

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

Form C-122
Revised 6-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 2/4/81	
Company: Conoco Inc.		Connection: None	
Pool: Basin		Formation: Dakota	
Completion Date: 1/12/81		Total Depth: 6,910	Pug Back TD: 6,899
Elevation: 6,531 G.L.		Farm or Lease Name: N.E. Haynes	
Csg. Size: 5.5"	Wt.: 15.5	d: 5.22	Set At: 6,910'
Perforations: From 6,742' To 6,870'		Well No.: 1 E	
Trq. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 6,808.42
Perforations: From None To		Unit: 0 Sec. 9 Twp. 24N Rge. 5W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single / Gas		Packer Set At: None	
Producing Thru: Tubing		County: Rio Arriba	
Reservoir Temp. °F: 112°		State: N.M.	
Mean Annual Temp. °F: 55°		Baro. Press. - P _a : 12.2	
L: 6793	H: 6793	Gg: .620	% CO ₂ : % N ₂ : % H ₂ S:
Prover: 3/4"		Meter Run: Taps: 	

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	S.I. 7 DAYS						1586#		1600#		S. I.
1.	3/4" x 2" choke						58#	60°	661#		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		70.2	1.000	1.270	N/A	856.235
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	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 1593.2 P _c ² 2554243				
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	4928.04	130.821	17114.15	2537128
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0067$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 860.51$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.005$$

Absolute Open Flow: 860.51 Mcfd @ 15.025	Angle of Slope: 75
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Remarks: **14.5 K.B.**

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