## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(	See Instruc	tions on Re	verse Side	<del>?</del> )					
Open Flo				Test Date	<b>::</b>				lo. 15				
Company						Lease		15-1	81-20545-0		Well Nun	nber	
Noble Energy						Billinge	<u> </u>			21-1			
County Sherman		ocation V-SE-N		Section 1		TWP 6S		RNG (E/V 40W	V)		Acres At	tributed	
Field Prairie Star				Reservoir Niobrara				Gas Gath Kinder M	ering Conne lorgan	ection			
Completion Dat 10/4/10	e			Plug Bac <b>14</b> 54'	k Total Dep	oth		Packer Se	t at				
Casing Size 7", 4-1/2"		Neight 7#, 9.5	 5#	Internal E 9-7/8",		Set a 385	at ', 1499'	Perfora		то 1353'			
Tubing Size 2 3/8		Neight .7#		Internal E 1.995	Diameter	Set a	at	Perfora	itions	То	•		
Type Completion Single (gas)	Type Completion (Describe)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes			? Yes / No	
Producing Thru	(Annulus /	Tubing)		% C	arbon Diox	ride		% Nitroge	n	Gas Gr	avity - G	,	
Tubing Vertical Depth(H)					Pressure Taps				(Meter Run) (Prover) Si			ver) Size	
Description Divides	Ch :-	10/23	3	. 13 ., 9	:30	/AM /DM	Takas		20	at		M) (DM)	
Pressure Buildu Well on Line:										at			
											24		
	Circ	e one:	Pressure	Florida	<u> </u>	ED SURFAC		Ти	bing	Duration of Shut-	in	Hours	
Static / Orifi Dynamic Siz Property (inch	e Prover	eter Pressure (Pm)	Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Wellhead (P <sub>w</sub> ) or (F		1	Pressure	Duration (Hours)	1 -	Liquid Produced (Barrels)	
Shut-In		<u></u>	2			44	psia	haiñ	рыа				
Flow													
					FLOW ST	REAM ATTR	IBUTES		•				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one Meter o Prover Pres psia	·	Press Extension P <sub>m</sub> xh	Grav Fac F	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	viation actor F <sub>pv</sub>	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
<u>.</u> !				(OPEN FL	OW) (DELI	VERABILITY	) CALCUL	ATIONS		(B.)	2 0.00		
(P <sub>c</sub> ) <sup>2</sup> =	_: (	P <sub>w</sub> )² =	;	•			•	+ 14.4 =	:		<sup>2</sup> = 0.20		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P <sub>e</sub> )²- (P,	)2	1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> ided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slo As	essure Curve pe = "n" - or signed lard Slope	l n x L	og [	Antilog	Deliv Equals	in Flow erability R x Antilog //cfd)	
					<u>.</u>	<u> </u>	<del></del>						
Open Flow			Mcfd @ 14.	65 psia		Deliveral	nility			Mcfd @ 14.65 ps	ja ia		
	ioned autho	rity. on		· · · · · · · · · · · · · · · · · · ·	states that		<del> ·</del>	to make the		rt and that he ha		edae of	
the facts stated t	_	-				=			=			13 .	
			·							K	CC W	/ICHIT	
	V	fitness (If a	ny)			-			For	Company		0 2013	
	F	or Commiss	sion		····	•			Ched	cked by		EIVED	

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to reques status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that correct to of equip	t the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records ment installation and/or upon type of completion or upon use being made of the gas well herein named reby request a one-year exemption from open flow testing for the Billinger 21-1
	(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
staff as	rther agree to supply to the best of my ability any and all supporting documents deemed by Commiss necessary to corroborate this claim for exemption from testing.
ale: <u>-</u> ا	Signature:

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