



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1190284
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. 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: _____

1190284

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. 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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(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, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Red Fern 3507 2-16H
Doc ID	1190284

All Electric Logs Run

Prizm
Boresight
Resistivity
Nuclear
Mud

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Red Fern 3507 2-16H
Doc ID	1190284

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8359-8626	1500 gals 15% HCl, 6592 bbls slickwater, TLTR 6628 bbls	
5	8009-8283	1500 gals 15% HCl, 6303 bbls slickwater, TLTR 13329 bbls	
5	7831-7941	1500 gals 15% HCl, 4896 bbls slickwater, TLTR 18365 bbls	
5	7440-7723	1500 gals 15% HCl, 5865 bbls slickwater, TLTR 24368 bbls	
5	7104-7358	1500 gals 15% HCl, 5834 bbls slickwater, TLTR 30343 bbls	
5	6796-7032	1500 gals 15% HCl, 6109 bbls slickwater, TLTR 36549 bbls	
5	6495-6740	1500 gals 15% HCl, 6487 bbls slickwater, TLTR 43036 bbls	
5	6160-6396	1500 gals 15% HCl, 6206 bbls slickwater, TLTR 49242 bbls	
5	5856-6105	1500 gals 15% HCl, 6027 bbls slickwater, TLTR 55317 bbls	
5	5529-5774	1500 gals 15% HCl, 1829 bbls slickwater, TLTR 57161 bbls	

Section 4
35S 7W

CATHER 3507 2-4H

CATHER 3507 3-4H

SHELBY 2-3 SWD

SHELBY 1-3 SWD

CATHER 3507 4-4H

Section 3
35S 7W

RED FERN 3507 2-16H

RED FERN 3507 3-16H

NANCY 3507 1-10

Miss Entry: 5025'
-98.083327 37.019399

Top Perf: 5527'
-98.083377 37.017844

Harper County

Section 9
35S 7W

Section 10
35S 7W

Bottom Perf: 8359'
-98.083008 37.010324

BHL: 8704'
-98.082955 37.009414

686' FSL

2699' FEL

Section 16
35S 7W

Section 15
35S 7W



Actual Bottom-Hole Location of Red Fern 3507 2-16H
Harper County, Kansas

T&R: 35S 7W
Section: 9, 2699' FEL & 686' FSL
-98.082955 37.009414

1 in = 658 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet

Draftsman:

Naomi Martinez

Draft Date: 2/10/2014

Drawing Name/Number:

Addendum_Red Fern 3507 2-16H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502



Actual Wellpath Report

Sandridge Red Fern 3507 2-16H (Unit 337)_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Red Fern 3507 2-16H (Unit 337)
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Red Fern 3507 2-16H (Unit 337) Actual
Facility	Red Fern (Pad) Sec 9-35S-7W		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet		
North Reference	Grid	Software System	WellArchitect™ 3.0.0
Convergence at slot	0.26° East	User	Potepat
Scale	1.00006	Report Generated	11/25/2013 at 1:36:23 PM
Wellbore last revised	10-23-2013	Database/Source file	wa_oklahoma city

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	2122381.00	129244.00	37°01'15.091"N	98°04'51.067"W
Facility Reference Pt			2122381.00	129244.00	37°01'15.091"N	98°04'51.067"W
Field Reference Pt			2132248.82	161602.28	37°06'34.560"N	98°02'47.460"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Unit 337 (RKB) to Facility Vertical Datum	16.00ft
Horizontal Reference Pt	Slot	Unit 337 (RKB) to Mean Sea Level	1295.00ft
Vertical Reference Pt	Unit 337 (RKB)	Unit 337 (RKB) to Mud Line at Slot (Red Fern 3507 2-16H (Unit 337))	16.00ft
MD Reference Pt	Unit 337 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	188.39°



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Facility	Red Fern (Pad) Sec 9-35S-7W		

