KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Dynamic Choose formula 1 or 2 Choose fo	$\overline{}$
Company Company Company Cook Farms 14-9 Well Num	U
ounty Location W2-SE-SW-SW 9 2S 38W eld Pheyenne W2-SE-SW-SW 9 2S 38W eld Reservoir Section TWP RNG (E/W) Acres Att Perforation Southern Star mompletion Date (Niobrara Suthern Star Sut	
Theyenne W2-SE-SW-SW 9 2S 38W Reservoir Niobrara Gas Gathering Connection Southern Star Fiberry Creek Niobrara Southern Star Plug Back Total Depth Packer Set at 1/30/09 1/44.2° Internal Diameter Set at Perforations To 1/44.12° 17#, 11.6# 97/8", 61/4" 255', 1483' 1286' 1312' Internal Diameter Set at Perforations To 1/4 1/2" 17#, 11.6# 97/8", 61/4" 255', 1483' 1286' 1312' Internal Diameter Set at Perforations To 1/4 1/2" 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/2" 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/2" 1/4" 1.995 Internal Diameter Set at Perforations To 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1/4" 1.995 Internal Diameter Set at Perforations To 1/4 1.995 Internal Di	ber
Cherry Creek	ributed
1/30/09	
17, 4 1/2"	
1.995 1.99	
Single (gas) Saltwater Yes Producing Thru (Annutus / Tubing) Pressure Buildup: Shut in 6/1 20 11 at 11:00 (AM) (PM) Taken 20 at (Al) (Al) (Al) (Al) (Al) (Al) (Al) (Al)	
Pressure Taps (Meter Run) (Provence Taps	
Pressure Buildup: Shut in 6/1 20 11 at 11:00 (AM) (PM) Taken 20 at (Al) (PM)	<u></u>
Started G/2 20 11 at 2:00 (AM) PM Taken 20 at (Al)	ver) Size
Started G/2 20 11 at 2:00 (AM) PM Taken 20 at (AI) (AI) (AII) (AII) (AII) (AII) (AIII)	M) (PM)
Static / Orifice Dynamic Property (inches) Pressure (inches) Property (inches) Prope	
Static / Orifice Size Property (inches) Prover Pressure psig (Pm) Inches H ₂ 0	Hours
Shut-In Flow FLOW STREAM ATTRIBUTES Plate Coefficient (F _b)(F _p) Mcfd Prover Pressure psia COPEN FLOW) (DELIVERABILITY) CALCULATIONS (P _a) ² =	Produced arrels)
FLOW STREAM ATTRIBUTES Plate Coefficient (F_b) (F_p) Meter or Prover Pressure psia OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P_a) P_a P_b P_a P_b $P_$	
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Coefficient (F _b) (F _c) Meter or Prover Pressure psia (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P _a) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² = : (
$(P_a)^2 = $: $(P_w)^2 = $: $P_g = $. $(P_c - 14.4) + 14.4 = $: $(P_d)^2 = $. Backgrassure Curve	Flowing Fluid Gravity G _m
$(P_a)^2 = $: $(P_w)^2 = $: $P_d = $ % $(P_c - 14.4) + 14.4 = $: $(P_d)^2 = $ Choose formula 1 or 2: $P_d = $ Backgrassure Curve	
Choose formula 1 or 2: Rankmrassura Curva	7
(P _c) ² · (P _d) ² (P _c) ² · (P _d) ² 1. P _c ² - P _c ² LOG of formula formula 1. or 2. Slope = 'n' n x LOG Antillog Equals R	n Flow erability 3 x Antilog lcfd)
Open Flow 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 facts stated therein, and that said report is true and correct. Executed this the 11 day of November , 20	dge of 11 ECEIV
Cheux Hohuson	
Witness (If any)	EC U2

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
correct to the best of equipment insta I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records llation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the
(Check	is a coalbed methane producer
	is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D
_	to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 11/11/2011	
	Signature: Lough Johnson Title: Regulatory Analyst II

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The forecombined and dated on the front side as though it was a verified report of annual test results.

DEC 02 2011

KCC WICHITA