15-023-20060-00-00

5-5-81

STATE OF KANSAS – CORPORATION COMMISSION

FORM G-2
8-7-58

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST: ☐ Deliverability ☒ Open Flow TEST DATE: 2-14-81

COMPANY: Murfin Drlg Co | LEASE: Dam Karger | WELL NO.: 1-6

COUNTY: Cheyenne | LOCATION | SECTION: 6 | TWP: 4S | RNG: 39W | ACRES: 640

FIELD: Cherry Creek | RESERVOIR: Niobrara | PIPELINE CONNECTION: Cheyenne Nat Pipe Line

COMPLETION DATE: 1-15-80 | PLUG BACK TOTAL DEPTH: 1430 | PACKER SET AT:

CASING SIZE	WT.	I.D.	SET AT	PERF.	TO
4½			1476	1362	1383

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

TYPE COMPLETION (Describe): | TYPE FLUID PRODUCTION:

PRODUCING THRU: Casing | RESERVOIR TEMPERATURE F | BAR. PRESS – P_a: 14.4 Psia

GAS GRAVITY – G_g: .680 | % CARBON DIOXIDE | % NITROGEN | API GRAVITY OF LIQUID

VERTICAL DEPTH (H) | TYPE METER CONN.: flg | (METER RUN) (~~PROVER~~) SIZE: 2"

SHUT-IN PRESSURE: SHUT IN 2-14 1981 AT ____ (AM)(PM) TAKEN 2-17 1981 AT ____ (AM)(PM)

FLOW TEST: STARTED 2-17 1981 AT ____ (AM)(PM) TAKEN 2-18 1981 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. psig	CASING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	TUBING WELLHEAD PRESS. psig	TUBING WELLHEAD PRESS. $(P_w)(P_t)(P_c)$ psia	DURATION HOURS	LIQUID PROD. Bbls.
SHUT-IN						189.8	204.2				
FLOW	½	70.0	10.4			179.5	193.9				

RATE OF FLOW CALCULATIONS

COEFFICIENT $(F_b)(F_p)$ Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m x h_w}$	GRAVITY FACTOR F_g	FLOWING TEMP. FACTOR F_t	DEVIATION FACTOR F_{pv}	RATE OF FLOW R Mcfd	GOR	G_m
1.219	84.4	29.627	1313	1.000	1.000	47.0		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 41.7 ; $(P_w)^2$ = 37.6 ; P_d = ____ % ; $(P_c - 14.4) + 14.4$ = ____ ; $(P_d)^2$ = 0.207 ____

$(P_c)^2-(P_a)^2$ or $(P_c)^2-(P_d)^2$	$(P_c)^2-(P_w)^2$	$\begin{bmatrix} P_c^2-P_a^2 \\ P_c^2-P_d^2 \\ P_c^2-P_w^2 \end{bmatrix}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
41.5	4.1	10.122	1.005	.820	.843	6.6729	314

OPEN FLOW 314 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 ____, 19___.

RECEIVED
STATE CORPORATION COMMISSION
FEB 2 1982
CONSERVATION DIVISION
Wichita, Kansas

Witness (if any)
Clyde Wiley
For Commission

For Company

Checked by

2-23-8

Richard -

We establish N.820 on the Cherry Creek - Miobrara in Cheyenne Co -

Ken