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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flow				(See Instruct	tions on Reve	erse Side	e)					
Deliverabilty					Test Date	Test Date:				API No. 15 15-023-20967-00-00				
Company Noble Energy Inc						Lease Zimbelma	Lease Zimbelman			Well Number 11-31				
County Location Cheyenne E2-NE-NW-NW				Section 31		TWP 3S		RNG (E/W) 41W		Acres Attributed		Attributed		
Field Cherry Creek				Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan						
Completion Date 3/13/2008				Plug Bac 1690'	k Total Dept	h	Packer S		Set at					
Casing Size Weight 7, 4-1/2" 17#, 10.5#).5#	Internal [9-7/8",		Set at 324', 1733'		Perforations 1495'		то 1536'			
Tubing Size Weight 2-3/8" 4.7#				Internal (1.995	Diameter	Set at 1573'		Perforations		То				
Type Completion (Describe) Single (gas)					d Production			Pump Unit or Traveling Plunger? Yes			/es / No			
Producing Thru (Annulus / Tubing) Tubing				% C	arbon Dioxi	de	е		jen	Gas Gravity - G				
Vertical Depth(H)					Pres	sure Taps				(Meter	Run) (F	Prover) Size		
Pressure	Buildup:	Shut	in _2/6	2	0_13_at_1	2:15 PM	(AM) (PM) 1	Taken		20 .	at		(AM) (PM)	
Well on Line: Started 2/7 20				0 at	:50 PM	(AM) (PM)	AM) (PM) Taken			at		(AM) (PM)		
						OBSERVE	D SURFACE				Duration of Shut	. _{in_} 26	.5 Hours	
Static / Dynamic Property	Orifice Size (inches	Prov	Circle one: Meter rer Pressure	1	Flowing Wett Head Temperature		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	•		osig (Pm)	Inches H₂0			130	psia	psig	psia				
Flow			, ,											
						FLOW STR	EAM ATTRI	BUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		**		vity 1	Flowing Temperature Factor F _{f1}		eviation Metered Flow Factor R F _{pv} (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =		:	(P _w) ² =	:	(OPEN FL		ERABILITY) % (P	CALCUL - 14.4) +		:	(P _a) (P _d)) ² = 0.2) ² =	207	
ог	$(P_c)^2 - (P_s)^2$ or $(P_c)^2 + (P_d)^2$		(P _w) ²	oose tormula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2, and divide by: LOG of pr2-p2 c p2-p2		Backpressure Curv Slope = "n" or Assigned Standard Slope		n x	og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
					-	· · · ·						ļ		
Onen tile				Marid @ 14	65 pois		Delivershi	litu			Mefd @ 14 65	ria.		
Open Flor			· · · · · · · · · · · · · · · · · · ·	Mcfd @ 14	.	-1-1	Deliverabil	-			Mcfd @ 14.65 ps			
	•		•				ie is duly aut I this the 12			he above repoi December	rt and that he ha		wledge of	
		•		•					-					
<u></u>			Witness (if a	ny)						For C	отралу	ŀ	(CC W IC	
			For Commiss	sion			_			Chec	ked by		DEC 3 0 2	

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt s	status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that	the 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
	ment installation and/or upon type of completion or upon use being made of the gas well herein named. eby request a one-year exemption from open flow testing for the Zimbelman 11-31
	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
l fur	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as ı	necessary to corroborate this claim for exemption from testing.
Date: _12	2/12/2013
	Signature: The miles
	Signature, 1807.000

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.

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