NEW MEXICO OIL CONSERVATION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 5-11-79	
Company: Dugan Production Corp.	Connection:			
Pool: Harper Hill	Formation: Fruitland - PC			Unit:
Completion Date: 3-15-79	Total Depth: 1250'	Plug Back TD: 1208'	Elevation: 5524' GR	Farm or Lease Name: Winifred
Csg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 1234'		Perforations: From 1137 To 1147		Well No.: 2
Tbg. Size: 1-1/4 / Wt.: 2,4 / d: / Set At: 1152'		Perforations: From Open To Ended		Unit: G / Sec.: 35 / Twp.: 30N / Rge.: 14W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At: 1118'		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
		0.65 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						310		170		
1.										
2.										
3.	5/8"		17		68			170		24 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		29	.9924	.9608	---	236
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 236 Mcfd @ 15.025 Angle of Slope θ _____ Slope _____

Remarks: _____

RECEIVED MAY 16 1979 OIL CON. COM. DIST. 3

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Dugan	Dugan	