KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:			(See Instruct	ions on Rev	erse Side)	9				
	pen Flow			T B			•	ADI	No. 15				
□ 0	eliverabilt	y		Test Date /-/3-	_			15-	No. 15 071-2008 5	00-00-			
Compan				1/5	<i></i>	Lease					Well No	ımber	
		perating, In	C.	•		Barr				1			
County		Locat		Section		TWP		RNG (E/	W)			Attributed	
Greeley C SW			16	16 17S			40W			640	<u></u>		
Fleid Bradsh	naw	<u>.</u>		Reservol L. Win	r field/U.Ft.	Riley		. DCP	noring Conne Midstrea				
Completion Date 11/1975			9033 3033	Plug Back Total Depth 3033			Packer Set at None						
Casing Size Weight 4.5 10.5			Internal I 4.95	Diameter	Set at 3050		Perforations 2964:-		то 3007				
Tubing S 2.375	Tubing Size Weight 2.375 4.7		Internal I 1.995	Internal Diameter 1.995		Set at 3023		Perforations					
Type Completion (Describe) Single Gas				Type Flui Water	Type Fluid Production Water			Pump Un Yes	it or Traveling	/ No			
Producing	g Thru (/	Annulus / Tubin	g)	% (arbon Dioxid	de		% Nitrog	en	Gas G	ravity - (3,	
Annulu							<u> </u>		<u>.</u> .				
Vertical D	Depth(H)				Press	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildup:	Shut in	1-12 2	0/2 at L	0:45	(AM) (PM)	Taken	1-1	<u>3</u> 20,	12 at 10:4	15	(AM)(PM)	
Well on L	line;	Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shut	i-in	74 Hours	
Static / Orifice Dynamic Size Property (Inches)		Circle one: Mater	Pressure Differential	Flowing Well Hea		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liqui	Liquid Produced	
		Prover Press	ure in	Temperature T	Temperature t	(P,) or (P,) or (P,)			(P _t) \((P _e)	(Hours)		(Barrels)	
		psig (Pm)	Inches H ₂ 0			psig	psta	psig	psia		<u> </u>		
Shut-In	1.00	7					90		 	<u> 24</u>	_		
Flow						<u> </u>							
					FLOW STR	EAM ATTRI	BUTES						
Plate	,	Clicite and:	Press	Grav	rity	Flowing	Dev	iation	Metered Flow	GOR		Flowing	
Coeffied	1 .	Meter or Prover Pressure	Extension	Fac	or Temperature		Factor		R	(Cubic F	eet/	Fluid Gravity	
(F _b) (F _p) Pn Mcfd		psla	√ P _m xh	F,	,	F _{it}		pv	(Mcfd)	Barre	Ŋ	G _m	
i 	<u> </u>			(ODEN EL	NO (DEL 1) (CALCUI	ATIONS					
(P _e) ² =	<u> </u>	(P _w) ² =	:	P _d =		ERABILITY) 6 (P,	- 14.4) +		<u> </u>) ² = 0.2) ² =	207	
(P_)2 - (f	D /5	(P_)2- (P_)2	Choose famula 1 or 2:	LOG of	Γ		sure Curve		r ¬ {		0	pen Flow	
or	•	V-2/ V-W/-	2, P. P.	formula 1. or 2.			e = "n" Of	. пх	LOG	Antilog		liverability 3 R x Antilog	
(P _a)*- (F	P.)*		divided by: P.2 · P.2	and divide	P 2 - P 2		igned ird Slope	ł			. 1	(Mcfd)	
		···		+		 					 	·	
						<u> </u>							
Open Flow	<u>-</u>	. 1	Mcfd @ 14.	65 psia		Deliverabi	lity		1	Mcfd @ 14.65 ps	sia		
The u	ındersign	ed authority, o	,		tates that he	e is duly aut	thorized t	o make ti	ne above repo	rt and that he h	as know	rledge of	
lhe facts si	lated the	ein, and that sa	ald report is true	and correct	t. Executed	this the	26	day of	Mar	ch_	 .	20 12	
							_0	anie	e Ri	plus	REC	EIVED	
		Witness (f any)				0			fompany ()	MAR	2 8 2012	
		For Corner	lasion			_			Chec	cked by			

penalty of perjury under the laws of the state of Kansas that I am authorized to request
Rule K.A.R. 82-3-304 on behalf of the operator Horseshoe Operating, Inc.
ng pressure information and statements contained on this application form are true and
my knowledge and belief based upon available production summaries and lease records
tion and/or upon type of completion or upon use being made of the gas well herein named.
a one-year exemption from open flow testing for the Barr #1
nds that said well:
99)
a coalbed methane producer
cycled on plunger lift due to water
a source of natural gas for injection into an oil reservoir undergoing ER
on vacuum at the present time; KCC approval Docket No.
not capable of producing at a daily rate in excess of 250 mcf/D
supply to the best of my ability any and all supporting documents deemed by Commission corroborate this claim for exemption from testing.
2
Signature: Janice Ripley Title: Production Assistant
f a t 7 5 5 5 6 0 0

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.