NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12-18-79	
Company: Merrion and Bayless		Connection:			
Pool: WAW Fruitland/Pic. Cliffs		Formation: Pictured Cliffs			Unit:
Completion Date: 12/10/79	Total Depth: 1285 ft.		Plug Back TD: 1251 ft.	Elevation: 6055	Farm or Lease Name: Chaco Limited
Csg. Size: 2-7/8" / Wt.: 10.5#/ft. / d: 2.091 / Set At: 1272			Perforations: From 1186' To 1202.5'		Well No.: 2-J
Tbg. Size: 1" / Wt.: 1.72#/ft. / d: 1.049 / Set At: 1251			Perforations: From To		Unit: B / Sec.: 1 / Twp.: 26N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At:		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 82° @ 1285		Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2 PSIA	State: N.M.
L: 1251 / H: 1251 / Gg: 0.65			% CO_2: / % N_2: / % H_2S:	Prover: 2"	Meter Run: / Taps:

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F
SI						
1.	2"		1/2"	27	–	–
2.						
3.						
4.						
5.						

TUBING DATA / CASING DATA

NO.	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	220	–		–	
1.	27	–	150	–	5-1/2 Hr
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	4.279		39.2	1.000	1.240	1.000	208
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 232 P_c^2 53824

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1537	89	7921	45903
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{53824}{45903}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.145$

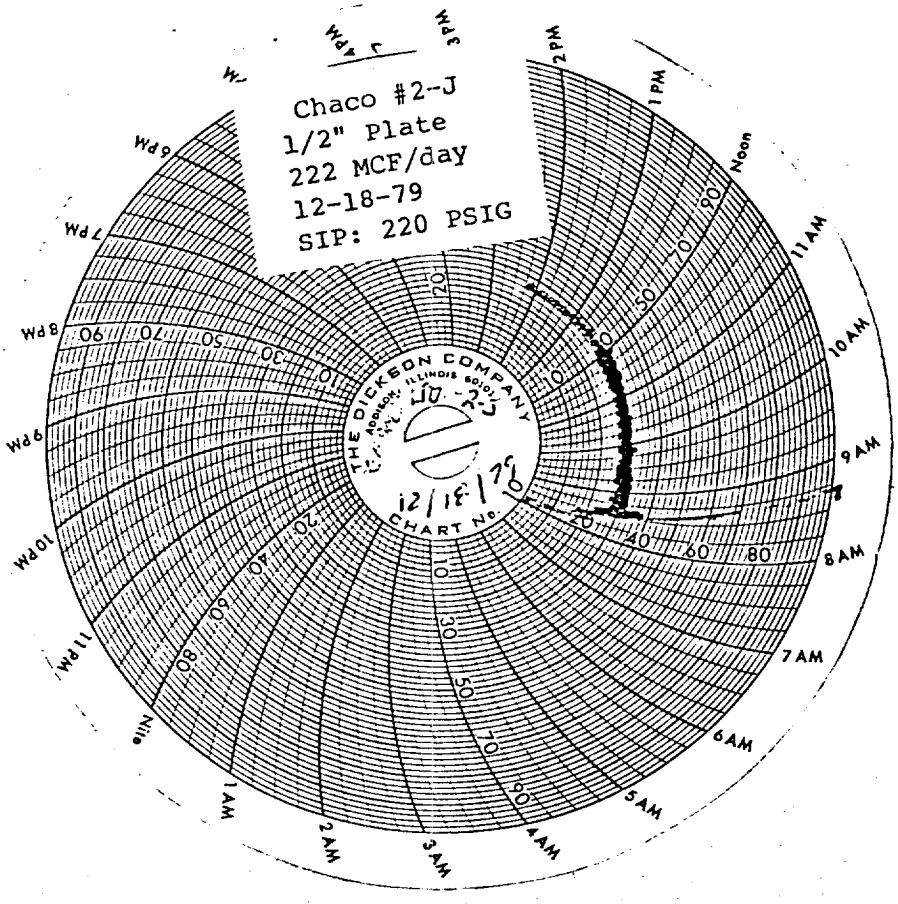
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 238

RECEIVED
JAN 21 1980
OIL CON. COM.
DIST. 3

Absolute Open Flow 238 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Steven S. Dunn	Steven S. Dunn	


Chaco #2-J
1/2" Plate
222 MCF/day
12-18-79
SIP: 220 PSIG
THE DICKSON COMPANY
CHART No.
12 PM
1 PM
2 PM
3 PM
4 PM
5 PM
6 PM
7 PM
8 PM
9 PM
10 PM
11 PM
Mid
1 AM
2 AM
3 AM
4 AM
5 AM
6 AM
7 AM
8 AM
9 AM
10 AM
11 AM
Noon