STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

RECEIVED BY
SEP 23 1983
O. C. D.
ARTESIA, OFFICE

45F
F. le

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8/5/83	
Company: ELK OIL COMPANY		Connection: Air			
Pool: Four Ranch Pe Penn.		Formation: Montoya		Unit	
Completion Date: 8-2-83	Total Depth: 6150	Plug Back TD: 6110	Elevation: 3816 GR	Farm or Lease Name: Viking St Com	
Csg. Size: 5 1/2 / Wt.: 15.5 / d / Set At: 6150		Perforations: From 5957 To 6016		Well No.: 2	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d / Set At: 5858		Perforations: From open To ended		Unit: G / Sec.: 19 / Twp.: 9S / Rge.: 27E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 5858		County: CHAVES	
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
						2"		

	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						1956		Packer		
1.	2	X 3/16	250		69	1891				1 hr
2.	2	X 3/16	735		68	1761				"
3.	2	X 1/4	1150		82	1143				"
4.	2	X 5/15	1080		82	1084				"
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	.6082		263.2	.9915	1.2127	1.0266	198
2.	.6082		748.2	.9924	1.2127	1.0826	592
3.	1.0870		1163.2	.9795	1.2127	1.1183	1680
4.	1.672		1093.2	.9794	1.2127	1.1110	2404
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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 2354 P_c^2 5541

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2268	5144	397
2		2111	4456	1085
3		1396	1949	3593
4		1315	1729	3812
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.4536 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.4730

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 3542

Post ED-2
10-7-83
Comp + BH

Absolute Open Flow 3542 Mcfd @ 15.025 | Angle of Slope θ 44 | Slope, n 1.0355

Remarks: Bottom hole pressures recorded with Amerada type gauge.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	Kelly	