# CORRECTION #1

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1159925

Form ACO-1 June 2009 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 North / South Line of Section
City: State: Zip:+	Feet from Cast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ( )	
CONTRACTOR: License #	County
Name:	Lease Name: Well #
	Field Name:
	Producing Formation:
Designets Type of Completion:	Elevation: Cround: Kolly Puebing:
	Tatal Danth
	Amount of Surface Pipe Set and Cemented at: Fee
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Dian
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: ppm Fluid volume: bbls
Conv. to GSW	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled     Permit #:	
Dual Completion Permit #:	
SWD     Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East Wes
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date         Date Reached TD         Completion Date or Recompletion Date	

#### 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						
Letter of Confidentiality Received						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

## CORRECTION #1

1159925

Operator Name:	Lease Name: Well #:
Sec TwpS. R East West	County:

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken	pats)	Yes	No		Lc	g Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog Cores Taken Electric Log Run Electric Log Submitted I	jical Survey	☐ Yes ☐ Yes ☐ Yes ☐ Yes	No No No		Name	2		Тор	Datum
(If no, Submit Copy)	liourormouny								
List All E. Logs Run:									
		_	CASING	RECORD	Ne	w Used			
		Report a	II strings set-c	onductor, sur	face, inte	rmediate, product	ion, etc.		
Purpose of String	Size Hole Drilled	Size C Set (In	asing O.D.)	Weigl Lbs. /	ht Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify Fo	NRECOF	RD - Bridge F Each Interval	Plugs Set/Typ Perforated	e	/	Depth		
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHI	२.	Producing N	/lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ıls.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITIC	ON OF (	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTE	RVAL:
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)	, Comp. 4C <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Sub	omit ACC	)-18.)		Other (Specify)	)					

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Teresia 3509 1-16H
Doc ID	1159925

### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8683-8964	1500 gals 15% HCL, 5630 bbls Fresh Slickwater, Running TLTR 5808 bbls	
5	8326-8628	1500 gals 15% HCL, 5557 bbls Fresh Slickwater, Running TLTR 11503 bbls	
5	7988-8275	1500 gals 15% HCL, 5708 bbls Fresh Slickwater, Running TLTR 17364 bbls	
5	7632-7922	1500 gals 15% HCL, 5523 bbls Fresh Slickwater, Running TLTR 23028 bbls	
5	7308-7585	1500 gals 15% HCL, 5564 bbls Fresh Slickwater, Running TLTR 28713 bbls	
5	6926-7220	1500 gals 15% HCL, 5709 bbls Fresh Slickwater, Running TLTR 34543 bbls	
5	6522-6856	1500 gals 15% HCL, 5474 bbls Fresh Slickwater, Running TLTR 40119 bbls	
5	6234-6526	1500 gals 15% HCL, 5495 bbls Fresh Slickwater, Running TLTR 45707 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Teresia 3509 1-16H
Doc ID	1159925

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5878-6106	1500 gals 15% HCL, 5476 bbls Fresh Slickwater, Running TLTR 51303 bbls	
5	5548-5800	1500 gals 15% HCL, 5374 bbls Fresh Slickwater, Running TLTR 56743 bbls	

