KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

County Location Section TWP 40W Acres Attrib Greeley NW NW 1 17S 40W Acres Attrib Greeney Acres Attrib Greeney NW NW NW 1 17S 40W Acres Attrib Greeney NW NW NW 1 1880 NOR Preserve No. 1880 NOR No. 1880 NO. 1880 NOR NO. 1880 NO	Type Test:				(See Instru	ctions on R	everse Sid	le)			٠
Selection Section Section TWP RNG (EW) Across Attrib Across Attr	Open Fl	ow									
Company Location Sietigh 1 Horseshoe Operating, Inc. Southy Location TWP RNG (E/W) Acres Attrib Greeley NW NW 1 1 17S 40W ACRES Attrib Section TWP RNG (E/W) Acres Attrib Section DCP Midestroams Completion Date Plug Back Total Depth 17S ACRES Attrib DCP Midestroams Completion Date Plug Back Total Depth 1880 None Casing Size Weight Internal Diameter Set at None Casing Size Weight Internal Diameter Set at None Casing Size Weight Internal Diameter Set at Perforations To 2936 2953 Tubing Size Weight Internal Diameter Set at 1995 2991 Type Completion (Describe) Type Fluid Production Water Yes / No Yes Single Gas Type Completion (Describe) Type Fluid Production Water Yes / No Nitrogen Cas Gravity - Q. Annulus Vertical Depth(if) Single Gas Vertical Depth(if) Resource Size Meter (inches) Pressure Buildup: Shut in	Delivera	bilty		lest Date /-9-	e: 人名			AF 15	71 No. 15 -071-201 5	3-0000	
County County Corelley County	Company Horseshoe	Operating	Inc	//					7011-2013	7.1-	Well Number
See	County			Section		<u> </u>	<u> </u>	BNG /E			
Bradshaw U. Ft. Riley Completion Date Completion Date Pitug Back Total Depth 1880 Packer Set at None Packer Set at 1978 Packer Set at 19		NV	V NW						J 11)		
Casing Size	Bradshaw									ection	
4.5 10.5 3.9 3030 2936 2953 Tubing Size Weight Internal Diameter Set at 2.375 4.7 1.995 2991 Tippe Completion (Describe) Type Fluid Production Water Yes / No Yes /	6/1978	te			k Total Dep	oth					
Tubing Size 4.7 1.985 1.995 Type Completion (Describe) Type Fluid Production Water Producing Thru (Annulus / Tubing) Pressure Buildup: Shut in					Diameter						
Type Completion (Describe) Single Gas Water Type Fluid Production Water Type Fluid Production Water Producing Thru (Annulus / Tubing) Resource Taps (Meter Run) (Prover) Resource Buildup: Shut in					Internal Diameter		Set at				
Producing Thru (Annulus / Tubing) Annulus Vertical Depth(H) Joseph Gas Gravity - Go Annulus Vertical Depth(H) Joseph Gas Gravity - Go Annulus Pressure Taps (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus Pressure Taps (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (Meter Run) (Prover) Joseph Gas Gravity - Go Annulus (AM) (PM) Taken	Type Completion Single Gas	n (Describe)	·	Type Fluid	d Productio		· •	Pump U	nit or Traveling	Plunger? Yes	/ No
Vertical Depth(H) 3030 Pressure Buildup: Shut in	Producing Thru	(Annulus / Tu	bing)		arbon Dioxi	ide			en	Gas G	ravitu - G
Pressure Buildup: Shut in		·						, , , , , , , ,	,	cas c	ravity - G _g
Started 20 at (AM) (PM) Taken 20 at (AM) (PM) (PM) (AM) (PM) (PM) (AM) (PM) (AM) (PM) (PM) (AM) (PM) (PM) (AM) (PM) (AM) (PM) (PM) (PM) (AM) (PM) (PM) (PM) (AM) (PM) (PM) (PM) (AM) (PM) (PM) (PM) (PM) (AM) (PM) (PM) (PM) (PM) (PM) (PM) (PM) (P		")		***	Pres	sure Taps		<u>.</u>		(Meter	Run) (Prover) Siz
Started 20 at (AM) (PM) Taken 20 at (AM) (PM) (PM) Taken 20 at (AM) (PM) (PM) (PM) (PM) (PM) (PM) (PM) (P	Pressure Buildup	o: Shut in	1-8	20/3 at_	8:15	(AM) (PM)	Taken	1-0	920	13 at 8.	15 AM (PM)
