

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 1/10/78	
Company Mesa Petroleum Co.				Connection El Paso Natural Gas Company		
Pool Basin Dakota				Formation Dakota		Unit D
Completion Date 12/15/77		Total Depth 6731'		Plug Back TD 6703'		Elevation 6531' KB
Farm or Lease Name Otero Federal						
Csg. Size 4 1/2"	Wt. 10.5#	d 	Set At 6731'	Perforations: From 6450' To 6675'		Well No. #5
Tbg. Size 2 3/8"	Wt. 	d 	Set At 6675'	Perforations: From To		Unit Sec. Twp. Rge. D 23, 24N, 6W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F 		State New Mexico
L 6641	H 6641	Gg 0.65	% 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.	
SI							2361		2370	
1.			3/4"				230		810	80°
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	12.365			0.9813	0.9608	1.022	2883
2.							
3.							
4.							
5.							

NO.	P _r	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 0.650 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 _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1352$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0998$
1						
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3171$

Absolute Open Flow 3171 mcf/D		Mcf/d @ 15.025	Angle of Slope @	Slope, n 0.85
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Remarks: _____

Approved By Commission:	Conducted By: James Archer	Calculated By: C. R. Wagner	Checked By: S. E. Dobler
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xc: NMOCC (5), Dvr. Office, J. Archer, EPNG, D & M, M & M, Les Carnes, & Mike Moore