KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruc	tions on Re	verse Side)					
Open Flow Deliverabilty				Test Date:				API No. 15 15-023-20549 ~ 0000					
Company Noble Energy Inc				Lease Zweygardt			ırdt				Well Number 13-32		
County Location Cheyenne NWSW				Section 32	•	TWP 3S			RNG (E/W) 41W		Acres Attributed		
Field Cherry Creek				Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan					
Completion Date 5/23/2004				Plug Bac 1595'	k Total Dep	oth	Packer Set at						
Casing Size Weight 7", 4-1/2" 20#, 10.5#			#	Internal D 9-7/8",			Set at 290', 1638'		ations	то 1486'			
Tubing Size Weight 2-3/8" 4.7#				Internal E 1.995	Diameter		Set at 1562'		ations	То			
Type Completion (Describe) Single (gas)				Type Flui Saltwa	d Productio ter	en	Pump Unit or Traveling Yes			g Plunger? Yes / No			
Producing Thru (Annulus / Tubing) Tubing			_	% C	arbon Diox	ide	e		en	Gas Gravity - G			
Vertical Depth(H)				Pressure Taps				(P			(Meter Run) (Prover) Size		
Pressure Build	20	20_13 at 3:00 PM			(AM) (PM) Taken		20	al		(AM) (PM)			
Well on Line:	Started _	10/25)/25 ₂₀ 1		13 at 4:00 PM		Taken	20		at	(AM) (PM		
					OBSERVE	ED SURFAC	E DATA			Duration of Shut	_{in 25}	Hours	
Dynamic Si	fice ze hes) Circle Met Prover Pi	er C	Pressure Differential in nches H ₂ 0	Flowing Well He Temperature Tempera		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure $(P_w) \circ (P_i) \circ (P_e)$		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	poly (1,	iches 1120			psig 80	psia	psig	psia		+		
Flow													
				,	FLOW ST	REAM ATTE	RIBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressu psia	Meter or Exter		Factor		Flowing Temperature Factor F _{ft}		Deviation Metered Factor R F _{pv} (Mcfc		GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
P _c) ² =	; (P	")² =	:	(OPEN FL		VERABILITY	') CALCUL P _c - 14.4) +		:	(P _a)) ² = 0.2	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	T	$ \begin{array}{c c} (P_c)^2 - (P_w)^2 & \text{Choose formula 1 or 2:} \\ (P_c)^2 - (P_w)^2 & 1. \ P_c^2 - P_a^2 \\ 2. \ P_c^2 - P_d^2 \\ \text{divided by:} \ P_c^2 \cdot P_w^2 \end{array} $		LOG of formula 1. or 2. and divide P2_P2		Backpressure Curve Slope = "n"		n x LOG		Antilog	O De	Open Flow Detiverability Equals R x Antilog (Mcfd)	
		<u> </u>		-							-		
Open Flow Mcfd @ 14.65 psia						Deliveral	Deliverability Mcfd				d @ 14.65 psia		
The under	signed authori	ty, on bet	nalf of the	Company, s	states that	he is duly a	uthorized t	o make th	e above repo	rt and that he ha	as knov	vledge of	
ne facts stated	therein, and th	at said re	port is true	and correc	t. Execute	d this the $\frac{1}{2}$	3	day of _De	ecember			20 13	
	Witt	ness (if any)	·. <u></u>	·					For C	Company	KCC	WICH	
For Commission									Cher	ked by			
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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 Zweygardt 13-32
gas well on the grounds that said well:
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 mct/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. Date: 12/13/2013
Signature: Mulls 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.

KCC WICHITA

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