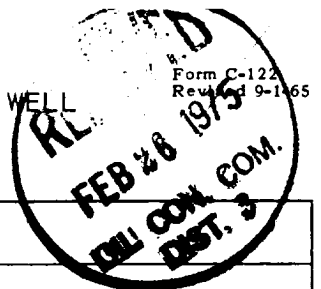


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/19/75			
Company Mesa Petroleum Co.				Connection			
Pool Blanco				Formation Mesaverde		Unit -----	
Completion Date 2/9/75		Total Depth 5560'		Plug Back TD 5491'		Elevation 6310' GL	
Farm or Lease Name State Com N		Well No. 10A					
Csg. Size 4 1/2" - 7"	Wt. 10.5# 26#	Set At 3350'	Perforations: From 4780' To 5470'				
Thq. Size 2 3/8"	Wt. 4.7	Set At 5400'	Perforations: From ----- To -----				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 146.0° 5558'	Mean Annual Temp. °F -----	Baro. Press. - P _a 12 psi		State New Mexico	
L	H	Gg 0.7	% 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		7 days
1.							250	55°	713		1 hour
2.							246	55°	698		2 hour
3.	1.995" x 0.75"						240	58°	692		3 hour
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							
3	12.365		252	1.002	1.195	1.100	4104
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas <u>0.7</u> X X X X X X X X
3.	1.12	518	1.32	0.826	Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. P.S.I.A.
5.					Critical Temperature _____ R R

$P_c = 748$ $P_c^2 = 559,504$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.0347$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.8468$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1								
2								
3		649	63,504	496,000	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,683$			
4					$\frac{559,504}{138,673} = 4.0347$			
5					$\frac{559,504}{138,673} = 2.8468$			

Absolute Open Flow <u>11,683</u> Mcfd @ 15.025		Angle of Slope θ _____		Slope, n <u>0.75</u>	
--	--	-------------------------------	--	----------------------	--

Remarks: $(F_c Q_m)^2 = (1488865)$ $R^2 = 357,327.6$ $P_c^2 = 63504$ $P_w = 649$					
Approved By Commission:		Conducted By: Jack Dunning		Calculated By: R. J. Flaker	
				Checked By:	