

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev. 8/98)

TYPE TEST:

☒ Open Flow
☒ Deliverability

TEST DATE:

API No. 15-033-21452-00-00

Company Castelli Exploration		Lease Merrill Ranch		Well Number 1-34	
County Comanche	Location NW NE	Section 34	TWP 31s	RNG (E/W) 16w	Acres Attributed
Field Shimer	Reservoir Mississippi	Gas Gathering Connection Oneok			
Completion Date 12/07/05	Plug Back Total Depth 4938	Packer Set at			
Casing Size 4.500	Weight 10.500	Internal Diameter	Set at 4949	Perforations 4877	To 4883
Tubing Size 2.375	Weight	Internal Diameter	Set at 4904	Perforations	To
Type Completion (Describe) New Well	Type Fluid Production Gas	Pump Unit or Traveling Plunger? pumping unit			
Producing Thru (Annulus/Tubing)	% Carbon Dioxide 0.100	% Nitrogen 0.978	Gas Gravity- Gg 0.613		
Vertical Depth (H) 4877	Pressure Taps	Meter Run Size			
Pressure Buildup: Shut in	12/24/2006@1030	TAKEN	12/28/2006@1400		
Well on Line: Started	12/28/2006@1400	TAKEN	12/28/2006@1700		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						445	459			74.0	
Flow	1.000	79.0	93.00	47	56	350	364			25.0	5.0

FLOW STREAM ATTRIBUTES

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 R Mcfd	GOR	G _m
5.073	93.4	93.20	1.2772	1.0127	1.0084	616	128473	0.646

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(P_c)^2 = 211.0$ $(P_w)^2 = 136.2$ $P_d = 16.5$ % $(P_c - 14.4) + 14.4 =$ $(P_a)^2 = 0.207$
 $(P_d)^2 = 5.78$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
210.84	74.83	2.818	0.4499	0.626	0.2816	1.913	1179
205.27	74.83	2.743	0.4383	0.626	0.2744	1.881	1159

OPEN FLOW 1179 Mcfd @ 14.65 psia DELIVERABILITY 1159 Mcfd @ 14.65 psia

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

Trilobite Testing Inc.
 For Company
Jana Simpson
 Checked by