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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			` (See Instru	ctions on Re	verse Side	∍)		**		
Open Flow			Test Date	Test Date:			API	No. 15				
✓ Deliverabilty			11/21/13			API No. 15 15-075-20439-00-0						
Company Linn Ope		nc .				Lease HCU				2030-0	Well Number	
County Location Hamilton NE			Section 20		TWP 23S			Acres Attributed 640				
ield Bradshaw				Reservoir Winfield			Gas Gathering Connection Oneok Field Services					
Completion Date 11/27/90			Plug Bac 2670	Plug Back Total Depth 2670			Packer Set at					
Casing Si I.5	sing Size Weight 5 9.5		Internal Diameter 4.090			Set at 2732		ations }	то 2616			
Tubing Si	oing Size Weight 8/8 4.7		Internal Diameter 1.995			Set at 2649		ations	То	То		
Type Completion (Describe) Single Gas				Type Fluid Production . Gas - Water			Pump Unit or Traveling Plunge Pump		•	ger? Yes / No Yes		
Producing Thru (Annulus / Tubing) Annulus				% C	% Carbon Dioxide			% Nitrogen		Gas Gr. .767	Gas Gravity - G _g .767	
Vertical Depth(H) 2732				Pressure Taps Flange			(Meter Run) (Prover) Size 2.067"					
Pressure	Buildup:	Shut in 11	/20	13 _{at} 1		(AM) (PM)	Taken 1	1/21	20	13 at 11:00	AM (AM) (PM)	
Well on L	ine:	Started	2	0 at		_ (AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERV	ED SURFAC	E DATA			Duration of Shut-	inHours	
Static /. Dynamic Property	Static /. Orifice ynamic Size reporty (inches)		Circle one: Meter rover Pressure psig (Pm) Pressure Differential in Inches H ₂ 0		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Liquid Produced (Barrels)	
Shut-In						43	57.4	Pump		24		
Flow						-						
					FLOW ST	REAM ATT	RIBUTES	1				
Plate Coeffiecient -(F _b)(F _p) Mcfd		Circle one: Meter or Prover Pressure psia Press Extension Pm x h		Gravity Factor F _s		Flowing Temperature Factor F ₁₁	Fa	viation actor	Metered Flov R (Mcfd)	y GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m	
						·						
P _c) ² =	:	(P)² =	= , 4	(OPEN FL	, ,	VERABILITY % (/) CALCUL P _c - 14.4) +		:	(P _a);	2 = 0.207	
(P _c) ² - (F		(P _c) ² - (P _w) ²	1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpre Slo	essure Curve ppe = "n" - or ssigned dard Slope		og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
							•				,	
Open Flov	w .		Mcfd @ 14.	65 psia		Deliveral	oility	· · · · · ·		Mcfd @ 14.65 psi	a .	
								o make the		rt and that he ha	-	
ie tacts st	tated ther	ein, and that s	aid report is true	e and correc	t. Execute	a this the <u></u>		day of S	_ A	Lidas	20 13	
		Witness	(if any)						For C	Company	KCC Mit	
		<u></u> :	nission							ked by	DEC 13	

		• .	
I declare under penalty of perjury ur	nder the laws of the state of Ka	nsas that I am authorize	ed to request
exempt status under Rule K.A.R. 82-3-304	4 on behalf of the operator Linn	Operating, Inc.	
and that the foregoing pressure information			are true and
correct to the best of my knowledge and b	pelief based upon available pro	duction summaries and l	ease records
of equipment installation and/or upon type	e of completion or upon use beir	ng made of the gas well h	erein named.
I hereby request a one-year exemption	on from open flow testing for the	HCU 2030-C	· · · · · · · · · · · · · · · · · · ·
gas well on the grounds that said well:		•	
(0)			
(Check one)	ana dinesi		
is a coalbed methane			•
is cycled on plunger li		nioir undorgoina ED	
,	gas for injection into an oil rese esent time; KCC approval Dock		
	ucing at a daily rate in excess of		
₩ is not capable of prod	deing at a daily rate in excess t	71 230 MCI/D	
I further agree to supply to the best of	of my ability any and all support	ing documents deemed	by Commission
staff as necessary to corroborate this cla	im for exemption from testing.		· · · · · · · · · · · · · · · · · · ·
N a		• 4	
Date: 12/2/13			
Date.			
		•	•
	A A	11	
	Signature:	Hrendeta	
	Title: Regulatory Comp	oliance Advisor	
	•		

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 13 2013
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