express energy syng affining fr P O BOX 843971 TICKET TKT: 8052-27-1 Pg 1 of 1 INV: 171801 FIUNE # (113)020-1400 Fax # (713)625-7403 TICKET NUMBER: 8052-27-1 02/09/2012 TICKET DATE: ELECTRONIC Yard: 8052 OKLAHOMA ELK CITY BATHOLE Lease: Teresa Well#: 1-16 SANDRIDGE ENERGY INC Contractor: Lariate 123 ROBERT S KERR AVE Rig#: 45 OKLAHOMA CITY, OK 73102-6406 Co/St: HARPER, KS Sales Person: EXPRESS ENERGY SERVICES OPERATING LL For questions, please call 713-625-7498. AMOUNT RATE QUANTITY DESCRIPTION 90.00 FT 2/9/2012 Drill a 30" conductor hole (up to 120' depths) 40.000 3,600.00 90.00 FT 2/9/2012 Provide 20" pipe for casing hole (per ft) 80.00 FT 2/9/2012 Drill 20" hole for mouse hole (up to 80' depths) 80.00 FT 25.000 2,000.00 2/9/2012 Provide 16" pipe for hole casing (per ft) 6.00 FT 2/9/2012 Drill 75" hole for cellar (per ft) 750,00 6.00 FT 125.000 2/9/2012 72" diameter tin horn for cellar (per ft) 1.00 HR 2/9/2012 SITE PREPARATION - LOCATION CLEANUP 1.00 EA 2/9/2012 Running Pipe on Deep Main Hole (90' - 120') 1.00 EA 2/9/2012 Running Pipe on Deep Mause Hole ( up to 80') 2,600.00 YD 200.000 13.00 2/9/2012 Cement to grout plpe in hole EA 1.00 2/9/2012 Cement pumping provided by third party 2/9/2012 MOBILIZATION FEE ON TRACK RIG (over 500 miles roundtrip) 1.00 MI 15,000.00 2/9/2012 NON TAXABLE 23,950.00 Sub Total: 563.85 Tax Havyer KS (6.3 %): \$ 24,513.85 TICKET TOTAL: I, the undersigned, advowledge the soceptance of the above listed goods and/or services

Approved Signature

AFE Number: \_ C Well Name: TERESA Code: Amount: Co. Man; Co. Man Sig.: votes: sk

	J(	OB SUMI	MAR	1		PROJECT NOME	2917	TR	CKET DATE	7/28/13	
Harper	State Kansas	dridge Explor	ation & F	rod	luc	CUSTOMER REP	oug Lan	gley	y		
Teresia 3509	Well No. 1-16H	JOB TYPE Surfac	e			EMPLOYEE NAM	John	Hall			
EMP NAME		1 0 001100									
John Hall	1 10			T			T	T			
Rocky Anthis											
Joseph Klemm											
Roy Morris	11										
Form, Name	Type:	na an Calana (Calana)	and a second second								
				Call	ed Out	On Locatio	n J	ob S	started	Job Co	mpleted
Packer Type	Set At	0	Date		7/27/2013	7/28/2	013	7	/28/2013	7/2	8/2013
Bottom Hole Temp.	80 Press	ure			1000				700		
Retainer Depth		Depth 830	Time		1030		) oto		100	1 90	0
Type and Size	Ind Accessorie	Maka			Noulliso	VVeii L	Size Gra	tol	From	To	Max Allow
Auto Fill Tube		IR	Casing	_	Itemose	36#	9%"		Surface	830	1.500
Insert Float Val	- O	IR	Liner					-			
Centralizers	0	İR	Liner					T			
Top Plug	0	IR	Tubing				0				
HEAD	0	IR	Drill Pin	e							
Limit clamp	0	IR	Open H	lole			121/4"		Surface	830	Shots/Ft.
Weld-A	0	IR	Perfora	tions				_			
Texas Pattern Guide Sho	e 0	<u>IR</u>	Perfora	tions			ļ	_			
Cement Basket	<u>toriolo</u>		Perfora	lions	apotion	Onomting	Hours		Deceriptiv	n of Joh	L
Mud Type WBM	Density	9 Ib/Gall	Date		Hours	Date	Hours		Describilit		
Disp. Fluid Fresh Wat	ter Density	8.33 Lb/Gal	7/27		1.0	7/28	2.0		Surrace		
Spacer type resh Wate	BBL. 10	8.33	7/28		8.0						
Spacer type	BBL.							_			
Acid Type	Gal	_%		-				_			
Acid Type	Gal.	- %		$\rightarrow$				-			
NF Agent	Gal	-in		-+				-			
Fluid Loss	Gal/Lb	In		+							
Gelling Agent	Gal/Lb	In					1				
Fric. Red.	Gal/Lb	In									
MISC	Gal/Lb	_In	Total	L	9.0	Total	2.0		and the second second second second		
Derfree Delle						0-					
Other	QIV.		MANY		1 500 PSI		essures				
Other			IVIAA		1,000 - 31	Average	Rates in F	PM			
Other	ne na sere en la selectoriada		MAX		6 BPM	AVG					
Other						Cemen	Left in Pi	pe			
Other			Feet		46	Reason	SHOE JO	DINT	Γ		
			840 TO								
			C	emer	nt Data						
Stage Sacks C	ement		Additive	s			110		W/Rq.	Yield	Lbs/Gal
1 265 FEX Lite Pr	remium Plus 6	6% Gel) 2% Calc	cium Chlor	ide -	Vapps Cello-	Flake5% C-	41P		10.88	1.84	12.70
2 150 Premium	Plus (Class C)	12% Galcium Chic	oride - %pp	s Ce	lio-Flake				6.32	1.32	14.80
3 TOU Premium	Plus (Class C)	-2% Calcium Chi	onde on s	de to	o use ir nece	ssary			-0.32	-1.32	-14.8
									+		
		1	Cur						1	1	1
Profilieb 10	Type	Fre	SUI sh water	nma	Γγ Profluch	BBI	10.0	0	Type	Fresh	Water
Breakdown	MAXIN	лим	1.500 PSI		Load & Bkdn	Gal - BBI	N/A		Pad:Bbl -	Gal	N/A
	Lost R	eturns-N	NO/FULL		Excess /Retu	Im BBI	33		Calc.Disp	Bbl	61
	Actual	TOC	SURFACE	!	Calc. TOC:	DOL	SURFA	CE	_Actual Di	sp.	60.60
Average	Bump	Plug PSI:	1,050		Final Circ.	PSI:	N/A	0	Disp:Bbl		60.60
S WIII,		10 M			Total Volume	A RRI	1926	10			
						5 00(	192.0	1			
	l			-	2						
		$\sqrt{2}$	NK	2	11 -	1					
CUSTOMER REPI	RESENIAI	VE Doug	42	in	fert	SIGNIATURE					
L			l	1	1	GIGINATURE					
					1						

