3-NMOCC 1-NWP (Randolph) 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: 10-31-78	
Company: Dugan Production Corp.	Connection:			
Pool: Harper Hill Fruitland PC	Formation: Fruitland PC			Unit:
Completion Date: 10-21-78	Total Depth: 1250'	Plug Back TD: 1194'	Elevation: 5511'	Farm or Lease Name: Com
Csg. Size: 2-7/8" / Wt.: 6.5 / d: / Set At: 1240'	Perforations: From 1052 To 1144			Well No.: 2
Tbg. Size: / Wt.: / d: / Set At:	Perforations: From To			Unit: A / Sec.: 2 / Twp.: 29 / Rge.: 14
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: New Mexico

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							350		7 days
1.									
2.									
3.	5/8" Pos. Choke						13	60°	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.	8.54.17		25	1.000	.9837	1.000	210
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 362 P_c^2 131044

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		25	625	130419
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0047$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.85} = 1.0049$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 211$

Absolute Open Flow 211 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	