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

ype Test:												
Open	Flow	•		Tool Date:				API N	lo. 15			
Deliverabilty			Test Date: 01/12/2013 - 01/13/2013					5-047 <b>-2</b> 0,77				
Company F.G. Holl Company, L.L.C.				Lease			ROSS				Well Number 1-22	
County	- OOI.I.p.	Location		Section		TWP		RNG (E/	W)		Acres Att	ributed
	Edwards1130' FSL 440' FWL			22		248		17W			RECE	
ield				Reservoir					ering Connec			LICE
Vayne				Mississ			•	Semga	as Gatherin	g L.L.C.		<b>M</b>
ompletion    2/18/198			1.	Plug Back 4411'	Total Depth	<b>1</b>		Packer Se None	et at		Kr	~~~~
asing Size -1/2"	sing Size Weight		·.	Internal Diameter		Set at 4452'		Perforations To 4380'- 4384'		KCC WICH		
bing Size	)	Weight	14	Internal Di	iameter	Set a	t	Perfor	ations	То	•	٠.
		4.7#										
Type Completion (Describe) Single (Gas)				Type Fluid	Type Fluid Production			Pump Un Pump		Plunger? Ye		
oducing T	Thru (Anr	nulus / Tubing)		% Carbon	Dioxide			% Nitroge	∍n	Gas	Gravity - G	e
ubing										/2.2	- Bunk (D)	.ma) C:
/ertical Depth(H)					Pressure Taps Flange					r Run) (Pro	ver) Size	
ressure Bu	د دامان	Shut in 01/12	/2013 40	at 8:	00	(AM) (PM)	Taken (	1/12/20	13 <sub>19</sub>	at 8:00		AM) (PM)
essure Bu										0.00		
ell on Line	e:	Started 01/13/	12013 19	at		(AM) (PM)	Taken <u>U</u>	1/13/201	<u>3</u> 19	at <u>0.00</u>	(/	AM) (PM)
			<del></del>								t.in 24	
					OBSERVE	D SURFAC	E DATA	, ,	and the state of	Duration of Sh	nut-in	Hours
		<del></del>		Temperature 1		1				Duration (Hours)		
ynamic	Orifice Size	Circle one: Meter or Prover Pressure	Pressure Differential in (h)	Temperature	Well Head Temperature	Cas Wellhead (P <sub>w</sub> ) or (F	Pressure	Wellhe	ubing ad Pressure · (P <sub>1</sub> ) or (P <sub>c</sub> )			l Produced Barrels)
/namic		<i>Meter</i> or	Differential			Wellhead	Pressure	Wellhe	ad Pressure	(Hours)		
ynamic roperty	Size	Meter or Prover Pressure	Differential in (h)	Temperature	Temperature	Wellhead (P <sub>w</sub> ) or (F	Pressure	Wellhe (P <sub>w</sub> ) or	ad Pressure (P <sub>i</sub> ) or (P <sub>c</sub> )			
operty	Size	Meter or Prover Pressure	Differential in (h)	Temperature	Temperature	Wellhead (P <sub>w</sub> ) or (F	Pressure	Wellhe (P <sub>w</sub> ) or psig	ad Pressure (P <sub>i</sub> ) or (P <sub>c</sub> )	(Hours)		
ynamic operty hut-in	Size	Meter or Prover Pressure	Differential in (h)	Temperature	Temperature t	Wellhead (P <sub>w</sub> ) or (F paig	Pressure P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Wellhe (P <sub>w</sub> ) or psig	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	(Hours)		
ynamic roperty	Size	Meter or Prover Pressure psig	Differential in (h)	Temperature	Temperature t	Wellhead (P <sub>w</sub> ) or (F paig 46	Pressure P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Wellhe (P <sub>w</sub> ) or psig	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	(Hours)		sarreis)
ynamic roperty Shut-In Flow Plate	Size inches	Meter or Prover Pressure	Differential in (h)	Temperature	Temperature t  FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig	Pressure P <sub>1</sub> ) or (P <sub>c</sub> ) psia  RIBUTES  Det	Wellhe (P <sub>w</sub> ) or psig	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	(Hours)  24  G(Cubic		
