

Co	nfiden	tiality	/ Requested:
	Yes	N	lo

### Kansas Corporation Commission Oil & Gas Conservation Division

1204018

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:	SecTwpS. R East West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SHOW   □ Gas □ D&A □ ENHR □ SIGW   □ OG □ GSW □ Temp. Abd.   □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.):   □ If Workover/Re-entry: Old Well Info as follows:   Operator:  Well Name:	Producing Formation:  Elevation: Ground: Kelly Bushing: Feet  Total Vertical Depth: Plug Back Total Depth: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt.
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
□ Commingled         Permit #:	Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:
GSW Permit #:	Cuerter See Two S R Total West
Spud Date or Date Reached TD Completion Date or Recompletion Date	QuarterSec.         TwpS. R East West           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 N	Name:			_ Well #:			
Sec Twp	S. R	East	West	County	:						
	ow important tops of fo ing and shut-in pressu o surface test, along wi	res, whe	ther shut-in pre	ssure reacl	hed stati	c level, hydrosta	tic pressures, bo				
Final Radioactivity Logilles must be submitted						gs must be ema	iled to kcc-well-lo	ogs@kcc.ks.go	v. Digital	electronic log	
Drill Stem Tests Taken (Attach Additional S		Ye	es No			3	on (Top), Depth a			Sample	
Samples Sent to Geol	ogical Survey	Ye	es 🗌 No		Nam	9		Тор	L	Datum	
Cores Taken Electric Log Run											
List All E. Logs Run:											
			CASING	RECORD	│ Ne	w Used					
		Repo				rmediate, producti	on, etc.				
Purpose of String	Size Hole Drilled		e Casing : (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives	
									<u> </u>		
Purpose	Depth					EEZE RECORD					
Purpose: Perforate	Top Bottom	Туре	Type of Cement # Sacks Used			Type and Percent Additives					
Protect Casing Plug Back TD											
Plug Off Zone											
Did you perform a hydrau	ilic fracturing treatment or	n this well?	·			Yes	No (If No, sk	ip questions 2 ar	nd 3)		
	otal base fluid of the hydra		•		•			ip question 3)			
Was the hydraulic fractur	ing treatment information	submitted	to the chemical of	disclosure reg	gistry?	Yes	No (If No, file	out Page Three	of the ACC	)-1)	
Shots Per Foot			ID - Bridge Plug Each Interval Perl				cture, Shot, Cemen		b	Depth	
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:					
							Yes No				
Date of First, Resumed	Production, SWD or ENH	R.	Producing Meth Flowing	nod:	g 🗌	Gas Lift C	other (Explain)				
Estimated Production Per 24 Hours	Oil Bl	bls.	Gas	Mcf	Wate	er Bl	ols.	Gas-Oil Ratio		Gravity	
DIODOGITI	ON OF CAC			ACTUOD OF	COMPLE	TION		DDODUGT			
Vented Sold	ON OF GAS:  Used on Lease		N Open Hole	NETHOD OF $\Box$ Perf.	Dually	Comp. Con	nmingled	PRODUCTIO	λΝ ΙΝΙΕΚ\	/AL:	
(If vented, Sub			Other (Specify)		(Submit A		mit ACO-4)				

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Matthew 3306 1-27H
Doc ID	1204018

## Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4863-4866	Fresh slickwater Frac	4863-5000
5	4931-4934		
5	4997-5000		
5	5147-5150	Kiel Slickwater Frac	5147-5330
5	5232-5235		
5	5237-5330		
5	5500-5503	Kiel Slickwater Frac	5500-5621
5	5559-5562		
5	5638-5641		
5	5684-5687	Kiel Slickwater Frac	5684-5850
5	5684-5850		
5	5757-5760		
5	5909-5912	Kiel Slickwater Frac	5909-6070
5	5975-5978		
5	6067-6070		
5	6127-6130	Kiel Slickwater Frac	6127-6282
5	6221-6224		
5	6220-6625		
5	6279-6282		
5	6411-6414	Kiel Slickwater Frac	6411-6527
5	6479-6482		
5	6524-6527		
5	6584-6587	Kiel Slickwater Frac	6584-6675
5	6672-6675		

