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	9:				l No. 15 -023-20779-0	0-00		
Company Noble E		Inc					Lease Zweyga	ardt			21-32	Well Nu	mber
County Cheyenne			Locati NE-NW		Section 32		TWP 3S			/W)	Acres Attributed		
Field Cherry (Creek				Reservoi Niobrar					thering Conne ern Star/Kind			
Completion 9/7/2007		e			Plug Bac 1528'	k Total Dept	th		Packer	Set at		_	
Casing S 7", 4-1/2			Weigh 17#, 9		Internal Diameter 9-7/8", 6-1/4"			Set at 293', 1588'		orations 4'	то 1458'		
Tubing S 2-3/8"	ize		Weigh 4.7#	ŧ	Internal I	Diameter	Set - 141		Perforations		То		
Type Cor Single (-	n (D	escribe)		Type Flu Saltwa	id Production	n		Pump U Yes	nit or Traveling	Plunger? Yes	/ No	
		(Anı	nulus / Tubing	3)	% (Carbon Dioxi	de		% Nitro	jen	Gas G	ravity - (3 ₀
Vertical E	Depth(F	1)				Pres	sure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildu	p :	Shut in 8/3	12	0 11 at 1	1:00	(AM) (PM)	Taken		20	at		(AM) (PM)
Well on L	.ine:		Started 9/1		0 <u>11</u> at <u>1</u>	1:00	(PM)	Taken	20		at	((AM) (PM)
			-			OBSERVE	D SURFAC	E DATA			Duration of Shut	in 24	Hours
Static / Dynamic Property	Orifi Siz (inch	0	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature	Well Head Temperature t	Wellhead (P _w) or (f	sing I Pressure P _r) or (P _e)	Wellho	Tubing ead Pressure or (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			pang (1 111)	monds 11 ₂ 0			psig 133	psia	psig	psia	:		
Flow													
					,	FLOW STR	REAM ATTR	RIBUTES			<u> </u>		
Plate Coeffied (F _b) (F Mcfd	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m x h	ktension Factor		Temperature F		viation Metered Flow actor R F _{pv} (Mcfd)		v GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
			-		(OPEN FL	OW) (DELIV	ERABILITY	r) CALCUI	_ATIONS		(9)		
(P _c)² =		_:	(P _w) ² =		P _a =			P _e - 14.4) +		 :	_	$)^2 = 0.2$ $)^2 = $	U/
(P _e) ² - (or (P _e) ² - (_	(F	P _c) ² - (P _w) ²	1. P _c ² · P _d ² 2. P _c ² · P _d ² advided by: P _c ² · P _w	LOG of formula 1, or 2, and divide	P.2. P.2	Slo As	essure Curve ope = "n" - or ssigned dard Slope	l n x	rog	Antilog	Del Equals	pen Flow iverability s R x Antilog ((Mcfd)
		••••									· :	<u> </u>	
Open Flo	w		I	Mcfd @ 14.	65 psia		Deliverat	bility		<u></u>	Mcfd @ 14.65 ps	l ia	<u>÷</u>
The	unders	igne	d authority, o	n behalf of the	Company,	states that h	e is duly a			=	rt and that he ha		-
he facts s	itated t	herei	in, and that sa	aid report is tru	e and correc	t. Executed	this the 8	0	day of	December	D		EIVED
			Witness (i	f any)			-		ey	For	Company		2 8 2011
			For Comm	ission			-			Che	ked by		VICHIT
											rX.	JU 1	AICHI!

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby 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		e under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
(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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commissionstaff as necessary to corroborate this claim for exemption from testing.	and that the correct to the of equipmen	foregoing pressure information and statements contained on this application form are true and e best of my knowledge and belief based upon available production summaries and lease records tinstallation and/or upon type of completion or upon use being made of the gas well herein named.
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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commissionstaff as necessary to corroborate this claim for exemption from testing.		
		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
	staff as nece	essary to corroborate this claim for exemption from testing.
		Signature: Cheryl Johnson

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