KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Reve	erse Side)					
☐ Op	en Flo	W			T1 D-1									
De	liverab	ilty			Test Date	∌:				No. 15 023 -20846 -0(2-00			
Company Noble Er		Inc		<u> </u>			Lease Zimbelma	n				W 31-31	ell Num	nber
County Cheyenr	ne		Locatio NW-NE	n	Section 31	-	TWP 3S		RNG (E/	W)		A	cres Al	tributed
Field Cherry C	Creek				Reservoi Niobran		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		hering Connecting Star/Kinde		n	-	····
Completic 2/4/2008		0			Plug Bac 1662'	k Total Dep	th	· · · · · · · · · · · · · · · · · · ·	Packer S	iet at		•	•	
Casing S 7, 4-1/2"		-	Weight 17#, 1		internal [9-7/8",		Set at 324'.	1704'	Perfo 149	rations 8'		To 1540'		
Tubing Si 2-3/8"	lze	·	Weight		Internal (Set at			rations		То	 ·	
Type Con Single (1 (D				d Productio	n		Pump Ur Yes	nit or Traveling	Plunger?	Yes /	No	
		(Anı	rulus / Tubing)		Carbon Diox	ide		% Nitrog	en	<u></u>	Gas Gra	vity - G	 1
Vertical D)eoth(H	<u> </u>				Pres	sure Taps					(Motor D	(Dec	ver) Size
											'	(Meret L	un) (Pro	over) Size
Pressure	Buildu						(PM) 1	aken		20 .	at		(A	M) (PM)
Well on L	.ine:		Started 3/2	2	0 11 at 2	:40	(AM) (PM) 1	Taken	· · · · · · · · · · · · · · · · · · ·	20 .	at	_ -	(A	M) (PM)
						OBSERVE	D SURFACE	DATA			Duration •	of Shut-ir	28.5	Hours
Static / Dynamic Property	Orifli Sizi (inchi	B .	Circle one: Meter Prover Pressur	ľ	Flowing Temperature t	Well Head Temperature t	Casin Wellhead P (P _w) or (P ₁)	ressure	Wellhe	Tubing ad Pressure r (P,) or (P _e)	Ourat (Hou			Produced arrels)
Shut-In			psig (Pm)	Inches H ₂ 0			140	psia	psig	psia	•			
Flow												-		
						FLOW ST	REAM ATTRIE	BUTES						
Plate Coeffiec (F _e) (F Mcfd	ient ,)	Pro	Circle one: Meter or ver Pressure psia	Press Extension	Grav Fac	tor	Flowing Temperature Factor F ₁₁	Fa	riation leter F _{pv}	Metered Flow R (Mcfd)	(GOR Cubic Fee Barrel)	ט	Flowing Fluid Gravity G
					1									
					(OPEN FL	OW) (DELIV	/ERABILITY)	CALCUL	ATIONS			(P)²	= 0.20	
(P _c) ² =		- :	(P _w) ² =_	<u></u> :	P,=		% (P _c	- 14.4) +	14.4 =	:		(P _d) ²		
$(P_a)^2 - (P_a)^2$ or $(P_a)^2 - (P_d)^2$		(F	P _e)2 - (P _m)2	thoose formula i or 2 1. P ₂ ² - P ₂ ² 2. P ₂ ² - P ₂ ² Moded by: P ₂ ² - P ₂	LOG of formula 1, or 2, and divide	P.2. P.2	Backpressure Curve Slope = "n"		n v 100		Antilog		Open Flow Deliverability Equals R x Antilog (Motd)	
			<u> </u>											
Open Flow Mcfd © 14.65				65 psia	5 psia Deliverability			Mcfd ② 14.65 psia						
										ne above repor	rt and the	at he has		
the facts s	ialed t	nerei	n, and that sa	d report is tru		RECEI			day of _	December		?	2	20 11
			Witness (if	any)		JAN 17	_		ery	For C	ompany	SO(Y		
			For Commit	ision		MIT!	4014 _			Chec	ked by			

KCC WICHITA

	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
and that the fore correct to the bes of equipment inst	going pressure information and statements contained on this application form are true and tof 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.
	est a one-year exemption from open flow testing for the Zimbelman 31-31 ounds 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 at to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/28/201	
	Signature: Cley Johnson 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

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