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	
Company: Mesa Petroleum Co.	Connection			
Pool: Blanco	Formation: Mesaverde		Unit	
Completion Date: 4-12-75	Total Depth: 4890' KB	Plug Back TD: 4833' KB	Elevation: 5851' GL	Farm or Lease Name: State
Csg. Size: 4-1/2" / Wt.: 10.5# / d: 4.052" / Set At: 2458' to 4885'	Perforations: From 4006' To 4796'			Well No.: 3A
Tbg. Size: 2" / Wt.: 4.7 / d: 1.995" / Set At: 4803'	Perforations: From 4793' To 4803'			Unit: — / Sec.: 32 / Twp.: 29N / Rge.: 8W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas Well		Packer Set At: 2506' KB		County: San Juan
Producing Thru: Tbg	Reservoir Temp. °F: 150 @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
4803		0.68						

	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					701	-	Packer		7Day S.I.
1.					180	420	"		1 hr.
2.	1.995 x 0.75"				168	420	"		2 hr.
3.					166	440	"		3 hr.
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.	12.365		178	1.016	1.195	1.022	2731
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1				
2.	0.266	504	1.309	0.957
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.68 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
Critical Temperature 385 R _____ R

P_c 713 P_c^2 508,369

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2	31,684	410	168,100	340,269
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.494$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.348$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,681$

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OIL CON. COM.
DIST. 3

Absolute Open Flow 3,681 Mcfd @ 15.025 Angle of Slope θ _____ Slope n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jack Dunning	R. J. Flaker	