KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flov	N						uctio	ons on Reve	erse Side	e)				-			
De	liverabi	lty				Test Date):					API N 15-02		855-0	0-00			,
Company Noble Er		Inc		-			······		Lease Zweygar	dt						42-33	Well Nu	ımber
County Location Cheyenne SE NE				on Section 33				TWP RNG (E/W) 3S 41W			/)		Acres Attributed					
Field Cherry C	reek					Reservoir Niobrara						s Gatho	•			gan		
Completic 1/25/200		е				Plug Bac 1564'	k Total O	epth	1		Pac	ker Se	t at					
Casing Si 7", 4-1/2		Weight 17#, 10.5#				Internal Diameter 9-7/8", 6-1/4"			Set at 240', 1607'			Perforations 1376'			то 1416'			
Tubing Si 2-3/8"	ubing Size -3/8"		Weight 4.7#			Internal D 1.995	Internal Diameter 1.995		Set at 1447'		Perforations			То				
Type Con Single (ı (De	escribe)			Type Flui Saltwa		lion			Pur	np Unit	or Tra	iveling	Plunge	er? Yes	/ No	
Producing	Thru	(Anr	nulus / Tubin	g)		% C	arbon Di	oxid	le		%	Nitroge	n		<u> </u>	Gas Gr	avity - (3 ₀
Tubing							-			•								
Vertical D	epth(H	1)					Pr	ess	ure Taps							(Meter	Run) (P	rover) Size
Pressure	Buildu	p:	Shut in 11/	14	2	0_13_at_1	2:30		(AM)(PM))	Taken				20 .	a	t		(AM) (PM)
Well on L	ine:		Started 11/	15	2	o_13_at_4	:00		(AM) (PM)	Taken	····	<u></u>		20	a	t		(AM) (PM)
							OBSER	VE	SURFACE	DATA					Duratio	on of Shut	in_27	.5 Hours
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		P _c)	Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			poig (i iii)		11101103 1120	, -			74	psia	\vdash	psig	ps	sia				
Flow																		
			#	1			FLOW S	TR	EAM ATTRI	BUTES								
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fac F	tor	Flowing Temperature Factor F _t ,		Fa	Deviation Factor F _{pv}		Metered Flow R (Mcfd)			GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m
(P _c) ² =			(P)² =			(OPEN FL	• •	IVE	ERABILITY)	CALCUL - 14.4) +						(P _a)) ² = 0.2	207
(P _c) ² - (I	$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		ose formula 1 or 2 1. P ₂ ² - P ₂ ² 2. P ₂ ² - P ₂ ² ted by: P ₂ ² - P ₂ ²	LOG of formula 1, or 2, and divide	LOG of formula 1. or 2.		Backpressure Curv Slope = "n" Or Assigned Standard Slope		B N X LOG			Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flo	w				Mcfd @ 14.	65 psia			Deliverabil	lity				l	Mcfd €	14.65 ps	ia	
		_	d authority, o						•					•	rt and	that he ha		rledge of 20 <u>13</u> .
ne lacts s	iaied ti	ierei	in, and that s	a10	report is true	and collec	. cxecu	ieu i	uns tile		uay	JI						
			Witness	(if an	у)			-				**		For C	ompany		KC	C WICH
			For Com	missik	on			-	_					Chec	ked by		DE	C 3 1 2 01

exempt status und and that the foreg correct to the best of equipment insta	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records liation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Zweygardt 42-33
gas well on the gr	ounds that said well:
staff as necessar	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 supply to the best of my ability any and all supporting documents deemed by Commissive to corroborate this claim for exemption from testing.
Date: 12/26/13	
	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
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