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: 7/23/81	
Company: M. J. Brannon		Connection: El Paso Natural Gas			
Pool: Basin Dakota		Formation: Dakota			Unit
Completion Date: 7/10/81	Total Depth: 6610'	Plug Back TD: 6545'	Elevation: 6689'	Farm or Lease Name: Federal 20	
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6609		Perforations: From 6405 To 6439		Well No.: 1-R	
Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995 / Set At: 6372'		Perforations: From Open To Ended		Unit: J- Sec.: 20 Twp.: 25N Rge.: 9W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: 150@	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
6372	6372	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						1425		1430		8 day
1.	3/4"	THC				100	60	600		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		112	1.0000	1.0000	1.0000	1,385
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

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DIST. 3

P_c 1442 P_c^2 2,079,364

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		612	374,544	1,704,820
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2196$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1606$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,607$

Absolute Open Flow 1,607 Mcfd @ 15.025 | Angle of Slope θ – | Slope, n 0.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Gil Nelson	Ewell N. Walsh	