

NEW XICO OIL CONSERVATION COMMISS.
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-21-78		SPUD DATE 9-30-77	
Company Continental Oil Company				Connection El Paso Natural Gas Company				
Pool Eumont				Formation Eumont				
Completion Date 10-25-77		Total Depth 3810		Plug Back TD 3767		Elevation 3551 GL		
Csg. Size 5 1/2	Wt. 15.5	d 	Set At 3810	Perforations: From 3620 To 3743		Well No. 98		
Tbg. Size 2 3/8	Wt. 	d 	Set At 3579	Perforations: From To		Unit Sec. Twp. Rge. G 14 20 37		
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single					Packer Set At 		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 69		Mean Annual Temp. °F 		State New Mexico		
L 	R 	Gg .694	% CO ₂ 	% N ₂ 	% H ₂ S 	Prover 	Meter Run 4"	
FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	
1.	4	x	1.500	75	5.0	70	198	
2.	4	x	1.500	75	13.0	71	190	
3.	4	x	1.500	79	26.0	69	175	
4.	4	x	1.500	81	45.0	69	135	
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 Compens. Factor, Fpv	Rate of Flow O. Mld	
1	10.84	21.00	88.2	.9905	1.200	Nil	271	
2	10.84	33.86	88.2	.9896	1.200	Nil	436	
3	10.84	48.96	92.2	.9915	1.200	Nil	631	
4	10.84	65.11	94.2	.9915	1.200	Nil	840	
5.								
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/Sbl.			
1	.13	530	1.37	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2	.13	531	1.37	Nil	Specific Gravity Separator Gas .694 X X X X X X X X			
3	.14	529	1.36	Nil	Specific Gravity Flowing Fluid X X X X X			
4	.14	529	1.36	Nil	Critical Pressure 669 P.S.I.A. P.S.I.A.			
5.					Critical Temperature 388 R R			
$P_c = 218.2$ $P_w^2 = 47.611$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.856$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.362$			
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	$ADP = 0 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.144$			
1		211.2	44.605	3.006				
2		203.2	41.290	6.321				
3		188.2	35.419	12.192				
4		148.2	21.963	25.648				
5								
Absolute Crd. Flow 1,144 Mld @ 15.625					Angle of Slope θ 63.5°		Slope, n 500	
Remarks:								
Approved By Comadrant:		Conducted By:		Calculated By:		Checked By:		
		Bob McMurrian		Rick Pagan				

NA 502-1085 (2) - USGS (2) - F212

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COL. CONSID. OF N. M. COMMA
HOBBS, N. M.