KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Te	st:				(See Instruc	tions on Re	verse Side	⁹⁾ \	C 071	20228	$-\infty$
□ o	pen Flow							1	2011	- 20 1/0	-00-00
	eliverabilty	<i>'</i>		Test Dat	5/10			A£			
Compan	ıv		T. 1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1	0/5	7/10	Lease					Maria National
Horses	shoe Op	perating, In	ıc.			Watso	n E			3	Well Number
County Greele	:y	Loca	tion	Section 12		TWP 20S		RNG (E	E/W)		Acres Attributed
Field		4.1		Reservoi					thering Conn	ection	
Bradsh		·	· · · · · · · · · · · · · · · · · · ·	Towar		At.			Viidstream	.*	
11/15/0	03		·	2851	ck Total Dep	·		Packer None	·		
Casing S 4.5		Weig 10.5		Internal 4.052		Set a 2852		Perf 282	orations 28	то 2834	
Tubing S 2.375	ize	Weight	ht	Internal I 1.995	Diameter	Set a 284 (Perfe	orations	То	
Type Cor Single	npletion (I	Describe)		Type Flui Water	d Production	n		Pump U Yes	nit or Traveling	Plunger? Yes	/ No
Producing	g Thru (A	nnulus / Tubin	g)	% C	Carbon Dioxi	de		% Nitro		Gas G	avity - G
Annulus	-								3	000 0	avity - O _g
Vertical D	epth(H)					sure Taps	· · · · · · · · · · · · · · · · · · ·	-		(Meter	Run) (Prover) Size
	Buildup:	Shut in	814 ,	0 10 at _	3:23	ange		81:	5 "	10 at 3,2	5
Well on L		Started	2	•						at	_
			· · · · · · · · · · · · · · · · · · ·								
		Circle one:	Pressure	ı ———	OBSERVE	D SURFACE Casi		T	T. b. l	Duration of Shut-	in 4 Hour
Static / Dynamic	Orifice Size	Meter Prover Pressi	Differential	Flowing Temperature	Well Head Temperature	Wellhead I	Pressure	Weilhe	Tubing ead Pressure	Duration	Liquid Produced
Property	(inches)	psig (Pm)	Inches H ₂ 0	t	t	(P _w) or (P _t	psia	psig	or (P _t) or (P _c)	(Hours)	(Barrels)
Shut-In							90		poni	911	
Flow										8T	
		.l			FLOW STR	EAM ATTRI	BUTES				
Plate		Circle one:	Press			Flowing					
Coeffieci		Meter or	Extension	Grav Fact	· 1 T	emperature	1	ation ctor	Metered Flov R	V GOR (Cubic Fe	Flowing
(F _b) (F _p Mcfd) Pr	over Pressure psia	√ P _m xh	F,		Factor F ₁₁	1	pv	(Mcfd)	Barrel)	Gravity
	_			+ `		'11		· <u></u> .			G _m
		¥.5									
(P _c) ² =	:	(P _w) ² =	:	OPEN FLC	OW) (DELIVE %	ERABILITY)	CALCUL. 14.4) +			-	2 = 0.207
			Choose formula 1 or 2;	1			<u> </u>			(P _d)	
(P _c) ² - (P	*) ₅ (Ł	P _c)2 - (P _w)2	1. P _c ² -P _n ²	LOG of formula		Slope	sure Curve ∋ ≈ "n"	пх	106		Open Flow Deliverability
(P _c)2- (P	_d)2		2. P _c ² -P _d ²	1. or 2, and divide	P.2 - P.2		origned	" "		Antilog	Equals R x Antilog
* * * *		· · · · ·	divided by: $P_c^2 - P_w^2$	by:	<u> </u>	Standa	rd Slope				(Mcfd)
			·								
Open Flow			Mcfd @ 14.6	35 psia		Deliverabil	ity		1	Mcfd @ 14.65 psi	a
The ur	ndersigned	d authority, on	behalf of the	Company, st	ates that he	is duly aut	horized to	make th	ne above repo	rt and that he ha	s knowledge of
			id report is true				11	day of	Octobe	\mathcal{U}	.20 10
							On	niel)	Rind	ILL RI	=CFIVFD
		Witness (if	any)			-	Jul		For C	ompany	T 4 1. 2010
·		For Commi	ssion			_			Chec	ked by	T 1 4 2010

l c	leclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request					
exemp	t status under Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.					
	at 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 records					
	pment 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					
	Il on the grounds that said well:					
	(Check one)					
	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					
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission					
	necessary to corroborate this claim for exemption from testing.					
	101111					
Date:						
	Signature: <u>Sanicl Ripliy</u>					
	Signature.					
	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.