KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Instructi	ions on Reve	erse Side	e)				
	en Flov iverab			Test Date:					API No. 15 15-023-21008-00-00				
Company						Lease				Well Number			
Noble Energy Inc County Location					D = -4i = -			Workman		RNG (E/W)		44-31B	
Cheyenn	ie			V-SE-SE	Section 31			TWP 3S		vv)		Acres Attributed RECEIVE	
Field Cherry C	reek					Reservoir Niobrara				hering Conne rn Star/Kinde	er Morgan DFC ()		
Completic 6/3/2008		e			Plug Bac 1607'	Plug Back Total Depth 1607'		Packer S		et at		KCC WICHI	
Casing Si 7, 4-1/2"			Weig 17#,	ht 11.6#		Internal Diameter 9-7/8", 6-1/4"		Set at 302', 1616'		rations 2'	то 1490'	WCC WICH	
Tubing Si	ze		Weig	ht	Internal (Internal Diameter		Set at 1506'		rations	То	······································	
2-3/8" Type Com	pletio	ı (De	4.7#		1.991 Type Flui	Type Fluid Production		Pump Unit or Tra		nit or Traveling	veling Plunger? Yes / No		
Single (gas)	·			Saltwa	ter			Yes				
Producing Tubing	Thru	(Ann	ulus / Tubir	ng)	% C	Carbon Dioxid	de	, %		6 Nitrogen Gas		s Gravity - G _g	
Vertical D	epth(F	1)	,			Press	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu	p: §	Shut in2/9)	20_12 at_1	:00	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on Li	ine:		Started 2/1		12 at 1	·nn	_	Taken	<u> </u>	20	at	(AM) (P M)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	n_24Hours	
Static / Ori Dynamic Si Property (inc		θ	Circle one: Meter Prover Press	Differential	Flowing Temperature		Wellhead P	Casing Wellhead Pressure (P_w) or (P_1) or (P_2)		Tubing ad Pressure r (P _{r.}) or (P _{c.})	Duration (Hours)	Liquid Produced (Barrels)	
		ches) psig (Pm)		Inches H ₂ 0	t	t	psig	psia	psig	psia			
Shut-In							88						
Flow													
Dist	1	• • • • • • • • • • • • • • • • • • • •	Circle one:	_		FLOW STR	EAM ATTRIE	BUTES				Flouring	
Plate Coeffiecient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia		Press Extension	Grav Fac F	tor T	Flowing Temperature Factor F _{ft}		viation actor F _{pv}	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m	
(P _c) ² =			(P _w) ²		(OPEN FL	OW) (DELIV	·		LATIONS		-	? = 0.207 ? =	
(1 _c)				Choose formula 1 or	2:		1	sure Curve		г ¬	\\ d'	Open Flow	
(P _c) ² · (P _a) ² or (P _c) ² · (P _d) ²		(P _c) ² - (P _w) ²		1. P _c ² -P _a ² 2. P _c ² -P _d ²	tomula		Slope = "n"		_ n x	LOG	Antilog	Deliverability Equals R x Antilog	
(P _c)2- (F	3 _d)2			divided by: P _c ² -P _c	and divide by:	P.º - P.º		igned ird Slope				(Mcfd)	
Open Flo	w			Mcfd @ 14	.65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	a	
		•	•				•			-	ort and that he ha	s knowledge of	
the facts s	tated t	herei	n, and that	said report is tru	e and correc	t. Executed	this the 30)	day of N	lovember		, 20 <u>12</u>	
			VACIA	fit anul			_			Earl	Company		
			Witness								Company		
			For Com	mission			_			Che	cked by	_	

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 Workman 44-31B 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 staff as necessary to corroborate this claim for exemption from testing.
Date:
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.