KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Ins	tructions on I	Reverse Side	9)					
	en Flov				Test Date	e:				l No. 15				
	liverab	шу							15	-023-21227-0	00-00	*** ***		
Company Noble Er		Inc					Lease Wiese				24-5	Well Num	ber	
County Location				Section		TWP 4S			/W)		Acres Attributed			
Cheyenne E2-E2-SE-SW Field				Reservoi				41W Gas Gathering Conne		ection	RECEIVED BEC 0.5 2			
Cherry Creek				Niobrar				Southern Star/Kinde		er Morgan	DF			
Completion Date 9/16/2010				Plug Bac 1544'	Plug Back Total Depth				Packer Set at					
Casing Size Weight				Internal I	Diameter	· Se	Set at		orations	То	KCC	WICH		
"', 4-1/2" 20#, 11.6#			9-7/8",			219', 1587'		96'						
Tubing Size Weight 2-3/8" 4.7#			Internal (1.995	Diameter	· Se	Set at		orations	То					
Type Completion (Describe) Single (gas)				Type Flui Saltwa		ction		Pump Unit or Traveling Yes		Plunger? Yes / No				
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitro	gen	Gas Gravity - G _g				
ubing														
ertical D	epth(H	i)				F	Pressure Taps				(Meter	Run) (Pro	ver) Size	
ressure	Buildu	p: :	Shut in1/2	24	₂₀ 12 _{at} 1	:00	(AM) (PI	Taken		20	at	(Al	M) (PM)	
Well on Line: Started 1/25 20				₂₀ 12 _{at} 2	:00	(AM) (PI	(AM) (PM) Taken		20	at		. (AM) (PM)		
						OBSE	RVED SURFA	CE DATA			Duration of Shut	-in 25	Hours	
Static /		rifice Circle one:		Pressure Differential	tial Flowing Well H		Wallhaad Draceura		Tubing Wellhead Pressure		Duration	Duration Liquid I		
ynamic Property		Size Prover Press psig (Pm)		su <i>re</i> in	lemperature t	Tempera t	(P _w) or (P _t) or (P _c)		(P_w) or (P_t) or (P_c)		(Hours)		(Barrels)	
Shut-In			paig (i iii)	THERES FI ₂ O	<u> </u>		116	psia	psig	psia		+		
Flow				-			1110							
						FLOW	STREAM AT	TRIBUTES	1			<u> </u>		
Plate			Circle one:	Press	Gra		Flowing		viation		000		Flowing	
Coeffictient (F _b) (F _a)		Meter or Prover Pressure		Extension	Extension Fac		Temperatur Factor	emperature Fa		Metered Flow R	(Cubic Fe	eet/	Fluid Gravity	
Mcfd Mcfd		psia		✓ P _m xh	F	g	F _{tt}		F _{pv}	(Mcfd)	Barrel)	G _m	
													ì	
					(OPEN FL	OW) (DE	LIVERABILI	TY) CALCUI	ATIONS		(P.) ² = 0.207	,	
°c)2 =	-	_:_	(P _w) ²	<u>=:</u>	P _d =		%	(P _c - 14.4) -	14.4 = _) ² =		
(P _c) ² · (P _a) ²		(F	$ (P_{o})^{2} - (P_{w})^{2} $ $ (P_{c})^{2} - (P_{w})^{2} $ $ (P_{c})^{2} - (P_{w})^{2} $ $ (P_{c})^{2} - P_{u}^{2} $ $ (P_{c})^{2} - P_{d}^{2} $ $ (P_{c})^{2} - P_{d}^{2} $		LOG of			Backpressure Curve Slope = "n"					1 Flow	
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$		2. P _c ² -P		2. P _c ² -P _d ²	formula 1. or 2. and divide P2. P		1 1	or Assigned		LOG	Antilog	Equals F	Deliverability Equals R x Antilog	
				divided by: P _c ² - P	by:	<u>'</u> ' ' '	· Sta	Indard Slope		<u> </u>		(M	cfd)	
Open Flor	w			Mcfd @ 14	4 65 nsia		Delive	rability			Mcfd @ 14.65 ps	l sia		
		iana	1 authority	· · · · · · · · · · · · · · · · · · ·		etatoe th			to make t		····		dan of	
				said report is tru							rt and that he h		_	
	"	J. J .	,	···· >peri to til					,			,		
			Witness	(if any)			_			EarC	Company			
										FOIC				

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 the Wiese 24-5 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
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.