Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	:				· (-	See Instru	ictions on Rev	verse Side))					
= :	en Flow				Test Date) :		•	API I	No. 15	*			
∐ De	liverabilt	у							15-0	23-21050-0	0-00			
Company Noble Er		nc					Lease Zweyga	ırdt			11-6	Well Nu	mber	
County Location Cheyenne E2-E2-NW-NW			Section 6		TWP 4S			RNG (E/W) 41W		Acres Attributed				
Field Cherry C	reek				Reservoir Niobrara					ering Conne n Star/Kinde				
Completic 7/31/200					Plug Back 1567'	k Total De	pth		Packer Se	et at		•		
Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal E 9-7/8",			Set at 224', 1610'		Perforations 1410'		то 1450'				
Tubing Size Weight 2-3/8" 4.7#			Internal E		Set a	Set at 1465'		Perforations		То				
		(Describe)				d Producti			Pump Uni Yes	t or Traveling	Plunger? Yes	/ No		
Producing		Annulus / Tub	ping)			Carbon Dio	xide		% Nitroge	en	Gas G	ravity - G	9	
Tubing Vertical D	epth(H)	<u></u>				Pre	essure Taps				(Meter	Run) (Pr	over) Size	
Pressure	Buildup	Shut in 3	/16	2(0 11 at 1	1:30	(PM)			20	at	(AM) (PM)	
Well on Line: Started 3/17			/17	11 2:00			(AM) (PM)	_						
	· · · · · · · · · · · · · · · · · · ·	<u> </u>				OBSERV	/ED SURFACI	E DATA	······································	· · · · · · · · · · · · · · · · · · ·	Duration of Shu	26.	5 Hours	
Static / Dynamic Property	Orifice Size (inches	Prover Pre	Diff.	essure erential in nes H ₂ 0	Temperature Temperatur		Malihaad Praecura		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In				2			152	psia	paig	psia				
Flow														
						FLOW ST	TREAM ATTR	IBUTES			ju. u. 1887			
Plate Coefficcient (F _b) (F _p) Mcfd		Meter or Exte		ress ension P _m x h	Gravity Factor F _g		Flowing Temperature Factor F ₁₁	Fa	Deviation Metered R Factor R F _{pv} (Mcfd)		(Cubic F Barre	eet/	Flowing Fluid Gravity G _m	
					(0.05.1) 51	OW) (DE)) CAL CIU	ATIONS					
P _c) ² =		: (P _w)	² =	:	P _d =		IVERABILITY	P _c - 14.4) +		:) ² = 0.2 ¹) ² =	07 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1.		pose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _c ² 1. or 2. and divide by:		Slop Ass		essure Curve pe = "n" - or ssigned dard Slope	l n x L	og []	Antilog	Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					1					•				
Open Flo			Mcf	d @ 14.6	65 psia	<u> </u>	Deliverab	oility			Mcfd @ 14.65 p	sia		
		ned authority	on behal	f of the	Company, s	states that	he is duly a				rt and that he h	as know	ledge of	
ne facts s	tated the	erein, and tha	t said repo	ort is true	and correc	t. Execute	ed this the 2	1	day of No	ovember		RÉ	CEIVE	
	<u> </u>	Witne	ss (if any)			<u> </u>		CL	enfl	For C	Lusur- Company	DE	2 1 3 2 0	
									//	//			_	

	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
correct to the best	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	st a one-year exemption from open flow testing for the Zweygardt 11-6
gas well on the gro	unds 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 mcf/D to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature: Regulatory Analyst 11

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 ferm must be signed and dated on the front side as though it was a verified report of annual test results.

DEC 13 2011