

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

Form G-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-17-88	
Company Union Oil Company of California				Connection Not yet connected	
Well House				Formation Seven Rivers/Yates	
Completion Date 11-17-88		Total Depth 4477'		Plug back To 3580'	
Csg. Size 5 1/2"		Vt. 15.5#		Set At 4287'	
Perforations: From 2994' To 3112'		Well No. 1			
Tub. Size 2 3/8"		Vt. 4.7#		Set At 2939'	
Perforations: From To		Unit Sec. Twp. Rge. E 5 20-S 39-E			
Type well - Single - Provenhead - G.G. or G.O. Multiple Single				Packer Set At 2939'	
Producing Thru L H Gg				County Lea	
Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico				Meter Run	
Prover		Page			

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.		Temp. °F
1.	2" orifice meter 1"						240				22 hrs
2.	NOTE: Stabilized shut-in tubing pressure after test was 1025 psig.										
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 _{cv}	Rate of Flow Q, Mscf/d
1							385
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _t	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	

NO.	P _c	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						
2						
3						
4						
5						

AOIF = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 385$

Absolute Open Flow 385	Mscf @ 15,025	Angle of Slope θ	Slope, n
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Remarks: Due to the low flow rate and low wellhead pressure, a back pressure test was not applicable here. The well was flowed to the atmosphere for 22 hours, thereby representing an absolute open flow.

Approved By Commission:	Conducted By: Kenneth Poole	Calculated By: M. F. Standifer, Jr.	Checked By: John Gray
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