hut-in Flow Plate Coefficier (F <sub>b</sub> ) (F <sub>b</sub> )	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure	Differential in (h) Inches H <sub>2</sub> 0	Temperature t  Grav	Temperature t  FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig 46	Pressure P <sub>1</sub> ) or (P <sub>c</sub> ) psia  RIBUTES  Det	Wellhe (P <sub>w</sub> ) or peig	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia  Metered Flow	(Hours)  24  G(Cubic	OR Peet/	Flowing Fluid Gravity
hut-in Flow Plate Coefficier (F <sub>b</sub> )(F <sub>b</sub> )	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure	Differential in (h) Inches H <sub>2</sub> 0	Temperature t  Grav Fact	Temperature t	Wellhead (P <sub>w</sub> ) or (F peig  46  REAM ATTE Flowing Temperature Factor F <sub>ff</sub>	Pressure Proposition Pressure Proposition Pressure Proposition Pressure Pre	Wellhe (P <sub>w</sub> ) or peig 10	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia  Metered Flow	(Hours)  24  G(Cubic	OR Peet/	Flowing Fluid Gravity
namic operty hut-in hut-in Flow Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia	Differential in (h) Inches H <sub>2</sub> 0	Grav Fact (OPEN FLO	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTR Flowing Temperature Factor F <sub>ff</sub>	Pressure (1) or (Pc) psia  RIBUTES  Det Fo	Wellhe (P <sub>w</sub> ) or peig 10  /intion actor F <sub>pv</sub>	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia  Metered Flow	(Hours)  24  G(Cubic Bac	OR : Feet/ rrel) (P_)² = 0.2	Flowing Fluid Gravity G_
Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension § P <sub>m</sub> x H <sub>w</sub>	Grave Factor Fac	FLOW STI	Wellhead (P <sub>w</sub> ) or (F peig  46  REAM ATTR Flowing Temperature Factor F <sub>ff</sub>	Pressure Proposition Pressure Proposition Pressure Proposition Pressure Pre	Wellhe (P <sub>w</sub> ) or peig 10  /intion actor F <sub>pv</sub>	ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> ) psia  Metered Flow	(Hours)  24  G(Cubic Bac	OR Feet/	Flowing Fluid Gravity G_
Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension \$ P <sub>m</sub> x H <sub>w</sub>	Grave Fact Formula	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTR Flowing Temperature Factor F <sub>f1</sub> /ERABILITY % (  Backpre Sic	Pressure (1) or (Pc) psia  RIBUTES  Det Fo	Wellhe (P <sub>w</sub> ) or paig 10	Metered Flor	(Hours)  24  G(Cubic Bac	(P <sub>a</sub> ) <sup>2</sup> = 0.2 (P <sub>a</sub> ) <sup>2</sup> = Op	Flowing Fluid Gravity G_
namic operty hut-in hut-in Flow  Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension \$ P <sub>m</sub> x H <sub>w</sub> cose formula 1 or 2:  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>c</sub> <sup>2</sup>	Grav Fact Fact COPEN FLC Pa =  LOG of formula 1. or 2. and dhide	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTR Flowing Temperature Factor F <sub>11</sub> /ERABILITY % ( Backpre Sic	Pressure Propose Pressure Propose Prop	Wellhe (P <sub>w</sub> ) or paig 10	Metered Flor	(Hours)  24  G(Cubic Bai	(P <sub>a</sub> ) <sup>2</sup> = 0.2 (P <sub>a</sub> ) <sup>2</sup> = Op	Flowing Fluid Gravity G_
namic operty hut-in hut-in Flow  Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd  (P <sub>c</sub> ) <sup>2</sup> =	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension \$ P <sub>m</sub> x H <sub>w</sub>	Grav Fact Fact COPEN FLC Pa =  LOG of formula 1. or 2. and dhide	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTR Flowing Temperature Factor F <sub>11</sub> /ERABILITY % ( Backpre Sic	Pressure Propose Pressure Propose Pressure Propose Pressure Pressu	Wellhe (P <sub>w</sub> ) or paig 10	Metered Flor	(Hours)  24  G(Cubic Bai	(P <sub>a</sub> ) <sup>2</sup> = 0.2 (P <sub>a</sub> ) <sup>2</sup> = Op	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog
