

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

TYPE TEST:  Deliverability  Open Flow TEST DATE:

COMPANY: Goodland Gas Co. LEASE: Briney WELL NO.: 2-35  
 COUNTY: Sherman LOCATION: SW SW SW SECTION: 35 TWP: 7 RNG: 39W ACRES:  
 FIELD: Goodland Gas RESERVOIR: Niobrara Chalk PIPELINE CONNECTION: KN Energy  
 COMPLETION DATE: PLUG BACK TOTAL DEPTH: PACKER SET AT:

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

TYPE COMPLETION (Describe) TYPE FLUID PRODUCTION

PRODUCING THRU RESERVOIR TEMPERATURE F BAR. PRESS - P<sub>a</sub>  
 14.4 Psia

GAS GRAVITY - G<sub>g</sub> % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID  
 1.5827

VERTICAL DEPTH (H) TYPE METER CONN. (METER RUN) (PROVER) SIZE  
 F 12

SHUT-IN PRESSURE: SHUT IN 19 AT (AM)(PM) TAKEN 19 AT (AM)(PM)  
 FLOW TEST: STARTED 19 AT (AM)(PM) TAKEN 19 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>t</sub> )(P <sub>c</sub> ) psia	psig	(P <sub>w</sub> )(P <sub>t</sub> )(P <sub>c</sub> ) psia		
SHUT-IN						25.2	39.6				
FLOW	.750	24.1	1.12	60		24.2	38.6				

RATE OF FLOW CALCULATIONS

COEFFICIENT (F <sub>p</sub> )(F <sub>d</sub> ) Mofd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. T <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mofd	GOR	Q <sub>m</sub>
2.779	38.5	6.57	1.31	1.0	1.011	24.18		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 1568.16 (P<sub>w</sub>)<sup>2</sup> = 1489.96 P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ (P<sub>d</sub>)<sup>2</sup> = 0.207

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	$\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	LOG [ ]	"n"	n x LOG [ ]	ANTILOG	OPEN FLOW DELIVERABILITY EQUALS R x ANTILOG Mofd
1360.80	78.20	17.402	1.2405	.718	.8907	7.775	188.0

OPEN FLOW 188 Mofd @ 14.65 psia DELIVERABILITY 188 Mofd @ 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\_\_\_\_. JUN 9 1987

Witness (if any)  
Dale F. Balchazor  
 For Commission

CONSERVATION COMMISSION  
 Wichita, Kansas  
 Checked by