	1				PROJECT NOM	BER	DICKETDATE			
COUNTY	State	COMPANY	MARY	-	SO	K 2942	HOIGET DATE	08/07/	13	
Harper LEASE NAME	Harper Kansas Sandridge Exploration & Production									
Teresia 3509	1-16H	Interme	diate		EMPLOYEE NA	ME				
EMP NAME						Artnur	Setzer			
Armur Setzer	Da	vid Thomas		T			1			
Danny Towall										
Robert Stoneheele				1						
Form Name										
	Iype:									
Packer Type	Set At	3,581'	Date Ca	8/7/2013	On Locatio	on J	ob Started	Job (	Completed	
Retainer Depth	Pressu	re			0/1/20		8///2013		8/7/2013	
Tools	and Accessorie	S	Time	0600	1300		2115		2400	
Type and Size	Qty	Make		New/Lico	VVell [	Data	1			
Auto Fill Tube	0	IR	Casing	1181/036	26#	Size Grad	e From	То	Max. Allow	
Insert Float Val	0	IR	Liner		20#		Surface	5,538	5,000	
Cop Plug	0	IR	Liner							
JEAD	0	IR	Tubina			0	+			
imit olomn	0	IR	Drill Pipe			U				
	0	IR	Open Hole			03/11				
AVas Pattors Quide Ol	0	IR	Perforations	3		074	Surface	5,519'	Shots/Ft	
ement Basket		IR	Perforations	3						
M	ateriale	IR	Perforations	1			<u> </u>			
lud Type WBM	Density	0 11/0-11	Hours On L	ocation	Operating H	lours	Decerin	tion of Life		
isp. Fluid Fresh Wat	ter Density	J LD/Gal	Date	Hours	Date	Hours	1 Descrip	nion of Job		
pacer type resh Wate	BBL 20	833	8/1	11.0	8/7	3.0	Interme	diate		
pacer type Caustic	BBL 10	8.40								
cid Type	Gal.	0.40					1			
cid Type	Gal.	×6					1			
urfactant	Gal.	n								
E Agent	Gal.	n								
uld Loss	Gal/Lb	n								
dia Bod	Gal/LbI	n								
IC. Red.	Gal/Lb I	n								
	Gal/LbI	11	Total	11.0	Total	2.0	Concernance of the second			
erfnac Balle						3.0				
ther	Qty			and the second second second	Proc	CUTOC				
ther			MAX 6	.000 PSI	AVG	1800				
her					Average R	ates in BPI	M			
her			MAX	8 BPM	AVG	5				
her			Frank		Cement L	eft in Pipe				
	State State State		Feet	90	Reason S	HOE JOIN	JT			
age Sacks	maul		Cement	Data						
1 210 50/50 POT	PREMILINA	( Oal 0 101 -	Additives				MIDA	Viala	14.10	
2 100 Pre	mium 14	6 Gel - 0.4% FL-1	7 - 0.2% C-51 -	0.1% C-20 - 0	0.1% C-37 - 0.8	% C-41P	677	Tield	Lbs/Gal	
3 0	0	+/0 FL-1/ - 0.1% (	C-51 - 0.1% C-2	20 - 0.4% C-4	1P		5 20	1 44	13.60	
							0 0.00	0.00	10.00	
		When the second s					0.00	0.00	0.00	
			Current					++		
flush 10	Type:	Cau	Summary	ofluch						
akuown	MAXIMUN	1 5.0	00 PSI	and & Diversion	RRI C	30.00	Type: 1	Oppg Baril	e Spacer	
	Lost Retur	ns-N NC	DIFULL FY	Cess /Roturn	Gal-BBI	N/A	Pad:Bbl -0	Gal	N/A	
rade	Actual TO	С	Ca	Ic. TOC.		N/A	Calc.Disp	Bbl	208	
5 Min	Bump Plu	IPSI:	Fir	al Circ.	PSI:	1,300	Actual Dis	sp. 2	08.00	
	10 Min	15 Min_	Ce	ment Slurry:	вві Г	/4.0		2	08.00	
			To	tal Volume	BBI	312.00				
	CENTATIVE		>	0						
		>								
	5				SIGNATURE					

