

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FEB 2 0 2009

Type Test: Open Flow Deliverabilty				(See Instructions on Reverse Side)								CONSERVATION DIVISION WICHITA, KS		
									: No. 15 -023-2108	lo. 15 123-21084-00-00				
Company Noble Energy, Inc.				Lease Zweygardt			14			Well Number 4-33B				
County Location Cheyenne NW-NE			en E-SW-SW	Section N 33		TWP 3S		RNG (E/W) 41W			Acres Attributed			
Field Cherry Creek Niobrara gas area				Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Lampe Compressor							
Completion Date 9/2/2008				Plug Back Total Depth 1525'			Packer S n/a	Set at						
Casing Size Weight 7", 4-1/2" 17#, 10.5				Internal 0 9-7/8",			Set at 250', 1569'		Perforations 135		то 52' 1390'			
•			Weight 4.7#		Internal Diameter 1.995"		Set at 1,444'		Perforations		To	0		
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No						
Producing		(Ann	ulus / Tubing)	% C	arbon Diox	ride		% Nitrog	jen	——————————————————————————————————————	as Gravity	- G _e	
Fubing Vertical D	epth(H)				Pre	ssure Taps				(N	/leter Run)	(Prover) Size	
			9/7/		O8								··	
Pressure Buildup:			Shut in 20		08 at 3:20		\triangle	\bigcirc		20 at				
Vell on Li	ne:		Started	20	J at		(AM) (PM)	raken		20	at		(AWI) (FWI)	
			Circle one:	Pressure			ED SURFAC	E DATA	1 ,	Tubing	Duration of	Shut-in	Hours	
Static / Dynamic Property	namic Size		Meter Prover Pressui psig (Pm)	Differential	Flowing Well Head Temperature t t		Wellhead Pressure (P _w) or (P _t) or (P _c)		Wellhead Pressure (P _w) or (P _t) or (P _c) psig psla		Duration (Hours)		quid Produced (Barrels)	
Shut-In			F3 (,,				157	рыа	psig	psia	***************************************			
Flow														
						FLOW ST	REAM ATT	RIBUTES						
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fact F _a	or	Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		(Cu	GOR ubic Feet/ Barrel)	Flowing Fluid Gravity G _m	
					(OPEN EL	OW) (DELIN	/ERABILITY	O CALCUI	ATIONS			45.10		
)2 =		_:	(P _w) ² =_	<u> </u>	•			P _a - 14.4) +		<u></u> :		$(P_a)^2 = (P_d)^2 = $		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ Uvided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		0.8106		Antilog	. 1	Open Flow Deliverability Equals R x Antilog (Mcfd)	
											,,			
Open Flow Mcfd @ 14.65 psia						Deliverability			Mcfd @ 14.65 psia					
		-	-	behalf of the			•	Inh	day of	Tebr	ort and that	he has kno	owledge of	
*******			For Commis				-		/		cked by			

I declare under penalty 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 pressure information and statements contained on this application form are true and
correct to the best of my knowledge 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 Zweygardt 14-33B
gas well on the grounds that said well:
(Check 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
is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate this claim for exemption from testing.
Date: 2/19/09
Signature: <u>JUMufer Bywett</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.