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

Type Test	i:					(	See Ins	truci	tions on Re	verse Side	3)							
✓ Open Flow			Test Date:							ol Na	15							
Deliverabilty				9/17/2013					API No. 15 15-007-22999-0001									
Company Indian C					<u>-</u>				Lease Axline						OWW	Well No	ımber	
County Barber			Location W2 W2 NE			Section 16			TWP 31	RNG (E/W) 11W					Acres	Attributed		
Field IIs						Reservoir Miss					Gas Gathering Conne Oneok			ection				
Completion Date 1/2/2012						Plug Back Total Depth 5021			th	l			Packer Set at					
Casing Size Weight 5.5 1550#				Internal Diameter			Set 6	Perforations 4517			то 4574							
Tubing Size Weight 2.875				Internal Diameter			Set 8 4664	Perforations			То							
Type Con						Type Flui	d Produ	ictio	n		Pump U	Jnit o	or Traveling	Plun	ger? Yes	/ No		
Producin	Thru (	(Апг	nulus / Tubir	g)		% C	arbon [	Dioxi	de	-	% Nitro	дел			Gas G	avity -	G <sub>g</sub>	
Vertical D	epth(H)							Pres	sure Taps						(Meter	Run) (P	rover) Size	
Pressure	Buildup	);	9/1 Shut in	7	20	0 13 at 10	0:30 a	m	(AM) (PM)	Taken 9/	17		20	13	10:30	am_	(AM) (PM)	
Well on L	ine:	ţ	Started <u>9/1</u>	8	20	13 at u	D: 30		(AM) (PM)					<u>13</u>	at 16:3/	<u>am</u>	(AM) (PM)	
	•					-	OBSE	RVE	D SURFAC	E DATA			-	Durat	ion of Shut	-in	Hours	
Static / Dynamic Property	mic Size		Circle one: Meter Prover Pressure		Pressure Differential in Temperatu		Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pres (P, ) or (P, ) or		ressure	ſ	Ouration (Hours)	Liqu	Liquid Produced (Barrels)	
Shut-In	psig (F		psig (Pm)	) Inches H <sub>2</sub> 0		, , ,			psig psia 280 294.		psig	ig psia		24			_	
Flow								_	280	677.7	100	$\dashv$	<u>114.4</u>	24				
!						<del></del>	FLOW	STR	EAM ATTR	IBUTES								
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle ane: Meter or Prover Pressure psia			Press Extension ✓ P <sub>m</sub> xh	Gravity Factor F <sub>g</sub>		7	Flowing femperature Factor F <sub>11</sub>	Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		w GOR (Cubic Fee Barrel)			Flowing Fluid Gravity G <sub>m</sub>	
			-															
(P <sub>c</sub> ) <sup>2</sup> =	.,	_:	(P <sub>w</sub> ) <sup>2</sup> :		:	(OPEN FLO			ERABILITY % (F	CALCUL - 14.4) +			: <i>,</i>		(P <sub>a</sub> ) (P <sub>d</sub> )	2 = 0.2 2 =	207	
$(P_c)^2 \cdot (P_s)^2$ or $(P_e)^2 \cdot (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		:	ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ led by: $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide by:		2	Backpressure Slope = "1 or Assigner Standard Sl			LOG	LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
														,				
Open Flov	w				Mcfd @ 14.0	35 psia			Deliverab	ility				Mcfd	@ 14.65 ps	ia		
					ehalf of the								tember	ort and	I that he ha		1699e of 20 13	
			Witness	(if any	1)			_	-	<del></del>	وسعر.	- 6	For	7 Company	K	CI	NIC!!!	
			For Gom	nissio	in			-	_				Che	cked by	N	100	) 4 2013	

	enalty of perjury under the laws of the state of Kansas that I am authorized to request rule K.A.R. 82-3-304 on behalf of the operator Indian Oil Co., Inc.
	g pressure information and statements contained on this application form are true and
	ny knowledge and belief based upon available production summaries and lease records
of equipment installati	on and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a	one-year exemption from open flow testing for the Swartz 1A
gas well on the groun	
(0)	
(Check one	a coalbed methane producer
	cycled on plunger lift due to water
<b></b>	a source of natural gas for injection into an oil reservoir undergoing ER
	on vacuum at the present time; KCC approval Docket No.
	not capable of producing at a daily rate in excess of 250 mcf/D
13	rior dapable of producing at a daily rate in officers of the many
I further agree to	supply to the best of my ability any and all supporting documents deemed by Commission
	corroborate this claim for exemption from testing.
, ··	· · · · · · · · · · · · · · · · · · ·
Date: 9/18/2013	
Date: 9/10/2010	
	Signature: Della Add
	Signature:
	Time

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.