Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1165023

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY								
Confidentiality Requested								
Date:								
Confidential Release Date:								
Wireline Log Received								
Geologist Report Received								
UIC Distribution								
ALT I II III Approved by: Date:								

	Page Two	1165023
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		Log Formatic	on (Top), Depth an	nd Datum	Sample	
Samples Sent to Geolog	,	Yes No	Nan	ne		Тор		
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No						
List All E. Logs Run:								
		CASING Report all strings set-		lew Used termediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
		ADDITIONAL	L CEMENTING / SQ	UEEZE RECORD				
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives		
Protect Casing Plug Back TD								
Plug Off Zone								
Did you perform a hydraulic	fracturing treatment o	n this well?		Yes	No (If No, ski	p questions 2 an	d 3)	

Did you perform a nyuradilo naotanny irealment on this weil?
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?

Yes No

No

Yes

(If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					Δ	Depth			
TUBING RECORD:	Siz	re:	Set At:		Packer	r At:	Liner Ru		No	
Date of First, Resumed	Producti	on, SWD or ENHF	} .	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI		۵۵s.			METHOD				PRODUCTION INT	EBVAL:
	_	Jsed on Lease		Open Hole	Perf.	Dually	Comp.	Commingled		
(If vented, Su	bmit ACO	-18.)		Other (Specify))	(Submit /	,	(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Kate 3406 1-4
Doc ID	1165023

Tops

Name	Тор	Datum
Heebner	3198	-1931
Lansing	3556	-2290
Cottage Grove	3827	-2560
Oswego	4151	-2885
Cherokee	4276	-3010
Mississippian	4493	-3227
Kinderhook	4871	-3605
Woodford	4933	-3667
Simpson	4960	-3694

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

October 24, 2013

Wanda Ledbetter SandRidge Exploration and Production LLC 123 ROBERT S. KERR AVE OKLAHOMA CITY, OK 73102-6406

Re: ACO1 API 15-077-21944-00-00 Kate 3406 1-4 SE/4 Sec.04-34S-06W Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Wanda Ledbetter

	1			V		PROJECT NOME		T	CKET DATE	07/40/42		
							SOK 2865 07/10/13 CUSTOMER REP					
Harper	Kansas Wel No.		Sandridge Exploration & Production									
Kate 3406	1-4	Produc	tion				BRETT	ARM	IER			
EMP NAME												
BRETT ARMER	0											
NATE COTTA				\vdash				-				
VONTRAY					Mada da Matangan Katang Pang Sala							
Form. Name	Type:			1								
				Call	ed Out	On Locatio	on l.		Started		mpleted	
Packer Type Bottom Hole Temp. 1	Set Al 50 Press		Date	1	7/9/2013	7/10/2	013	1	/10/2013		10/2013	
Retainer Depth	Total	Depth 5,102'	Time	L	2230	0700			1250	1:	347	
Tools and Type and Size	d Accessori		r		New/Used	Well [-	Energy I	T .	IN ALL	
Auto Fill Tube	Qty	Make IR	Casing	1	New/Osed	17#	Size Gra		From Surface		Max. Allow 5,000	
Insert Float Val	0	İR	Liner			1.1.1						
Centralizers	0	IR	Liner									
Top Plug	0	IR	Tubing				0					
HEAD Limit clamp	0	IR IR	Drill Pi Open I			1	7%"		Surface	5,107'	Shots/Ft.	
Weld-A	0	İR	Perfora				1	+	Junace	0,107	SHOIS/FI.	
Texas Pattern Guide Shoe	0	IR	Perfora									
Cement Basket	0 erials	IR	Perfora		ocation	Onerating			Description	New of Lab		
Mud Type WBM	Density	9 Lb/Gal	Date		Hours	Operating Date	Hours		endinentian (London Links	tion of Job		
Disp. Fluid Fresh Water	Density	8.33 Lb/Gal	7/10		8.0	7/10	1.0		Product	ion		
Spacer type resh Wate BI Spacer type Caustic BI	BL. <u>20</u> BL 10	- <u>8.33</u> 8.40										
Spacer type Caustic BI Acid Type G	al. <u>10</u>	-%						-			·	
Acid TypeG	al.	%										
	al	_In										
	al. al/Lb	_in		\rightarrow				-	***			
	al/Lb	_in						-				
Fric. RedG	al/Lb	_In										
MISCG	al/Lb	_ln	Total	L	8.0	Total	1.0					
Perfpac Balls	Qty.					Pre	essures					
Other			MAX		5.000 PSI	AVG	300					
Other			MAX		8 BPM	Average AVG	Rates in E	BPM				
Other			IVIAA		0 DFW		Left in P	ine				
Other			Feet		89	Reason						
			- 104									
Stage Sacks Cen	nent	1	C Additive		nt Data				W/Rg	. Yield	1 ho/Col	
	PREMIUM	4% Gel - 0.4% Fl			- 0.1% C-20 - 0	0.1% C-37 - 0	0.5% C-41	P	6.77	1.44	Lbs/Gal 13.60	
2 100 Pren	nium	0.4% FL-17 - 0.1	% C-51 - 0.	1% C	-20 - 0.4% C-4	1P			5.20	1.18	15.60	
3 0 ()								0 0.00	0.00	0.00	
			Sur	nmar	ν							
Preflush	Type:		Exercise	F	Preflush:	BBI	15.0			10ppg Bar		
Breakdown	MAXIN		5,000 PSI NO/FULL		oad & Bkdn:		N/A		Pad:Bbl		N/A	
	Actual		NUTULL		Excess /Returr Calc. TOC:	1001	3.23		Calc.Dis Actual D		111 111.00	
Average	Bump	Plug PSI:		F	Final Circ.	PSI:	1,05	0	Disp:Bbl		111.00	
.sip5 Min	10 Min	15 N	1in		Cement Slurry: Fotal Volume		83.0 209.0					
						BBI	203.0	<u> </u>				
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•		0	2						
CUSTOMER REPRE	ESENTATI	VE <	1-	r	26	2.5					•	
			9			SIGNATURE						

