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

Type Test: <b>Initi</b> a	al	Tes	t Date: o	104 10011					A	PI No. 15 - 15-1	189-207	11 - (77	
X Open Flow			. Du.u. 8	/24/2011						10 1	103 207.		
X Deliverability													
Company	<u> </u>				L	Lease			···		Well N	lumber	
	ExxonMobil Oil Corporation					Haworth					2-3	2-3	
County					ection TWP					IG (E/W)	Acres	Acres Attributed	
Stevens	NE NE	24	4 34S					36	SW .		640		
ield	16 16	Reser						Gas Gathering Connection					
			ase					Oneok Field Services					
Hugoton		Back Total Depth					Packer Set at						
Completion Date	279	•					none						
7/29/2011			ernal Diameter Set at					Perforations To					
asing Size	Weight		•						`				
5.5	15.5			5.012			3300 Set at			2760	<u>,                                     </u>		
ubing Size				Internal Diameter					Perforation				
3/8			1.99			2759			None	None			
ype Completion (De	escribe)		Туре	Fluid Product	ion		Pi	nmb (	Jnit or Traveli	ng Plunger?	X Yes /	No	
Workover	Gas Re-per	<u>f</u>	Sal	lt water									
Producing Thru (Ann	ulus / Tubina)		% Ca	Carbon Dioxide % Nitr					~		avity-G <sub>g</sub>		
Annulus		0.0	0.0490 14					1.8670 0.697					
ertical Depth (H)	Pressure Taps				(Met			(Meter l	er Run) (Prover) Size				
6550		Flange					2,067 in.						
'ell on Line:	Started Aug	26		20_1:	1 at	8:00	<u>)</u> AM	take	en <u>Auc</u>	27 20 <u>1</u>	1_at_8	:00 AM	
				OBSERVE	ED SUR	RFACE	DATA			Duration	of Shut-in	Hou	
Static/ Orifice	Circle One Pressu Meter or Different		Flowing Temperatu	Well Head			Pressure		Tubing Wellhead Pressure (P <sub>W</sub> or (P <sub>I</sub> )(P <sub>C</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Dynamic Size Property inches	Prover Pressure psig	in (h) inches H O	t	t		(P <sub>W</sub> )or (F				· · · · · · · · · · · · · · · · · · ·			
	Poig			<del>                                     </del>	psig p		psia	a psig		psia	<u> </u>		
Shut-in 0.750	63.0	Ö			63.2	3.2 77.6			0	14.4	48	125	
Flow 0.750	2.1	6.0			2.3		16.7		0	14.4	24	125	
				FLOW ST	REAM	ATTR	IBUTES	;					
				***					<del></del>	<u> </u>			
Plate	Circle One	Press		Gravity			9		eviation	Metered Flow	GOR	Flowing	
Coefficient	Meter or Prover Pressure	Extension  Pmx h w		Factor F	Temperature Factor F			Factor F pv		R (Mcfd)	(Cubic Fee Barrel)	V Fluid Gravity	
(Ђ)(ϝ) Mcfd	psig			ġ						(7		Gm	
			-		$\neg$								
		•	[		1		1			21 0	1		
2.779	16.5	40.4165	5807		I		1			31.8		1	
		<u> </u>		NAO (BE) # "	<u> </u>	1714	CA1 C11	A T*	ONE		<u> </u>		
		(OF	'EN FLC	W) (DELIV	EKABIL	LIIY) (	CALCU	LAII	ONS	<del> </del>			
2	2	050 00			A A						(P <sub>a</sub> ) <sup>2</sup> = 0.2 (P <sub>d</sub> ) <sup>2</sup> = _2	07 20 <b>7</b>	
$(c)^{\frac{2}{5}} = 6021.76$	(P <sub>w</sub> ) =	278.89		; P <sub>d</sub> = <u>14</u>	4.4 %	6 (P <sub>C</sub>	- 14.4) +	14.4 =		<del></del> :	(rd) = _4		
		Choose formu		LOG of [	1	Backpres	ssure Curv	e   _	١	11		pen Flow	
(P) <sup>2</sup> (P) <sup>2</sup>	2	1. P <sub>C</sub> -	1. P <sup>2</sup> <sub>C</sub> -P <sup>2</sup> <sub>a</sub> 2. P <sup>2</sup> <sub>C</sub> -P 2 divided by: P <sup>2</sup> <sub>C</sub> -P w			Siope = "n" or		l no	nxLOG	Amelian		Deliverability Equats R x Antilog Mcfd	
Cor 8 (P)2(P)2	(Pc) - (P) 2	2. P <sup>2</sup> <sub>c</sub>			2 2					Antilog	Equa		
c´ `d	divided by:		c-Pw	and divide Pc	Assigned Standard Slope		_	•	<u> </u>		<u></u>		
EQ14 76	E7/12 07	742.87 1.01251		0.005402		280 0.85		١	.00459238	1.010630	46 0.0	0.027317342	
5814.76	4.76 5742.87 1.012		TOTOT	0.00040			╅		,				
5814.76	5742.87	12.87 1.01251813		0.00540	280	0.85		0	.00459238	1.010630	1.01063046 0.0		
						ability 22 13904902 Mcfd @ 14.65 psia							
Open Flow	32.13804892		14.65 ps							32.13804892	ζ		
The unde	rsigned authority, o	on behalf of t	he Compa	any, states tha	at he is d	duly aut	horized to	o mak	ke the above r	eport and that he	has knowle	edge of the	
facts stated therein.	=					8th				ovember		- RECE	
									Chri	s Brow	chdan		
\A/i	tness (if any)		· · ·					-	0	1 For Com	pany /	MUV 0	
VVI	uicoo (ii aliy)								Dunk RMIL				
	. 0	·····						-	V-2-00	Checked	bv	KCC MAIL	
Fo	r Commission									·	-,	KCC WI	