KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:				1	(See Instruc	tions on Re	verse Side	e)				
<u> </u>	pen Flo	w			Test Dat	۵.			ΔF	Pl No. 15			
D	eliverat	oilty			rest But	.				-023-20800-	00-00		
Compan Noble		ду, Ι	Inc.				Lease Zweyga	ırdt			21-5	Well Nur	nber
County Cheyenne			Location NE-NW		Section 5		TWP 4S		RNG (E/W) 41W		Acres Attributed		
Field	Creek	Niol	brara Gas A	rea	Reservoi Niobrar					thering Conn	ection Cherry Creek C	omore	
Completi						k Total Dep	th		Packer		Officity Officer of	ompre	
10/5/20	07				1506'								
Casing Size 7", 4-1/2"			Weigh 17#, 9		Internal Diameter 9-7/8", 6-1/4"		Set at 240', 1551'		Perforations 1380'		то 1452'		
Tubing Size			Weight		Internal Diameter		Set at		Perforations		То		
n/a Type Co	-		escribe)			id Productio	n	······································	Pump U	Init or Traveling	Plunger? Yes	/ No	
Single	·		nulus / Tubing	<u> </u>	Saltwa		ido	~	no % Nitro		C C	it C	•
Annulu	-	(AIII	idius / idoing	i)	% C	Carbon Dioxi	ide		% Nitro	gen	Gas Gra	avity - G	9
Vertical [Depth(H	1)				Pres	sure Taps				(Meter F	Run) (Pro	over) Size
Pressure	Builde	n:	Shut in	3/ 2	10 at 9	:15	(AM) (PM)	Taken		20	at		
Well on L			Started 4/14	4/2			(AM) (PM)				at	-	
											· ·	29	
ſ	1		Circle one:	Pressure	<u> </u>	OBSERVE	D SURFACE		<u> </u>	Tubina	Duration of Shut-i	n <u>29</u> I	Hours
Static / Dynamic	Orifi Siz		Meter	Differential	Flowing Temperature	Well Head Casing Tubing Well Head Wellhead Pressure Wellhead Pressure Duration		Liquid Produced					
Property	(inch	es)	Prover Pressu psig (Pm)	re in Inches H ₂ 0	t	t	1 (P) or (P) or (P) (P) or (P) or (P) (HOUTS)		(B:	arrels)			
Shut-In							140						
Flow													
	· · · · · · · · · · · · · · · · · · ·					FLOW STR	EAM ATTRI	BUTES					
Plate			Circle one: Meter or	Press Extension	Grav	· 1	Flowing Temperature	Dev	ation	Metered Flow	GOR		Flowing Fluid
Coefficient (F _b) (F _p)			ver Pressure	✓ P _m xh	Fact F _g	.01	Factor	· ·	ctor	R (Mcfd)	(Cubic Fee Barrel)	Gravity	Gravity
Mcfd			psià		-		F _{(i}		, , , , , , , , , , , , , , , , , , ,	` '			G _m
								<u> </u>					
(P _c) ² =			(P _w) ² =_		•		ERABILITY)					= 0.20	7
(' c'	T			Chaose formula 1 or 2:	P _d = .		1	<u>- 14.4) +</u>	14.4 = _		(P _d) ²		
(P _c) ² - (I		(P	c)2 - (P _w)2	1. P _c ² -P _a ²	LOG of formula		Slop	e = "n"	n x	LOG	A = 411 = =		n Flow erability
or (P _c)²- (I	P _d) ²			2. P _c ² -P _d ²	1. or 2. and divide	P _c ² - P _w ²	Ass	or igned			Antilog	Equals I	R x Antilog
			- 0	fivided by: P _c ² - P _w ²	by:	L° "	Standa	rd Slope		L			Acfd)
Open Flo	L w			Mcfd @ 14.6	55 psia		Deliverabi	lity			Mcfd @ 14.65 psia		
	•	anad	authority on		· ·	totoo that h			male H		<u></u>		
				id report is true					day of		rt and that he has		
uie iacis \$	iaieu ir	iereil	i, anu mat sa	iu report is true	anu correct				uay or		7 -	, 20	o <u>10</u> .
			Witness (if	any)	- KANSAS (RECEIVE CORPORATION	N COMMISS <u>io</u>	n X	MM	Jl~ Force	Dame	\mathcal{M}_{-}	
			***			JUL 06		0		\			
			For Commis	ssion		JUL VO	F010			Chec	ked by		

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	t the foregoing pressure information and statements contained on this application form are true and
	to the best of my knowledge and belief based upon available production summaries and lease records
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	reby request a one-year exemption from open flow testing for the Zweygardt 21-5
	on the grounds that said well:
	(Charle ana)
	(Check one) is a coalbed methane producer
	is a coalbed methalie producer is a coalbed methalie 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
	is not capable of producing at a daily fate in excess of 250 men.
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff as	necessary to corroborate this claim for exemption from testing.
Date: 6	5/30/2010
	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.