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

Type Test:			(	See Instruct	tions on Reve	erse Side	<del>)</del> )			
Open Flow Deliverabil			Test Date	<b>9</b> :				No. 15 0 <b>23-21197-0</b> 0	)-00	
Company Noble Energy I	nc			<u> </u>	Lease Keller Fa	rms			42-18	Well Number
County Cheyenne	•		Section 18		TWP 2S		RNG (E/W) 38W		Acres Attributed	
Field Cherry Creek			Reservoir Niobrara			-	Gas Gat Southe	hering Connec	ction	
Completion Date 1/20/2009			Plug Bac 1457'	k Total Dept	h		Packer S	Set at		
Casing Size 7", 4-1/2"	Weight 20#, 1	1.6	Internal Diameter 9-7/8", 6-1/4"		Set at 276', 1498'		Perforations 1310'		To 1346'	
Tubing Size 2-3/8"	Weight 4.7#		Internal Diameter 1.995		Set at 1374'		Perforations		То	
Type Completion (Describe) Single (gas)		Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes			/ No		
Producing Thru ( Tubing	(Annulus / Tubing)		% C	arbon Dioxi	de		% Nitrog	en	Gas Gra	avity - G <sub>g</sub>
Vertical Depth(H)				Press	sure Taps				(Meter F	Run) (Prover) Size
Pressure Buildup			11 at 1		(PM)	Taken		20 _	at	(AM) (PM)
Well on Line:	Started 1/15	20	11 at 7	:00	(AM) (PM)	Taken		20 _	at	(AM) (PM)
	Circle one:	1	<u></u> .	OBSERVE	D SURFACE		1 .	T	Ouration of Shut-	in 33 Hours
Static / Orific Dynamic Size Property (inche	Meter Prover Pressure	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casin Wellhead P (P <sub>w</sub> ) or (P <sub>c</sub> ) psig	ressure	Wellhe	fubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Shut-In					120					
Flow			·· ·-					<u> </u>		
			1	FLOW STR	EAM ATTRIE	BUTES		<del></del>	<del></del>	
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension √ P <sub>m</sub> x h	Grav Fact F <sub>g</sub>	tor T	Flowing emperature Factor F <sub>rt</sub>	Fa	iation ctor r pv	Metered Flow R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =	: (P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO		ERABILITY) % (P_	CALCUL - 14.4) +		:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>a</sub> ) <sup>2</sup>	2 = 0.207 2 =
$(P_a)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> dided by: P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>c</sub> <sup>2</sup>	Backpress Slope	sure Curve = "n" or gned	0.1	og [	Antilog	Open Flow Dellverability Equals R x Antilog (Mcfd)
Open Flow		Mcfd @ 14.6	i5 psia		Deliverabili	ity			lcfd <b>@</b> 14.65 psi	a
The undersid	ned authority, on	behalf of the t	Company s	tates that h	e is duly aut	horized to	n make th	e above report	and that he ha	s knowledge of
	erein, and that said							ovember	The that he has	, 20 <u>11</u> .
	Witness (if a	ny)			_	CL	ey	Force	mperry	-RECEIVED
	For Commiss	sion			<u></u>		<u> </u>	Checki	ed by	DEC 1 3 201

	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request attus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc					
and that th	he foregoing pressure information and statements contained on this application form are true and he best of my knowledge and belief based upon available production summaries and lease records					
	ent installation and/or upon type of completion or upon use being made of the gas well herein named.  by request a one-year exemption from open flow testing for the Keller Farms 42-18					
gas well or	n the grounds that said well:					
(Ched	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 ne	er agree to supply to the best of my ability any and all supporting documents deemed by Commissio cessary to corroborate this claim for exemption from testing.					
Date: 11/1	8/2011					
	Simply Charles 12 Line					

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 13 2011