MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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OIL CON. COM.
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Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 2-27-72	
Company: Continental Oil Company	Connection: Unconnected			Unit:
Pool: Otero	Formation: Chacra			
Completion Date: 2-27-72	Total Depth: 5300' RB	Plug Back TD: 5266' RB	Elevation: 6704' GR	Farm or Lease Name: AXI Apache "J"
Csg. Size: 5 1/2 / Wt.: 14# / d: 5.012 / Set At: 5299' RB		Perforations: From 3728 To 3748'		Well No.: 25
Tbg. Size: 1.66" / Wt.: 2.40# / d: 1.380 / Set At: 3761' GRD		Perforations: From To		Unit: A / Sec.: 7 / Twp.: 25 / Rge.: 5
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas-Gas Dual		Packer Set At: 4988' GRD		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: 97° @ 3738' RB	Mean Annual Temp. °F: 50°	Baro. Press. – P_a: 12.2	State: New Mexico
L: 3761 / H: 3761 / Gg: .680	% CO_2: ---	% N_2: ----	% H_2S: ---	3/4" Choke Nipple

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							641	50°	685	50°	SI 7 Days
1.	3/4" Choke Nipple		54			48°	54	48°	292		3 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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604		66.2	1.012	1.213	1.000	780
2.							
3.							
4.							
5.							

NO.	P_r	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 697.2 P_c^2 486.1

NO	P_t	P_w	P_t^2	$P_c^2 - P_w^2$
1		304.2	92.537	393.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2350$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1715$

AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 914$

Absolute Open Flow 914 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	E. B. Errett	E. B. Errett	D. B. Barnes

NMOCC(Aztec)3, BEA, File, Humble Oil