KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instru	uctions on R	everse Sid	e)					
= :	en Flo eliverab					Test Date	: :			_	No. 15 3-20983-00)-00,			
Company Noble E		Inc						Lease Douthi	i it			13-16	Well Nu	mber	
County Location Cheyenne N2-SW-NW-SW			W-SW	Section 16		TWP 4S	· · · · · · · · · · · · · · · · · · ·	RNG (E/W) 41W		Acres Attributed					
Field Cherry C	Creek					Reservoir Niobrara		* *			ering Conne n Star/Kind				
Completic 8/26/201		te				Plug Bac 1346'	k Total De	epth	,	Packer Se	et at				
Casing Size 7", 4 1/2"			Weight 17#, 11.6#			Internal E 9 7/8",			Set at 116',1386'		Perforations 1201'		то 1240'		
Tubing Size 2 3/8			Weight 4.7#			Internal I 1.995		Set	Set at 1270		Perforations		То		
Type Con Single (n (De				Type Flui Saltwa	d Product			Pump Uni No	t or Traveling	Plunger? Yes	/ No		
		(Anr	nulus / Tubi	ng)			arbon Dic	oxide		% Nitroge	ก	Gas Gr	avity - G	j _g	
Vertical D	Depth(l	1)					Pro	essure Taps				(Meter I	Run) (Pr	over) Size	
Pressure	Buildu	ıp: :	Shut in	1/13	20	13 at 1	:30	(AM) (PM	Taken		20	at		AM) (PM)	
Well on Line:			Started 11								20				
								VED SURFA			<u>.</u>	Duration of Shut-	27		
Static / Dynamic Property	Orifi Siz (inch	e	Circle one Meter Prover Pres psig (Pm	sure	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Hear Temperatu t	Wellhea	asing d Pressure (P _t) or (P _c)	Wellhea (P _w) or t	bing d Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			F9 (-	mones rigo			111	psia	psig	psia				
Flow															
						_	FLOW S	TREAM ATT	RIBUTES						
Coeffied (F _b) (F	Coefficient Meter (F _b) (F _p) Prover Pro		Circle one: Meter or ver Pressure psia	ror Extension		Gravity Factor F _g		Flowing Temperature Factor F _{f1}) F	viation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
/D)2			(D \2			•		.IVERABILIT	-				² = 0.20)7	
$(P_c)^2 = \frac{P_c}{(P_c)^2 \cdot (P_c)^2}$	P_)2		(P _w) ² Y _o) ² - (P _w) ²	<i>Choo</i>	se formula 1 or 2: P _c ² - P _a ² P _c ² - P _d ² P _c ² - P _d ²	LOG of formula 1, or 2.	P _c ² · P _x ²	Backpi Si	ressure Curv lope = "n" or Assigned ndard Slope	l n x te	F 7	(P _d)	Op Deli Equals	en Flow verability R x Antilog Mcfd)	
Open Flo	w				Mcfd @ 14.6	65 osia		Delivera	ability			Mcfd @ 14.65 ps	a		
		igned	authority,		_		states that			to make the		rt and that he ha	•	edge of	
								ed this the _			-			13 .	
			Witness	fil a=v	1			-			5- 0		C W!	CHITA	
			. For Con				•		*****			company DE	C 3 1	2013	
											5.100		RECE	IVED	

correct to the best of equipment insta	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 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 Douthit 13-16
gas well on the gr	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	Signature: <u>Lity</u> 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. **KCC WICHITA**

DEC 3 1 2013