KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Ins	tructio	ons on Re	verse Side))				
	en Flov liverabi					Test Date) :					No. 15	00-00		
Company Noble Energy Inc					Lease Zimbelman				15-023-21054-00-00 34-6			Well Number			
County Location			Section			TWP		RNG (E/W)			Acres Attributed				
Cheyenne E2-SW-SW-SE			6 Reservoir			48		41W Gas Gathering Con		nection	RECEIV DEC 0 5 KCC WICH				
Cherry Creek					Niobrara					ern Star/Kind			DEC DE		
Completion Date 8/14/2008			Plug Back Total Depth 1563'					Packer Set at				בני טיז			
Casing Size Weight			Internal Diameter			Set at		Perforations		То	To KCC WI				
7, 4-1/2" 17#, 11.6			6#	9-7/8", 6-1/4"			210', 1605'		1352'		·				
Tubing Size Weight 2-3/8" 4.7#			Internal Diameter 1.995			Set at 1409'		Perforations		То					
Type Completion (Describe)					Type Fluid Production				Pump Unit or Traveling Plunger? Yes						
Single (gas) Producing Thru (Annulus / Tubing)					Saltwater % Carbon Dioxide				Yes % Nitrogen Gas G			iravity -	6		
ubing	, ,,,,,	(Am	1005 / 1001	ıy)		76 C	aibon i	JIOXIO	ie		76 MILIO	jen	Gas G	ilavily -	G,
ertical D	epth(H	l)						Press	ure Taps		····		(Meter	Run) (I	Prover) Size
ressure	Buildu	p: :	2/9 Shut in)	20	12 at 1	2:30		(AM) (PM)	Taken		20) at		(AM) (PM)
Vell on L	ine:	;	Started 2/1	0	20	12 at 2	:00		(AM) PM	Taken		20) at		. (AM) (PM)
							OBSE	RVE	SURFAC	E DATA			Duration of Shu	t-in_25	5.5 Hours
Static /		Orifice Size inches) Circle one Meter Prover Pres. psig (Pm		1 1035010		Flowing	Well Head		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Lin	uid Produced
ynamic roperty				- 1	in	Temperature I	Temperature t		(P_w) or (P_i) or (P_c)		(P _w) or (P _t) or (P _c)		(Hours)		(Barrels)
Shut-In			psig (Fin)	-	Inches H ₂ 0		 		psig 101	psia	psig	psia		-	
Flow				\dashv					101				<u> </u>		
Flow							EL OW	STDI	EAM ATTR	IBUTES			<u> </u>		
Plate			Circle one:		Press			J.,	Flowing		,				Flowing
Coeffiecient			Meter or Prover Pressure		Extension	Gravity Factor		Temperature Factor		Fa	viation actor	Metered Flo	4	GOR (Cubic Feet/	
(F _b) (F _p) Mcfd			psia		✓ P _m xh	F,		F _{ii}		1	Fpv	(Mcfd)	Barre	Barrel)	
						(OPEN FL	OW) (D	ELIVE	ERABILITY) CALCUL	ATIONS	· · · · · · · · · · · · · · · · · · ·	(P	,) ² = 0.	207
) ² =		:	(P _w) ²	=	:	P _d =		%	s (f	P _c - 14.4) +	+ 14.4 =	:		1)2 =	
1		ose formula 1 or 2: 1. P _c ² - P _a ²	2: LOG of			Backpressure Curve						Open Flow			
or (P _a) ² - (P _a) ²		(2, (**/			2. P _c ² -P _d ²	formula 1. or 2.		Slope = "n"or Assigned		n x LOG		Antilog		eliverability its R x Antilog	
(' _c) (•	d,			divid	led by: $P_c^2 - P_w^2$	end divide by:	P _c ² - P	*		ard Slope					(Mcfd)
pen Flo	w				Mcfd @ 14.	65 psia			Deliverat	oility			Mcfd @ 14.65 p	sia	
The	undersi	igned	authority,	on b	ehalf of the	Company, s	states th	nat he	is duly a	uthorized t	to make t	he above rep	ort and that he h	as kno	wledge of
e facts s	tated ti	herei	n, and that s	said	report is true	and correc	t. Exec	uted	this the 3	0	day of _	November			, ₂₀ <u>12</u> .
									_						
			Witness	(if any	y)				_			For	Company		
			For Com	missio	on				-			Ch	ecked by		

exempt status und	ler 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
correct to the bes	going pressure information and statements contained on this application form are true and 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. est a one-year exemption from open flow testing for the
	rounds that said well:
	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
staff as necessar	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: 11/30/12	
	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.