KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

_	: en Flo liverab				Test	(a		ructi	ions on Rev	verse Side	Á	.PI No 5-02	o. 15 3-21172	·-nn-	00			
Company Noble Er		Inc							Lease Dunbar		· · · · · · ·	0 02		. 00	22-13	Well Nu	ımber	
County Location Cheyenne NE-NE-SE-NW					Sec 13	tion			TWP 2S	RNG (E/W) 39W					Acres Attributed			
Field Cherry Creek						Reservoir Niobrara					Gas Gathering Connect Southern Star			ion				
Completion Date 12/5/08					•	Plug Back Total Depth 1409'					Packer Set at							
Casing Size Weight 7", 4 1/2" 17#, 11.6#							Diameter 6 1/4"		Set a 189'	Perforations 1222'				то 1260'				
Tubing Size Weight 2 3/8" 4.7#						rnal E	Diameter	,	Set a	Perforations				То				
Type Completion (Describe) Single (gas)					Туре	Type Fluid Production Saltwater					Pump Unit or Traveling Plunger? Yes				unger? Yes	? Yes / No		
Producing Thru (Annulus / Tubing)						% Carbon Dioxide					% Nitrogen				Gas G	Gas Gravity - G		
Tubing Vertical D	epth(l	1)				•	F	ress	sure Taps		·				(Meter	Run) (P	rover) Size	
,						459 40.00			$\overline{}$	20								
							OBSE	RVE	D SURFACE	E DATA				Di	uration of Shu	t-in_24	Hours	
Static / Dynamic Property	c Size		Circle one: Meter Prover Press psig (Pm)	Different	in t		Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)			Duration (Hours)		Liquid Produced (Barrels)		
Shut-In		psig (Pm) Inches H ₂ 0		20				psig psia 62		psi	g	psia						
Flow																		
<u> </u>		· · · · · · ·		<u> </u>			FLOW	STR	EAM ATTR	IBUTES					1		1	
Plate Coefficient (F _b) (F _p) Mcfd			Prover Pressure		Press Extension P _m x h		Gravity Factor F _g		Temperature F		viation Metered Flor actor R F _{pv} (Mcfd)		low	GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m		
					(OPE	N EL		:111/	ERABILITY)	CALCIII	ATION							
(P _c) ² =		<u>_:</u>	(P _w)² =	=	•	P _d =	• •	9		, oneoo. , - 14.4) +			<u> </u>			$()^2 = 0.2$ $()^2 = $	207 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _e) ² - (P _w) ²		1. P _c ² - P 2. P _c ² - P divided by: P _c ²	2 LC 101 2 1.	LOG of formula 1. or 2. and divide by:			Backpre: Slop As: Stand	e n x L(.og []		Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)		
																-		
Open Flor				Mcfd @	14:65 psia				Deliverab	ility				 Mo	:fd @ 14.65 p	sia		
The u	unders			on behalf of	the Comp	any, s			e is duly au	uthorized t					and that he h		rledge of	
the facts s	tated t	herei	in, and that s	aid report is	true and o	orrec	t. Execu	uted	this the 16	3	day of	Dec	ember			CC	20 13 WICHIT	
			Witness	(if any)				_	_				F	or Com			3 1 2013	
			For Com	nission				_	_				С	hecked) by		ECEIVED	

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 Dunbar 22-13 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.
16 Date: <u>12/18/13</u>
Signature: Completions Supervisor

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.