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: 11/2/1981	
Company: Conoco Inc.	Connection: New			
Pool: Ballard	Formation: Picture Cliff			Unit: O
Completion Date: 8/28/1981	Total Depth: 2420'	Plug Back TD: 2419'	Elevation: 6819	Farm or Lease Name: Ayi Apache
Prod. Size: 3 1/2 / Wt.: 9.3# / d: / Set At: 2414'		Perforations: From 2286 To 2298		Well No.: A-10
Tbg. Size: / Wt.: / d: / Set At:		Perforations: From To		Unit: O / Sec.: 10 / Twp.: 23 / Rge.: 5
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At: None		County: Rio Arriba
Producing Thru: Casing	Reservoir Temp. °F: 86 1/2° 2282'	Mean Annual Temp. °F: 55°	Baro. Press. – P_a: 12.2	State: New Mexico
L: 2279' / H: 2279 / Gg: .620	% CO_2: / % N_2: / % H_2S:	Prover: 3/4"	Meter Run:	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	38 DAYS						482#	86°	S.I.
1.	3/4" Choke Prover						126.0#	59°	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	9.604		133.2	1.001	1.270	N/A	1,687.3
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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OIL CON. COM.
DIST. 3

P_c 494.2 P_c^2 244233.64

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1	1.9099	51.66	2987.78	241245.76
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.01$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.007$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1699.9$

Absolute Open Flow: 1699.9 Mcfd @ 15.025	Angle of Slope θ:	Slope, n: .75

Remarks:

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