KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:				C	See Instruc	tions on Re	verse Side	e)				
	en Flov Iiverabi				Test Date	:				No. 15 023-20870-0	00-00		
Company Noble Er		Inc.					Lease Zweyga	ırdt			33-34	Well Nu	ımber
County Location Cheyenne NWSE				Section 34		TWP 3S	TWP		W)	Acres Attributed			
Field Cherry Creek				Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan						
Completion Date 2/7/2008			Plug Bad 1447'	k Total Dep	oth		Packer Set at						
Casing Size Weight "", 4-1/2" 17#, 10.5#			5#	Internal C 9-7/8",			Set at 176', 1490'		rations O'	то 1370'		· · · · ·	
Tubing Size Weig 2-3/8" 4.7#			ght		Internal D			at	Perforations		То		
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater				Pump Ur Yes	Plunger? Yes	y No			
Producing Thru (Annulus / Tubing)					arbon Diox	ide			Rod P	Gas Gravity - G		G ₀	
Fubing Vertical D	epth(H)		· · · · · · · · · · · · · · · · · · ·		Pres	ssure Taps				(Meter F	Run) (P	rover) Size
Pressure	Buildur	o: Shut in3	20	2	0_13_at_1	0:00	(AM) YPM)	Taken		20	at		(AM) (PM)
Well on Li	•	Started 3/			0 13 at 1						at		,
						OBSERVI	ED SURFAC	E DATA			Duration of Shut-	in 25	.75 Hours
Static / Orifice Dynamic Size Property (inches		Meter Prover Pres		Pressure Differential in	Flowing Well Head		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	(1110311	psig (Pr	1)	Inches H ₂ 0	•	•	psig 81	psia	psig	psia		<u> </u>	
Flow				i								 	
1						FLOW ST	REAM ATTR	IBUTES				<u>'</u>	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Meter or Prover Pressure		Grav Fac	tor	emperature Fac		riation Metered Flow actor R F _{pv} (Mcfd)		w GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravily G _m
P _c) ² =		_: · (P _w)	· =	:	(OPEN FL	OW) (DELI	VERABILITY	') CALCUL P _c - 14.4) +		:	(P _a) ⁽	² = 0.2 ² =	207
(P _c) ² - (F	P _a) ²	(P _c) ² - (P _y) ²		ose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpre Slo As	essure Curve pe = "n" - or ssigned tard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			<u> </u>										
Open Flov	<u> </u> w		<u> </u>	Mcfd @ 14.	65 psia		Deliverat	oility			Mcfd @ 14.65 psi	a	
		gned authority,	on b			states that			to make th		ort and that he ha		vledge of
ne facts si	tated th	erein, and that	said	report is true	e and correc	t. Execute	d this the $\frac{2}{}$	6	day of _C	ecember		······································	20 13 .
		Witnes	s (if an	у)	·		-			For	Company	KC	C WIC
		For Co	mmissk	on			-			Che	cked by		
												Ut	C 3 1 20
												i	RECEIVE

and that the fore correct to the bes of equipment inst	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 tof 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. est a one-year exemption from open flow testing for the Zweygardt 33-34
	rounds that said well:
staff as necessa	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 12/26/13	Signature:

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

DEC 3 1 2013