

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-172
Rev. 1-1-60

☒ Initial		☐ Annual		☐ Special		Test Date 3-28-73	
Name John E. Schalk				Connection Waiting on Pipeline			
Basin Dakota				Formation Dakota			
Date 2-2-73		Total Depth 8070'		Flow Back TD 8057'		Elevation 6486' GR	
Well No. 4.500		Set At 10.58 4.0526 8067		Perforations: From 7940 To 8039		Well No. 3	
Well No. 2.375		Set At 4.70 1.995 7993		Perforations: XXXXXX Open Ended XXX at 7993		Unit: Sec. Twp. Rge. A 3 30 5	
Well - Single - Bordenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 200 @ 8070		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0	
7993		7993		0.65		State New Mexico	
H		G _g		% CO ₂		% N ₂	
7993		7993		0.65		--	
G _g		% CO ₂		% N ₂		% H ₂ S	
7993		7993		0.65		--	
Prover		Meter Run		Reps			
7993		7993		0.65		--	

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.	
1	3/4" T.C.						2750		2758	7 3 hrs.
2							258	60	900	
3										
4										
5										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650	--	270	1.0000	0.9608	1.028	3,298
2							
3							
4							
5							

NO	T _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcft/hbl.	Dep.
1												
2												
3												
4												
5												

NO	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	912	831,744	6,486,697	1.1837	1.1348
2					
3					
4					
5					

Rate of Flow 3,743 Mcfd @ 15.025		Angle of Slope θ	Glone, n 0.75
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Remarks:			
Registered Professional Engineer, St. of N.M. Reg. No. 4324			
Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	Ewell N. Walsh	Ewell N. Walsh	