Confidentiality Requested: Yes No

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

1142878

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)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
	Field Name: Producing Formation:		
	Elevation: Ground: Kelly Bushing:		
Gas D&A ENHR SIGW			
GG GSW Temp. Abd.			
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used?		
	If yes, show depth set: Feet		
If Workover/Re-entry: Old Well Info as follows:			
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		
Dual Completion Permit #:	Dewatering method used:		
SWD Permit #:	Location of fluid disposal if hauled offsite:		
ENHR Permit #:	Location of huid disposa in natied offsite.		
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	
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 Sh	eets)	Yes No		-	n (Top), Depth an		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
				ew Used			
		Report all strings set-o	conductor, surface, inte	ermediate, 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	CEMENTING / SQU	JEEZE RECORD	·	·	
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							

Did you perform a hydraulic fracturing treatment on this well?	Yes	No
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes	No
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes	No

(If No, skip questions 2 and 3) (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				Acid, Fracture, Shot, Ce (Amount and Kind	ement Squeeze Record I of Material Used)	Depth			
TUBING RECORD:	Siz	e:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed	l Producti	on, SWD or ENHF	ł.	Producing M	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF G	iAS:							PRODUCTION INTER	IVAL:
Vented Solo (If vented, Su		Jsed on Lease - <i>18.)</i>		Open Hole Other <i>(Specify)</i>	Perf.	Uually (Submit)	,	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brad 3508 4-12H
Doc ID	1142878

All Electric Logs Run

Prizm Log	
Boresight	
Nuclear	
Resistivity	
Mud Log	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brad 3508 4-12H
Doc ID	1142878

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8904-9176	1500 gals 15% HCL Acid, 6565 bbls los pH Fresh Slickwater, Running TLTR 6744 bbls	
5	8606-8850	1500 gals 15% HCL Acid, 4337 bbls los pH Fresh Slickwater, Running TLTR 11154 bbls	
5	8265-8513	1500 gals 15% HCL Acid, 4329 bbls los pH Fresh Slickwater, Running TLTR 15643 bbls	
5	7766-8142	1500 gals 15% HCL Acid, 4310 bbls los pH Fresh Slickwater, Running TLTR 20092 bbls	
5	7448-7690	1500 gals 15% HCL Acid, 4407 bbls los pH Fresh Slickwater, Running TLTR 24623 bbls	
5	7044-7384	1500 gals 15% HCL Acid, 4170 bbls los pH Fresh Slickwater, Running TLTR 28901 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brad 3508 4-12H
Doc ID	1142878

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6727-6979	1500 gals 15% HCL Acid, 4430 bbls los pH Fresh Slickwater, Running TLTR 33397 bbls	
5	6350-6676	1500 gals 15% HCL Acid, 4069 bbls los pH Fresh Slickwater, Running TLTR 37566 bbls	
5	5946-6291	1500 gals 15% HCL Acid, 4108 bbls los pH Fresh Slickwater, Running TLTR 41786 bbls	
5	5528-5832	1500 gals 15% HCL Acid, 4025 bbls los pH Fresh Slickwater, Running TLTR 45811 bbls	

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

May 29, 2013

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

Re: ACO1 API 15-077-21923-01-00 Brad 3508 4-12H NE/4 Sec.12-35S-08W 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, Tiffany Golay



BASIN SERVICES, LLC P O BOX 4268 ABILENE, TX 79608-4268 Phone # (325)690-0053 Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-2-1 TICKET DATE: 04/24/2013

YARD:WY WAYNOKA OKSANDRIDGE ENERGYLEASE:Taylor123 ROBERT S KERR AVEWELL#:3406 3-29HOKLAHOMA CITY, OK 73102-6406RIG #:Unit 310Co/St:HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
4/24/2013 DRILLED 30" CONDUCTOR HOLE	Gorantin	10112	74400111
4/24/2013 20" CONDUCTOR PIPE (.250 WALL)			
4/24/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
4/24/2013 DRILL & INC FALL 6' COS' CELLAR TINHORN			
4/24/2013 DRILLED 20 MOUSE HOLE (PER FOOT)			
4/24/2013 16" CONDUCTOR PIPE (.250 WALL)			
4/24/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
4/24/2013 WELDING SERVICES FOR PIPE & LIDS			
4/24/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING			
CONCRETE			
4/24/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR			
MOUSEHOLE PIPE)			
4/24/2013 11 YARDS & SACK GROUT			
4/24/2013 TAXABLE IT EMS			9,850.00
4/24/2013 BID + TAX LE ITEMS			6,400.00
			0,400.00
Sub To	otal:		16,250.00
Tax HARPER COUNTY (6.3	%):		620.55
I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.			\$ 16,870.55
	57 MIL408274354		÷ .0,010.00

