3-NMOCC (Aztec) 1-Tenneco (Castle) 1-EPNG (Bob Clark) 1-File /

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: 3-3-77	
Company: Dugan Production Corp.		Connection:			
Pool: NIPP - Pictured Cliffs		Formation: Pictured Cliffs		Unit:	
Completion Date: 2-24-77	Total Depth: 1380'	Plug Back TD: 1340'	Elevation: 6292' GR	Farm or Lease Name: George Washington	
Csg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 1374'		Perforations: From 1262' To 1282'		Well No.: 2	
Tbg. Size: 1-1/4" / Wt.: 2.3# / d: 1.380 / Set At: 1265'		Perforations: From Open End To		Unit: P / Sec.: 35 / Twp.: 26N / Rge.: 12W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At:		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico	

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

	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					110		227		7 days
1.									
2.									
3.	1/2" Pos Choke	4		44°			87		3 hrs
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							
2.							
3.	5.4315		16	1.016	.9882	1.000	87
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 239 P_c^2 57,121

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		99	9801	
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2071$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1735$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 102$

Absolute Open Flow 102 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: Medium spray of water during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Charles Hall	Jim L. Jacobs	