KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: Open Flow				(See Instructions on Reverse Side)											
Deliverabilty			Test Date	Test Date: API No. 15 15-023-20843 - 0000											
Company Noble E	Energ	y Ir	ıc.					Lease Zweyga	ardt			23-31	Well Nur	mber	
County Cheyenne			Locat NESW		Section 31			TWP 3S		RNG (E/W) 41W			Acres Attributed		
Field Cherry C	reek		· · · · · · · · · · · · · · · · · · ·		Reservoir Niobrara						athering Conr ern Star/Kind				
Completic 7/10/200		9			Plug Bac 1634'	k Total D	Depth			Packer	Set at		VO.	-14 0 9 X(
Casing Si 7", 4-1/2			Weigh 17#,	nt 11.6#	Internal Diameter 9-7/8", 6-1/4"			Set at 317', 1678'		Perforations 1472'		To 1510'		S WICH	
Tubing Si 2-3/8"			Weigh 4.7#		Internal Diameter			Set at 1530'		Perforations		То			
Type Con Single (ı (De	escribe)		Type Flui Saltwa			Pump L yes	Jnit or Travelin	g Plunger? Yes	/ No				
Producing tubing	Thru	(Anr	nulus / Tubin	g)	% Carbon Dioxide					% Nitrogen Gas			Gravity - G _g		
Vertical D	epth(H)				Р	ressu:	re Taps				(Meter	Run) (Pro	over) Size	
Proceure	Buildur	n. (2/2 Shut in	1 2	, 12 , 2	:00	10	M) (PM)) Takan			at			
		Started 2/2					M) (PM)					at (AM) (PM)			
						OBSEF	RVED	SURFAC	E DATA			Duration of Shut-	-in 24.5	Hours	
Static / Dynamic Property	Orific Size	9	Circle one: Meter Prover Pressi	1	Flowing Temperature t	Well He	ad	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid	Liquid Produced (Barrels)	
Shut-In			psig (Pm)	Inches H ₂ 0				psig 141	psia	psig	psia				
Flow															
	-			T	I	FLOW 9			RIBUTES		1]	
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P _m x h	Gra Fac F	tor	Ten	emperature Fa		viation actor F _{pv}	Metered Flo R (Mcfd)	(Cubic Fe	GOR Flo (Cubic Feet/ Gra Barrel) (
<u> </u>				<u> </u>	(OPEN FL	OW) (DE	IIVEE	A DII ITY	O CALCIII	ATIONS					
(P _o) ² =		:	(P _u) ² =	· :	•		% %		P _e - 14.4) +				1 ² = 0.20		
(P _c)²- (I	$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		P _c) ² - (P _w) ²	Choose formula 1 or 2 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w	e formula 1 or 2: Pc - Pc a LOG of formula Pc - Pc d 1. or 2. and divide		2	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x l OG		Antilog	Ope Deliv Equals	en Flow verability R x Antilog Mcfd)	
Open Flo				Mcfd @ 14.	· ·			Deliveral				Mcfd @ 14.65 ps			
		-	•	n behalf of the aid report is true	, ,			•			=	ort and that he ha		edge of 0 <u>12</u> .	
			Witness ((if any)			_				For	Company			
			For Comm				-					ecked by			

JAN U 3 2013

KCC WICHITA

	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status u	nder Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc.
and that the for	egoing pressure information and statements contained on this application form are true and
correct to the be	est of my knowledge and belief based upon available production summaries and lease records
• •	stallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby red	uest a one-year exemption from open flow testing for the Zweygardt 23-31
gas well on the	grounds that said well:
(Che	ck one)
(0,10	is a coalbed methane producer
	is cycled on plunger lift due to water
<u></u>	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
I further agi	ee to supply to the best of my ability any and all supporting documents deemed by Commissic
staff as necess	ary to corroborate this claim for exemption from testing.
Date: 11/30/20	12
	\mathcal{L}
	Signature: Z

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.