KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:						(See In	stru	ctions on Re	ve'rse Sic	le)					
o	pen Flo	wc														
D	eliveral	bilty				7-18-	.te: -/3					PI No. 15 71-20073-00	-00			
Compan							<u>/ </u>		Lease			1 20070 00		-	Moll N	lumber
	noe O	pera	iting, Inc.						Househ	older	_			1	VVEII IV	umber
County Greeley	,			atior	ו	Section			TWP		RNG (E/W)			Acres	Attributed
Field			. C NE			28		•	208		40W	·		<u>-</u>		
Bradsha	w		•			Reservo Chase	Hr				Gas Gas DCP I	athering Conr Midstream	nection			
Completi		te				Plug Ba	ck Total	Dep	oth		Packer					
12-9-19						2835'										
Casing S 4.5	Size		Wei ₂ 11.6			Internal 4.000	Diamete	r	Set a	}		orations		То		
Tubing S	ize	· · ·	Wei			Internal	Diamete	r	Set a	· · · · · · · · · · · · · · · · · · ·		06' - 2813' orations				
2-3/8"			4.7	J		2.000	Diamoto	'	2816		ren	orations		То		
Type Cor			escribe)			Type Flu		ctio	ะก	•	Pump L	Init or Traveling	Plunger?	Yes	/ No	
Single -			nulus / Tubi			Water					No					
Tubing	y mu	(Ani	nulus / Tubi	ng)		% (Carbon [Diox	ide	1	% Nitro	gen		Gas G	ravity -	G,
Vertical D	Pepth(F	1)					F	res	sure Taps					/Mater	D) /5	
									ge					3"	Hun) (F	rover) Size
Pressure	Buildu	n.	Shut in	7	1-17 2	13.	9:30)	AW (DW)	F-1	7	-/8 ₂₀			30	
																(AM) (PM)
Well on L	me: 	,	Started		2	0 at			(AM) (PM) 1	Taken		20	at			(AM) (PM)
તુક અને						T	OBSE	RVE	D SURFACE	DATA	··	·	D			2 //
Static /	Orific	ce c	Circle one		Pressure	Flowing	Well He		Casin			Tubing	Duration of	of Shut	-in	Hours
Dynamic	Size	•	Meter Prover Press	sure	Differential in	Temperature	Tempera		Wellhead P		Wellhe	ad Pressure	Durati			d Produced
Property	(inche	95)	psig (Pm		Inches H ₂ 0	t	t		psig	psia	psig	r (P _t) or (P _c)	(Hour	rs)	(Barrels)
Shut-In	.50	0								50			2	4		
Flow									×					<i>-</i>	 	
<u>-</u> L					<u>_</u>		FLOW	STP.	EAM ATTRIE	HTEC					<u> </u>	
Plate			Circle one:	T	Press		T		Flowing	0123				···		
Coeffieci		Meter or Prover Pressure			Extension	Gravity Factor		Ţ	Temperature Fa		riation Metered Flow		V GOR (Cubic Fee		Flowing Fluid	
(F _b) (F _p Mcfd	'	psia			$\sqrt{P_m x h}$	F,			Factor F.				Barrel)		ev	Gravity
			-	\dagger												- G _m
				<u> </u>		<u></u>		•					<u> </u>			
(D)2 _			45.18				OW) (DEI		ERABILITY) ((P _a) ²	= 0.20)7
(P _c) ² =		<u>-:</u> _	(P _w) ² =		se formula 1 or 2:	P _a =_			6 (P _c ·	14.4) +	14.4 =	 :	~	(P _d) ²		
(P _c)² - (P	a) ²	(P)² - (P _w)²		: P _c ² -P _a ²	LOG of		7.	Backpressu Slope						Оре	en Flow
or (P _c)² - (P	_d) ²		1	2	P _c ² - P _d ²	formula 1. or 2. and divide					nxl	.og	Antilog	g		rerability R x Antilog
			·	divide	od by: Pc2 - Pw2	by:	P _c ² -P _w ²		Standard							/Icfd)
									<u> </u>							
Open Flow	<u></u>		<u>-</u>			<u> </u>	·		i							
Spen Flow	'				Mcfd @ 14.6	5 psia	· · · · ·		Deliverabilit	<u>/.</u>		N	1cfd @ 14.	65 psia	l	
The ur	ndersig	ned	authority, o	n be	half of the C	Company, st	ates that	he	is duly autho	orized to	make the	above report	and that	he has	knowle	edge of
e facts sta					eport is true						ay of	Intalion	<i>J.</i>		-	73
grand a								- - 1			~" "! -€ ∠	CN (LL)	. 1		, 20) <u>/_</u> .
											an	Cl Ky	zlle	2		
			Witness (ii etily)						/.	1	for fo	mpany 0			
		L	For Comm	ission								Check	ed by			

	er penalty of perjury under the laws of the state of Kansas that I am authorized to requester Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
correct to the best	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 llation and/or upon type of completion or upon use being made of the gas well herein named.
	st a one-year exemption from open flow testing for the _Householder 1
	bunds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>/0-/5-/</u>	3
	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.

OCT 1 8 2013
CONSERVATION DIVISION

RANSAS CORPORATION COMMISSION