

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/24/78	
Company Continental Oil Company			Connection None		
Pool Gobernador			Formation Pictured Cliffs		Unit
Completion Date 4/11/78		Total Depth 4606'		Plug Back TD 4505'	
Elevation 7435'		Form or Lease Name Conoco 29-4			
Csq. Size 4 1/2	Wt. 10.5	d 4.052	Set At 4600'	Perforations: From 4080' To 4176'	
Well No. 10					
Tbg. Size 1 1/2	Wt. 2.33	d 1.330	Set At 4090'	Perforations: From open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At NA	
Producing Thru 460				County Rio Arriba	
Reservoir Temp. °F 8		Mean Annual Temp. °F 50		State N.Mex.	
Baro. Press. - P _a 12.2					
K 4095	H 4090	G _g .690	% 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
1.	3/4" choke nipple			1145		65	1145	65	1145	65	3 hr.
2.				61			61	54	420	65	
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 _{pv}	Rate of Flow Q, Mcfd
1.	11.0		73	1.006	1.204	—	972.6
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 _t	P _w	P _w ²	P _t ² - P _w ²
1.	1157	1145	1306225	274112
2.				
3.				
4.				
5.				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.4972$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.371$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.4092$

Absolute Open Flow	1.371	Mcfd @ 15.025	Angle of Slope @	Stop, R
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Remarks:

Approved By Commission:	Conducted By: D.L. Moore	Calculated By: D.L. Moore	Checked By:
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WMOORE, AZTEC (2) - USGS, DURANGO (2) - BEA - FILE