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: 4/4/85	
Company: M. J. BRANNON	Connection:			
Pool: Basin Dakota	Formation: Dakota		Unit:	
Completion Date: 3/25/85	Total Depth: 6475'	Plug Back TD: 6475'	Elevation: 6677'KB	Farm or Lease Name: Federal 20
Csg. Size: 4.50 / Wt.: 10.50 / d: 4.052 / Set At: 6500'	Perforations: From 6437' To 6456'			Well No.: 1-E
Tbg. Size: 2-3/8 / Wt.: 4.70 / d: 1.995 / Set At: 6380'	Perforations: From Open To Ended			Unit: G / Sec.: 20 / Twp.: 25N / Rge.: 9W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At:			County: San Juan County
Producing Thru: Tubing	Reservoir Temp. °F: 150@ 6525	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6380	6380	0.60						

	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					1300		1075		7 days
1.	3/4" THC				50		900		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		62	1.0000	1.0000	1.0000	767
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 1312 P_c^2 1,721,344

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1087	1,181,569	539,775
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.1890$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.3864$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,830$

Absolute Open Flow 1,830 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bill McCown	Ewell N. Walsh	