Approved Signature

DC, 12936
AFE Number: DU 3-29H
Well Name: Taylor 3406 3-29H
Code: 850, 616
R1(870 35
Co. Man: Chance IIIal Coll. Man.
Co. Man Sig.: MI
Notes:

RECEIVED

MAY 2 0 2013

HALLIBURTON

REGULATORY DEPT. Cementing Job Summary

					Th	e Road t	o Ex	xcel	lence S	Starts	Rwin	th Saf	iety							
Sold To #:	3050	21		Ship	To #	*: 29980	67		Q	uote	#:				9	Sales	Order	#: 900)437	7377
Customer:	SAN	DRIDG	E ENE	RGYI	NC E	BUSINE	SS		Cı	uston	ner	Rep:	Web	ster, .	ohn					
Well Name	: Tav	lor 340	6			M	lell #	#: 3-	-29H					AF	WU/I	#:				
Field:				v (SA	P): A	NTHON	(Co	ounty/P	arish	: Ha	arper			0	State	: Kansa	as		
Legal Desc	crinti	on: Sec							-					-						
Contractor				1011	ion ip	Rig/Plat				im:	310					1.0				
Job Purpo			Surfac	A (26	na	itigh iai					010									
Well Type:				e Gas	ng	Job Typ	0.0	om	ont Sur	face (20	ina								
						Srvc Su								MDII	DEm	in #•	51895	0		
Sales Pers	on: r	RENC	H, JER			Srvc Su	per		b Perso			AIVIES				<u>р</u> ж.	51055	<u> </u>		
	N.		Even Line	E		HES	Ema			Exp H		Emp	#	LIE	S Em	n Na	mo	Ехр Н	ne	Emp #
HES Em			Exp Hrs 8	Em 4548		OSBORI				8	115	51895		PROV				8		523867
GUYTON, Patrick	JAWE	5	0	4040	80	David	ч, JA		5	0		51050		Wesle			_1\			520001
TURNER,	DANIE	=1	8	4618	12	Davia					-								+	
Justin			•																	
								E	quipm	ent										
HES Unit #	Dis	stance-	1 way	HES	Jnit #	# Dista	nce	-1 wa	ay H	IES U	nit #	t Di	stand	ce-1 w	ay 🛛	HES	Unit #	Dista	ince	e-1 way
									Job Hou	urs										
Date	On	Locati	on O	peratir	a	Date			Locatio		Ope	rating		Da	te	On	Locati	on	Ope	erating
		Hours		Hours	3				Hours			ours					Hours		H	ours
5/14/2013		8		1																
TOTAL									Tota	al is the	e su	m of e	ach d	column						
				Job											Job	Time	es			
Formation N	lame				-										Date		Tim	e		e Zone
Formation D	epth	(MD) T	op			Botto	m			Ca	lled	Out			May - 2		04:0			CST
Form Type				E	BHST	•						cation			/lay - 2		08:0			CST
Job depth M	D		680. ft			epth TVD			680. ft	-		tarted			/lay - 2		00:0			CST
Water Depth				N	Vk Ht	t Above F	loor		16. ft			omple			/lay - 2		02:0			CST
Perforation	Depth	(MD) F	rom			То					par	ted Lo	C	14 - 1	/lay - 2	2013	00:0	0		CST
									Nell Da										··	
Descripti	on	New /	Ma	K 5	ize	ID	Wei			Threa	ad		Gr	ade	Тор	· · · · · · · · · · · · · · · · · · ·	Botton		- A.	Bottom
		Used	press	1	in	in	Ibm	n/ft							ft		MD	TVI		TVD
10.050.0		6	psi	9		10.05									00		ft 700.	ft	-	ft
12.25" Open 9.625" Surfa		Linknow	v 115		625	12.25 8.921	36	2		LTC			1	-55	80	·	700.		+	
Casing	ce	Unknov n	v 115	0 9	020	0.921	30	J .		LIU	,			-55	•		700.			
Preset Cond	uctor	Unknow	v		20.	19.124	94	4.									80.			
		n							1.0											
				-	-		1		nd Acc		-			-		0		01.		Maka
Туре	Size	Qty	Make	Dept		Туре	Siz	ze	Qty	Mak	e	Depth		Тур	8		ize	Qty	+	Make
Guide Shoe						cker								Plug		9.	625	1	-+	hes
Float Shoe						dge Plug								ttom P R plug		+			+	
Float Collar					Rei	tainer								g Con		0	625	1	-+	hes
Insert Float											+			ntralize		3.	025	<u> </u>	+	1163
Stage Tool		اا				n	lice		neous	Mate	rial	2	Cel	iti dil Ze	13	1				
Colling Ast			Cor	10		Surfac			neous		Conc		1Ac	id Typ		-	Qty		Cr	onc %
Gelling Agt Treatment Fl	4		Cor			Inhibit					cond			nd Typ			Size		Qt	
reaunem Fi	u	1	001	10		printing			I		one		150		<u> </u>		0120	<u> </u>	1-19.6	

