

STATE OF KANSAS - CORPORATION COMMISSION *Junk* FORM 0-2
8-7-58
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST *9.46 Water*

TYPE TEST: Deliverability Open Flow TEST DATE: *2-14-81*

COMPANY: *Murphy Drilling Co* LEASE: *Schields* WELL NO.: *1-33*
COUNTY: *Cheyenne* LOCATION: SECTION *33* TWP *4* RNG *39* ACRES *6.40*
FIELD: *Cherry Creek* RESERVOIR: *Neoharsh* PIPELINE CONNECTION: *Cheyenne Nat Pipeline*

COMPLETION DATE: *5-21-80* PLUG BACK TOTAL DEPTH: *1413* PACKER SET AT

CASING SIZE: *4 1/2* WT. I.D. SET AT *1485* PERF. TO *1296* TO *1322*

TUBING SIZE: *1 1/2* WT. I.D. SET AT *1298* PERF. TO *open end*

TYPE COMPLETION (Describe): *Single gas* TYPE FLUID PRODUCTION: *open end*

PRODUCING THROUGH: *Casing* RESERVOIR TEMPERATURE F BAR. PRESS - P_a: *14.4 Psia*

GAS GRAVITY - G_g: *.580* % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H) TYPE METER CONN.: *PLG* (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		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						222.7					
FLOW	<i>3/8</i>	<i>70.0</i>	<i>3.0</i>			<i>188.5</i>					

RATE OF FLOW CALCULATIONS

COEFFICIENT (F _s)(F _D) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F _g	FLOWING TEMP. FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcfd	GOR	G _m
<i>.6860</i>	<i>84.4</i>	<i>15.912</i>	<i>1.313</i>	<i>1.000</i>	<i>1.000</i>	<i>14.0</i>		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = *56.2*; (P_w)² = *41.2*; P_d = _____ % (P_c - 14.4) + 14.4 = _____; (P_c)² = 0.207; (P_d)² = _____

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	$\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	LOG []	"n"	n x LOG []	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
<i>56.0</i>	<i>15.0</i>	<i>3.7333</i>	<i>.5721</i>	<i>.820</i>	<i>.4691</i>	<i>2.9452</i>	<i>41.0</i>

OPEN FLOW *41.0* Mcfd @ 14.65 psia DELIVERABILITY *41.0* 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____.

Witness (if any)
Clayton Wiley
For Commission

For Company
Checked by

