3 NMOCC 1 UV Industries 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: 9-29-77	
Company: Dugan Production Corp.	Connection:			
Pool: WAW - Pictured Cliffs	Formation: Pictured Cliffs			Unit:
Completion Date: 9-22-77	Total Depth: 1460	Plug Back TD: 1405	Elevation: 6201 GR	Farm or Lease Name: Monticello
Csg. Size: 2 7/8" / Wt.: 6.5# / d: / Set At: 1447	Perforations: From 1359 To 1371			Well No.: 1 Y
Tbg. Size: 1 1/4" / Wt.: 2.3# / d: / Set At: 1363	Perforations: From Open End To			Unit: C / Sec.: 3 / Twp.: 26N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas	Packer Set At:			County: San Juan
Producing Thru:	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					225		225		7 days
1.									
2.									
3.	5/8" Pos. Choke	10		57°			47		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		22	1.0029	.9837	1.000	185
4.							
5.							

NO.	P_t	Temp. °R	T_t	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 237 P_c^2 56,169

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		59	3481	5.2688
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0661$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ n .85 = 1.0559

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 195$

Absolute Open Flow 195 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

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