KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	Type Test: (See Instructions on Reverse Side)												
Open Flow				Test Date: API No. 15									
De	liveral	oilty			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					023-21309-0	00-00		
Company Noble Energy Inc					Lease Rogers			Well Number 42-32					
County Location Cheyenne SE-SE-NE			Section 32				RNG (E/W) 39W		,	Acres Attributed			
Field Prairie Star				Reservoir Niobrara			Gas Gathering Connection Kinder Morgan						
Completion Date 6/2/2011			Plug Bac 1508'	Plug Back Total Depth 1508'			Packer S	Set at					
Casing Size Weight 7", 4-1/2" 17#, 11.6				Internal [9-7/8",	Set at 392',1554'		Perforations 1332'		то 1357'				
Tubing S 2-3/8'	Tubing Size Weight 2-3/8' 4.7#			Internal [1.995	Internal Diameter Set at 1.995			Perforations		То			
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater			Pump Unit or Traveling Plung Yes		Plunger? Yes	/ No			
		(An	nulus / Tubin	g)	% C	% Carbon Dioxide			% Nitrogen		Gas Gra	Gas Gravity - G	
Tubing						Bass	ouro Torr				/8 * a.a F	Que) (Prever) C'	
Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size													
Pressure Buildup: Shut in 6/7 20 11 at 10:00 (PM) Taken 20 at (AM) (PM)													
Well on L		-P-	Started 6/1	7 ,	0 11 at 7		$\stackrel{\smile}{-}$				at		
***************************************			Started		· ai			Taken					
	,		,			OBSERVE	D SURFACE	DATA			Duration of Shut-i	<u>л_238</u> но	
Static /	Dynamic Size		Meter Differential		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
, ,													
Shut-In			poig (i m)	mones rigo			psig 190	psia	psig	psia		,	
Flow													
				•		FLOW STR	EAM ATTRI	BUTES					
Plate Circle one: Press				Gravity		Flowing Dev		viation Metered Flow		v GOR	Flowing		
Coeffiecient (F _b) (F _b)		Meter or Prover Pressure		Extension	Fac F	tor	lemperature Factor		ctor	R (Mcfd)	(Cubic Fee Barrel)	et/ Fluid Gravity	
Meta			psia	✓ P _m xh	<u>'</u>		F _{tt}		pv	(MCIO)	Danen	G _m	
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS.		(P ₂) ²	= 0.207	
(P _c) ² =		<u>:</u>	(P _w) ² =		P _d =		% (P	_c - 14.4) +	14.4 = _	:	(P _a) ²		
(P _c)²- (P.)2	(F	P _e) ² - (P _u) ²	Choose formula 1 or 2 1. P _c ² - P _a ²	LOG of			ssure Curve				Open Flow	
or (P _a) ² - (P)2			2. P _c ² -P _d ²	formula 1. or 2. and divide			or	- n x	LOG	Antilog	Deliverability Equals R x Antil	
ν. , ,	· d/			divided by: P_c^2 - P_w^2		P _c ² - P _w ²		ard Slope				(Mcfd)	
												<u> </u>	
Open Flow Mcfd @ 14.65			65 psia	5 psia Deliverability			Mcfd @ 14.65 psia						
· ·		ianc	d authority o			states that h			o make 4		rt and that he ha		
		•	•		•		•			lovember	it and that he ha	20 <u>11</u>	
the facts stated therein, and that said report is true and correct. Executed this the 28 day of November . 20 11 .													
			Milmans '	if any)			_		ery	X /fo	Kuser	FCEINED	
			Witness (_		0			EC 13 20	
			For Comm	YSSION						Che	ked by		

	ler 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
and that the forest correct to the best of equipment install thereby requires	going pressure information and statements contained on this application form are true and t of my knowledge and belief based upon available production summaries and lease records 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 Rogers 42-32 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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date	Signature: Chery Dhush 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.

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DEC 1 3 2011



NATURAL GAS ANALYSIS

PROJECT NO.:

201109152

ANALYSIS NO.:

COMPANY NAME: NOBLE ENERGY

ANALYSIS DATE:

OCTOBER 3, 2011

ACCOUNT NO.:

YUMA

SAMPLE DATE:

SEPTEMBER 22, 2011

PRODUCER:

TO:

LEASE NO.: NAME/DESCRIP.: E1502321309

ROGERS 42-32

EFFECTIVE DATE: NOVEMBER 1, 2011

FIELD DATA

SAMPLED BY:

JOSHUA WALTERS

CYLINDER NO.: AMBIENT TEMP.: 564

SAMPLE PRES.: SAMPLE TEMP.:

38 73

GRAVITY:

SAMPLE TYPE:

COMPRESSIBILITY FACTOR:

SPOT

VAPOR PRES.:

0.99800

FIELD COMMENTS: NO PROBE LAB COMMENTS:

	NORM.	GPM @	GPM @
COMPONENTS	MOLE%_	14.65	14.73
HELIUM	0.11	-	-
HYDROGEN	0.00	•	•
OXYGEN/ARGON	0.05	-	-
NITROGEN	4.41	-	-
CO2	0.67	-	-
METHANE	92.74	-	-
ETHANE	1.39	0.370	0.372
PROPANE	0.43	0.118	0.118
ISOBUTANE	0.07	0.023	0.023
N-BUTANE	0.08	0.025	0.025
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	0.556	0.558
BTU @ 60 DEG F		14.65	14.73
NET DRY REAL =		881.1	885.9
NET WET REAL =		865.7	870.5
GROSS DRY REAL =		978.1	983.4
GROSS WET REAL =		961.0	966.3
RELATIVE DENSITY RE	EAL (AIR=1 @ 14.696 PSIA 60F):	0.5936	

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.

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