

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1170595

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:			Sec.	TwpS. R	East _ West					
Address 2:			Feet from North / South Line of Sect							
City:	State: Z	ip:+	Feet from East / West Line of Sect							
Contact Person:			Footages Calculated from Nearest Outside Section Corner:							
Phone: ()			□NE □NW □SE □SW							
CONTRACTOR: License #			GPS Location: Lat:	, Long:						
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)					
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84						
Purchaser:			County:							
Designate Type of Completion:			Lease Name:	W	ell #:					
	e-Entry	Workover	Field Name:							
	_		Producing Formation:							
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW ∏ SIGW	Elevation: Ground:	Kelly Bushing:						
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total D	epth:					
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet					
☐ Cathodic ☐ Other (Co	ore. Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No					
If Workover/Re-entry: Old Well I			If yes, show depth set:							
Operator:			If Alternate II completion, c	cement circulated from:						
Well Name:			feet depth to:	w/	sx cmt.					
Original Comp. Date:										
Deepening Re-perf	J	ENHR Conv. to SWD	Drilling Fluid Managemer	nt Plan						
Plug Back	Conv. to G		(Data must be collected from to							
Commingled	Permit #		Chloride content:	ppm Fluid volume	: bbls					
Dual Completion			Dewatering method used:_							
SWD			Location of fluid disposal if	hauled offsite:						
ENHR	Permit #:									
GSW	Permit #:		Operator Name:							
			Lease Name:							
Spud Date or Date R	eached 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 Approved by: Date:									

Page Two



Operator Name:				_ Lease l	Name: _			Well #:						
Sec Twp	S. R	East \	West	County	:									
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whether s with final chart(shut-in pre s). Attach	ssure reac extra shee	hed stati t if more	c level, hydrosta space is neede	tic pressures, bot d.	tom hole temp	erature, flui	d recovery,				
Final Radioactivity Lo- files must be submitte						ogs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital el	ectronic log				
Drill Stem Tests Taker (Attach Additional S		Yes	☐ No		_		on (Top), Depth ar			mple				
Samples Sent to Geo	logical Survey	Yes	No		Nam	е		Тор	Da	tum				
Cores Taken Electric Log Run		Yes Yes	☐ No ☐ No											
List All E. Logs Run:														
			CASING		☐ Ne									
		1				ermediate, product		T	_					
Purpose of String	Size Hole Drilled	Size Cas Set (In O		Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used						
		AD	DITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD								
Purpose:	Depth Top Bottom	Type of Ce	ement	# Sacks	Used		Type and P	ercent Additives						
Perforate Protect Casing	100 20111111													
Plug Back TD Plug Off Zone														
1 lug 0 li 20110														
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	p questions 2 ar	nd 3)					
Does the volume of the to								p question 3)						
Was the hydraulic fractur	ing treatment information	on submitted to the	e chemical c	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)				
Shots Per Foot		ION RECORD - I				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth								
						,		,						
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:								
							Yes No							
Date of First, Resumed	Production, SWD or Ef		ducing Meth Flowing	od:	g 🗌	Gas Lift (Other (Explain)							
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls. 0	as-Oil Ratio		Gravity				
DISPOSITIO	ON OF GAS:		N/	1ETHOD OF	COMPLE	TION:		PRODUCTION)N INTER\/^	1.				
Vented Sold		Open I	_	Perf.	Dually	Comp. Cor	mmingled	THODOCTIC	ZIN IIN I ERVA	L.				
	bmit ACO-18.)	Other	(Specific)		(Submit)		mit ACO-4)							

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Michael 3020 1-20
Doc ID	1170595

Tops

Name	Тор	Datum
Anhydrite	2632	-357
Heebner	4303	-2028
Lansing	4471	-2195
Marmaton	4988	-2673
Oswego	5027	-2703
Pawnee	5076	-2738
Cherokee	5122	-2768
Morrow	5302	-2868
Mississippi	5386	-2904

