

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: 3/3/1983	
Company: Conaco Inc			Connection: New		
Pool: Ballard			Formation: Picture Cliffs		
Completion Date: 1/18/1983		Total Depth: 2580	Plug Back TD: 2481	Elevation: 6673'	Farm or Lease Name: N.E. HAYNES
Csg. Size: 3 1/2	Wt.: 9.5#	d: 2.992	Set At:	Perforations: From 2376 To 2383	Well No.: 15
Thg. Size:	Wt.:	d:	Set At:	Perforations: From To	Unit Sec. Twp. Rge.: a 21 24N 5W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single/Gas Tubingless				Packer Set At:	County: Rio Arriba
Producing Thru Casing: 2364	Reservoir Temp. °F: 92° @ 2367	Mean Annual Temp. °F: 50°F	Baro. Press. - P _a : 12.2	State: New Mexico	
L: 2364	H: 2364	G _g : .690	% CO ₂	% N ₂	% H ₂ S
Prover		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F	
SI	5.1 7 DAYS								518.0#	52°F	S.I.	
1.	2.000 x .750					51.0" H₂O	45°F			2.0#	45°F	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1		104.0					Estimated 94.0
2							
3							
4							
5							

NO.	P _r	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 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 _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	530.2	28112.04	10.731	281101.3	
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.000}{1.000 - 0.000} = 1.000$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 94.0$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.000$$

Absolute Open Flow: 94.0 Mcfd @ 15.025	Angle of Slope θ : _____	Slope, n: .85
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Remarks: **94.0 is the best estimated rate at the end of the 3 hour flow period**

Approved By Commission:	Conducted By: R. A. Farmer	Calculated By: R. A. Farmer	Checked By: [Signature]
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