NEW MEXICO OIL CONSERVATION COMMISSION

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: 9/25/81	
Company: JACK A. COLE		Connection:			
Pool: Ballard Picture Cliffs		Formation: Picture Cliffs			Unit:
Completion Date: 9/16/81	Total Depth: 3300'		Plug Back TD: 3224'	Elevation: 7500'GL	Farm or Lease Name: Indian Bend
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 3268'			Perforations: From 3186' To 3202'		Well No.: 2
Tbg. Size: 1.660 / Wt.: 2.40 / d: 1.380 / Set At: 3210'			Perforations: From To		Unit: A / Sec.: 26 / Twp.: 23N / Rge.: 3W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At: NONE		County: Sandoval
Producing Thru: Tubing	Reservoir Temp. °F: 100@ 3300'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0		State: New Mexico
L: 3210' / H: 3210' / Gg: 0.6	% CO_2: --	% N_2: --	% H_2S: --	Prover: -- / Meter Run: -- / Taps: --	

FLOW DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					600		610		8days
1.	3/4" THC				45		325		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	12.3650		87	1.0000	1.0000	1.0000	1076
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 _____ XXXXXXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 622 P_c^2 386,884

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		337	113,569	273,315
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4155$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3436$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,446$

Absolute Open Flow 1,446 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jerold Brooks	Ewell N. Walsh	