KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				ť	See Instruc	tions on Re	verse Side	3)					
Open Flow				Test Date	Test Date: API No. 15									
De	liverab	ilty								181-20574-00	-00			
Company Noble E		Inc					Lease Buchol	tz			11-6	Well N	umber	
County Location Sherman NW-SE-NW-NW				Section 6				RNG (E 39W	/W)		Acres	Attributed		
Field Goodland Niobrara Gas Area					Reservoir Niobrara			Gas Ga Prairie	thering Connec	tion		··· · · · · · · · · · · · · · · · · ·		
Completion Date 4/29/2011				Plug Bac 1492'	Plug Back Total Depth 1492'			Packer	Set at					
Casing Size Weight 7", 4 1/2" 17#, 11.6#			Internal (9 7/8",			Set at 376', 1533'		Perforations 1317'		To 1350'				
	Tubing Size Weight				Internal I					orations	То			
Type Con Single ((De			Type Flui	Type Fluid Production Saltwater			Pump Unit or Traveling Plunge yes		lunger? Yes	/ No		
		(Anr	iulus / Tubing	1)		% Carbon Dioxide			% Nitrogen		Gas G	Gas Gravity - G _g		
Tubing Vertical D	N						-		,		· · · · · · · · · · · · · · · · · · ·	= :		
vertical L	eptn(H	,				Pres	ssure Taps				(Meter	Run) (F	Prover) Size	
Pressure	Buildup	o: \$	Shut in	2	0 11 at 1	0:00	(PM)	Taken		20 _	at		(AM) (PM)	
Well on L	ine:	,	Started 6/1	20	11 at 9	:45	(PM)	Taken		20 _	at		(AM) (PM)	
				· · · · · · · · · · · · · · · · · · ·		OBSERVE	D SURFAC	E DATA			uration of Shu	1-in 64	8 Hours	
Static / Dynamic	ynamic Size		Circle one: Meter Prover Pressu	Pressure Differential in	Flowing Well Head Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _a)		Tubing Wellhead Pressure (P_) or (P,) or (P,)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	Property (inches)		psig (Pm)	Inches H ₂ 0	t t		psig 185	psia	psig	psia	····			
Flow		\dashv			<u> </u>		100		 	_				
	-, ,					L FLOW STR	L REAM ATTR	RIBUTES	<u> </u>					
Plate	,		Circle one:	Press	Grav	Gravity Flowing			iation	Metered Flow	600	GOR Flo		
Coeffiect			Meter or ver Pressure	Extension	Fac	tor	Temperature Factor	Fa	ctor R		(Cubic F	eet/	et/ Fluid Gravity	
	Mcfd		psia	√ P _m ×h	F,		F _{tt}	-	Pv	(Mcfd)	Barret)	G _m	
					(ODEN SI		.55.50		4515116			·-··		
(P _c) ² =		:	(P _*) ² =	:	P _a =		/ERABILITY % (I) CALCUL P _e - 14.4) +) ² = 0.2) ² =	207	
	T		1	Choose formula 1 or 2:			1	ssure Curve	1				pen Flow	
(P _c) ² - (F	·	(P	(P_)2 - (P_)2	1. P ₂ ² · P ₂ ² 2. P ₂ ² · P ₂ ²	formula 1, or 2.			pe = "n" - or	лх	rog	Antilog	De	liverability	
(P _e)² - (F	P _a)z			tivided by: Pc2-P2	and divide	P ₂ - P ₂ 2		signed lard Slope				Equal	s R x Antilog (Mcfd)	
												<u> </u>		
				·										
Open Flow Mcfd @ 14.65 psia					Deliveral	oility		М	ofd @ 14.65 ps	sia	 .			
The t	undersi	gned	authority, on	behalf of the	Company, s	tates that h	ne is duly a	uthorized to	o make th	ne above report	and that he h	as knov	vledge of	
the facts st	tated th	ereir	n, and that sa	id report is true	and correc	t. Executed	I this the 1	1	day of N	lovember		<u> </u>	20 11 .	
			Witness (if	any)			-	CL	ery	For Con	Lusor	RE(CEIVED	
.			For Commi				-			Checke		DEC	<u>0 2 201</u> 1	

exempt status und and that the foreg correct to the best of equipment insta	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 Incoing 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.
	st a one-year exemption from open flow testing for the Bucholtz 11-6 punds that said well:
(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.
	Signature: Charles Johnson Title: Regulatory Analyst II

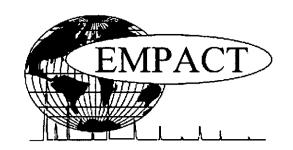
Instructions:

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

DEC 0 2 2011



NATURAL GAS ANALYSIS

PROJECT NO.:

201106109

ANALYSIS NO.:

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE: SAMPLE DATE:

JUNE 26, 2011 JUNE 16, 2011

ACCOUNT NO.:

YUMA

TO:

PRODUCER: LEASE NO.:

E1518120574

EFFECTIVE DATE: JULY 1, 2011

NAME/DESCRIP.:

BUCHOLTZ 11-6

FIELD DATA

SAMPLED BY:

M. MCCALL

CYLINDER NO.:

568

SAMPLE PRES.: SAMPLE TEMP.: 169 87

AMBIENT TEMP.:

0.5900

GRAVITY: VAPOR PRES.:

SAMPLE TYPE:

SPOT

FIELD COMMENTS: NO PROBE

LAB COMMENTS:

	NORM.	GPM @	GPM @	
COMPONENTS	MOLE%	14.65	14.73	
HELIUM	0.11	-	-	_
HYDROGEN	0.06	-	-	
OXYGEN/ARGON	0.04	-	*	
NITROGEN	4.46	-	-	
CO2	0.39	-	-	
METHANE	92.92	-	-	
ETHANE	1.43	0.380	0.3	382
PROPANE	0.41	0.112	0.1	113
ISOBUTANE	0.07	0.023	0.0	023
N-BUTANE	0.07	0.022	0.0	022
ISOPENTANE	0.02	0.007	0.0	007
N-PENTANE	0.01	0.004	0.0	004
HEXANES+	0.01	0.004	0.0	004
TOTAL	100.00	0.552	0.:	555
BTU @ 60 DEG F		14.65	14	.73
NET DRY REAL =		882.3	88	7.1
NET WET REAL =		866.9	87	71.7
GROSS DRY REAL =		979.4	98	4.8
GROSS WET REAL =		962.3	96	7.7

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.

> RECEIVED DEC 0 2 2011 KCC WICHITA

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