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

Type Test:	:				6	See Ins	tructio	ons on Re	verse Side	<del>)</del> )							
Open Flow				Test Date: API No. 15													
Del	iverabilty	•			lest Date	·•						·21276-(	00-00				
Company Noble Er		c						Lease Duell Tr	usts					33-33	Well Nu	imber	
County Location Cheyenne NW-SE-NW-Se				Section 33			TWP 5S	RNG (E/W) 39W				Acres Attributed					
Field					Reservoir							g Conn					
Cherry Creek Completion Date				Niobrara Plug Back Total Depth					Southern Star/Kinder Morgan Packer Set at					···			
4/19/201					1506'	K IOTAI I	Depin			Packer	Set a	τ					
Casing Size Weight 7", 4 1/2" 17#, 11.6#				Internal Diameter 9 7/8", 6 1/4"			Set 8 403'	Perforations 1330'				то 1359'					
ubing Size Weight 2.3/8" 4.7#				Internal Diameter 1.995			Set a 140	Perforations				То					
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater					Pump Unit or Traveling Plunger? Yes / No yes								
Producing Thru (Annulus / Tubing)			% Carbon Dioxide									Gas Gr	s Gravity - G <sub>g</sub>				
Tubing																	
Vertical D	epth(H)					F	Pressi	ure Taps						(Meter I	Run) (P	rover) Size	
Pressure	Buildup:	Shut in	/11	20	13 at 8	:30`	(	(AM) (PM)	Taken			20	;	at		(AM) (PM)	
Well on Line: Started 11/12 20				13 at 8	(	AM) (PM)	Taken	20				at (AM) (PM)					
						OBSE	RVED	SURFAC	E DATA				Durat	ion of Shut-	24	Hours	
Static /	Orifice	Orifice Circle one		Pressure	Flowing	Well Head		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration		Lieu	Liquid Produced		
Dynamic Property	Size (inches	Prover Pres	- 1	1	Temperature t	Temperati t	ature	$(P_w)$ or $(P_t)$ or $(P_c)$		1	ead Pressure or (P <sub>t</sub> ) or (P <sub>c</sub> )		(Hours)			(Barrels)	
	(11101100	psig (Pm	) .	Inches H <sub>2</sub> 0	•			psig	psia	psig	-	psia			-		
Shut-In								52		ļ	_						
Flow															1.		
		<u></u>			1	FLOW	STRE	AM ATTR	IBUTES							T	
(, p) (, b)		Circle one: Meter or Prover Pressure		Press Extension	Gravity		То	Temperature		viation Metered Flov		1			Flowing Fluid		
				✓ P <sub>m</sub> xh	Fac	or		Factor	1	actor R = (Mcfd)		(Cubic Fee Barrel)			Gravity		
Mcfd		psia	+	m				F <sub>it</sub>		- pv	-		+			G <sub>m</sub>	
	<u> </u>		$\perp$				<u> </u>				<u> </u>						
P )2 =		: (P <sub>w</sub> )²	=	:	(OPEN FL	OW) (DI	ELIVE		') CALCUI P <sub>c</sub> - 14.4) -			:			3 <sup>2</sup> = 0.2 1 <sup>2</sup> =	207	
		· · · · · · · · · · · · · · · · · · ·	Cho	ose formula 1 or 2:	·		$\overline{\neg}$		essure Curv			<del>г 1</del>				pen Flow	
(P <sub>c</sub> ) <sub>s</sub> - (I	P_)2	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> · P <sub>e</sub>	LOG of formula				Slope = "n" or		LOG	og		Antilog	Deliverability		
or (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> ded by: P <sub>c</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup>	1, or 2. and divide p2_p by: p2_p		2 W	1 4				:		Equals R x Antilog (Mcfd)			
			0,771	000 0): ' c ' w	1	<u> </u>	=-								<del> </del>		
	-		_														
Open Flo	l_ w		!	Mcfd @ 14.	65 psia			Deliverat	oility				Mcfd	@ 14.65 ps	ia		
		ned authority,	on b			states th	nat he			to make	the a	bove repo				vledge of	
he facts s	tated the	rein, and that	said	report is true	and correc	at. Exec	uted	this the _1	6	day of _	Dece	mber				20 13	
	**-*		-	• •									_		KC	<b>20</b> 13 C WICH	
		Witnes	s (if an	ny)			_	-				For	Company	,	ם	EC 3 1 20	
		For Cor	nmissi	on			_	-				Che	cked by			RECEIV	

exempt status under and that the foregoin correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc  ng pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records tion and/or upon type of completion or upon use being made of the gas well herein named.  a one-year exemption from open flow testing for the Duell Trusts 33-33
gas well on the grou	nds that said well:
is is I further agree to	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commission of corroborate this claim for exemption from testing.
Date: _12/16/2013	· · · · · · · · · · · · · · · · · · ·
	Signature: Completions Supervisor

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

DEC 3 1 2013 RECEIVED