, M&M, L.C., M.M.