

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 7/23/81			
Company M. J. Brannon				Connection El Paso Natural Gas					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 7/16/81		Total Depth 6532'		Plug Back TD 6458'		Elevation 6678'KB		Farm or Lease Name Federal 29	
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6532'	Perforations: From 6374' To 6366'		Well No. 1			
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 6346'	Perforations: From Open To Ended		Unit Sec. Twp. Rge. B 29-25N-9W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan			
Producing Thru Tubing		Reservoir Temp. °F 150 ^o		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0		State New Mexico	
L 6346	H 6346	Gg 0.60	% 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							1600		1350		8 day
1.	3/4"THC						100	60	250		3 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	12.3650		112	1.0000	1.0000	1.0000	1,385
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbon	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1612	P _c ² 2,598,544	
NO.	P _t ²	P _w ²
1	262	68,644
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0271$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,413$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0202$

Absolute Open Flow 1,413 Mcfd @ 15.025	Angle of Slope ° -	Slope, n 0.75
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Remarks:

Approved By Commission:	Conducted By: Gil Nelson	Calculated By: Ewell N. Walsh	Checked By:
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