Form	ACO1 - Well Completion
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## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
conductor	30	20	75	90	grout	10	see report
surface	12.25	9.625	36	690	Class A 65/35 POZ Blend	360	see report
intermedia te	8.75	7	26	5119	Class A 50/50 POZ blend	350	see report

## **Hydraulic Fracturing Fluid Product Component Information Disclosure**

4/7/2014
4/8/2014
Kansas
Harper
15-077-22008-01-00
SandRidge Energy
Matthew 3306 1-27H
-97.96154000
37.14574000
NAD27
NO
4,515
1,726,830
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	Operator	Carrier					
			Water	7732-18-5	100.00000	95.73476	
Sand, Brown (40/70)	Baker Hughes	Proppant					
			Crystalline Silica: Quartz (SiO2)	14808-60-7	100.00000	2.94142	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.68298	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.12053	SmartCare Product
Preferred Garnet RC 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	0.38926	
			Castor Oil	8001-79-4	5.00000	0.01946	
FRW-15DX	Baker Hughes	Friction Reducer					
			Anionic Water-Soluble Polymer	Trade Secret	100.00000	0.02321	
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01370	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00457	SmartCare Product
Scaletrol 7208, 330 gl tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00766	
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					

			Citric Acid	77-92-9	60.00000	0.00277	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00047	
			Fatty Acids	Trade Secret	30.00000	0.00024	
			Thiourea Polymer	68527-49-1	30.00000	0.00024	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00024	
			Propargyl Alcohol	107-19-7	10.00000	0.00008	
			Olefin	Trade Secret	5.00000	0.00004	
Ingredients shown ab	ove are subject to 29 C	FR 1910.1200(i) and a	opear on Material Safety Data She	eets (MSDS). Ingredie	ents shown below are I	Non-MSDS.	
		Other Chemicals					
			Water	7732-18-5		0.03885	
			Copolymer	Trade Secret		0.01827	
			Diethylene Glycol	111-46-6		0.00128	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			Calcium Chloride	10043-52-4			
			Polyacrylate	Trade Secret			
			Potassium Chloride	7447-40-7			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			

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)

<sup>\*</sup> 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%



# Survey Report

DRT Job #: DR1402022

Company: Well Name: Legals:

County/State: Rig Name:

