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

Onshore LLC  County Location Section TWP RNG (E/W) Acres Attributed  Harper C SW NE 21-31S-9W  Field Spivey Grabs Reservoir Miss Gas Gathering Connection Pioneer  Completion Date Plug Back Total Depth Packer Set at  11/27/02  Casing Size Weight Internal Diameter Set at Perforations To  4-1/2 10.5 4545 4472 4482  Tubing Size Weight Internal Diameter Set at Perforations To  2-3/8  Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes / No  single (oil & gas) Crude oil & saltwater  Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Ge  annulus Yertical Depth(H) Pressure Taps (Meter Run) (Prover) Size  Pressure Buildup: Shut in 11/7/2011 20 at 9:01AM (AM) (PM) Taken 11/8/2011 20 at 3:25PM (AM) (PM)  Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM)	Type Test:		· •		1	See Instruc	tions on Re	verse Side	)				
Onshore LLC County Onshore LLC County Harper C SN NE 21-31S-9W Resirvoir Harper C SN NE 21-31S-9W Resirvoir Resirvoir Spirvey Grabs Resirvoir TVP RNG (EW) R			1		Test Date	e: 11/	8/2011		API	No. 15 -07	7-21441 ~ (	0000	
Country   Location   Section   Tup   RNG (EMV)   Acree Attributed   Harper   C SW NE   21-31S-9W   Residence   Tup   Residence   Tup   RNG (EMV)   Acree Attributed   Residence   Tup   RNG (EMV)   RNG (EMV)   Residence   Tup   RNG (EMV)   RNG (E	Company	<u> </u>	110	r .,	·/5 ·		Lease Muir	'A #2	.,			Well Number	
Resirvoir   Spivey Grabs   Resirvoir   Spivey Grabs   Niss   Ploneer	County		Location		Section 21-31	S-9W	TWP .	4-2	RNG (E/	W)			
The properties of the proper	Field		•	. 1.4	Reservoi	r	• • •	\$ 3	Gas Gath	nering Conne Pioneer	ection	•	
Description	Completion Date				Plug bac	Plug Back total Deput				et at			
Tubling Size Weight Internal Diameter Set at Perforations To Pump Unit or Traveling Plunger? Ves / No Single (oil & gas) Type Fluid Production Curude oil & saltwater Producing Thru (Annulus / Tubling) % Carbon Dioxide : % Nitrogen Gas Gravity - G, Garnulus / Tubling) % Carbon Dioxide : % Nitrogen Gas Gravity - G, Garnulus S' Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size Vertical Depth(H) Pressure Buildup: Shut in 11/7/2011 20 at 9:01AM (AM) (PM) Taken 11/8/2011 20 at 3:25PM (AM) (PM) Taken 20 at (	Casing Size	asing Size Weight			Internal Diameter Set at 4545			it : , f	Perfor	ations			
Type Fluid Production Single (011 & gas) Crude oil & saltwater  Producing Thru (Annulus / Tubing) Annulus / Tubing)  **Carbon Dioxide  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing)  **Carbon Dioxide  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing)  **Pressure Taps  **(Meter Run) (Prover) Size  **Open Flow Pressure  **India Gravity - G, Annulus / Tubing  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **India Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitrogen  **No Nitrogen  **No Nitrogen  **Gas Gravity - G, Annulus / Tubing  **No Nitrogen  **No Nitroge	Size	bing Size Weight		Internal Diameter			Set at		Perforations t <sub>1</sub> t		To		
Producing Thru (Annulus / Tubing)  Annul IUS  Vertical Depth(H)  Pressure Buildup: Shut in 11/7/2011 20 at 9:01AM (AM) (PM) Taken 11/8/2011 20 at 3:25PM (AM) (PM)  Well on Line: Started 20 at (AM) (PM)  Well on Line: Started 20 at (AM) (PM)  OBSERVED SURFACE DATA Duration of Shut-in Hours  Static / Orifice Dynamic (inches) Prover Pressure play (Pm) Inches H,D (Inches H,D (Inc	Type Comp								Pump Un	it or Traveling	Plunger? Yes	/ No	
Pressure Buildup: Shut in 11/7/2011 20 at 9:01AM (AM) (PM) Taken 11/8/2011 20 at 3:25PM (AM) (PM)	Producing	Thru (An							% Nitroge	en	Gas Gr	avity - G <sub>g</sub>	
Pressure Buildup: Shut in 11/7/2011 20 at 9:01AM (AM) (PM) Taken 11/8/2011 20 at 3:25PM (AM) (PM) (PM) Taken 20 at 3:25PM (AM) (PM) (PM) Taken 20 at 4 (AM) (PM) (PM) (PM) (PM) (PM) (PM) (PM) (P			-			Pres	•	<del></del>	<del> </del>		· (Meter	Run) (Prover) Size	
Companies   Comp			11/		• -	9:01AM				011 20	at 3:25	PM(AM) (PM)	
Static / Orifice   Circle one:   Meter   Pressure   Differential   Flowing   Temperature   Reperture		•									. •		
Static   Orifice   Size   Meter   Pressure						OBSERVE	D SURFACI	E DATA			Duration of Shut-	inHours	
