

15-023-20239-00-00

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

FORM O-2
8-7-58

TYPE TEST: Deliverability Open Flow TEST DATE: October 18, 1985

COMPANY J-W Operating Company LEASE Rudolph Walter WELL NO. #8

COUNTY Cheyenne LOCATION NE/4 SECTION 9 TWP 3S RNO 41W ACRES 160

FIELD Cherry Creek RESERVOIR Niobrara PIPELINE CONNECTION none

COMPLETION DATE 10/5/85 PLUG BACK TOTAL DEPTH 1527' PACKER SET AT none

CASING SIZE 4-1/2" WT. 9.5# I.D. 4.09" SET AT 1561' PERF. 1455' TO 1471'

TUBING SIZE 1-1/2" WT. 2.75# I.D. 1.61" SET AT 1453' PERF. TO

TYPE COMPLETION (Describe) single gas TYPE FLUID PRODUCTION

PRODUCING THRU RESERVOIR TEMPERATURE F BAR. PRESS - P_e 12.6 Mpa

GAS GRAVITY - G_g 0.60 (estimate) % CARBON DIOXIDE NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONN. none (METER RUN)(PROVER) SIZE 2"

SHUT-IN PRESSURE: SHUT IN 10/18 85 AT 1:45 XX (AM)(PM) TAKEN 10/18 85 AT 1:45 XX (AM)(PM)

FLOW TEST: STARTED 10/18 85 AT 6:00 (AM)(PM) TAKEN 10/19 1985 AT 6:00 (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 _e)(P _c) psia	psig	(P _w)(P _e)(P _c) psia		
SHUT-IN	blank	286		--		286	298.6			0	0
FLOW	1/8"	135		57		135	147.6			24	0

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(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 Mcfd	GOR	G _m
0.2716	147.6		1.291	1.0029	1.0109	52		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ (P_w)² = _____ P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_e)² = 0.207 (P_d)² = _____

$\frac{(P_e)^2 - (P_w)^2}{(P_e)^2 - (P_d)^2}$	(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
	298.6	147.6	89.16	21.79	67.37	52	49.4

OPEN FLOW 73 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 25th day of October, 1985

RECEIVED STATE CORPORATION COMMISSION

Bruce Kirkpatrick For Company

Bruce Kirkpatrick

Witness (if any)

FEB 21 1986

Checked by

For Commission

CONSERVATION DIVISION