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Kansas Corporation Commission

Form G 2
(Rev. 7/03)

One Point Stabilized Open Flow or Deliverability Test(CC WICHITA)

Type Test:					(See I	nstructio	ons on	Reverse	e Side)								
`	en Flow Iiverabili	ty .		Test D	ate:		01/0	7/201	1			API No.		•	150812	19150	000	
Company OXY USA	\ Inc						Lease				z	M FARMS	S A 2		,	Well Nu	ımber	_
County Haskell			cation L & 330' I	-WL	Section 11			TWP 30S				G (E/W) 32W	•		,		Attributed 40	-
Field LOCKPO	RT				Reservoir Chester							Gathering eOk	Conn	ection				_
Completior 11/24/201			:		Plug Back 5,	Total 510'	Depth				Pac	ker Set at						_
Casing Siz 5 1/2"	е		eight '.0#		Internal Di 4.892"	amet	er		t at 740'			Perforation 5,354 '	s		To 5,4 ′	12'		
Tubing Size	е	· We	eight		Internal Di	amet	er	Se	t at			Perforation	s		То			
Type Comp		Describe)			Type Fluid	Proc	luction				Pun	np Unit or T	ravelir	ng Plu	inger?	Y	Yes / No	
Producing	Thru (Ai		ubing)		%		on Dioxi 347%	ide				litrogen 19.151%		ı	Gas Gra	avity G	Gg	_
Vertical De						I	Pressure Flar	•							(Meter F	Run) (P 3.06 8	rover) Size	
Pressure B	Buildup:	Shut in	01/	03	20 11	at	9:00 [⊿ AM	□РМ	Taken		01/06	2(0 <u>11</u>	at	9:00	☑AM □ P	M
Well on Lin	ne:	Started	01/	06	20 11	at	9:00 [✓ AM	□РМ	Taken		01/07	20	<u>11</u>	at _	9:00	☑AM □ P	М
						ОВ	SERVE	ED SU	RFAC	E DATA	1	Du	ıratior	n of S	hut in	72	Hours	
Static / Dynamic	Orifice Size	ice <i>Meter</i> Differe		Pressu Differer in	ntial Flowing Well Temperature Tempe		Well Hea	rature (P _w) or (P _t) or (P _c		d Pressure (P _t) or (P _c)	(P _w) or (P _t) or (Pressur P _t) or (P _c	(P _c) Duration			Liquid Produce	ed
Property (inches) psig (Pm) Inches I			H ₂ O t t			+,	psig psia 402.2 416.6			psig 0.0		psia (Hours) 0.0 72			(Barrels)	ᅥ		
Flow	2.25	0	61.3	30.	1 74	,	75	1	275.9	290.	3	0.0	0.	0	2	4	0	٦
						FL	.ow st	REAM	ATTRII	BUTES					-			
Plate Coefficien (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressul psia	re Ext	ress ension _m x h	Gravity Factor F ₀		Flow Tempe Fac	rature tor	Fa	riation actor F _{pv}		Metered Flow R (Mcfd)			GOR Feet/Barre	1)	Flowing Fluid Gravity G _m	
29.520	0	75.7	4	7.73	1.176	1	0.98	368	1.0	056		1645						
(P _c) ² = 1	73.6	: (P,	_w) ² = 84	. 3 :	(OPEN I	LOV	V) (DELI	IVERA %	•	CALCU 4.4) + 14			:			$(P_a)^2 = (P_d)^2 =$	0.207	
(Pc)2 (Pa) or (Pc)2 (Pd)	(F	Pc)2 (Pw)2	Choose Form 1. Pc2 2. Pc2 divided by:	Pa2 Pd2	LOG of formula 1. or 2. and divide by:	Pc	2 Pw2		kpressure Slope = "r or Assigned tandard Sl	n" I	nxl	LOG		A	ntilog	E	Open Flow Deliverability quals R x Antilog (Mcfd)	
173.3		89.3	1.94	16	0.2	2882			0.8360)		0.2409		1.	7414	<u></u>	2865	_
	L																	_]
Open Flow		2,865	Mc Mc	fd @ 14.6	35 psia	,		Deliver	ability				Mo	fd @ 1	14.65 psi	a 		
the facts stated	d therein, a		•	•		•	tates that he			d to make i	the ab	ove report and Janu		has kno	wiedge of	,	2011	
			Witness				_					(OXY I	USA Zimpan				
												TOHRA	//	10.	<u>_</u>	Inc.		
		F	or Commission				_					-		cked by				



