KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:	OIL	1 0 01	(S	ee Instruct	ions on Re	verse Side	e)	LINDILII		
	en Flow			Test Date:				API	No. 15		
De	liverabilt	y							023-21198-0		
Company Noble E		, Inc.				Lease Keller F	arms			43-18	Vell Number
County Cheyer	ne	Locat E2-W2	ion -NE-SE	Section 18		TWP 2S		RNG (E 38W	/W)	ļ	Acres Attributed
Field		iobrara Gas A	.rea	Reservoir Niobrara					thering Connern Star via F	ection Record Compres	ssor
Completic 1/8/2009			····	Plug Back 1442'	Total Dept	h		Packer	Set at		
Casing Si 7", 4-1/		Weigh 17#,	11.6#	Internal Diameter 9-7/8", 6-1/4"		Set at 252', 1483'		Perforations 1282'		To 1320'	
Tubing Si 2-3/8"		Weigh 4.7#		Internal Di	ameter		Set at Perforation 1336'		rations	То	
		(Describe)		Type Fluid Saltwate		1		Pump U	nit or Traveling	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing) Tubing			% Ca	de		% Nitrog	gen	Gas Gra	Gas Gravity - G _g		
Vertical D	epth(H)				Press	sure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildup:	Shut in	2/ 20	10 at 9:3	30	(AM) (PM)	Taken		20	at	(AM) (PM)
Well on L	ine:	Started 4/2		10 at 3:3		(AM) (PM)				at	
					OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n 29 Hours
Static / Dynamic Property	Orifice Size (inches	Meter Prover Press	Pressure Differential in Inches H ₂ 0	· 1	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In			2			235	psia	pang	pola		
Flow											
				<u> </u>	FLOW STR	EAM ATTE	RIBUTES		<u> </u>		
Plate Coefficient (F _b) (F _p) F Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension P _m x h	l .	Factor		Flowing Deviation perature Factor F _{tt} F _{pv}		Metered Flow R (Mcfd)	v GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G _m
				(OPEN FLO	W) (DELIV	EDARII ITV	() CAL CITI	ATIONS			
(P_) ² =		: (P) ² =	: :	P _d =			P _c - 14.4) +		:	(P _a) ⁵	2 = 0.207 2 =
(P _c) ² - (I	P _a) ²	$ (P_{w})^{2} = $		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Slandard Slope		e n x l OG		Antilog De	Open Flow Deliverability Equals R x Antilog (Mcfd)
			c w								
				<u> </u>		<u> </u>	L-11:4.			M-64 @ 44 05	
Open Flo			Mcfd @ 14.6	•		Deliveral				Mcfd @ 14.65 psi	
	_	-	on behalf of the	· ·				to make t day of <u>A</u>	he above repo August	ort and that he ha	s knowledge of, 20 10
, 3		wire trick o						- ي.ر. المممم	In K	arnet	RECEIV
		Witness	(if any)			•			For	Company	AUG 1 9
	-	For Com	mission						Che	cked by	— AUG I 3

	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request							
	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.							
	going pressure information and statements contained on this application form are true and							
correct to the bes	t 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.							
I hereby requ	est a one-year exemption from open flow testing for the Keller Farms 43-18							
gas well on the g	rounds that said well:							
(Chec	cone)							
	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 agre	e to supply to the best of my ability any and all supporting documents deemed by Commission							
	as to correspond this claim for examption from testing							
staff as necessa	y to corroborate this claim for exemption from testing.							
staff as necessa	y to corroborate this claim for exemption from testing.							
staff as necessa Date: 8/17/10	y to corroborate this claim for exemption from testing.							
	y to corroborate this claim for exemption from testing.							
	y to corroborate this claim for exemption from testing.							
	Signature: Jamifer Barnett							
	Signature: Jamifer Barnett							

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.