State / Orifice Size Property (inches) $P_{robstyre}$ $P_{robstyr$	Well on Line:	Started		20 at	·	(AM) (PM)	Taken		20	at	(AM) (PM)
State / Orifice Size Property (inches) $P_{robstyre}$ $P_{robstyr$					OBSERVE	D SURFACI	E DATA			Duration of Shut	-in24_Hot
Property (inches) Proper Pressure paig (Pm) Inches H ₂ 0		e Mete	r Differential	I_ • [Nibing		
Shut-in , 750 Flow STREAM ATTRIBUTES Flow STREAM ATTRIBUTES Plate Coefficient (F _s) (F _p) Prover Pressure pala Plane (Cubic Feet pala Plane) (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P _s) ² = (P _w) ² = (P _w) ² = (P _s) ² - P _s (P _c) ² - P _c) ² (P _c) ² - P _c (P _c) ² - P _c (P _c) ² - P _c) ² (P _c) ² - P _c (P _c) ² - P _c) ² (P _c) ² - P _c) ² (P _c) ² - P _c) ² (P _c) ² - P _c) ² (P _c) ² (P _c) ² - P _c) ² (P	_*	s) Prover Pre	4		•	(P _w) or (P	1) or (P _c)	(P _w) or			(Barrels)
Flow STREAM ATTRIBUTES Plate Coefficient (F _p) (F _p) Motor or Prover Pressure psla (OPEN FLOW) (DELIVERABILITY) CALCULATIONS $P_{p}^{2} = \frac{(P_{p})^{2} - (P_{p})^{2}}{(P_{p})^{2} - (P_{p})^{2}} = \frac{(P_{p})^{2} - (P_{p})^{2}}{(P_{p})^{2} - (P_{p})^{2}} = \frac{(P_{p})^{2} - P_{p}^{2}}{(P_{p})^{2} - (P_{p})^{2}} = \frac{(P_{p})^{2} - (P_{p})^{2}}{(P_{p})^{2} - (P_{p})^{2}$	Shut-In . 75	0	•	 		psig		psig	psia	2/1	
Plate Coefficient Coefficient Coefficient Coefficient Coefficient (F_b) (F_p) Model or pala Prover Pressure pala (OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P_a) (P_a							<i>\$5</i>	<u> </u>		<i>8</i> T	
Plate Coefficient (F_b) (F_p) Motor or Prover Pressure psla ($P_m \times h$) $P_m \times h$ (LOW STR	EAM ATTRI	BÚTES			·	
			Press					. 1		- 	Floritor
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS $(P_a)^2 = $	(F _b) (F _p)	Prover Pressure	• [Factor		Factor	Fac	tor	R	(Cubic Fe	et/ Fluid Gravity
$P_{c})^{2} = $,		,		_		 			 -	G _m
$ P_{c})^{2} = $				(OREN ELON				<u> </u>	,		
	P _c) ² =	: (P _w) ²	·=;						•		
or formula 3-de 2 n x LOG Antilog Deliverability Antilog Deliverability Antilog Equals R x Ar	(P)2+ (P)2	(D \2 - (D \2			- 7	· · · · · · · · · · · · · · · · · · ·		T =		(r d)	
	or (P _c) ² - (P _d) ²	(2. P _c ² . P _d ²	formula 1. or 2. and divide	2 . p 2	Ass	origned	пхы	OG	Antilog	Deliverability Equals R x Antilog
pen Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia	pen Flow		Mcfd @ 14 A	55 psia	•	Delivershit	itv			-t-1 @ -1	
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 undersign	ed authority,			es that he			make the			
e facts stated therein, and that said report is true and correct. Executed this the				and correct. E	Executed th RECE	nis the IVED	3 •	/	lpril	And that he had	, 20 3
Witness (if any) APR 1 1 2013				EAGRAN			Ja	nicl	ForCor	npany y	
For Commission Checked by CONSERVATION DIVISION WICHITA, KS		For Com	mission	(CONSERVAT	ION DIVISIO	N		Checke	d by	

exem and the correct of equ	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc. Let the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease record ipment installation and/or upon type of completion or upon use being made of the gas well herein named ereby request a one-year exemption from open flow testing for the Sleigh 1
	ell 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 rther agree to supply to the best of my ability any and all supporting documents deemed by Commiss necessary to corroborate this claim for exemption from testing.
Date: _	4-3-13 Signature: Janice Ripley Title: Production Assistant

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.