KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Instruct	ions on Reve	rse Side	9)					
Open Flow Deliverability						Test Date:				No. 15	200				
Company			,		·	1-13-1	2	Lease		- 07	1-20791-00)UU	Well N	umber	
)pe	rating, Inc) .		. .		Barr				2-1			
County Location Greeley C NW				Section 16		TWP 17S		RNG (E/W) 40W			Acres	Attributed			
Field Bradshaw					Reservoir Winfield			Gas Gathering Connection DCP Midstream							
Completion Date 9/10/04				Plug Bac 3026	k Total Dept	h	Packer Set at		Set at						
Casing Size 4.5			Weight 10.5			Internal (4.052	Internal Diameter 4.052		Set at 3036		Perforations 2962		To 2969		
Tubing Size 2.375			Weigh 4.70	ıt	Internal 2.0000			Set at	t Perfo 297		rations 5	To 29	B1		
Type Completion (Describe) Single				Type Fluid Production Water				Pump Unit or Traveling Plunge Pump Unit			es / No	· · · · · · · · · · · · · · · · · · ·			
Producing	Thru	(Anr	nulus / Tubin	g)		% C	arbon Dioxid	te		% Nitrog	en	Gas	Gravity -	G,	
Vertical D	epth(H)					Press	sure Taps		•		(Me	ter Run) (F	Prover) Size	
Pressure	Sudda	n: !	 Shut in	_	1-12 2	o 12et	10:30	(AM) (PM) T	aken	1-1	3 20,	12 at 10	0:30	(AM) (PM)	
Well on Li							•				20			(AM) (PM)	
							OBSERVE	D SURFACE	DATA			Duration of S	hut-in	24 Hours	
Static / Orifice Dynamic Size Property (inches)		В	Circle one: Meter Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	1 .	id Produced (Barrels)	
Shut-In		psig (Pm)		-	Inches H ₂ 0			psig	108	psig	psia	24			
Flow															
							FLOW STR	EAM ATTRIE	UTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psla			Press Extension ✓ P _m x h	Fac	Gravity Factor T		rature Factor tor F _{pv}		Metered Flow R (Mcfd)	(Cubi	OR c Feet/ rrel)	Flowing Fluid Gravity G _m	
<u> </u>	<u> l</u>			<u>L</u>											
(P _c)² =		_:	(P _w)² =		;	(OPEN FL	, ,	ERABILITY) (P _c	- 14.4) +		:		$(P_a)^2 = 0.5$ $(P_a)^2 = \underline{\qquad}$	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$		(P _c) ² - (P _w) ²		;	poer formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ the d by: $P_c^2 - P_a^2$	LOG of formula 1, or 2. and divide	formula 1, or 2. and divide p_2_p 2		Backpressure Curve Slope = "n"or Assigned Standard Slope		n x LOG		De	pen Flow Ilverability s R x Antilog (Mcfd)	
0 51						S5 asia		Dalkarakil				Nord @ 14 St	i noio		
Open Flo		iace	d outboribe o	n h	Mcfd @ 14.	 	etatos that h	Deliverabil		to make *	he above repo	Mcfd @ 14.65		wladge of	
		-	in, and that s					_	_ /		Marc	Z1	/	20 12.	
			3	68	-^			_	(Jan	ice R	iple	1-RI		
			Witness							0		An apparty	/ 131	-OFIAED	
			For Com	nissi	on			,			Che	cked by	MA	R 2 8 2012	

l 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 Barr 2-16 gas well 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 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: $3-26-12$
Signature: <u>Janice Ripley</u> Title: <u>Production</u> 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 Decembér 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.