

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 Southern Union Gas			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 2-18-75		Total Depth 4945'		Plug Back TD 4940'		Elevation 5936'	
Farm or Lease Name State Com G							
Csg. Size 4 1/2"	Wt. 9.5	d	Set At 4942'	Perforations: From 4075' To 4858'		Well No. #2A	
Tbg. Size 2-3/8"	Wt. 4.7	d	Set At 4860'	Perforations: From 4829' To 4860'		Unit J	Sec. 32
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual (Gas)						Packer Set At 2628	Twp. 29N
Producing Thru Tbg		Reservoir Temp. °F 122 @ 4844'		Mean Annual Temp. °F 74		Baro. Press. - P _a New Mexico	
L 4844		H 4844	Gg .67	% CO ₂	% N ₂	% H ₂ S	Prover 2
							Meter Run 2
							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							745	60			72+
1.	2 X .750						202	44			3
2.											
3.											
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	9.453		214	1.0158	1.222	1.026	2576
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/bbl.
1.	.32	504	1.32	.950	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas <u>.670(est)</u> XXXXXXXXXX
3.					Specific Gravity Flowing Fluid <u>XXXXX</u>
4.					Critical Pressure <u>669</u> P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature <u>382</u> R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4275$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9060$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3364$
1		414.2	171.6	401.4	
2					
3					
4					
5					

Absolute Open Flow <u>3,364</u> Mcfd @ 15.025		Angle of Slope ϕ _____	
Slope, n <u>.750</u>			
Remarks: _____			
Approved By Commission:		Conducted By:	
		Calculated By: William Main	
		Checked By: 	

XC 8/22/75 3 State, 2 SUG, 1 Archer