

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	
Company Mesa Petroleum Co.				Connection		
Pool Blanco				Formation Mesaverde		Unit
Completion Date 4-30-75		Total Depth 5310'		Plug Back TD 5264'		Elevation 5981' K.B.
Farm or Lease Name State Com I		Well No. No. 5A				
Csg. Size 4-1/2"	Wt. 10.5	d 4.052"	Set At 5306'	Perforations: From 4464' To 5117'		Unit F
Thq. Size 2-3/8"	Wt. 4.7	d 1.995"	Set At 5107'	Perforations: From 5077 To 5107		Sec. 36 Twp. 31N Rge. 9W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At None		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 150 @		Mean Annual Temp. °F		State New Mexico
Baro. Press. - P _a 12 psi						
L 5107	H	G _g 0.68	% CO ₂	% N ₂	% H ₂ S	Prover X
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							386		386		7 Day SIP
1.							137	58	362		1 hr.
2.	0.75 x 1.995						137	64	355		2 hr.
3.							134	67	351		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2	12.365		146	0.9933	1.213	1.016	2210
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.218	527	1.369	0.969	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2					Specific Gravity Separator Gas 0.68	X X X X X X X X
3					Specific Gravity Flowing Fluid X X X X X	
4					Critical Pressure 669 P.S.I.A.	P.S.I.A.
5					Critical Temperature 385 °R	°R

NO.	P _c	P _w	P _w ²	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	398	158.404	363	131,769	26,635	5.947
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ **8420**

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____		Slope, n 0.75
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Remarks: _____

Approved By Commission:	Conducted By: Bill Toler	Calculated By: <i>R. J. Flaker</i>	Checked By:
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RECEIVED
MAY 2 1975
OIL CON. COM.
DIST. 3

2 - State (dist office) 1 - EPRC