

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

FORM O-2
8-7-58

15-087-20097-0000

TYPE TEST: Deliverability Open Flow TEST DATE: 3/22/86 RCWD 04-17-86

COMPANY: Reese Exploration, Inc. LEASE: Joe Noll WELL NO.: 1-84
 COUNTY: Jefferson LOCATION: SE NW SECTION: 9 TWP: 9 RNG: 20E ACRES: N/A
 FIELD: Zachariah RESERVOIR: McLouth Sand PIPELINE CONNECTION: Vanguard

COMPLETION DATE: 7-25-84 PLUG BACK TOTAL DEPTH: 1550' PACKER SET AT: None
 CASING SIZE: WT. I.D. SET AT: 1550' PERF. TO: 1480' 1484'
 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: .587 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:
 VERTICAL DEPTH (ft): 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 _i)(P _c) psia	psig	(P _w)(P _i)(P _c) psia		
SHUT-IN						510	524.4	—		72	
FLOW	.750			90		128	142.4	—		24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F ₁)(F ₂) Mcd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_{mshw}}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcd	GOR	G _m
224.9			1.305	.9723		1521		.587

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 275.0 ; (P_w)² = 20.3 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

$\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcd
274.8	254.7	1.0789	0.0331	0.693	0.02293	1.054	1603

OPEN FLOW 1603 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 11 th day of April, 1986.

Witness (if any)

For Company

For Commission

Checked by

10
13
2-492

January, 1988

OPERATOR	Reese Exploration, Inc.
OPERATOR LICENSE NUMBER	5115
OPERATOR ADDRESS	5540 Raytown Road, Raytown, MO 64133
OPERATOR PHONE NUMBER	816/356-1970
LEASE NAME	Joe Noll 1-84
SPOT LOCATION	660 FSL 660 FEL
SECTION	9
TOWNSHIP	9
RANGE	20
COUNTY	Jefferson
GAS PURCHASER	Vanguard Pipeline
GAS BTU'S	975

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JAN 08 1988
CONSERVATION DIVISION
Wichita, Kansas

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)	51
Shut-In Pressure on Prover (psi)	145
Orifice Size (3/4 inch) and Coefficient	224.9
Specific Gravity	.575
Temperature of Gas (+459.69F)	549.69
Open Flow (MCF/D)	637
One-Quarter of Open Flow (MCF/D)	159
Adjusted State Allowable (MCF/D)	159
Current Production Rate (MCF/D)	75

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