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

Type Test	:				(	See Instruct	tions on Re	verse Side	e)				
	en Flov liverabi				Test Date	<b>)</b> :				No. 15 <b>181-2039</b> 5	5-00-00		
Company Noble E		y, I	nc.				Lease Bratch	er			13-19	Well N	umber
County Sherma	an		Location NW-NE	n E-NW-SW	Section 19		TWP 6S		RNG (E/	W)		Acres	Attributed
Field Goodla	nd Ni	obı	ara gas ar	ea	Reservoi <b>Niobra</b>					nering Conne Morgan /	ection Prairie Star		
1/9/200		•			Plug Bac <b>1480'</b>	k Total Dept	th		Packer S <b>n/a</b>	et at			4
Casing Si 7", 4-1/			Weight 20#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at <b>394'</b> , <b>1522</b> '		Perforations 131		то <b>18'</b>		
Tubing Size 2-3/8"			Weight 4.7#	Weight 4.7#		Internal Diameter 1.995"		Set at <b>1361</b> '		Perforations		То	
Type Completion (Describe) Single (Gas)			41.	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? (6) / No Yes - Road Pump					
Producing	Thru	(Anr	nulus / Tubing	<del></del>	% C	arbon Dioxi	de		% Nitrog		Gas Gr	avity -	G,
Annulus													
Vertical D	epth(H	)				Pres	sure Taps				(Meter	Run) (F	rover) Size
Pressure	Buildur	): :	Shut in6/6/	2	08 at 1	0:00	(PM)	Taken		20	at		(AM) (PM)
Well on L	ine:	;	Started 6/9/	20	08 at 4	:00	(AM) PM	Taken		20	at		(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	<sub>in</sub> _78	Hours
Static / Dynamic Property	Orific Size (inche	1	Circle one: Meter Prover Pressur psig (Pm)	l I	Flowing Temperature t	Perature t Temperature $(P_w)$ or $(P_t)$ or $(P_c)$		1 '	id Produced Barrels)				
Shut-In			paig (Fili)	Inches H <sub>2</sub> 0			128	psia	psig	psia			
Flow													
						FLOW STR	EAM ATTR	IBUTES					
Coeffieci	( b) ( p)		Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> xh	Grav Fact F	or	Flowing Temperature Factor F <sub>I</sub> ,		riation actor = pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
					(OPEN FLO	OW) (DELIV	ERABILITY	) CALCUL	ATIONS				
(P <sub>c</sub> )² =		<u>.</u> :	(P <sub>w</sub> ) <sup>2</sup> =	<u> </u>	P <sub>d</sub> =			, <sup>2</sup> - 14.4) +		:		<sup>2</sup> = 0.2 <sup>2</sup> =	207
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>a</sub> ) <sup>2</sup>	(P	c)2 - (P <sub>w</sub> )2	hoose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpre Slop As:	ssure Curve be = "n" orsigned ard Slope	nxi	og 📗	Antilog	O Del Equals	pen Flow liverability s R x Antilog (Mcfd)
Onen Fleu				Na-6-1 @ 4.4.	SE ===i=		Delivereb	::::			4-64 @ 44 05		
Open Flov				Mcfd @ 14.0			Deliverab				Mcfd @ 14.65 psi		
			n, and that said	d report is true	and correct		this the $\int$	oth	o make the	Mark mle "	Ramul		rledge of
			Witness (if a	iny)	()	<u> </u>	%ନ୍ତିର	ć	1	For Co	dimpany"		
			For Commis	sion	<del>b</del>	C U Dave	aus -		<i>-</i>	Chec	ked by		

CONSERVATION DIVISION WICHITA KS

and that the foregoing pres correct to the best of my kno of equipment installation an	A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
of equipment installation an	vulodes and holief based upon available production summeries and lease records
	owledge and belief based upon available production summaries and lease records
I horoby roquest a one	d/or upon type of completion or upon use being made of the gas well herein named.  year exemption from open flow testing for the Bratcher 13-19
rhereby request a one- gas well on the grounds tha	
(Check one)	
	bed methane producer
. =	d on plunger lift due to water
is a soul	rce of natural gas for injection into an oil reservoir undergoing ER
is on vac	cuum at the present time; KCC approval Docket No
is not ca	pable of producing at a daily rate in excess of 250 mcf/D
I further agree to suppl	y to the best of my ability any and all supporting documents deemed by Commission
-	porate this claim for exemption from testing.
Date: 3/6/09	
	Signature: Mamler Barnett

## 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.