

15-087-20260-00-00

STATE OF KANSAS - CORPORATION COMMISSION

FORM O-2  
8-7-58

29  
4-27-86

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST:  Deliverability  Open Flow TEST DATE: 3/27/86

COMPANY: Reese Exploration Inc. LEASE: Jeff Walker WELL NO.: 1-86

COUNTY: Jefferson LOCATION: c NE NW SECTION: 8 TWP: 9 R1G: 20E ACRES: N/A

FIELD: Easton RESERVOIR: McLouth Sand PIPELINE CONNECTION: Vanguard

COMPLETION DATE: 2-27-86 PLUG BACK TOTAL DEPTH: 1410' PACKER SET AT: None

CASINO SIZE: 4 1/2" WT. I.D. SET AT: 1410' PERF. TO: 1362' TO: 1371'

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:

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						486	500.4	—		72	
FLOW	.750			90		106	120.4	—		24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P <sub>m</sub> h <sub>w</sub>	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		1284	N/A	.576

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 250.4 ; (P<sub>w</sub>)<sup>2</sup> = 14.5 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>d</sub>)<sup>2</sup> = 0.207

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
250.2	235.9	1.0606	0.0255	0.708	0.01805	1.0438	1340

OPEN FLOW 1340 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