

## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST FEB 2 0 2009

	i. Den Flov eliverabi				Test Date	e:	nons on re	sverse Glu	, AP	No. 15  - <b>023-2100</b>	3-00-00		VATION DIVISIO ICHITA, KS	
Company Noble I		y, I	nc.				Lease Workr	man			4	Well   44-31B	Number	
				ocation E-NW-SE-SE		Section 31		TWP 3S		:/W)		Acres	s Attributed	
Field Cherry Creek Niobrara gas area					Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Lampo			e Compr	essor		
Completion Date 6/3/2008				Plug Bac 1607'	Plug Back Total Depth 1607'			Packer <b>n/a</b>	Set at					
Casing Size 7", 4-1/2"			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at <b>302', 1616</b> '		Perforations 14		To 1490'		0'	
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.991"		Set at <b>1,511'</b>		Perforations		Т	Го		
Type Completion (Describe) Single (Gas)			escribe)	Type Fluid Produc Saltwater			on		Pump Unit or Traveling Plunge No - Flowin		Plunger?	er? Yes / No		
Producing <b>Tubing</b>	g Thru	(Anr	nulus / Tubing	)	% (	Carbon Dioxi	de		% Nitro		<del>-</del> 4	Gas Gravity	- G <sub>e</sub>	
Vertical C	Depth(H	)	,			Pres	sure Taps	,			(1	Meter Run)	(Prover) Size	
Pressure	Buildup	o: ;	Shut in	2	08 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on Line:		;	Started 6/18	2	08 at 2	~~ ~~			20 at(					
						OBSERVE	D SURFAC	E DATA			Duration of	f Shut-in	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psla		on Lic	quid Produced (Barrels)	
Shut-in				-			204							
Flow							]	<u></u>	<u></u>					
· · · · · · · · · · · · · · · · · · ·						FLOW STR	EAM ATTR	IBUTES			i			
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P <sub>m</sub> x h	Grav Fac F <sub>s</sub>	tor T	Temperature F		viation Metered Flow actor R F <sub>pv</sub> (Mcfd)		(Ci	GOR (Cubic Feet/ Barrel)		
					(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS			(D.)2 C	) )	
(P <sub>c</sub> ) <sup>2</sup> =		<u>:</u>	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =	9	% (F	ೌ - 14.4) +	14.4 =	:		$(P_a)^2 = 0$ $(P_d)^2 =$		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		thoose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide	formula 1. or 2. and divide   P.2. P.2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		,   0	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd			Mcfd @ 14.	65 psia	Deliverability				1.65 psia					
The t	undersig			behalf of the	Company, s		e is duly au	uthorized to	o make the	ne above reported to the second secon		he has kno	owledge of , 20 <u>09</u>	
			For Commis	sion			-			Chec	ked by		<del></del>	

	ty of perjury under the laws of the state of Kansas that I am authorized to request					
exempt status under Rule	K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.					
and that the foregoing pre	essure information and statements contained on this application form are true and					
correct to the best of my k	nowledge and belief based upon available production summaries and lease records					
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.						
I hereby request a one	year exemption from open flow testing for the Workman 44-31B					
gas well on the grounds th	at said well:					
(Check one)						
is a coa	albed methane producer					
is cycle	ed on plunger lift due to water					
is a so	urce of natural gas for injection into an oil reservoir undergoing ER					
is on va	acuum at the present time; KCC approval Docket No					
is not o	apable of producing at a daily rate in excess of 250 mcf/D					
I for the second of the second						
-	bly to the best of my ability any and all supporting documents deemed by Commission					
statt as necessary to corr	oborate this claim for exemption from testing.					
Date: <u>2/19/09</u>	<del></del>					
	1 -1 0 4					
	Signature: <u>JAMML BAMUTT</u>					
	Title: Regulatory Analyst					

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.