

STATE OF KANSAS - CORPORATION COMMISSION

FORM O-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

15-087-20245-0000

TYPE TEST: Deliverability Open Flow TEST DATE: 3/21/86

COMPANY Reese Exploration Inc. LEASE Eldon Farris WELL NO. 1-86

COUNTY Jefferson LOCATION C SW SE SECTION 5 TWP 9 RNG 20E ACRES N/A RWD 4-17-80

FIELD Zachariah RESERVOIR McLouth Sand PIPELINE CONNECTION Vanguard

COMPLETION DATE 2-12-86 PLUG BACK TOTAL DEPTH 1436' PACKER SET AT None

CASING SIZE 4 1/2" WT. I.D. SET AT 1436' PERF. TO 1380' 1387'

TUBING SIZE WT. I.D. SET AT PERF. TO

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

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

GAS GRAVITY - G_g .576 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONN. Flange (METER RUN) (PROVER) SIZE 2"

SHUT-IN PRESSURE: SHUT IN 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)
FLOW TEST: STARTED 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)

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	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _c)(P _d) psia	psig	(P _w)(P _c)(P _d) psia		
SHUT-IN						507	521.4	—		72	
FLOW	.750			90		101	115.4	—		24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m h _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcd	GOR	G _m
224.9			1.318	.9723		1234		.576

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 271.9, (P_w)² = 13.3, P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_w)² = 0.207 (P_d)² = _____

(P _c) ² - (P _w) ² (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 x ANTILOG Mcd
271.7	258.6	1.0507	.0215	0.689	0.0148	1.035	1277

OPEN FLOW 1277 Mcd @ 14.65 psia DELIVERABILITY Mcd @ 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 11th day of April, 1986.

Witness (if any)

For Commission

For Company

Checked by