KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:						(See Instruc	ctions on Rev	erse Sid	'e)					
= .	pen Flo eliveral					Test Dat	e:				1 No. 15 5-023-207	99-00-0	0		
Company Noble		gy,	Inc.					Lease Zweyg a	ardt				12-5	Well Nu	ımber
County Location Cheyenne SW-NW				Section 5		TWP 4S			(W)			Acres A	Attributed		
Field Cherry	Cree	ek N	liobrara	gas	area	Reservoi Niobra					thering Cor r Morgan		ry Cre	ek Cor	npressor
Completi 10/5/20		te				Plug Bac 1624'	k Total Dep	oth		Packer n/a	Set at				
Casing Size 7", 4-1/2"			Weight 17#, 9.5#			Internal Diameter 9-7/8", 6-1/4"		Set at 245' , 1610'		Perforations 139		1396'	то 6' 1434'		
Tubing S n/a	ize		We	ight		internal I	Diameter	Set at		Perforations			То		
Type Cor Single (escribe)			Type Flui Saltwa	d Productio	n		Pump U	nit or Traveli	ng Plunger	? Yes	/ No	
Producing Annulus		(An	nulus / Tul	oing)	· ·	% (Carbon Diox	ide		% Nitro			Gas G	ravity - (3,
Vertical C	Depth(i	1)			·		Pres	sure Taps					(Meter	Run) (Pi	rover) Size
Pressure Well on L			Shut in	112 113	•.	0 08 at 0		AM (PM)			2				AM) (PM) AM) (PM)
							OBSERVE	D SURFACE	DATA			Duration	of Shut	in_4	8 Hours
Static / Dynamic Property	Orifi Siz (inch	е	Circle on Meter Prover Pre psig (Pr	ssure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casir Wellhead F (P _w) or (P _t	ressure	Wellhe	Tubing ead Pressure r (P ₁) or (P _c)	1	ation urs)	1 '	l Produced Barrels)
Shut-in								198							
Flow															
Plate			Circle one:	T	Brass			Flowing	BUTES						<u></u>
Coeffiect (F _b) (F,	ient ")		Meter or ver Pressure psia	,	Press Extension P _m xh	Grav Fact F _g	or 1	Factor	Fa	lation ctor py	Metered FI R (Mcfd)	- 1	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m
											·				
(P _o) ² =		_;	(P _w)	' =	<u> </u>	(OPEN FLO		ERABILITY) % (P _e	CALCUL - 14.4) +		:		(Pa)	² = 0.20	07
(P _c) ² - (F or (P _c) ² - (F		(P	_c)²- (P _w)²	2	ise formula 1 or 2: $ P_c^2 - P_a^2 $ $ P_c^2 - P_d^2 $ $ P_c^2 - P_w^2 $ $ P_c^2 - P_w^2 $	LOG of formula 1. or 2. and divide	P _c ² -P _w ²		= "n" r gned	nxi	og [Antii		Opi Deliv Equals	en Flow verability R x Antilog Vofd)
Open Flow	v				Mcfd @ 14.6	55 psia		Deliverabili	ty			Mcfd @ 1	4.65 psi	a	,
						Company, st	. Executed		1 <u>d</u>	day of	e above rep	ort and the	at he ha		edge of
			Witness	s (if any)	KAN		CEIVED RATIONCOM	HISSIE	levin	For	Company	W		
			For Cor	nmission	1			0 6 2009			Ch	ecked by			

exempt status used and that the forcorrect to the best of equipment in the large of	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request a nder Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. regoing pressure information and statements contained on this application form are true and lest of my knowledge and belief based upon available production summaries and lease records stallation and/or upon type of completion or upon use being made of the gas well herein named. Quest a one-year exemption from open flow testing for the Zweygardt 12-5
	grounds that said well: ck 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
	aree to supply to the best of my ability any and all supporting documents deemed by Commission cary to corroborate this claim for exemption from testing.
	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.