## SIP TEST

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

Open Flow Deliverability					Test Date: 10-17-14				API No. 15 15-175-20471 -OD -OO						
Company A.E.S. INC.					Lease HIRN RANCH			ANCH			Well Number				
County Location SEWARD SW SE SW							TWP 33S				Acres Attributed 640				
Field ARKALON			Reservoir				Gas Gathering Conr ONEOK								
Completion Date 7-11-80					k Total Dept	h		Packer Set at NONE							
	Casing Size We		Weigi 10.5	nt		Internal E	Internal Diameter 4.090		Set at 6343		rations	то 5714			
Tubing Size 2.375			Weight 4.7			Internal Diameter 1.995		Set at 5621		5636 Perforations		То			
Type Con SINGLE							d Production		1	Pump Ur NO	it or Traveling	Plunger? Yes	/ No		
Producing	Thru	_	nulus / Tubin	g)			arbon Dioxi	de		% Nitrog	eu	Gas Gr	avity - C	à,	
Vertical C	UBING /ertical Depth(H)				Pressure Taps					<del></del> -			rover) Sizè		
5675			10·	-16-1	14 .	0	FLA1 900	• • •	10	)-17-14		3.068 at_0900			
Pressure Well on L												at		AM) (PM)	
	<del></del>				<u> </u>	<del></del>		D SURFAC				Duration of Shut-	70		
Static / Dynamic Property	namic Size		Circle one:  Meter  Prover Pressur		1 ' !		Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w) \propto (P_l) \propto (P_c)$		Duration (Hours)	Liquid	Liquid Produced (Barrels)	
Shut-In			psig (Pm)	- -	nches H <sub>2</sub> 0			184.7	psia 1991	psig 184.1	198.5	24.0			
Flow															
	1		<u>-</u>	<del></del> -	<u>.</u>		FLOW STR	EAM ATTR	IBUTES						
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ent p)	Circle one:  Meter or  Prover Pressure  psia		Press Extension P <sub>m</sub> xh		Fac	Gravity Factor F <sub>g</sub>		Flowing Deviation Factor F <sub>I1</sub>		Metered Flor R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>e</sub>	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> :	±	<u></u>	(OPEN FL	OW) (DELIV 		') Calcul ' <sub>e</sub> - 14.4) +		**************************************	(P₄) (P₀)	<sup>2</sup> = 0.2	:07	
(P <sub>a</sub> )² - (I or (P <sub>c</sub> )² - (I	P_)²	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Chanse formula 1 or 2: 1. $P_0^2 - P_1^2$ 2. $P_0^2 - P_0^2$ divided by: $P_0^2 - P_0^2$		LOG of formula 1. or 2. and divide by:	P <sub>2</sub> . P <sub>w</sub> <sup>2</sup>	Backpressure Cui Slope = "n" or 2 Assigned Standard Slope		n x	rog	Antilog	Open Flow Deliverability Equals R × Antilog (Mcfd)		
						1					<del>,</del> .		<u>L</u>		
Open Flo	-	iana	d authority o		Mcfd @ 14.	_	states that h	Deliverat		en maka ti	a above rece	Mcfd @ 14.65 ps ort and that he ha		dodeo of	
he facts s	tated t	here	n, and that s	ald re		• •	t. Executed	this the 1	7	day of	CTOBER			20 14	
	PPY	<u> </u>	Witness	(If any)	per	Clini	Kunasa	Receive	d COMMISSIO	ער אר	A.L.	Company + 1		ing_	
								THE PROPERTY OF							

CONSERVATION DIVISION WICHITA, KS

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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 A.E.S. 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 HIRN RANCH #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: 10-24-14 Signature: Chaumans Boyd
Title: Liffico USST

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.

Received
KANSAS CORPORATION COMMISSION