KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

TYPE TEST: ☐ Initial ☐ Annual ☐ Special				TEST DATE: 12/27/2006	
COMPANY		LEASE			WELL NO.
Castelli Exploration		Merrill Ranch			1-34
COUNTY	LOCATION	SECTION	TWP	RNG	ACRES
Comanche	NW NE	34	31s	16w	
FIELD	RESERVOIR	PIPELINE CONNECTION			
Shimer	Mississippi	Oneok			
COMPLETION DATE		PLUG BACK DEPTH	4938		PACKER SET AT
12/07/05		TOTAL DEPTH	4950		
CASING SIZE	WT.	ID	SET AT	PERF.	TO
4.500	10.500		4949	4877	4883
TUBING SIZE	WT.	ID	SET AT	PERF.	TO
2.375			4904		
TYPE COMPLETION (Describe)			TYPE FLUID PRODUCTION		
New Well			Gas		
PRODUCING THRU (Annulus/Tubing)			RESERVOIR TEMPERATURE F		BAR PRESS - Pa
annulus			125		14.4 psia
GAS GRAVITY - Gg	% CARBON DIOXIDE		% NITROGEN		API GRAVITY OF LIQUID
0.613	0.100		0.978		
VERTICAL DEPTH (H)			TYPE METER CONN.		METER RUN SIZE
4877			flange		2.017
REMARKS					

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h_w) (h_t)	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS. psig	CASING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN						445	459			73.50	
1.	1.000	52.80	97.60	52	55	428	442				0.8
2.	1.000	58.90	222.00	49	55	410	424				0.8
3.	1.000	62.30	291.70	48	55	395	409				0.8
4.											

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F_b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Mcfd	GOR	G_m
1.	5.073	67.2	80.99	1.2772	1.0078	1.0058	531		0.613
2.	5.073	73.3	127.56	1.2772	1.0107	1.0065	840		0.613
3.	5.073	76.7	149.58	1.2772	1.0117	1.0068	987		0.613
4.									

PRESSURE CALCULATION

RATE NO.	Pt psia	Pc psia	Pw psia	$(Pc)^2$ Thousands	$(Pw)^2$ Thousands	PLOTTING POINTS $(P_c)^2 - (P_w)^2$ Thousands	PLOTTING POINTS Q Mcfd	% SHUT-IN $100\left[\frac{Pw - Pa}{Pc - Pa}\right]$
1.	442.4	459.4	445.2	211.0	198.2	12.9	531.9	96.8
2.	424.4	459.4	431.3	211.0	186.0	25.0	840.8	93.7
3.	409.4	459.4	419.1	211.0	175.6	35.4	987.2	90.9
4.								

INDICATED WELLHEAD OPEN FLOW 3090 Mcfd @ 14.65 psia "n" = 0.626

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the _____ day of _____, 20 _____

Witness (if any)

For Commission

Tribolite Testing Inc.
For Company

Tina Simpson
Checked by