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: 10-18-77	
Company: Dietrich Exploration Co.		Connection:			
Pool: WAW Pictured Cliff		Formation: Pictured Cliff			Unit:
Completion Date: 10-11-77	Total Depth: 1460		Plug Back TD: 1429	Elevation: 6135	Farm or Lease Name: Federal
Csg. Size: 2 7/8 / Wt.: 6.4 / d: / Set At: 1460			Perforations: From 1396 To 1406		Well No.: 5
Tbg. Size: none / Wt.: / d: / Set At:			Perforations: From To		Unit: G / Sec.: 27 / Twp.: 27N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Tubing - less comp.			Packer Set At: N/A		County: San Juan
Producing Thru: 2 7/8	Reservoir Temp. °F: 80 @ 1460	Mean Annual Temp. °F:	Baro. Press. – P_a:		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.620						

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					210	73	210	73	
1.	2x6x.75				14	73	14	-	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		26	.9877	1.270	1.020	366
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.0387	533	1.42	.993
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 222 P_c^2 49284

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		14	196	49088
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.004$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0034$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 367$

Absolute Open Flow 367 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Wendell Durrett	William T. Jones	