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

Type Test	:					0	See Instru	uctio	ons on Reve	arse Side	)						
_ :	en Flo liverab					Test Date	»:					No. 15 023-21203-0	0-00				
Company Noble E		Inc							Lease Berry					14-8	Well Nu	mber	
County Location Cheyenne SE-NE-SW-SW				Section 8	=			TWP 2S		RNG (E/W) 38W			Acres Attrib				
Field Cherry Creek Niobrara Gas Area						Reservoir Niobrara				Gas Gathering Connection Southern Star					<del> </del>		
Completion Date 1/7/2009					Plug Bac 1443	Plug Back Total Depth 1443				Packer Set at							
Casing Size Weight 7", 4 1/2" 17#, 10.5#				Internal Diameter 9 7/8", 6 1/4"			Set at 256, 1483'		Perfo 129	rations 6		т <sub>о</sub> 1340					
Tubing Size Weight n/a				Internal E	Internal Diameter Set at				Perfo	rations		То					
Type Con single (		n (Di	escribe)			Type Flui		ion		•	Pump Ui	nit or Traveling	Plunger?	Yes	/ No		
Producing Thru (Annulus / Tubing) Annulus				% C	% Carbon Dioxide				% Nitrogen Gas				Gravity - G				
Vertical C		1)					Pr	ess	ure Taps					(Meter F	Run) (Pr	over) Size	
Pressure	Buildu	<b>p</b> :	Shut in 3/2	24	2	0_11_at_9	:00	(	(AM) (PM)	Taken		20	at		(	AM) (PM)	
Well on Line: Started 3/25			2	11 0:20				Taken		at _	_ at (AM) (PI		AM) (PM)				
							OBSER	VED	SURFACE	DATA			Duration	of Shut-i	24.	5 Hours	
Static / Dynamic Property			Circle one:  Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H <sub>*</sub> 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure $(P_w) \bowtie (P_1) \bowtie (P_0)$ psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In									110	poru	poly	po.u					
Flow																	
	1			_		1	FLOW S	TRE	AM ATTRI	BUTES			1				
Plate Coeffiecient (F <sub>5</sub> ) (F <sub>p</sub> ) Mcfd		Girde one: Meter or Prover Pressure psia			Press Extension P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>11</sub>		Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>4</sub>	
				<u>l</u>	<u>.</u>	(0.75)	2000 (2001				4710110						
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>*</sub> )² :	=	:	P <sub>d</sub> =		.ive _%	RABILITY) (P <sub>e</sub>	- 14.4) +		:		(P <sub>a</sub> ) <sup>2</sup> (P <sub>a</sub> )	2 = 0.2 2 =	07 	
$(P_{e})^{2} - (P_{a})^{2}$ or $(P_{e})^{2} - (P_{d})^{2}$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> · P <sub>c</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup>		LOG of formula 1. or 2. and divide	P <sub>2</sub> -P <sub>2</sub>		Slope Assi	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
					• •												
Open Flor	<u> </u>				Mcfd @ 14.	 65 psia			Deliverabil	ity			Mcfd @ 1	4.65 psi	L a		
The	unders	_	d authority, o		ehalf of the	Company, s			is duly aut	horized to		ne above repo		•	s know	edge of 11	
			Witness	(if any	y)				يهاد	<u>, , , , , , , , , , , , , , , , , , , </u>		ForC	отпралу	<u>- // -</u>		2 <u>2</u> 2	
			For Com	missio	on			•			-	Chec	ked by		•		

	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that	he foregoing pressure information and statements contained on this application form are true and
correct to	the 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.
l her	by request a one-year exemption from open flow testing for the Berry 14-8
gas well	on the grounds 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  ter agree to supply to the best of my ability any and all supporting documents deemed by Commission eccessary to corroborate this claim for exemption from testing.
Date: <u>1</u> 1	4/2011
	Signature: <u>Regulatory Analyst II</u>

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.

DEC 0 2 2011