FLOW STREAM ATTRIBUTES  Flow			Meter	Differential		1	Wellhead	Pressure	Wellhea	ad Pressure	Duration	1 1	
Flow STREAM ATTRIBUTES  Plate Coefficient (F <sub>p</sub> ) (F <sub>p</sub> ) Meter of Prover Pressure pisia P <sub>m</sub> ×h Factor F <sub>actor</sub> F <sub>n</sub> Flowing Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub> F <sub>n</sub> F <sub>n</sub> Factor F <sub>n</sub> F <sub>n</sub> F <sub>n</sub> (Mcd)  P <sub>m</sub> ×h F <sub>n</sub>			1 ,		t	t	psig	psia					
Plate Coefficient (F <sub>p</sub> )(F <sub>p</sub> ) Provar Pressure psia P <sub>p</sub> xh F <sub>p</sub> xh			i i				160	1/4.4		-			
Plate Coefficient (F <sub>3</sub> )(F <sub>3</sub> ) Meter or Prover Pressure pia (P <sub>2</sub> ) <sup>2</sup> = (P <sub>3</sub> )	Flow		<u> </u>	J	<u> </u>	FLOW STE	REAM ATTR	IBUTES	l				
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS  (P <sub>a</sub> ) <sup>2</sup> = 0.207  (P <sub>c</sub> ) <sup>2</sup> = P <sub>d</sub> % (P <sub>c</sub> -14.4) + 14.4 = (P <sub>d</sub> ) <sup>2</sup> =	Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) F		Meter of over Pressure	Extension		vity .	Flowing Temperature Factor		Peviation Metered F		(Cubic Fe	et/ Fluid Gravity	
$P_{o})^{2} = (P_{w})^{2} = P_{d} = 96  (P_{a}-14.4) + 14.4 = (P_{d})^{2} = P_{d} = 96  (P_{a}-14.4) + 14.4 = P_{d} = P_{d}$	Meia		1	•			4				·		
Choose formula 1 or 2:  (P <sub>c</sub> )²- (P <sub>c</sub> )²  (Mcfd)  (Mcfd)  Deliverability  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 effects stated therein, and that said report is true and correct. Executed this the  RECEI		<u></u> L	<u> </u>		•		•:	-					
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 efacts stated therein, and that said report is true and correct. Executed this the RECEI	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>		LOG of tormula 1. or 2.		Backpressure Curve Slope = "n"		ГЭ			Open Flow Deliverability Equals R x Antilog	
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 efacts stated therein, and that said report is true and correct. Executed this the		,) <sup>2</sup>	dh	. • -	2 by:							(molo)	
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 effects stated therein, and that said report is true and correct. Executed this the	* *, `			- <del>1</del>			6 %		# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		
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RECEI	•	ndersigne	d authority, on	behalf of the	Company,	states that h	ne is duly at	uthorized to 26+h	o make th	e above repo	ort and that he ha		
and the first of the first of the state of t	e facts sta	ated there	ein, and that said	report is true	e and corre	t. Executed	t this the			, Juli / 20			
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Checked by		<del></del>	1		· · · · · · · · · · · · · · · · · · ·		. • • • • • • • • • • • • • • • • • • •		-	Che		KCC WICI	

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i decl	are und	er penalty of pe	erjury under	the laws of t	ne state of I	Kansas that I a	am authorized to	request
		ler Rule K.A.R.				Onshore		
and that t	he foreg	joing pressure	information	and stateme	nts containe	ed on this appl	cation form are	true and
correct to	the best	of my knowled	lge and beli€	of based upon	available pr	roduction sum	maries and lease	records
							e gas well herein	
		est a one-year e				. 1911 1 7 7 4	, #Z 	
		ounds that said	•			w*	N	
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	(Check	one)	•	, <b>1</b> , , , ,	٠	•		4
and the second		is a coalbed n	nethane pro	ducer	1 · 1		V 3 2 5	No. 1
	Ī	is cycled on p	olunger lift di	ue to water				, 1
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, .	·	is on vacuum	at the prese	nt time; KCC	approval Do	cket No		<del></del> , , ,
. ••	x	is not capable	e of producir	ng at a daily ra	ate in exces	s of 250 mcf/D		
	•			ு என்னவை விருவன் முத்தன்		to provide the second		
I furth	ner agre	e to supply to t	he best of m	y ability any a	and all suppo	orting docume	nts deemed by C	Commission
staff as n	ecessar	y to corroborat	e this claim	for exemption	from testin	g.	•	٠,
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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.