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

Comanche Neswes   23   32S   19W   160	Type Test	:				(	See Instruct	tions on Rev	erse Side	9)					
Company   Com	□ Ор	en Flo	w			Test Date	a·			ADI	No. 15				
ARES Energy, Ltd, 45 N. Namewherded, Suite 250, Midland TX 78701   City of Coldwater   23-15	Del	liverab	ilty									000			
Companies   NESWSE   23   32S   19W   160			td., 4	05 N. Marlenfo	eld, Sulte 250, N	fidland, TX 7	79701		Coldwa	iter	•	23-1		mber	
Colter Northwest  Mississippian/Marmaton  ANR  Plug Back Total Depth None  12-15-2005  5,250'  None  Set at 15-572'  15.56' 4.95'  4.95'  19.95'  19.95'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  1.995'  7.22/36'  4.74'  7.995'  7.996 Comparing Med. (Gas)  Weller  Type Comparing Med. (Gas)  Type Fluid Production Water  Pressure Taps  (Meter Run) (Prover) Size  Pressure Buildup: Shut in 11-11  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 11-12  20 10 at 8:00  (AM) (PM) Takon  20 at 12-12-12-12-12-12-12-12-12-12-12-12-12-1														Attributed	
12-15-2005  5,250' None  Casing Size Weight Internal Diameter Set at Perforations To 5,170' 15.5# 4,95' 6,131' 5,014' 5,170'  Tubing Size Weight Internal Diameter Set at Perforations To 2,238' 4.7# 1,95' 5,24' 1,95' 5,24' 7  Tubing Size Weight A,7# 1,95' 5,24' 7  Type Companie (Describe)  Community Ed. (G,35)  Water Producing Production  Water Pressure Buildup: Shot in 11-11 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Well on Line: Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Well on Line: Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Well on Line: Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM) (PM)  Started 11-12 20 10 at 8:00 (AM) (PM) Taken 11-11 20 10 at 8:00 (AM)	Field Colter i	North	wes	st				armaton			hering Conne	ection			
5-1/2" 15.5# 4.95" 6.131" 5,014" 5,170" Tubing Store Weight Internal Diameter Set at Perforations To 2-3/6" 1.995" 1.995" 5,247" Perforations To 5,247" Type Compile (Pecclebs) Water Pumping Unit or Traveling Plunger? Yes / No Pumping Unit or State of S	•		te				k Total Dept	h			Set at				
2-3/6"   4.7#   1.995"   5.247	Casing Size 5-1/2"											- ·-			
Producing Tiff (Annulus / Tubing)  % Carbon Dioxide  % Nitrogen  Gas Gravity - G <sub>s</sub> Annulus  Vertical Depth(H)  Pressure Taps  (Meter Run) (Prover) Size  (Mater Run) (Prover) Size  (Mater Run) (Prover) Size  (AM) (PM)  Well on Line:  Started  11-11  20 10 at 8:00  (AM) (PM) Taken  20 at	Tubing Size 2-3/8"			•							rations	То			
Producing Thrd (Annulus / Tubing)  **Carbon Dloxide  **Nitrogen  Gas Gravity - G.  Annulus  Vertical Depth(H)  Pressure Buildup: Shut in 11-11 20 10 at 8:00 (AM) (PM) Takon 11-11 20 10 at 8:00 (AM) (PM)  Well on Line: Started 11-12 20 10 at 8:00 (AM) (PM) Takon 11-11 20 10 at 8:00 (AM) (PM)  Well on Line: Started 11-12 20 10 at 8:00 (AM) (PM) Takon 11-11 20 10 at 8:00 (AM) (PM)  **State** Office or Pressure (Inches) Pressure (Inches) Pressure (Inches) Proper Pressure (Inches) Pressure Proper Pressure (Inches) Proper Pressure (Inches) Pressure Proper Pressure (Inches) Pressure Proper Pressure P					•								Yes / No		
Pressure Buildup: Shut in   11-11	Producing	Thru	(Anı	nulus / Tubing	3)	% C	Carbon Dioxi	de		% Nitrog	jen	Gas G	ravity • (	G <sub>g</sub>	
Well on Line: Started 11-12 20 10 at 8:00 (AM) (PM) Taken 20 at (AM) (PM)    Comparison of Shut-in 24   Hour Property of Size Property of (Inches)   Property Property of (Inches)   Property Property of (Inches)   Property Open			1)			<u></u>	Pres	sure Taps				(Meter	Run) (P	rover) Size	
State / Orifice   Circle on:   Pressure   Differential in   Temperature   Temperature   Temperature   (P_2) \times (P_1) \times (P_2) \times (P_3) \	Pressure	Buildu	-					(AM) (PM)	Taken 1	1-11	20	10 at 8:00		AM) (PM)	
Stale / Orifice Oynamic Stale / Orifice Oynamic Stale / Oynamic Property of Inches H,0   Oynamic O	Well on L	ine:		Started 11-	12 2	0 10 at 8	:00	(AM) (PM)	Taken		20	at	1	(AM) (PM)	
Static   Orifice   Orifi							OBSERVE	D SURFACE	DATA			Duration of Shut	-in <u>24</u>	Hours	
