

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

FORM G-2  
8-7-58

15-005-20047-00

**TYPE TEST:**  Deliverability  Open Flow **TEST DATE:** 9/15/89

**COMPANY** Theodore I. Leben & Associates **LEASE** Wehking **WELL NO.** 1

**COUNTY** Atchison **LOCATION** SW/4 SW/4 SE/4 **SECTION** 2 **TWP** 7S **RNG** 18E **ACRES**

**FIELD** Wehking **RESERVOIR** Upper McLouth **PIPELINE CONNECTION** Atchison Pipeline Co.

**COMPLETION DATE** 1/17/86 **PLUG BACK TOTAL DEPTH** 1829 **PACKER SET AT**

**CASINO SIZE** 4 1/2" **WT.** 9.5# **I.D.** **SET AT** 1838 **PERF.** 1739 **TO** 1749

**TUBING SIZE** 2 3/8" **WT.** 4.7# **I.D.** **SET AT** 1730 **PERF.** **TO**

**TYPE COMPLETION (Describe)** Single Gas **TYPE FLUID PRODUCTION** None

**PRODUCING THRU** Tubing **RESERVOIR TEMPERATURE F** **BAR. PRESS - P<sub>a</sub>** 14.4 Psia

**GAS GRAVITY - G<sub>g</sub>** 0.591 **% CARBON DIOXIDE** 0.34 **% NITROGEN** 8.01 **API GRAVITY OF LIQUID**

**VERTICAL DEPTH (H)** 1744 **TYPE METER CONN.** Flange/Down **(METER RUN)(PROVER) SIZE** 2.067

**SHUT-IN PRESSURE: SHUT IN** \_\_\_\_\_ 19\_\_ AT \_\_\_\_\_ (AM)(PM) TAKEN 8/7 19 89 AT 8:00 (AM)(PM)

**FLOW TEST: STARTED** 9/14 19 89 AT 7:30 (AM)(PM) TAKEN 9/15 19 89 AT 7:30 (AM)(PM)

**OBSERVED DATA**

DURATION OF SHUT-IN \_\_\_\_\_ HR.

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						346	360.4			528	
FLOW	1.000	275	1.5	63		332	346.4	281	295.4	24	0

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R STATE Mcfd	RECEIVED GOR COMMISSION
5.073	289.4	20.84	1.302	0.9971	1.018	140	NOV 16 1989

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 129,888 ; (P<sub>w</sub>)<sup>2</sup> = 119,992 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>c</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	LOG [ ]	"n"	n = LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG Mcfd
	55,112	5.234					
129,681	9,896	13.10	1.117	0.9912	1.107	12.806	1792

**OPEN FLOW** 2708 Mcfd @ 14.65 psia **DELIVERABILITY** 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 therein, and that said report is true and correct.

Executed this the 2nd day of October, 19 89.

\_\_\_\_\_  
Witness (if any)

*[Signature]*  
\_\_\_\_\_  
For Company  
\_\_\_\_\_  
Checked by