## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:			ť	See Inst.	ructions on Re	verse Side	)			
	en Flow liverabilty			Test Date	<b>:</b> :				No. 15		
Company	,		· · · · · · · · · · · · · · · · · · ·			Lease Bucholt	<del></del>	15-	181-20576	41-6	Well Number
Noble Energy Inc  County Location Sherman NW-NE-NE-NE			Section 6	Section TWP			RNG (E/W)		41-0	Acres Attributed	
Field		1444-14		Reservoir	Reservoir			39W Gas Gathering Connection			
Prairie Star  Completion Date				Niobrara Plug Back Total Depth				Star Set at			
5/11/2011 Casing Size Weight			1517'	1517' Internal Diameter Set			Perfo	rations	То		
7", 4 1/2" 17#, 11.6#		9 7/8",	6 1/4"	401'	401', 1564'		1334'		1364'		
Tubing Size Weight 2 3/8" 4.7#			1.995	Internal Diameter Set at 1.995			Perforations To				
Type Com Single (g	npletion (D gas)	Describe)			Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No yes			
Producing Tubing	Thru (Ar	nulus / Tubir	ng)	% C	% Carbon Dioxide				% Nitrogen Gas (		iravity - G <sub>g</sub>
Vertical D	epth(H)				Pressure Taps					(Meter	Run) (Prover) Size
Pressure I	Buildun:	Shut in 5/	16 ,	0 11 at 1	0:15	(PM)	Taken			n at	(AM) (PM)
Well on Li	•		1 2								(AM) (PM)
					OBSEF	RVED SURFACE	E DATA			Duration of Shu	t-in 360 Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Press	Differential in	Differential Flowing Temperature		ed Wellhead	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> )		Tubing ad Pressure r (P,) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Shut-In		psig (Pm	) Inches H <sub>2</sub> 0			psig 175	psia	psig	psia		1
Flow											
			-,		FLOW S	STREAM ATTR	BUTES				
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		Temperature F.		viation Metered Flow actor R F <sub>pv</sub> (Mcfd)		ow GOR (Cubic F Barrel	est/ Fluid
			<u> </u>	(OPEN FLI	OW) (DE	LIVERABILITY	CALCUI	ATIONS			
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>*</sub> ) <sup>2</sup>	=;	P <sub>d</sub> =			· 14.4) +		;		) <sup>2</sup> = 0.207 ) <sup>2</sup> =
(P <sub>c</sub> ) <sup>2</sup> - (P or (P <sub>c</sub> ) <sup>2</sup> - (P	-	P <sub>c</sub> )² - (P <sub>w</sub> )²	1. P <sub>e</sub> <sup>2</sup> -P <sub>e</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> -P <sub>e</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> -P <sub>e</sub> <sup>2</sup>	2. P <sup>2</sup> -P <sup>2</sup> 1. or 2.		Backpressur Slope =or- Assign Standard		n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
						·····					
Open Flow	<u> </u>	ļ	Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd <b>©</b> 14.65 ps	sia
		d authority, o			tates tha			o make th	ne above rep	port and that he h	
ne facts st	ated there	oin, and that s	said report is true	and correct	t. Execu	ted this the 11	·//	day of N	ovember	1	RECEIV
							<u>M</u>	w	<u>[ ]                                   </u>	Lusi	MDEC 02
		Witness	(it any)						// Fo	r Company	<del>-</del> -

exempt status un	der 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
correct to the bes	going pressure information and statements contained on this application form are true and stoff my knowledge and belief based upon available production summaries and lease records callation and/or upon type of completion or upon use being made of the gas well herein named.
	rounds 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 te to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
	Signature: Clery Joseph 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 former bed signed and dated on the front side as though it was a verified report of annual test results.

DEC 0 2 2011 KCC WICHITA



## NATURAL GAS ANALYSIS

PROJECT NO.:

201106109

ANALYSIS NO.:

02

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE:

JUNE 26, 2011

ACCOUNT NO.:

YUMA

SAMPLE DATE: TO: JUNE 16, 2011

PRODUCER: LEASE NO.:

E1518120576

EFFECTIVE DATE: JULY 1, 2011

NAME/DESCRIP.:

**BUCHOLTZ 41-6** 

\*\*\*FIELD DATA\*\*\*

SAMPLED BY:

M. MCCALL

CYLINDER NO.:

53

SAMPLE PRES.: SAMPLE TEMP.: 161 91

AMBIENT TEMP.:

**GRAVITY:** VAPOR PRES.:

**SAMPLE TYPE: SPOT** FIELD COMMENTS: NO PROBE

LAB COMMENTS:

	NORM.	GPM @	GPM @	9
COMPONENTS	MOLE%	14.65		14.73
HELIUM	0.11	•	-	
HYDROGEN	0.06	•	-	
OXYGEN/ARGON	0.04	-	-	
NITROGEN	4.21	-	-	
CO2	0.53	-	-	
METHANE	93.09	-	-	
ETHANE	1.37	0.364		0.366
PROPANE	0.40	0.110		0.110
ISOBUTANE	0.07	0.023		0.023
N-BUTANE	0.07	0.022		0.022
ISOPENTANE	0.02	0.007		0.007
N-PENTANE	0.01	0.004		0.004
HEXANES+	0.02	0.009		0.009
TOTAL	100.00	0.539		0.541
BTU @ 60 DEG F		14.65		14.73
NET DRY REAL =		883.1		888.0
NET WET REAL =		867.7		872.6
GROSS DRY REAL =		980.4		985.7
GROSS WET REAL =		963.3		968.6

RELATIVE DENSITY REAL (AIR=1 @ 14.696 PSIA 60F):

0.5903

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS

THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES. THE USE OF THIS INFORMATION IS THE RESPONSIBLITY OF THE USER. EMPACT ANALYTICAL SYSTEMS, ASSUMES NO RESPONSIBLITY FOR ACCURACY OF THE REPORTED INFORMATION NOR ANY CONSEQUENCES OF IT'S APPLICATION.

> RECEIVED DEC 0 2 2011. KCC WICHITA

EMPACT Analytical Systems, Inc. 365 S. Main St. Brighton, CO 80601 303-637-0150