

**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 <u>4/15/78</u>	
Company <u>Continental Oil Company</u>				Connection <u>None</u>			
Pool <u>East San Juan</u>				Formation <u>Pictured Cliff</u>			
Completion Date <u>4/6/78</u>		Total Depth <u>8425'</u>		Plug Back TD <u>6400'</u>		Elevation	
Farm or Lease Name <u>Conoco 29-4</u>		Well No. <u>4</u>		Unit <u>N</u>		Sec. <u>24</u> Twp. <u>29N</u> Rge. <u>4W</u>	
Csg. Size <u>7"</u>	Wt. <u>23</u>	d <u>6.366</u>	Set At <u>7055'</u>	Perforations: <u>From 3728' To 3876'</u>			
Tbg. Size <u>2 3/8</u>	Wt. <u>4.7</u>	d <u>1.995</u>	Set At <u>3730'</u>	Perforations: <u>From open ended To</u>			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single G.</u>				Packer Set At <u>none</u>		County <u>Rio Arriba</u>	
Producing Thru <u>Tbg</u>		Reservoir Temp. *F <u>121° 3720'</u>		Mean Annual Temp. *F <u>50°</u>		Baro. Press. - P _a <u>12.2</u>	
State <u>N. Mex.</u>							
L <u>3730'</u>	H <u>3730'</u>	Gg <u>.690</u>	% 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. hw	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.		Temp. *F
SI				<u>1075</u>		<u>60°</u>	<u>1075</u>	<u>60°</u>	<u>1065</u>	<u>60°</u>	
1.	<u>3/4 choke nipple</u>					<u>65°</u>	<u>365</u>	<u>68°</u>	<u>959</u>	<u>60°</u>	<u>3 hr.</u>
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	<u>11.0</u>		<u>377</u>	<u>.9924</u>	<u>1.204</u>	<u>1.129</u>	<u>5,643.9</u>
2.							
3.							
4.							
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	<u>.545</u>	<u>528</u>	<u>1.37</u>	<u>.926</u>	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1		<u>1.94</u>	<u>1181.24</u>	<u>6999.5</u>
2				
3				
4				
5				

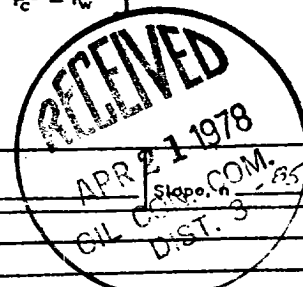
(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \underline{1.6881}$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \underline{8,808}$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \underline{1.5606}$

Absolute Open Flow <u>8,808</u> Mcfd @ 15.025	Angle of Slope θ _____
Remarks: _____	

Approved By Commission:	Conducted By: <u>D.L. Moore</u>	Calculated By: <u>D.L. Moore</u>	Checked By:
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NMOCC AZTEC (2) - USGS, DURANGO (2) - NWPL, S.L.C. - BEA-FILE