INIVANO CONFORCION COMPINANTA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				((See Instruc	ctions on Re	verse Side	e)						
	en Flov liverab				Test Date	e:				No. 15 -023-2106	0-00-00)			
Company Noble Energy, Inc.					Lease Zweygardt							Well Number 43-33			
County Cheyenne			Location NW-N	n N-NE-SE	Section 33		TWP 3S			RNG (E/W) 41W		Acres Attribute		ributed	
Field Cherry	Cree	k N	iobrara ga	s area	Reservoi Niobra					hering Conn r Morgan v		pe Co	mpress	or	
Completion Date 7/30/2008				Plug Back Total Depth 1563'				Packer Set at n/a							
Casing Size 7", 4-1/2"			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"			Set at 255' , 1605'		rations 1	1371'		1408'		
Tubing Size Weight n/a				Internal (Diameter	Set a	Set at Perfo		rations		То		ZIII		
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Ur	nit or Traveling	Plunger?	Yes	/ No			
Producing Annulus	-	(Anr	nulus / Tubing)	% C	Carbon Diox	ide		% Nitrog			Gas Gra	avity - G	M	
Vertical D	epth(H)				Pres	ssure Taps					(Meter F	Run) (Prov	er) Size	
Pressure	Buildur		8/4/	2	08 at		(AM) (PM)	Taken		20	at _		(AN	и) (PM)	
Well on L	ine:	,	Started 8/11	<u>/</u> 2	0 08 at 1	:08	(AM)(PM)	Taken		20	at _		(AN	/I) (PM)	
						OBSERVE	ED SURFACI	E DATA			Duration	of Shut-i	n	Hours	
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Temperature Tempera		Wellhead Pressure		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psla		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In							238		polg	75.0					
Flow			11000												
						FLOW STE	REAM ATTR	IBUTES						····	
Plate Coeffieci (F _b) (F _b Mcfd	ient ,,)		Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m x h	Grav Fact F _c	tor	Flowing Temperature Factor F,,	Fa	riation actor _{pv}	Metered Flov R (Mcfd)	,	GOR Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
					(OPEN FLO	OW) (DELIV	/ERABILITY)	CALCUL	ATIONS			(P)2	= 0.207		
(P _c) ² =		_:	(P _w) ² =_	:	P _a =		% (F	' _o - 14.4) +	14.4 =	<u> </u>		(P _d) ²			
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P	_c) ² - (P _w) ²	thoose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ (vided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpres Slope Pc2-Pg2 Ass Standa		nxi	.og [Antilo	Antilog I		Open Flow Deliverability Equals R x Antilog (Mcfd)	
		-													
Open Flov	N			Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 1	4.65 psia	ì		
				behalf of the			ſ	141C	o make the	Tepro	rt and tha	t he has	knowled	ge of	
			For Commis	sion						Chec	ked by				

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
of equipment inst	allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Zweygardt 43-33
	rounds 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 e to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
Julio	Signature: 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.