KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

Type Test	:				(See Instruct	tions on Reve	erse Side	9)						
= :	en Flow				Test Date) :			API	No. 15					
De	liverabil	lty			09/11/1:	2			15-	007-23080-0	00-00				
Company		ER	ATING CO	MPANY, LLC			Lease Harbaugi	h				#1	Well Nu	mber	
County Location BARBER N/2 NE SE				Section 13		TWP 34S		RNG (E/W) 12W				Acres Attributed			
Field				Reservoir			Gas Gatherir		hering Conn	nection		t	RECEIVE EC U 5 20 WICHI		
RHODES SOUTH Completion Date					SIPPIAN k Total Depi	th		ATLAS Packer Set at				D	EC U5 2		
1/25/07			5072			NONE					KOC	· 4.			
Casing Size 4.500		Weight 10.50			Internal C 4.052		Set at 5115		Perfo 465	rations 2	то 4812		''''	· WICHI	
Tubing Size 2.375		Weight 4.70		t	Internal D 1.995	Diameter	Set at 4862		Perfo OPI	rations EN	То				
Type Completion (Describe) SINGLE				Type Flui	Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING							
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitrogen			Gas Gravity - G				
ANNUL															
Vertical D 4905	epth(H))				Pres	sure Taps					(Meter	Run) (Pi	rover) Size	
Pressure	Buildup): S	Shut in 09/	11/12	0at		(AM) (PM)	Taken_09	9/12/12	20	at _		((AM) (PM)	
Well on L	ine:	5	Started	2	0 at		(AM) (PM)	Taken		20	at _		(AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration	of Shu	t-in	Hours	
Static /	Orific	e	Circle one: Meter	Pressure Differential	Flowing	Well Head	Casir	Casing Wellhead Pressure		Tubing Wellhead Pressure			Liquid Produced (Barrels)		
Dynamic Property	Size (inche	- 1	Prover Pressu	<i>ire</i> in	Temperature t	Temperature t	lemperature (P \ or (P \		1	ad Pressure r (P _t) or (P _c)	Duration (Hours)				
Shut-In		psig (Pm)		Inches H ₂ 0			psig 250	psia	psig psia		24				
Flow													+		
					L	FLOW STR	REAM ATTRIE	BUTES	L						
Plate			Circle one:	Press	Grav	vity	Flowing	Dev	riation	Metered Flov	v	GOF		Flowing	
Coeffiecient (F _b) (F _p)		Meter or Prover Pressure		Extension P _m x h	Fac F _c	ROF .	Temperature Factor		ector = pv			(Cubic F Barre		Fluid Gravity	
Mcfd			psia	m	1	9	F _{ft}		pv	(<u>, </u>	G _m	
					(OPEN EL	OW) (DELIN	ERABILITY)	CALCIII	ATIONS						
(P _c) ² =		_:	(P _w) ² =	:	•		•		· 14,4 =	:			$()^2 = 0.2$ $()^2 =$	07	
(P _c) ² - (P _a) ²		(P _c) ² - (P _w) ²		Choose formula 1 or 2	LOG of	$\overline{\Box}$		Backpressure Curve		ГЛ			Op	en Flow	
or (P _c) ² - (P _d) ²		('6) ('w)		2. P _c ² -P _d ²	formula 1. or 2.		Slope = "n" or Assigned		_ n x LOG		Antilog		Deliverability Equals R x Antilog		
(F ₀)-5 (F	d)	···········		divided by: P _c ² - P _w	and divide by:	P _c ² - P _w ²		rd Slope		L J			1 '	(Mcfd)	
													<u> </u>		
Open Flow		 Mcfd @ 14.65			65 peia	l 5 psia		Deliverability		Motel 6			② 14.65 psia		
		anad	Lauthority o	n behalf of the	· · · · · ·	statos that h			o maka ti					ladas et	
		-	•	aid report is tru			•			OVEMBER	ortano tra	at ne n		12	
14010 0	(1)		,		001190	Excouled			n R		W.	6	フ ・・	- -	
			Witness (i	f any)			_	Wu	1 K	For	Company T	152			
			For Comm	ission			_			Che	cked by				

exempt status und and that the foreg correct to the bes of equipment insta I hereby requ	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC going pressure information and statements contained on this application form are true and to fmy knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Lest a one-year exemption from open flow testing for the HARBAUGH #1 ounds that said well:
_	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 eto supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 11/28/12	Signature: Win R. Hallaugh. Title: FIELD MGR.

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.