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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(See Instru	uctions on Re	verse Side	e)					
	en Flow liverabili				Test Date 4/3/14	Test Date: API No. 15 4/3/14 15-009-14214-								
Company					4/3/14		Lease		15-	009-14214			Number	
Joel Associates, Inc County Location					Harms TWD							-11		
County Location Barton SW-SW-NW				Section 11		TWP 19	- ,		·vv)		Acres 10	Attributed		
Field Otis-Albert					Reservoir Krider			Gas Gathering Conr IACX		nection				
Completion Date 11/18/82				Plug Bac 2012	k Total De	epth		Packer Set at						
Casing Size Weight 4 1/2					Internal [Diameter		Set at 2018'		Perforations krider		то 1804-14ОА		
Tubing Size Weight 2 3/8				Internal [Diameter	Set	Set at		Perforations		То			
Type Completion (Describe) Single						Type Fluid Production Saltwater			Pump Ur Pump	nit or Travelin unit	g Plunger?	Yes / No		
Producing Thru (Annulus / Tubing) Annulus					% C	% Carbon Dioxide			% Nitrogen			Gas Gravity - G		
Vertical D					 -	Pro	essure Taps				(N	Meter Run) (Prover) Size	
2012														
Pressure Buildup:			hut in 20		0 14 at 4:00pm		(AM) (PM)	(AM) (PM) Taken 4/3		3 20		14 at 4:01 (AM)		
Well on L	ine:	Sta	arted	2	0 at		_ (AM) (PM)	Taken		20	at		_ (AM) (PM)	
						OBSER\	/ED SURFAC	E DATA			Duration of	Shut-in	Hours	
Static / Dynamic	Orifice Size	Mater		Pressure Differential in	Flowing Well H Temperature Temper		wellhead	sing Pressure			Duration (Hours)		Liquid Produced (Barrels)	
Property	(inches			Inches H ₂ 0	t .	t -	psig	psia	psig	psia	<u> </u>			
Shut-In		-					32	i			24	- 0		
Flow														
		Cir	cle one:		1	FLOW S	TREAM ATTE	RIBUTES						
Plate Coeffied (F _b) (F Mcfd	ient ,,)	Meter or Prover Pressure psia		Press Extension Pmxh	Grav Fact	tor	Flowing Temperature Factor F _{II}	erature Factor		Metered Flo R (Mcfd)	(Cu	GOR ubic Feet/ Barrel)	Flowing Fluid Gravity G _m	
									-					
(P _c)² =		:	(P _w) ² =	:	(OPEN FLO		IVERABILITY	') CALCUL P _c - 14.4) +		:		$(P_a)^2 = 0.$ $(P_d)^2 = $.207	
(P _e)² - (F or (P _e)² - (F	2)2	(P _e) ² -(P _w) ²		1. P _c ² - P _a ² 2. P _c ² - P _a ²	LOG of formula 1. or 2.		Backpressure Curve Slope = "n"				Antilog	, D	Open Flow Deliverability Equals R x Antilog	
	9,		divi	ided by: P 2 - P	and divide by:	P _c ² -P _w ²		ssigned dard Slope	_				(Mcfd)	
Open Flor	w			Mcfd @ 14.	65 neia		Deliveral	nility			Mcfd @ 14.	65 pain		
-		ned a	authority on l			tatas that	he is duly a		ta matea th					
							ed this the <u>8</u>		day of A		on and mat		, 20 <u>14</u> .	
		îs.	and man sand	A B		EX860(Vay or _	Mar	ette		, 20 <u>···</u> . • \^{(CH)	
•			Witness (If an	1 y)					47	For	Company	NOC	, AAIOLU	
	-		For Commiss	ion						Chi	ecked by	APF	7 1 6 2014	

er penalty of perjury under the laws of the state of Kansas that I am authorized to request
er Rule K.A.R. 82-3-304 on behalf of the operator JOEL Associates, Inc.
oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records
lation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the Harm 1-11
ounds that said well:
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
to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Signature: Masslet Title: Vice President

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.

KCC WICHITA

APR 16 2014

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