STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

3 NMOCD
1 File

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
OCT 28 1987
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-19-87	
Company: DUGAN PRODUCTION CORP.			Connection:		
Pool: Wildcat			Formation: Fruitland - Pictured Cliffs		Unit:
Completion Date: 10-7-87	Total Depth: 1850'		Plug Back TD: 1815'	Elevation: 6685' GL	Farm or Lease Name: Phillips
Csg. Size: 2-7/8" / Wt.: 6.4# / d: / Set At: 1836'			Perforations: From 1704' To 1717'		Well No.: 1
Tbg. Size: / Wt.: / d: / Set At:			Perforations: From To		Unit: H / Sec.: 5 / Twp.: 24N / Rge.: 9W
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:

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI									380		7 days
1.											
2.											
3.	7/16" pos. choke								3	65°	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.	4.1423		15	.9952	.9837	1.000	61
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 _____ P_c^2 _____

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

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

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

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

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Mark Brown		Jacobs