KCC WICHITA

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

Type Test	t:	(See Instructions on Reverse Side)										
Open Flow		Test Date:				API No. 15						
Deliverabilty			5/18/11			15-185-23657-00-00						
Company Oil Producers, Inc. of Kansas			Lease Vosburgh			rgh	Well Number 1-2			Well Number		
County Stafford			Section 02		TWP 24S		RNG (E/W) 15W			Acres Attributed		
Field Hearn			Reservoir Viola/S	impson			Gas Gathering Con Lumen Energy		ection			
	Completion Date			Plug Bac 4182	k Total Depti	h		Packer Set at none				
Casing S 4.5				Internal C	Diameter	Set at 4220		Perforations 4062		To 4131	то <b>4131</b>	
Tubing S 2.375				Internal [	Diameter	Set at F		Perfo	Perforations			
Type Cor	npletion (D		** /**	Type Fluid Production SW				Pump Unit or Traveling Plunger? Yes / No				
Producing	n The Ar	L(Gas) inulus / Tubing)			arbon Dioxid	de		% Nitroc		Gas Gr	avity - G	
casing	g (	, ration , rabing,							, =		<b>,</b> - <b>g</b>	
Vertical D	Depth(H)			•••	Press	sure Taps				(Meter I	Run) (Prover) Size	
Pressure	Buildup:	Shut in _5/17	2	0 11 at 9	:45AM	(AM) (PM)	Taken_5/	18	20	11 at 9:45A	M (AM) (PM)	
Well on L	_ine:	Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hours	
Static / Dynamic	Static / Orifice Meter D		Pressure Differential	Flowing Well Head Temperature Temperature		Casing Wellhead Pressure		Wellhe	Tubing Wellhead Pressure		Liquid Produced	
Property	(inches)	Prover Pressure psig (Pm)	in Inches H <sub>2</sub> 0	t	t	(P <sub>*</sub> ) or (F pslg	(,) or (P <sub>e</sub> )	(P <sub>w</sub> ) o	r (P <sub>t</sub> ) or (P <sub>s</sub> ) psla	(Hours)	(Barrels)	
Shut-In						361.5	375.9			24		
Flow								l				
			<u> </u>		FLOW STR	EAM ATTR	IBUTES					
Plate Coeffied (F <sub>b</sub> ) (F	cient p) Pi	Giale one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fact	tor	Temperature F.		viation Metered Flow actor R F <sub>p*</sub> (Mcfd)		GOR (Cubic Feet/ Barrel)	1 Grandtu	
(0.)2		(0.3)		•	OW) (DELIV		=				<sup>2</sup> = 0.207	
(P <sub>e</sub> ) <sup>2</sup> =	<del></del> -	(P <sub>w</sub> ) <sup>2</sup> =_	hoose formula 1 or 2	P <sub>d</sub> =	<del></del> `	T	<sub>c</sub> - 14.4) +		<del></del> ;	(P <sub>d</sub> )	1	
(P <sub>e</sub> ) <sup>2</sup> - (	-	P <sub>o</sub> ) <sup>2</sup> - (P <sub>u</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>c</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>c</sub> <sup>2</sup>	LOG of formula 1. or 2.		Slo	ssure Curve pe = "n" - or signed	_ n x	LOG	Antilog	Open Flow Deliverability Equals R x Antillog	
(P <sub>e</sub> ) <sup>2</sup> - (	P.,1.	d	wided by: P2-P3	and divide by:	b. b. s		lard Slope				(Mcfd)	
-			•	_				_		·		
		j_				<u></u>		<u>l</u>				
Open Flo			Mcfd @ 14.			Deliverat				Mcfd @ 14.65 psi		
	•	id authority, on hin, and that sai		• •		•			ne above repo <b>Ja</b> y	ort and that he ha	s knowledge of 20	
the lacts s	staten mete	iii, and that sai	a report is trut	e and conec	i. Executed	uns ule <u> </u>		uay ur	hatt ()		, 20,	
	<del>-</del> , - <u></u>	Witness (il	Bny)			-			For C	Company	RECEIVED	
<u>-</u>	· · <u>-</u>	For Commis	sion		<del></del>	-	<del></del>		4 M	Cked by	JUL 07 2011	

exempt status un and that the fore correct to the bes of equipment ins	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Oil Producers, Inc. of Kansas going pressure information and statements contained on this application form are true and st of my knowledge and belief based upon available production summaries and lease records callation and/or upon type of completion or upon use being made of the gas well herein named. Hereit a one-year exemption from open flow testing for the Vosburgh 1-2
gas well on the g	rounds that said well:
(Chec	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
I further agre	ee to supply to the best of my ability any and all supporting documents deemed by Commissic
staff as necessa	ry to corroborate this claim for exemption from testing.
Date: <u>5/27/11</u>	Signature:

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 pressure be signed and dated on the front side as though it was a verified report of annual test results.

JUL 0.7 2011

### **MEASUREMENT SOLUTIONS INC.**

6705 East 81st Street Suite 155 Tulsa, OK 74133 Telephone 918-493-2700 Fax 918-493-2704

Page 41

3/31/2011

## GAS ANALYSIS REPORT

**METER NUMBER:** 

999999

**METER NAME:** 

**VOSBURGH** 

METER ID:

**OIL PRODUCERS** 

**PRODUCER:** 

**COMPANY** 

OIL FRODUCERS

OIL PRODUCERS

**SAMPLE TYPE:** 

SPOT

SAMPLE DATE:

03/18/2011

**SAMPLE PRES / TEMP:** 

390 / 52

**SAMPLED BY:** 

GM

**EFFECTIVE DATE:** 

03/01/2011

<b>COMPONENT</b>		PERCENT	<u>BTU VAL</u>	UES @ 14.65	BTU VA	LUES @ 14.73
Helium	He	0.6391	REAL DR	Y 1057.08	REAL (	DRY 1062.85
Oxygen	02	0.0000	REAL WE		REAL V	2002.00
Hydrogen Sulfide	H2S	0.0000	,,_,,_,	. 1050.50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1011.25
Carbon Dioxide	CO2	0.3897	;	•		
Nitrogen	N2	4.3448				
Methane	C1	86.1757	<u>GPM VALU</u>	<u>JES @ 14.65</u>	GPM VAI	<u>LUES @ 14.73</u>
Ethane	C2	4.8807	C2	1.2975	C2	1.3046
Propane	C3	2.4148	C3	0.6613	C3	0.6649
I-Butane	iC4	0.3159	iC4	0.1028	iC4	0.1033
N-Butane	nC4	0.5694	nC4	0.1785	nC4	0.1795
I-Pentane	iC5	0.0979	iC5	0.0356	iC5	0.0358
N-Pentane	nC5	0.1056	nC5	0.0380	nC5	0.0382
Hexane Plus	C6+	0.0664	C6+	0.0288	C6+	0.0290
TC	TALS	100.0000	_	2.3425		2.3553

#### **SPECIFIC GRAVITY**

#### **COMPRESSIBILITY FACTOR**

REAL DRY

0.6401

0.6398

Z FACTOR DRY

0.9977

Z FACTOR WET

0.9976

#### **GALLONS PER THOUSAND**

GPM TOTALS	@ 14.65	GPM TOTALS @ 14.73
C2 + GPM	2.3425	C2 + GPM 2.3553
C3 + PGM	1.0450	C3 + PGM 1.0507
C4 + GPM	0.3837	C4 + GPM 0.3858
C5 + GPM	0.1024	C5 + GPM 0.1030

**COMMENTS:** 

RECEIVED
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KCC WICHITA