KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:			(See Instructi	ions on Reve	erse Side	י					
	pen Flov			Test Date				API	No. 15	_	_		
De	eliverabil	ty .		2-3-1	/			15-	071-20756	<u>3- ()()()</u>	OO		
Company Horses		perating, I	nc.			Lease Ross				5	Well Number		
County Location Greeley W/2 W/2			Section 5		TWP 18S		RNG (E/W) 39W		Acres Attributed				
Field Bradshaw					Reservair Winfield			Gas Gathering Connection DCP Midstream					
Completi 8-5-200				Plug Bac 2947	k Total Dept	h		Packer S	Set at				
Casing S 4.5	Casing Size Weight 4.5 10.5			Internal E 4.052	Diameter	Set at 2947		Perforations 2909		то 2920			
Tubing S 2.375	ize		ight	Internal C 2.000	Diameter	Set at 2940		Perfo	rations	То			
Type Completion (Describe)					Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No Yes				
Producing	g Thru (Annulus / Tub	oing)		arbon Dioxid	de		% Nitrog	en	Gas Gra	avily - G _g		
Casing Vertical D					Proce	sure Taps				(Meter F	Run) (Prover) Size		
verucai L	Jepin(n)				Flang	•				(INCIBI I	idil) (i TOVCI) OIZO		
Pressure	Buildup	: Shut in	2-2 2	0 // at _	1:15	(AM) (PM)	Taken	2:	3 20	11 at 9:15	5 (AM) (PM)		
Well on L	ine:	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)		
	,		·-·		OBSERVE	D SURFACE		,		Duration of Shut-	in <u>24</u> Hours		
Static / Dynamic Property	Orific Size (inche	Prover Pre	r Differential	Flowing Temperature t	Well Head Temperature t	Casir Wellhead P (P ₊) or (P _t)	ressure or (P _c)	Wellhe	lubing ad Pressure r (P _i) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	.50		m) Inches H ₂ 0			psig	71	psig	psla	24			
Flow													
			 		FLOW STR	EAM ATTRU	BUTES						
Plate Coeffied (F _b) (F Mote	cient = _p)	Circle one: Meter or Prover Pressure psla	Press Extension P _m x h	Grav Fact F _s	tor T	Flowing femperature Factor F _H	Fa	tation actor _{pv}	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	l Gravitu		
													
(P _p) ² =		.: (P <u>.</u>)	²= :	(OPEN FLO		ERABILITY) % (P.	CALCUL - 14.4) +		:	(P _s) (P _d)	² = 0.207 ² =		
(P _a) ² - (I	P _a) ²	(P ₄)²- (P ₄)²	Choose formula 1 or 2 1. P2-P2 2. P2-P2 andded by: P2-P2	LOG of formula 1, or 2. and divide	P, 2 - P, 2	Backpres Slope Ass	sure Curve = "n" or igned rd Slope	•	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
		,											
						<u></u> _				i			
Open Flo	w		Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 ps	ia		
			on behalf of the				thorized 24	day of _	May	ort and that he ha	as knowledge of, 20		
		Witne	as (if any)			-	7	ance		Company RE	CEIVED		
		For Co	ommission		<u> </u>	_			Che	cked by MA	Y 2 7 2011 -		

	clare 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.
	t 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
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
	reby request a one-year exemption from open flow testing for the Ross #5
	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 fur	ther 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.
Date: 2	5-24-11
Date:	
	Signature: <u>Janue Ripley</u> 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.