

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR 5 WELL

Form C-122
 Revised 9-1-65

Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-24-78	
Company Moco Production Company			Connection Northern Natural Gas Com		
Location Queen			Unit		
Completion Date 31-78		Total Depth 4000'		Plug Back TD 3957'	
Elevation 3583'		Form or Lease Name Gillully Fed Gas Co.			
Well No. 15		Well No.			
Unit 2		Sec. 24		Twp. 304	
Rge. 36E		County Lea			
State New Mexico		State			
Proving Through 3574		Reservoir Temp. °F 104 @ 3574		Mean Annual Temp. °F 60.0	
Boro. Press. - P ₀ 13.2		Boro. Press. - P ₀			
L 3574		H 3574		G _g 0.723	
% CO ₂ 4.61		% N ₂ 1.45		% H ₂ S 1.33	
Prover 0		Meter Run 4.0		Type Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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	
						152	43			29.5
4.03		1.250	110	2.0	51	139	43	0	0	0.7
4.03		1.250	110	5.0	54	129	44	0	0	0.7
4.03		1.250	110	9.0	57	122	48	0	0	0.7
4.03		1.250	105	17.5	57	112	50	0	0	0.7

RATE OF FLOW CALCULATIONS						
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, Mhd
7.47	15.70	123.2	1.0089	1.1761	1.0143	141
7.47	24.82	123.2	1.0058	1.1761	1.0141	222
7.47	33.30	123.2	1.0029	1.1761	1.0139	297
7.47	45.48	118.2	1.0029	1.1761	1.0133	406

P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	0	Mcf/Abbl.
0.18	511	1.32	0.972	A.P.L. Gravity of Liquid Hydrocarbons	0	Deg.
0.18	514	1.33	0.972	Specific Gravity Separator Gas	0.723	XXXXXXX
0.18	517	1.34	0.973	Specific Gravity Flowing Fluid	XXXXX	0.723
0.17	517	1.34	0.974	Critical Pressure	692	P.S.I.A. 692
				Critical Temperature	387	R 387

165.5	P _c ²	27	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3486$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.3486$
23	152	23	4			
20	142	20	7			
18	135	18	9			
16	125	16	12			
				AOR = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 953$		

Absolute Open Flow 953 Mhd @ 15.025		Angle of Slope 45.0		Slope, n 1.000	
Remarks:					
Provided by Commission:		Conducted by: John West Engineering		Calculated by: CCW	
				Checked by: RMB	

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COMMUNICATIONS SECTION
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