Sandridge

Mathew 3306 1-27H Sec: 34 Township: 33S Range: 6W Harper County KS Lariat 20

Customer Rep Position

Directional Driller

Scott Graham Mike Foster

MWD Operator

George Hunt

		4.44			Matthe	w 3306	1-27H Su	rveys				
Туре	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	706.00	7.40	326.90	704.04	38.14	-24.86	38.50	1.05	1.05	4.69	326.90	45.53
Survey	800.00	7.10	328.80	797.29	48.18	-31.18	48.63	0.41	0.32	2.02	327.09	57.39
Survey	895.00	5.10	338.00	891.75	57.12	-35.80	57.63	2.34	2.11	9.68	327.92	67.41
Survey	990.00	3.50	343.40	986.48	63.81	-38.21	64.36	1.74	1.68	5.68	329.09	74.38
Survey	1085.00	2.30	332.30	1081.36	68.28	-39.93	68.85	1.39	1.26	11.68	329.68	79.10
Survey	1180.00	1.90	328.00	1176.29	71.30	-41.65	71.90	0.45	0.42	4.53	329.71	82.57
Survey	1275.00	0.50	313.40	1271.27	72.93	-42.78	73.54	1.50	1.47	15.37	329.60	84.55
Survey	1369.00	0.60	322.10	1365.27	73.60	-43.38	74.22	0.14	0.11	9.26	329.48	85.43
Survey	1464.00	1.30	158.40	1460.26	72.99	-43.29	73.61	1.98	0.74	172.32	329.33	84.86
Survey	1560.00	1.30	155.80	1556.23	70.98	-42.44	71.59	0.06	0.00	2.71	329.12	82.70
Survey	1655.00	1.20	146.80	1651.21	69.16	-41.45	69.75	0.23	0.11	9.47	329.06	80.63
Survey	1745.00	1.30	153.30	1741.19	67.46	-40.48	68.04	0.19	0.11	7.22	329.03	78.67
Survey	1837.00	1.20	149.40	1833.17	65.70	-39.52	66.27	0.14	0.11	4.24	328.97	76.67
Survey	1928.00	2.50	160.60	1924.12	63.01	-38.38	63.56	1.48	1.43	12.31	328.65	73.78
Survey	2019.00	2.80	161.00	2015.02	59.03	-36.99	59.56	0.33	0.33	0.44	327.93	69.66
Survey	2110.00	2.80	154.80	2105.91	54.92	-35.32	55.43	0.33	0.00	6.81	327.25	65.30
Survey	2202.00	2.70	154.90	2197.81	50.92	-33.44	51.40	0.11	0.11	0.11	326.71	60.92
Survey	2293.00	2.60	151.30	2288.71	47.17	-31.54	47.62	0.21	0.11	3.96	326.23	56.74
Survey	2384.00	2.60	147.80	2379.62	43.62	-29.45	44.04	0.17	0.00	3.85	325.97	52.63
Survey	2475.00	2.70	152.10	2470.52	39.98	-27.35	40.37	0.24	0.11	4.73	325.62	48.44
Survey	2566.00	2.60	148.20	2561.42	36.33	-25.26	36.69	0.23	0.11	4.29	325.19	44.25
Survey	2657.00	2.50	146.60	2652.33	32.92	-23.08	33.25	0.13	0.11	1.76	324.97	40.20
Survey	2751.00	2.70	150.30	2746.23	29.28	-20.85	29.58	0.28	0.21	3.94	324.55	35.94
Survey	2844.00	2.50	153.10	2839.13	25.57	-18.85	25.84	0.25	0.22	3.01	323.60	31.77
Survey	2938.00	2.40	154.30	2933.05	21.97	-17.07	22.21	0.12	0.11	1.28	322.15	27.82
Survey	3031.00	2.30	149.20	3025.97	18.61	-15.27	18.83	0.25	0.11	5.48	320.63	24.07
Survey	3126.00	2.20	147.20	3120.90	15.44	-13.31	15.63	0.13	0.11	2.11	319.24	20.39
Survey	3220.00	2.30	147.10	3214.83	12.34	-11.31	12.50	0.11	0.11	0.11	317.49	16.74
Survey	3315.00	2.30	136.60	3309.75	9.35	-8.96	9.48	0.44	0.00	11.05	316.22	12.95
Survey	3410.00	2.20	133.90	3404.68	6.70	-6.34	6.79	0.15	0.11	2.84	316.58	9.22
Survey	3504.00	0.30	41.90	3498.66	5.63	-4.88	5.70	2.37	2.02	97.87	319.08	7.45
Survey	3599.00	0.90	315.40	3593.65	6.35	-5.23	6.43	0.98	0.63	91.05	320.52	8.23
Survey	3630.00	2.50	353.30	3624.64	7.19	-5.48	7.27	6.04	5.16	122.26	322.69	9.04
Survey	3661.00	4.50	349.10	3655.58	9.06	-5.79	9.14	6.50	6.45	13.55	327.42	10.75
Survey	3693.00	6.70	350.10	3687.43	12.13	-6.35	12.22	6.88	6.88	3.13	332.37	13.69
Survey	3724.00	9.40	353.60	3718.12	16.43	-6.94	16.53	8.85	8.71	11.29	337.10	17.84
Survey	3756.00	10.20	353.20	3749.65	21.84	-7.57	21.95	2.51	2.50	1.25	340.88	23.11
Survey	3788.00	9.70	351.40	3781.17	27.32	-8.31	27.44	1.84	1.56	5.62	343.08	28.56
Survey	3819.00	9.30	350.70	3811.75	32.37	-9.10	32.50	1.34	1.29	2.26	344.30	33.62
Survey	3851.00	9.20	349.00	3843.33	37.44	-10.01	37.58	0.91	0.31	5.31	345.03	38.76
Survey	3882.00	9.20	350.20	3873.93	42.31	-10.90	42.46	0.62	0.00	3.87	345.55	43.69