ynamic poperty hut-in hut-in Flow Plate Coefficier $(F_b)(F_p)$ Mcfd $(F_c)^2 = \frac{(P_c)^2 - (P_a)^2}{\sigma}$	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension \$ P <sub>m</sub> x H <sub>w</sub> cose formula 1 or 2:  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>c</sub> <sup>2</sup>	Grav Fact Fact COPEN FLC Pa =  LOG of formula 1. or 2. and dhide	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTR Flowing Temperature Factor F <sub>11</sub> /ERABILITY % ( Backpre Sic	Pressure Propose Pressure Propose Prop	Wellhe (P <sub>w</sub> ) or paig 10	Metered Flor	(Hours)  24  G(Cubic Bai	(P <sub>a</sub> ) <sup>2</sup> = 0.2 (P <sub>a</sub> ) <sup>2</sup> = Op	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog
Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension  S P <sub>m</sub> x H <sub>w</sub> coss formula 1 or 2:  1. P <sub>c</sub> - P <sub>a</sub> 2. P <sub>c</sub> - P <sub>d</sub> sided by: P <sub>c</sub> - P <sub>w</sub> 2. P <sub>c</sub> - P <sub>w</sub>	Grav Fact Fg  (OPEN FLC Pg  LOG of formula 1. or 2. and divide by:	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTE Flowing Temperature Factor F <sub>11</sub> /ERABILITY % (Backpre Sic	Pressure Propose Pressure Propose Pressure Propose Pressure Pressu	Wellhe (P <sub>w</sub> ) or paig 10	Metered Flor (Mcfd)	(Hours)  24  W GG (Cubic Bar)	(P <sub>s</sub> ) <sup>2</sup> = 0.2 (P <sub>s</sub> ) <sup>2</sup> = Or Del Equals	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog
Plate Coefficier (F <sub>b</sub> )(F <sub>p</sub> ) Mcfd  P <sub>e</sub> ) <sup>2</sup> = (P <sub>e</sub> ) <sup>2</sup> - (P <sub>e</sub> ) or	Size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension \$ P <sub>m</sub> x H <sub>w</sub> cose formula 1 or 2:  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>c</sub> <sup>2</sup>	Grav Fact Fg  (OPEN FLC Pg  LOG of formula 1. or 2. and divide by:	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTR Flowing Temperature Factor F <sub>11</sub> /ERABILITY % ( Backpre Sic	Pressure Propose Pressure Propose Pressure Propose Pressure Pressu	Wellhe (P <sub>w</sub> ) or paig 10	Metered Flor (Mcfd)	(Hours)  24  G(Cubic Bai	(P <sub>s</sub> ) <sup>2</sup> = 0.2 (P <sub>s</sub> ) <sup>2</sup> = Or Del Equals	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog
Property  Shut-In  Flow  Plate  Coefficcier  (F <sub>b</sub> ) (F <sub>p</sub> )  Mcfd  P <sub>o</sub> ) <sup>2</sup> = (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> Open Flow  The un	size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia $(P_w)^2 = \frac{Ch}{dh}$ $dh$ ed authority, on be	Press Extension  S P <sub>m</sub> x H <sub>w</sub> coss formula 1 or 2:  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>w</sub> <sup>2</sup> Mcfd @ 14.6  chalf of the Co	Grav Fact Fo  (OPEN FLt Po == LOG of formula 1. or 2. and dhide by:	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTE Flowing Temperature Factor F <sub>11</sub> /ERABILITY % ( Backpre Stand  Deliverabi	Pressure Proposer Pressure Proposer Pressure Proposer Pressure Pre	Wellhe (P <sub>w</sub> ) or peig 10  Viation actor F <sub>pv</sub> LATIONS 14.4 =	Metered Flow (Mcfd)  LOG	(Hours)  24  G(Cubic Baic Cubic Cubi	OR C Feet/ (P <sub>a</sub> ) <sup>2</sup> = 0.2 P <sub>d</sub> ) <sup>2</sup> = Opposite	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog Mcfd
