

15-023-20089-00-00

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32481

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

FORM O-3
8-7-58

TYPE TEST: Deliverability Open Flow TEST DATE: 2-28-86

COMPANY F.M.P. Operating LEASE Rued WELL NO. 1-16

COUNTY Cheyenne LOCATION SECTION 16 TWP 3 RNG 42 ACRES

FIELD RESERVOIR PIPELINE CONNECTION

COMPLETION DATE PLUG BACK TOTAL DEPTH PACKER-SET AT

CASING SIZE WT. I.D. SET AT PERF. TO

TUBING SIZE WT. I.D. SET AT PERF. TO

TYPE COMPLETION (Describe) TYPE FLUID PRODUCTION

PRODUCING THRU Tubing RESERVOIR TEMPERATURE F BAR. PRESS - P_a 14.4 Psia

GAS GRAVITY - G_g 587 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONN. (METER RUN) (SPEAKER) SIZE

SHUT-IN PRESSURE: SHUT IN 2-28 1986 AT (AM)(PM) TAKEN 3-3 1986 AT (AM)(PM)

FLOW TEST: STARTED 3-3 1986 AT (AM)(PM) TAKEN 3-4 1986 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						220.0	234.4				
FLOW	5/8	80.0	16.2			203.0	217.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _v)(P _a) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m h _w	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	Q _m
1.914	94.4	39.106	1.305	1.000	1.000	98.0		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 54.9 ; (P_w)² = 47.3 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

(P _c) ² - (P _a) ² or (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
54.7	7.6	7.1974	.8572	.687	.5889	3.8804	380

OPEN FLOW 380 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 _____ day of _____, 1986.

Witness (if any)
For Commission

MAR 13 1986

CONSERVATION DIVISION
Wichita, Kansas

For Company
Checked by