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/

Sam Brownback, Governor

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

November 26, 2013

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

Re: ACO1 API 15-097-21766-00-00 Michael 3020 1-20 SW/4 Sec.20-30S-20W

Kiowa 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

Schlumberger SEP 1 3 2013 Cementing Service Report

			SANDRID	TORY DEP	Y_	12. Val. 1			Sandridge	Loophie			T	18457	/84
Well	micheal 30	20 1-20		Location (legal)				Schlumberger	Location	cation			Job Start Sep/03/2013		
Field			Formation Name	/Туре	Deviation deg		Bit Size 12.3 in	E .	Well MD			Well T	750.0 ft		
County	kiowa		State/Province	kansas		BHP BHST degF		вно	r degf		Pore Press. Gradient				
	631483253		API/UWI	T		18.0				Casing		CA (10,100.10	Constitution of		oria ivializat
Rig Name lamuymuyon di	rilling 1	Drilled For		Service Via		21,100		T	Size, in	The state of the s	Casing/Liner Veight, lb/ft		Grade		Thread
						Depth, ft		-	9.6	36			j55		ltc
Offshore Zone		Well Class	New	Well Type Development			750.0 0.0	+-	0.0	0.			100	_	110
D 1111 PL 14 PR			Max. Density	Plastic Viscosit		Carrier.	0.0			ubing/Drill					1147.44.2
Drilling Fluid Typ	lb/gal cP		y	T/D	Depth, ft		Size, in	85.75 17.57 11.52	t, lb/ft	102.000,000	Grade		Thread		
Service Line		Job Type													
Cement	ting		surfac	ce											
Max. Allowed Tub	o. Press	Max. Allowe	ed Ann. Press	WH Connection					Perf	orations/O	en Hole	Maria Maria			
3000 p	osi		psi	head		Te	op, ft	В	ottom, ft	shot	/ft	No. of	Shots	Т	otal Interval
Service Instruction	ons						ft		ft						ft
cement 9 5/8 su	ırface						ft		ft					E	liameter
							ft		ft						in
						Treat Down Casing Tubing Vol. bbl		Displacement bbl		Packer Typ		Packer Dep		Depth ft	
									Casing Vol.		Annula	r Vol. bbl		Openh	ole Vol. bbl
Casing/Tubing Se	ecured	X 1 Ho	le Vol. Circulated p	rior to Cement	x		10000000	sing T	ools				Squeeze	Job	
Lift Pressure			5-3	Shoe		_		guide	Squeez	е Туре					
Pipe Rotated			rd		Shoe				ft	Tool Ty					
No. Centralizers Top Plugs 1				+	Tool Type				Tool D						
Cement Head Typ		sin		Stage Tool Depth						ft	Tail Pig				
Job Scheduled Fo		Arrived on		Leave Location							float Tail Pipe Depth				
Sep/03/2013		1000	8/2013 20:00	Sep/04/2013 04:	00	Collar Depth				ft	Sqz. To	Total Vol.			
Date	Time 24-hr clock	Trea Pres F	iting Isure PSI	Flow Rate B/M		Density LB/G			Volume BBL			Me	essage		
09/04/2013	01:48:32		-5	0.0			8.43		0.0	Started	Acquisiti	on			
09/04/2013	01:49:52		54	2.2			8.43		0.0		•				
09/04/2013	01:49:54	9 9 9	54	2.2			8.43		0.0	Start Job			i ee	2818	A
09/04/2013	01:51:12		599	0.0			8.43		0.0						
09/04/2013	01:52:12		722	0.0			8.43	-	0.0	Pressure	Test Lir	nes			
09/04/2013	01:52:32		3458	0.0			8.43		0.0						
09/04/2013	01:53:52		4993	0.0			8.43		0.0						
09/04/2013	01:55:12	1	4535	0.0			8.43		0.0						
09/04/2013	01:56:32	1	4229	0.0			8.43		0.0						
09/04/2013	01:57:47		4354	0.0	44.6		8.43		0.0	Pressure	Test Lin	nes		H 10.7	a. jimi-i
09/04/2013	01:57:52		4343	0.0			8.43		0.0						
09/04/2013	01:58:49	1	12	0.0			8.43		0.0	Reset To	otal, Vol	= 1.92 b	bl	. 12	5 2 3
09/04/2013	01:58:50		12	0.0			8.43		0.0	Start Pu	mping S	pacer			
09/04/2013	01:59:12	1	55	1.5			8.43		0.0						
09/04/2013	02:00:32		153	3.5			8.11		0.0						
09/04/2013	02:01:52	1	207	6.4			8.38		0.0						
09/04/2013	02:02:53	9 H. S.	214	6.3	11.	17. g 18. 19. g 18.	8.43		0.0	Reset To	otal, Vol	= 20.38	bbl		
	02:02:55	1	218	6.3	5 '2	er er	8.43	-	0.0	End Spa	cer				
09/04/2013							8.60		0.0	1					
	02:03:12	1	219	7.0			0.00								
09/04/2013 09/04/2013 09/04/2013	02:03:12		219	6.1			13.41		0.0						

