KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: (See I								ucti	ons on Rev	verse Side	,	I No. 15				
Deliverabilty									API No. 15 15-023-20778 - 0000							
Company Noble Energy Inc								•	Lease Zweyga		14-32	Well Number 14-32				
County Location cheyenne SWSW					Section 32			TWP 3S		RNG (E/W) 41W		Acres Attributed		Attributed		
Field Cherry Creek				••	Reservoir Niobrara						thering Connector Star/Kinde					
Completion Date 10/2/2007				Plug Back Total Depth 1518'				n Packer Set at								
Casing Size 7", 4-1/2"			Weight 17#, 9.5#			Internal Diameter 9-7/8", 6-1/4"			Set at 279', 1561'		Perforations 1420'		To 1460'	т _о 1460'		
	Tubing Size			ht	Internal Diame						Perforations		То			
Type Completion (Describe)					Type Flui Saltwa		tion	Pump Unit or Traveli Yes		nit or Traveling	Plunger? Yes	/ No	****			
Single (gas) Producing Thru (Annulus / Tubing)						% Carbon Dioxide				% Nitro	gen	Gas G	Gas Gravity - G			
Tubing Vertical Depth(H)							Pı	ess	ure Taps				(Meter	Run) (f	Prover) Size	
<u></u> .			1/3	28		13 3	15 PM						•			
Pressure Buildup: Shut in Well on Line: Started							13 at 3:15 PM ((AM) (PM) Taken (AM) (PM) Taken						
TYCH OH L			Started			U at			(AW) (FW)	iakeii		20 .	ai		(AIVI) (FIVI)	
····							OBSER	VE	SURFACE	E DATA			Ouration of Shut	_{-in} _24	Hours	
Static / Dynamic Property	c Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t		emperature (P		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing ead Pressure or (P ₁) or (P _c)	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	in				2				90 psia		psig psia					
Flow																
							FLOW S	TRE	EAM ATTR	IBUTES			· · · · · · · · · · · · · · · · · · ·			
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	Gravity Factor F _g		Te	Flowing Temperature Factor F ₁₁		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
/D \2 -			/D \2			(OPEN FL	OW) (DEI		•	-) ² = 0.3	207	
$\frac{(P_c)^2 = {(P_c)^2 - (P_a)^2}}{(P_c)^2 - (P_a)^2}$		$ (P_{c})^{2} - (P_{w})^{2} $		Cho	ose formula 1 or 2 1. P _c ² - P _c ² 2. P _c ² - P _c ²	P _d =		1	(P _c - 14.4) - Backpressure Curve Slope = "n"or				(P _d	O De	Open Flow Deliverability Equals R x Antilog	
(F _c)*- (F	-""			divida	fed by: P _c ² · P _w	and divide by:	P.2 - P.2	<u> </u>		signed ard Slope	-				(Mcfd)	
Open Flor	pen Flow Mcfd @ 14.65 psia							Deliverability				Mcfd @ 14.65 psia				
												he above report	and that he ha			
the facts si	tated th	herei	n, and that s	said	report is true	and correc	t. Execut	ed t	this the 18	3	day of	ecember		·	20 13	
			Witness	(if any	y)			-	_			For Co	пралу	(CC	WICHI	
······································		•	For Com	missio	חמ		· · ·	-	_			Check	ed by	DEC	3 0 201 3	

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Incoming pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records llation and/or upon type of completion or upon use being made of the gas well herein named. Est a one-year exemption from open flow testing for the Zweygardt 14-32 bounds that said well:
_	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/18/2013	Signature: Kathle Mills
	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.

CC WICHITA
DEC 3 0 2013
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