KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

RECEIVED

2010

Type Tes						(See Instru	ctions on R	everse Sid	(e)			SE	EP 0 1 20	
Open Flow Deliverability					Test Dat	Test Date:				API No. 15 15-023-20783-00-00			KCC WICHIT	
Company Noble Energy, Inc.						Lease Zweygardt				320-20100-0		Well Number 34-32		
County Location Cheyenne SW-SE				Section 32		TWP 3S	TWP		E/W)		Acres Attributed			
Field Cherry Creek Niobrara Gas Area					Reservoi Niobrar			- Alleria de la companya del companya de la companya del companya de la companya		thering Conne		Creek Compressor		
Completion Date 9/21/2007					Plug Bac 1549'	Plug Back Total Depth 1549'			Packer Set at					
	Casing Size Weight 7", 4-1/2" 17#, 9.5#				Internal I 9-7/8",	Diameter 6-1/4"		Set at 292', 1589'		Perforations .		To 1456'		
	Tubing Size Weight				Internal I 1.995"		Set	Set at 1486'		Perforations		То		
Type Completion (Describe) Single (Gas)				Type Flui	Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes						
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitro	gen	Gas Gı	Gas Gravity - G _g			
Tubing Vertical D	Pepth(H	1)				Pre	ssure Taps				(Meter	Run) (Prove	er) Size	
Pressure	Builde	n. Shu	4/13/	'2	, 10 _. , 9	:35	(AAA) (DAA)	Takan		20	at	(004		
Well on L	,	p. Shu Star	ted 4/14/	2			- (AM) (PM)				at			
						OBSERV	ED SURFAC	E DATA			Ouration of Shut-	.in 29	Hours	
Static / Dynamic Property	Orific Size (inche	e Pro	rover Pressure In		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _o)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration Liquid P (Hours) (Bar			
Shut-In	•		osig (Pm)	Inches H ₂ 0			psig 160	psia	psig	psia				
Flow														
						FLOW ST	REAM ATTR	IBUTES						
Plate Coeffiect (F _b) (F Mcfd	ent ,)	Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Grav Fact F _s	tor	Flowing Temperature Factor F ₁₁	Fa	iation ctor : pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
					(OPEN FLO	OW) (DELIV	/ERABILITY) CALCUL	ATIONS					
(P _c) ² =		_:	(P _w) ² =	:	$P_d =$, P _c - 14.4) +		;	(P _a);	² = 0.207 ² =		
(P _c) ² - (F or (P _c) ² - (F	P _a) ²	(P _c) ² - (P _w) ²		1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ 2. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide by:	LOG of formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n"		roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flow			Mcfd @ 14.65			psia		Deliverability		Mcfd (⊋ 14.65 psia		
				pehalf of the					make th		and that he ha	s knowledg		
	uigu III	Joini, di	u mai saiu	Toport is title	and correct	LAGGIRO	and the	Λ		1	Bam	H.	•	
			Witness (if an	у)			-			For Cor	mpany			
		***************************************	For Commissi	on			_			Checke	ed by			

	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	oregoing pressure information and statements contained on this application form are true and
orrect to the	best of my knowledge and belief based upon available production summaries and lease records
	installation and/or upon type of completion or upon use being made of the gas well herein named. equest a one-year exemption from open flow testing for the Zweygardt 34-32
	ne grounds that said well:
(C	heck 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
	agree to supply to the best of my ability any and all supporting documents deemed by Commission ssary to corroborate this claim for exemption from testing.
Date: <u>8/30/1</u>	0

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.