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

Type Test	:					(See Ins	structions	on Rev	erse Side	<i>')</i>				
= :	Open Flow Deliverability				Test Da	Test Date: API No. 15 15-181-20389-00-00								
Company Noble Er	,					<del></del>		ease lelman	······································	15-	181-20389-	33-24	Well N	umber
County Location Sherman NW-SW-NW-SE				Section 24	Section 24			TWP 6S		(W)		Acres Attributed		
Field Goodland				Reservo Niobra					Gas Gathering Conne Kinder Morgan		nection	RECEIVIDEC 0.5		
Completion Date 1/10/2006				Plug Ba 1440'	ck Total	Depth	Packer Set at		<u>-</u>			DEC 05		
asing Size Weight ", 4-1/2" 17#, 10.5#				Internal Diameter 9-7/8", 6-1/4"			Set at 404', 1482'		rations 6'	то 1319'	KC	C WICH		
ubing Size Weight -3/8" 4.7#			Internal 1.995	Internal Diameter 1.995			Set at		rations	То		<u>- ' ' ' ' ( )                           </u>		
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No yes					
Producing Thru (Annulus / Tubing)  Fubing				%	% Carbon Dioxide				<u> </u>			Gas Gravity - G		
ertical D	epth(F	<del>1</del> )	***************************************				Pressure	Taps		<del></del>		(Meter	Run) (F	Prover) Size
Pressure Vell on L		•	Shut in 9/2 Started 9/2	•	20 12 at 2		(AN					) at		
													2/	
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Presso psig (Pm)	Pressure Differentia in Inches H <sub>a</sub>	Temperatur	Flowing Well He Temperature Tempera		wellhead Pres (P <sub>w</sub> ) or (P <sub>t</sub> ) or		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration of Shut-in		Hours id Produced (Barrels)
Shut-In			ros (i m) mones 11 <sub>2</sub>				52	psig 2	psia	psig	psia			
Flow														
	i			ī		FLOW	STREAM	ATTRI	BUTES					<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	Fa	avity ctor	Temp Fa	wing erature ctor	Fa	iation ictor <sub>pv</sub>	Metered Fid 뭐 (Mcfd)	ow GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G <sub>m</sub>
				<u> </u>			<u> </u>							
P <sub>c</sub> ) <sup>2</sup> =		<u></u> :	(P <sub>w</sub> ) <sup>2</sup> =	·:	(OPEN F		ELIVERA %		CALCUL - 14.4) +		:		) <sup>2</sup> = 0.1	207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$			P <sub>c</sub> ) <sup>2</sup> • (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 of 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ divided by: $P_c^2 - P_a^2$	1. P <sub>2</sub> - P <sub>2</sub> LOG of formula 1. or 2. 2. P <sub>2</sub> - P <sub>2</sub> 1. or 2. and divide		2 **	Backpressure Curve Stope = "n" or Assigned Standard Stope		n x LOG		Antilon D		Open Flow Hiverability Is R x Antilog (Mofd)
Open Flo	w			Mcfd @ 1	4.65 psia		 D	eliverab	ility			Mcfd @ 14.65 ps	 sia	
		-	•		, ,			-			·	ort and that he h		-
e facts s	tated t	herei	in, and that s	aid report is t	ue and corre	ct. Exec	cuted this	the _30	)	day of	vovember			20 12
	<del></del>	<del></del> .	Witness (	if any)	·			-			For	Company		
			For Comm	nission	<del></del>			_			Chi	ecked by		<del></del>

	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
and that the correct to the of equipmen	foregoing pressure information and statements contained on this application form are true and be 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 Helman 33-24
	he 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.
	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. The form must be signed and dated on the front side as though it was a verified report of annual test results.