				JOB LOG	1	PROJECT NUMBER SOK 2865	TICKET DATE 07/10/13			
COMPANY			COUNT	TRY	STATE	COUNTY				
Sandridge E	ploration 8	Productio Well No		A DYEE NAME	Kansas Harper					
Kate 340	6 1-4		BRI	ETT ARMER	Greg Rivera					
FIELD Eastham	North		4/34	WP/RNG IS/6W		18,023.59				
аріллія 15-077-21	1944-00-	00		RPOSE duction		WELL TYPE Oil & Gas				
		Rate	1.1.1.1.1.1							
	Time	(BPM)	Volum			Job D	escription / Remarks			
7-10-13	0500	- (eri m)	(ouri/couri)		129	TIME AR	RIVED IN YARD			
	0515					Fit for	duty meeting			
	0530						ocation from yard!			
	0700					Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of th	e on location			
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	1230					Safe	ty meeting			
	1250			5000			est lines			
	1252	4.0	15.0	200		Pump weighted spacer				
	1301	5.0	62.0	200			ment @ 13.6 (240sks)			
	1317	5.0	21.0	140			@ 15.6 (100sks)			
	1326				ļļ		D/P W/L			
	1328	9.0	111.0	1050			0 displacement			
	1347	4.0		1630	┼───┼─		Bump plug			
	1348			HELD	<u> </u>		eck floats			
	1400 1500				<u> </u>		ig down ve location			
	1000					Leav				
							a na ang na ang na ang na ang na ang na ang na ang na ang na ang na ang na ang na ang na ang na ang na ang na a			
				┥-	<u> </u>	/1				
							SOR SIGNITURE			
	Final lift	Floats	PSION		<b>↓</b>	× / Dat	4			
Plug	Psi	Held	CSG	SURFACE	┠	المسل				
YES	1050	YES	1630.0							

