KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Inst	ructio	ons on Reve	rse Side)					
Open Flow				Test Date	Test Date: API No. 15										
Del	iverabilty									15-	181-20445-0	0-00			
Company Noble Energy Inc						Lease P Helman					24-24	Well Number 24-24			
County Location Sherman SE-NE-SE-SW				Section 24			TWP 6S		RNG (E/W) 40W			Acres Attributed			
Field Goodland					Reservoir Niobrara				Gas Gat Kinder	ction	RECEIVED				
Completion Date 8/11/2006				Plug Baci 1486'	Plug Back Total Depth 1486'				Packer S	Set at		DEC 0 5 2012			
7", 4-1/2'						Internal Diameter 9-1/2", 6-1/8"			Set at 469', 1528'		Perforations 1362'		KC	C WICHI	
Tubing Size Weight 2-3/8" 4.7#				Internal D 1.995	Diameter	•	Set at		Perforations		То				
				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes							
	······································	nnulus / Tubir	ıg)		% C	% Carbon Dioxide				% Nitrogen Gas			s Gravity - G _g		
Tubing															
Vertical D	epth(H)					F	ress	ure Taps				(Meter I	Run) (P	rover) Size	
Pressure	Builđup:	Shut in _9/2	26	20	12 at 8	:00	((AM) (PM) T	Taken		20	at		(AM) (PM)	
Well on Li	ine:	Started 9/2		20	12 at 8	:15	((AM) (PM) T	Taken		20	at		(AM) (PM)	
						OBSE	RVFI	D SURFACE	DATA			Duration of Shut-	in 24	Hours	
Static /	Orifice	ze Prover Pressur		Pressure	Flowing	Well Head		Casing		Tubing					
Dynamic	Size			Differential in	Temperature	Temperature		Wellhead Pressure (P _w) or (P ₁) or (P _c)			ead Pressure r (P,) or (P _c)	Duration (Hours)	1 .	id Produced (Barrels)	
Property	(inches)	psig (Pm)		Inches H ₂ 0	t	t		psig	psia	psig	psia		 		
Shut-In								56							
Flow															
						FLOW	STR	EAM ATTRIE	BUTES						
Plate Coeffieci (F _b) (F Mcfd	ent ,) /	Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{ft}		Fa	viation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	eet/	Flowing Fluid Gravity G _m	
(D.)2		. (12.)2			•			ERABILITY) 6 (P	CALCUL - 14.4) +			(P _a)	$0.2^2 = 0.3$	207	
(P _c) ² =			Cho	ose formula 1 or 2.			<u>=-</u>	Backpress			 	/, q/	T	pen Flow	
(P _c) ² - (9	P _a) ²	(P _c) ² - (P _w) ²		1. P _c ² -P ₀ ²	LOG of formula			Stope = "n"		n x LOG		ADTIIOO I		liverability	
or (P _c) ² - (F	P _d) ²			2. P _c ²-P _d ² (ed by: P _c ²-P _g ²	1. or 2. and divide by:	P ₀ 2 - P	2	Assigned Standard Slope				*	Equal	s R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.65 p						psia Deliverability			lity	Mcfd @ 14.65 psia					
The	undersia	ned authority.	on b	ehalf of the	Company.	states th	nat h	e is dulv aut	horized	to make t	he above repo	rt and that he h	as kno	wledge of	
	_	rein, and that												20 12	
<u></u>	.	Witness	(if an	y)		······································	_	_	411. 1		For C	Company			
		F0						_			Cha	cked by		<u>.</u>	
		For Con	nmissio	on							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 P Helman 24-24 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 mct/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
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.