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: 5-6-78	
Company: Dugan Production Corp.		Connection:			
Pool: Wildcat		Formation: Pictured Cliffs			Unit:
Completion Date: 4-11-78	Total Depth: 1830'		Plug Back TD: 1771'	Elevation: 5720'	Farm or Lease Name: Five of Diamonds
Csg. Size: 2-7/8 / Wt.: 6.4 / d: / Set At: 1806'			Perforations: From 1708 To 1716		Well No.: #1
Tbg. Size: / Wt.: / d: / Set At:			Perforations: From To		Unit: C / Sec.: 10 / Twp.: 30 / Rge.: 13
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At:		County: San Juan
Producing Thru: csg.	Reservoir Temp. °F: @		Mean Annual Temp. °F:	Baro. Press. – P_a:	State: NM
L: / H: / Gg: .62	% 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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							575		7 days
1.									
2.									
3.	5/8 Pos. Choke						18	57°	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		30	1.003	.9837	1.000	252
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 587 P_c^2 344569

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		30	900	343669
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0026$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n.85} = 1.0022$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = 252$

Absolute Open Flow 252 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: Dry during test

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