KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TOST	•				•	966 M3000	iona on nev	erse Sile	,					
	en Flow liverabll				Test Date	11				ło. 15 2 3-20752-0 ()-00			
Company Noble Er		nc					Lease Rueb Fa	arm			24-15	Vell Nun	nber	
County Cheyenne			Location SE-SW	ın	Section 15		TWP 3S		RNG (E/W) 42W		A	Acres Attributed		
Field Cherry Creek		• •		- · - · · - · · · · · ·	Reservoir Niobrara					Gas Gathering Connection Kinder Morgan				
Completic 1/22/200					Plug Bac 1588'	k Total Dept	h		Packer Se	et at				
Casing Size 7", 4-1/2"			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"			Set at 332', 1631'		Perforations 1456'		To 1492'		
Tubing Size 2-3/8"			Weight		Internal Diameter 1.995			Set at		Perforations		То		
Type Con Single ((De	escribe)		Type Flui Saltwa	d Production	1		Pump Uni Yes	t or Traveling	Plunger? Yes	/ No		
Producing Thru (Ar		(Anr	ulus / Tubing)	% C	arbon Dioxid	de	3		% Nitrogen		Gas Gravity - G _q		
Tubing Vertical D	epth(H))				Press	sure Taps				(Meter F	iun) (Pr	over) Size	
Pressure	Buildup	; ;	Shut in4/14	2	0 11 at 1	1:40	(AM) (PM)	Taken		20 .	at	(AM) (PM)	
Well on L	Well on Line:				44 0.20		$\overline{}$	$\overline{}$		20				
						OBSERVE	D SURFAC	E DATA			Ouration of Shut-i	45	Hours	
Static / Dynamic Property	Orific Siza (Inche		Cirde one: Meter Prover Pressui psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Casing Tubing		Duration (Hours)	Liquid Produced (Barrels)					
Shut-In							61							
Flow														
			- 			FLOW STR	EAM ATTR	IBUTES	-					
(F _b) (F	Coefficient		Circle one: Meter at ver Pressure psia	Press Extension	Extension Fac		or Temperature		riation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _a	
														
(P _e)² =		<u>.</u> ;	(Pູ)² ≃_	:	(OPEN FL P _a =	OW) (DELIV) CALCUI 2 - 14.4) -		<u></u> :	(P _a)	² = 0.2	07	
(P _q)²- (I or (P _q)²- (I	- 1	(P	(P _a) ² - (P _a) ²	Thoose formula 1 or 2 1. Pe ² - Pe ³ 2. Pe ² - Pe ² Wided by: Pe ³ - Pe	LOG of formula 1. or 2. and divide	P ₂ · P ₂	Sio As	ssure Curve pe = "n" - or signed lard Slope	1	og [Antilog	Del Equals	oen Flow iverability i R x Antilog (McId)	
-	-										- ,,		 	
Open Flo	w			Mcfd @ 14.	.65 psia	- · · · · · · · · · · · · · · · · · · ·	Deliverat	oility			Mcfd @ 14.65 ps	ia		
The	undersi	gned	d authority, or	behalf of the	Company,	states that h	ne is duly a	uthorized	to make th	e above repo	rt and that he ha	ıs knov	rledge of	
the facts s	stated th	erei		id report is tru			_	r CL	day of D	ecember	Enon	,	20 <u>11</u> .	
			Witness (if	any)		N 17 2				// For C	отрапу			
			For Commi	ssion	KCC	WICH	ΙΤΔ			Che	ked by			

	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
and that	t the foregoing pressure information and statements contained on this application form are true and
of equip	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. The production summaries and lease records are the production summaries and lease records are the production summaries. The production summaries and lease records are the production summaries and lease records are the production summaries and lease records.
	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
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing.
Date: <u>1</u>	2/27/2011
	Signature: Cley 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.

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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.