Flow  Flow  Flow  Flow  Flow STREAM ATTRIBUTES  Flowing Tenoporature Factor Factor For Factor For Factor For For Factor For For For For For For For For For F	Dynamic	ynamic Size		Meter Prover Pressu	Differential in	Temperature Temperat		Wellhead Pressure (P,) or (P,) or (Pc)		Wellhead Pressure $(P_x) \propto (P_t) \propto (P_c)$				1 '	
FLOW STREAM ATTRIBUTES  Plate Coefficient (F <sub>s</sub> ) (F <sub>p</sub> ) Mctd  Press Extension Factor F <sub>s</sub> For Factor F <sub>s</sub> R (Cubic Feet) Gravity G <sub>s</sub> Flowing Fluid Gravity G <sub>s</sub> Flowing Fluid Gravity G <sub>s</sub> For Factor F <sub>s</sub> R (P <sub>s</sub> ) <sup>2</sup> = 0.207  (P <sub>s</sub> ) <sup>2</sup> = .	Shut-In								·						
Plate Coefficient Motor or Prover Pressure Extension Pactor Foundation Prover Pressure Pressure Prover Pressure Pressure Prover Pressure Prover Pressure Prover Pressure Prover Pressure Pressure Prover Pressure Prover Pressure Pressure Prover Pressure Pressure Prover Pressure Prover Pressure Pressure Pressure Prover Pressure Pressure Pressure Pressure Prover Pressure Pressure Pressure Pressure Prover Pressure Pres	Flow						1						<u> </u>		
Coefficient (F <sub>s</sub> )(F <sub>s</sub> ) Motor or Prover Pressure paia Plants on Feator (F <sub>s</sub> )(F <sub>s</sub> ) Motor or Prover Pressure paia Plants on F <sub>s</sub> P		<del></del>			<del></del> .		FLOW STR	EAM ATTRI	BUTES		, <u>.</u>			,	
P <sub>c</sub> ) <sup>2</sup> = : (P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : (P <sub>d</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup> = : (P <sub>d</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup> = : (P <sub>d</sub> ) <sup>2</sup> =	Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> )		Meter or Prover Pressure		Extension	Fac	Factor		Temperature Factor F		R	(Cubic Fe	eet/	Fluid Gravity	
P <sub>c</sub> ) <sup>2</sup> = : (P <sub>w</sub> ) <sup>2</sup> = : P <sub>d</sub> = % (P <sub>c</sub> - 14.4) + 14.4 = : (P <sub>d</sub> ) <sup>2</sup> = Open Flow															
Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27 day of     Choose formula 1 or 2:   1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup>   2. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup>   2. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup>   3. In x LOG   Antilog   Antilog   Copen Flow     Antilog   Copen Flow   Copen Fl	(P <sub>c</sub> ) <sup>2</sup> =		<u>.</u> :	(P)² =	:	•		•			:			07	
Open Flow Mcfd © 14.65 psia Deliverability Mcfd © 14.65 psia  The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27 day of Pecember . 20 10  RECEIV	$(P_e)^2 - (P_e)^2$ or $(P_e)^2 - (P_d)^2$		(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. $P_a^2 - P_a^2$ 2. $P_a^2 - P_d^2$	1. P <sup>2</sup> -P <sup>2</sup> 1. P <sup>2</sup> -P <sup>2</sup> 2. P <sup>2</sup> -P <sup>2</sup> 2. P <sup>2</sup> -R 1. OG of tormula 1. or 2. and divide		Backpres Slop			rog		Or Del Equals	Open Flow Deliverability Equals R x Antilog	
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re facts stated therein, and that said report is true and correct. Executed this the 27 day of December .20 10  RECEIV  Witness (if any)  Multiplication of the company of	•					`									
Witness (If any)  Mill Worklind DEC 29												rt and that he h		•	
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exempt sta	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator ARES Energy, Ltd.  The foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records
of equipme I hereb	ent installation and/or upon type of completion or upon use being made of the gas well herein named.  by request a one-year exemption from open flow testing for the City of Coldwater 23-15  the grounds that said well:
staff as ne	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   er agree to supply to the best of my ability any and all supporting documents deemed by Commission resessary to corroborate this claim for exemption from testing.
	Signature: Newry N. Clanton, Managing Partner

## 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

DEC 2 9 2010

KCC WICHITA