3-NMOCC 2-Mountain Fuel (Farmington and Rock Springs) 1-Tenneco 1-NWP (Salt Lake) 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 [x] Special				Test Date: 3-7-78	
Company: Dugan Production Corp.			Connection: New Well		
Pool: Basin Dakota			Formation: Dakota		Unit:
Completion Date: 1-14-78	Total Depth: 6598'		Plug Back TD: 6510'	Elevation: 6115' RKB	Farm or Lease Name: Ms. Nona
Csg. Size: 4-1/2" / Wt.: 10.5# / d: 4.052" / Set At: 6595'			Perforations: From 6398' To		Well No.: #2
Tbg. Size: 1-1/2" / Wt.: 2.9# / d: / Set At: 6469'			Perforations: From Open End To		Unit: A / Sec.: 15 / Twp.: 30N / Rge.: 14W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At:		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0		State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.68				Orifice Meter	4"	Flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Meter PSIG	Meter Diff.	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1940		1940		SIP
1.	4" X 1.000	206	5.5	70°	526		815		12 hr
2.									
3.									
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	15.029	4.7	5.5	.991	1.213	1.057	494
2.							
3.							
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 1952 P_c^2 3,810,304

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		827	683.929	3,126,375
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.21876$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1599$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 573$

Absolute Open Flow 573 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Fred S. Hamrick Garner Kennedy	F. S. H.	