KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Te	st:					(See Instruc	tions on Reve	erse Side)		ı			
0	pen Fl	OW												
Deliverabilty				Test Dat	7-3-11				API No. 15 15-075-20761 - (\(\)					
Compan					<u> </u>	/ !	Lease			-013-2010		Well N	umbor	
Horseshoe Operating, Inc.						Dikeman					2	**********	umoei	
County Location			Section		TWP		RNG (E/W)		Acres Attributed					
Hamilton C-S/2			10		22S									
Field Bradshaw					Reservoir Winfield		Gas Gathering Co		-					
Completion Date			Plug Back Total				DCP Midstre Packer Set at				n			
8-2-20					2767					50. u.				
Casing Size			Weigh	t	Internal Diameter		Set at		Perforations		То			
4.5			10.5 Weigh	<u> </u>	4.052		2769		2729		2738			
Tubing Size 2.375			4.7	i.	Internal Diameter 2.0000		Set at 2851		Perforations		То			
Type Completion (Describe)					Type Flui	d Production		Pump Unit or Travel			ng Plunger? Yes / No			
Single gas				Water	Water									
Producing Thru (Annulus / Tubing)					% (% Carbon Dioxide				jen	Gas Gr	Gas Gravity - G		
Casing Vertical C		1)	-			Dren	sure Taps		-		/64_4	24-1 /5	rover) Size	
10.000	op.i.i(i	"				Flan					(Meter)	// //	rover) Size	
D	5			-2	.11				7-3)L at 9:4	5	$\overline{}$	
Pressure							•					•	(AM) (PM)	
Well on L	Jne:		Started	2	0 at		(AM) (PM) T	aken		20	at		(AM) (PM)	
						OBSERVE	D CUDEACE	DATA			S) <u>//</u>	
Static /	Orlfice Circle and: Pressure Flowing			OBSERVED SURFACE DATA Gasing			Tubing		Duration of Shut-	ration of Shut-in <u>AF</u> Hou				
Dynamic Size Property (Inche		е	Meter Prover Pressu	Differential	Flowing Temperature	Well Head Temperature	ead Wellhead Pressure		Wellhead Pressure		Ouration		Liquid Produced	
		hes) psig (Pm)		Inches H ₂ 0	t	t	(P _w) or (P ₁) or (P ₆) psig psia		(P _w) or (P _t) or (P _c)		(Hours)	(Barrets)		
Shut-In	6	25					10				24			
Flow		-	-					<u> </u>						
<u> </u>	L		<u> </u>			<u> </u>			<u> </u>					
Disas			Circle one:	-,-		FLOW STR	EAM ATTRIE	UTES	· ·				 1	
Plate Coefficient (F _b) (F _p) Mcfd		Mater or Prover Pressure pala		Press Extension	Grav Fact	· 1 7	Flowing Temperature	Dev		Metered Flov		_4.5	Flowing Fluid	
				✓ P _m xh	F		Factor F ₁₁		ctor : pv	R (Mcfd)	(Cubic Fe Barrel)	el) Gravity		
							<u></u>						G _m	
													<u> </u>	
					(OPEN FLO	OW) (DELIV	ERABILITY) (CALCUL	ATIONS		(P.)	² = 0.2	207	
(P _c) ² =		_:_	(P _w) ² =	;	P _{.d} =	9	% (P _c	- 14.4) +	14.4 = _	;;	(P _a)			
(P _e)2- (P _a)2		(P	,)*- (P_)*	hoose formule 1 or 2:	LOG of			Backpressure Curve Slope = "n"		ר ח		Open Flow		
or (P_)2- (P_)2				2, p 2 p 2 1, or 2.		or		r	n x	rog	Antilog		Deliverability Equals R x Antilog	
(P _a)*- (P _a)*		1		Moded by: P ₂ P ₂ 2	and divide		P 2 P 2 Assigned Standard Sk					· (Mcfd)		
1				· · · ·										
							 						-	
					1		<u> </u>					L		
Open Flow Mcfd @ 14.65 psia							Deliverability			Mcfd @ 14.65 psia				
The u	ındersi	gned	authority, on	behalf of the	Company, s	tates that he	e is duly auth	orized to	o make ti	ne above repo	rt and that he ha	s know	dedge of	
				d report is true) <i>4</i>		mil			II	
			, unu mat Sa	u report is true	and correct	. Executed	uns ine	`	day of	h. #	<u></u>	·	20 <u>II</u> .	
		•		<u>.</u>				an	ce	Kiple	1	KE	CEIVED	
			Witness (il	any)			7	,		For	ompany	MAY	2 7 201	
			For Commi	sion	- <u></u>					Che	ked by	MIMI	21 201	

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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 Dikeman #2
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: 5-24-11
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 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.