

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

Form C-122
Revised 9-1-65

RECEIVED

AUG 7 1985
OIL CON. DIV. 1
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special											
Company El Paso Natural Gas						Connection 					
Pool Blanco						Formation Mesa Verde					
Completion Date 8-2-85			Total Depth 6682			Plug Back TD 6666			Elevation 7212 GR		
Farm or Lease Name S.J. 27-4 Unit											
Csg. Size 7.000		Wt. 20		d 6.456		Set At 4415		Perforations: From *5038 To 6637			
Well No. #132 A											
Tbg. Size 2.375		Wt. 4.7		d 1.995		Set At 6674		Perforations: From To			
Unit I						Sec. 27		Twp. 27		Rge. 4	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single								Packer Set At None		County Rio Arriba	
Producing Thru Tbg.			Reservoir Temp. °F a			Mean Annual Temp. °F			Baro. Press. - P _a 12		
State New Mexico											
L		H		Gg .680		% CO ₂		% N ₂		% H ₂ S	
Prover		Meter Run		Taps							
FLOW DATA											
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	Duration of Flow
SI							968		1081		7 Days
1.		.750		262		60	262		901		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	12.365		274	1.000	.9393	1.031	3281				
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 _____ 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						
P _r 1093 P _r ² 1194649											
NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{1194649}{361080}$						
1		913	833569	361080	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.4532$						
2.											
3.											
4.											
5.											
AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 8049$											
Absolute Open Flow 8049 Mcfd @ 15.025					Angle of Slope θ _____		Slope, n .75				
Remarks: * 4.500" Liner 4248'-6682' Gas vented during test = 440 MCF.											
Approved By Commission:		Conducted By: Gary Osborne		Calculated By: Ed Mabe		Checked By: kld					