

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

RECEIVED

Form C-122
Revised 9-1-65

ST
122 file
file

Type Test ☒ Initial MAR 21 1977 ☐ Annual ☐ Special		Test Date 2-22-77		2-1-77 STUD DATE NOT AVAIL					
Company E. L. JR. Roy G. Latham and Barton		Connection None		ABLE					
Pool Loma Ranch Indesignated		Formation Grayburg		Unit M					
Completion Date 2-8-77		Total Depth 1657 1642		Farm or Lease Name Amoco Federal					
Csg. Size 5 1/2		Set At 1623 1614		Well No. 1					
Tlg. Size 2 3/8		Set At 1657 1642		Unit Sec. Twp. Rge. M 9 14 28					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				County Chaves					
Producing Thru Tbg.		Reservoir Temp. °F #		State New Mexico					
Mean Annual Temp. °F		Enro. Press. - P _a		Prover 6" Positive Choke					
H		Gg		M-ler Run					
726 Assumed		% CO ₂		% H ₂ S					
TUBING DATA		CASING DATA		Duration of Flow					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	6 x	12/64	574	70	574	70	576	70	72 hr.
2.	6 x	11/64	673	70	673	70	680	70	1 hr.
3.	6 x	10/64	890	70	890	70	890	70	75 Min.
4.	6 x	14/64	430	70	430	70	430	70	2 hr. 30 mi
5.									24 hrs
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.	.6101		587.2	.9905	1.174	1.077	449		
2.	.5090		686.2	.9905	1.174	1.090	443		
3.	.4173		903.2	.9905	1.174	1.123	492		
4.	.8419		443.2	.9905	1.174	1.059	462		
5.									
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.				
1.	.88	530	1.32	.862	A.P.I. Gravity of Liquid Hydrocarbons				
2.	1.03	530	1.32	.841	Specific Gravity Separator Gas .726 (Assumed)				
3.	1.35	530	1.32	.793	Specific Gravity Flowing Fluid				
4.	.66	530	1.32	.891	Critical Pressure 668 P.S.I.A.				
5.					Critical Temperature 401 R				
P _c 1263.2 P _c ² 1595.7					(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.431$				
					(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.196$				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 530$				
1	589.2	347.2	1248.5						
2	693.2	480.5	1115.2						
3	903.2	815.8	779.9						
4	443.2	196.4	1399.3						
5									
Absolute Open Flow 530 Mcfd @ 15.025					Angle of Slope 63.5		Slope, n .499		
Remarks:									
Approved by Commission:			Conducted By: operator		Calculated By: Rick Pagan		Checked By:		