RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruc	ctions on Re	verse Side	e)					
Open Flow Deliverabilty				Test Date: API No. 15 15-023-20779 - G000											
Company Noble Energy Inc					Lease Zweygardt			Well Numbe 21-32			umber				
County Cheyenr		Locat NENW	Location IENW			Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed			
Field Cherry Creek					Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan							
Completion Date 9/7/2007				Plug Back Total Depth 1528'			Packer S		-						
Casing S 7", 4-1/2			Weight 17#, 9.5#			Internal Diameter 9-7/8", 6-1/4"			Set at 293', 1588'		rations 4'	то 1458'			
Tubing Si 2-3/8"	ize		Weight 4.7#			Internal Diameter 1.995			Set at 1413'		rations	То			
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Ua Yes	nit or Traveling	Plunger? Yes / No					
Producing Thru (Annulus / Tubing) Tubing				% C	% Carbon Dioxide				% Nitrogen			Gas Gravity - G			
Vertical C	Depth(F	H)					Pre	ssure Taps				(Meter	Run) (F	Prover) Size	
Pressure	Buildu	ıp:	Shut in 3/7	7	20	0_13_at_1	0:50 AM	_ (AM) (PM)	Taken		20	at		(AM) (PM)	
Well on Line: Sta			Started 3/8	3	20	13 at 1	1:50 AM	_ (AM) (PM)	Taken		20	at		(AM) (PM)	
							OBSERV	ED SURFAC	E DATA			Duration of Shut	_{in_25}	Hours	
Static / Dynamic Property	Size Prove		Circle one: Meter Prover Press psig (Pm)	ure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	e Wellhead (P _w) or (F	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Fubing ad Pressure r (P ₁) or (P _c) psia	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In								130	рзи	psig	para				
Flow															
				_			FLOW ST	REAM ATTE	RIBUTES	 ;					
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Cutanalaa		vity tor	Flowing Temperature Factor F _{f1}	emperature Fac		viation Metered Flow actor R F _{pv} (Mcfd)		eet/	Flowing Fluid Gravity G	
 				1.		(OPEN FL	OW) (DELI	VERABILITY	/) CALCUI	LATIONS		(P.)) ² = 0.2	207	
(P _c) ² =		_:	(P _*)² =		<u> </u>	P _d =		_% (P _c - 14.4) -	+ 14.4 =	<u></u> :	(P _a)			
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_g)^2$		(F	(P _c) ² - (P _w) ²		is a formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ and by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		In vioe		Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo					Mcfd @ 14.6	SE nois		Deliveral	hility			Mcfd @ 14.65 ps	in		
									· · · · · ·						
		-	d authority, o			• •		•			-	rt and that he ha			
			Witness	(if any	r)						For C	Company		WICHI	
			For Com	missic	n						Chec	ked by			
													DEL	3 0 2013	

	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	tatus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	the foregoing pressure information and statements contained on this application form are true and
	the best of my knowledge and belief based upon available production summaries and lease records
	nent installation and/or upon type of completion or upon use being made of the gas well herein named.
l here	eby request a one-year exemption from open flow testing for the Zweygardt 21-32
gas well (on the grounds that said well:
	(Check one)
	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
l furti	her agree to supply to the best of my ability any and all supporting documents deemed by Commission
	necessary to corroborate this claim for exemption from testing.
	3
. . 40	9/4.0/2042
Date: 12	<u>//18/2013</u>
	Signature: Kille mills

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