Well mid	Well micheal 3020 1-20			Job Start Sep/03/201	Customer 3	Sandridge	Job Number 1845784		
Date	Time	Treating	Flow	Density	Volume	A CONTRACTOR	Message		
	24-hr clock	Pressure PSI	Rate B/M	LB/G	BBL				
09/04/2013	02:08:32	220	6.4	12.42	0.0				
09/04/2013	02:09:52	234	6.5	12.44	0.0				
09/04/2013	02:11:12	235	6.4	12.39	0.0				
09/04/2013	02:12:32	247	6.4	12.45	0.0				
09/04/2013	02:13:52	226	6.4	12.43	0.0				
09/04/2013	02:15:12	225	6.3	12.40	0.0				
09/04/2013	02:15:40	241	6.2	12.48	0.0	Reset Total, Vol =	82.09 bbl		
09/04/2013	02:15:44	244	6.2	12.43	0.0	End Lead Slurry			
09/04/2013	02:16:32	308	6.8	13.91	0.0				
09/04/2013	02:17:52	363	6.3	14.94	0.0				
09/04/2013	02:19:12	304	6.3	14.80	0.0				
09/04/2013	02:19:59	22	1.7	14.89	0.0	Reset Total, Vol =	27.53 bbl		
09/04/2013	02:20:03	20	0.3	14.91	0.0	End Tail Slurry			
09/04/2013	02:20:04	20	0.3	14.91	0.0	Drop Top Plug			
09/04/2013	02:20:32	13	0.0	14.96	0.0				
09/04/2013	02:21:52	. 17	0.6	14.72	0.0				
09/04/2013	02:23:12	113	4.6	9.34	0.0				
09/04/2013	02:24:32	120	4.6	8.62	0.0				
09/04/2013	02:25:52	114	4.6	8.48	0.0				
09/04/2013	02:27:12	125	4.5	8.45	0.0				
09/04/2013	02:28:32	162	4.5	8.44	0.0				
09/04/2013	02:29:52	225	4.5	8.44	0.0				
09/04/2013	02:31:12	225	4.5	8.44	0.0				
09/04/2013	02:32:32	185	2.8	8.44	0.0				
09/04/2013	02:33:52	192	2.0	8.44	0.0				
09/04/2013	02:35:12	225	2.0	8.44	0.0				
09/04/2013	02:36:32	206	2.0	8.44	0.0				
09/04/2013	02:37:25	1204	0.0	8.44	0.0	Bump Top Plug			
09/04/2013	02:37:30	1202	0.0	8.44	0.0	End Displacement	a ja ja selesar jajah daran jer		
09/04/2013	02:37:32	1202	0.0	8.44	0.0	Reset Total, Vol =	56.35 bbl		
09/04/2013	02:37:52	1196	0.0	8.44	0.0				
09/04/2013	02:39:12	1176	0.0	8.44	0.0				
09/04/2013	02:40:32	1158	0.0	8.44	0.0				
09/04/2013	02:41:52	898	0.0	8.44	0.0				
09/04/2013	02:43:12	-4	0.0	8.44	0.0				
09/04/2013	02:44:32	-5	0.0	8.44	0.0				
09/04/2013	02:45:52	-2	0.0	8.44	0.0				
09/04/2013	02:47:12	-3	0.0	2.23	0.0				
09/04/2013	02:48:32	127	5.7	7.67	0.0				
09/04/2013	02:49:52	16	0.0	8.22	0.0				
09/04/2013	02:51:12	4	0.0	8.17	0.0				
09/04/2013	02:52:11	-1	0.1	8.24	0.0	End Job	2009-le-de Laine e-11 in 2009-		

Well	Field	Job Start	Customer	Job Number
micheal 3020 1-20		Sep/03/2013	Sandridge	1845784

Post Job Summary

		Average	Pump Rates, bbl/1	nin					Vol	ume of Fluid Inj	ected, bbl			100		
Slurry		12	Mud	14	aximum Rate	9	Total Slurry Mud Spacer 106.0 20				Spacer 20.0	í.	N2			
		Treating P	ressure Summary,	psi						Breakdov	wn Fluid					
Maximum Final		nal Average Bu		Bump Plug to	Breakdov	ND	Type Volume Densit				Density					
		0		800							bbl		lb/gal	lb/gal		
Avg. N2 Percen	t	Designed	Slurry Volume	Displacement		Mix Wat	ter Temp	Ceme	nt Circulat	culated to Surface?		Vo	Volume 30.0 bbl			
%			106.0 bbl	57.0 b	57.0 bbl		70 degF	70 degF Washed Thru I		erfs 🔲		To	To ft			
Customer or Authorized Representative		Schlumberger	Schlumberger Supervisor juan sapp			Circulation Lost			Jol	b Completed	x					
		juan sapp														

