3-NMOCC 1-EPNG (Clark) 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: 12-5-75	
Company: Dugan Production Corp.		Connection:			
Pool: Undesignated		Formation: Pictured Cliffs			Unit:
Completion Date: 11-26-75	Total Depth: 1202' GR		Plug Back TD: 1173' GR	Elevation: 6135' GR	Farm or Lease Name: Red Mac
Csg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 1189'			Perforations: From 1111' To 1116'		Well No.: 3
Tbg. Size: 1-1/4" / Wt.: 2.4# / d: / Set At: 1103'			Perforations: From Open Ended To		Unit: D / 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: 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					190		222		7 days
1.									
2.									
3.	5/8" Pos Choke	1		58°			20		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		13	1.002	.9837	1.000	109
4.							
5.							

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DIST. 3

NO.	P_t	Temp. °R	n	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 202 P_c^2 40,804

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		32	1024	39,780
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0257$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n\ .85} = 1.0217$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 111$

Absolute Open Flow 111 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

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