STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 4-3-80	
Company: Dugan Production Corp.		Connection:			
Pool: Basin Dakota		Formation: Dakota		Unit:	
Completion Date: 3-27-80	Total Depth: 6210'	Plug Back TD: 6160'	Elevation: 6987' KB	Farm or Lease Name: April Surprise	
Csg. Size: 4-1/2" / Wt.: 11.6 / d: / Set At: 6210'		Perforations: From 6118 To 6128		Well No.: 2	
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: / Set At: 6134		Perforations: From To		Unit: L / Sec.: 30 / Twp.: 24N / Rge.: 9W	
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single - Gas		Packer Set At: 6094' RKB		County: San Juan	
Producing Thru: tbg	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
		.65 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					1710		Packer		7 days
1.									
2.									
3.	5/8" Pos Choke	85.5		60°					4 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		97.5	1.000	.9608	1.000	800
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1722 P_c^2 2,965,284

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2			9520	2,955,764
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0032$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0024$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 802$ .75

RECEIVED
APR 4 1980
OIL CON. COM.
DIST. 3

Absolute Open Flow 802 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n _____

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By: