KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			(See Instruc	tions on Re	verse Side	9)					
Op	en Flow			Test Date	a·			ΔPI	No. 15				
De	liverabilt	у		rest ball	.				3-20781-00-0	0			
Company Noble E		nc.				Lease Zweyga	rdt			23-32	Vell Numbe	er .	
County Location Cheyenne SW-SE			Section 32		TWP 3S			RNG (E/W) 41W		Acres Attributed			
Field Cherry Creek Niobrara Gas Area				Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Cherry Creek Compressor						
Completion Date 9/21/2007				Plug Back Total Depth 1508'			Packer Set at N/A						
Casing Size Weight 7", 4-1/2" 17#, 9.5#				Internal (9-7/8",		Set at 295', 1552'		Perforations 1392'		To 1462'			
Tubing Size Weight N/A			Internal [rations	То	То			
		(Describe)		Type Flui Saltwa	d Productio	on .		Pump Ui	nit or Traveling	Plunger? Yes	/ No		
		Annulus / Tubin	g)		% Carbon Dioxide				en	Gas Gra	Gas Gravity - G		
Annulus							·····						
Vertical D	epth(H)				Pres	ssure Taps				(Meter F	lun) (Prove	r) Size	
Pressure	Buildup:		1/ 2	0 09 at 9		(AM) (PM)	Taken		20 .	at	(AM)	(PM)	
Well on L	ine:	Started 3/1	2/2	09 at 2	:30	(AM) (PM)	Taken		20	at	(AM)	(PM)	
•					OBSERVE	ED SURFACI	E DATA		i	Duration of Shut-i	29	Hours	
Static / Dynamic Property	Orifice Size (inches	Prover Press		Flowing Temperature t	Well Head Temperature t	nperature Wellhead Pressure Wellhead Pressure Duration (P) or (P) or (P) (Hours)		Liquid Produced (Barrels)					
Shut-In		psig (Pm)	Inches H ₂ 0			psig 180	psia	psig	psia				
Flow	·····												
·					FLOW ST	REAM ATTR	IBUTES		<u>'</u>				
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Gravity Factor F _g		Temperature Fa		iation Metered Flow R pv (Mcfd)		GOR (Cubic Fee Barrel)	et/	lowing Fluid Gravity G _m	
(P _c) ² =		: (P _w) ² =		(OPEN FL	, ,	/ERABILITY % (F	•			(P _a)² (P _d)²	= 0.207 =		
(P _c) ² - (F or (P _c) ² - (F	P _a) ²	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2:		LOG of formula 1. or 2.		Backpressure Curve		LOG	Antilog	Open Flow Deliverability Equals R x Antilog		
(P _c)*- (F	۵)٤		divided by: P _c ² - P _w ²	and divide by:	P _c ² - P _w ²		signed ard Slope		L J		(Mcf	-	
Open Flor	L w		Mcfd @ 14.	 65 psia		 Deliverab	ility	1		//cfd @ 14.65 psi	1	J	
The c	ındersigi	rein, and that s	n behalf of the aid report is true	Company, s		ne is duly au	thorized t		e above repor ecember For Co	t and that he ha			
		For Comr	nission	, •		_			Check	red by	~ WIC)	11 99	

	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request							
exempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.							
and that the fore	going pressure information and statements contained on this application form are true and							
correct to the bes	t of 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.							
I hereby requ	est a one-year exemption from open flow testing for the Zweygardt 23-32							
gas well on the gr	rounds that said well:							
(Oh1								
(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							
لــــا	The state of producing and analy take in colored or 200 may 2							
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission							
_	y to corroborate this claim for exemption from testing.							
Date: 12/1/2009								
Jaic.								
	Signature: Au DSGM							
	Title: Regulatory Specialist							
	Title: Regulatory Specialist							

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.