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: 11-12-77	
Company: Dugan Production Corp.		Connection:			
Pool: Wildcat		Formation: Pictured Cliffs		Unit:	
Completion Date: 10-28-77	Total Depth: 1460'	Plug Back TD: 1407'	Elevation: 6059 GR	Farm or Lease Name: Rex	
Csg. Size: 2-7/8 / Wt.: 6.4# / d: / Set At: 1440'		Perforations: From 1352 To 1370		Well No.: 3	
Tbg. Size: 1-1/4 / Wt.: 2.3# / d: / Set At: 1369'		Perforations: From Open To Ended		Unit: D / Sec.: 18 / Twp.: 27 / Rge.: 13	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At:		County: San Juan	
Producing Thru: Tbg	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: NM	

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

	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					236		236		7 days
1.									
2.									
3.	1/2 Pos. Choke				13	60	62		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		25	1.000	.9837	1.000	133
4.							
5.							

NO.	P_r	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 248 P_c^2 61504

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		74	5476	56028
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0977$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = 1.0824$ (n = .85)

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = 143$

Absolute Open Flow 143 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: Very light spray of water at end of test

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Charles Hall	Charles Hall	