RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flo	~	****		(extraction (See Instruct	ions on Re	verse Side	•	No. 15	•			
De De	liverab	ilty			lest Date	; ,		•		181-20369-0	0-00			
Company Noble Energy Inc				Lease Helman P				13-24	Well Number 13-24					
County Sherman			Location	n -NW-SW	Section 24		TWP 6S		RNG (E/W) 40W		Acres Attributed		tributed	
Field Goodland					Reservoir Beecher Island				Gas Gathering Conne Kinder Morgan		etion			
Completion Date 7/7/2005				Plug Bac 1477'	k Total Dept	h	Pack		et at					
Casing Size 8-5/8", 4-1/2"			Weight 24#, 9		Internal Diameter 12-1/4", 7-7/8"		Set at 429', 1517'		Perforations 1281'		то 1308'			
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1332'		Perforations		То			
Type Completion (I Single (gas)			escribe)		Type Fluid Production Saltwater				Pump Unit or Traveling Plung		Plunger? Yes	ger? Yes / No		
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide			% Nitrog	Gas Gra	Gas Gravity - G _g					
Vertical D	epth(F	l)				Pres	sure Taps				(Meter F	Run) (Pr	over) Size	
Pressure	Buildu	p:	Shut in	29 29	13 at 9	:15	(AM) (PM)	Taken		20	at	(/	AM) (PM)	
Well on L	ine:		Started 10/3	20	13 at 9	:15	(PM)	Taken		20	at	(/	AM) (PM)	
						OBSERVE	D SURFAC				Duration of Shut-	1 24	Hours	
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential re in Inches H ₂ 0	Temperature Tempera		I Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	ut-In						76	pon	hora hora					
Flow								<u> </u>			-			
					1	FLOW STR		RIBUTES		***************************************	1	•		
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fac	tor	Flowing Temperature Factor F _{f1}	F	riation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
(P _c) ² =		:	(P _w) ² =	:	(OPEN FL	OW) (DELIV		/) CALCUI P _c - 14.4) -		:	(P _a) [;] (P _d) [;]	2 = 0.20 2 =)7	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2. 1. $P_c^2 \cdot P_g^2$ 2. $P_c^2 \cdot P_d^2$ divided by: $P_c^2 \cdot P_g^2$	LOG of formula 1. or 2. and divide	Backpre Slo		essure Curvi ope = "n" - orssigned dard Slope	e n x i	Γ٦	Antilog	Op Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
											· · · · · · · · · · · · · · · · · · ·			
Open Flo				Mcfd @ 14.	65 peio		Delivera	hility			Mcfd @ 14.65 psi			
·														
				i behalf of the iid report is true							rt and that he ha		edge of 20 <u>13 </u>	
				•					-				WICHI	
			Witness (i	any)		,	•			ForC	ompany		_	
			For Comm	ission						Chec	ked by	DEC	3 1 2013	

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc						
and tha	at 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						
	oment installation and/or upon type of completion or upon use being made of the gas well herein named. ereby request a one-year exemption from open flow testing for the Helman 13-24						
	Il 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						
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission						
	necessary to corroborate this claim for exemption from testing.						
	·						
Date: _	12/18/2013						
	Signature: Cley Hokoson						
	Title: Completions Supervisor						

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. Team 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. Team 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. Team will be subject well.

DEC 3 1 2013