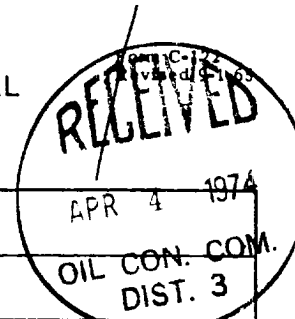


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 2-25 to 2-28-74					
Company Continental Oil Company					Connection Unconnected					
Pool					Formation Gallup					
Completion Date			Total Depth 8572		Plug Back TD 8370		Elevation 7112' GR; 7124' KB		Farm or Lease Name Conoco 29-4	
Csg. Size 7"	Wt. 26#	d 6.276	Set At 7198*	Perforations: From 7322 To 7658' KB				Well No. 5		
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7645' KB	Perforations: From To				Unit Sec. Twp. Rge. E 12 29N 4W		
Type Well - Single - Eiradenhead - G.G. or G.O. Multiple Single					Packer Set At None			County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F 204 3 7490' KB		Mean Annual Temp. °F		Baro. Press. - P _g 12.2		State New Mexico		
L	H	Gg .700	% CO ₂ ----	% N ₂ ----	% H ₂ S ----	Prover		Meter Run 4.026	Taps Flange	

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							2590	60	2605	60	S-I 22 Days
1.	4"		1.000	260	59	60	260	60	340	60	24 Hours
2.	4"		1.000	245	59	60	245	60	320	60	36 Hours
3.	4"		1.000	250	44	60	250	60	330	60	48 Hours
4.	4"		1.000	250	56	60	250	60	320	60	60 Hours
5.	4"		1.000	250	52	60	250	60	325	60	70 1/2 Hrs.

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	4.753	126.7	272.2	1.000	1.195	1.033	748
2	4.753	123.2	257.2	1.000	1.195	1.031	721
3	4.753	107.4	262.2	1.000	1.195	1.032	630
4	4.753	121.2	262.2	1.000	1.195	1.032	710
5	4.753	116.8	262.2	1.000	1.195	1.032	685

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.407	520	1.327	.937	A.P.I. Gravity of Liquid Hydrocarbons _____ Deq.
2.	.385	520	1.327	.941	Specific Gravity Separator Gas _____ X X X X X X X X
3.	.392	520	1.327	.939	Specific Gravity Flowing Fluid _____ X X X X X
4.	.392	520	1.327	.939	Critical Pressure _____ P.S.I.A. 668 P.S.I.A.
5.	.392	520	1.327	.939	Critical Temperature _____ R 392 R

NO.	P _c	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	2617.2				
2	6,850				
3					
4					
5		68.748	337.2	114.4	6,735.6

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0170$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0127$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 694$

Absolute Open Flow	694		Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Rates 1, 2, 3, 4 and 5 are rates at various stages of a 71 hour flow starting at 1:00 P.M. 2-25-74

*4 1/2" liner from 7038 to 8572' KB

Approved By Commission:	Conducted By: E. B. Errett	Calculated By: E. B. Errett	Checked By:
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