5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521 P.O. Box 27570, Houston, Texas 77227-7570

Phone: 713-215-7623

713-350-4873

Tom Acton
Mid-Continent Business Unit

December 29, 2010

Jim Hemmen Finney State Office Building 130 S. Market, Room 2078 Wichita, KS 67202-3802 RECEIVED

KCC WICHITA

JAN 1 2 2011

Dear Mr. Hemmen:

Please find enclosed, the One Point Stabilized Open Flow/Deliverability Test, Multipoint Back Pressure Test, and Gas Analysis Certificate for the following well:

ZM Farms A-2

Section 11-T30S-R32W

If you have any questions or concerns please contact me at any time.

Regards,

Tom Acton

Gas Flow Coordinator

Enclosures: 2010 Form G-2/CG-1

Gas Analysis Certificate

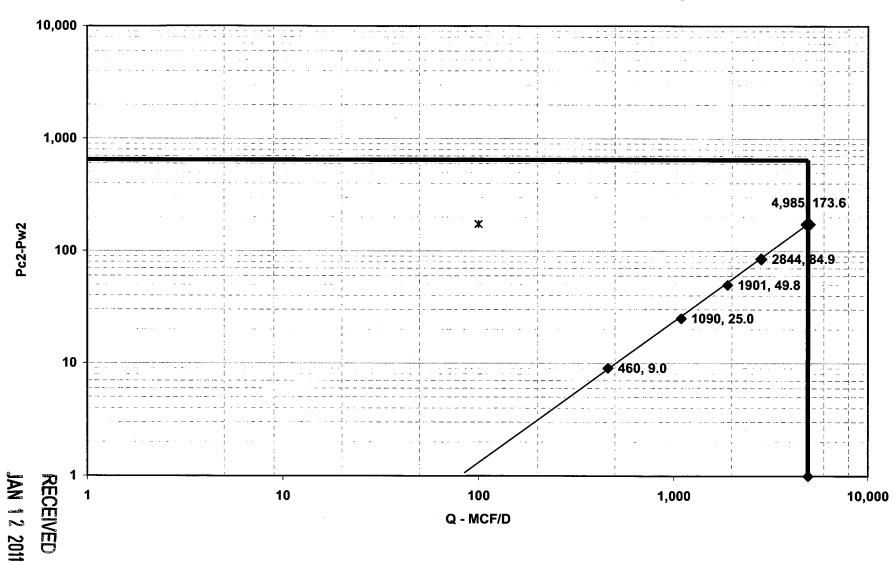
Cc: New Well Test File

State of Kansas - Corporation Commission Multipoint Back Pressure Test

Form CG-1 (Rev. 10/96)

