KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				1	See instruct	ions on Rev	rerse Side)					
	en Flo	W												
De	liverat	ilty			Test Date	9 :				No. 15 123-20768-01	n_nn			
Company Noble Energy Inc			Lease Rueb Farm			\rm	10-0		Well Number					
County	nergy		Location		Section		TWP		DNC /54		31-16			
Cheyenne			NW-NE	' 	16		38		RNG (E/W) 42W			Acres /	Attributed	
Field Cherry Creek				Reservoir Niobrara					Gas Gathering Connection Kinder Morgan					
Completion Date 8/27/2007					Plug Back Total Depth 1704'		h	Packer Set at		et at			·	
Casing Size 7", 4-1/2"			Weight 17#, 9.	 5#	Internal Diameter 9-7/8", 6-1/4"		Set at 302', 1745'		Perforations 1542'		To	то 1578'		
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at		Perforations		To			
Type Con	naletia	n /D/				d Production			D 11-	: - T IV	<u> </u>			
Single (gas)			AT tow 100 for all owns years and annual	Saltwa	iter			Yes	it or Traveling		/ No		
Producing Tubing	g Thru	(Anr	nulus / Tubing)		% C	Carbon Dioxid	de		% Nitroge	en	Gas G	ravity -	G,	
Vertical D	epth(F	1)	·····			Press	sure Taps	······································			(Meter	Run) (F	rover) Size	
Pressure	Buildu	D: :	Shut in 2/23	2	0 11 at 1	2:15	(AM) PM	Taken		20	at		(ANA) (DIA)	
Well on L	ine:	-	Started 2/24	2	0 11 at 3	:15	(AM) PM	Taken			at			
						OBSERVE	D SURFACI	E DATA	· · · · · · · · · · · · · · · · · · ·		Duration of Shut	-in 27	Hours	
Static / Orifice Dynamic Size		ice	Circle one:	Pressure	Flowing	Well Head	Mollhood Deseaure		Tubing Wellhead Pressure (P _m) or (P ₁) or (P ₀) psig psia			ï=	Liquid Produced (Barrels)	
			Meter Prover Pressure	Differential .	Temperature	Temperature					Duration (Hours)			
Property	(inches)		psig (Pm)	Inches H ₂ 0	t	t					(1.10013)			
Shut-In							148							
Flow			<u> </u>									-		
				· · · · · · · · · · · · · · · · · · ·		FLOW STR	EAM ATTR	BUTES	·					
Plate	,		Circle one:	Press	Grav	uitu	Flowing	5	.iabiaa	44-1			Flowing	
Coeffiecient (F _b) (F _p)		Meter or Prover Pressure		Extension	Fac	tor 1	emperature	L	iation Metered Flow actor R		GOP (Cubic F		t Fluid	
(⊏ _b) (⊏ Mctd			psia	✓ P _m xh	- F.	•	Factor F	1	F,,	(Mcfd)	Barre)	Gravity	
							·							
· · · · · · ·					(OPEN FL	OW) (DELIV	ERABILITY) CALCUI	_ATIONS		(P) ² = 0.	207	
(P _c) ² =		_:_	(P _w) ² =	:	P₀∍		% (F	e - 14.4) +	14.4 =	<u></u> :		,)== 0. ,)2 =	207	
45 V2 41	D 12			oose formula 1 or 2	1	<u> </u>	Backpre	ssure Curve	•	ГЪ		T	open Flow	
(P _e) ² - (I		(1-)*- (P_)*	1. P _a - P _a	LOG of formuta	1 1	•	n" = 90 -0110	_ n x t	_og	Antilog		ollverability	
(P _e) ² - (I	P ₄)²		d\	2. P ² P ²	1. or 2. and divide by:	P.2 - P.2	As	signed ard Stope			runing	Equa	ls R x Antilog (Mcfd)	
							<u> </u>		- 			 		
Open Flow			Mcfd © 14.65 psia Deliverability						Mcfd					
The	unders	igned	d authority, on	behalf of the	Сотрапу, я	states that h	e is duly a	uthorized	to make th	re above repo	rt and that he h	as kno	wledge of	
the facts s	tated t	herei	in, and that said	report is true	and correc	t. Executed	this the 2	7	gay of D	ecember	- · · · , · · · · · · · · · · · · · · · 		20 11	
						000-		11	" ~ !	9 11 -	6			
			Witness (If a	ny)		KECEIV	ED -		<u>ecys</u>	// For	company	<u> </u>		
			For Commiss	ion		AN 1- 7	2012	 .		Chac	sked by			

KCC WICHITA

exempt statu and that the correct to the of equipment I hereby	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc foregoing pressure information and statements contained on this application form are true and a best of my knowledge and belief based upon available production summaries and lease records t installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the Rueb Farm 31-16 the grounds that said well:
l further	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 agree to supply to the best of my ability any and all supporting documents deemed by Commission essary to corroborate this claim for exemption from testing.
Date: 12/27/	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.

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
JAN 1 7 2012
KCC WICHITA