

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

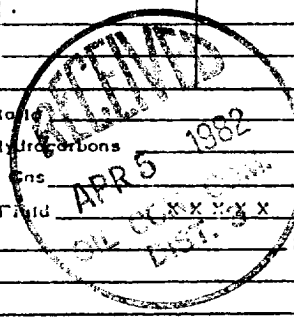
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-6-82			
Company Union Texas Petroleum Corporation				Connection Gas Company of New Mexico					
Pool Basin				Formation Dakota				Unit	
Completion Date 2-25-82		Total Depth 7001		Plug Back TD 6975		Elevation		Form or Lease Name Culpepper Martin	
Orig. Size 7.625	Wt. 26.4	d 6.969	Set At 4392	Perforations: From 6692 To 6918		Well No. 3M			
5.500	15.5	4.950	4267/6999						
Fig. Size 2 3/8	Wt. 4.7	d 1.995	Set At 6881	Perforations: From open To ended		Unit Soc. Twp. Rge. F 7 31 12			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. /Dual						Packer Set At 4822		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia		State New Mexico	
L	H	G _g .650	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

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
SI	9 days						2052				
1.	2 "		.750	481			481	60° est.			3 hours
2.											
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 F _g	Super Compress. Factor, F _{spv}	Rate of Flow Q, Mhd
1	12.3650		493	1.000	.9608	1.051.	6156
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/bbl.	Deq.
1.												
2.												
3.												
4.												
5.												



NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.38056$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.27362$
1		1083	1174334	3085762		
2						
3		calculated				
4						
5						

$AOI = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 7840$

Absolute Open Flow	7840	Mhd @ 15.025	Angle of Slope	Slope, n .75
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Remarks: Dry gas with show of oil.

Approved By Commission	Conducted By Joe Elledge	Calculated By Joe Elledge	Checked By Mr. Don Wells
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