	OR SUMM	AR'	/		PROJECT NOMB	2846	TICKET DATE	07/04/13		
						CUSTOMER REP Crost Divort				
	JOB TYPE		10	Juc	EMPLOYEE NAM	Greg Rivera				
Kate 3406 1-4	Surface	•			L	OUIS A	RNEY			
EMP NAME							T			
M. QUINTANA										
ROY MORRISON										
D. TEWELL										
Form. NameType			Cal	led Out	On Locatio	n Ll	ob Started	Llob Cr	ompleted	
Packer Type Set A	t 0	Date	Cal	7/4/2013	7/4/20		7/4/2013	7/	4/2013	
Bottom Hole Temp. 80 Press		Time		0630	1100		1701	1	830	
Retainer Depth Total	Constanting of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the loc	Time		0630	Well [	Data	1101		000	
Type and Size Qty	Make			New/Used				To	Max. Allow	
Auto Fill Tube 0	IR	Casing			24#	8%"	Surface	650'	1,500	
Insert Float Val 0 Centralizers 0	IR IR	Liner								
Top Plug 0	IR	Tubing				0				
HEAD 0	IR	Drill Pi				12%"	Curtono	650'	Shots/Ft.	
Limit clamp 0 Weld-A 0	IR IR	Open H Perfora				1274	Surface	650	Shots/Ft.	
Texas Pattern Guide Shoe 0	IR	Perfora								
Cement Basket 0	IR	Perfora			0		Deserie	tion of Joh		
Mud Type WBM Density	9 Lb/Gal	Hours Date		ocation Hours	Operating Date	Hours		otion of Job		
Disp, Fluid Fresh Water Density	8.33 Lb/Gal	7/4		7.5	7/4	1.5	Surface	2		
Spacer type resh Wate BBL. 10	8.33									
Spacer type BBL Acid Type Gal	-%		_							
Acid Type Gal	%									
SurfactantGal NE Agent Gal	in In									
Fluid Loss Gal/Lb										
Gelling Agent Gal/Lb										
Fric. Red Gal/Lb MISC. Gal/Lb	In In	Total		7.5	Total	1.5				
		rotai	2							
Perfpac Balls Qty.		MAX		1,500 PSI	Pr AVG.	essures 13	0			
Other					Average	Rates in I	BPM			
Other		MAX		6 BPM	AVG	4 t Left in P				
Other		Feet		46		SHOE J				
				ent Data			W/Re	a. Yield	Lbs/Gal	
Stage Sacks Cement	65 (6% Gel) 2% Calc	Additive	ride	- %pps Cello-	Flake5% C	-41P	10.8		12.70	
2 105 Premium Plus (Class (	1 2% Calcium Chlor	ride - 1/4pt	os C	ello-Flake			6.32	1.32	14.80	
3 *100 Premium Plus (Class C	) *2% Calcium Chlo	oride on s	ide	to use if neces	ssary		*6.3	2 *1.32	*14.8	
		Su	mm	arv				l	1	
Preflush Type				Preflush:	BBI	10.0			n Water	
Breakdown MAX		500 PSI		Load & Bkdn Excess /Retu		N// 59			N/A 37	
Actu	al TOC S	URFACE		Calc. TOC:		SURF	ACE Actual	Disp.	37.00	
	Plug PSI:	830		Final Circ.	PSI:	230		bl		
IS:P5 Min10 M	in15 Mi			Cement Sluri Total Volume		170.				
							1			
	1			1	1					
CUSTOMER REPRESENTA		<u>``</u>		Great	SIGNATURE					
				/	SIGNATURE			Contractor De la		

			JO	B LOG	PROJECT NUMBER SOK 2846	TICKET DATE 07/04/13				
OMPANY		Draduation			STATE Kansas	COUNTY Harper				
LEASE NAME Well No. EMPLOYEE NAME						CUSTOMER REP	- That per			
Kate 3406 1-4 LOUIS ARNEY						Greg Rivera				
Eastham	North		4/345/6	W		Ĩ#REF!				
PILIWI# 15-077-21		0	JOB PURPOSI			OIL & Gas				
15-077-21	544-00-0	0	Junac							
		Rate		Ducco		loh	Description / Remarks			
	Time	(0014)	Volume	Press.	Tbg	300	Job Description / Remarks			
71410040	0800	(BPM)	(BBL)(GAL)	030.	ibg	TIME A	RRIVED IN YARD			
7/4/2013	0805					Fit fc	or duty meeting			
	0805						location from yard!			
	1100						red on location			
	1105						fety meeting			
	1110						Rig up			
	1701						fety meeting			
	1704	1.0	1.0	1500			ressure test			
	1707	3.0	10.0	100			Pump H2O			
	1710	3.0	98.0	150			lead CMT @12.7#			
	1742	4.0	25.0	150			tail CMT @ 14.8 #			
	1748	4.0		130			he plug & Start displacement			
	1758	2.5	30.0	180			down to bump the plug			
	1800		37.0	230			se the pressure			
	1803						afety meeting			
<b>.</b>	1805 1807			++		01	Rack up			
	1807			++		GO	HOME SAFELY			
	1030			++						
				-						
			<b> </b>							
			<b> </b>							
			├			SUPER	VISOR SIGNITURE			
Bumped	Final lift	Floats	PSI ON	CEMENT		X				
Plug	Psi	Held	CSG	SURFACE						
YES	230	YES	830.0	YES						
			State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State	59 bbls						