NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED BY
OCT 20 1983
O. C. D.
ARTESIA, OFFICE

c/ST
F.le

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-23-83	
Company: Amoco Production Company			Connection: To Atmosphere		
Pool: ~~Loving Atoka North~~			Formation: Atoka		Unit: L
Completion Date: 8-24-83	Total Depth: 11600		Plug Back TD: 11598	Elevation: 3042	Farm or Lease Name: Cimarron RB Fed
Csg. Size: 4.500 / Wt.: 15.1 / d: 3.826 / Set At: 11600			Perforations: From 11495 To 11507		Well No.: 1
Tbg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 11465			Perforations: From 0 To 0		Unit: 34 Sec.: 22 Twp.: 28 Rge.:
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9353		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 182 @ 11501	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11501	11501	0.585	0.54	1.16	0	0	2.9	Flange

	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					5640	60			72.0
1.	2.90 x 1.500	500	10.0	100	5336	62	0	0	0.7
2.	2.90 x 1.500	500	17.0	100	5202	62	0	0	0.7
3.	2.90 x 1.500	500	33.0	100	4922	62	0	0	0.7
4.	2.90 x 1.500	500	69.0	100	4425	62	0	0	0.7
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	11.23	71.64	513.2	0.9636	1.3074	1.0307	1045
2.	11.23	93.40	513.2	0.9636	1.3074	1.0307	1362
3.	11.23	130.14	513.2	0.9636	1.3074	1.0307	1898
4.	11.23	188.18	513.2	0.9636	1.3074	1.0307	2745
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	0.76	560	1.60	0.941
2.	0.76	560	1.60	0.941
3.	0.76	560	1.60	0.941
4.	0.76	560	1.60	0.941
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 0.585 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.585
Critical Pressure 674 P.S.I.A. 674 P.S.I.A.
Critical Temperature 350 R 350 R

P_c 5653.2 P_c^2 31959

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	28614	5351	28635	3324
2	27198	5218	27230	4729
3	24356	4941	24410	7548
4	19698	4449	19797	12162
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6278$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0565$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5644$

Absolute Open Flow 5644 Mcfd @ 15.025 | Angle of Slope θ 53.3 | Slope, n 0.746

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jarrel W. Testing	Barbara Wagner	Winston Smith