

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

Form C-122
 Revised 9-1-63

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-26-87			
Company ARCO OIL & GAS COMPANY				Connection NNG					
Pool Eumont				Formation Queen				Unit	
Completion Date 10/24/86		Total Depth 3600'		Plug Hole 1 3558'		Elevation 3571.2		Farm or Lease Name STATE H	
Inst. Size 5.5	Wt. 15.5	d 4.950	Set At 3600'	Perforations: From 3364 To 3453		Well No. 5			
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 3239'	Perforations: From Open To Ended		Unit 5		Sec. 21S	Rqo. 36E
Type Well - Single - Packerhead - G.G. or G.O. Multiple Gas Well - Single						Packer Set At 3239'		County Lea	
Producing thru Tbg		Reservoir Temp. °F p		Mean Annual Temp. °F		Bare. Press. - P _g		State New Mexico	
3239	L	H	3239	C _g	.700	% CO ₂	3.729	% N ₂	1.205
				% H ₂ S		Prover		Meter Run	4.026
								Tape	Pipe

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							158		pkf		68 hrs
1.	4.026 x 1.500			43	6.0	51	150	51			2
2.				44.5	15.0	48	139	48			2
3.				44.5	26.0	48	125	48			2
4.				44.5	40.0	48	105	48			2
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P/P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow O. Mcfd
1	11.82	18.36	56.2	1.009	1.195	1.000	262
2	11.82	29.42	57.7	1.012	1.195	1.000	421
3	11.82	38.73	57.7	1.012	1.195	1.000	554
4	11.82	48.04	57.7	1.012	1.195	1.000	687
5							

NO.	P ₁	Temp. °R	Z	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.0824	511	1.34	1.0	dry gas	dry	.700	XXXXXX	682	382
2	.0846	508	1.33	1.0				XXXXXX		
3	.0846	508	1.33	1.0						
4	.0846	508	1.33	1.0						
5										

NO.	P ₁ ²	P ₂ ²	P ₂ ² - P ₁ ²	P ₂ ² / (P ₂ ² - P ₁ ²)	P ₂ ² / (P ₂ ² - P ₁ ²) ^{1/2}
1	193	37.249			
1		191	36.481	.768	
2		187	34.969	2.280	
3		184	33.856	3.393	
4		170	28.900	8.349	
5					

(1) $\frac{P_2^2}{P_2^2 - P_1^2} = \frac{37.249}{7}$

(2) $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^{1/2} = 2.546$

AOF = 0 $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^{1/2} = 2037$

Gas Liquid Hydrocarbon Ratio dry gas Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons dry Deg.

Specific Gravity Separator Gas .700 XXXXXXXXXX

Specific Gravity Flowing Fluid XXXXXX

Critical Pressure 682 P.S.I.A.

Critical Temperature 382 °R

Absolute Open Flow	2037	Mcfd @ 15.025	Angle of Slope @	Slope, n	.559
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Remarks: *BHP recorder at 3408.5 mid-pt of perfs.

ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT SUPERVISOR FEB 16 1987

Approved By _____

Checked By _____