

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

FORM O-3
 8-7-58

15-087-20196-0000
 PCWD 1-31-86

TYPE TEST: Deliverability Open Flow TEST DATE: 12/22/85

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

COUNTY: Leavenworth LOCATION: C N/2 NW NW SECTION: 1 TWP: 10 RNG: 19E ACRES: N/A

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

COMPLETION DATE: 1-22-85 PLUG BACK TOTAL DEPTH: 1812 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: .575 % CARBON DIOXIDE: NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (M): TYPE METER CONN.: N/A (METER RUN)(PROVER) SIZE:

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 psia	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						475.0	489.4	—		72	
FLOW	.375	78		90		385.0	399.4	—		24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (P _c)(P _w) ² Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _{wh} h _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{gv}	RATE OF FLOW R Mcfd	GOR	G _m
2.439	92.4	N/A	1.319	0.9723	0.988	285.6	None	.575

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 239.5 ; (P_w)² = 159.5 ; P_d² = _____ % (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 x ANTILOG Mcfd
239.3	80	2.9913	0.4758	0.850	0.4044	2.538	724.9

OPEN FLOW 725 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. Heaman

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	John Kimmel 1-85
SPOT LOCATION	660 FWL 330 FNL
SECTION	1
TOWNSHIP	10
RANGE	19
COUNTY	Jefferson
GAS PURCHASER	Vanguard Pipeline
GAS BTU'S	975

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)	95
Shut-In Pressure on Prover (psi)	320
Orifice Size (3/4 inch) and Coefficient	224.9
Specific Gravity	.575
Temperature of Gas (+459.69F)	549.69
Open Flow MCF/D)	1186.8
One-Quarter of Open Flow (MCF/D)	296.7
Adjused State Allowable (MCF/D)	296.7
Current Production Rate (MCF/D)	170.0

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

APR 9 1987

28
P3
2-4-92

January, 1988

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 COUNTY Jefferson
 GAS PURCHASER Vanguard Pipeline
 GAS BTU'S 975

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 STATE CORPORATION COMMISSION
 JAN 08 1988
 CONSERVATION DIVISION
 WICHITA, KANSAS

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi) 55
 Shut-In Pressure on Prover (psi) 160
 Orifice Size (3/4 inch) and Coefficient 224.9
 Specific Gravity .575
 Temperature of Gas (+459.69F) 549.69
 Open Flow (MCF/D) 686
 One-Quarter of Open Flow (MCF/D) 172
 Adjusted State Allowable (MCF/D) 172
 Current Production Rate (MCF/D) 145

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CONSERVATION DIVISION
Wichita, Kansas

29
1-11-88

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 JAN 08 1988
 OREGON DIVISION
 Medford, Oregon