KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			(See Instru	ctions on Rev	erse Side)				
Op	oen Flow	1		Tool Date					N- 46			
De De	aliverabil	ly		Test Date):				No. 15 023-20174-0	0-00		
Company Noble Energy Inc				,	Lease Wilmer Hilt					v 1-15	/ell Number	
County		Locati	on	Section		TWP		RNG (E/			cres Attributed	
Cheyeni	ne	SE-NW		15		38		42W	••,	ŕ	cres Attributed	
Field Cherry Creek				Reservoir Niobrara				Gas Gat Kinder	hering Conne Morgan	ection	· · · · · · · · · · · · · · · · · · ·	
Completion Date 6/5/1981				Plug Bac 1617'	k Total De	pth		Packer S	iet at			
Casing S 4-1/2"	Size	Weigh 10.5#		Internal (6-1/4"	Diameter	Set at 1650		Perfo 151	rations O'	то 1544'		
Tubing S 2-3/8"		Weigh 4.7#	t	Internal I 1.995	Diameter	Set at 1556		Perfo	rations	То		
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater				Pump Ur Yes	nit or Traveling	Plunger? Yes / No		
Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide				% Nitrogen		Gas Gravity - G _g	
Tubing Vertical C					Oro	ssure Taps			· ·	/Notes C	us) (Barra) Sira	
TOTALOGI E	50p in(11)				716	issule laps				(wieter F	un) (Prover) Size	
Pressure	Challedon.	: Shut in 2/1	7	0 11 at 1	1:00	(1) (2) (1)	T	-			4.1.1.1.	
	•	Started 2/1		o 11 at 1		_				at	•	
Well on L	Line:	Started 2711	2	0 <u> </u>		_ (AM) (PM)	Taken		20	at	(AM) (PM)	
			<u> </u>		OBSERV	ED SURFACE	DATA			Duration of Shut-i	26.75 Hou	
Static /	Orific	Circle one: Meter	Pressure	Flowing	Well Head	Casi	•		Tubing			
Dynamic Property	Size (inche	Prover Pressu		Temperature t	Temperatu	Wellhead F (P _w) or (P,			ad Pressure r (P _{r.}) er (P _{e.})	Ouration (Hours)	Liquid Produced (Barrels)	
<u> </u>	,	psig (Pm)	Inches H ₂ 0	,		osig	psia	psig	pşia			
Shut-In	<u> </u>					112						
Flow	<u> </u>											
	 -		, -		FLOW ST	REAM ATTRI	BUTES					
Plate	_	Circle one: Mater or	Press Extension	Gra	•	Flowing	Devi		Metered Flov	W GOR	Flowing	
Coeffied (F _b) (F		Prover Pressure	Path	Fac F		Temperature Factor		ctor	R (Mcfd)	(Cubic Fee Barrel)	fluid Gravity	
Mcfc		psia	* 'm^''		,	F,,	<u>'</u>	ρ¥	(MCG)	Darren	G_	
				(OPEN FL	OW) (DEL	IVERABILITY)	CALCUL	.ATIONS	<u></u>	(P. \)	= 0.207	
(P _e) ² =		: (P _w) ² =	<u> </u>	P ₄ =		_% (P	' _a - 14.4) +	14.4 = _	;	(P _a)		
(P _e)²-((P)2	(P ₂) ² · (P ₂) ²	Choose formula 1 or 2 1. P _e - P _s 2	tOG or	Γ –		ssura Curve		Г٦		Open Flow	
(P _a) ² - (- 1	(, ', , ', ')	2. P ₂ · P ₃	formuta 1. or 2.	ı		e="n" or	. n x	rog	Antilog	Deliverability	
(P _a)2- ((P _a) ^a		divided by: P. 2 - P.	and divide by:	P. 3 - P. 3		signed ard Slope			,	Equals R x Antilo (Mcfd)	
					-							
			<u></u>	1	- ·			_		_		
		<u> </u>		<u> </u>	-	_ !				<u></u>		
Open Flow Mcfd © 14.65 psi				.65 psia	psia Deliverability				Mcfd @ 14.65 psia			
The	undersiç	gned authority, o	n behalf of the	Company,	states that	he is duly au				ort and that he ha	s knowledge of	
the facts s	stated th	erein, and that s	aid report is tru	a and correc	t. Execute	ed this the 28	3	day of _	December		, 20 _11	
					RE(CEIVED /	Ok.	2111	/ Son	E m		
		Witness (if any)			7		nic	// For	Company	<u> </u>	
		For Comm	nission		JAN	1 7 2012		¥	V Cha	icked by		

KCC WICHITA

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator_Noble Energy Inc
and that the fore correct to the bes of equipment insta I hereby requ	poing pressure information and statements contained on this application form are true and 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
	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/20/2011	Signature: <u>Ckeyl</u> folion Title: <u>Regulatory</u> Analyst if

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.

RECEIVED
JAN 1 7 2012
KCC WICHITA