# Survey Report

DRT Job #:

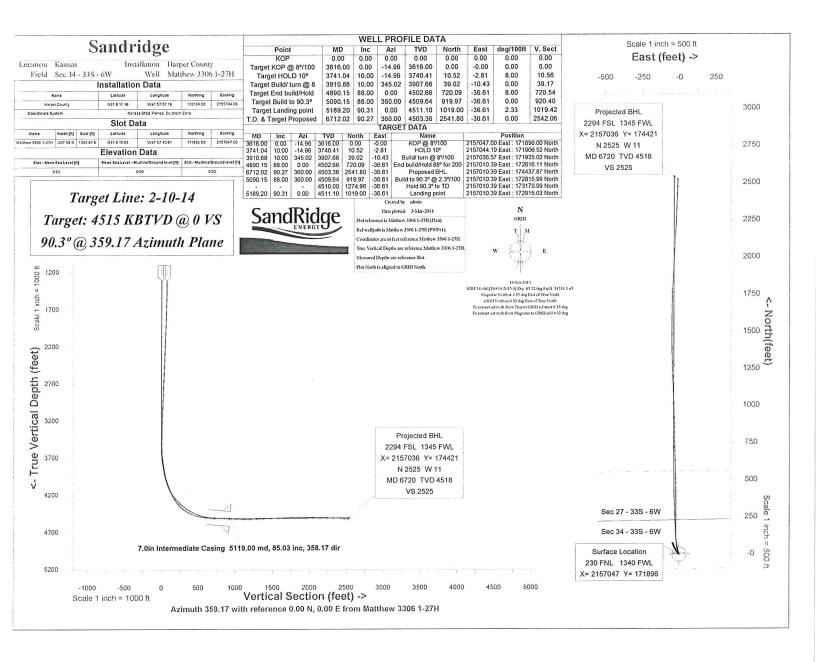
STATE OF THE STATE OF	Selection of the select	國際經			Her The Language State		3 1-27H Su			T D	01 4	
Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	3914.00	10.50	349.10	3905.46	47.69	-11.89	47.86	4.10	4.06	3.44	346.00	49.15
Survey	3946.00	13.10	350.50	3936.78	54.13	-13.04	54.31	8.17	8.13	4.38	346.46	55.68
Survey	3977.00	15.60	351.40	3966.81	61.72	-14.24	61.92	8.10	8.06	2.90	347.01	63.34
Survey	4009.00	17.40	350.60	3997.49	70.69	-15.67	70.91	5.67	5.63	2.50	347.50	72.41
Survey	4040.00	19.10	351.60	4026.93	80.28	-17.17	80.52	5.58	5.48	3.23	347.93	82.10
Survey	4071.00	21.50	352.20	4056.00	90.93	-18.68	91.19	7.77	7.74	1.94	348.39	92.83
Survey	4102.00	22.00	353.70	4084.79	102.33	-20.09	102.61	2.41	1.61	4.84	348.89	104.28
Survey	4134.00	22.40	357.10	4114.42	114.38	-21.05	114.67	4.20	1.25	10.63	349.57	116.30
Survey	4165.00	22.30	359.30	4143.09	126.16	-21.42	126.46	2.72	0.32	7.10	350.36	127.97
Survey	4197.00	24.30	0.20	4172.48	138.82	-21.47	139.12	6.35	6.25	2.81	351.21	140.47
Survey	4228.00	26.90	1.80	4200.43	152.21	-21.23	152.50	8.68	8.39	5.16	352.06	153.68
Survey	4260.00	29.50	1.90	4228.63	167.32	-20.74	167.60	8.13	8.12	0.31	352.93	168.60
Survey	4291.00	32.10	0.60	4255.25	183.19	-20.40	183.47	8.66	8.39	4.19	353.65	184.32
urvey	4322.00	35.30	359.20	4281.04	200.39	-20.44	200.67	10.62	10.32	4.52	354.18	201.43
Survey	4353.00	38.60	359.30	4305.81	219.02	-20.68	219.30	10.65	10.65	0.32	354.61	219.99
Survey	4385.00	42.30	359.60	4330.16	239.78	-20.88	240.06	11.58	11.56	0.94	355.02	240.69
Survey	4416.00	46.00	0.00	4352.40	261.37	-20.95	261.65	11.97	11.94	1.29	355.42	262.21
Survey	4448.00	49.60	0.30	4373.89	285.07	-20.89	285.34	11.27	11.25	0.94	355.81	285.83
Survey	4479.00	53.40	0.10	4393.18	309.33	-20.81	309.60	12.27	12.26	0.65	356.15	310.03
urvey	4510.00	57.20	0.00	4410.83	334.81	-20.78	335.08	12.26	12.26	0.32	356.45	335.45
urvey	4542.00	61.20	0.00	4427.21	362.29	-20.78	362.55	12.50	12.50	0.00	356.72	362.89
urvey	4574.00	65.20	359.70	4441.64	390.85	-20.86	391.11	12.53	12.50	0.94	356.94	391.41
urvey	4605.00	68.60	359.30	4453.80	419.36	-21.11	419.62	11.03	10.97	1.29	357.12	419.89
