3-NMOCC (Aztec) 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: 6-14-77	
Company: Dugan Production Corp.			Connection:		
Pool: Ojo Pictured Cliffs			Formation: Pictured Cliffs		Unit:
Completion Date: 6-7-77	Total Depth: 518'		Plug Back TD: 518'	Elevation:	Farm or Lease Name: Pet Inc
Csg. Size: 3-1/2" / Wt.: 7.7# / d: / Set At: 518'			Perforations: From 468' To 518'		Well No.: 17
Tbg. Size: 1-1/4" / Wt.: 2.3# / d: 1.380 / Set At: 489'			Perforations: From Open End To		Unit: G / Sec.: 26 / Twp.: 28N / Rge.: 15W
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
		.60 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					65		65		7 days
1.									
2.									
3.	5/8" Pos Choke	11		60°			32		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.	8.5417		23	1.0000	1.0000	1.0000	196
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 77 P_c^2 5,928

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		44	1,936	3,992
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4850$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = .85 = 1.3995$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = 274$

Absolute Open Flow 274 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jim Jacobs	Jim Jacobs	