

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

FORM G-3
 8-7-58

15-005-20064-0000

TYPE TEST: Deliverability Open Flow TEST DATE: 10/15/88

COMPANY: Theodore Leben & Associates LEASE: Sheeley WELL NO.: 1

COUNTY: Atchison LOCATION: N/2 NE SECTION: 2 TWP: 7S RNO: 18E ACRES:

FIELD: Wildcat RESERVOIR: U. McLouth PIPELINE CONNECTION: Atchison Pipeline Co.

COMPLETION DATE: 10/11/88 PLUG BACK TOTAL DEPTH: 1807' PACKER SET AT:

CASINO SIZE: 4 1/2 WT: 10.5# I.D.: 1.810" SET AT: 1696 PERF.: 1704 TO:

TUBING SIZE: 2 3/8" WT: 4.7# I.D.: 1.752" SET AT: 1752 PERF.: TO:

TYPE COMPLETION (Describe): Single TYPE FLUID PRODUCTION: Gas

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: 97° F BAR. PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_g: .577 % CARBON DIOXIDE: .81 % NITROGEN: 3.41 API GRAVITY OF LIQUID:

VERTICAL DEPTH (H): FEET CONSERVATION DIVISION METER METER CONN.: Flange (METER RUN) (PROVER) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN: 10/15 19.88 AT 4:30 (AM)(PM) TAKEN: 10/18 1988 AT 4:30 (AM)(PM)

FLOW TEST: STARTED: 10/14 19.88 AT 4:30 (AM)(PM) TAKEN: 10/15 1988 AT 4:30 (AM)(PM)

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 16 1988
 CONSERVATION DIVISION
 WICHITA, KANSAS

OBSERVED DATA

DURATION OF SHUT-IN: _____ HR.

SHUT-IN OR FLOW	ORIFICE SIZE In.	(METER) (PROVER) PRESSURE psig	DIFF. In. (h _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						594.8	609.2			72.0	
FLOW	.500	90.0			50	437.7	452.1	410.1	425.5	24.0	light to me mist oil&wa

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _b)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXPANSION $\sqrt{P_{max}h_w}$	GRAVITY FACTOR γ _g	FLOWING TEMP. FACTOR $\frac{1}{T}$	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
5.653	104.4		1.0197	1.0098	1.0102	614		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 371.125 ; (P_w)² = 204.394 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_a)² = 0.207 ; (P_d)² = .207

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
370.918	166.731	2.225	.3473	.937	.3254	2.115	1299

OPEN FLOW 1299 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 30th day of December, 1988

Petroleum Science Corporation
 600 Commerce Plaza
 7300 West 110th Street
 Overland Park, KS 66210

David B. [Signature] (Consultant)
 For Company

Witness (if any)

For Commission

Checked by