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

Edwards C NE NE 32 24S 16W  Fleld Reservoir Kinderhook Semgas Gathering Connection Semgas Gathering LLC  Completion Date D2/03/1981  Casing Size Weight Internal Diameter Set at None  Casing Size Weight Internal Diameter Set at 4453' 4372' - 4376'  Tubing Size Weight A.7# Set at 10.5# A4453' A4372' - 4376'  Tubing Size Weight Internal Diameter Set at 4348'  Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes / No Pumping Unit Production Traveling Plunger? Yes / No Pumping Unit Production Traveling Plunger? Yes / No Pumping Unit Production Traveling Plunger? Yes / No Pumping Unit Pressure Taps (Meter Run) (Prover) Size Flange  Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Size Flange  Pressure Buildup: Shut in O1/26/ 20 15 at 8:00 (AM) (PM) Taken O1/26/ 20 15 at 8:00 (AM) (PM)  Well on Line: Started O1/27/ 20 15 at 8:00 (AM) (PM) Taken O1/27/ 20 15 at 8:00 (AM) (PM)  OBSERVED SURFACE DATA Duration of Shut-in 24 Hour Static of Size Programs of the pressure of the programs of the program	Type Test	t:				(	See Instruc	tions on Re	verse Side	)				
Company Company LLC Company LLC Company LLC Company Country Co	Op	en Flo	W			Teet Date	<b>.</b> .			ΔΡΙ	No. 15			
Country Localion Section TyP RNS (EW) Acres Attributed Acres Attributed Section TyP Report of Section Section TyP Report of Section Se	De	eliverab	ilty									-0000		
Edwards C NE NE 32 24\$ 16W Field Reservoir Embry Reservoir Embry Reservoir Embry Reservoir Research Reservoir Reservoir Research Reservoir Research Reservoir Research Reservoir Research Reservoir Research Resea			pany, LLO	)								1-32	Well N	umber
Embry Kinderhook Semgas Gathering LLC Competed Date Date Plug Back Total Depth Packer Set at 12/03/1981 Plug Back Total Depth None Perforations 10.5# Internal Diameter Set at 453' Perforations To 4453' 4453' 4343' Perforations To 423' 47.7# And 10.5# Internal Diameter Set at 453' Perforations To 423' 47.7# And 10.5# Internal Diameter Set at 453' Pumping Unit or Traveling Plunger? Yos / No Finding Stroe Pumping Unit or Traveling Plunger? Yos / No Pumping Unit Production Pumping Unit or Traveling Plunger? Yos / No Pumping Unit Production Single (Gas) Pumping Unit Production Pumping Unit Production Pumping Unit Production Pumping Unit Production Started United Production Pumping Unit Production Office Office Production Production Started United Production Production Started United Production Office Pumping Unit Production Office Production Office Production Production Office Production Office Production Office Production Office Production Office Production Production Office Production Production Office Production	County Edwards	s									W)		Acres	Attributed
None   Caseing Size   Weight   Internal Diameter   Set at   Parforations   To   4453'   4372' - 4376'   To   426'   4772' - 4376'   To   426'   4772' - 4376'   To   426'   4772' - 4376'   To   4372' - 4376'   To   4372' - 4376'   To   4372' - 4376'   4772' - 4376'   To   4372' - 4372' - 4376'   To   4372' - 43	Field Embry							<u>.</u>					•	
1-1/2" 10.5# 4453' 4372' - 4376'  Tubing Size Weight 4.7# Internal Diameter Set at Perforations To Pump Unit or Travoling Plunger? Yes / No Pumping Unit Production Plung Unit or Travoling Plunger? Yes / No Pumping Unit Production Plunging Unit Production Of Shut-In Pressure Taps (Matter Plunging Unit Production Of Shut-In Pressure Buildup: Shut In 01/26/ 20 15 at 8:00 (AM) (PM) Taken 01/26/ 20 15 at 8:00 (AM) (PM) Taken 01/26/ 20 15 at 8:00 (AM) (PM) Taken 01/27/ 20 15 at 8:00 (AM) (PM) Taken 01/27/ 20 15 at 8:00 (AM) (PM) Taken 01/27/ 20 15 at 8:00 (AM) (PM) Taken O1/28/ 20 15 at 8:00 (AM) (	•		е	-		Plug Bac	k Total Dep	th	<u>.</u>		et at			
Pressure Buildup: Shut in O1/26/ 20 15 at 8:00 (AM) (PM) Taken O1/27/ 20 15 at 8:00 (	Casing S 4-1/2"	ize				Internal D	Diameter					То		
Pumping Unit	Tubing Si 2-3/8"	ize				Internal E	Diameter				ations	То		
Producing Thru (Annolus / Tubing)  We carbon Dioxide  We find Depth(H)  Pressure Taps Flange  Control Depth(H)  Pressure Baildup: Shut in O1/26/ 20 15 at 8:00 (AM) (PM) Taken O1/26/ 20 15 at 8:00 (AM) (PM)  DIVERTING			n (Describe	)		Type Flui	d Productio	n				Plunger? Yes	/ No	
Pressure Buildup: Shut in   O1/26/   20 15 at 8:00   (AM) (PM)   Taken   O1/26/   20 15 at 8:00   (AM) (PM)	Producing	· ·	(Annulus /	Tubing)		% C	arbon Diox	ide				Gas G	ravity -	G,
