•

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	: en Flov	ı	ONE		(tions on Rev		e)	IIADILII			
	en riov Iiverabi				Test Date) ;				No. 15 181-20373-(o f -00		
Company Noble Er		nc					Lease Helman				8-24	Well Nu	ımber
County Shermar	า		Location SE-SE-N		Section 24		TWP 6S		RNG (E/ 40W	W)		Acres A	Attributed
Field Goodlan			. 22 02 1	-	Reservoir Beeche					hering Conn Morgan	ection		
Completic 2/7/2006		•			Plug Bac 2805'	k Total Dep	th		Packer S		,		
Casing Si 7", 9 5/8'		•	Weight 32.3#,	20#	Internal (12-1/4,		Set a 425'	it , 1622'		rations e - open he	To ole	·	
Tubing Si 2 3/8"			Weight 4.7#		Internal D 1.995		Set a	ıt		rations	То		
Type Com	-	(De			Type Flui	d Productio			Pump Ur	nit or Traveling	Plunger? Yes	/ No	
Single ((Алл	ulus / Tubing)		Saltwa % 0	iter Carbon Dioxi	de		% Nitrog	en	Gas G	ravity - 0	 3,
Tubing												D) (D	
Vertical D	epth(H)				Pres	sure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildup	o: \$	Shut in	3 2	13 at 9	:00	(AM) (PM)	Taken		20	at		(AM) (PM)
Well on Li	ine:	5	Started 10/24	20	13 at 9	:00	(AM) (PM)	Taken		20	at		(AM) (PM)
						OBSERVE	D SURFACE	E DATA			Duration of Shu	t-in_24	Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressure	1	Flowing Well Heat Temperature t		1 Wollhood Proceuro		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		d Produced Barrels)
Shut-In			psig (Pm)	Inches H ₂ 0			psig psia		psig psia				
Flow													
						FLOW STE	REAM ATTR	IBUTES	· ·	1	· · · · · · · · · · · · · · · · · · ·		
Coeffieci	Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or ver Pressure psia	Press Extension ✓ P _m xh	Extension Fac		tor Temperature		Deviation Meters Factor F _{pv} (M		w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G _m
					<u> </u>								
(P _c) ² =		_:	(P _w)² =_	:	(OPEN FL P _d =	. ,	'ERABILITY % (F) CALCUI ² c - 14.4) 4		:		$()^2 = 0.2$ $()^2 =$	07
(P _c) ² - (F or (P _c) ² - (F		(P	(_c) ² - (P _w) ²	hoose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_a^2$	LOG of formula 1, or 2, and divide	P _c ² • P _w ²	Slop Ass	ssure Curve pe = "n" or signed ard Slope	n x	LOG	Antilog	De! Equals	oen Flow iverability s R x Antilog (Mcfd)
Open Flor				Mcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 p	sia	
The i	undersi	_	•	behalf of the	Company,		ne is duly au	uthorized		ne above repo	ort and that he h	as know	
the facts s	tateď th	erei	n, and that sai	d report is true	and correc	ct. Executed	this the 18	3	day of _D	ecember	K	-	₂₀ <u>13 </u>
-			Witness (if a	iny)			_			For	Company		1 2013
			For Commis	sion			-			Che	cked by		CEIVED

of perjury under the laws of the state of Kansas that I am authorized to request R. 82-3-304 on behalf of the operator Noble Energy Incure information and statements contained on this application form are true and eledge and belief based upon available production summaries and lease records or upon type of completion or upon use being made of the gas well herein named. Far exemption from open flow testing for the Helman 8-24 said well:
riedge and belief based upon available production summaries and lease records or upon type of completion or upon use being made of the gas well herein named. For exemption from open flow testing for the Helman 8-24 said well: In add methane producer on plunger lift due to water of natural gas for injection into an oil reservoir undergoing ER
ed methane producer on plunger lift due to water e of natural gas for injection into an oil reservoir undergoing ER
on plunger lift due to water e of natural gas for injection into an oil reservoir undergoing ER
um at the present time; KCC approval Docket Noable of producing at a daily rate in excess of 250 mcf/D to the best of my ability any and all supporting documents deemed by Commission rate this claim for exemption from testing.
Signature: Cheuf 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. The form must be 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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