printing property shut-in Flow Plate Coefficier (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd P <sub>a</sub> ) <sup>2</sup> = (P <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) Pen Flow The un	size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia  (P <sub>w</sub> ) <sup>2</sup> =	Press Extension  S P <sub>m</sub> x H <sub>w</sub> coss formula 1 or 2:  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>w</sub> <sup>2</sup> Mcfd @ 14.6  chalf of the Co	Grav Fact Fo  (OPEN FLt Po == LOG of formula 1. or 2. and dhide by:	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTF  Flowing Temperature Factor F <sub>rt</sub> /ERABILITY % ( Backpre Sic	Pressure Proposer Pressure Proposer Pressure Proposer Pressure Proposer Pressure Pre	Wellhe (P <sub>w</sub> ) or peig 10  Viation actor F <sub>pv</sub> LATIONS 14.4 =	Metered Flow (Mcfd)  LOG	(Hours)  24  G(Cubic Baic Cubic Cubic Baic Cubic Baic Cubic Baic Cubic	OR Feet/ (P <sub>a</sub> ) <sup>2</sup> = 0.2 P <sub>d</sub> ) <sup>2</sup> = Op Del Equals	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog Mcfd
roperty  hut-in  Flow  Plate  Coefficien  (F <sub>b</sub> ) (F <sub>p</sub> )  Mcfd  or  (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> or  (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub>	size inches	Meter or Prover Pressure psig  Circle one: Meter or rover Pressure psia $(P_w)^2 = \frac{Ch}{dh}$ $dh$ ed authority, on be	Press Extension  S P <sub>m</sub> x H <sub>w</sub> coss formula 1 or 2:  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>c</sub> <sup>2</sup> Mcfd @ 14.6  chalf of the Cotrue and corre	Grav Fact Fo  (OPEN FLt Po == LOG of formula 1. or 2. and dhide by:	FLOW STI	Wellhead (P <sub>w</sub> ) or (F paig  46  REAM ATTE Flowing Temperature Factor F <sub>11</sub> /ERABILITY % ( Backpre Stand  Deliverabi	Pressure Proposer Pressure Proposer Pressure Proposer Pressure Pre	Wellhe (P <sub>w</sub> ) or peig 10  Viation actor F <sub>pv</sub> LATIONS 14.4 =	Metered Flore (Mcfd)  LOG   Dove report and Control of	(Hours)  24  G(Cubic Baic Cubic Cubi	OR Feet/ (P <sub>a</sub> ) <sup>2</sup> = 0.2 (P <sub>a</sub> ) <sup>2</sup> = Op Del Equals	Flowing Fluid Gravity G_ one Flow iverability s R x Antilog Mcfd

For Commission

## JAN 2 4 2013

		KCC WICHIT	A
	· · · · · · · · · · · · · · · · · · ·	e state of Kansas that I am authorize	ed to request
exempt status under Rule	K.A.R. 82-3-304 on behalf of the op	perator F.G. Holl Company, L.L.C.	<u> </u>
and that the foregoing inf	formation and statements contained	ed on this application form are true a	nd correct to
the best of my knowledge	e and belief based upon gas prod	uction records and records of equipr	nent installa-
and the state of t	etion or upon use of the gas well		
	manent exemption from open flow	D D 00000 4 00	
		lesting for the	
gas well on the grounds t	inat said weii:		
(Ob1:)			
(Check one)			
	palbed methane producer		
is cycl	ed on plunger lift due to water		
is a so	ource of natural gas for injection in	to an oil reservoir undergoing ER	
is on v	vacuum at the present time; KCC	approval Docket No.	
✓ is inca	pable of producing at a daily rate	in excess of 250 mcf/D	
			e de la companya de l
Date: 01/21/2013			
		Lovenesson	
	Signature:	000 01 0000	
	Title: Petro	oleum Geologist	
	the contract of the contract o		

## Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.