

pl 3-5

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

FORM G-2  
8-7-58

*Truck*  
*9 lbs water*

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

COMPANY: Murphy Oil Co. LEASE: O'Brien WELL NO.: B1-35

COUNTY: Cherokee LOCATION: 35 TWP: 4 RNG: 42 ACRES: 640

FIELD: Cherry Creek RESERVOIR: Neokarar PIPELINE CONNECTION: Kans. Nat. Gas

COMPLETION DATE: 1-11-80 PLUG BACK TOTAL DEPTH: 1368 PACKER SET AT: \_\_\_\_\_

CASING SIZE: 4 1/2 WT. \_\_\_\_\_ I.D. \_\_\_\_\_ SET AT: 1417 PERF.: 1281 TO: 1309

TUBING SIZE: 1 1/2 WT. \_\_\_\_\_ I.D. \_\_\_\_\_ SET AT: 1296 PERF.: \_\_\_\_\_ TO: \_\_\_\_\_

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

PRODUCING THRU:  tubing RESERVOIR TEMPERATURE F: \_\_\_\_\_ BAR. PRESS - P<sub>e</sub>: 14.4 psia

GAS GRAVITY - G<sub>g</sub>: 0.80 % 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 <sub>w</sub> )(h <sub>d</sub> )	FLOWING TEMP. t	WELL-HEAD TEMP. t	CASING WELLHEAD PRESS		TUBING WELLHEAD PRESS		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>i</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						202.3	216.7				
FLOW	3/8	50.0	6.0			170.2	184.6				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>b</sub> )(F <sub>d</sub> ) Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m \times h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
0.6860	64.4	19.657	1.313	1.000	1.000	18.0		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 47.0 (P<sub>w</sub>)<sup>2</sup> = 34.1 P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ (P<sub>e</sub>)<sup>2</sup> = 0.207 (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

$\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	$\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mcfd
46.8	12.9	3.6279	.5597	.820	4589	2.8769
						52

OPEN FLOW 52.0 Mcfd @ 14.65 psia DELIVERABILITY 52.0 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)  
[Signature]  
For Commission

For Company  
Checked by

FEB 2 1981  
CORPORATION COMMISSION