Directional Survey	Measured Depth	Sub-Sea Incl.	Vertical Azim.	True Vert Depth	Northings (+) Southings (-)	Eastings (+) Westings (-)	Vert Section	DLS deg/100'	ENI	F01 1	<b>E</b> \A/I	
SHI	(11)	(deg)	(11)	(11)	(11)		(11)	(deg)	3081			FEL 663
BHI	9031	90.70	0.00	4763 30	4529 53	-34 73	4529.66	0.00	-1448	4729	4676	661
Miss Entry	5036	75.25	358.28	4791.43	538.07	3.11	538.03	8.09	2543	737	4648	656
Top Perf	5558	87.75	358.38	4826.05	1057.84	-12.13	1057.91	1.63	2024	1257	4642	667
Bottom Perf	8992	90.70	0.70	4763.78	4490.53	-35,21	4490.67	0.44	-1409	4690	4675	662
			Х	Y							m	
Survey Points	NW Corne	r XY Coord	2055555	123981			Х	Y	North I	ine slope	0.0024413	
	SW Corne	r XY Coord	2055609	120704		Surface XY	2060242	120911	East l	ine slope	-0.0082292	
	NE Corne	r XY Coord	2060880	123994					South	ine slope	0.0016988	
	SE COMB		2000907	120713					vest	Ine slope	-0.0104705	
I	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DIS				
	Depth	Incl.	Azim	Depth	Southings (-)	Westings (-)	Section	deg/100'				
	(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
	0	0.0	0	0	0	0	0	0	3081	199	4636	663
	1143	0.90	116.10	1142.95	-4.0	8.1	-4.01	0.08	3085	195	4644	655
	1418	1.30	120.40	1417.90	-6.5	12.7	-6.58	0.15	3088	193	4649	651
	1876	1.00	109.90	1875.81	-10.5	20.9	-10.63	0.08	3092	189	4657	643
	2350	0.90	119.60	2349.74	-13.7	28.1	-13.93	0.04	3095	185	4664	635
	2825	0.20	153.90	2824.72	-16.3	31.7	-16.55	0.16	3098	183	4668	632
	3299	0.30	312.00	3298.72	-16.2	31.1	-16.46	0.10	3098	183	4667	632
	3584	0.70	9.70	3583 71	-14.4	30.8	-14.04	0.25	3090	105	4007	633
	3615	0.80	7.20	3614 70	-13.4	31.0	-13.67	0.20	3095	186	4667	633
	3647	0.80	2.50	3646.70	-13.0	31.0	-13.22	0.00	3094	186	4667	632
	3679	1.20	354.30	3678.70	-12.4	31.0	-12.67	1.33	3094	187	4667	632
	3710	3.10	345.40	3709.67	-11.3	30.8	-11.53	6.21	3093	188	4667	633
	3773	3.70	351.90	3772.56	-7.6	30.0	-7.86	1.13	3089	191	4666	633
	3868	2.80	353.50	3867.41	-2.3	29,3	-2.51	0.95	3084	197	4666	634
	3963	2.80	356.70	3962.30	2.3	29.0	2.11	0.17	3079	201	4665	634
	4058	2.50	355.80	4057.19	6.7	28.7	6.50	0.32	3075	206	4665	635
	4090	2.70	357.60	4089.16	8.2	28.6	7.95	0.68	3073	207	4665	635
	4121	4.30	1.50	4120.10	10.1	28.6	9.84	5.22	3071	209	4665	635
	4153	6.50	1.50	4151.96	13.1	28.7	12.85	6.88	3068	212	4665	635
	4105	10.60	353.00	4103.00	17.3	20.5	17.08	6.26	3064	216	4005	635
	4210	12 20	352.00	4214.24	22.5	20.0	22.20	5.07	3059	222	4000	636
	4279	15.00	354.00	4275.73	36.0	26.4	35 78	9.16	3046	235	4663	637
	4311	17.20	356.00	4306.47	44.8	25.6	44.62	7.09	3037	244	4663	637
