KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:					(See Instru	uction	ns on Re	verse Side)						
Open Flow					Test Date: API No. 15												
Del	iverabi	lty				Tool Date	•						3-21203-0	0-00			
Company Noble Er		Inc						•	Lease Berry						14-8	Vell Nu	mber
County Location Cheyenne SE-NE-SW-SW					Section 8			TWP 2S		RNG (E/W) 38W				Acres Attributed			
Field Cherry Creek Niobrara Gas Area						Reservoir Niobrara				Gas Gathering Connection Southern Star				RECEIVED			
Completion Date 1/7/2009					Plug Back Total Depth 1443				Packer Set at					DI	EC 05 20		
Casing Size Weight 7", 4 1/2" 17#, 10.5#				Internal Diameter 9 7/8", 6 1/4"			Set at 256, 1483'		Perforations 1296				To 1340	KC	C WICH		
Tubing Size Weight n/a					Internal Diameter Se				Perforations				То				
Type Consingle (ı (De	escribe)			Type Flui saltwa	d Product ter	tion			Pump yes	Unit	or Traveling	Plunger?	Yes	/ No	
Producing Thru (Annulus / Tubing) Annulus					% Carbon Dioxide				% Nitrogen				Gas Gravity - G _g				
Vertical D)					Pro	essu	re Taps						(Meter F	Run) (Pr	over) Size
Pressure	Buildup	 o: :	Shut in 7/2	5	2	0_12_at_9	:00		AM) (PM)	Taken			20	at_		(AM) (PM)
Well on L	ine:	:	Started 7/20	6	20			>	\prec	Taken			20	at _		(AM) (PM)
							OBSER	VED	SURFAC	E DATA				Duration	of Shut-	n_24.	5 Hours
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	rential Flowing Temperature		id ure	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquio	d Produced Barrels)	
Shut-In			F 2/3 (/ 1//)		110100 1120	,		:	psig 202	psia	psig		psia				
Flow																	
				_			FLOW S	TRE	AM ATTR	IBUTES							
Plate Coeffiec (F _b) (F Mcfd	ent ,)	Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	Grav Fac F	tor	Ter	emperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		y GOR (Cubic Feet/ Barrel)		et/	Flowing Fluid Gravity G _m	
						(0.00)					4-71-0-14						
D 12			(D \2 _		·	(OPEN FL				•					(P _a) ² (P _a) ²	² = 0.2	07
$(P_c)^2 = $ $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _o) ² - (P _w) ²		: Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² + P _d ²		LOG of formula 1. or 2. and divide bu		% (P _c - 14.4) -		, bx10e		Antilog		Op Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				divid	ded by: $P_c^2 - P_w^2$	2 by:	L° w	1	Stand	dard Slope			il				(moro)
Open Flo	w				Mcfd @ 14.	65 psia			Deliverat	bility				Mcfd @	14.65 psi	ia	
		•	d authority, o						•				· ·	rt and th	at he ha		rledge of 20
			Witness (if an	у)			-					For C	Company			
			For Comm	nissio	on			-	-				Chec	cked by			

exempt status un and that the fore correct to the bes	der 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 st of my knowledge and belief based upon available production summaries and lease records
	rallation and/or upon type of completion or upon use being made of the gas well herein named. lest a one-year exemption from open flow testing for the Berry 14-8
	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 the to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
	Signature:

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.