KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:		•		(See Instruct	tions on Rev	rerse Side	9)				
= '	en Flo liverat				Test Date) :				No. 15 023-21051-(00-00		
Company Noble E		Inc					Lease Keller Fa	arms			12-17	Well Number	
County Cheyenne			Location NE-NW-SW-NW		Section 17		TWP 2S		RNG (E/W) 38W			Acres Attributed	
Field Cherry Creek				Reservoir Niobrara				Gas Gathering Connection Southern Star		ection			
Completi 12/1/200		te			Plug Bac 1467'	k Total Depi	h		Packer S	Set at			
Casing Size 7", 4-1/2"			Weight 17#, 10.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 292', 1511'		Perforations 1325'		т _о 1363'		
Tubing Size 2-3/8"		•	Weight 4.7#		Internal Diameter 1.995		Set at 1384'		Perforations		То		
Type Cor Single (n (D	escribe)		Type Flui Saltwa	d Production	1	,	Pump U	nit or Traveling	Plunger? Yes	/ No	
Producing	g Thru	(An	nulus / Tubing)	% C	arbon Dioxi	de		% Nitrog	jen	Gas Gr	avity - G _e	
Vertical E	Depth(l	1)	-			Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu	D:	Shut in	<u> </u>	0 11 at 1	0:15	(AM) (PM)	Taken	•	20	at	(AM) (PM)	
Well on L		•	Started 4/15		0 11 at 7		_				at		
					•	OBSERVE	D SURFACE	DATA			Duration of Shut-	in 33 Hour	
Static / Oynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	perature (P_w) or (P_1) or		Wellhe	fubing ad Pressure r (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			P 5/ g (,)	monos rigo			165	psia	psig	psia			
Flow													
			- I			FLOW STR	EAM ATTRI	BUTES				<u> </u>	
Plate Coeffiecient (F _a) (F _p) Mcfd		Pro	Circle one: Meter or ever Pressure psia	Press Extension P _m x h	Gravity Factor F _g		Temperature Fa		viation Metered Flor actor R F _{pv} (Mcfd)		w GOR (Cubic Fed Barrel)	Flowing Fluid Gravity G _m	
													
(P _c) ² =		_ :	(P _w) ² =	:	(OPEN FLO		ERABILITY) % (P	CALCUL - 14.4) +		:	(P _a) ⁽ (P _a)	= 0.207 =	
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(F	P _e) ² - (P _w) ²	1. P _c ² - P _c ² 2. P _c ² - P _c ² wided by: P _c ² - P _c ²	LOG of formula 1. or 2. and divide	P.2 - P.2	Backpres Slop 	sure Curve e = "n" origned urd Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					1				_				
Open Flo	 w			Mcfd @ 14.	 65 psia	· -	Deliverabi	litv			Mcfd @ 14.65 psi		
		igned	authority, on	•		tates that h			o make th		rt and that he ha	·-·	
the facts s	tated t	herei	n, and that sa	id report is true	and correct	t. Executed	this the 18		day of N	ovember	lo Luc	, 20 <u>11</u>	
			Witness (if	any)			_			1960	company	UECEINED	
			For Commi	ssion			_			Chec	ked by	JEC 13 201	

and that t	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc. The foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records tent installation and/or upon type of completion or upon use being made of the gas well herein named.
l here	by request a one-year exemption from open flow testing for the Keller Farms 12-17
	on the grounds that said well:
	(Check one) is a coalbed methane producer
	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 furth	ner agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as n	ecessary to corroborate this claim for exemption from testing.
Date: 11	18/2011

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

DEC 13 2011

KCC WICHITA