

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

Form C-122
Revised 9-1-65

RECEIVED
JUL 19 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-15-85	
Company El Paso Natural Gas				Connection			
Pool Basin				Formation Dakota			
Completion Date 7-15-85		Total Depth 6660		Plug Back TD 6640		Elevation 6286 GR.	
Csg. Size 4.500		Wt. 10.5		Set At 4.052 6660		Perforations: From 6392 To 6519	
Trq. Size 2.375		Wt. 4.7		Set At 1.995 6519		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tbg.		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a 12	
L		H		Gg .700		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1			.750	223		84	223
2							613
3							
4							
5							
NO.	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1							7 Days
2							3 Hrs.
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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		235	.9777	.9258	1.025	2696
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 1749 P _w ² 3059001							
NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{3059001}{2668376}$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1079$			
1		625	390625				
2							
3							
4				AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2987$			
5							
Absolute Open Flow 2987 Mcfd @ 15.025					Angle of Slope θ _____ Slope, n .75		
Remarks: Heavy spary oil & water in 6 Mins. Med. spary throughout test. Gas vented during test = 462 MCF.							
Approved by Commission:		Conducted By: Joe Gillentine		Calculated By: Ed Mabe		Checked By: kld	