3-NMOCC 3-NW Pipeline (Randolph, Broughton, Grace) 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: 11-17-77	
Company: Dugan Production Corp.		Connection:			
Pool: Gobernador P.C.		Formation: Pictured Cliffs			Unit:
Completion Date: 10-25-77	Total Depth: 5758'		Plug Back TD: 5720	Elevation: 6401 GR	Farm or Lease Name: Sherman Edward
Csg. Size: 5-1/2 / Wt.: 15.5 / d: / Set At: 5728			Perforations: From 3212 To 3380		Well No.: 2B
Tbg. Size: 1-1/4 / Wt.: 2.4 / d: / Set At: 3373			Perforations: From 3360 To 3373		Unit: O / Sec.: 3 / Twp.: 29 / Rge.: 5
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas - Gas			Packer Set At: 5200'		County: Rio Arriba
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

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					1065		1090		7 Days
1.									
2.									
3.	3/4 Pos. Choke				57	56	490		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.	12.365		69	1.004	.9837	1.007	849
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

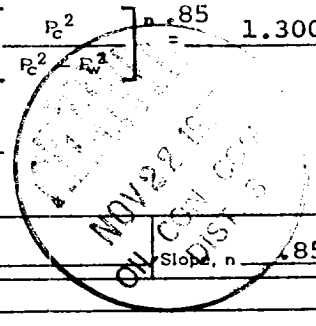
P_c 1102 P_c^2 1214404

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		502	252004	962400
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2618$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.85} = 1.3001$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = 1103$



Absolute Open Flow 1103 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

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