

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 4/27/80	
Company Conoco Inc.				Connection None			
Pool Basin				Formation Dakota		Unit L	
Completion Date 4/23/80		Total Depth 6968.5		Plug Back TD 6855.82		Elevation 6631	
Farm or Lease Name N.E. Haynes		Well No. 3 E					
Csg. Size 5.5	Wt. 15.5 #	d 5.22	Set At 6928.56	Perforations: From 6731 To 6741 From 6755 To 6802		Unit Sec. Twp. Rje. L 16 24 5	
Thg. Size 2 3/8	Wt. 4.7 #	d 1.995	Set At 6751 K.B.	Perforations: From Open Ended To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 111° F		Mean Annual Temp. °F 55°		Baro. Press. - P _a 11.7	
State N.M.							
L 6737'	H 6737'	Gg .690	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4.028
						Taps Flange	

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							1732 #		1732 #		S.I.
1.	4.028" x 1.250"			55.9	5.5 S.R.	50°	55.9		365 #		24 hrs.
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	7.469	47.69		1.010	1.204		433.058
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

NO.	P _t	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	4489	69.0	2999824	4762.38	2995061
2.					
3.					
4.					
5.					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0015$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 433.443$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.001$

Absolute Open Flow 433.443 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: **Infill well**

Approved By Commission:	Conducted By: RAF.	Calculated By: R. A. F.	Checked By:
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