KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:				(See Instruc	tions on Re	verse Sid	θ)					
o	pen Flow			Test Dat	٥.			ΛC	DI No. 15				
Deliverabilty				2-2-12				API No. 15 15-071-20040 000/					
Compan Horsesh		erating, Inc.	· · · · · · · · · · · · · · · · · · ·	<u> </u>		Lease Beard			*	1	Well Nu	mber	
County Location Greeley C SE		ion	Section 36				RNG (E	E/W)	 	Acres A	Attributed		
Field Bradsha				Reservoi				Gas Ga	athering Conr	nection			
Completi	•			, , , , , , , , , , , , , , , , , , , 	k Total Dep	th	· <u></u>	Packer		·····			
3/19/73			 	2798			None					1 . 	
Casing Size Weight 4.5" 9.5		ıı	Internal	Diameter			277	orations 70	то 2775				
Tubing Size Weight 2"		it	Internal I	Diameter		Set at Perfo 2748		orations	То				
Type Cor Single		(Describe)		Type Flu Water	id Productio	n		Pump U Yes	Init or Traveling	g Plunger? Yes	/ No		
Producini Annulu:	•	Annulus / Tubing	9)	% (Carbon Dioxi	de	-	% Nitro	gen	Gas Gr	avity - G	i _o	
Vertical E		<u> </u>			Pres	sure Taps				(Meter I	Run) (Pr	over) Size	
 			2-1 2	12	8.30			2-2		12 8:2	<u></u>		
Pressure	•									12 at 8.3		AM) (PM)	
Well on L	_ine;	Started	21	U at		(AM) (PM)	Taken	<u>-</u>	20	at	(/	4M) (PM)	
<u> </u>	ľ	Circle one:	Pressure		OBSERVE	D SURFACE		γ		Duration of Shut-	<u>ր_2</u>	4 Hours	
Static / Dynamic	Orifice Size	Meter Prover Pressu	Differential	Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure (P_) or (P ₁) or (P ₂)		Tubing Wellhead Pressure		Duration (Hours)	Liquid Produced (Barrels)		
Property	(inches) psig (Pm)	inches H ₂ 0	t	t	psig psig	psia	psig	r (P ₁) or (P _c)		(B	arreis)	
Shut-In	.50	_				88		ļ		24			
Flow					,						<u> </u>		
	-1			<u> </u>	FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiec (F _b) (F Mcfd	ient	Circle one: Meter or Prover Pressure psia Press Extension ✓ P _m x h		Gravity Factor F		Flowing Emperature Factor Fit Deviation Factor Factor Fpv		ctor	Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	ot/	Flowing Fluid Gravity G	
				(OPEN FLO	OW) (DELIVI	ERABILITY)	CALCUL	ATIONS		(P_)²	= 0.20		
(P _e) ² =		(P _*)² =	<u> </u>	P _a = .		6 (P _o	- 14.4) +	14.4 =	:	(P _a)²			
(P _c)² - (F	1	(P _c) ² - (P _w) ² 1. P _c ² - P _c ² 2. P _c ² - P _c ² divided by: P _c ² - P _c ²		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Deliv Equals I	Open Flow Deliverability quals R x Antilog (Mcfd)	
					-								
Open Flow Mcfd @ 14.65			'E asia	Politica de la Constantina del Constantina de la Constantina del Constantina de la C			Note & 14.05						
· · · · · ·		ad authority				Deliverabili				Mcfd @ 14.65 psia			
		ed authority, on ein, and that sai				1	/	make th	e above repor	rt and that he has	: knowle	dge of 12.	
•			Ĭ		RECE	EIVED	\bigcirc	nicl	رمد کار	leis		_ _	
•		Witness (if	any)			8 2012	1	· IVA	For Co	ompaul			
	*. *	For Commis	sion			A TOIT	-		Checi	ked by			

KCC WICHITA

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 Beard #1
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: 4/16/12
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.