		Flui	d Data						
Sta	age/Plug #: 1								
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	the second second	Total Mix Fluid Gal/sk

HALLIBURTON

Cementing Job Summary

1	Fresh V	/ater								10.00	bbl	8.33	.0		.0	.0		
2	HLC		EXTE	NDAC	EM (T	M) S'	YSTEM	(452	.981)	220.0	sacks	12.4	2.11		11.61			11.61
	STANDA	RD																
	3 %		CALC	IUM C	HLOR	IDE,	PELLET	, 50	LB (10	01509387)							
	0.25 lbr	n	POLY	-E-FLA	AKE (1	0121	6940)											
	11.609 0	ial	FRES	H WA	TER													
3	STAND	ARD	SWIF	FCEM	(TM) \$	SYST	EM (452	2990)	150.0	sacks	15.6	1.2		5.32			5.32
	2 %		CALC	IUM CI	HLOR	IDE, I	PELLET	, 50	LB (10	01509387)							
	0.125 lbm POLY-E-FLAKE (101216940)																	
	5.319 Gal FRESH WATER																	
4	Displace	ement									bbl	8.33	.0		.0	.0		
C	alculated	Values	\$		Pres	sure	s						Volume	S				
Displa	acement	49.	5 Sh					Lo	ost Re	turns	0	Cement	Slurry		115	Pad		
Тор С	Of Cement	surfa	ice 51	Min				C	ement	Returns	50	Actual	Displacer	nent	49	Treat	ment	
Frac (Gradient		15	Min				S	pacers	\$		Load ar	nd Breakd	lown		Total	Job	
								-	R	ates								
Circu	ulating			M	lixing					Displac	ement				Avg. Jo	b		
	nent Left I		Amou	nt 4	2ft	Reas	on Sho	be Jo	C.Y.M.									
Frac	Ring # 1 (0	ID	Frac	c ring	#2@	2	ID		Frac Ring			ID	Frac	Ring	#4@		ID
T	he Inforr	nation	State	d Her	rein I	s Co	orrect	C	Custom	er Represe	entative &	ignature	B					

RECEIVED

JUN 4 2013

Cementing Job Summary

REGULATORY DEPT

					7	The Road	to Ex	cel	lence	Star	ts wi	th Safe	ety						
Sold To #:	3050	21		Sh	nip To	#: 29980	67		C	Quot	e #:				Sale	s Ord	er #:	9004	39507
Customer	: SAN	DRIDG	SE ENE	ERG	Y INC	EBUSINE	SS		C	Cust	omer	Rep: V	Vet	ster, Joh	in				
Well Name	: Tav	lor 340	6			V	Vell #	: 3-	-29H					API/L	JWI #:				
Field:	····)			tv (S	SAP):	ANTHON	Y	Co	ounty/	Paris	sh: H	arper			State	: Kar	isas	1	
Legal Des	cripti	on: Se		<u> </u>				_							1				
Contracto						Rig/Pla				um:	310)							
Job Purpo			Interm	nedia	te Ca											÷	С.		
Well Type:						Job Ty	be: C	em	ent Int	erme	ediate	e Casin	q						
Sales Pers					Y	Srvc Si								MBU ID	Emp #	478	229		
ourco i ore		112110						_	b Pers										
HES En	no Nai	me	Exp Hr	s E	mp#	HES	Emp				o Hrs	Emp	#	HES	Emp Na	ame	E	kp Hrs	Emp #
CRAWFO			9.5		0612					9.		489420		WALTON	I, SCOT	TY		9.5	478229
ANDREW						Daniel			4 92					Dwayne					
									quipn						.				
HES Unit #	# Dis	stance-	1 way	HE	S Uni	t# Dista	ince-'	1 wa	ay	HES	Unit	# Dis	tan	ce-1 way	HES	Unit #	1 1	Distan	ce-1 way
	_	_													L				
						5 N2 No.		J	lob Ho	ours									
Date	On	Locati Hours	on O	pera Hou	-	Date			Locati Hours	ion		erating lours		Date	0	n Loca Hou			perating Hours
5-19-13		9.5		2															
TOTAL									Tot	tal is	the si	um of ea	ich (column se					
				Jo	b										ob Tim				
Formation N														Da			ime	Ti	ne Zone
Formation D)epth	(MD) T	ор		- 1	Botto	om [-				dOut		18 - May		_	00:00		CST
Form Type					BHS			-				ocation		19 - May			0:00		CST CST
Job depth N		:	5380. ft			Depth TVD						tarted		19 - May 19 - May			5:44 7:40		CST
Water Depth		(845)			VVK	Ht Above F	loor				_	omplet		19 - May			9:30		CST
Perforation	Depth	(MD) F	rom			То			Vell D		Depai	ted Loc		19 - Maj	- 2013	0.	9.00		001
Descripti		Now (Ma		Size	e ID	Weig		ven D		read	T	G	ade T	op MD	Bott	om	Тор	Bottom
Descripti	on	New / Used	1	1	in	in	Ibm			110	eau		Gi	aue	ft	M	2000 N 100	TVD	TVD
		0300	prese				10111									ft		ft	ft
8.75" Open I	lole			3		8.75									700.	538	0.		
7" Intermedia		Unknow	v		7.	6.276	26.			Ľ	ТС		P-	110	•	538	0.		
Casing		<u>n</u>			0.00	5 0.004	00									700	_		
9.625" Surfa Casing	ce	Unknow	v		9.62	5 8.921	36.			L	ГС		J-	55	•	700	J.		
Casing		n	1				Tool	6 21	nd Ac	race	orios			L		L			
Туре	Size	Qty	Make	De	nth	Туре	Siz	-	Qty	-		Depth	1	Туре		Size	1	Qty	Make
Guide Shoe	OILC	dey	mano	00		Packer		-	40	-		Boptii	Tor	Plug			1	4.5	
Float Shoe						Bridge Plug	1			1				tom Plug			1		
Float Collar						Retainer		1						R plug se					
Insert Float														g Contair	ner				
Stage Tool													Cer	ntralizers					
								ella	neous	Mat									1
Gelling Agt			Co			Surfac					Con			id Type		Q			onc %
Treatment FI	d		Co	nc		Inhibit	lor				Con	C	Sa	nd Type		Si	ze	C	lty
								FI	luid Da	ata									

