KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

7

Type Tes					(See Instruct	tions on Rev	rerse Side))				
Open Flow Deliverabilty				Test Date	Test Date:				API No. 15 15-023-21332-00-00				
Company Noble E		Inc				······································	Lease Rueb Fa	arm			24-168	Well Num	nber
County Location Cheyenne NE-SE-SW				Section 16				RNG (E/W) 42W			Acres At	tributed	
				Reservoir Niobrara			Gas Gathering Connection Kinder Morgan		ection				
Completion Date 9/1/2011				Plug Bac 1679	Plug Back Total Depth 1679			Packer S	Set at				
Casing Size Weight 7", 4-1/2" 17#, 10.5#				Internal Diameter 9-7/8", 6-1/4"		Set at 317',1719		Perforations 1530'		то 1583'			
Tubing Size Weight			Internal (Internal Diameter Set at			Perforations		То	То			
Type Cor Single (escribe)		• •	Type Fluid Production Saltwater			Pump Unit or Traveling Plunge		Plunger? Yes	/ No	
		(An	nulus / Tubin	g)	% (% Carbon Dioxide			% Nitrogen		Gas Gr	Gas Gravity - G	
Annulus Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Si								uor) Sizo					
vortical L	ocpui(',				1163	sule laps				(INIGIO) I	iuii) (Fio	VOI) 3128
Pressure	Builde	ib:	Shut in 9/6	2	11 at 9	:50	(AM) (PM)	Taken		20	at	(A	M) (PM)
Well on L	ine:		Started 9/1		11 at 1		$\overline{\mathbf{z}}$				at		
						OBSERVE	D SURFACE	DATA			Duration of Shut-	169	Hours
Static / Dynamic	I Malar I Differential I		Flowing Well Head Temperature Temperature		Casing Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _*) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)			
Property (inch		es) psig (Pm)		Inches H ₂ 0	1 1		psig psig	psia psig		psia psia	(110010)	(32,	
Shut-In							229					<u> </u>	
Flow												<u> </u>	
Dieta			Circle one:			FLOW STR	Flowing	BUTES					Flauring
Plate Coeffiecient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia		Press Extension Pmxh	n Factor		Temperature Factor F ₁₁		ctor R		GOR (Cubic Fer Barrel)	eV	Flowing Fluid Gravity G _m
											-		
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P _*)	= 0.20	
(P _c) ² =		<u> </u>	(P _w) ² =		P _d =		% (P	_c - 14.4) +	14.4 =	:	(P _d) ²	=	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. P ₂ ² - P ₃ ² 2. P ₂ ² - P ₃ ² divided by: P ₂ ² - P ₂ ²	LOG of formula 1, or 2, and divide by:	P.2. P.2	Backpressure Curve Slope = "n"		n x LOG		Antilog Open I Delivers Equals R (Mcf		erability R x Antilog
						· · · · · · · · · · · · · · · · · · ·							
Open Flow Mcfd @ 14.65			55 psia	5 psia Deliverability			Mcfd ❷ 14.65 psia						
The	ınders	igned	authority, o	n behalf of the	Company, s	states that h	e is duly au	thorized to	make th	ne above repor	t and that he ha	s knowle	dge of
the facts s	tated t	herei	n, and that s	aid report is true	and correc	t. Executed	this the 6	17/	dety of D	ecember	[, 20	11.
			Witness (if any)	···			M	ey	For C	OTTOBANY	EIVE	D
,			For Comm	nission			_		V	Check	DEC_	132	011

KCC WICHITA

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	t the foregoing pressure information and statements contained on this application form are true and
	to the best of my knowledge and belief based upon available production summaries and lease records
	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
	reby request a one-year exemption from open flow testing for the Rueb Farm 24-16B
	Il on the grounds 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
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
	necessary to corroborate this claim for exemption from testing.
stan as	recessary to corresorate this claim for exemption from testing.
.	3/6/2011
Date: _	2/6/2011
	Signature: Cheryl Johnson
	Title: Regulatory Analyst/h

Instructions:

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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.

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DEC 13 2011



NATURAL GAS ANALYSIS

PROJECT NO.: 201110131

ANALYSIS NO.:

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE: SAMPLE DATE:

OCTOBER 29, 2011 OCTOBER 20, 2011

ACCOUNT NO.: PRODUCER:

YUMA

TO:

LEASE NO.:

E1502321332

EFFECTIVE DATE: NOVEMBER 1, 2011

NAME/DESCRIP. : **RUEB FARM 24-16B**

FIELD DATA

SAMPLED BY:

M. MCCALL

CYLINDER NO.: AMBIENT TEMP.:

0.5903

0.99801

573

SAMPLE PRES. :

SAMPLE TEMP.:

GRAVITY: VAPOR PRES.:

SAMPLE TYPE: FIELD COMMENTS:

LAB COMMENTS:

	NORM.	GPM @	GРМ @	
COMPONENTS	MOLE%	14.65	_	.73
HELIUM	0.09	-	-	
HYDROGEN	0.01	-	•	
OXYGEN/ARGON	0.04	-	•	
NITROGEN	4.36	•	•	
CO2	0.46	•	-	
METHANE	93.27	-	-	
ETHANE	1.17	0.311		0.313
PROPANE	0.38	0.104		0.105
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+	0.05	0.022		0.022
TOTAL	100.00	0.493		0.496
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):

COMPRESSIBILITY FACTOR:

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.

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