

STATE OF KANSAS - CORPORATION COMMISSION

FORM O-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST 15-087-20227-0000

TYPE TEST: Deliverability Open Flow TEST DATE: 3/19/86 RWD 04-17-86

COMPANY: Reese Exploration, Inc. LEASE: Joe Noll WELL NO.: 1-86
 COUNTY: Jefferson LOCATION: S/2 SW NW SECTION: 9 TWP: 9 RNO: 20E ACRES: N/A
 FIELD: Zachariah RESERVOIR: McLouth Sand PIPELINE CONNECTION: Vanguard

COMPLETION DATE: 1-18-86 PLUG BACK TOTAL DEPTH: 1474' PACKER SET AT: None

CASING SIZE: 4 1/2" WT. I.D. SET AT PERF. TO 1456' 1462'

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_a: 14.4 Psia

GAS GRAVITY - G_s: .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 _w)(h _d)	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING 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						510	524.4	—		72	
FLOW	.750			90		128	142.4	—		24	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F ₁)(F ₂) Mcd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcd	GOR	G _m
224.9			1.318	.9723		1269		.576

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_d)² = 275.0, (P_w)² = 20.3, P_d = _____ % (P_c - 14.4) + 14.4 = _____, (P_a)² = 0.207, (P_d)² = _____

$\frac{(P_d)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	$(P_c)^2 - (P_w)^2$	$\left[\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcd
274.8	254.7	1.0789	0.0331	.722	0.0239	1.056	1340

OPEN FLOW 1340 Mcd @ 14.65 psia DELIVERABILITY Mcd @ 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 11th day of April, 1986.

Witness (if any) For Commission For Company Checked by

D
P2
2-4-92

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 No11 1-86
SPOT LOCATION 660 FWL 330 FSL
SECTION 9
TOWNSHIP 9
RANGE 20
COUNTY Jefferson
GAS PURCHASER Vanguard Pipeline
GAS BTU'S 975

RECEIVED
STATE CORPORATION COMMISSION
JAN 08 1988
CONSERVATION DIVISION
Wichita, Kansas

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi) 45
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) 562
One-Quarter of Open Flow (MCF/D) 140
Adjusted State Allowable (MCF/D) 140
Current Production Rate (MCF/D) 85

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 1-86
SPOT LOCATION	660 FWL 330 FSL
SECTION	9
TOWNSHIP	9
RANGE	20
COUNTY	Jefferson
GAS PURCHASER	Vanguard Pipeline
GAS BTU'S	975

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi)	45
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)	562
One-Quarter of Open Flow (MCF/D)	140
Adjusted State Allowable (MCF/D)	140
Current Production Rate (MCF/D)	85

RECEIVED
STATE CORPORATION COMMISSION

JAN 08 1988

CONSERVATION DIVISION
Wichita, Kansas

10
P2
- 1/1/88

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 1-86
SPOT LOCATION 660 FWL 330 FSL
SECTION 9
TOWNSHIP 9
RANGE 20
COUNTY Jefferson
GAS PURCHASER Vanguard Pipeline
GAS BTU'S 975

CURRENT OPEN FLOW CALCULATION

Flowing Pressure on Prover (psi) 45
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) 562
One-Quarter of Open Flow (MCF/D) 140
Adjusted State Allowable (MCF/D) 140
Current Production Rate (MCF/D) 85

RECEIVED
STATE CORPORATION COMMISSION
JAN 08 1988
CONSERVATION DIVISION
Wichita, Kansas