

15-023-20075-00-00

29
3.14-86

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

FORM G-2
8-7-58

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

COMPANY: E.M.P. Operating LEASE: Harkins WELL NO.: 1-16

COUNTY: Cherokee LOCATION: SECTION: 16 TWP: 7 RMO: 40 ACRES:

FIELD: Reservoir PIPELINE CONNECTION: K.T. Energy

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 RESERVOIR TEMPERATURE F BAR. PRESS - P_a 14.4 Psia

GAS GRAVITY - G_g 0.85 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONN. (METER RUN) (METER) 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 22 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 _t)(P _c) psia	psig	(P _w)(P _t)(P _c) psia		
SHUT-IN						223.0	237.4				
FLOW	1/4	1220	8.0			190.0	204.4				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _b)(F _p) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _{mshw}	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
1.1371	136.4	33.033	1.307	1.000	1.015	6.0		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 56.4 (P_w)² = 41.8 P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_a)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
56.2	14.6	3.8493	.5854	.809	4.736	2.9756	18.0

OPEN FLOW 18.0 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) [Signature] For Commission

MAR 13 1986 For Company

Checked by _____

CONSERVATION DIVISION
Wichita Kansas