KCC WICHITA

15-181-20373-01-00

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instru	ictions on Re	everse Side	e)			
= .	en Flov liverabi				Test Date) :				No. 15 181-20373-6	/ 0 0-00	
Company Noble E		nc			· · ·		Lease Helma r	ר			8-24	Well Number
County Shermai	n		Location SE-SE-N		Section 24		TWP 6S		RNG (E/	W)	·	Acres Attributed
Field Goodlan	ıd				Reservoir Beeche					hering Conne Morgan	ection	ı
Completic 2/7/2006					Plug Bac 2805'	k Total De	pth		Packer S	Set at		
Casing S 7", 9 5/8		•	Weight 32.3#,	20#	Internal I 12-1/4,		Set 425	at 5', 1622'	Perfo Non	rations e - open ho	To ole → /622	" to 2805 " M
Tubing Si 2 3/8"	ize		Weight 4.7#		Internal D	Diameter	Set 157			rations	То	
Type Con	•	(Des	cribe)			d Producti			Pump Ur	nit or Traveling	Plunger? Yes	/ No
		Annu	lus / Tubing)			arbon Dio	xide		% Nitrog	en	Gas Gr	ravity - G _g
Vertical D	epth(H)			<u> </u>		Pre	essure Taps		· ·		(Meter	Run) (Prover) Size
Pressure	Buildup	: Sh	nut in 6/1	2	0 11 at 8	:00	(AM) (PM)	Taken		20	at	(AM) (PM)
Well on L	ine:	St	arted 6/21	2	0 <u>11</u> at .8	:00	\subseteq					(AM) (PM)
					<u> </u>	OBSERV	ED SURFAC	E DATA		 .	Duration of Shut	-in_504 Hours
Static / Dynamic Property	Orific Size (inche	P	Circle one: Meter rover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing: Temperature t	Well Head Temperatu t	Wellhead	sing I Pressure P ₁) or (P _c) psia	Wellhe	ubing ad Pressure (P _t) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In							40	psia	paig	рзіа		
Flow			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								,,,,, -,	
						FLOW ST	REAM ATTE	RIBUTES				
Coeffiec (F _b) (F	Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Press Meter or Extensi Prover Pressure psia Pressure		Gravity Factor F _g		Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	I Gravity I
					(OPEN FL	OW) (DEL	IVERABILITY	() CALCUL	ATIONS		,	2 0007
(P _c) ² =		:	(P _w)² ≃	:	P _d =			P _c - 14.4) +		<u></u> :	(P _a)	² = 0.207 ² =
(P _c) ² - (I or (P _c) ² - (I	P _e) ²	(P _c)	²- (P _w)²	oose formula 1 or 2. 1. $P_c^2 - P_e^2$ 2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2.	P _c ² · P _w ²	Slo As	essure Curve pe = "n" - or ssigned dard Slope	l n v i	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flor	w			Mcfd @ 14.	65 psia		Deliveral	oility		·	Mcfd @ 14.65 ps	ia
			•	behalf of the			•			e above repo	rt and that he ha	as knowledge of
			Witness (if a		:		•			<i>V</i>	ompany	EC 0 2 2011
			For Commiss	ion			•			Chec	ked by	LOII

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	going pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records
	allation and/or upon type of completion or upon use being made of the gas well herein named.
• •	lest a one-year exemption from open flow testing for the Helman 8-24
•	rounds that said well:
,	
(Chec	(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
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
staff as necessa	
staff as necessa Date: <u>11/11/201</u>	<u>. </u>
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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 signed and dated on the front side as though it was a verified report of annual test results.