KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:						(See Ins	struct	ions on Rev	erse Side	9)				
	en Flo					Test Dat	e:				AP	l No. 15			
	liverab	ilty									15	-023-21126-	00-00		
Company Noble E		Inc							Lease Keller Fa	ırms			32-12	Vell Nu	ımber
County Cheyenr	ne		Loca N2-SV		W-NE	Section 12			TWP 2S		RNG (E 39W	:/W)	,	Acres A	Attributed
Field Cherry C	Creek					Reservoi Niobrar						thering Conn ern Star	ection		
Completic 11/13/20		e				Plug Bac 1403'	k Total	Dept	h		Packer	Set at		•	
Casing S 7", 4-1/2			Weig 17#,		#	Internal : 9-7/8",			Set at 170',	1447	Perf 124	orations 3	то 1268'		
Tubing Si 2-3/8"	İΖθ		Weig 4.7#			Internal I 1.995	Diamete	ır	Set at 1286		Perf	orations	То		
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			1	Pump Un Ye s		nit or Traveling	Plunger? Yes	/ No		
Producing Thru (Annulus / Tubing) Tubing					% Carbon Dioxide				% Nitro	gen	Gas Gravity - G				
Vertical D	epth(H)			·			Press	ure Taps				(Meter F	lun) (P	rover) Size
Pressure	Buildu	p:	Shut in 3/	1	2	11 at 2	:15		(AM) (M)	Taken		20	at		(AM) (PM)
Well on L	ine:	;	Started 3/2	2	20	11 at 2	:20		(AM) PM	Taken		20	at	(AM) (PM)
							OBSE	RVE	D SURFACE	DATA	•		Duration of Shut-i	_n 24	Hours
Static / Dynamic Property	Orific Size (inche	,	Circle one: Meter Prover Press psig (Pm)	ure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well H Tempera		Casir Wellhead F (P _*) or (P ₁	ressure or (P _e)	Wellh	Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liqui	d Produced Barrels)
Shut-In			P-15 (1 111)						psig 190	psia	psig	psia			
Flow													·		
	-						FLOW	STR	EAM ATTRII	BUTES					
Plate Coeffieci (F _b) (F Mcfd	ent ,)		Circle one: Meter or ver Pressure psia		Press Extension P _m xh	Gran Fac F	tor	Te	Flowing emperature Factor F _{II}	Fa	iation ctor r pv	Metered Flor R (Mcfd)	W GOR (Cubic Fee Barrel)	nt/	Flowing Fluid Gravity G _m
	ŀ			<u></u>		(ODEN EI	O40 (DI		- DADII ITV	<u> </u>	4T10N0				
(P _c) ² =		_:	(P _w) ² :	(OPEN FLOW) (DELI' : P _d =				%	·	- 14.4) +		:	$(P_a)^2 = 0.207$ $(P_a)^2 = $		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P	(P _c) ² · (P _w) ²		se formula 1 or 2: , P ₀ ² - P ₀ ² , P ₀ ² - P ₀ ² of by: P ₀ ² - P ₀ ²	LOG of formula 1. or 2. and divide by;		2	Backpressure Curve Slope = "n"		l n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
									<u></u>						
Open Flov					Mcfd @ 14.6				Deliverabil	•			Mcfd @ 14.65 psia		
									is duly aut this the _18	norized to		ne above repo lovember	irt and that he has		ledge of
								_	(K	ryl	Pok	 _	REC	
			Witness					_			1	, 	Company	EC	1 3 2011
			For Come	nissior	1							Che	red by		

l d	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exemp	t status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and tha	at 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 equi	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	ereby request a one-year exemption from open flow testing for the Keller Farms 32-12
gas we	Il 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
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission
	necessary to corroborate this claim for exemption from testing.
Dato: 1	11/18/2011
Date	
	Signature: Clery Johnson
	Title: Regulatory Analyst II
	Tiug.

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.

DEC 13 2011