KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				((See Instruct	tions on Re	verse Side	9)				
= '	en Flo liverab				Test Date	e:				No. 15 023-20780-0	0-00		
Company Noble E		Inc		•			Lease Zweyga	ardt			22-32	Well Number	
County Cheyenne			Location SE-NW		Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed		
Field Cherry Creek					Reservoir Niobrara					Gas Gathering Connection Southern Star/Kinder Morgan			
Completic 11/6/200		0		Plug Back Total De 1533'				Packer Set at					
Casing Size 7", 4-1/2"			Weight 20#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 281', 1573'		Perforations 1350'		то 1378'		
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1481'		Perforations		То	······································	
Type Completion (Describe Single (gas)			escribe)	Type Fluid Product Saltwater			n Pump Unit or Traveling Yes			Plunger? Yes	/ No		
Producing	Thru	(Anı	nulus / Tubing)	 !	% C	Carbon Dioxí	də		% Nitrogo	en	Gas Gr	avity - G	
Vertical D	epth(H	l)		-		Pres	sure Taps				(Meter f	Run) (Prover) Size	
Pressure	Buildu		Shut in _3/14	2	11 at 1		(PM)	Taken		20 .	at	(AM) (PM)	
Well on L	ine:		Started 3/15	2	0 <u>11</u> at <u>1</u>	0:20	(PM)	Taken		20	at	(AM) (PM)	
· · · · · · · · · · · · · · · · · · ·			Circle one:	P	[OBSERVE	D SURFAC				Duration of Shut-	in 24 Hours	
Static / Dynamic Property	Dynamic Size		Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature Temperatur t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P ₌) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Bartels)	
Shut-In							105				•		
Flow					<u> </u>	FI 614 670			<u> </u>		:		
·	- 1		_ 1			FLOW STR	EAM ATTH	IBUTES	—т			- 1 ' 	
Plate Coeffiecient (F _s) (F _p) Mcfd		Circle one: Meter on Prover Pressure psia		Press Extension P _m xh	Grav Fac	tor	Tomografica		riation actor pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m	
											:		
(P _c) ² =			(P _w) ² =_		(OPEN FLO	OW) (DELIV) CALCUL P ₄ - 14.4) +				² = 0.207 ² =	
(P _c) ² - (I or (P _c) ² - (I		(F	P _c) ² - (P _w) ²	1. P ² -P ² 2. P ² -P ² wided by: P ² -P ²	LOG of formula 1, or 2, and divide	P.2. P.2	Backpre Slo As	ssure Curve pe = "n" - or signed lard Slope	n x l	og [Antilog	Open Flow Deliverability Equats R x Antilog (Mctd)	
								<u> </u>			,		
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	oility	i		/lcfd @ 14.65 psi	a	
		•	-							•	t and that he ha	. •	
the facts s	tated th	erei	n, and that said	d report is true	and correc	t. Executed	this the 8		day of De	C /1		20 11	
			Witness (if a	any)			-	K	ey	For Co	mpany	REULIVE	
			For Commis	sion			-	•	<u> </u>	Check	ed by	DEC 2 8 20	

and that the for correct to the be	der penalty of perjury under the laws of the state of Kansas that I am authorized to request or notice Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc. egoing pressure information and statements contained on this application form are true and st 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. uest a one-year exemption from open flow testing for the Zweygardt 22-32
gas well on the	grounds 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 ee to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessa Date: 12/8/201	ry to corroborate this claim for exemption from testing.
	Signatura Clay (Al)

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.

DEC 2 8 2011

KCC WICHITA