KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t: en Flo	w	ONE		·	'	ructi	ons on Re	everse Sid	,			•				
Deliverabilty						Test Date: 11/06/2006					API N 15-0:	lo. 15 23 -20548~	0	- OO			
Company Noble Energy Production, Inc.						Lease Zweyg:									Well Number 22 - 5		
County Location Cheyenne SENW				Section 5							RNG (E/W) 41W			Acres Attributed 160			
Field Cherry Creek				Reservoir Niobrara				Gas Gathering Con Bitter Creek Pipeli									
5/22/200		е			Plug Bac 1556'	k Total D	epth	1		Packe	er Se	t at					
Casing S 4-1/2"	Casing Size Weight 4-1/2" 10.5#				Internal Diameter 4.052			Set 155		Perforations 1383'			To 1419'				
Tubing Si	ize		Weig	ht	Internal [Internal Diameter			Set at			itions		То			
Type Completion (Describe) Single Zone - cased hole				Type Flui None	d Produc		Pump Unit or Travelir No				ng Plunger? Yes / No						
	Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide				% Nitrogen				Gas Gravity - G _g			
Vertical Depth(H) 1424'					Pressure Taps								(Meter Run) (Prover) Size 2"				
Pressure	Buildu	p: :	Shut in11	/06 2	06 at 1	0:20AM	l ((AM) (PM)	Taken_1	1/07		20	<u>06</u> a	3:19 P	M	(AM) (PM)	
Well on L	ine:		Started	2	0 at		((AM) (PM)	Taken			20	a	t		(AM) (PM)	
						OBSER	VED	SURFAC	E DATA				Durati	on of Shut-	_{in} _29	Hours	
Static / Dynamic Property	Orifi Siz (inch	ize Prover Pressure in			Flowing Well Head Temperature t			Cas Wellhead (P _w) or (F	(P,	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia			Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			poig (;,	1101100 1120				psig 239	psia 253	n/a		n/a	24				
Flow									1000-100								
						FLOW S	TRE	AM ATTR	IBUTES	•	1					 	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Gravity Factor F _g		Flowing Temperature Factor F ₁₁		Deviation Factor F _{pv}		i	Metered Flow R (Mcfd)		w GOR (Cubic Fed Barrel)		I Gravity	
					40000					ATION							
(P _c) ² =: (P _w) ² =:			(OPEN FLOW) (DELIVERA P _d =%				(P _c - 14.4) + 14.4 =			:	$(P_a)^2 = 0.207$ $(P_d)^2 = $						
(P _c) ² - (F or (P _c) ² - (F		(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: $P_c^2 - P_w^2$	P _c ² -P _a ² LOG of formula P _c ² -P _c ² 1. or 2. and divide		P _c ² -P _w ²		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flov	<u> </u>			Mcfd @ 14.	65 psia			Deliverab	oility				Mcfd @	14.65 psi	a a	ſ	
The u	ındersi	_	•	n behalf of the	Company, s			is duly a	uthorized t	day of	/Alas		rt and	that he ha	s know	20 <u>06</u> .	
			Witness	(if any)			-	Z		<u> </u>)	For C	Company	AS CORP	ORATIC	ON COMMISS	
			For Comp	nission			-	-				Chec	ked by	NUV	14	2006 —	

CONSERVATION DIVISION WICHITA, KS

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. 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 theZweygardt_22 - 5 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		
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 22 - 5 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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006		
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 22 - 5 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 mct/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006	and that the	foregoing pressure information and statements contained on this application form are true and
I hereby request a one-year exemption from open flow testing for the	correct to th	e best of my knowledge and belief based upon available production summaries and lease records
(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 Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006		
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 Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006		
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 Commission staff as necessary to corroborate this claim for exemption from testing. Date:	(Check one)
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 Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006		is a coalbed methane producer
is on vacuum at the present time; KCC approval Docket No		is cycled on plunger lift due to water
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006 Signature:		is a source of natural gas for injection into an oil reservoir undergoing ER
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/13/2006 Signature:		is on vacuum at the present time; KCC approval Docket No
Signature: Signature:		✓ is not capable of producing at a daily rate in excess of 250 mcf/D
Date: 11/13/2006 Signature:	I further	agree to supply to the best of my ability any and all supporting documents deemed by Commission
Signature:	staff as nec	essary to corroborate this claim for exemption from testing.
Signature:		
	Date: 11/13	3/2006
Title: Regulatory Analyst		Signature:
		Title: Regulatory Analyst

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 CORPORATION COMMISSION

NOV 1 4 2006