

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

FORM O-2  
8-7-50

15-087-20197-000

TYPE TEST:  Deliverability  Open Flow TEST DATE: 12/17/85

COMPANY: Reese Exploration Inc. LEASE: Dan Sedlak WELL NO.: 1-85

COUNTY: Leavenworth LOCATION: NENE NE SECTION: 5 TWP: 9 RNG: 20E ACRES: N/A

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

RCMD  
1-8-88

COMPLETION DATE: \_\_\_\_\_ PLUG BACK TOTAL DEPTH: \_\_\_\_\_ PACKER SET AT: None

CASING SIZE: \_\_\_\_\_ WT. \_\_\_\_\_ I.D. \_\_\_\_\_ SET AT \_\_\_\_\_ PERF. \_\_\_\_\_ TO \_\_\_\_\_  
N/A

TUBING SIZE: \_\_\_\_\_ WT. \_\_\_\_\_ I.D. \_\_\_\_\_ SET AT \_\_\_\_\_ PERF. \_\_\_\_\_ TO \_\_\_\_\_

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

PRODUCING THRU: \_\_\_\_\_ RESERVOIR TEMPERATURE, F: \_\_\_\_\_ BAR. PRESS - P<sub>a</sub>: 14.4 Psia

GAS GRAVITY - G<sub>g</sub>: .585 % CARBON DIOXIDE: \_\_\_\_\_ % NITROGEN: \_\_\_\_\_ API GRAVITY OF LIQUID: \_\_\_\_\_

VERTICAL DEPTH (H): \_\_\_\_\_ TYPE METER CONN.: N/A (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.	(PROVER) PRESSURE psig	DIFF. in. (h <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						505.0	519.4	—		72	
FLOW	.375	62		90		285.0	299.4	—		24	

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>p</sub> )(F <sub>v</sub> ) Mcfd	(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>
2.439	76.4	N/A	1.307	0.9723	0.988	234	N/A	.585

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

(P<sub>c</sub>)<sup>2</sup> = 269.8 ; (P<sub>w</sub>)<sup>2</sup> = 89.6 ; P<sub>d</sub> = 20.2 % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = 10.4

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
269.6	180.2	1.4961	0.1750	0.850	0.14875	1.408	329.5

OPEN FLOW 330 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. Hemmen  
For Commission

For Company  
Checked by

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	Dan Sedlak 1-85
SPOT LOCATION	660 FNL 660 FWL
SECTION	5
TOWNSHIP	9
RANGE	20
COUNTY	Jefferson
GAS PURCHASER	Vanguard Pipeline
GAS BTU'S	975

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)	77
Shut-In Pressure on Prover (psi)	155
Orifice Size (3/4 inch) and Coefficient	224.9
Specific Gravity	.575
Temperature of Gas (+459.69F)	549.69
Open Flow (MCF/D)	961
One-Quarter of Open Flow (MCF/D)	240
Adjusted State Allowable (MCF/D)	240
Current Production Rate (MCF/D)	165

RECEIVED  
STATE CORPORATION COMMISSION

JAN 08 1988

CONSERVATION DIVISION  
Wichita, Kansas