

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

FORM O-8  
8-7-58

15-087-2017-0000

TYPE TEST:  Deliverability  Open Flow TEST DATE: 3/22/86

COMPANY: Reese Exploration Inc. LEASE: Dan Sedlak WELL NO.: 1-84  
 COUNTY: Jefferson LOCATION: NE NE SW SECTION: 5 TWP: 9 RNG: 20 E. ACRES: N/A  
 FIELD: Zachariah RESERVOIR: McLouth Sand PIPELINE CONNECTION: Vanguard  
 COMPLETION DATE: 10-26-84 PLUG BACK TOTAL DEPTH: 1525' PACKER SET AT: None  
 CASING SIZE: 4 1/2" WT. L.D. SET AT: 1525' PERF. TO: 1450'  
 TUBING SIZE: WT. L.D. SET AT: PERF. TO:

RCWD  
4-17-86

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>: .585 % 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 <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	519.4	—		72	
FLOW	.750			90		99	113.4	—		24	

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>p</sub> )(F <sub>d</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			1.307	.9723		1200		.585

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

(P<sub>c</sub>)<sup>2</sup> = 269.8 ; (P<sub>w</sub>)<sup>2</sup> = 12.9 ; P<sub>d</sub><sup>2</sup> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ (P<sub>a</sub>)<sup>2</sup> = 0.207 (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
269.6	256.9	1.0494	0.0207	0.699	0.0145	1.035	1242

OPEN FLOW 1242 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