Survey	4636.00	71.40	358.80	4464.40	448.48	-21.59	448.75	9.16	9.03	1.61	357.24	449.00
Survey	4668.00	73.80	358.60	4473.97	479.01	-22.29	479.28	7.52	7.50	0.62	357.34	479.53
urvey	4700.00	76.00	358.10	4482.31	509.89	-23.18	510.17	7.04	6.87	1.56	357.40	510.42
urvey	4731.00	78.30	357.80	4489.20	540.09	-24.26	540.38	7.48	7.42	0.97	357.43	540.63
Survey	4763.00	80.80	358.00	4495.01	571.54	-25.41	571.85	7.84	7.81	0.62	357.45	572.10
urvey	4794.00	83.60	358.60	4499.22	602.24	-26.32	602.56	9.23	9.03	1.94	357.50	602.81
urvey	4826.00	86.40	358.90	4502.01	634.10	-27.02	634.42	8.80	8.75	0.94	357.56	634.68
urvey	4857.00	87.70	359.20	4503.61	665.06	-27.53	665.39	4.30	4.19	0.97	357.63	665.63
urvey	4888.00	87.80	358.80	4504.82	696.03	-28.07	696.36	1.33	0.32	1.29	357.69	696.60
Survey	4920.00	88.00	359.40	4506.00	728.00	-28.57	728.34	1.98	0.63	1.87	357.75	728.56
Survey	4920.00	88.30	359.00	4507.00	758.98	-29.01	759.32	1.61	0.97	1.29	357.81	759.53
Survey	4983.00	88.60	358.80	4507.87	790.96	-29.62	791.31	1.13	0.94	0.62	357.86	791.51
Survey	5014.00	88.80	358.40	4508.57	821.95	-30.38	822.30	1.44	0.65	1.29	357.88	822.51
	5046.00	89.10	358.90	4509.16	853.94	-31.13	854.30	1.82	0.94	1.56	357.91	854.51
Survey	5077.00	86.90	358.50	4510.24	884.91	-31.83	885.28	7.21	7.10	1.29	357.94	885.48
urvey				4510.24	916.81	-32.75	917.19	5.70	5.63	0.94	357.95	917.39
urvey	5109.00	85.10	358.20 358.10	4515.08	946.68	-33.72	947.07	0.74	0.67	0.33	357.96	947.28
urvey	5139.00	84.90	358.10	4519.70	1009.47	-36.02	1009.89	2.93	2.86	0.63	357.96	1010.11
urvey	5202.00	86.70		4519.70	1104.30	-40.41	1104.77	2.94	2.84	0.74	357.90	1105.04
urvey	5297.00	89.40	357.00 357.60		1199.18	-44.88	1104.77	2.50	2.42	0.63	357.86	1200.02
urvey	5392.00	91.70	357.60	4522.02		-48.48	1295.60	1.55	1.46	0.52	357.86	1295.94
urvey	5488.00	93.10	358.10	4518.00	1295.03				1.49	1.60	357.92	1389.83
urvey	5582.00	91.70	359.60	4514.06	1388.92	-50.37	1389.50	2.18		0.32	358.04	1483.75
urvey	5676.00	91.90	359.90	4511.11	1482.88	-50.78	1483.46	0.38	0.21	0.00	358.15	1577.60
urvey urvey	5770.00 5865.00	93.20 92.70	359.90 1.00	4506.93 4502.04	1576.78 1671.65	-50.94 -50.20	1577.35 1672.20	1.38 1.27	1.38 0.53	1.16	358.15	1672.40