1			i leiter is ereet						
Sta	nge/Plug #: 1		2				-		
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	282.2	Total Mix Fluid Gal/sk

HALLIBURTON

HALLIBURTON

Cementing Job Summary

S	tage/Plug #	<i>t</i> : 1														
Fluid #	Stage Ty	/pe		FI	uid N	ame		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	l Rate bbl/min	Total Mix Fluid Gal/s		
1	Rig Suppli Gel Water	ed						30.00	bbl	8.33	.0	.0	.0			
	STANDARI POZ 34 / ENHANCER		ECON	IOCEM (TN	I) SY	STEM (452	2992)	140.0	sacks	13.6	1.5	6.76		6.76		
	5 lbm	1	KOL-S	EAL, BULI	(100	0064233)										
	0.25 %	5	SA-10	15, 50 LB S	ACK	(1020770	46)									
	0.2 %	(CFR-3	, W/O DEF	OAM	ER, 50 LB	SK (100	003653)								
	6.756 Gal FRESH WATER															
3						M (452986	5)	190.0	sacks	15.6	1.19	5.08		5.08		
	0.4 %	ŀ	HALA	D(R)-9, 50	B (1	00001617)						C				
	2 lbm	ŀ	(OL-S	EAL, BULK	(100	0064233)										
	5.076 Gal	F	RESI	H WATER												
4	Displaceme	ent						202.00	bbl	8.33	.0	.0	.0			
Ca	Iculated Va	alues		Pres	sur	es	Volumes									
Displac	cement		Sh	ut In: Inst	Int		Lost Re	eturns		Cement S	lurry		Pad			
Top Of	Cement	-	5	Vin			Cemen	t Returns	5	Actual Di			Treatm			
Frac G	radient		15	Min			Spacer	S		Load and	Breakdo	own	Total J	ob		
	•						R	ates								
Circul	ating			Mixin	-			Displac	ement			Avg. Jo	do			
Cem	ent Left In P	ipe A	Amou		Rea		Joint									
Frac R	Ring # 1 @	10		Frac ring	#2	0 1	D	Frac Rin				Frac Ring	#4@	ID		
Th	e Informa	tion S	tate	d Herein	ls C	orrect	Custom		entative S	ignature	/{	,				

Directional	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS				
Survey	Depth	Incl.	Azim.	Depth	Southings (-)	Westings (-)	Section	deg/100'				
Calculations	(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7725	202	4635	660
BHL	9276	92.40	2.60	4793.07	4749.07	-24.44	4749.13	0.00	2976	4951	4639	652
Miss Entry	5044	75.47	358.43	4797.56	523.87	9.00	523.80	9.29	7201	726	4648	647
Top Perf	5532	88.98	357.06	4825.02	1008.64	-19.71	1008.75	1.09	6716	1211	4622	673
Bottom Perf	9176	91.82	2.36	4796.76	4649.24	-28.76	4649.33	2.12	3076	4851	4634	657

Survey Points

-

NW Corner XY Coord	X 2103319	Y 134777		х	Y	m North Line slope 0.0066175
SW Corner XY Coord	2103366	126840	Surface XY	2108000	127083	East Line slope -0.0066877
NE Corner XY Coord	2108608	134812				South Line slope 0.0088763
SE Corner XY Coord	2108661	126887				West Line slope -0.0059216