	4343	19.10	356,60	4336.88	54.8	25.0	54.57	5.97	3027	254	4662	638
	4374	21.10	355.40	4365.99	65.4	24.2	65.21	6.59	3016	264	4662	639
	4406	23.80	354.40	4395.56	77.6	23.1	77.39	8.52	3004	277	4661	640
	4438	26.70	354.10	4424.50	91.2	21.7	90.98	9.07	2990	290	4660	641
	4469	29.00	354.60	4451.91	105.6	20.3	105.40	7.46	2976	305	4658	642
	4501	31.10	354.20	4479.61	121.5	18.8	121.36	6.59	2960	321	4657	644
	4533	33.00	354.10	4506.73	138.4	17.0	138.27	5.94	2943	338	4656	645
Top of Tangent	4504	38.10	356.00	4552.52	100.0	13.4	155.69	8.80	2926	355	4654	647
@ 5197'	4627	40.50	357 10	4581.90	194.6	10.0	194.00	8.06	2887	304	4652	640
0	4659	43.50	357.60	4605.68	216.0	11.7	215.86	9.43	2866	415	4652	650
	4691	46.50	357.90	4628.30	238.6	10.8	238.47	9.40	2843	438	4651	651
	4722	49.20	357.40	4649.10	261.5	9.9	261.44	8.79	2820	461	4651	651
Btm of Tangent	4754	52.30	357.00	4669.35	286.3	8.7	286.20	9.74	2795	485	4650	652
@ 5425'	4786	54.70	358.20	4688.38	312.0	7.6	311.91	8.08	2769	511	4649	653
	4817	56.90	1.10	4705.80	337.6	7.5	337.54	10.50	2744	537	4649	653
	4849	59,90	0.10	4/22.5/	364.9	1.1	364.79	9.75	2/17	564	4650	653
	4001	66.50	358 50	4751.00	421.0	7.0	392.90	9.93	2688	592	4650	653
	4944	69.00	358 20	4763 20	450.6	6.2	420.55	7.86	2631	650	4650	653
	4976	71.50	357.60	4774.01	480.7	5.1	480.64	8.01	2601	680	4649	654
	5007	72.80	358.10	4783.52	510.2	4.0	510.14	4.47	2571	709	4649	655
	5039	75.50	358.30	4792.25	541.0	3.0	540.91	8.46	2540	740	4648	656
	5070	78.60	358.70	4799.20	571.2	2.2	571.11	10.08	2510	770	4648	656
	5102	82.10	358.50	4804.56	602.7	1.5	602.65	10.96	2479	802	4648	657
	5134	85.00	358.40	4808.16	634.5	0.6	634.44	9.07	2447	834	4647	658
	5165	86.70	358.40	4810.40	665.4	-0.3	665.35	5.48	2416	865	4647	658
	5197	89.10	358.10	4011.57	697.3	-1.2	697.32	7.56	2384	896	4647	659
	5260	88.40	358 20	4011.91	760.2	-2.3	729.31	1.90	2352	928	4046	660
	5292	88 10	358 80	4813 40	792 3	-3.2	792.28	2 10	2021	909	4040	661
	5324	87.90	358.10	4814.52	824.2	-4.9	824 26	2.10	2257	1023	4645	662
	5355	87.60	358.00	4815.73	855.2	-6.0	855.22	1.02	2226	1054	4645	662
	5387	87.30	358.20	4817.16	887.2	-7.1	887.18	1.13	2194	1086	4644	663
	5419	86.90	358.00	4818.78	919.1	-8.1	919.13	1.40	2162	1118	4643	664
_	5450	86.70	358.20	4820.51	950.0	-9.1	950.08	0.91	2131	1149	4643	665
	5489	86.60	358.50	4822.79	989.0	-10.3	989.00	0.81	2092	1188	4642	665
	5549	87.40	358.30	4825.93	1048.8	-11.9	1048.91	1.38	2033	1248	4642	667
	5644	91.10	359.10	4827.17	1143.8	-14.1	1143.87	3.99	1938	1343	4641	668
	5739	92.00	358.60	4824.60	1238.7	-16.0	1238.83	1.08	1843	1438	4641	669

