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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	i: ien Flov	w					tions on Re	verse Side	,	No. 45		
De	liverab	ilty			Test Date	: :				No. 15 023-21133-0	00-00	
Company NOBLE ENERGY, INC.					Lease ZWEYGARDT				Well Number 43-32B			
County Location CHEYENNE NE/SE			on	Section 32		TWP 3S			W)	Acres Attributed		
* ****					Reservoir NIOBRARA			Gas Gathering Connection KINDER MORGAN/SOUTHERN STAR				
Completion Date 11/07/2008				Plug Back Total Depth 1482'				Packer	Set at			
Casing Size Weight 7", 4-1/2" 17#, 11.6#					Internal (9-7/8",		Set a 250'	at ', 1562'	Perforations 1356'		т _о 1396'	
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1414'		Perforations		То	
Type Completion (Describe) Single (gas)			Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes 7 No Yes					
		(Anı	nulus / Tubing	1)	% C	arbon Diox	ide		% Nitrog	ieu	Gas G	ravity - G _g
Tubing Vertical D	Depth(H	i)				Pres	ssure Taps	•			(Meter	Run) (Prover) Size
Pressure	Buildu	n.	Shut in 11/	13	13 _{at} 1	1:00	/(AM) (PM)	Taken		20	at	(AM) (PM)
Pressure Buildup: Shu Well on Line: Star			Started 11/	11/14 20 13 at 11:15							at (AM) (PM)	
				<u> </u>		OBSERVE	ED SURFAC	E DATA			Duration of Shut	-in 24 Hours
Static / Orifice Dynamic Size		8	Circle one: Meter Prover Pressu	Pressure Differential re in	- 1	Well Head Temperature	Cas Wellhead (P _w) or (P	Pressure	Tubing Wellhead Pressure (P_w) or (P_1) or (P_c)		Duration (Hours)	Liquid Produced (Barrels)
Property Shut-In			psig (Pm)	inches H ₂ 0			psig 33	psia	psig			
Flow		• • • • • • • • • • • • • • • • • • • •					00		 			
	I		L			FLOW ST	REAM ATTR	IBUTES	.1			
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Gravity Factor F _g		Temperature F		oviation Metered Flow factor R F _{pv} (Mcfd)		v GOR (Cubic Fo Barret	eet/ Fluid Gravity
	1				(ÖPEN FL	OW) (DELIV	/ERABILITY) CALCUI	LATIONS		(P)2= 0.207
(P _c) ² =		_:	(P _w) ² =	::	P _d =		% (F	- 14.4) -	+ 14.4 = _	:	-)2 =
$(P_{c})^{2} - (P_{p})^{2}$ or $(P_{c})^{2} - (P_{d})^{2}$		(P _c)² - (P _w)²		Choose formula 1 or 2: 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpresst Slope or Assig Standard		n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mctd)
Open Flo				Mcfd @ 14.	SE poio	····	Deliverat	silih.			Mcfd @ 14.65 ps	
		·			-	elekee khak l		•	to make t	****		
		-	•	i benair of the			-					as knowledge of, 20 <u>13</u>
 -			Witness (i	f any)			-			For	Сотралу	CC WICHI
			For Cornm	ission			•			Che	rked by	
												DEC 3 0 2013

exempt status un and that the fore correct to the bes of equipment inst	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 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 R. ZWEYGARDT 43-32B
	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 y to corroborate this claim for exemption from testing.
Date: <u>12/18/201</u>	. 3
	Signature: Muse-Reynolds Title: REGULATORY ANALYST III

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

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