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: 7/3/78	
Company: Mesa Petroleum Co.		Connection: El Paso Natural Gas			
Pool: Blanco		Formation: Mesaverde		Unit	
Completion Date: 6/15/78	Total Depth: 5850'	Plug Back TD: 5844'	Elevation: 6687' GL	Farm or Lease Name: Johns [redacted]	
Csg. Size: 4 1/2" / Wt.: 10.5# / d: / Set At: 5845'		Perforations: From 4937' To 5818'		Well No.: 1A	
Tbg. Size: 2 3/8" / Wt.: / d: / Set At: 5697'		Perforations: From To		Unit: F / Sec.: 18 / Twp.: 32N / Rge.: 11W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At		County: San Juan	
Producing Thru: Tbg.	Reservoir Temp. °F @	Mean Annual Temp. °F: 80 degrees	Baro. Press. – P_a	State: NM	
C	H	Gg	% 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							946		947		
1.	2"		.75"	Pitot Tube		80°	327		797	80°	4 hrs
2.											
3.											
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		Based on NMOCC Manual for Pitot Tube Testing Procedures.					
2.							
3.				.9813	.9608	1.028	4063
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 .650 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c _____ P_c^2 _____

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

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.4679$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5413$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10,325$

Absolute Open Flow 10,325 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Mesa Petroleum Co.	Dave Green	C.R. Wagner-EPNG

USGS (2), NMOCC (5), Dvr. Office, J. Archer, EPNG (2), D&M, M&M, Les Carnes
Mike Moore