KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	::					(See Instruc	tions on Re	verse Side))				
Open Flow						Test Date: API No. 15								
De	liverab	ilty				iesi Dale	J.				181-20578-0	0-00		
Company Noble E		Inc						Lease Bucholt	z			32-6	Well Nu	mber
County Location Sherman NE-NE-SW-NE				Section 6		TWP 6S			RNG (E/W) 39W		Acres Attributed			
Field Prairie Star					Reservoir Niobrara			Gas Gathering Connection Prairie Star				<u> </u>		
Completion Date 5/10/2011				Plug Back Total Depth 1496'			Packer Set at							
Casing Size Weight 7", 4 1/2" 17#, 11.6#				Internal E 9 7/8",		Set at 403', 1539'		Perforations 1362'		то 1391'				
Tubing Size Weight 2 3/8" 4.7#				Internal [1.995		Set at		Perforations		То	То			
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No yes						
	- :	(Anr	nulus / Tubii	ng)		% C	% Carbon Dioxide			<u> </u>		Gas Gra	Gas Gravity - G _g	
···········						Pres	ssure Taps				(Meter Run) (Prover) Size			
Pressure	Buildu	p : :	Shut in 5/	15	20	11 at 1	1:00	(AM) (PM)	Taken		20	at	((AM) (PM)
			20	11 at 1	0:45	_		20		at				
							OBSERVE	D SURFAC	E DATA			Duration of Shut-	in_384	4Hours
Static / Dynamic Property	namic Size		Meter Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature t	(P _*) or (P _t) or (P _a)		Tubing Wellhead Pressure (P_x) or (P_t) or (P_c)		Duration Liquid Produ (Hours) (Barrels)		I .
Shut-in			psig (Fili	<u>, </u>	Inches H ₂ 0			psig 190	psia	psig	psia			
Flow														
					•		FLOW STR	REAM ATTR	IBUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Gra Extension Fac ✓ P _m x h F		tor	Temperature Fe		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
(P _c)² =		_:	(P _w) ²	=	:	(OPEN FLO	<i>,</i> ,	'ERABILITY % (F) CALCUL P _e - 14.4) +		:	(P _a) ² (P _d) ²	? = 0.2 ? =	07
(P _c) ² -(P _s) ² or (P _c) ² -(P _d) ²		(P _c) ² - (P _w) ²		Choo	1. P ² . P ² LOG form: 2. P ² . P ² 1. 1. or in the control of t		P.2. P.2	Backpressure Curve Slope = "n"		, a x 100		Antilog	Open Flo	
0					harta © 444	\		5-"	.7814			44.04.5		
Open Flov					Mcfd @ 14.6			Deliverab				Mcfd @ 14.65 psi		
		_	n, and that s	said	report is true			-			ovember	t and that he ha	: R	ECEIVED
			Witness		· ·			_				ompany	D	EC UZ Z
			For Com	missio	on						Check	ked by	K	CC WICH

	er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the forego correct to the best of equipment instal 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 lation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the Bucholtz 32-6
_	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: Cley Johnson Title: Regulatory Analyst 11

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 lateral December 31 of the year for which it's intended to acquire exempt status for the subject well. The formula be 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.:

18

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE:

JUNE 26, 2011

ACCOUNT NO.:

YUMA

SAMPLE DATE: TO: JUNE 16, 2011

PRODUCER:

LEASE NO.:

E1518120578

EFFECTIVE DATE: JULY 1, 2011

142

NAME/DESCRIP.:

BUCHOLTZ 32-6

FIELD DATA

SAMPLED BY:

M. MCCALL

CYLINDER NO.:

SAMPLE PRES.: 100

AMBIENT TEMP. :

0.5925

SAMPLE TEMP.: SAMPLE TYPE:

93 **SPOT** **GRAVITY: VAPOR PRES.:**

FIELD COMMENTS: NO PROBE

LAB COMMENTS:

	NORM.	GPM @	GPM @
COMPONENTS	MOLE%	14.65	14.73
HELIUM	0.12	•	-
HYDROGEN	0.03	-	-
OXYGEN/ARGON	0.04	-	•
NITROGEN	4.33	-	-
CO2	0.64	-	-
METHANE	92.84	-	-
ETHANE	1.39	0.370	0.372
PROPANE	0.41	0.112	0.113
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+	0.03	0.013	0.013
TOTAL	100.00	0.551	0.554
BTU @ 60 DEG F		14.65	14.73
NET DRY REAL =		881.8	886.6
NET WET REAL =		866.4	871.2
GROSS DRY REAL =		978.9	984.2
GROSS WET REAL =		961.8	967.1

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

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

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.

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

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