

15-181-20103-00-01  
**STATE OF KANSAS - CORPORATION COMMISSION**  
**ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

pp 3-16  
12-3-86

FORM O-2  
8-7-58

**TYPE TEST:**  Deliverability  Open Flow      **TEST DATE:** 6-2-86

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**COMPANY:** GOODLAND GAS COMPANY      **LEASE:** Briney      **WELL NO.:** 2-35

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**COUNTY:** Sherman      **LOCATION:** SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , SW $\frac{1}{4}$       **SECTION:** 35      **TWP:** 7S      **RNG:** 39W      **ACRES:**

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**FIELD:** Goodland      **RESERVOIR:** Niobrara      **PIPELINE CONNECTION:** KN Energy

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**COMPLETION DATE:** 4-25-82      **PLUG BACK TOTAL DEPTH:** 1010      **PACKER SET AT:** None

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**CASING SIZE:** 4 $\frac{1}{2}$ "      **WT.:** 9.5#/ft      **I.D.:**      **SET AT:** 977      **PERF.:** None      **TO:**

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**TUBING SIZE:** None      **WT.:**      **I.D.:**      **SET AT:**      **PERF.:**      **TO:**

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**TYPE COMPLETION (Describe):** Open hole      **TYPE FLUID PRODUCTION:** Gas

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**PRODUCING THRU:** Casing      **RESERVOIR TEMPERATURE, F:**      **BAR. PRESS - P<sub>s</sub>:** 13.2 ~~13.2~~ Psia

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**GAS GRAVITY - G<sub>g</sub>:** 0.5837      **% CARBON DIOXIDE:** 1.98      **% NITROGEN:** 2.79      **API GRAVITY OF LIQUID:**

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**VERTICAL DEPTH (ft):**      **TYPE METER CONN.:** Orifice      **(METER RUN) (PROVER) SIZE:** 2.067

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**SHUT-IN PRESSURE: SHUT IN:** 5-27 19 86 AT (AM)(PM) TAKEN 5-30 19 86 AT (AM)(PM)

**FLOW TEST: STARTED:** 5-30 19 86 AT (AM)(PM) TAKEN 6-2 19 86 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	--	--	--	--	--	31	44.2	--	--	72	--
FLOW	0.750	--	--	58	--	21.8	35	--	--	72	--

**RATE OF FLOW CALCULATIONS**

COEFFICIENT (F <sub>w</sub> )(P <sub>d</sub> ) <sup>2</sup> Mcfd	(METER) (PROVER) PRESSURE psia	EXTENSION $\sqrt{P_m h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP. F <sub>L</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
115.1	--	--	1.3089	1.0019	1.0013	62	--	--

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

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

$\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	(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 Mcfd
1.779	0.729	2.442	0.388	0.718	0.278	1.899	118

**OPEN FLOW** 118 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 25<sup>th</sup> day of NOV, 1986.

*Robert M. Richardson*  
For Company

DEC 5 1986

Witness (if any) \_\_\_\_\_  
For Commission

Checked by DEC 1 1986