Manaura	0.4 0. 1	Madiant	True Mart	Al	E	14.1	DI O I				
Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS				
Depth	Incl.	Azım.	Depth	Southings (-)	Westings (-)	Section	deg/100'				
(ft)	(deg)	(11)	(fl)	(fi)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
5831	92,50	359.00	4820,99	1330.7	-17.9	1330.75	0.70	1751	1530	4640	670
5923	91.20	359.40	4818.02	1422.6	-19.2	1422.70	1.48	1659	1622	4641	671
6014	90.60	359.20	4816.59	1513.6	-20.3	1513.69	0.70	1568	1713	4641	671
6106	91.00	359.50	4815.30	1605.6	-21.4	1605.68	0.54	1476	1805	4642	672
6197	91.70	359.70	4813.16	1696.5	-22.0	1696.66	0.80	1385	1896	4642	671
6288	90.90	0.60	4811.10	1787.5	-21.8	1787.63	1.32	1294	1987	4644	670
6380	91.40	0.10	4809.25	1879.5	-21.2	1879.60	0.77	1202	2079	4646	669
6471	92.30	0.30	4806.31	1970.4	-20.9	1970.55	1.01	1111	2170	4648	668
6563	91.10	0.80	4803.58	2062.4	-20.0	2062.49	1.41	1019	2262	4650	666
6655	90.50	1.70	4802.30	2154.4	-18.0	2154.44	1.18	927	2354	4654	664
6747	91.10	1.70	4801.01	2246,3	-15.2	2246.37	0.65	835	2445	4658	660
6838	89.70	1.30	4800.38	2337.3	-12.9	2337.31	1.60	744	2536	4662	657
6930	90.40	0.10	4800.30	2429.3	-11.7	2429.29	1.51	652	2628	4665	655
7021	90.30	359.40	4799.74	2520.3	-12.1	2520.29	0.78	561	2719	4666	655
7113	90.60	358.30	4799.02	2612.3	-14.0	2612.28	1.24	469	2811	4665	656
7204	91.20	358.40	4797.59	2703.2	-16.6	2703.25	0.67	378	2902	4664	658
7296	91.80	358.00	4795.18	2795.1	-19.5	2795.19	0.78	286	2994	4663	660
7387	91.60	359.30	4792.48	2886,1	-21.6	2886.14	1.45	195	3085	4662	661
7479	91.20	359.50	4790.23	2978.0	-22.6	2978.11	0.49	103	3177	4663	661
7571	91.70	359.50	4787.91	3070.0	-23.4	3070.08	0.54	11	3269	4664	661
7665	91.00	359.60	4785.69	3164.0	-24.1	3164.06	0.75	-83	3363	4664	661
7760	89.40	359.50	4785.36	3259.0	-24.9	3259.06	1.69	-178	3458	4665	661
7855	90.00	359.80	4785.86	3354.0	-25.5	3354.05	0.71	-273	3553	4666	661
7950	90.30	359.70	4785.61	3449.0	-25,9	3449.05	0.33	-368	3648	4667	661
8045	90.40	359.10	4785.03	3544.0	-26.9	3544.05	0.64	-463	3743	4668	661
8140	90.60	358.60	4784.20	3638.9	-28.8	3639.04	0.57	-558	3838	4668	662
8235	91.90	358.40	4782.13	3733.9	-31.3	3734.00	1.39	-653	3933	4667	664
8330	91.60	358.90	4779.23	3828.8	-33.5	3828.95	0.61	-747	4028	4666	665
8425	91.50	359.20	4776.66	3923.8	-35.1	3923.91	0.33	-842	4123	4666	666
8520	91.80	358,60	4773.92	4018.7	-36.9	4018.87	0.71	-937	4218	4666	667
8615	91.50	359.10	4771.19	4114	-39	4113.82	0.61	-1032	4313	4665	668
8710	91.30	0.20	4768.86	4209	-39	4208.79	1.18	-1127	4408	4666	668
8805	91.20	1.00	4766.79	4304	-38	4303.75	0.85	-1222	4503	4669	666
8900	90.90	1.10	4765.05	4399	-37	4398.70	0.33	-1317	4598	4672	664
8984	90.70	0.70	4763.88	4483	-35	4482.67	0.53	-1401	4682	4675	662
9033	90.70	0.70	4763,28	4532	-35	4531.66	0.00	-1450	4731	4676	661

