KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: (See Instructions on Reverse Side)													
Open Flow Deliverabilty			Test Date	Test Date:				API No. 15 15-023-21282-00-00					
Company Noble E		Inc					Lease Nipps				13-33	Well Nu	mber
County Location Cheyenne NE-NW-NW-SW				Section 33				RNG (E	W)	J	Acres Attributed		
					Reservoir Niobrara			Gas Gathering Connection Kinder Morgan					
Completion 4/21/11	on Dat	9			Plug Bac 1494'	k Total Dept	h		Packer 9	Set at			
Casing Size Weight 7", 4-1/2" 17#, 11.6#				Internal D 9-7/8",		Set at 416',1538'		Perforations 1330'		To 1361'			
Tubing Size Weight 2-3/8" 4.7#			Internal E 1.995	Internal Diameter Set at 1.995			Perforations		То	То			
Type Cor Single (•	n (D	escribe)			Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes				
Producing Tubing	g Thru	(Anı	nulus / Tubing)	% C	% Carbon Dioxide			% Nitrogen Gas			s Gravity - G _g	
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size													
Pressure	Buildu	p:	Shut in	32	11 at 1	2:00	(AM) (PM) 1	Taken		20	at	(AM) (PM)
Well on L	.ine:		Started 6/1	2	0 <u>11</u> at <u>1</u>	1:45	(PM)	Taken		20	at	(AM) (PM)
	OBSERVED SURFACE DATA Duration of Shut-in 864 Hours												
Static / Orifice Dynamic Size Property (inches)		e	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing ad Pressure r (P _t) or (P _c)	, ,		d Produced . Barrels)
Shut-In							180	,	psig				
Flow										ļ			
						FLOW STR	EAM ATTRIS	BUTES					,,
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Extension Fact		tor Temperature		Deviation Metered Factor R F _{pv} (Mct		ow GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
										•			
(D.)			(D.)3		•	, ,	ERABILITY)				-	² = 0.2	07
(P _c)² =		<u>-</u> :		: Choose formula 1 or 2	P _d =	 `	1	- 14.4) +		 :	(P _d)		
(P _c) ² - (or (P _c) ² - ((F	P _c) ² - (P _w) ²	1. P _c ² - P _s ² 2. P _c ² - P _c ² wided by: P _c ² - P _c	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slope Assi	sure Curve = "n" or gned rd Slope	nx	LOG	Antilog	Deli Equals	en Flow iverability R x Antilog (Mcfd)
												<u></u>	
Open Flow Mcfd @ 14.65 psia					Deliverability Mcfd @ 14.65 psia								
		_	•	behalf of the	• •		•			ne above repo lovember	ort and that he ha		ledge of
							_(Ch	w	O Ho	Line	ÆE N	/ED
			Witness (if	any)						For	Company	Pau.	FED.
For Commission Checked by								cked by	. 13	ZU11			

KCC WICHITA

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the foreg	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
I hereby reque	allation 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 Nipps 13-33 ounds that said well:
(Check	one) 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 to corroborate this claim for exemption from testing.
Date: 11/28/2011	
	Signature: Leuf 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 form must be signed and dated on the front side as though it was a verified report of annual test results.

DEC 13 2011



NATURAL GAS ANALYSIS

PROJECT NO.:

201106109

ANALYSIS NO.:

ACCOUNT NO.:

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE: SAMPLE DATE:

JUNE 26, 2011 JUNE 16, 2011

PRODUCER:

YUMA

TO:

LEASE NO.:

E1502321282

S. KENNEDY

EFFECTIVE DATE: JULY 1, 2011

NAME/DESCRIP.: NIPPS 13-33

FIELD DATA

CYLINDER NO.:

0.5915

592

SAMPLED BY: SAMPLE PRES.: SAMPLE TEMP.:

SAMPLE TYPE:

148

AMBIENT TEMP.:

79

SPOT

GRAVITY: VAPOR PRES.:

FIELD COMMENTS: NO PROBE

LAB COMMENTS:

	NORM.	GPM @	GPM @	
COMPONENTS	MOLE%	14.65	14.73	
HELIUM	0.12	-	-	
HYDROGEN	0.07	-	-	
OXYGEN/ARGON	0.04	•	•	
NITROGEN	4.40	•	•	
CO2	0.50	•	٠	
METHANE	92.87	•	-	
ETHANE	1.38	0.367		0.369
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	0.02	0.007		0.007
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 =		882.4		887.2
NET WET REAL =		867.0		871.8
GROSS DRY REAL =		979.5		984.9
GROSS WET REAL =		962.4		967.8

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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