KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	st:					(See Instruc	tions on Rev	erse Sid	e)				
□ o	pen Flov	N											
D	eliverabi	ilty			Test Dat 5-10-	e: ./ ()	•			l No. 15 5-20672-00-	00		
Compan	ıy .				<u> </u>	70	Lease					Well I	Number
Horseshoe Operating, Inc.			Johnson							1A			
County Location			Section				RNG (E	Acres Attributed					
Hamilto		E/2	SW	7	12	· · · · · · · · · · · · · · · · · · ·	245		41W				<u></u>
Field Bradshaw			Reservoi Winfield	I		Gas Gathering Oneok			ection				
Completi 6/30/98	ion Date	9			Plug Bac 2361' T	k Total Dep D	th		Packer	Set at			
Casing S 4.5	ing Size Weight 10.5		•	Internal Diameter 4.052		Set at 2360		Perforations 1850-51		то 2320-23			
	oing Size Weight		•	Internal Diameter		Set at		Perforations		То			
2.375 4.7			2.000		2333		2323		2327				
Type Completion (Describe) Single			Type Fluid Production Water				Pump Unit or Traveling Plunge Pump Unit - Rod			s / No			
Producing	-	(Annulus / Tu	bing)	· · · · · · · · ·	% (Carbon Dioxi	de		% Nitrog		Gas	Gravity -	- G _g
Vertical E		<u> </u>				Pres	sure Taps				(Mete	r Run) /	Prover) Size
		•				Flan	•				2"	, , , , , , , , , , , , , , , , , , ,	r lovely dize
Pressure	Buildup	: Shut in _	5	-9 2	0 10 at_	1:00	(AM) (PM)	Taken	5-1	020	10 at 1.	00	(AM) (PM)
Well on L	.ine:	Started		2	0 at	·	(AM) (PM)	Taken		20	at		(AM) (PM)
170	,				· ·	OBSERVE	D SURFACE	DATA			Duration of She	 ut-in ≤	24 Hours
Static /	tic / Orifice Circle one:			Pressure Flowing Well Head			Casing		Tubing		5		
Dynamic Size Property (inches)		Prover Pre	Meter Prover Pressure		Temperature t	Temperature t	Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)
		psig (P	m)	Inches H ₂ 0			psig	psia	psig	psia	- A./		
Shut-In	.50	0						46			24		
Flow		;			_								
						FLOW STR	EAM ATTRIE	BUTES					
Plate		Circle one:		Press	Grav	itv	Flowing	Dev	ation	Metered Flov	v GOI		Flowing
Coefficient (F _b) (F _p) Pr		Meter or Prover Pressure	Meter or over Pressure		Fact	· 1 T	Temperature Factor Fa		actor R		(Cubic		Fluid
Mcfd	°'	psia	·	Pmxh	F,		F _{II}	F	pv	(Mcfd)	Barre	el)	Gravity G _m
				7									
					(OPEN FLO	OW) (DELIVE	ERABILITY)	CALCUL	ATIONS	· · · · · · · · · · · · · · · · · · ·	 !,		
P _c) ² =		: (P _w)	² =	:	P _d = .	%	•	- 14.4) +		•		$\binom{1}{2} = 0.$ $\binom{1}{2} = 0.$	207
		<u> </u>	Cho	ose formula 1 or 2:	1		Backpress						
(P _c)² - (P	° ₂) ²	(P _c) ² - (P _w) ²	1	1. P _c ² · P _a ²	LOG of formula		Slope	= "n"	nxl	.og	Antilog		Open Flow eliverability
(P _c) ² - (P) ²		1	2. P _c ² -P _d ²	1. or 2. and divide	P _c ² - P _w ²	Assig	,			Antilog		Is R x Antilog
·		·	divid	ed by: Pc2 - Pw2	by:	<u> </u>	Standar	d Slope		·		 '`	(Mcfd)
			ļ	-11	<u> </u>								 -
." 1			<u> </u>										
pen Flow Mcfd @ 14.65 psia				Deliverability			Mcfd @ 14.65 psia						
The u	ndersigr	ned authority,	on be	ehalf of the	Company, st	ates that he	is duly auth	orized to	make th	e above repo	rt and that he h	nas knov	vledge of
		rein, and that					1	H	Lay of	novem	1		20 10.
*								0		Pin	Pers		
	 ,	Witnes	s (if any)	4	·	· <u></u>	Ju	iuc	orC	ompany	R	CEIVED
		For Co	nmissio	1						Chec	ked by	NO	V 1 9 201

I declare under penalty of perjury under the laws of the exempt status under Rule K.A.R. 82-3-304 on behalf of the and that the foregoing pressure information and stateme correct to the best of my knowledge and belief based upon of equipment installation and/or upon type of completion or I hereby request a one-year exemption from open flow gas well on the grounds that said well:	operator Horseshoe Operating, Inc. ents contained on this application form are true and available production summaries and lease records upon use being made of the gas well herein named.
(Check one) is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection ir is on vacuum at the present time; KCC a ✓ is not capable of producing at a daily ra	approval Docket No ate in excess of 250 mcf/D
staff as necessary to corroborate this claim for exemption Date: 11-17-10	O
//	Anuce Repley Juction 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.

TEMEN-

ulity