KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	: en Flo liverab					(Test Date		tructi	ions on Rev	verse Side	API	No. 15 023-20798-0	00-00			
Company Noble Er		Inc					·		Lease Raile				41-3	Well N	umber	
County Location Cheyenne NE-NE				Section 31					RNG (E/W) 41W			Acres Attributed				
					Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan							
Completion Date 8/27/2007				Plug Back Total Depth 1589'				Packer S	et at							
					Internal Diameter 9-7/8", 6-1/4"			Set at 302', 1645'		Perforations 1454'		то 1496'				
Tubing Size Weight 2-3/8" 4.7#				Internal (1.995	Internal Diameter Set at 1.995				Perfo	То	-					
				• •	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes							
Producing Thru (Annulus / Tubing) Tubing				% (% Carbon Dioxide				% Nitrogen Gas			s Gravity - G _e				
Vertical D	epth(H	l)					ſ	ress	sure Taps				(Mete	r Run) (f	Prover) Size	
Pressure Well on L			Shut in 2/2 Started 3/1			11 at 1			(AM) (PM)				at			
													· · ·	26	. 5	
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Press psig (Pm)	Meter Di		Flowing Well H Temperature t		ead	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration of Shu Duration (Hours)	Liqu	Liquid Produced (Barrels)	
Shut-In					•				116	рыа	psig	psia			· · · · · · · · · · · · · · · · · · ·	
Flow						· · · · · ·										
Plate	 1	· · · · · · · ·	Circle one:			1	FLOW	STR	EAM ATTRI	IBUTES	Ī		1 :		Plantas	
Coefficcient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia			Cuti		avity To		emperature Factor	Deviation Factor F _{pv}		Metered Flov R (Mcfd)	v GÖI (Cubic I Barre	Feet/	Flowing Fluid Gravity G _m	
(P _c) ² =		_:	(P _∗)² :	:	:	(OPEN FL	OW) (DE	ELIVI	ERABILITY	CALCUL		:		$a_{d}^{2})^{2} = 0.3$	207	
(P _e) ² - (F or (P _e) ² - (F		(F	P _e) ² - (P _w) ²	1. 2.	P ₂ -P ₂ ² P ₂ -P ₃ ² by: P ₂ ² -P ₃ ²	LOG of formula 1. or 2. and divide by:	P _c ² - P,	2	Slop	ssure Curve be = "n" or signed ard Slope	n x l	.og []	Antilog	De	pen Flow liverability is R k Antilog (Mofd)	
Open Flor		aner	d authority o		lcfd @ 14.6		states th	at h	Deliverab e is dulv au		o make th		Mcfd @ 14.65 p		wledge of	
			in, and that s								day of D				20 <u>11</u>	
								_	_	C	Len	L J	Lun	<u>~</u>	ATCHIVE!	
			Witness					_	_			<i>U</i>	company	D	EO. 2 ^{?88} 20	
			For Comr	nission								Chec	cked by	KC	HOW T	

	ury under the laws of the state of Kansas that I am authorized to request -3-304 on behalf of the operator Noble Energy Inc
	formation and statements contained on this application form are true and
	and belief based upon available production summaries and lease records
•	on type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exe	emption from open flow testing for the Raile 41-31
gas well on the grounds that said w	· ·
(Check one)	
is a coalbed met	·
	nger lift due to water
	atural gas for injection into an oil reservoir undergoing ER
=	the present time; KCC approval Docket No.
✓ is not capable of	f producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the	best of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate th	nis claim for exemption from testing.
Date: 12/14/2011	
Jale. 1231472011	
	•
	Charles A. C.
	Signature: Keryl 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.

RECEIVED

DEC 2 8 2011