KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

oble Energy, Inc. Zweygardt 24-31 outling Location SESW 31 TWP RNG (EM) Acres Attributed held herry Creek Nobbrara Gas Gathering Connection Southern Start/Kinder Morgan completion Date Plug Back Total Depth Packer Set at 1646° assing Size Weight Internal Diameter Set at Perforations To 1/78, 11.6# 9-7/8", 6-1/4" 318', 1681' 1446' 1504' bling Size Weight Internal Diameter Set at Perforations To -3/8" 1,985 1525' Pump Unit or Traveling Plunger? Modernal Plunger. Modernal Plunger. Modernal Plunger. Modernal Plunger. Plunger. Modernal Plunger. </th <th>Type Test:</th> <th>:</th> <th></th> <th></th> <th></th> <th></th> <th>(</th> <th>See Instru</th> <th>uctio</th> <th>ns on Rev</th> <th>erse Side</th> <th>)</th> <th></th> <th>,</th> <th></th> <th></th> <th></th>	Type Test:	:					(See Instru	uctio	ns on Rev	erse Side)		,				
bole Energy, Inc. Zeveygardt Zevalation Section Sec							Test Date	»:						00-00				
heyenne SESW 31 3S 41W Packer Set Service	Company Noble Er		Inc.								dt					Well Nu	mber	
nerry Creek Niobrara Southern Start/Kinder Morgan oraptation Date 17/2008 1846 17/2008 1846 17/2008 1846 1846 1850 17/4, 11.6# 9-7/8*, 6-1/4* 318*, 1681* 1846 1504 1504 1504 1504 1504 1504 1504 1504	County Location									W)		Acres Attributed						
17/2008 1646 internal Diameter Set at Perforations To 1504* 17/H, 11.6# 9-7/8*, 6-1/4* 318*, 1681* 1446* 1504* 1504 17/H, 11.6# 9-7/8*, 6-1/4* 318*, 1681* 1446* 1504* 1504 1505* 1525* 1625	Field Cherry C	reek		,									•		gan			
17#, 11.6# 9-7/8", 6-1/4" 318', 1681' 1446' 1504' 10hg Size Weight Internal Diameter Set at 1 Perforations To 338' 4.7# 1.995 1525' Perforations To 1525' Perforations The Internal Diameter To 1525' Perforations The Internal Diameter To 1525' Perforation Plumper To 1525' Perforation Plum	Completic 6/17/200)				•	k Total De	epth	· · · · · · · · · · · · · · · · · · ·		Packer S	et at				***************************************	
1.995 1.52	Casing Si 7", 4.5"	ize				#									• •			
ingle (Gas) saltwater yes Rod Pump Gas Gravity - G, ordocoling Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, ordocoling Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, ordocoling Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, ordocoling Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, ordocoling artical Depth(H) Pressure Taps (Meter Run) (Prover) Size (Meter Run) (Prover)	Tubing Si 2-3/8"	ze		-	nt							Perfo	То					
Company Comp			(De	escribe)		,						Pump Unit or Traveling Plunger? (Yes) / No yes Red Promp						
Pressure Buildup: Shut in 3/7 20 13 at 8:00 (AMI) (PM) Taken 20 at		Thru	(Anr	nulus / Tubin	g)		% C	arbon Die	oxide	e		% Nitrog	en	1	Gas Gr	avity - (à _g	
Started 3/8 20 13 at 11:00 (AM) (PM) Taken 20 at (AM) (PM)		epth(H)					Pr	essı	ure Taps					(Meter	Run) (P	rover) Size	
OBSERVED SURFACE DATA Duration of Shut-in 27 Hours Sitatic / Oriffice Size Nater Size (nches) Prover Pressure paig (Pm) Flow In Inches H,0 Flow STREAM ATTRIBUTES Flowing Temperature 1 112 Flowing Temperature Prover Pressure Prover Pressure Prover Pressure Prover Pressure Extension Factor Fr. Fr. Fr. Fr. Fr. Fr. Fr. Fr. Fr. Fr	Pressure	Buildup		Silut III					(AM)(PM)	Taken		20	at		((AM) (PM)	
