KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:		(See Instructions on Reverse Side)										
Open Flow Deliverabilty					Test Date:				API No. 15 15-023-20796-00-00				
Company Noble Energy, Inc.				Lease Workman			an				Well Number 33-31		
County Location Cheyenne NW-SE					Section 31		TWP 3S			W)		Acres Attributed	
Field Cherry Creek Niobrara gas area				Reservoi Niobra			Gas Gathering Conr Bittercreek Pipe						
Completion 10/9/20		е			Plug Back Total Dept 1595'		th		Packer Set at n/a				
Casing Size 7", 4-1/2"			Weight 17#, 9.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 317', 1639'		Perforations 14		то 1 90'	1530'	
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995"		Set at 1,547'		Perforations		То		
Type Con Single (escribe)		Type Flui Saltwa	d Productio	n	Pump Unit or Traveling F No - F o			>ฟ เท ฮ		
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitrogen Gas Gravity - G			ravity - G		
Vertical D	epth(F	1)				Pres	ssure Taps				(Meter	Run) (Prover) Size	
Pressure	Buildu	p :	Shut in 4/2	3/	08 at 7	:00	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on Line:			Started 4/2	5/ 2	08 at 5	:00	(AM) (PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in 58 Hours	
Static / Dynamic Property	Oynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	lemperature lemperat		Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _L) or (P _C)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-in			F-13 (1 m)				psig 77	psia	psig	psia			
Flow													
					T	FLOW STE	REAM ATTRI	BUTES					
Plate Coeffiecient (F _b) (F _p) Mcfd			Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m x h	Gravity Factor F ₀		Temperature Fa		viation Metered Flov actor R F _{pv} (Mcfd)		v GOR (Cubic Fe Barrel)	Gravity	
(P _c) ² =			(P _w) ² =	•	•		(ERABILITY) % (P.				(P _a) (P _d)	$r^2 = 0.207$	
		_ · (P		Choose formula 1 or 2	P _d =	$\overline{\Gamma}$	Backpressure Curve		n x LOG			Open Flow Deliverability	
or (P _c) ² - (P _d) ²			2. P _c ² -1		1. or 2. and divide p2_p		Assigned Standard Slope				Antilog	Equals R x Antilog (Mcfd)	
			•				-						
						······							
Open Flov	W			Mcfd @ 14.	65 psia		Deliverabi	iity			Mcfd @ 14.65 ps	ia	
		_	-	n behalf of the			Ė	~th,	make th	e above repo	rt and that he ha	as knowledge of	
··			Witness (i	any)	[RECEIVE IRPORATION	D Commissi	ZYVV OT	For C	Company	<i>W</i>	
	-		For Comm	ission					V	Chec	cked by		

MAR 0 6 2009

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 33-31 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: 3/5/04
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.