KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			{	See Instruct	ions on Hevi	erse Side	?)			
	en Flow			Test Date) :				No. 15		
	liverabilty							15-	023-20796-0		
Company Noble Er	nergy Inc					Lease Workma	n			33-31	Well Number
County		Location		Section			TWP 3S		W)		Acres Attributed
Cheyenne Field		NW-SI		31 Beservoir	Reservoir			41W Gas Gat	hering Conne	ection	RECEI
Cherry Creek			Niobrara						rn Star/Kinde		RECEI DEC 0 5 KCC WIC
Completion Date			k Total Dept	h		Packer Set at			בני שבני ש		
10/9/2007 Casing Size Weight		1598' Internal [Diameter	Set at	<u> </u>	Perfo	rations	То	KCC WIC		
7, 4-1/2" 17#, 9					317', 1639'		1490'		1530'	- 0 1110	
Tubing Size 2-3/8"		Weight 4.7#			Internal Diameter 1.995		Set at 1556'		rations	То	
Type Completion (Describe)				Type Fluid Production			,	Pump Ur	nit or Traveling	Plunger? Yes	/ No
ingle (gas)			Saltwa	ter			Yes			
	g Thru (Ar	ınulus / Tubin	g)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gr	ravity - G _g
ubing ertical E	epth(H)				Pres	sure Taps				(Meter	Run) (Prover) Size
	(· ')				. , 33					(y (o z o j o mo
ressure	Buildup:	Shut in _2/8	}	20 12 at 1	:30	(AM) PM	Taken			at	(AM) (PM)
Well on Line:		Started 2/9) ,		10 0.20						(AM) (PM)
ven on c	ine:	Starteu		20 al		(AW) (FW)	iakeii		20	aı	
					OBSERVE	D SURFACE	DATA			Duration of Shut-	-in25Hour
Static /	Orifice	Circle one: Meter	Pressure Differential	Flowing	Well Head	Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced
Dynamic Property	Size (inches)	Prover Press	<i>ure</i> in	Temperature t	Temperature t	(P _w) or (P _t) or (P _c)	(P _w) o	(P ₁) or (P _c)	(Hours)	(Barrels)
, ,		psig (Pm)	Inches H ₂ 0			psig	psia	psig	psia		
Shut-In		-				94					
Flow											
			1	1	FLOW STR	EAM ATTRI	BUTES				
Plate Coeffiecient		Circle one: Meter or	Press Extension	Gra Fac		Flowing Temperature		riation	Metered Flov	1	I Eluid
		Prover Pressure		F		Footor F		actor R F _{pv} (Mcfd)		(Cubic Fe Barrel)	1 Gravity
IVICIO	'	pola				* f(-				- I
						ERABILITY)					$)^2 = 0.207$
$P_c)^2 = _{_{_{_{c}}}}$:	(P _w) ² :	Choose formula 1 or			1		14.4 =	· · · · ·	(P _d))2 =
$(P_c)^2 - (P_a)^2$				LOG of formula	LOG of		Backpressure Curve Slope = "n"		LOG	A natit na	Open Flow Deliverability
or (P _c) ² - (P _d) ²		2. P _c ² -P _d ²		1. or 2.		Assigned		-		Antilog	Equals R x Antilog (Mcfd)
			divided by: P _c ² - P	by:	L "	Standa	ard Slope				(Micia)
										····	<u> </u>
Open Flo	w		Mcfd @ 14	1.65 psia		Deliverabi	ility			Mcfd @ 14.65 ps	sia
The	undersigne	ed authority.	on behalf of the	e Company.	states that h	ie is duly au	thorized	to make th	ne above repo	ort and that he ha	as knowledge of
	•	•				•			•		-
, , acis s	audu aitit	zazi ana mat i	and report to the	.5 G. 10 COLLEC		(10		or			,
		Winner	(if any)			_			Envi	Company	
		with the SS	(ii diriy)	,					Fort	Dompany	
	•	•	said report is tru	ue and correc		•			lovember	Company	_

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: 11/30/2012
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.