Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

RECEIVED
OCD ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator ELK OIL COMPANY				Lease or Unit Name SE STATE	
Type Test ☐XX Initial ☐ Annual ☐ Special				Test Date 05/21/01	Well No 4
Completion Date 5/10/01	Total Depth 5987	Plug Back TD		Elevation	Unit Ltr - Sec. - TWP - Rge 23 - 9S - 26E
Csg. Size 5.5 / Wt. 17 / D 4.89 / Set At 5987		Perforations: From: 5787 To: 5797			County CHAVES
Tbg. Size / Wt. / D / Set At		Perforations: From: To			Pool FOOR Ranch Penn
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single SINGLE			Packer Set At 5978		Formation CISCO
Producing Thru CASING	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press - P_a 13.2		Connection Pipeline

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
		0. 65	0.2721	3.4366	0.0		4 inch	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	4"							1450		
1.	4"	2.125	219	10	79			1150		1 Hour
2.	4"	2.125	232	28	74			950		1 Hour
3.	4"	2.152	252	51	73			720		1 Hour
4.	4"	2.125	276	69	74			560		1 Hour
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.	27.02	48.2	232.2	0.9822	1.2403	1.0200	1618
2.	27.02	82.9	245.2	0.9868	1.2403	1.0219	2800
3.	27.02	116.3	265.2	0.9877	1.2403	1.0239	3942
4.	27.02	141.3	289.2	0.9868	1.2403	1.0260	4793
5.							

No.	P_r	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 0.65 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1484.1 P_c^2 2203

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	1181.7		1396.4	806.2
2.	989.6		979.3	1223.2
3.	780.7		609.6	1593.0
4.	652.5		425.7	1776.9
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1484.1 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]$ = 2203

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 6412

Absolute Open Flow 6412 Mcfd@ 15.025 Angle of Slope 36.4 Slope, n 1.35

Remarks: Choke Sizes: Q_1=12/64 Q_2 = 18/64 Q_3 =25/64 Q_4 = 33/64

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	LARRY MOSSBARGER	MIKE KELLY

CAOF PLOT