NEW MEXICO OIL CONSERVATION COMMSSION

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	
Company: Dietrich Exploration Co.	Connection			
Pool: WAW PC	Formation: Picture Cliff			Unit
Completion Date: 5-24-78	Total Depth: 1500	Plug Back TD: 1449	Elevation: 6103 GR	Farm or Lease Name: Federal 27
Csg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At		Perforations: From 1358 To 1366; From 1368 To 1374		Well No.: 7
Tbg. Size: NA / Wt. / d / Set At		Perforations: From To		Unit: E / Sec.: 27 / Twp.: 27N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single tubing less		Packer Set At: NA		County: San Juan
Producing Thru	Reservoir Temp. °F: 82 @ 1498	Mean Annual Temp. °F	Baro. Press. – P_a: 12.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.68						

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							262		
1.	2 x 6 x .75	45		52			45	52°	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	11		57	1.008	1.213	1.008	773
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.085	512	1.365	.985
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 274 P_c^2 75076

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		57	3249	71827
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.053$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.045$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 808$

Absolute Open Flow 808 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	C. D. Moore	W. T. Jones	