KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	Form (Rev. 7	3-27/03)	-
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	Flowing Fluid Gravity G _m		

(See Instructions on Reverse Side) Type Test: Open Flow Test Date: API No. 15 Deliverabilty 15-023-21209 -0000 Wel Company Lease WISENENW) Noble Energy, Inc. Nelson 21-17 TWP RNG (E/W) County Location Section Acr Chevenne 38W 28 Field Reservoir Gas Gathering Connection Cherry Creek Niobrara Southern Star Completion Date Plug Back Total Depth Packer Set at 1/21/2009 1519 Casing Size Weight Internal Diameter Set at Perforations Τo 7", 4+1/2" 17#, 10.5# 292, 1563 9+7/8", 6+1/4" 1358 1380 Tubing Size Weight Internal Diameter Set at Perforations 2+3/8" 4.7# 1.995 1404 Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Saltwater Single (gas) yes Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravit tubina Vertical Depth(H) Pressure Taps (Meter Run 20.12 at 7:15 7/24 ______ 20 ___ at ____ Pressure Buildup: (AM) (PM) Taken_ Started 7/25 20 12 at 8:15 _____ 20 ___ at _ Well on Line: **OBSERVED SURFACE DATA** Duration of Shut-in Circle one: Pressure Casing Tubing Flowing Static / Orifice Well Head Meter Duration Differential Wellhead Pressure Wellhead Pressure Dynamic Size Temperature Temperature Prover Pressure (P_{+}) or (P_{+}) or (P_{c}) (P_u) or (P_t) or (P_c) (Hours) in Property (inches) t psig (Pm) Inches H₂0 psig psia psia Shut-In 45 Flow **FLOW STREAM ATTRIBUTES** Circle one Flowing Plate Press Gravity Deviation Metered Flow GOR Meter or Coeffiecient Extension Temperature Factor Factor (Cubic Feet/ R (F_b) (F_p) Mcfd Prover Pressure Factor **₽**xh F, Fpv (Mcfd) Barrell psia F_{α} (OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_a)^2 = 0.207$ $(P_{.})^{2} =$ $(P_{w})^{2} =$ $(P_c - 14.4) + 14.4 =$ $(P_d)^2 =$ Choose formula 1 or 2: Backpressure Curve Open Flow LOG of $(P_s)^2 - (P_s)^2$ $(P_{x})^{2} \cdot (P_{x})^{2}$ 1. P_c²-P_a² Stope = "n" n x LOG Deliverability formula - or - - - -Antiloa 2. P.2-P.2 1. or 2. and divide Equals R x Antilog $(P_c)^2 - (P_d)^2$ Assigned P 2 - P 2 (Mcfd) od by: P₂ - P₃ Standard Slope 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 of __ day of _November the facts stated therein, and that said report is true and correct. Executed this the 30Witness (if any) For Company For Commission Checked by

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named.
	ounds that said well:
_	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 11-30-201	<u>4</u>
	Signature:
	Title: Regulatory Analyst

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 form must be signed and dated on the front side as though it was a verified report of annual test results.