

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

FORM O-2  
8-7-58

15-087-202587000

*Handwritten notes:*  
 04-17-86  
 RWD

TYPE TEST:  Deliverability  Open Flow TEST DATE: 3/19/86

COMPANY: Reese Exploration Inc. LEASE: Joe Noll WELL NO.: 2-86

COUNTY: Jefferson LOCATION: C 9/2 NW NW SECTION: 9 TWP: 9 RNG: 20E ACRES: N/A

FIELD: Zachariah RESERVOIR: McLouth Sand PIPELINE CONNECTION: Vanguard

COMPLETION DATE: 2-26-86 PLUG BACK TOTAL DEPTH: 1398' PACKER SET AT: None

CASING SIZE: 4 1/2" WT. I.D. SET AT PERF. TO 1341' TO 1351'

TUBING SIZE: N/A 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<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: .576 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID: N/A

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 <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASINO WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						501	515.4	—		72	
FLOW	.750			90		105	119.4	—		24	

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>1</sub> )(F <sub>2</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
224.9			1.318	.9723		1275		.576

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 265.6, (P<sub>w</sub>)<sup>2</sup> = 14.26, P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_; (P<sub>w</sub>)<sup>2</sup> = 0.207, (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
265.4	251.34	1.0559	.0237	.718	0.01702	1.0405	1327

OPEN FLOW 1327 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 11<sup>th</sup> day of April, 1986.

\_\_\_\_\_  
 Witness (if any)  
 \_\_\_\_\_  
 For Commission

\_\_\_\_\_  
 For Company  
 \_\_\_\_\_  
 Checked by

D  
PS  
2-1-90

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 2-86  
SPOT LOCATION 4620 FSL 4620 FEL  
SECTION 9  
TOWNSHIP 9  
RANGE 20  
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) 40  
Shut-In Pressure on Prover (psi) 150  
Orifice Size (3/4 inch) and Coefficient 224.9  
Specific Gravity .575  
Temperature of Gas (+459.69F) 549.69  
Open Flow (MCF/D) 499  
One-Quarter of Open Flow (MCF/D) 125  
Adjusted State Allowable (MCF/D) 125  
Current Production Rate (MCF/D) 75

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