

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

Form C-122
Revised 9-1-65

RECEIVED

AUG 7 1985

OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-31-85									
Company El Paso Natural Gas		Connection									
Pool Basin		Formation Dakota									
Completion Date 7-31-85		Total Depth 7015	Plug Back TD 6990								
Csg. Size 4.500		wt. 10.5	d .4052								
Set At 7014		Perforations: From 6798 To 6917									
Req. Size 2.375		wt. 4.7	d 1.995								
Set At 6921		Perforations: From To									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	Form or Lease Name Huerfano Unit								
Producing Thru Tbg.		Reservoir Temp. °F a	Mean Annual Temp. °F								
Baro. Press. - P _a 12		State New Mexico									
L. H. Gg. % 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. hw	Temp. °F	TUBING DATA Press. p.s.i.g.	Temp. °F	CASING DATA Press. p.s.i.g.	Temp. °F	Duration of Flow
1.			.750	12		80	744		1446		7 Days
2.							12		519		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		24	.9813	.9858	1.003	270				
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 X X						
3.					Specific Gravity Flowing Fluid _____ X X X X X						
4.					Critical Pressure _____ P.S.I.A.						
5.					Critical Temperature _____ R						
P _r 1458 P _w 2125764											
NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{2125764}{1843803}$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1126$						
1		531	281961	1843803							
2											
3											
4											
5											
ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 300$											
Absolute Open Flow 300 Mcfd @ 15.025					Angle of Slope θ _____ Slope, n .75						
Remarks: Heavy spary oil & some water thoroughout test. Gas vented during test = 120 MCF.											
Approved by Commission:		Conducted By: Joe Gillentine		Calculated By: Ed Mabe		Checked By: kld					