

15-075-20372-0000

FORM G-2
8-7-58

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

TYPE TEST: Deliverability Open Flow TEST DATE: 7-15-88

COMPANY: Darnick Resources Inc. LEASE: Eaton

COUNTY: Hamilton LOCATION: C-SW SECTION: 14 TWP: 23 RANG: 23 ACRES: 640

FIELD: Bradshaw RESERVOIR: Winfield PIPELINE CONNECTION: HOW

COMPLETION DATE: 4-81 PLUG BACK TOTAL DEPTH: 2571 SET AT: 0

CASING SIZE: 4.5 WT. 10.5 I.D. 4.04 SET AT 2579 PERF. 2530 TO 2538

TUBING SIZE: 2 WT. 4.7 I.D. 1.995 SET AT 2541 PERF. TO

TYPE COMPLETION (Describe): Single, Pumping Unit TYPE FLUID PRODUCTION: Dry Gas

PRODUCING THRU: Casing RESERVOIR TEMPERATURE: 85.3 BAR. PRESS - P_a: 14.4 Psia

GAS GRAVITY - G_s: .768 % CARBON DIOXIDE: .34 % NITROGEN: 28 API GRAVITY OF LIQUID: 0

VERTICAL DEPTH (ft): 2580 TYPE METER CONN.: orifice (METER RUN)(PROVER) SIZE: 3

SHUT-IN PRESSURE: SHUT IN 7-11 19-88 AT 4:30 (AM)(PM) TAKEN 7-14 19-88 AT 2:30 (AM)(PM)

FLOW TEST: STARTED 7-14 19-88 AT 2:35 (AM)(PM) TAKEN 7-15 19-88 AT 2:30 (AM)(PM)

OBSERVED DATA

SHUT-IN OR FLOW	ORIFICE SIZE in.	(METER) (PROVER) PRESSURE psig	DIFF. in. (P _w)(P _d)	FLOWING TEMP. °F	WELL-HEAD TEMP. °F	CASING WELL-HEAD PRESS.		TUBING WELL-HEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P _w)(P _d) psia	psig	(P _w)(P _d) psia		
SHUT-IN						226.0	240.4			70	
FLOW	1.00	121.5	10.0	60	0	190.2	204.6			24	75

RATE OF FLOW CALCULATIONS

COEFFICIENT (P _d)(P _w) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_w - P_d}$	GRAVITY FACTOR P _g	FLOWING TEMP. FACTOR F _L	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
4.91	135.9	36.9	1.141	1.0000	1.0105	209		0.77

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)²: 57.79 (P_w)²: 41.87 P_d²: _____ % (P_c - 14.4) + 14.4 = _____ (P_d)² = 0.207

$\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - P_d^2}{P_c^2 - P_w^2}$	LOG []	"a"	"a" = LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG Mcfd
57.58	15.92	3.62	1.29	0.757	0.97	2.65	553

OPEN FLOW 553 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 18 day of July, 19 88

D. Kapp

T. Maxwell

Witness (if any)
James Kapp
For Commission

For Company
G. Hancock
Checked by