KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:			(See Instruct	ions on Rev	erse Side)			
Open Flow			Test Date: API No. 15								
	liverabi	Ity 						15-	023-21005-0		-
Company Noble Energy Inc			Lease Zweygardt					Well Number 22-6			
County Location Cheyenne NE-NE-SE-NW				Section 6		TWP 4S		RNG (E/W) 41W		Acres Attributed	
Field Cherry (Creek			Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinde			
Completion Date 4/14/2008)	Plug Back Total De 1682'			Packer Set at		Set at			
Casing Size 7", 4-1/2"			Weight 17#, 11.6#		Internal Diameter 9-7/8", 6-1/4"		Set at 254', 1725'		rations 5'	то 1518'	
Tubing Size Weigh 2-3/8" 4.7#			nt	Internal Diamete 1.995		Set at 1533'		Perforations		То	
Type Completion (Describe) Single (gas)			Type Fluid Production Saltwater				Pump Unit or Traveling P Yes		Plunger? Yes / No		
Producin Tubing	g Thru	(Annulus / Tubin	g)	% C	Carbon Dioxi	de		% Nitro	gen	Gas Gra	avity - G _g
Vertical I	Depth(H)			Pres	sure Taps				(Meter F	lun) (Prover) Size
Pressure	Buildup			0 11 at 1		(AM) PM	Taken		20	at	(AM) (PM)
Well on L	_ine:	Started 9/7	2	0 11 at 2	:00	(AM) PM	Taken		20	at	(AM) (PM)
•					OBSERVE	D SURFACE	E DATA			Duration of Shut-	n 26 Hours
Static / Dynamic Property	Dynamic Size		Pressure Differential in Inches H ₂ 0	Temperature Temperatur		(P _w) or (P ₁) or (P ₀)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
Shut-In		psig (Pm)	110105 1720			140	psia	psig	psia		:
Flow										· 	
		Circle ons:		1	FLOW STR	EAM ATTR	BUTES		ĺ	:	
Plate Coeffiecient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia	Meter or Extension		vity tor	Flowing Femperature Factor Fit Fit Formula F		ctor	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m
							1				
(P _c) ² =		_: (P _w)² =		(OPEN FL	OW) (DELIV و	•	CALCUL - 14.4) +		:	(P _a); (P _d);	= 0.207
(P _e) ² - (or (P _e) ² - (-	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _d ² divided by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² - P _u ²	Backpres Slop Ass	ssure Curve ne = "n" or signed and Slope	, n x	LOG [Antilog	Open Flow Deliverability Equals R x Antilog (Mold)
						<u> </u>					į.
Open Flow Mcfd @ 14.65 psia						Deliverability Mcfd @ 14.65 psia					
		•		, ,		_			•	rt and that he ha	-
the facts s	stated th	erein, and that s	aid report is true	e and correc	t. Executed	this the 6	0	day, of L. L.O	December		20 <u>.11</u> . RECEIVED
		Witness	it any)						/ for C	Company	EC 0 6 004
		For Comr	nission			_			Chec	ked by	EC 2 8 2011

KCC WICHITA

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the foregone correct to the best of equipment instance. I hereby reque	oing pressure information and statements contained on this application form are true and of 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. Sest a one-year exemption from open flow testing for the Zweygardt 22-6 bounds 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 et to supply to the best of my ability any and all supporting documents deemed by Commission of to corroborate this claim for exemption from testing.
Date: <u>12/8/2011</u>	Signature:

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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DEC 2 8 2011