Pressure Buildup: Shut in 01/26/ 20 15 at 8:00 (AM) (PM) Taken 01/26/ 20 15 at 8:00 (AM) (PM) Taken 01/27/ 20 15 at 8:00	<u>_</u>	Depth(H	1)					•					Run) (F	rover) Size
State   Orifice   Started   Orifice   Orific	Pressure	Buildu	p: Shut in	01/2	6/	20 15 at 8			Taken_01	/26/	20			(AM) (PM)
State of Ordice Cyments (Inches)   Ordice Size (Inches)   Ordice Size (Inches)   Ordice (Inches)   Ord	Well on L	ine:	Started	01/2								15 at 8:00		(AM) (PM)
Static Orifice Orifice (Inches) Property (Inches							OBSERVE	D SURFAC	e data			Duration of Shut	<sub>t-in</sub> _24	Hours
Shut-In  Flow    19	Static / Dynamic Property	Dynamic Size		Meter Prover Pressure		al Temperature Temperati		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Welihead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>q</sub> )				
FLOW STREAM ATTRIBUTES  Plate Coefficient (F <sub>p</sub> )(F <sub>p</sub> ) (F <sub>p</sub> ) (Cubic Feet Pastor Factor Pastor Factor Pastor Factor Facto	Shut-In		paig	1 (1-111)	Inches H <sub>2</sub> O				psia	psig	psia			<u> </u>
Plate Coefficient Motor or Motor or Prover Pressure psia   (P <sub>a</sub> ) (F <sub>a</sub> ) (Motor or Prover Pressure psia   (OPEN FLOW) (DELIVERABILITY) CALCULATIONS  (P <sub>a</sub> ) <sup>2</sup> = (P <sub>a</sub> )	Flow							19				ti.		
Coefficient (F <sub>p</sub> )(F <sub>p</sub> ) Prover Pressure psia Pluid (Gravity Factor F <sub>n</sub> ) (F <sub>p</sub> ) Prover Pressure psia Prover Prover Pressure psia Psia Psia Psia Psia Psia Psia Psia P							FLOW STA	REAM ATTR	IBUTES	<del></del>		<del>- i</del>		
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> =	Coeffied (F <sub>b</sub> ) (F	ient ,)	Meter o Prover Pres	r	Extension	Faci	tor	Temperature Factor	Fa	ctor	R	(Cubic F	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> =			<del></del> -											
Checked by  Choose formula 1 or 2:  1. P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> divided by: P <sub>o</sub> <sup>2</sup> - P <sub>o</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  Witness (if any)  For Commission  Checked by  Checked by  Checked by  Checked by  Checked by  Checked by  Backpressure Curve Slope = "n"  n x LOG  Antilog  Antilog  Open Flow  Deliverability  Mcfd @ 14.65 psia  Deliverability  Mcfd @ 14.65 psia  Open Flow  Deliverability  Equals R x Antilog  (Mcfd)  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Deliverability  Equals R x Antilog  Mcfd @ 14.65 psia  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Open Flow  Deliverability  Mcfd @ 14.65 psia  Open Flow  Op	(P₂)² =		_: (	(P)² =_	:	•			•		:			207
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 29th day of Loveness Mpanje Coveness Mpanje  Witness (if any)  For Company  For Commission  Checked by	(P <sub>c</sub> ) <sup>2</sup> - (l	P <sub>a</sub> ) <sup>2</sup>		,) <sup>2</sup>	1. $P_0^2 - P_0^2$ 2. $P_c^2 - P_d^2$	LOG of formula 1, or 2. and divide		Slo As	pe = "n" - or signed	l n x 1	.0G	Antilog	De	liverability s R x Antilog
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witness (if any)  For Commission  Executed this the 29th day of January Loveness Mpanje  Loveness Mpanje  For Commission  Checked by	·	-	ianad suths	uritu on			tatos that i		•	o mako sh		· ·		uladae of
Witness (if any)  For Commission  KCC WICHITC  For Company  For Commission  Checked by			•	•		• •		•			•	ort and that he h		
For Commission For Commission Checked by													je	2
			ř	oi ouminis	on <b>u</b> ll						Che	undu by		

exempt status under and that the forego	er Rule K.A.R. 82-3-304 oing pressure informat	der the laws of the state of Kansas that I am authors on behalf of the operator <u>F.G. Holl Company, LLC</u> ion and statements contained on this application for	orm are true and
		pelief based upon available production summaries a	
		of completion or upon use being made of the gas we on from open flow testing for the <u>KOETT 1-32</u>	ii nerein named.
	unds that said well:	in from open now testing for the	<del></del>
I further agree	is a coalbed methane pais cycled on plunger lift is a source of natural gas on vacuum at the press not capable of produte supply to the best of		ned by Commission
FEE	; WICHITA B 0 2 2015 BECEIVED	Signature: Loveness Mpanje  Title: Petroleum Geologist	

## 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.