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

71

Deliverability   Test Date:   AP I No. 15	Type Test					(	See Instruct	ions on Reve	erse Side	)			
Scale   Section   Section   Type   RNG (EW)   Acres Attributed   Acr	Deliverabilty				Test Date	Test Date:							
Location   SE-NE-SW-SW   Section   TWP   FING (EW)   Acres Attributed   Acres Attribute	Company Noble Energy Inc									· · · · · · · · · · · · · · · · · · ·	14-5	Well Number	
Reservoir   Reservoir   Sas Gastering Connection   Conn	County Location						TWP					Acres Attributed	
1589   1589	Field				Reservoi		(		-				
### 1.02** 234, 11.6# 9-7/6", 6-1/4" 221, 1632* 1422* 1472*  Uniting Sizze Weight Internal Diameter Set at Performance To Type Competition (Describe)  Type Fluid Production  Type Flui	<del></del>				-	k Total Dept	h	Packer Set at		Set at			
Tubing Size A.7# 1.995  Type Fluid Production Yes Rod Fump	Casing Si 7", 4-1/2												-
Type Fluid Production Saltwater Yes Roa Tump  Type Fluid Production Yes Roa Tump  Tradicing True (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G,  Tubing  Tubing  Tubing  Tubing  Tubing  Tersion Epidemion Shut in 2/13 20 13 at 9:30 (Meter Run) (Prover) Size  Tressure Buildup: Shut in 2/13 20 13 at 9:30 (Meter Run) (Prover) Size  Tressure Buildup: Shut in 2/14 20 13 at 9:30 (Meter Run) (Prover) Size  Total Static / Ordice Size Prover Pressure Differential Temperature	Tubing Si		Weight			Internal Diameter						То	
Pressure Buildup: Shut in 2/13 20 13 at 9:30 MM (PM) Taken 20 at (AM) (PM)  Well on Line: Started 2/14 20 13 at 9:30 MM (PM) Taken 20 at (AM) (PM)  Well on Line: Started 2/14 20 13 at 9:30 MM (PM) Taken 20 at (AM) (PM)  Static / Orifice Original Meter Proper Pressure (Inches) Pressure (Inches) Proper Pressure (Inches) Pressure (Inche	Type Completion (Describe)				Type Flui		n			Init or Traveling	Plunger? (Yes	/ No	
Pressure Buildup: Shut in   2/13   20   13   2/30   20   13   2/30   20   20   3   2/30   20   20   3   2/30   2/30	Producing Thru (Annulus / Tubing)											ravity - G <sub>g</sub>	
Started   2/14   20   13   at   9:30   (PM)   Taken   20   at   (AM) (PM)		epth(H)				•	Pres	sure Taps				(Meter	Run) (Prover) Size
Started   2/14   20   13   at   9:30   (PM)   Taken   20   at   (AM) (PM)	Proceure	Buildus	Shut in	2/13		ຸ 13 ຼຸ 9	:30	AMD/DMA	Taken		20	pt .	(AM) (DM)
Static   Orifice   Orifi			Started	2/14	2			$\simeq$					
Static / Orifice Dynamic State (P <sub>2</sub> ) - (P <sub>3</sub> )? = (P <sub>2</sub> )? - (P <sub>3</sub> )? = (P <sub>3</sub> )? - (P <sub>3</sub> )							OBSERVE	D SURFACE	DATA			Duration of Shut	-in_24 Hours
Shut-In   Tellow	Static / Dynamic Property	Size	Mete	Meter Prover Pressure		Flowing Well Head Temperature		Casing Wellhead Pressure		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration	Liquid Produced
FLOW STREAM ATTRIBUTES  Plate Coefficient (F <sub>2</sub> )(F <sub>3</sub> ) Moter or Prover Pressure psia (P <sub>2</sub> ) <sup>2</sup> = (P <sub>2</sub> ) <sup>2</sup> = (P <sub>2</sub> ) <sup>2</sup> = (P <sub>2</sub> ) <sup>2</sup> - (P <sub>3</sub> ) <sup>2</sup> = (P <sub>2</sub> ) <sup>2</sup> - (P <sub>3</sub> ) <sup>2</sup> = (P <sub>2</sub> ) <sup>2</sup> - P <sub>3</sub> = (P <sub>2</sub> ) <sup>2</sup> - P <sub>3</sub> = (P <sub>2</sub> ) <sup>3</sup> - P <sub>3</sub> = (P <sub>3</sub> ) <sup>3</sup> - P <sub>3</sub>	Shut-In		psig (F	1117	inches n <sub>2</sub> 0				psia	psig	psia		
Plate Coefficient Meter or Prover Pressure Press Pressure	Flow						<u>.</u>						
Coefficient (F <sub>x</sub> )(F <sub>x</sub> ) Mcfd Prover Pressure psia P <sub>x</sub> Xh							FLOW STR	EAM ATTRIE	BUTES				
P <sub>c</sub> ) <sup>2</sup> =	Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> )		Meter or Prover Pressure		Extension Fa		tor	Temperature Factor		Factor R		(Cubic Fe	et/ Fluid Gravity
P <sub>c</sub> ) <sup>2</sup> =									<u> </u>				
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup> by:  Deen Flow  Mcfd @ 14.65 psia  Deliverability  The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the	(P <sub>c</sub> ) <sup>2</sup> =		; (P <sub>*</sub>	)² =	<u> </u>	•	• •	•					
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 26 day of December , 20 13.  Witness (if any)	• • 1		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> P <sub>a</sub> <sup>2</sup> LOG of formut 2. P <sub>c</sub> <sup>2</sup> P <sub>d</sub> <sup>2</sup> 1. or 2 and division		P.2-P.2	Slope = "n" or Assigned		l n x	rog	Antilog	Deliverability Equals R x Antilog
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witness (if any)  December , 20 13  Witness (if any)	Open Flor	W			Mcfd @ 14.	65 psia		Deliverabil	lity			Mcfd @ 14.65 ps	ia
Witness (if any) For Company KCC WI						• •		•			•	ort and that he ha	_
	ne tacts si	ated the	erein, and tha	at said	report is true	e and correc	i. Executed	this the _20	<del></del>	day of			, 20
For Commission Checked by NEC 21			Witne	ess (if a	ny)			_			For	Company	KCC WI
			For C	ommiss	ion			_			Che	cked by	DEC 31

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	the foregoing pressure information and statements contained on this application form are true and
	o the best of my knowledge and belief based upon available production summaries and lease records
of equipr	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
l her	reby request a one-year exemption from open flow testing for the Wiese 14-5
gas well	on the grounds that said well:
	(Check one)
	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
	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as r	necessary to corroborate this claim for exemption from testing.
Date: <u>12</u>	2/26/2013
	Signature:
	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.