## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:					(See Instruc	tions on Rev	rerse Side	e)				
	en Flo eliverat				Test Date	<b>9</b> :				No. 15 3-20899-00-	00		
Company Noble E		, Inc					Lease Zweygai	rdt			12-4	Well Nun	nber
County Cheyenr			Locat SW-N		Section 4		TWP 4S		RNG (E/	W)	,	Acres At	tributed
Field Cherry C	Creek	Niol	orara Gas A	∖rea	Reservoi Niobrar					hering Conn Morgan via	ection Lampe Compre	ssor	
Completion 2/2/2008		te			Plug Bac 1413'	k Total Dep	th		Packer S N/A	Set at			·····
Casing S 7", 4-1/2			Weigl <b>20#</b> ,	nt 10.5#	Internal I 9-7/8",		Set a 183',	t , 1456'	Perfo 138	rations 8'	то 1425'		
Tubing Si 2-3/8"	ize		Weigi 4.7#	nt	Internal I 1.995"	Diameter	Set a 1363		Perfo	rations	То		
Type Con Single (	•		escribe)	•	Type Flui Saltwa	d Productio	n		Pump Ur Yes	nit or Traveling	Plunger? Yes	/ No	
Producing Tubing	g Thru	(Anı	nulus / Tubin	g)	% C	Carbon Dioxi	ide		% Nitrog	en	Gas Gra	avity - G	1
Vertical D	epth(F	1)		- "	, , -, -, -, -, -, -, -, -, -, -, -, -,	Pres	sure Taps				(Meter F	Run) (Pro	over) Size
Pressure	Buildu		Shut in 3/5	2	0 09 at 8		(AM) (PM)	Taken		20	at	(A	M) (PM)
Well on L	ine:		Started 3/6	2	0 <u>09</u> at <u>1</u>	:00	(AM) (PM)	Taken		20	at	(A	M) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	<sub>n</sub> _29	Hours
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casir Wellhead F (P <sub>w</sub> ) or (P <sub>t</sub>	ressure	Wellhe	ubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Duration (Hours)		Produced arrels)
Shut-In							170	pola	P5.9	pold			
Flow													
	<del></del>			Τ		FLOW STR	EAM ATTRI	BUTES	ř			····	
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ient ,)		Circle one: Meter or ver Pressure psia	Press Extension	Grav Fact	or 1	Flowing Femperature Factor F <sub>11</sub>	Fa	ation ctor pv	or R (Cubic Feet/		Flowing Fluid Gravity G <sub>m</sub>	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO		ERABILITY)	CALCUL - 14.4) +		:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	= 0.207	7
	2 12	/D		Choose formula 1 or 2			Backpress	sure Curve		ГЛ	, , d/		n Flow
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>d</sub> ) <sup>2</sup>	(1-	<sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	<ol> <li>P<sub>c</sub><sup>2</sup> - P<sub>a</sub><sup>2</sup></li> <li>P<sub>c</sub><sup>2</sup> - P<sub>d</sub><sup>2</sup></li> <li>divided by: P<sub>c</sub><sup>2</sup> - P<sub>w</sub><sup>2</sup></li> </ol>	formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Assi	e = "n" or gned rd Slope	nxL	og	Antilog	Delive Equals F	erability R x Antilog lcfd)
O FI-	<u> </u>												
Open Flov	···			Mcfd @ 14.	os psia		Deliverabil	ity			Mcfd @ 14.65 psia	1	
				n behalf of the aid report is true				h /	/ i	e abeve repo	rt and that he has		dge of
					F	RECEIV	ED	41	1/ 1/	( Ine	a sh		
			Witness (i	f any)		OV 05	_			For C	ompany		
			For Comm	ission		UYUJ				Chan	ked by		

KCC WICHITA

I declare un	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
	ider Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that the fore	egoing pressure information and statements contained on this application form are true and
correct to the be	st of my knowledge and belief based upon available production summaries and lease records
• •	tallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby req	uest a one-year exemption from open flow testing for the Zweygardt 12-4
gas well on the (	grounds that said well:
(Ched	k 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
<b>√</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agr	ee to supply to the best of my ability any and all supporting documents deemed by Commission
_	rry to corroborate this claim for exemption from testing.
staff as necessa	
staff as necessa	
staff as necessa	19
	9
	Signature:
	All Places

## 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.