	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS				
	Depth	Incl.	Azim.	Depth	Southings (-)	Westings (-)	Section	deg/100'	<u></u>			
	(ft) 0	(deg) 0.0	(ft) 0	(ft) 0	(ft) 0	(ft) 0	(ít) 0	(deg) 0	FNL 7725	FSL 202	FWL 4635	FEL 660
	242	0.40	107.00	242.00	-0.247	0.808	-0.25	0.17	7725	202	4636	659
	489	0.40	107.00	488.99	-0.751	2.457	-0.77	0.00	7726	201	4638	657
	765 863	0.00 0.20	107.00 107.00	764.99 862.99	-1.033 -1.083	3.378	-1.05	0.14	7726	201	4639	656
	1138	0.30	98.90	1137.99	-1.335	3.542 4.712	-1.11 -1.36	0.20 0.04	7726 7726	201 200	4639 4640	656 655
	1412	0.20	92.50	1411.98	-1.466	5.898	-1.50	0.04	7726	200	4641	654
	1886	0.40	121.30	1885.98	-2.362	8.139	-2.41	0.05	7727	199	4644	652
	2360 2834	0.40 0.20	127.90 55.60	2359.97 2833.96	-4.238 -4.787	10.858 12.846	-4.31 -4.87	0.01 0.08	7729 7730	198 197	4646 4648	649 647
	3309	0.60	328.10	3308,95	-2.207	12.040	-2.28	0.08	7727	200	4648	647
	3783	0.60	97.60	3782.94	-0.428	13.365	-0.51	0.23	7725	201	4649	646
	4034 4066	0.60	37.90	4033.93	0.435	15.475	0.34	0.24	7725	202	4651	644
	4088	0.50 1.30	54.00 357.70	4065.93 4096.92	0.649 1.080	15.690 15.786	0.55 0.98	0.57 3.56	7724 7724	202 203	4651 4651	644 644
	4129	3.10	356.00	4128.90	2.306	15.711	2.21	5.63	7723	203	4651	644
	4160	4.70	2.50	4159.83	4.411	15.708	4.31	5.35	7721	206	4651	644
	4192	6.20	0.10	4191.68	7.449	15.768	7.35	4.74	7718	209	4651	644
	4222 4254	8.20 10.40	358.30 358.90	4221.44 4253.02	11.208 16.377	15.707 15.584	11.11 16.28	6.71 6.88	7714 7709	213	4651 4651	644
	4286	11.40	1.50	4284.44	22.427	15.612	22,33	3.48	7703	218 224	4651	644 644
	4318	13.60	358.00	4315.68	29.349	15.563	29.25	7.27	7696	231	4651	644
	4349	16.20	355.70	4345.64	37.305	15.111	37.21	8.60	7688	239	4651	644
	4381 4412	19.30 22.50	353.20 354.00	4376.11 4405.07	47.010 57.999	14.150 12.923	46.92 57.92	9.97 10.36	7678 7667	249 260	4650 4649	645
	4444	25.00	356.80	4434.36	70.842	11.906	70.77	8.57	7654	273	4649	646 647
	4475	27.60	359.60	4462.15	84.566	11.490	84.49	9.29	7640	286	4647	648
	4506	30.20	0.90	4489.28	99.546	11.562	99.47	8.63	7626	301	4648	647
	4537 4569	33.30 36.20	1.10 0.70	4515.64 4541.93	115.854 134.090	11.848 12.132	115.78 134.01	10.01	7609 7591	318	4648	647
	4600	38.70	359.80	4566.54	152.938	12.132	152.86	9.09 8.26	7572	336 355	4648 4649	647 646
	4632	41.70	359.50	4590.98	173.590	12.082	173.51	9.39	7551	375	4649	646
Top of Tangent	4664	45.40	359.70	4614.17	195.633	11.930	195.55	11.57	7529	397	4649	646
@ 5197'	4695 4727	48.60 51.30	359.30 358.80	4635.31 4655.89	218.301 242.790	11.730 11.322	218.22 242.71	10.37	7507	420	4648	646
e ····	4758	53.80	358.20	4674.74	267.390	10.675	267.32	8.52 8.21	7482 7458	445 469	4648 4648	647 647
	4789	56.50	357.70	4692.46	292.812	9.764	292.74	8.81	7432	495	4647	648
Btm of Tangent	4821 4852	58,90	358.60	4709.55	319.844	8.893	319.78	7.87	7405	522	4646	649
@ 5397'	4884	60.80 63.10	359.00 0.40	4725.12 4740.17	346.643 374.880	8.333 8.189	346.58 374.82	6.23 8.16	7378 7350	548 577	4646 4646	649 649
0	4915	65.30	0.90	4753.66	402.787	8.507	402.72	7.24	7322	605	4646	648
	4947	67.30	1.90	4766.52	432.077	9.224	432.01	6.87	7293	634	4647	648
	4978 5010	69.80 72.40	0.60	4777.86	460.920	9.851	460.85	8.96	7264	663	4648	647
	5041	75.30	359.00 358.60	4788.23 4796.85	491.191 520.958	9.742 9.118	491.12 520.89	9.40 9.44	7234 7204	693 723	4648 4648	647 647
	5073	77.10	356.80	4804.48	552.006	7.869	551.95	7.84	7173	754	4647	648
	5105	79.80	356.30	4810.89	583.298	5.982	583.25	8.58	7142	785	4645	650
	5136 5168	81.80 84.00	356.30	4815.84	613.834	4.007	613.80	6.45	7111	816	4643	652
	5200	86.30	356.40 356.70	4819.80 4822.50	645.522 677.348	1.986 0.067	645.50 677.33	6.88 7.25	7079 7048	847 879	4641 4640	653 655
	5231	87.30	356.80	4824.23	708.249	-1.688	708.25	3.24	7017	910	4638	657
	5263	88.20	356.70	4825.49	740.173	-3.500	740.18	2.83	6985	942	4636	658
	5294 5325	89.70 91.00	356.80 356.30	4826.06 4825.87	771.117 802.060	-5.258 -7.123	771.13 802.09	4.85	6954	973	4635	660
	5357	91.10	356.00	4825.28	833,982	-9.271	834.02	4.49 0.99	6923 6891	1004 1036	4633 4631	661 663
	5389	91.70	356.00	4824.50	865.894	-11.503	865.95	1.87	6859	1068	4629	665
	5420	90.50	356.40	4823.91	896.820	-13.557	896.89	4.08	6828	1099	4627	667
	5452 5545	89.50 88.90	356.80 357.10	4823.91 4825.20	928.763 1021.622	-15.455 -20.402	928.84 1021.73	3.37	6796 6703	1131	4625	669 673
	5576	89.20	356.90	4825.72	1021.022	-20.402	1021.73	0.72 1.16	6703 6672	1224 1255	4621 4620	673 675
	5608	87.90	. 356.70	4826.53	1084.514	-23.810	1084.64	4.11	6640	1287	4618	676
	5640	87.30	356.70	4827.87	1116.433	-25.651	1116.57	1.87	6608	1319	4616	678
	5671 5703	87.30 87.00	356.80 356.40	4829.33 4830.92	1147.349 1179.253	-27.406 -29.302	1147.50 1179.41	0.32 1.56	6577 6546	1349 1381	4615 4613	679
	5735	86.60	356.10	4832.71	1211.134	-31.391	1211.31	1.56	6514	1413	4613	681 683
											5 B	

Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS				
Depth	Incl.	Azim.	Depth	Southings (-)	Westings (-)	Section	deg/100'				
(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
5766	86.50	356.80	4834.57	1242.019	-33,307	1242.20	2.28	6483	1444	4609	685
5798	86.80	357.20	4836.44	1273.920	-34.979	1274.12		6451	1476	4608	686
5829		357.70	4837.93	1304.853	-36.357	1305.06	3.32	6420	1507	4607	687
5861		358.70	4838.85	1336.823	-37.361	1337.03	5.12	6388	1539	4606	688
5892		358.90	4839.42	1367.811	-38.010	1368.02	0.72	6357	1570	4606	689
5924		359.30	4839.95	1399.803	-38.513	1400.02	1.56	6325	1602	4605	689
5956		0.90	4840,23	1431.800	-38.457	1432.01	5.34	6293	1634	4605	689
5986		2.20	4840.18	1461.788	-37.646	1462.00	4.77	6263	1664	4606	688
6018		2.30	4839.81	1493.761	-36.389	1493,96	1.59	6231	1696	4608	686
6049		2.50	4839.33	1524.730	-35,091	1524.92	0.65	6200	1727	4609	685
6144		2.30	4836.51	1619.602	-31.115	1619.77	1.70	6105	1822	4614	680
6238		2.30	4832.57	1713.444	-27.346	1713.58	0.21	6011	1916	4618	676
6333		1.80	4828.84	1808.310	-23.950	1808.42	0.54	5917	2010	4622	672
6428		1.50	4825.44	1903.209	-21.217	1903.31	0.45	5822	2105	4625	668
6523		1.10	4823.78	1998.166	-19.062	1998.25	1.94	5727	2200	4628	665
6620	89.50	1.00	4824.12	2095.149	-17.284	2095.22	0.63	5630	2297	4631	663
6715	90.50	0.50	4824.12	2190.139	-16.041	2190.20	1.18	5535	2392	4632	661
6809	90.90	0.40	4822.98	2284.129	-15.303	2284.18	0.44	5441	2486	4634	660
6904	92.00	1.10	4820.57	2379.089	-14.060	2379.13	1.37	5346	2581	4635	658
7000	88.80	0.00	4819.90	2475.068	-13.139	2475.10	3.52	5250	2677	4637	656
7095	89.30	0.50	4821.48	2570.053	-12.724	2570.08	0.74	5155	2772	4638	655
7188	93.00	0.70	4819.61	2663.013	-11.751	2663.03	3.98	5062	2865	4639	654
7283	92.00	0.80	4815.47	2757.914	-10.508	2757.92	1.06	4967	2960	4641	652
7378	90.10	0.10	4813.73	2852.890	-9.763	2852.89	2.13	4872	3055	4643	650
7472	90.30	0.30	4813.40	2946.888	-9.434	2946.89	0.30	4778	3149	4643	649
7567	89.60	358.90	4813.48	3041.883	-10.098	3041.89	1.65	4683	3244	4643	649
7662	89.90	358.70	4813.89	3136.861	-12.087	3136.88	0.38	4588	3339	4642	651
7757	90.20	357.60	4813.81	3231.810	-15.154	3231.84	1.20	4493	3434	4639	653
7851	91.40	357.60	4812.50	3325.717	-19.090	3325.77	1.28	4399	3528	4636	657
7945	90.50	356.50	4810.94	3419.577	-23.927	3419.66	1.51	4305	3622	4632	661
8040	89.60	356.80	4810.86	3514.414	-29.478	3514.53	1.00	4210	3717	4627	666
8160	94.10	358.20	4806.98	3634.203	-34.710	3634.35	3.93	4091	3836	4622	670
8255	95.00	358.40	4799.45	3728.861	-37.520	3729.02	0.97	3996	3931	4620	672
8349	93.10	358.90	4792.81	3822.596	-39.728	3822.77	2.09	3902	4025	4618	674
8,444	90.9	359.9	4,789	3917.525	-40.722	3,918	2.543507	3807	4120	4618	674
8,538	90.6	0.5	4,788	4011.516	-40.394	4,012	0.713589	3713	4214	4619	673
8,633	88.4	0.6	4,789	4106.502	-39.482	4,107	2.31818	3618	4309	4620	672
8,728	88.599998	0.5	4,792	4201.465	-38.570	4,202	0.235358	3523	4404	4622	670
8823	89.30	1.10	4793.32	4296.439	-37.244	4296.59	0.97	3428	4499	4624	668
8918	88.50	0.60	4795.14	4391.410	-35.835	4391.55	0.99	3333	4594	4626	666
9014	88.50	1.50	4797.66	4487,360	-34.076	4487.49	0.94	3237	4690	4628	664
9108	90.50	1.80	4798.48	4581.313	-31.370	4581.42	2.15	3143	4783	4631	660
9206	92.40	2.60	4796.00	4679.204	-27.610	4679.28	2.10	3046	4881	4636	656
9276	92.40	2.60	4793.07	4749.070	-24.437	4749.13	0.00	2976	4951	4639	652
							0.00	2010		1000	002

