KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				•	(See Instr	uctio	ons on Reve	rse Side)					
=	en Flow liverabilt	y			Test Date	:					Pl No. 15 5-023-21002-	00-00			
Company Noble Er		nc.						Lease Zweygard	dt	10	-023-21002-	43-1	Well No	umber	
County Cheyenr		Loca	ation 2 NE SE		Section 1			TWP 4S		RNG (E	E/W)		Acres	Attributed	
Field Cherry C		*** L	ZNLOL		Reservoir Niobrara					Gas Ga	athering Connern Star/Kind				
Completion 7/10/200	n Date				Plug Back		epth)		Packer		ior interguir			
Casing Si 7", 4-1/2	ize	Wei	ght , 11.6#		Internal Diameter 9-7/8", 6-1/4"			Set at 211', 1647'		Perforations 1428'		To 1464	то 1464'		
Tubing Si 2-3/8"		Weig	ght		Internal Diameter 1.995			· · · · · · · · · · · · · · · · · · ·		orations	То				
Type Con		(Describe)	<u> </u>		Type Flui		tion					Plunger? Yes	∑/ No		
Single (• •	Annulus / Tubi	ina)		Saltwa % C	ter arbon Di	oxid	e		Yes % Nitro	Rod F	UMO Gas G	iravity -		
Tubing	, ()				,. O		J.11U	-		,0 / mil	.9~"	,		~ ₀	
Vertical D	epth(H)		"			Pi	ress	ure Taps				(Meter	Run) (F	rover) Size	
Pressure	Buildup:	Shut in6/	11	20	13 at 1:	45		(AM)(PM)) T	aken		20	at		(AM) (PM)	
Well on L	•	Started 6/			13 at 2			(AM) (PM) T				at			
						OBSER	VEC	SURFACE	DATA			Duration of Shu	_{t-in_} 25	Hours	
Static / Dynamic Property	Orifice Size (inches	Prover Pres	Differei	ntial .	Flowing Temperature t	Well Hea Temperat	- 1	Casing Wellhead Pressure (P_w) or (P_l) or (P_c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		psig (Fit	i) inches	n ₂ 0				psig 88	psia	psig	psia		-		
Flow															
						FLOW S	TRE	EAM ATTRIE	BUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Extens	Press Extension √ P _m xh		rity	Flowing Temperature Factor F _{II}		Deviation Factor F _{pv}		Metered Flo R (Mcfd)	(Cubic F	GOR (Cubic Feet/ Barrel)		
					1		•••								
(P _c) ² =		: (P _w) ²	² =	<u>.</u> :	(OPEN FL	OW) (DE	LIVE	RABILITY) (P _.	CALCUL - 14.4) +				$(x^2)^2 = 0.2$ $(x^2)^2 = 0.2$	207	
(P _c) ² - (I or (P _c) ² - (I		(P _c) ² - (P _w) ²	1. P _c ² -1	1. P _c ² -P _a ² 2. P _c ² -P _d ² dead by: P _c ² -P _a ²		P _e ² - P _w ²		Backpress Slope o Assig	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	O De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					<u>.</u>	, .,	<u>.</u>								
Onc- 5	<u></u>		B4-4-1-6		E neie			Define			•	Motel @ 14.55			
Open Flo			Mcfd €					Deliverabili				Mcfd @ 14.65 p			
	_	ned authority, erein, and that						•				ort and that he h		vledge of 20 <u>13</u> .	
.5 .2010 8		and that	Sale report			,,,,,,,				July 01 _					
		Witnes	s (if any)				-				For	Company	KC	C WICH	
		For Co	mmission				_	_			Che	ecked by	DE	C 3 1 20	

	re under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt sta	tus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that th	e foregoing pressure information and statements contained on this application form are true and
correct to th	ne best of my knowledge and belief based upon available production summaries and lease records
	nt installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereb	y request a one-year exemption from open flow testing for the Zweygardt 43-1
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
	To not capable of producing at a daily rate in excess of 250 mone
I furthe	r agree to supply to the best of my ability any and all supporting documents deemed by Commissic
staff as ned	bessary to corroborate this claim for exemption from testing.
	6/13
Data: 12/2	
Date: 12/2	
Date: <u>12/2</u>	
Date: <u>12/2</u>	
Date: <u>12/2</u>	Signature:
Date: <u>12/2</u>	Signature:

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 3 1 2013

RECEIVED