KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Open Fixw Test Date:	Type Test:		OHL:	U	(S	ee Instructio	ons on Reve	erse Side)						
Delevariably US-20.0390-00-00 Users Number Oroseshoe Operating, Inc. Lease Hatcher Cattle 1 Oroseshoe Operating, Inc. Cattle 1 Oroseshoe Operating, Inc. Cattle 1 Oroseshoe Operating, Inc. Cattle 1 Oroseshoe Operating Oroseshoe 1 Oroseshoe O		Flow			Test Date:				API N	o. 15	0			
Consession Con	Delive	rabilty			7-18-1	2			075-	20259-00-0		ell Number		
Content Cont	Company	a Onar	ating Inc				Lease Hatche	r Cattle			1			
Part	County Location Section				TWP		RNG (E/W)							
Treasure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Taken Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at /3 130 (AM) (PM) Pressure Buildup: Shut in T-17 20/2 at	Hamilton 660' FN 1980 FE 22				228		Gas Gathe	ering Connecti	on	1				
Pulg Back Total Depth Packed Deth Pack	^{Field} Bradshaw	,				<u> </u>			Oneok	Field Service	es			
Personal District Property Pressure	Completion					Total Depth	1	1	Packer Se	я ас.				
The components of the properties of the properti	1/16/79 Casing Size		Weight			iameter	Set at							
Description	4.5		10.5		4.052		Set at							
Type Flade Production Water Type Flade Production Water Type Flade Production Water Throughout Thru (Annulus / Tubing) The Flade Production Water Throughout Thru (Annulus / Tubing) The Flade Production Water Throughout Thru (Annulus / Tubing) Thrung Casing Tubing Taken Throughout Thrung Casing Tubing Taken Throughout Thrung Casing Tubing Throughout Thrung Casing Tubing Throughout Thrung Tubing Throughout Thrung Casing Tubing Throughout Tubing Throu	Tubing Size					iameter	381 ai				Voc. / No.			
Program Carbon Dinkide **Solitory True (Annulus / Tubing) **A Carbon Dinkide **Solitory True (Annulus / Tubing) **Program Tapa **Program Buildup: Shut in 7-17 20 at / 2/30 (ANN (Psp)) Taken 7-18 20/2 at / 2/30 (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) Taken 20 at (ANN (Psp)) **Weil on Line: Started 20 at (ANN (Psp)) Taken 20 at (ANN	Type Comple					1 Production	1		Pump Uni	it or Traveling P	iunger/ Yes	· IAO		
Pressure Buildup: Shut in 7-17 20 at 3.0 (AM) (PM) Taken 7-18 20/2 at 12/30 (AM) (PM) Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM) Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM) Static / Orifice Meter Street Meter State (Inches) Pressure In psig (Pm) Inches H ₂ 0 Pressure Buildup: Shut in 7-17 20/2 at 12/30 (AM) (PM) Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM) OBSERVED SURFACE DATA Duration of Shut-in 24 Hours Casing Wellhead Pressure (Pp.) or			ulus / Tubino			arbon Dioxid	de		% Nitroge	en	Gas Gra	wity - G _g		
Pressure Buildup: Shut in 7-17 20 at 7:30 (AM) (Fb) Taken 7-18 20/2 at 7:30 (AM) (Fb) Taken 7-18 20/2 at 7:30 (AM) (Fb) Taken 20 at 20/3 (AM) (Fb) Taken 20 at	-		45								(Meter F	lun) (Prove	r) Size	
Pressure Buildup: Shut in								_			Ò	2"		
Pressure Buildup: Shut in				-17	12 /				7-18	20/	2 at 12:3	30 (AM)	(PM)	
OBSERVED SURFACE DATA OBSERVED SURFACE PROSERVED SURFACE PROSE	Pressure Bu	ıildup: ﴿	Shut in				_	•					_	
Static Orifice Original Cyramic State Property (Inches)	Well on Line	∋: 5	Started	20) at		(AM) (PNI)	194011	-			2/	F	
Static / Open Flow Pressure Pressure Pressure Prover Pressure Pressure Prover Pressure Pressure Pressure Pressure Prover Pressure Press						OBSERVE			, .		turation of Shut-	in <u>01</u>	Hours	
Dynamic Size (Inches) Prover Pressure paig (Pm) Inches H ₂ D t t paig (Pm) Inches H ₂ D t t paig poin paig (Pm) Inches H ₂ D t t paig poin paig paig paig paig paig paig paig paig	Static /	Orifice	1	Differential re	_	1	Wellhead Pressure		Wellhead Pressure				,	
Flow STREAM ATTRIBUTES Plate Coefficient (F _a) (F _a) Moder or Prover Pressure pala (Could Feet) Moder or pala (Could Feet) Moder or Prover Pressure pala (Could Feet) Moder or Pressure pala (Could Feet) Moder or Prover Pressure pala (Could Feet) Moder or Pressure pala (Could Feet) Moder	Dynamic Property (Prover Pressur		•		(P _w) or (r				(Hodia)			
FLOW STREAM ATTRIBUTES Plate Coefficient (F ₂)(F ₃) Moder or Prover Prassura psia (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P ₂) ² = (P _y) ² =	Shutain	1.25	paig (i iii)	11101100 1 12				42.1			<u> 24</u>			
Plate Coefficient (F _a)(F _c) Prover Pressure pisia Press (P _c) ² = : (P _c) ² = : (P _c) ² - (P _c) ² (P _c)		000	<u> </u>											
Plate Coefficient (F ₁) (F ₂) (F ₃) (Cubic Feet Prover Pressure Pial (F ₃) (F ₃) (P ₄) (P)	Flow		<u> </u>	<u> </u>		FLOW STF	REAM ATT	RIBUTES	-l				——-	
Coefficient (F _s) (F _s) Prover Pressure pala Prover Pressure Prover Pressure Prover Pressure Pres	Plate		Circle one:	Press	Gra	withe	Flowing		iation	***************************************	1	1	- 1	
(P _e) ² =	Coefficcier			Extension	Fac	tor	Factor						- 1	
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(P _c) ² = : (P _w) ² = : P _d = % (P _c - 14.4) + 14.4 = : (P _d) ² =											<u></u>		l	
(P _c) ² = : (P _w) ² = : P _d = 76			ži.							:				
(P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (P _c) ² - (P _g) ² (Mofd)	(P _e) ² =	: -		Choose formula 1 07		' 				r 7		1	1 Flow	
Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the Witness (if any) Witness (if any)	(P _c) ² - (P _a))² (F			LOG of formula		Slope = "n"				Antilog			
Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the day of October 1.2. Witness (if any)	or (P _c)² - (P _d)²		•	and divide	P ₂ - P _y 2						(M	cfd)	
Open Flow Mcfd @ 14.65 psia Deliverability The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the day of October 1, 20 /2. Witness (ff any)	<u> </u>			divided by: Pt - Pw	,	<u> </u>					·	·		
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KCC WALL			For Comm	lission						Che	cked by		UC 1	
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I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Hatcher Cattle gas well on the grounds that said well:
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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date:
Signature:

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.