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/3/2013
Job End Date:	9/5/2013
State:	Kansas
County:	Harper
API Number:	15-077-21797-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Teresia 3509 1-16H
Longitude:	-98.29370000
Latitude:	36.99850000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,763
Total Base Water Volume (gal):	2,359,364
Total Base Non Water Volume:	0





Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
Ingredients shown abo	ve are subject to 29 CF	R 1910.1200(i) and ap	pear on Material Safety Data She	ets (MSDS). Ingredie	nts shown below are	Non-MSDS.	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00764		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00237		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			2-propenamid	79-06-1	0.00140	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer,				
		Scale Inhibitor, Surfactant , Acid, Iron Control Agent,				
		Propping Agent	Crystelling cilico	14808 60 7	06 91097	
UCL 15 Slipkwator	Coblumborgor	Correction Inhibitor		14000-00-7	90.01907	
HOL 13, SHOKWALEI	Schumberger	Scale Inhibitor, Scale Inhibitor, Surfactant, Acid, Iron Control Agent, Propping Agent				
			Sorbitan monooleate	1338-43-8	0.03120	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Thiourea, polymer with formaldehyde and 1- phenylethanone	68527-49-1	0.00508	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Fatty acids, tall-oil	61790-12-3	0.00618	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00541	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Prop-2-yn-1-ol	107-19-7	0.00158	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Propan-2-ol	67-63-0	0.00108	

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	Water (Including Mix Water	NA		
			Supplied by Client)*			
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Alkenes, C>10 a-	64743-02-8	0.00105	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Ethanol, 2,2',2"-nitrilotris-, 1,1',1"-tris(dihydrogen phosphate), sodium salt	68171-29-9	0.07124	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00624	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	Trisodium ortho phosphate	7601-54-9	0.03131	
HCL 15 Slickwater	Schlumberger	Corrosion Inhibitor		1001-34-9	0.03131	
HOL 13, OlickWater	Contamperger	Friction Reducer, Scale Inhibitor, Surfactant, Acid, Iron Control Agent, Propping Agent				
			Polyethylene glycol monohexyl	31726-34-8	0.12334	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	Potassium hydrovido	1210-58-2	0.00025	
			Fotassium nyuroxide	1310-30-3	0.00025	

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Sodium erythorbate	6381-77-7	0.01597	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00468	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Acrylamide/ammonium acrylate	26100-47-0	0.24960	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent		407.04.4	0.00001	
			Ethane-1,2-diol	107-21-1	0.00891	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	Alashola C12 C14 sthewdated	69420 50 0	0.00468	
	_		Alconois, C12-C14, ethoxylated	08439-50-9	0.00468	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Sodium sulfocyanate	540-72-7	0.00811	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent		0,4400,50,0		
			C14 alpha olefin ethoxylate	84133-50-6	0.00468	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	Ethoxylated oleic acid	9004-96-0	0.03120	
1				P00	0.03120	

