

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-2-1981	
Company Conoco Inc				Connection None	
Pool Basin Dakota				Unit J	
Completion Date 5/22/81		Total Depth 6999 K.B.		Plug Back TD 6999 K.B.	
Elevation 6602		Farm or Lease Name N.E. Haynes			
Csg. Size 5.5		Wt. 15.5#		Set At 4.950	
Perforations: From 6822 To 6860		Well No. 7E			
Tng. Size 2 3/8		Wt. 4.7#		Set At 1.995	
Perforations: From — To —		Unit Sec. Twp. Rge. J 10 24N 5W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single / Gas				Packer Set At None	
Producing Thru Tubing				Baro. Press. - P _a 12.2	
Reservoir Temp. °F 115°				Mean Annual Temp. °F 55°	
L 6940'		H 6940'		Prover 3 1/4"	
Gg .700		% CO ₂		% H ₂ S	
Meter Run		Taps			
County Rio Arriba		State N.M.			

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	7 DAYS						1143#		1150#		S.I.
1.	3/4" x 2" Choke						106#	63°F	350#		3 HOURS
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	9.604		118.2	.9971	1.195	N/A	1352.6
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

$P_c = 1162.2$ $P_c^2 = 1350708.84$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1350708.8}{1350708.8 - 48229.6} = 1.037$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.027$	
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²				
1	13971.2	219.6	48229.6	1302479.2				
2								
3								
4								
5								

$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1389.12$

1389.12 Mcfd @ 15.025

Absolute Open Flow **1389.12** Mcfd @ 15.025 Angle of Slope θ _____ Slope, n **.75**

Remarks: **109' Blow Down Line, 14.5' K.B.**

Approved By Commission:	Conducted By:	Calculated By: R. Farmer	Checked By: R. Farmer
-------------------------	---------------	------------------------------------	---------------------------------