RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flo	w	J				ions on Reve	erse Side	•				
De	liverab	ilty			Test Date);				No. 15 023-20797-0	0-00		
Company Noble Energy Inc				Lease Raile						21-31	Well Number		
County Cheyenne			Locatio NENW	Location NENW		Section 31		TWP 3S		RNG (E/W) 41W		Acres Attributed	
Field Cherry Creek					Reservoir Niobrara			Gas Gathering C Southern Star		•	ction		
Completion Date 10/9/2007					Plug Back Total Depth 1641'		h	Packer Set at		Set at .			
Casing Size 7", 4-1/2"			Weight 17#, 9.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 301', 1686'		Perforations 1484'		то 1539'		
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1570'		Perforations		То		
Type Con Single (n (Di	escribe)		Type Fluid Production Saltwater		1	Rod Pur			ng Plunger? (Yes) / No		
	g Thru	(Anı	nulus / Tubing)	% C	arbon Dioxid	de		% Nitrog	en	Gas Gra	avity - G _g	
Tubing Vertical D)anth(l	4)				Press	sure Taps			•	(Meter F	Run) (Prover) Size	
Vertical	ocpui(i	''				1 1030	oure raps				(Weter 1	1017 (1 10101) 0120	
Pressure	Buildu	•	Shut in1/28	2	0_13 at_3		(AM)(PM)	Taken		20	at	(AM) (PM)	
Well on L	ine:		Started 1/29	2	0 <u>13</u> at <u>3</u>	:45	(PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in <u>24</u> Hou	
Static / Dynamic Property	ynamic Size		Circle ane: Meter Prover Pressu: psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	e Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	<u></u>		poig (i iii)	mones 11 ₂ 0			psig 95	psia	psig	psia			
Flow									<u> </u>				
						FLOW STR	EAM ATTRII	BUTES			<u> </u>		
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Factor		Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m	
(P _c) ² =		:	(P_) ² =	:	•	OW) (DELIV	ERABILITY) % (P.		ATIONS 14.4 =	:	(P _a) ²	² = 0.207 ² =	
(P _c) ² - (l		(F	P _c) ² - (P _w) ²	1. P _c ² -P _a ² 2. P _c ² -P _a ²	LOG of formula 1. or 2. and divide		Backpres Slope Assi	sure Curve e = "n" origned rd Slope	, ,	Γ٦	Antilog	Open Flow Deliverability Equats R x Antilo (Mcfd)	
				thided by: $P_c^2 - P_w$	by:	<u> </u>	Starida	- Оюре					
Open Flow Mcfd @ 14.65 psia					Deliverabil	Deliverability Mcfd @ 14.65 psia							
		•	•				•			,	rt and that he ha	_	
the facts s	stated t	herei	in, and that sa	id report is true	e and correc	t. Executed	this the 27		day of	ecember		, ₂₀ <u>13</u>	
			Witness (if	any)						For C	MC(C WICHIT. C 3 1 2013	
			For Commi	ssion			_			Chec	ked by DE(2013 - 3 1 2013 - 3 1	

exempt status under and that the foregoin correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc ng pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records tion and/or upon type of completion or upon use being made of the gas well herein named. a one-year exemption from open flow testing for the Raile 21-31
is i	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER con vacuum at the present time; KCC approval Docket No anot capable of producing at a daily rate in excess of 250 mcf/D couply to the best of my ability any and all supporting documents deemed by Commission of corroborate this claim for exemption from testing.
Date: 12/27/2013	Signature: Completions Supervisor

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. **RECONSIST** signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013