KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruct	ions on Rev	verse Side)				
Open F		Test Date	Test Date: API No. 15									
Deliver	abilty								23-20779-0	0-00		
Company Noble Energy, Inc.					Lease Zweygardt				Well Number 21-32			
County Location Cheyenne NE-NW			Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed			
					Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Cherry Creek Compressor				
Completion Date Plug Back To 9/20/2007 1528'					k Total Dept	oth Packer Set at			et at			
Casing Size Weight 7", 4-1/2" 17#, 9.5#			Internal E 9-7/8",		Set at 293', 1588'		Perforations 1394'		то 1458'			
Tubing Size Weight			Internal D		Set at		Perforations		То			
Type Completion (Describe)					Type Fluid Production Saltwater			Pump Un Yes	it or Traveling	Plunger? Yes / No		
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitrogen		Gas Gr	Gas Gravity - G _g	
Annulus Vertical Depth(H)					Pressure Taps				(Meter Run) (Prover) Size			
Program Puil	dun	Shut in 4/2	9/	10 at 1	1:00	(AAA) (BAA)	Takan		20	at	(AM) (PM)	
Pressure Buildup: Well on Line:		Started 4/30/ 20		10 2:00		(AM) (PM) Taken				at		
					OBSERVE	D SURFACE	E DATA			Duration of Shut-	in 27 Hours	
Dynamic S	rifice Size	Circle one: Meter Prover Pressu	Pressure Differential	Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure (P _w) or (P _c) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)			Liquid Produced (Barrels)	
· · ·	ches)	psig (Pm)	Inches H ₂ 0		t	psig	psia	psig	psia		,	
Shut-In Flow						135						
Flow					51 0111 070							
Plate	1	Circle one:	_		FLOW STR	Flowing	IBUIES				Flowing	
Coefficcient		Meter or over Pressure psia	Press Extension ✓ P _m x h	Grav Fact F _g	or T	Temperature Factor F _{tt}		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	et/ Fluid	
				(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS			2 0 007	
(P _c) ² =		(P _w) ² =	·	P _d =		•	, - 14.4) +		<u> </u>	(P _a)	² = 0.207 ² =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(9	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	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slop	ssure Curve ne = "n" or signed ard Slope	nxL	og []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
O 5'			11-51 @ 44	\		D-live selei	2134			4-6-8-4-65		
Open Flow			Mcfd @ 14.6			Deliverabi				Vlcfd @ 14.65 psi		
	-	•	n behalf of the					make the	-	t and that he ha	s knowledge of, 20 10 RECEIVED	
	· · · · · · · · · · · · · · · · · · ·	Witness (ii	f any)				\longrightarrow	Um	For C	SAMUT Ompany	AUG 2 5 2010	
<u></u>		For Comm	desion			****	<i>U</i>		Chec	ked by	KCC WICHI	

exempt status und and that the forego- correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. going pressure information and statements contained on this application form are true and tof my knowledge and belief based upon available production summaries and lease records allation 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 21-32
gas well on the gr	ounds that said well:
(Check	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 8/23/10	
	Signature: Junile: 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.