

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

FORM O-2
 8-7-58

27-23-41W

TYPE TEST: Deliverability Open Flow TEST DATE: 10-1-79

COMPANY: Buchanan LEASE: Parsons WELL NO.: #1
 COUNTY: Hamilton LOCATION: 650' FSL 650' FEL SECTION: 27 TWP: 23 RNG: 41 ACRES:
 FIELD: RESERVOIR: PIPELINE CONNECTION:

COMPLETION DATE: PLUG BACK TOTAL DEPTH: PACKER SET AT:

CASING SIZE: 4 1/2" WT.: 10.5# I.D.: SET AT: 2440' PERF.: 2416' TO: 2427'

TUBING SIZE: 2 7/8" WT.: I.D.: SET AT: 2404' PERF.: TO:

TYPE COMPLETION (Describe): TYPE FLUID PRODUCTION: Saltwater

PRODUCING THRU: Casing RESERVOIR TEMPERATURE F: BAR. PRESS - P_s: 14.4 Psia

GAS GRAVITY - G_g: .814 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

TICAL DEPTH (H): TYPE METER CONN.: (METER-RUN) (PROVER) SIZE: 2'

SHUT-IN PRESSURE: SHUT IN 19 AT (AM)(PM) TAKEN 10-1 19 79 AT 10-30 (AM)(PM)

FLOW TEST: STARTED 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

Prover on separator.

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						310.0	324.4				
FLOW	2 x 1/4"	90.0		55°		160.0	174.4			24	45 bbl.

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _d)(P _d) ² Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m h _w	GRAVITY FACTOR F _g	FLOWING TEMP. F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	Q _m
1.115	104.4		1.108	1.005	1.021	132		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 105.2 (P_w)² = 30.4 P_d = % (P_c - 14.4) + 14.4 = (P_w)² = 0.207 (P_d)² =

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG Mcfd
105.0	74.8	1.404	.1473	.850	.1252	1.3341	176

OPEN FLOW 176 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 1st day of October, 1979.

Ann Dyer
 For Company

Witness (if any)

For Commission

Checked by