KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instr	ucti	ons on Re	verse Sid	e)							
	en Flo liverab				Test Date	ə :						o. 15					
Company Noble Er	,							Lease Billinger		1;	5-18	31-20546-0	00-00	23-1	Well Nu	mber	
County Sherman			Locat	ion E-NE-NW	Section 1				TWP 6S)		Acres Attributed			
Field Prairie S	<u> </u>		011 01	- 112 1111	Reservoir Niobrara					40W Gas Gathering Cor Kinder Morgan			ection				
Completic		е			Plug Bac 1505'		epth	n	<u> </u>	Packer							
Casing Si 7", 4-1/2			Weig 17#,		Internal Diameter 9-7/8", 6-1/4"			Set a 381'	Perforations 1352'				то 1383'				
Tubing Si 2 3/8			Weigi 4.7#		Internal Diameter 1.995			Set a	Perforations				То				
Type Com Single (n (De			Type Flui Saltwa		tion		Pump Unit or T			or Traveling	eveling Plunger? Yes / No				
Producing	<u> </u>	(Anı	nulus / Tubin	g)	% C	Carbon Di	oxid	de		% Nitr	oger)		Gas G	ravity - 0	à	
Tubing Vertical D	epth(F	1)				Pr	ress	sure Taps						(Meter	Run) (Pa	rover) Size	
Pressure	Buildu	p:	Shut in 10	/23 2	0_13 _{at} 8	:00		(AM) (PM)	Taken			20	at		(AM) (PM)	
Well on L		•	Started 10		13 at 8							20			,	, , ,	
						OBSER	VEC	D SURFAC	E DATA				Duratio	n of Shut	-in_24	Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Press psig (Pm)		Flowing Temperature t	Weil Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Presso (P _w) or (P ₁) or (F		Pressure	Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			, ,	2				psig 87	psia	psig	J	psia					
Flow													·				
						FLOW S	TRI	EAM ATTR	IBUTES	•					<u> </u>		
Plate Coeffieci (F _b) (F Mcfd	ient ,	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m x h	Grav Fac F,	tor	Te	Flowing emperature Factor F _{ft}	F	viation actor F _{pv}		Metered Flov R (Mcfd)	v	GOR (Cubic Fo Barrel		Flowing Fluid Gravity G _m	
					(OPEN FL	OW) (DEI	LIVE	ERABILITY	CALCU	LATIONS	 s			4 D		07	
(P _c) ² =		<u> :</u>	(P _w) ² :	= <u> </u>	P _d =		%		_c - 14.4) ·			<u> </u>			$rac{1}{2} = 0.2$		
(P _c)² - (F or (P _c)² - (F	2 _a) ²	(F	P _c) ² - (P _w) ²	Choose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P.º - P.º		Slop As	ssure Curv pe = "n" - or signed ard Slope	n	x LO	G [A	ntilog	Del Equals	en Flow iverability R x Antilog [Mcfd]	
																-,	
Open Flor	l			Mcfd @ 14.	65 psia			Deliverat	ility				Mcfd @	14.65 ps	ia		
		-	-	on behalf of the				-				•	rt and t	hat he h		-	
the facts st	tated t	herei	in, and that s	ald report is true	e and correc	t. Execut	ted 1	this the 5		day of _	Dec	Sember		K		20 <u>13 </u>	
			Witness	(il any)			=	-				For C	Company			3 0 2013	
			For Com	mission			_	_				Chec	ked by			CEIVED	

l declare und	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the fore	going pressure information and statements contained on this application form are true and
correct to the bes	t of my knowledge and belief based upon available production summaries and lease records
	allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Billinger 23-1
	ounds that said well:
gas well on the gi	ourius triat 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
Ī	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	y to corroborate this claim for exemption from testing.
Date: 12/5/2013	
Date. 12/0/2010	
	Signature: Chery Johnson
	Signature: Cheryl Johnson Title: Completions Supervisor
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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 signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 0 2013