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

Type Test:	:						(See In:	struct	ions on Re	verse Side	9)							
Open Flow Deliverabilty				Test Date:						API No. 15 15-181-20388-00-00								
Company Noble Er		nc						•	Lease P Helma	an					23-24	Well Nun	ber	-
County Location Sherman SW-SW-NE-SW					Section 24			TWP 6S			RNG (E/W) 40W			Acres Attributed			-	
Field Goodland					Reservoir Niobrara				Gas Gathering Kinder Morga		-				RECEIVED			
Completion Date 1/1/2006				Plug B: 1481'	ick Total	Dept	h		Packer Set at					DE	C 05	2012		
Casing Size Weight 7", 4-1/2" 17#, 10.5#				Internal Diameter 9-7/8", 6-1/4"			Set at 401', 1523'		Perforations 1342'				то 1362'	KC	WIC	HIT,		
Tubing Size Weight 2-3/8" 4.7#				Internal Diameter 1.995			Set at 1396'		Perforations				То					
Type Completion (Describe) Single (gas)				Type F	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No yes					-				
		(Anr	nulus / Tubing	3)		%	Carbon	Dioxi	de			Nitrogen		-	Gas Gr	avity - G	)	mat.
Vertical D	epth(H	)						Pres	sure Taps						(Meter F	Run) (Pro	ver) Size	~
Pressure			Shut in 9/20		2				(AM) (PM)									-
Well on L	ine:		Started		2	0 <u></u> at_			(PM)	Taken			20	at			M) (PM)	_
			Circle one:	-	Danasana		OBS	ERVE	D SURFAC		1	Todal		Duration	of Shut-	<sub>in24</sub> T	Hour	s T
Static / Dynamic Property	namic Size		Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperatu t	Well I re Tempe	rature	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		(	Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In		-				· · · · · · · · · · · · · · · · · · ·			63									
Flow																		
				T			FLOY	VSTF	EAM ATTE	RIBUTES								٦
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient p)	Circle one: Meter or Prover Pressure psia			Press Extension P <sub>m</sub> xh	l l	ravity actor F <sub>g</sub>	Flowing Temperature Factor F <sub>(t</sub>		F	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		GOR (Cubic Feel Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
				<u></u>		40050							<u></u>					ا
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =		:	•	=		ERABILITY % (i	P <sub>c</sub> - 14.4) -			:			$r^2 = 0.20$ $r^2 = $		
$(P_c)^2 - (P_s)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Cho	nose formula 1 or 2 1. $P_c^2 - P_e^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_w^2$	LOG formul 1. or 2 and divi	LOG of formula 1. or 2. and divide p 2 - p		Backpressure Slope =		re n x 1 C		.og [ ]		Antilog E		Open Flow Deliverability quals R x Antilog (Mcfd)	
																		_
						05			Deliveral	h:114				Marial @ :	14 65 00	1		
Open Flo			d authority, o	- h	Mcfd @ 14.	-	. atataa	that h	Deliveral	•	to m	aka tha		Mcfd @			edge of	-
		-	in, and that s											nt and th			12 12	
			Witness (	if an	iy)								For	Company				-
			For Comm	nissi	ion								Che	cked by				_

exempt status under and that the forego	or penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Incoming pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records
	llation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the Helman 23-24
	ounds that said well:
-	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  to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 11/30/2012	to corroborate this claim for exemption from testing.
	Signature: 72 Analyst  Title: Regulatory Analyst

## 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.