

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 7/15/75	
Company Mesa Petroleum Co.		Connection	
Pool Blanco		Formation Mesaverde	
Completion Date 7/8/75		Total Depth 5171'	Plug Back TD 5135'
		Elevation 6219' KB	Farm or Lease Name State Com P
Csg. Size 10-3/4" 32# 7" 23#	Set At 164' KB 3131' KB	Perforations: From 4424' To 4562'	
Tbg. Size 4-1/2" 10.5# 2-3/8"	Set At 166' KB 5095' KB	Perforations: From 5004' To 5110'	
Type Well -- Single -- Bradenhead -- G.G. or G.O. Multiple Single		Packer Set At None	County San Juan
Producing Thru Tubing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. -- P _a 12 psi
		State New Mexico	
L	H	G _g	% 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							780		783		SI 7 Days
1.	1.995 X 0.75						337	44°	723		1 Hr
2.							312	54°	696		2 Hr
3.							290	56°	688		3 Hr
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							
2	12.3650		302	1.0039	0.9463	1.0347	3671
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.	0.4514	516	1.3508	0.934	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas 0.67	XXXXXX
3.					Specific Gravity Flowing Fluid XXXXX	
4.					Critical Pressure 669 P.S.I.A.	P.S.I.A.
5.					Critical Temperature 382 R	R

NO.	P _i	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1		700	490,000	140,025	4.4994	3.089
2						
3						
4						
5						

Absolute Open Flow <u>11,339 MCF/D</u> Mcfd @ 15.025 Angle of Slope θ _____ Slope, n <u>0.75</u>			
Remarks: _____			
Approved By Commission:		Conducted By: James Archer	Calculated By: William Main

XC: 7/17/75: 3 State, 1 Archer, 1 Div. Mgr., 2 EPNG, 1 Les Carnes, 1 D&M