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	American shire isla	10105.00.0	0.45000	
			Ammonium chioride	12125-02-9	0.15600	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Methanol	67-56-1	0.00841	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Distillates (petroleum), hydrotreated light	64742-47-8	0.32760	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent				
			Hydrogen chloride	7647-01-0	2.05389	
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent	Sorbitol Tetraoleate	61723-83-9	0.00936	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water \*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



### Summary of Changes

Lease Name and Number: Teresia 3509 1-16H API/Permit #: 15-077-21797-00-00 Doc ID: 1159925 Correction Number: 1 Approved By: NAOMI JAMES

Field Name Previous Value New Value API 15-077-21797-01-00 15-077-21797-00-00 Amount of Surface Pipe 830 0000 Set and Cemented at **Approved Date** 10/24/2012 10/01/2013 CasingAdd\_Type\_PctP (6% gel) 2% Calcium Chloride, 1/4 pps Cello-DF\_2 Flake, .5% C-41P CasingAdd\_Type\_PctP 4% gel, .4% FL-17, .2% DF 3 C-51, .1% C-20, .1% C-37, .5% C-41P CasingNumbSacksUse 515 dPDF 2 310 CasingNumbSacksUse dPDF\_3 CasingPurposeOfString Surface PDF 2 CasingPurposeOfString Intermediate PDF 3 CasingSettingDepthPD 830 F\_2

Field Name	Previous Value	New Value
CasingSettingDepthPD F_3		5538
CasingSizeCasingSetP DF_2		9.63
CasingSizeCasingSetP DF_3		7
CasingSizeHoleDrilledP DF_2		12.25
CasingSizeHoleDrilledP DF_3		8.75
CasingTypeOfCementP DF_2		O-Tex Lite Premium Plus 65/ Premium Plus (Class C)
CasingTypeOfCementP DF_3		50/50 Poz Premium/ Premium
CasingWeightPDF_2		36
CasingWeightPDF_3		26
Completion Or Recompletion Date	2/20/2012	9/8/2013
Date Reached TD	2/20/2012	8/11/2013
Date of First or Resumed Production or		9/20/2013
Electric Log Run?	No	Yes

Field Name	Previous Value	New Value	
Electric Log Submitted Electronically?		Yes	
Elogs_PDF			
Kelly Bushing Elevation	0000	Boresight Prizm Log 1251	
Lease Name	Teresia	Teresia 3509	
LocationInfoLink	https://solar.kgs.ku.edu/ kcc/detail/locationInform	https://solar.kgs.ku.edu/ kcc/detail/locationInform	
Number of Feet East or West From Section Line	660	666	
Perf_Depth_1		Attached	
Perf_Material_1		Attached	
Perf_Record_1		Attached	
Perf_Shots_1		Attached	
Producing Formation	na	Mississippian	
Producing Method Pumping	No	Yes	
Quarter Call 3	S2	SW	

Field Name	Previous Value	New Value	
Quarter Call 4 - Smallest	S2	SE	
Save Link	//kcc/detail/operatorE ditDetail.cfm?docID=10 96782	//kcc/detail/operatorE ditDetail.cfm?docID=11 59925	
Spud Or Recompletion Date	2/20/2012	2/9/2012	
Temporarily Abandoned	Yes	No	
TopsDepth1		3578	
TopsDepth2		3915	
TopsDepth3		4200	
TopsDepth4		4507	
TopsDepth5		4615	
TopsDepth6		4638	
TopsDepth7		4792	
TopsName1	na	Base Heebner	
TopsName2		Lansing	

Field Name	Previous Value	New Value
TopsName3		Cottage Grove
TopsName4		Oswego Limestone
TopsName5		Cherokee Group
TopsName6		Verdigris Limestone
TopsName7		Mississippi Unconformity
Total Depth	0000	9033
Well Type	DH	GAS

### Summary of Attachments

Lease Name and Number: Teresia 3509 1-16H API: 15-077-21797-00-00 Doc ID: 1159925 Correction Number: 1 Attachment Name

**Cement Reports** 

**Directional Survey** 

FracFocus Disclosure

As Drilled Plat