

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

Form C-122
Revised 6-1-65

☒ Initial ☐ Annual ☐ Special				Test Date: 10/9/79			
Company: Minerals, Inc.				Operator: Phillips Petr. Co.			
Undesignated (East Grama Ridge)				Formation: Upper Morrow			
Test Date: 10/6/79		Total Length: 13,280		Log Book No.: 13,188		Elevation: 3672 KB	
Well No. 1		Well No. 1		Well No. 1		Well No. 1	
Size: 4 1/2		Set At: 13,279		Perforations: From 12,824 To 12,838		Well No. 1	
Size: 2-3/8		Set At: 10,600		Perforations: From - To -		Unit: I Sec: 34 Twp: 21S Range: 34E	
Type well - Single - Production - G.O. or G.O. Multiple: Single				Factor Set At: 10,573		County: Lea	
Producing Zone: TBG		Reservoir Temp. °F: 177 ± 13,280		Mean Annual Temp. °F: 60		State: New Mexico	
L: 12,831		H: 12,831		Gg: 0.591		Prover: -	
				% CO ₂ : -		% H ₂ S: -	
						Meter Run: 4" Flange	

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	90 hours						4635		Packer	
2	4 x 2.250			42	5.5	65	3060	70		
3	4 x 2.250			80	9.5	79	2660	68		
4	4 x 2.250			160	17.0	83	1810	64		
5	4 x 2.250			200	19.5	86	1453	64		

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcf/d
1	28.23	17.42	55.2	0.9952	1.301	1.004	639
2	28.23	29.76	93.2	0.9822	1.301	1.006	1,080
3	28.23	54.26	173.2	0.9786	1.301	1.013	1,976
4	28.23	64.48	213.2	0.9759	1.301	1.015	2,346

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.08	525	1.48	0.993	35	50	0.591	X X X X X X X X	672	354
2	0.14	539	1.52	0.988				X X X X X		
3	0.26	543	1.53	0.975						
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