KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Ins	struct	ions on Re	verse Sid	e)						
Ор	en Flov	٧	-			Test Date	,-				Δ□	l No. 15					
Del	liverabi	lty				IGSI DAI						-023-210	34 - C	000			
Company Noble Er		Inc							Lease Zweyga	ardt				14-33	Well N	umber	
County Cheyenr	ne		Locat NW-NI		w-sw	Section 33			TWP 3S		RNG (E	E/W)			Acres	Attributed	
Field Cherry C	Creek	·				Reservoi Niobrara						thering C ern Star/K					
Completic 9/2/2008		€ .				Plug Bac 1525'	k Total	Dept	h		Packer	Set at					
asing Si ", 4-1/2"				Weight 17#, 10.5#			Internal Diameter 9-7/8", 6-1/4"			at ', 1569'	Perforations 1352'			To 1390'			
ubing Si 2-3/8"	ize		Weigl 4.7#	ht	•	Internal [1.995	Diamete	r	Set at 1413'		Perforations		То				
Гуре Соп Single ((De	scribe)		· · · · · · · · · · · · · · · · · · ·	Type Flui Saltwa		uction	1		Pump U Yes	nit or Trave	eling F	Plunger? Yes	/ No		
Producing Fubing	Thru	(Ann	ulus / Tubin	g)		% C	arbon	Dioxi	de		% Nitro	gen		Gas Gr	avity -	G,	
Vertical D	epth(H)						Pres	sure Taps					(Meter	Run) (F	Prover) Size	
	Buildup	p: 5	Shut in1/8		2									at			
Well on Line:			Started		13 at 8:30							at (AM) (PM					
							OBSE	RVE	D SURFAC	E DATA				oration of Shut-	_{in} _45	.25 Hours	
Static / Dynamic Property	Orific Size (inche	•	Circle one: Meter Prover Pressur psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)			Duration Lic (Hours)		quid Produced (Barrels)	
Shut-In			poig (rin)		110,700 1.120				psig 54	psia	psig	psia	+				
Flow																·	
				_			FLOW	STR	EAM ATTR	IBUTES					·· - · · · · · · · · · · · · · · · · ·		
Plate Coefficcient (F _b) (F _p) Mcfd			Circle one: Meter or Prover Pressure psia		Press Extension Pmxh	Gravity Factor F _g		Flowing Temperature Factor F ₁₁		Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
				<u> </u>		<u> </u>		ļ				<u> </u>					
P _c) ² =		_:	(P _w) ² =	=	:	(OPEN FL	• •		ERABILITY % (F	') CALCUI P _c - 14.4) ·		:		(P _a)	2 = 0.2 2 =	207	
(P _e) ² - (F or (P _e) ² - (F	- 1	(P	_c)²- (P _w)²	;	ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P _c ² - P	2	Slo	essure Curv pe = "n" - or esigned lard Slope	l n x	roe		Antilog	De	pen Flow liverability s R x Antilog (Mcfd)	
						<u> </u>			<u></u>			**************************************			<u> </u>		
open Flor	w				Mcfd @ 14.	55 psia			Deliverab	Dility			М	cfd @ 14.65 ps	ıa		
		•	•		ehaif of the report is true				•			he above i Decembei	•	and that he ha		vledge of	
- 14013 SI	.a.vV II		., and digit s		.opon is trut	and condu	LAGU	cu			July 01 _			,		C WICH	
	• •		Witness	(if any	y)			_	-		•		For Cor	npany			
			For Com	nissio	on			_	-				Checke	d by	_UE	C 30 20	
															F	RECEIVE	

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status ur	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the fore	going pressure information and statements contained on this application form are true and
orrect to the be	st 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.
I hereby requ	est a one-year exemption from open flow testing for the Zweygardt 14-33B
jas well on the g	rounds that said well:
(Chec	k one)
(is a coalbed methane producer
<u> </u>	is cycled on plunger lift due to water
	is a source of natural gas for injection into an oil reservoir undergoing ER
<u> </u>	is on vacuum at the present time; KCC approval Docket No
<u></u>	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
I further agre	
•	ry to corroborate this claim for exemption from testing.
•	ry to corroborate this claim for exemption from testing.
staff as necessa	
•	

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 with the signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 0 2013 RECEIVED