KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instruc	ctions on Re	everse Side)					
Open Flow			Test Date: API No. 15										
De	liverabilty								023-20799-	00-00			
Company Noble Energy Inc					Lease Zweygardt				12-5			Well Number	
County Location Cheyenne SW-NW			Section 5		TWP 4S		RNG (E/W) 41W		Acres Attributed		Attributed		
Field Cherry Creek				Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan						
Completion Date 10/5/2007				Plug Bac 1624'	Plug Back Total Depth 1624'			Packer \$	Set at				
Casing Size Weight 7", 4-1/2" 17#, 9.5#			Internal I 9-7/8",		Set at 245', 1610'		Perforations 1396'		To 1434'				
Tubing Si 2-3/8"		Weigl 4.7#		Internal Diameter 1.995		Set at 1465'		Perforations		То			
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump U	nit or Traveling	g Plunger? Yes	/ No		
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitrog	gen	Gas Gr	Gas Gravity - G		
Tubing Vertical Depth(H)					Pressure Taps				(Meter Run) (Prover) Size				
Pressure	Buildup:	Shut in 10	/28	13 at 4	:15		Taken			at		(AM) (PM)	
Well on L		Started 10/	rted 10/29 20		13 at 4:30		(AM) (PM) Taken		20	at		(AM) (PM)	
						ED SURFAC				Duration of Shut-			
Static / Dynamic Property	Orifice Size (înches)	Circle one: Meter Prover Press psig (Pm)		Flowing Temperature t	Well Head Temperature t	e Wellhead (P _w) or (I	sing I Pressure P ₁) or (P _c)	Weilhe (P _w) o	Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liqui	Liquid Produced (Barrels)	
Shut-In		paig (r iii)	micros 11 ₂ 0			119	psia	psig	psia		+		
Flow													
			_		FLOW ST	REAM ATTR	RIBUTES					,	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or rover Pressure psia	Press Extension	Gra Fac F	tor	Temperature Fa		riation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
			<u> </u>				<u> </u>						
P _c)² ==	:	(P _w)² =	= ;	(OPEN FL		VERABILITY % (I	/) CALCUL P _c - 14.4) +		:) ² = 0.2	207	
$(P_e)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$ (P_c)^2 - (P_u)^2 $ Choose formula 1 1. $P_c^2 - P_c$ 2. $P_c^2 - P_c$ divided by: P_c^2		LOG of formula 1. or 2. and divide P 2. P		Backpressure Cur Slope = "n"		e n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flor	w		Mcfd @ 14	.65 psia		Deliveral	bility			Mcfd @ 14.65 ps	ia		
The c	undersigne	ed authority, o	on behalf of the	Company,	states that	he is duly a	uthorized to	make th	ne above repo	ort and that he ha	as know	vledge of	
ne facts s	tated there	ein, and that s	aid report is tru	e and correc	t. Execute	d this the 1	3	day of _C	ecember		,	20	
		Witness	(it any)			-			For	Company	_K(C WIC	
		For Comi								ecked by	n	EC 30 2	
		. 5. 50111							Olig		J		
												RECEIV	

exempt status un and that the fore	der 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 st of my knowledge and belief based upon available production summaries and lease records
of equipment ins	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 Zweygardt 12-5
	rounds that said well:
∫ V I further agre	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 se to supply to the best of my ability any and all supporting documents deemed by Commission my to corroborate this claim for exemption from testing.
	Signature: Xwhu milly 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.

KCC WICHITA

DEC 3 0 2013

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