	IA DI	/			PROJECT NUMBER DIC			09/09/13				
COUNTY State	OB SUMM					CUSTOMER REP				03/03/10		
Kiowa Kansas	Sandridge Explorati			ion			II Tom	lins	on			
LEASE NAME Well No. 1-20	JOB TYPE Kickoff Plu	ıa				John Hall						
EMP NAME												
John Hall 0												
Rocky Anthis												
Joseph Klemm												
Roy Morris												
Form. NameType:			Call	led O) i d	On Location	n	loh	Started	Lloh Co	mpleted	
Packer Type Set At		Date	Can		2013	9/9/20		300	9/9/2013		9/2013	
Bottom Hole Temp. 155 Pressu						4400			4500		700	
Retainer DepthTotal E Tools and Accessorie		Time		900)	1400 Well D)ata		1530	1 7	700	
Type and Size Qty	Make			1	New/Used	Weight		rade	From	To	Max. Allow	
Auto Fill Tube 0	IR	Casing		T	1011/0000	0.0	0		Surface	4,500	5,000	
Insert Float Val 0	IR	Liner										
Centralizers 0	IR	Liner										
Top Plug 0	IR	Tubing					5"					
HEAD 0	IR .	Drill Pip					83/4"		Confess	4.500	0) / (5)	
Limit clamp 0	IR IR	Open F Perfora					874	-	Surface	4,500	Shots/Ft.	
Weld-A 0 Texas Pattern Guide Shoe 0	IR IR	Perfora					-	$\overline{}$				
Cement Basket 0		Perfora			-							
Materials		Hours (On L	ocat	ion	Operating			Descrip	tion of Job		
Mud Type WBM Density	9 Lb/Gal	Date			ours	Date	Hou		Kickoff	Plug		
Disp. Fluid Mud Density Spacer type resh Wate BBL, 10	9.1 Lb/Gal 8.33	9/9	_		3.0	9/9	1.5		-			
Spacer type resh Wate BBL. 10 Spacer type BBL.	0.33		\neg		-							
Acid Type Gal.	%		\dashv				-					
Acid Type Gal.	%											
Surfactant Gal.	In											
NE Agent Gal.	-in		_						-			
Fluid Loss Gal/Lb	-In	<u> </u>	\dashv					-				
Gelling Agent Gal/Lb Fric. Red Gal/Lb	In		-				 	\dashv				
MISC. Gal/Lb	In	Total		- 3	3.0	Total	1.5		28			
	-"-	Total				, 5.1						
Perfpac BallsQty.							essures					
Other		MAX		200	PSI	AVG. Average	Dotoo in	BDI	NA			
Other		MAX		5 F	вРМ	AVEIAGE	rates in	DE	IVI.			
Other		IVII OC		0.1	3. 111		t Left in	Pipe				
Other		Feet		N	i/a	Reason	SHOE	JOI	VTTV			
	-			nt Da	ata				1			
Stage Sacks Cement	0.50/ 0.27	Additive	s						W/Rg		Lbs/Gal 17.50	
1 290 Premium H 2 0 0	0.5% C-37								0 0.00		0.00	
3 0 0			_						0 0.00		0.00	
						-						
		Sur	nma									
Preflush Type:	41114	000 001			lush:	BBI		.00	Type:		ater NIZK	
BreakdownMAXIN		DOO PSI			l & Bkdn: ess /Returr			/A /A	Pad:Bb		N/A 67	
Actual	TOC 4	4,000	_		. TOC:	, 50,		000	Actual [Disp.	67.40	
Average Bump	Plug PSI:			Final	1 Circ.	PSI:		_	Disp:Bb		67.40	
ISIP5 Min10 Min	15 Min				ent Slurry:			5.5 5.90				
				lota	I Volume	BBI	120).8U				
								1				
CUSTOMER REPRESENTATI	VE Bill	1/1	11	1/	2							
COSTOMER REPRESENTATI	VE	11.1	J.Y	rl V		SIGNATURE						