KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:						(See inst	ructions on H	everse Siu	e <i>)</i>				
	en Flo iverab					Test Date) :				No. 15			
Company Noble Er								Lease Keller	Farms	15-	023-21065-0		Well Number	
County Location				Section 17		TWP 2S			W)	Acres Attributed				
Cheyenne SW-NW-SW Field					Reservoir			38W Gas Gathering Connection RECEIVI						
Cherry Creek Completion Date				Niobrara Plug Back Total Depth				Souther S	rn Star		DEC OF			
12/1/2008				1445'	K IOIAI L	epin		FACKER	561 at		DEC 05 2			
Casing Size Weight 7", 4-1/2" 17#, 10.5#				Internal (9-7/8",			Set at Perforation 248', 1489' 1294'			™ 1320'	RECEIVE DEC 0 5 2 KCC WICHI			
Tubing Size We			Weigh	•		Internal Diameter 1.995			Set at 1384'		rations	То		
Type Completion (Describe)				Type Flui			Pump Ui	nit or Traveling	Plunger? Yes	/ No				
Single (gas) Producing Thru (Annulus / Tubing)					Saltwater % Carbon Dioxide				jen	Gas Gı	ravity - G _a			
ubing													- 10	
ertical D	epth(l	1)					Р	ressure Taps				(Meter	Run) (Prover) Size	
ressure	Buildu	 ip:	Shut in 9/1	1	20	12 at 1	0:00	(AM) (PN	l) Taken		20	at	(AM) (PM)	
Vell on Line: Starte			Started 9/1			12 12:00		(AM) (PM	(AM) (PM) Taken		20 at		(AM) (PM)	
							OBSEE	RVED SURFA	CE DATA			Duration of Shut	-in 26 Hours	
Static / Orifico Dynamic Size		ice	Meter Prover Pressure		Pressure Differential	Flowing	Well He	ad C	asing		Tubing	Duration (Hours)	Liquid Produced	
					in Inches H ₂ 0	Temperature t	Tempera t	(P _w) or	(P ₁) or (P _c)	(P _w) o	ead Pressure r (P _i) or (P _c)		(Barrels)	
hut-In					mones 11 ₂ 0		:	222	psia	psig	psia			
Flow	•••								+	 				
							FLOW	STREAM ATT	RIBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		■ 1. 1 × 1 × 1 × 1		vity. tor	Flowing Temperature Factor F ₁₁	' ғ	viation actor F _{pv}	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	eet/ Fluid Gravity	
			· · · · · · · · · · · · · · · · · · ·											
						(OPEN FL	OW) (DE	LIVERABILIT	Y) CALCU	LATIONS)2 = 0.207	
_c) ² =					ose formula 1 or 2:				(P _c - 14.4)		: - 7	(P _d))2 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	(P _c) ² - (P _w) ²		1. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_d^2$ 1. or 2. and divided by: $P_c^2 - P_w^2$ by:		P _c ² - P _w	2 S	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
pen Flo	N	L			Mcfd @ 14.	65 psia		Deliver	ability	•		Mcfd @ 14.65 ps	sia	
		-	•					•			•	ort and that he h	as knowledge of	
								_						
			Witness	(if an	<i>(</i>)						For	Company		
			For Com	missio	วก			_			Che	cked by		

exempt status u and that the for	der penalty of perjury under the laws of the state of Kansas that I am authorized to request order Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc egoing pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records
of equipment ins	stallation and/or upon type of completion or upon use being made of the gas well herein named. uest a one-year exemption from open flow testing for the Keller Farms 13-17 grounds that said well:
I further agr	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 ee to supply to the best of my ability any and all supporting documents deemed by Commissionary to corroborate this claim for exemption from testing.
Date: <u>11/30/20</u>	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.