

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

FORM O-2
 8-7-50

15-087-20194-0000

TYPE TEST: Deliverability Open Flow TEST DATE: 12/20/85

COMPANY: Reese Exploration Inc. LEASE: James Kimmel WELL NO.: 1-85

RCWD 1-31-86

COUNTY: Leavenworth LOCATION: C 1/2 NE, NE SECTION: 2 TWP: 10 RNO: 19E ACRES: N/A

FIELD: McLouth RESERVOIR: McLouth Sand PIPELINE CONNECTION: Vanguard Pipeline

COMPLETION DATE: 9-10-85 PLUG BACK TOTAL DEPTH: 1642' PACKER SET AT: None

CASING SIZE: 4 1/2" WT. L.D. SET AT PERF. TO N/A

TUBING SIZE: None WT. L.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 (ft): TYPE METER CONN.: N/A (METER-ROD) (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						476.0	490.4	—	—	72	
FLOW	375	80		90		305.0	319.4	—	—	24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (P _c)(P _d) / (P _c ² - P _d ²)	(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 Mcfd	GOR	G _m
2.439	94.4	N/A	1.318	0.9723	0.991	292.4	None	.576

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 240.5, (P_w)² = 102.0, P_d = 20.8, (P_c - 14.4) + 14.4 = _____, (P_d)² = 0.207

(P _c) ² - (P _d) ² or (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 Mcfd
240.3	138.5	1.7350	0.2392	0.850	0.2033	1.597	467.0

OPEN FLOW 467 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 January, 1986.

Witness (if any)
 James A. Hemmer
 For Commission

For Company
 Checked by

March, 1987

OPERATOR	Reese Exploration, Inc.
OPERATOR LICENSE NUMBER	5115
OPERATOR ADDRESS	5540 Raytown Road, Raytown, Mo. 64133
OPERATOR PHONE NUMBER	816-356-1970
LEASE NAME	James Kimmel 1-85
SPOT LOCATION	660 FEL 330 FNL
SECTION	2
TOWNSHIP	10
RANGE	19
COUNTY	Jefferson
GAS PURCHASER	Vanguard Pipeline
GAS BTU'S	975

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)	60
Shut-In Pressure on Prover (psi)	310
Orifice Size (3/4 inch) and Coefficient	224.9
Specific Gravity	.575
Temperature of Gas (+459.69F)	549.69
Open Flow MCF/D)	748.9
One-Quarter of Open Flow (MCF/D)	187.2
Adjusted State Allowable (MCF/D)	187.2
Current Production Rate (MCF/D)	98.5

TESTER--Larry Culbertson--LAGGS, INC.--913-773-8514

APR 9 1987