

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: May 11, 1965

COMPANY: Ferguson Oil Company LEASE: Friesen WELL NO.: 1
 COUNTY: Meade LOCATION: SECTION 4 TWP 33 RNO 28 ACRES
 FIELD: Borchers RESERVOIR: Morrow PIPELINE CONNECTION: Panhandle Eastern Pipe Line Company
 COMPLETION DATE: 6-30-61 PLUG BACK TOTAL DEPTH: 5624 PACKER SET AT
 CASING SIZE: 5 1/2 WT. 15.5 I.D. 4.95 SET AT 5664 PERF. 5580 TO 5590
 TUBING SIZE: 2" EUE WT. 4.7 I.D. 1.995 SET AT 5556 PERF. Open TO
 TYPE COMPLETION (Describe): Single TYPE FLUID PRODUCTION: Condensate
 PRODUCING THRU: Tubing RESERVOIR TEMPERATURE F: BAR. PRESS - P_a: 14.4 Psia
 GAS GRAVITY - G_g: .644 % CARBON DIOXIDE: % NITROGEN: 1.67 API GRAVITY OF LIQUID:
 VERTICAL DEPTH (H): 5585 TYPE METER CONN.: Pipe (METER RUN) (PROVER) SIZE: 4
 SHUT-IN PRESSURE: SHUT IN 5-11 19 65 AT 10:00 (AM)(PM) TAKEN 5-14 19 65 AT 2:45 (AM)(PM)
 FLOW TEST: STARTED 5-10 19 65 AT 9:00 (AM)(PM) TAKEN 5-11 19 65 AT 9:45 (AM)(PM)

OBSERVED DATA

DURATION OF SHUT-IN: 76 3/4 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	CASINO 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						1247.0	1261.4	1246.0	1260.4	76 3/4	
FLOW	2.50	764.0	14.0	78		1187.0	1201.4	845.0	859.4	24 3/4	

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _p)(F _d) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION √P _m xh _w 10900	GRAVITY FACTOR F _g	FLOWING TEMP. F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
43.25	778.4	104.4	1.246	.9831	1.068	5907		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1591.1; (P_w)² = 1443.4; P_d = _____ % (P_c - 14.4) + 14.4 = _____; (P_w)² = 0.207; (P_d)² = _____

(P _d) ² - (P _w) ²	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
1590.9	147.7	10.77	1.0323	.791	.8165	6.555	38 720

OPEN FLOW 38 720 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 19th day of May, 1965.

MA Lindsay
 (Name (if any))
KA Beach
 For Commission

 For Company

 Checked by