3-NMOCD 1-El Paso 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: [xx] Initial [ ] Annual [ ] Special				Test Date: 8-23-79	
Company: Dugan Production Corp.		Connection:			
Pool: WAW Fruitland PC		Formation: Pictured Cliffs			Unit:
Completion Date: 8-10-79	Total Depth: 1265'	Plug Back TD: 1200'	Elevation: 6221' GR		Farm or Lease Name: Red Mac
Csg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 1240'		Perforations: From 1154 To 1159			Well No.: #2R
Tbg. Size: 1-1/4" / Wt.: 2.4# / d: 1.380 / Set At: 1150'		Perforations: From Open End To			Unit: A / Sec.: 3 / Twp.: 25N / Rge.: 12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At:			County: San Juan
Producing Thru: tbg	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a:		State: New Mexico
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					182		182		7 days
1.									
2.									
3.	5/8" Pos. Choke	3		70°			132		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		15	.9905	.9382	1.0000	125
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 194 P_c^2 37,636

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		144	20,736	16,900
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2270$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9750$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 247$

Absolute Open Flow 247 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

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