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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: Open Flow Deliverabilty					(Test Date	tions on Re	erse Side	, API	No. 15	200				
Company Noble Energy Inc				Lease Rueb Farm			arm	10-	023-21332-0	•	Well Number 24-16B			
County L			Location NE-SE-	cation Section SE-SE-SW 16			TWP 3S		RNG (E/W) 42W		Acres Attributed			
Field Armel				Reservoir Niobrara				Gas Gathering Conn Kinder Morgan		ction				
Completion Date 9/1/2011			Plug Back Total De 1679				th		Packer S	Set at				
Casing Size 7", 4-1/2"			Weigh 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 317',1719		Perforations 1530'		то 1583'			
Tubing Size Weight			Internal [Diameter	Set a	et at Perforations		rations	То					
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plu No			unger? Yes / No			
Producing Thru (Annulus /			nulus / Tubing	bing) % Carb			bon Dioxide			% Nitrogen		Gas Gravity - G _g		
Annulus Vertical E		 {}				Pres	sure Taps				(Meter I	Run) (Pr	over) Size	
Pressure Well on L			Shut in 11/2				(AM) (PM) (AM) (PM)				at			
						OBSERVE	D SURFACI	E DATA			Duration of Chut	. 26.	5 _{House}	
Static / Dynamic Property	mic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia				Hours Produced Barrels)	
Shut-In	ut-In						149	F		,,,,,,				
Flow														
	 -					FLOW STE	REAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Grav Fac F	tor .	Flowing Temperature Factor F _{rt}	Fa	riation actor = pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
]													
$(P_c)^2 =$:	(P _w) ² =	:			'ERABILITY % (F) CALCUL _c - 14.4) +			(P _a) (P _d)	² = 0.2 ² =	07	
$(P_c)^2 - (P_s)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose tomula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ tivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide p 2. p		Backpressure Curve Slope = "n" or Assigned Standard Slope		e n x l OG		Op Antilog Equals		en Flow verability R x Antilog Mcfd)	
								<u></u>						
Open Flow Mcfd @ 14.65 psia						Deliverat	Deliverability Mcfd @ 14.65 psia							
		•	•				•			•	t and that he ha		ledge of 20 13 .	
ine tacts s	stated t	nerei	n, and that sa	id report is true	e and correc	zi. Executed	i inis the 🚣	·	uay of		V		MICHI.	
			Witness (i	any)			-			For Co	ompany			
			For Comm	ssion			-			Check	red by	DEC	3 1 2013	

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 Rueb Farm 24-16B
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: _12/27/13
Signature: Cherry Johnson 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. TKGG WIGHITA signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013

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