## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	ONI	E PU	INI SI				everse Side		EKABILII	1 1231	•		
	en Flow	,			Test Date	a·			AF	Pl No +				
Deliverabilty						Test Date:				API No. 1 15-023-21062-00-00				
Company Noble Energy, Inc.					Leas Har						Well Number 31-10			
County Location Cheyenne NE-SE-NW-NE				NF	Section 10		TWP 2S	TWP 2S		E/W)	Acres Attributed		ted	
Field					Reservoi					39W  Gas Gathering Connection  Southern Star via Record Compres				
Cherry Creek Niobrara Gas Area Completion Date					Plug Bac	k Total Der	oth	Packer Set at n/a			ecord Compres	3301		
9/11/2008 Casing Size Weight					1307' Internal (	Diameter	Set	Set at		orations	То			
7", 4-1/2" 17#, 10.5#				#	9-7/8", Internal (			166', 1347' Set at		18' orations	1157' To			
Tubing Size Weight 2-3/8" 4.7#					1.995"		12	1217'						
Type Completion (Describe) Single (Gas)					Type Fluid Production Saltwater			Pump Unit or Travelinç <b>Ye</b> s			g Plunger? Yes / No			
Producing Thru (Annulus / Tubing)					% (	Carbon Diox	ide		% Nitrogen			Gas Gravity - G <sub>g</sub>		
Tubing Vertical Depth(H)					Pressure Taps						(Meter I	Run) (Prover)	Size	
<del></del>		2. 2.	/27/		10 1	0:45				·····		40-00		
2/28/				10 11:00			M) (PM) TakenM) (PM) Taken							
Well on L	ine:	Started		20	at		. ((AIVI)) (PIVI	) laken	·	20	aı	*****	———	
		Circle an				OBSERV	ED SURFAC		1		Duration of Shut-	in <u>24</u>	Hours	
Static / Dynamic Property	Orific Size (inche	Meter Diffe		Pressure ifferential in ches H <sub>2</sub> 0	Flowing Femperature t	Well Head Temperature t	(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		poig (t t		CIICS 7120			psig psia 255		psig	psia				
Flow														
•						FLOW ST	REAM ATT	RIBUTES						
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ent ,)	Circle one: Meter or Prover Pressure psia		Press xtension P <sub>m</sub> x h	Grav Fac F	or Temperature		Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	(Cubic Fe Barrel)	et/ FI Gra	wing uid avity S <sub>m</sub>	
					(ODEN EI	OW) (DEL 11	/CDADUIT	V) CALCUI	ATIONS		<u> </u>			
(P <sub>c</sub> ) <sup>2</sup> =		_: (P <sub>w</sub> ) <sup>;</sup>	2 =	:	P <sub>d</sub> =			<b>Y) CALCUL</b> (P <sub>c</sub> - 14.4) +			(P <sub>a</sub> )	2 = 0.207 2 =	_	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		P <sup>2</sup> -P <sup>2</sup> C B C C C C C C C C C C C C C C C C C C		Backpr Ste		ressure Curve ope = "n" or ssigned idard Slope	, n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				- c w										
Open Flow Mcfd @ 14.65 psia							Delivera	Deliverability		Mcfd @ 14.65 psia				
	_	gned authority, erein, and that					•		o make day of _	•	rt and that he ha	, 20 <u>10</u>		
		Witnes	s (if any)						/	For C	ompany		_	
		For Co	mmission							Chec	cked by	MAY	<b>05</b> 2	

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing for the Ham 31-10
gas well on the grounds that said well:
(Check one)  is a coalbed methane producer  is a coalbed an plunger lift due to water
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
is not capable of producing at a daily fate in excess of 250 mc//b
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date: 4/30/10
Signature: Junet Burnett  Title: Regulatory Analyst

## 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.