OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: II-9-83	
Company: SHERMAN F. WAGENSELLER		Connection: EPNG		
Pool: SOUTH BLANCO PICTURED CLIFFS		Formation: PICTURE CLIFF		Unit
Completion Date: 10-29-83	Total Depth: 3200	Plug Back TD: 3132	Elevation: 7360 gr	Farm or Lease Name: MOBIL APACHE
Csg. Size: 4 1/2 / Wt.: 10.6 / d: 4.052 / Set At: 3172		Perforations: From 3052 To 3077		Well No.: 20
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 3111		Perforations: From To 3111		Unit: P / Sec.: 17 / Twp.: 23 / Rge.: 2
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single		Packer Set At		County: R.A.
Producing Thru: TBG	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State: N.M.
L	H	Gg	% CO_2	% N_2 / % H_2S / Prover / 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI		.750				802		821		7 days
1.			41		60			137		3Hrs.
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		53	1.000	.9608	1.009	635
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 .650 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 833 P_c^2 693889

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		286	81796	612093
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1336$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1125$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 706$

Absolute Open Flow 706 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Division	Conducted By	Calculated By	Checked By
	C.R. Mann	C.R. Mann	