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/12/2013
Job End Date:	6/14/2013
State:	Kansas
County:	Harper
API Number:	
Operator Name:	SandRidge Energy
Well Name and Number:	Brad 3508 4-12H
Longitude:	-98.13013302
Latitude:	37.01508998
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,793
Total Base Water Volume (gal):	1,843,444
Total Base Non Water Volume:	0





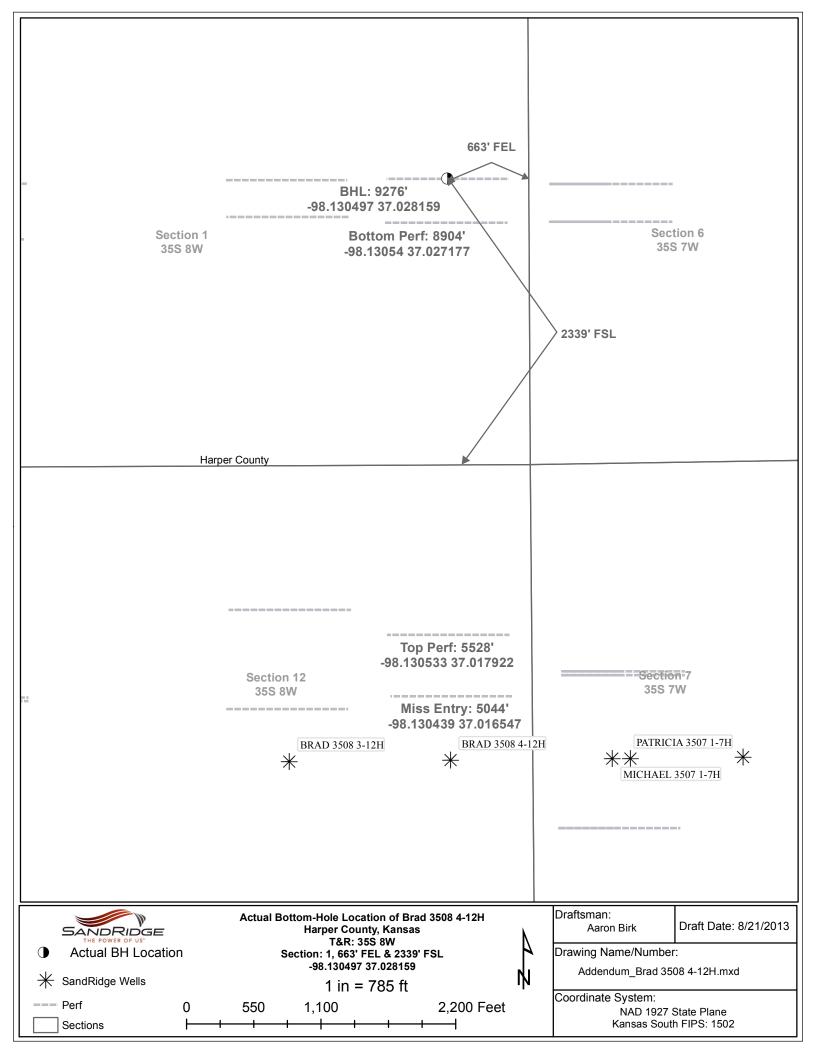
Hydraulic Fracturing Fluid Composition:

