NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AN ONE POINT BACK PRESSURE TES OR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 3-12-81	
Company: Mesa Petroleum Co.	Connection: Unconnected			
Pool: Undesignated Abo	Formation: Abo		Unit	
Completion Date: 3-12-81	Total Depth: 4350	Plug Back TD: 4289	Elevation: 3848	Farm or Lease Name: Coyote Federal
Csg. Size: 4 1/2 / Wt.: 10.5 / d / Set At: 4349	Perforations: From 3610 To 3867			Well No.: 4
Tbg. Size: 2 3/8 / Wt.: 4.7 / d / Set At: 3779	Perforations: From Open Ended To			Unit: E / Sec.: 20 / Twp.: 7S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: None			County: Chaves
Producing Thru: Tbg	Reservoir Temp. °F: 104 @ 4350	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L: 3779 / H: 3779 / Gg: .62	% CO_2:	% N_2: 6	% H_2S:	Prover: 2" Orifice Well Tester / 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						820		850		48 hr
1.	2" Orifice	1 1/4	4		50	800	80	820		1/2 hr
2.	Well	1 1/4	12		50	750	80	770		1 hr
3.	Tester	1 1/4	18		50	700	80	730		1/2 hr
4.		1 1/4	34		50	580	80	620		3/4 hr
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	449	2" orifice well tester		1.0098	.9837		446
2.	840			1.0098	.9837		834
3.	1083			1.0098	.9837		1076
4.	1780			1.0098	.9837		1768
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 _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 850 P_c^2 723

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		820	672	51
2		770	593	130
3		730	533	190
4		620	384	339
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.5615$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.3813$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2900$

Absolute Open Flow 2900 Mcfd @ 15.025 | Angle of Slope θ 54.6 | Slope, n .71

Remarks:

Approved by Commission:	Conducted By: E.L.B. E. L. Buttross, Jr.	Calculated By: E.L.B. E. L. Buttross, Jr.	Checked By: