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: 4-27-82	
Company: MESA PETROLEUM CO.			Connection: EPNG		
Pool: BASIN DAKOTA			Formation: DAKOTA		Unit: I
Completion Date: 4-9-82	Total Depth: 7615.		Plug Back TD: 7516.	Elevation: 6710.	Farm or Lease Name: FEDERAL
Csg. Size: 5.500 / Wt.: 15.5 / d: 4.950 / Set At: 7557.			Perforations: From 7498. To 7524.		Well No.: 13E
Tbg. Size: 2.063 / Wt.: 3.2 / d: 1.750 / Set At: 7235.			Perforations: From 7543. To 7550.		Unit: I / Sec.: 21 / Twp.: 26N / Rge.: 6W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: FLOWING			Packer Set At: 7210.		County: SAN JUAN
Producing Thru: TUBING	Reservoir Temp. °F: 172. @ 7498.		Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
7498.	7498.	0.650	0.	0.	0.	0.	0.	

	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					1815.	65.			168.0
1.	2.00 X 0.750	340.	0.	71.	340.	71.	0.	0.	3.0
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	10.94	0.	353.2	0.9896	1.2403	1.0343	4907.
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.53	531.	1.42	0.935
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0. Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 0. Deg.

Specific Gravity Separator Gas 0.650 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX 0.650

Critical Pressure 670. P.S.I.A. 670. P.S.I.A.

Critical Temperature 374. R 374. R

P_c 1825.5 P_c^2 3332.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	125.	1099.	1207.	2125.
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5681$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4013$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6876.$

Absolute Open Flow 6876. Mcfd @ 15.025 Angle of Slope θ 53.1 Slope, n 0.750

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Charlie Jones	T. K. Brock	George Dejon