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
Water	Sandridge Energy Corp	Carrier / Base Fluid					
			Carrier / Base Fluid - Water	7732-18-5	100.00000	94.03514	
40/70 Premium	WFT	Proppant					
			Crystalline Silica in the form of Quartz	14808-60-7	100.00000	4.58495	
15% HCL	WFT	Acid					
			Hydrochloric Acid	7647-01-0	15.00000	0.16617	
WGA-35LC	WFT	Gelling Agents					
			Ethanaminium, N,N,N-trimethyl- 2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2- propenamide	69418-26-4	50.00000	0.07154	
			Petroleum Distillates	64742-47-8	40.00000	0.05723	
			Alcohols, C12-14-secondary, ethoxylated	84133-50-6	5.00000	0.00715	
WNE-363L	WFT	Surfactant					
			Polymer	9003-11-6	30.00000		
			Dodecylbenzenesulfonic acid, monoethanolamine salt	26836-07-7	15.00000	0.00801	
			2-Ethylhexanol	104-76-7	7.00000	0.00374	
			Poly(oxy-1,2-ethanediyl), a- isotridecyl-w-hydroxy-	9043-30-5	5.00000	0.00267	

Bio-Clear® 242D	WFT	Bactericide					
			Glutaraldehyde	111-30-8	42.00000	0.01144	
			Quaternary ammonium compounds, benzyl-C12-18- alkldimethyl, chlorides	68424-85-1	7.00000	0.00191	
WIC-644L	WFT	Iron Control					
			acetic acid glacial	64-19-7	90.00000	0.00490	
WSI-671L	WFT	Inhibitor					
			Ammonium Chloride	12125-02-9	20.00000	0.00426	
WIC-641L	WFT	Iron Control					
			Citric acid	77-92-9	60.00000	0.00380	
WAI-251LC	WFT	Inhibitor					
			Ethylene Glycol	111-76-2	40.00000	0.00044	
			N,N-Dimethylformamide	68-12-2	20.00000	0.00022	
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	10.00000	0.00011	
			2-Butoxyethanol	111-76-2	10.00000	0.00011	
			Isopropyl Alcohol	67-63-0	5.00000	0.00005	
			Triethylphosphate	78-40-0	5.00000	0.00005	
			1-Octanol	111-87-5	5.00000	0.00005	
			1-Decanol	112-30-1	5.00000	0.00005	
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00005	
WFR-55LA	WFT	Friction Reducers					
			Ethylene Glycol	107-21-1	5.00000	0.00071	
Ingredients shown a	above are subject t	o 29 CFR 1910.1200(i) and a	appear on Material Safety Data Sh	neets (MSDS). Ingree	dients shown below are No	n-MSDS.	
		Other Chemicals					
			Proprietary Ingredient	Proprietary		0.05660	
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated	68966-36-9		0.00852	
			Citric Acid	77-92-9		0.00715	
			Adipic acid	124-04-9		0.00715	
			Acrylamide	79-06-1		0.00143	
			Cinnamaldehyde	104-55-2		0.00005	
			Dioxane	123-91-1		0.00001	
			Ethylene Oxide	75-21-8		0.00001	
			Acetaldehyde	75-07-0		0.00001	

* 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)



Remarks	
Tiffany Golay 08/05/013 04:18 pm	Conductor weight: 106.5 lbs/ft
Tiffany Golay 08/05/013 04:10 pm	Well completed using an open hole packer system- no liner was cemented