KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:			(See Instruct	tions on Re	verse Side	»)					
Open Flow Deliverabilty				Test Date:				API No. 15 15-023-20967-00-00					
Company Noble Energy Inc					Lease Zimbelman			Well Number				nber	
County Cheyen	ne	Locat E2-NE	ion -NW-NW	Section 31		TWP 3S		RNG (E/W) 41W		Acres Attributed		tributed	
Field Cherry (Creek			Reservoi Niobrara		·	· ·		ering Conne n Star/Kind				
Completi 3/13/200		-		Plug Bac 1690'	k Total Dept	th		Packer S	et at				
Casing S 7, 4-1/2		Weigi 17#,	nt 10.5#	Internal Diameter 9-7/8", 6-1/4"		Set at 324', 1733'		Perforations 1495'		то 1536'			
Tubing S 2-3/8"	iize	Weigh 4.7#	nt	Internal Diameter 1.995		Set at 1573'		Perforations		То			
Type Cor Single ((Describe)			d Production			Pump Un Yes	it or Traveling	Plunger? Yes	/ No	<u>_</u>	
		Annulus / Tubin	g)	% C	Carbon Dioxi	ide	е		en	Gas Gravity - G			
Vertical Depth(H)			Pressure 1			sure Taps					(Meter Run) (Prover) Size		
Pressure	Buildup	: Shut in	82	0 11 at 3	:25	(AM) (PM)	Taken		20	at			
Well on Line:		Started 3/1	Started 3/1 20		11 at 3:25		(AM) (PM) Taken _		20	at	at (AM)		
					•	D SURFAC		·		Duration of Shut-	24	——————————————————————————————————————	
Statle / Orifice Dynamic Size Property (inches)		Meter Prover Press	Pressure Oilferential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	mperature (P_w) or (P_t) or (P_t)		Tubing Wellhead Pressure (P_) or (P,) or (P,)		Duration (Hours)	,,		
Shut-In	 	- pag ()	menes 1130			169	psia	giao	psia		 		
Flow													
					FLOW STR	REAM ATTE	BUTES						
Plate Coeffiecient (F _a) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Mater or Extension		rity tor	Temperature Fa		viation Metered Flow actor R F _{pv} (Mctd)		w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G ₄	
	<u> </u>	·		45550.50					<u> </u>				
(P _e)² =	·	: (P _w) ² =	·:	(OPEN FL	OW) (DELIV		/) CALCUI P _a - 14.4) -		:	(P _a) (P _d)	² = 0.20	07	
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		$ \{P_{q}\}^{2} - \{P_{w}\}^{2} $ Choose formula 1 or 2: $ 1. P_{q}^{2} - P_{q}^{2} $ $ 2. P_{q}^{2} - P_{q}^{2} $ $ divided by: P_{q}^{2} - P_{q}^{2} $		LOG of formula 1. or 2. and divide p 2. p 2		Backpressure Curve Slope = "n" 		n x 106		Antilog	Deli Equals	en Flow verability R × Antilog Mcfd)	
				 	······································	<u> </u>							
Open Flo)w	<u> </u>	Mcfd @ 14.	65 osia		Deliveral	nility		·	Mcfd @ 14.65 ps	<u> </u>	<u></u>	
		ned authority, o			states that h			to make th		ort and that he ha	-	ledge of	
		erein, and that s							ecember	7		20 11	
		\$\$\$\$a 1	it anut	RE	CEIVE	D	CL	euf	1/6	Lusor	<u>~</u>		
		Witness (JAI	<u>N 1 7 2</u> (012			0	Company			
				KCC	WICH	ITA			, na				

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc going pressure information and statements contained on this application form are true and to f my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Lest a one-year exemption from open flow testing for the Zimbelman 11-31
gas well on the gr	ounds that said well:
(Check	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
	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 12/28/2011	
	Signature: Clay book Title: Regulatory Analyst II

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.

RECEIVED
JAN 1 7 2012