Static / Orifice Size Meter Meter (Inches) Prevaler Pressure Meter (Inches) Prevaler Pressure Prover Pressure (Inches) Prevaler Pressure Prover Prover Prover Pressure Prover Prover Pressure Prover Prover Pressure Prover Prover Pressure Prover Prover Prover Pressure Prover Prover Pressure Prover Prover Prover Prover Pressure Prover Pro	Well on L	ine:		Started 3/8		20	0 at	1:00	_(AM)(PM)	Taken		20	at			(AM) (PM)	
Static Orifice (Inches) Orific		•						OBSER	VED	SURFACE	DATA			Duratio	n of Shut-	in_27	Hours	
Flow The plate The peak The	Static / Dynamic Property	atic / Orifice		Meter Prover Press	eter Differenti Pressure in		Temperature Temperatu		- 1	Wellhead Pressure (P _w) or (P _t) or (P _c)		Wellhead Pressure (P _w) or (P ₁) or (P _c)					1 '	
FLOW STREAM ATTRIBUTES Plate Coefficient (F ₁)(F ₂) Meter or Prover Pressure psia (P ₂) ² = (P ₂) ²	Shut-In										paid	polg	pola					
Plate Coefficient (F _p) (F _p) Rich (F _p) (Rich (Mold)) (P _p) Rich (Mold) (P _p) Rich (Rich (Mold)) (P _p) Rich (Mold) (Rich (Mold)) (Rich (Mo	Flow																	
Coefficient (F _p) (F _p) Prover Pressure psia Full of Factor Factor psia Full of Factor Fac								FLOW S	TRE	AM ATTRI	BUTES			1			7	
P _c) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² = (Coeffied (F _b) (F	ient	Meter or Prover Pressure			Extension		actor T		mperature Factor	perature Factor F		ctor R		(Cubic Feet/		Fluid Gravity	
P _c) ² = : (P _w) ² = : P _d = % (P _c -14.4) + 14.4 = : (P _d) ² = (P _c) ² - (P _w) ² (P _c) ² - (P _c) ² (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c) ² (P _c) ² - (P _c) ² (P _c) ² - (P _c) ² (P _c)					<u> </u>		(OPEN FL	OW) (DEI	LIVE	RABILITY)	CALCUI	LATIONS			(P.)	r ² = 0.2	207	
(P _c) ² - (P _w) ² (P _c	(P _c) ² =		:	(P _w) ² =			———		%	, (P	_e - 14.4) -	+ 14.4 =	:	T	_			
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of e facts stated therein, and that said report is true and correct. Executed this the 26 day of December , 20 13 Witness (if any) For Company KCC WICH For Commission	or		$(P_c)^2 - (P_w)^2$		1. 2.	1. P _c ² -P _a ² LOC form 2. P _c ² -P _d ² 1. or and d		1a 2. <i>ride</i> p ₂ p ₂ 2		Slope = "n" or Assigned		n x LOG		Ar	Antilog		Deliverability Equals R x Antilog	
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of e facts stated therein, and that said report is true and correct. Executed this the 26 day of December , 20 13 Witness (if any) For Company KCC WICH For Commission																		
Witness (if any) For Commission Executed this the 26 day of December , 20 13 For Commission Checked by	Open Flo	1 w		1	N	/lcfd @ 14.	65 psia			Deliverabi	ility			Mcfd @	14.65 ps	iá		
For Commission Checked by			_											ort and t	that he ha			
For Commission Checked by				Witness	(if any)					_			For	Company	k	CC	WICH!	
	-	== =		For Com	mission				-	_			Che	ecked by				

exempt status under and that the foregon correct to the besto 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, Inc. oing 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. st a one-year exemption from open flow testing for the Zweygardt 24-31
gas well on the gro	ounds 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: 12/26/13	
	Signature: 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.

KCC WICHITA

DEC 3 1 2013

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