

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 7/26/78			
Company Mesa Petroleum Co.				Connection El Paso Natural Gas					
Pool				Formation Mesaverde				Unit	
Completion Date 7/18/78		Total Depth 5693		Plug Back TD 5630		Elevation 6271 GR		Farm or Lease Name Suter	
Csg. Size 4 1/2	Wt. 10.5	d 5692	Set At 5692	Perforations: From 4586 To 5636		Well No. 1A			
Tbg. Size 2 3/8	Wt. 4.7	d 5443	Set At 5443	Perforations: From To		Unit Sec. Twp. Rge. C 13 32N 11W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 3133		County San Juan			
Producing Thru Tbg.		Reservoir Temp. °F @ 74 degrees		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .650	% 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
1.	2"		.75"	Pitot Tube		74.0	932		731		4 hrs.
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.	Based on NMOCC Manual for Pitot Tube Testing Procedures						
2.							
3.				.9868	.9608	1.034	4461
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas .650 X X X X X X X X
3.					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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7500$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1355$
1.						
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9526$

Absolute Open Flow	9526	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: Mesa Petroleum Co.	Calculated By: Bill Toller	Checked By: C.R. Wagner-EPNG
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