KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t: oen Flov	.,	• · · · · ·		J J	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(5	See Instruct	tions on Re	everse Sid	de)				,		
	liverabi					Test (01/2						API N 023-	lo. 15 20303 -C	χ-O'	0		
Company		eve	lopment C	orp)				Lease Northr	up					15-8-1	Well Nu	mber
County Cheyer			Locati SWSE	on		Section 15	on		TWP 2S			RNG (E/V 42W	/)			Acres A	ttributed
Field Cherry						Reser		a			_	Gas Gath	ering Conn ureka Gat				
Completion 03/29/1	on Date				<u> </u>	Plug I		Total Dept	h		F	Packer Se n/a					
Casing S			Weigh 10.5#			Intern 4"	al Di	iameter	Set 174			Perfora 1633			To 1677'		
Tubing Si	ize		Weigh 4.75#	ŧ		Intern 2"	al Di	iameter	Set 165	at		Perfora			То		
Type Con N2 Frac		(De				Туре		Production /ater				Pump Unit	or Traveling	Plunger	? Yes	/ No	
		(Anr	nulus / Tubing	1)				arbon Dioxi	de			% Nitroge			Gas Gra	avity - G	ig
Annulus					****	<1%)	D				<1%	···		/\d_+ [
Vertical D	epin(H)						Press	sure Taps						(ivieter r	aun) (Pr	over) Size
Pressure	Buildup); ;	Shut in1/24	1	2	0 12 at	8:2	20am	(AM) (PM)	Taken_1	/2	5	20	12 at_	8:30an	n (AM) (PM)
Well on L	ine:	;	Started		20	0 ai			(AM) (PM)	Taken _			20	at _		(AM) (PM)
	••							OBSERVE	D SURFAC	E DATA				Duration	of Shut-	in 24	Hours
Static / Dynamic Property	Orific Size (inche	. :	Circle one: Meter Prover Pressu	re	Pressure Differential in	Flowin Temperat	- 1	Well Head Temperature t	Wellhead	sing I Pressure P _t) or (P _c)		Wellhead	bing I Pressure P _t) or (P _c)	Dura (Ho	ation	Liquid	l Produced Barrels)
Shut-In			psig (Pm)	\dagger	Inches H ₂ 0				psig 138	psia		psig	psia				
Flow					· · · · · · · · · · · · · · · · · · ·		\dashv				-						
								FLOW STR	EAM ATT	RIBUTES							
Plate Coeffied (F _b) (F Mcfd	ient ")		Circle one: Meter or ver Pressure psia	14	Press Extension P _m xh		Gravit Facto	т	Flowing emperature Factor F _{tt}	F	eviat acto F _{pv}	or	Metered Flow R (Mcfd)	- 1	GOR (Cubic Fee Barrel)	et/	Flowing Fluid Gravity G _m
						(ODEN	F! 0	MA (DELIN	SPARILITY	O CALCU	. A.	TIONS					
(P _c) ² =		<u>.</u> :	(P _w) ² =		:		rLU a=_	W) (DELIV		P _c - 14.4)			:		(P _a) ²	? = 0.20 ? =	D7
(P _c) ² - (I or (P _c) ² - (I	"	(P	(P _w) ² - (P _w) ²	1	se formula 1 or 2: . P _c ² - P _a ² . P _c ² - P _d ² d by: P _c ² - P _w ²	LOG forms 1. or and di	ila 2. vide	P.2. P.2	Sic	essure Curv ppe = "n" - or ssigned dard Slope		n x LC	og [Anti	log	Deli Equals	en Flow . verability R x Antilog Mcfd)
									,		-						
Open Flor	w			ł	Vlcfd @ 14.	65 psia			Delivera	bility				Mcfd @	14.65 psi	a a	
	•		d authority, or			•	-		•			make the		rt and th	at he ha		edge of
											~	udi	0	Q.,	אדני	RI	ECFIVEN
			Witness (if	any)						7	7-1	nun	For	Company		A D	D 2 1. 201
			For Commi	ssion									Chec	cked by		—AP	R 2 4 2 01

alty of perjury under the laws of the state of Kansas that I am authorized to request E.A.R. 82-3-304 on behalf of the operator Petroleum Development Corp ressure information and statements contained on this application form are true and knowledge and belief based upon available production summaries and lease records and/or upon type of completion or upon use being made of the gas well herein named. The eyear exemption from open flow testing for the Northrup 15-8-1
hat said well:
valbed methane producer led on plunger lift due to water ource of natural gas for injection into an oil reservoir undergoing ER vacuum at the present time; KCC approval Docket No capable of producing at a daily rate in excess of 250 mcf/D
uply to the best of my ability any and all supporting documents deemed by Commission roborate this claim for exemption from testing.
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Signature: Judith Fruitt Title: Sr. Engineering Tech
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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 form must be signed and dated on the front side as though it was a verified report of annual test results.

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