Type Test	t: [☑ Initial		Annual	Specia	ı		•	Test Dat	e: 01 /	07/2011			
Company OXY USA						Lease ZM FARM	MS A 2				We	ell Number		
County Location Haskell 1980' FSL & 330' FWL					ection	VP 0 S		NG (E/W 32W)	Acres Attributed 640				
API No. 1508121 9	9150000				Reservoir Chester				Pipeline Connection OneOk			RECEIV		
Completion Date 01/00/1900					Plug Back Total Depth 5,510'				icker Se	at	To KCC WICHITA			
Casing Size Weight 5 1/2" 17.0#				ernal Dia	meter	Set at 5,740 '		Perfora 5,354'	tions	To KCC WICHIT				
Tubing Size Weight				Int	ernal Dia	meter	Set at		Perfora	tions	То			
ype Con	npletion (D	escribe)		•	pe Fluid F	Production					<u> </u>			
roducino	Thru (An	nulus / Tu	ıbina)	Re	servoir T	emperature	∍°F				BAR	PRESS -Pa		
	Annulus					133					14	l.4 Psia		
as Grav	rity - G _a			%	Carbon D	ioxide		%	Nitroger)				
0.72	•				0.347%				19.151%					
/ertical D	enth (H)					Type Met	er Connec	tion			(Meter R	un) (Prover) Size		
5,38						• •	nge				•	3.068"		
						OBSERVE	D DATA			Duration of	Shut-in	72 Hours		
		Circle	Эле:	Pressure		T	Ca	sing	Tubing		T			
	Orifice Size		Meter Prover Pressure		Flowing Temperature	Well Head Temperature	Wellhead Pressure (P _w) or (P _t) or (P _c)				Duration	n Liquid Produced		
Rate No	(inches)			in Inches H ₂ O	t	` t	psig	psig psia		psig psia		(Barrels)		
hut-In	0.050	40			47	0	402.2	416.6	0.0	0.0	72			
2	2.250 2.250	42. 55.		14	47 65	75 75	391.2 371.0	405.6 385.4	0.0	0.0	1 1	0		
3	2.250	75		34	74	75	337.4	351.8	0.0	0.0	 i	0		
4	2.250	83.		70	77	75	283.4	297.8	0.0	0.0	1	0		
5					PAT	OF ELOW C	ALCIU ATIO	Ne .			<u> </u>			
	Plate					OF FLOW C		NS		Data of	T	Flowing		
	Coefficien			Exte	ress ension	Gravity	Flowing Temperatu		riation	Rate of Flow		Fluid		
Rate No	(F₀) (Fℴ) Mcfd			€	x h	Factor F _a	Factor F _{ft}	Factor F _{pv}		Q Mcfd	GOR (Cubic Feet/B	Gravity Barrel) G _m		
1	29.52			13	3.03	1.1761	1.0127	1.0	005	460				
3	29.52 29.52	70.3 89.4			.37	1.1761 1.1761	0.9952 0.9868		005 007	1090 1901	<u> </u>			
4			97.6		2.66	1.1761	0.984		007	2844	<u> </u>			
5														
					PR	ESSURE CAL	CULATION	3						
								Plotting Points				% Shut-In (Pw - Pa)		
Data Na	P _t	P _c		P _w	(P _c) ²		(P _w) ²		c) ² - (P _w) ²	Q	100			
Rate No	Psia Psia 416.		;	Psia 405.6	Thousands 173.6		Thousands 1		9.0	Md		(P _c - P _a) 97.3%		
2			416.6 38		173		148.5		25.0	109		92.2%		
3		416.6		351.8	173		123.8	49.8 84.9		190				
5		416.6	'	297.8	173	0.0	88.7		04.5	204	 	70.5%		
	ellhead Open	Flow	4	1,985	N	Acfd @ 14.65	psia	•		_	"n" =	0.786		
		The undersign	ed authorit	y, on behalf of	the Company,		duly authorized	d to make the a		and that he has k	nowledge of	2011		
		1450	- (16 `	<u>.</u>		<u>_</u>				OXY USA				
		Witnes	s (If any)							For Comp	Co	•		
		F- ^							Tom	Acton - O	(Y USA In	<u>c</u>		
		For Co	mmission							Checked	DV			

ZM FARMS A 2 Section 11, T30S, R32W Haskell County, Kansas



KCC WICHITA

Gas Analysis Certificate Report

Well Name: Analysis ID:	Z M FARMS A-2		Alternate ID: Company Name:	OXY USA Inc	•
Effective Date: Valid Through Date:	12/13/10 3:58 PM 12/14/11	Saturated HV: As Delivered HV	1066.9 :	Sample Date: Sample ID:	12/13/10
Last Update:	12/15/10 1:12 PM	Dry HV:	1066.9	Sample Type:	SPOT
Data Acquisition:		Gravity:	0.7150	Sample Pressure Base:	14.730
Data Source:		Status:	ACTIVE	Sample Temperature:	0.0
				Sample Pressure:	0.0
Component	% Mol	GPM		Gravity - Dry	
Methane	74.8700	12.6897		Gravity - Saturated	
Ethane	6.9560	1.8591			
Propane	3.7730	1.0388			
I Butane	0.6250	0.2044			
N Butane	1.0610	0.3345			
I Pentane	0.2510	0.0919			
N Pentane	0.2710	0.0981			
Hexane	0.2240	0.0921			
Heptane	0.0000	0.0000			
Octane	0.0000	0.0000			
Nonane	0.0000	0.0000			
Decane	0.0000	0.0000			
Nitrogen	11.4930	1.2641			
CO2	0.2370	0.0402			
Oxygen	0.0000	0.0000			
H2O	0.0000	0.0000			
СО	0.0000	0.0000			
H2S	0.0000	0.0000			
Hydrogen	0.0000	0.0000			
Helium	0.2390	0.0000			
Argon	0.0000	0.0000			
Total	100.0000	17.7129			

Sample Comments:

Configuration Comments:

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