NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 10-1-65

RECEIVED
JAN 31 1983
OIL CON. DIV.
DIST. 3

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 1/24/1983	
Company: Conoco Inc.		Connection: New			
Pool: Ballard		Formation: Picture CLiff			Unit: M
Completion Date: 1/11/1983	Total Depth: 2400		Plug Back TD: 2314	Elevation: 6784	Farm or Lease Name: AXI Apache F
Csg. Size: 3 1/2 / Wt.: 9.3 / d: 2.992 / Set At: 2370			Perforations: From 2256 To 2269		Well No.: 8
Tbg. Size / Wt. / d / Set At			Perforations: From To		Unit: M / Sec.: 11 / Twp.: 23N / Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single/Gas			Packer Set At		County: Rio Arriba
Producing Thru: Csg.	Reservoir Temp. °F: 88° @ 2262 KB.	Mean Annual Temp. °F: 50° F	Baro. Press. – P_a: 12.2		State: New Mexico
L: 2246 / H: 2246 / Gg: .690	% CO_2	% N_2	% H_2S	Prover: 3/4" x 6"	Meter Run: Choke Nipple / Taps

FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI							439 #	45° F	SI, 180 hrs.
1.	3/4" x 6" Choke						29 #	52° 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	11.00		41.2	1.008	1.204	N/A	550.91
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 451.2 P_c^2 203581.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1697.4	18.60	346.121	203235
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.001$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0007$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 550.422$

Absolute Open Flow 550.422 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: 12' K.B. Temporary Tubingless Completion

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