

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 10-3-75				
Company Mesa Petroleum Co.				Connection El Paso Natural Gas Co.					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 9-23-75		Total Depth 5586'		Plug Back TD 5542'		Elevation 6288' GL		Farm or Lease Name State Com M	
10-3/4" 7"		Wt. 20&23#		Set At 170' KB 3350' KB		Perforations: From 4657' To 4925'		Well No. 9A	
4-1/2" 2-3/8"		Wt. 10.5#		Set At 170' - 5581' KB 5408' KB		Perforations: From 5314' To 5410'		Unit Sec. Twp. Rge. P 36 32N 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L		H		Gg		% 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		739		SI 7 Days
1.	1.995	X 0.75					299	68°	669		1 Hr
2.							293	78°	652		2 Hr
3.							288	74°	641		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2	12.365		300	0.9868	0.9463	1.0298	3,567
3.							
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	0.4484	534	1.3979	0.943			0.67			
2.										
3.										
4.										
5.										

NO.	P _c	P _w	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	751	564.001	653	4.0991	2.8808
2					
3					
4					
5					

NO.	P _c	P _w	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1				10,276
2				
3				
4				
5				

Absolute Open Flow 10,276 Mcf/d		Mcf/d @ 15.025		Angle of Slope ϕ		Slope, n 0.75	
Remarks:							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
				William Main			

