## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(	See Instruct	tions on Re	verse Side	)				
Open Flow Deliverabilty				Test Date: 11/20/2011				API No. 15 - 077-20,268 - 0000					
Company Hayes O		as L	LC	- ··· ·	<del></del>	•	Lease Werner	В			1	Well Number	
County Harper			Location NE/NW		Section 18		TWP 32S			RNG (E/W) 9W		Acres Attribute	t
Fleld Sharon						Reservoir Mississippi			Gas Gathering Conner Explore		oration L	C	_
Completion Date 6/27/1974					Plug Bac 4350	lug Back Total Depth 350			Packer Set at		,	· • • • • • • • • • • • • • • • • • • •	
Casing Size 5 1/2			Weight 14		Internal Diameter 5.047			Set at 4334		Perforations open hole		4350'	_
Tubing Si 2 3/8	ze		Weight 3.75		Internal Diameter 2.067		Set at 4337		Perforations		То		_
Type Con	pletion	n (De	escribe)		Type Flui	d Production	n		Pump Un pumpir		Plunger? (es	/ No	
Single (Ga Producto) Thru (Ann Annulus			nutus / Tubing)		% C	arbon Dioxi	ide		% Nitrogen		Gas Gravity - G		
Vertical D						Pres	sure Taps				(Meter F	Run) (Prover) S	ize
Pressure	Buildu	n.	Shut in 11/2	0 2	0 11 at		(AM) (PM)	Taken 11	1/21	20	11 at	(AM) (P)	
Well on L											at		
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	In H	ours
Static / Dynamic Property	Dynamic Size		Circle one: Pressure Meter Differential Prover Pressure in psig (Pm) Inches H <sub>2</sub> O		Flowing Well Head Temperature Temperature t t		(P <sub>*</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Product (Barrels)	be
Shut-In			F	1			169. <b>G</b>	184.0	psig	psia	24		$\dashv$
Flow													
			- <sub>1</sub> -			FLOW STF	REAM ATTE	RIBUTES	<del></del>			1	<del></del> 1
Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Modd			Circle one: Meter or ver Pressure psia	Press Extension	Gravity Factor F <sub>e</sub>		Temperatura		viation Metered Flow R F <sub>pv</sub> (Mctd)		GOR (Cubic Fe Barrel)	Flowin Fluid Gravin G <sub>m</sub>	,
					(OPEN EL	OW) (DELIV	FRARII ITY	') CAL CUI	ATIONS			l	
(P <sub>c</sub> )2 =		<u>.</u> :	(P <sub>*</sub> ) <sup>2</sup> =_	:	P,=			P <sub>e</sub> - 14.4) +		:	(P <sub>a</sub> );	? = 0.207 ? =	
(P <sub>e</sub> ) <sup>2</sup> - (I or (P <sub>e</sub> ) <sup>2</sup> - (F	_	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> nded by: P <sub>c</sub> <sup>2</sup> - P <sub>a</sub>	LOG of formula 1, or 2, and divide	P. 2 · P. 2	Sio	essure Curve pe = "n" - or signed dard Slope	n x L	og [ ]	Antilog	Open Flow Deliverability Equals R x Ant (Mctd)	
								<del></del>					_
Open Flow			Mcfd @ 14.65 psia				Deliverat	Deliverability			Mcfd @ 14.65 psla		
		_	d authority, on n, and that said Wilness (if a	d report is true	and correc		this the 1		o make th		rt and that he ha	s knowledge o . 20 11	·
			For Commis	sion		<u> </u>	TOIL		-	Chec	ked by		

**KCC WICHITA** 

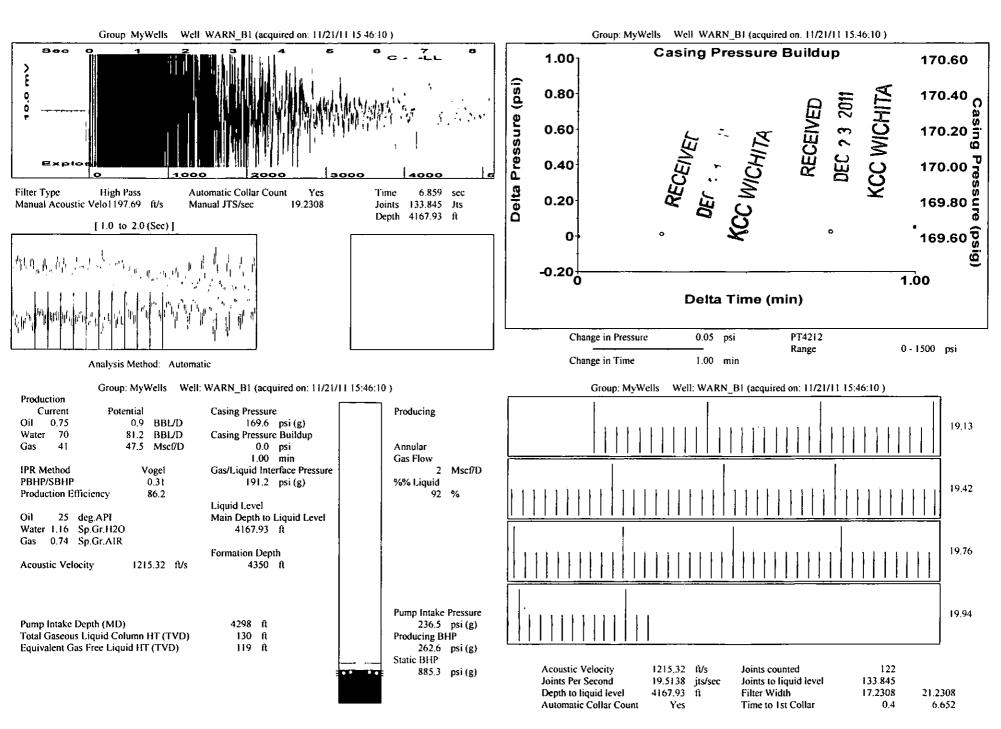
I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Hayes Oil and Gas LLC and that the foregoing pressure information and statements contained on this application form are true and 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 Werner B
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.
RECEIVED  DEC 23 2011  Signature: Slage 1. 9 layer  KCC WICHITA  Title: Products, Superintendit

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.



## Hayes Oil and Gas L.L.C

P.O. Box 108

Attica, KS. 67009

Conservation Division

Finney State Office Building

130 S. Market Rm. 2078

Wichita, KS. 67009-0108

R.E. Tests for Thompson A Lease and Werner Lease

Dear Mr. Hemmen:

Please find the enclosed tests for the Thompson A lease (Barber Co.) and the Werner (Harper Co). The test for the Thompson B lease will be sent shortly.

Please let apologize for the delay. The fluid levels and shut-ins were done back in the 11<sup>th</sup> month, but because of an error on my part they were not sent in.

Sincerely,

Shupe T. 9 bayer Shayne G. Hayes

Production Superintendent

RECEIVED

DEC 2 3

KCC WICHITA