# Survey Report

DRT Job #:

Matthew 3306 1-27H Surveys												
Туре	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	5959.00	91.10	2.30	4498.92	1765.55	-47.49	1766.05	2.19	1.70	1.38	358.46	1766.19
Survey	6053.00	89.60	3.90	4498.35	1859.41	-42.41	1859.83	2.33	1.60	1.70	358.69	1859.89
Survey	6148.00	89.40	3.30	4499.18	1954.22	-36.44	1954.54	0.67	0.21	0.63	358.93	1954.56
Survey	6243.00	89.70	3.10	4499.92	2049.07	-31.14	2049.31	0.38	0.32	0.21	359.13	2049.31
Survey	6337.00	90.00	2.80	4500.17	2142.94	-26.30	2143.10	0.45	0.32	0.32	359.30	2143.10
Survey	6431.00	89.90	2.70	4500.25	2236.83	-21.79	2236.91	0.15	0.11	0.11	359.44	2236.94
Survey	6526.00	88.00	2.40	4501.99	2331.72	-17.56	2331.73	2.02	2.00	0.32	359.57	2331.79
Survey	6621.00	84.40	2.00	4508.29	2426.43	-13.92	2426.38	3.81	3.79	0.42	359.67	2426.47
Survey	6670.00	84.10	1.50	4513.19	2475.16	-12.43	2475.08	1.19	0.61	1.02	359.71	2475.19
PrjCalcPnt	6720	84.1	1.5	4518.33	2524.88	-11.13	2524.77	0	0	0	359.75	2524.90





SandRidge Energy Mathews #3306 1-27H Harper County, KS.

#### 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Mathews #3306 1-27 Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2500 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

70 Bbls (210 sacks) of 12.7 ppg Lead slurry: 65:35: Class A:Poz Blend - 1.87 Yield 6.0% Gel 2.0% cc 1/4# Floseal

32 Bbls (150 sacks) of 15.6 ppg Tail slurry: Class A - 1.20 Yield 2.0% cc 1/4# Floseal

The top plug was then released and displaced with 50 of fresh water. The plug bumped and pressured up to 1100 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy Mathews #3306 1-27 H Harper County, KS.

### 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Mathews #3306 1-27 Intermediate Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

62 Bbls (250 sacks) of 13.6 ppg Lead slurry: 50:50 Class A:Poz Blend - 1.4 Yield 2.0% Gel 0.4% FL-160 0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry: Class A - 1.18 Yield 0.8% FL-160 0.2% CD-31

The top plug was then released and displaced with 192.5 of fresh water. The plug bumped and pressured up to 1500 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.