3-NMOCC 1-Mesa (Val Jones) 1-Northwest Pipeline (Prentice) 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: 8-3-76	
Company: Dugan Production Corp.		Connection:			
Pool: Wildcat		Formation: Pictured Cliffs			Unit:
Completion Date: 7-26-76	Total Depth: 2192'		Plug Back TD: 2122'	Elevation: 6821' GR	Farm or Lease Name: Mesa
Csg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 2168'			Perforations: From 1952' To 1974'		Well No.: 1
Tbg. Size: 1-1/4" / Wt.: 2.3# / d: / Set At: 1977'			Perforations: From Open To Ended		Unit: G / Sec.: 16 / Twp.: 24N / Rge.: 8W
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:		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						560		560		7 days
1.										
2.										
3.	5/8" Pos Choke					25	66	250		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		37	.9943	.9837	1.000	309
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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OIL CON. COM.
DIST. 3

P_c 572 P_c^2 327,184

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		262	68,644	258,540
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2655$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2215$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 377$

Absolute Open Flow 377 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

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