WELLPATH DATA (123 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
0.00†	0.000	291.110	0.00	0.00	0.00	0.00	2122381.00	129244.00	0.00	
16.00	0.000	291.110	16.00	0.00	0.00	0.00	2122381.00	129244.00	0.00	
100.00	0.410	291.110	100.00	-0.07	0.11	-0.28	2122380.72	129244.11	0.49	
200.00	0.350	295.910	200.00	-0.24	0.37	-0.89	2122380.11	129244.37	0.07	
300.00	0.550	305.330	299.99	-0.55	0.78	-1.56	2122379.44	129244.78	0.21	
400.00	0.660	317.490	399.99	-1.13	1.48	-2.34	2122378.66	129245.48	0.17	
500.00	0.760	317.910	499.98	-1.91	2.40	-3.17	2122377.83	129246.40	0.10	
600.00	0.840	320.900	599.97	-2.83	3.46	-4.08	2122376.92	129247.46	0.09	
700.00	1.090	331.890	699.96	-4.09	4.87	-4.99	2122376.01	129248.87	0.31	
800.00	1.290	333.970	799.94	-5.78	6.72	-5.93	2122375.07	129250.72	0.20	
900.00	1.360	334.590	899.91	-7.70	8.80	-6.93	2122374.07	129252.80	0.07	
1000.00	1.560	317.750	999.88	-9.55	10.88	-8.36	2122372.64	129254.88	0.47	
1100.00	2.570	288.570	1099.81	-10.81	12.60	-11.40	2122369.60	129256.60	1.43	
1200.00	3.880	278.690	1199.65	-11.22	13.83	-16.87	2122364.13	129257.83	1.42	
1300.00	5.110	271.230	1299.34	-10.68	14.44	-24.66	2122356.33	129258.44	1.36	
1400.00	6.950	267.870	1398.79	-9.02	14.31	-35.16	2122345.83	129258.31	1.87	
1500.00	8.950	264.730	1497.82	-6.08	13.37	-48.96	2122332.04	129257.37	2.05	
1600.00	10.400	264.080	1596.40	-2.01	11.72	-65.68	2122315.31	129255.72	1.45	
1700.00	10.860	264.490	1694.68	2.48	9.89	-84.04	2122296.96	129253.89	0.47	
1800.00	11.690	264.020	1792.75	7.26	7.93	-103.49	2122277.50	129251.93	0.84	
1900.00	11.430	263.370	1890.72	12.34	5.73	-123.41	2122257.59	129249.73	0.29	
2000.00	10.610	262.160	1988.88	17.48	3.33	-142.37	2122238.62	129247.33	0.85	
2100.00	11.120	265.410	2087.08	22.22	1.30	-161.10	2122219.89	129245.30	0.80	
2200.00	10.490	265.460	2185.31	26.42	-0.19	-179.79	2122201.20	129243.81	0.63	
2300.00	10.890	266.060	2283.58	30.47	-1.56	-198.29	2122182.70	129242.44	0.42	
2400.00	9.670	265.950	2381.97	34.30	-2.80	-216.09	2122164.90	129241.20	1.22	
2500.00	9.690	265.110	2480.54	38.04	-4.12	-232.85	2122148.13	129239.88	0.14	
2600.00	10.030	266.970	2579.07	41.70	-5.29	-249.94	2122131.05	129238.71	0.47	
2700.00	10.770	268.030	2677.42	45.10	-6.07	-267.97	2122113.02	129237.93	0.76	
2800.00	11.170	268.040	2775.60	48.52	-6.73	-286.99	2122094.00	129237.27	0.40	
2900.00	11.570	268.370	2873.63	52.01	-7.34	-306.69	2122074.29	129236.66	0.41	
3000.00	10.860	269.330	2971.72	55.23	-7.74	-326.14	2122054.85	129236.26	0.73	
3100.00	8.790	268.020	3070.25	58.09	-8.11	-343.19	2122037.79	129235.89	2.08	
3200.00	8.440	266.450	3169.12	60.98	-8.83	-358.16	2122022.83	129235.17	0.42	
3300.00	10.390	266.540	3267.77	64.35	-9.83	-374.48	2122006.50	129234.17	1.95	
3400.00	10.710	267.910	3366.08	67.90	-10.71	-392.77	2121988.21	129233.29	0.41	
3500.00	9.200	266.300	3464.57	71.26	-11.57	-410.03	2121970.94	129232.43	1.54	
3600.00	8.670	267.680	3563.36	74.33	-12.39	-425.54	2121955.43	129231.61	0.57	
3700.00	8.220	264.630	3662.28	77.44	-13.36	-440.19	2121940.79	129230.64	0.63	
3800.00	8.460	263.540	3761.22	81.02	-14.86	-454.62	2121926.36	129229.14	0.29	
3900.00	10.150	266.450	3859.90	84.73	-16.23	-470.72	2121910.25	129227.77	1.75	
4000.00	10.120	266.120	3958.34	88.42	-17.37	-488.28	2121892.69	129226.63	0.07	
4017.00	9.270	265.250	3975.10	89.05	-17.59	-491.14	2121889.84	129226.41	5.07	
4080.00	9.070	258.030	4037.29	91.93	-19.04	-501.05	2121879.92	129224.96	1.85	
4112.00	10.490	247.860	4068.83	94.29	-20.66	-506.22	2121874.75	129223.34	6.97	



Actual Wellpath Report

Sandridge Red Fern 3507 2-16H (Unit 337)_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Red Fern 3507 2-16H (Unit 337)
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Red Fern 3507 2-16H (Unit 337) Actual
Facility	Red Fern (Pad) Sec 9-35S-7W		

WELLPATH DATA (123 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
4144.00	12.010	241.040	4100.21	97.79	-23.37	-511.83	2121869.14	129220.63	6.30	
4175.00	13.650	233.100	4130.44	102.34	-27.13	-517.58	2121863.39	129216.87	7.76	
4207.00	15.430	226.860	4161.42	108.36	-32.31	-523.70	2121857.27	129211.69	7.40	
4238.00	17.770	223.520	4191.12	115.46	-38.56	-529.97	2121851.00	129205.44	8.15	
4270.00	20.420	220.330	4221.36	124.19	-46.36	-536.95	2121844.02	129197.64	8.90	
4302.00	22.430	215.980	4251.15	134.34	-55.55	-544.15	2121836.82	129188.44	8.00	
4333.00	24.080	214.010	4279.63	145.28	-65.58	-551.16	2121829.81	129178.41	5.88	
4365.00	25.090	210.890	4308.73	157.44	-76.82	-558.30	2121822.67	129167.18	5.14	
4396.00	26.660	204.730	4336.63	170.19	-88.78	-564.58	2121816.39	129155.22	10.04	
4428.00	28.310	201.230	4365.02	184.48	-102.37	-570.33	2121810.63	129141.62	7.21	
4459.00	28.850	197.050	4392.24	199.04	-116.38	-575.19	2121805.78	129127.62	6.68	
4490.00	29.630	191.610	4419.30	214.09	-131.04	-578.92	2121802.04	129112.96	8.93	
4521.00	31.490	189.670	4445.99	229.84	-146.52	-581.83	2121799.14	129097.47	6.79	
4554.00	33.310	188.800	4473.85	247.51	-163.98	-584.66	2121796.31	129080.01	5.69	
4585.00	35.700	188.140	4499.40	265.07	-181.35	-587.24	2121793.72	129062.64	7.80	
4617.00	38.360	187.830	4524.94	284.34	-200.43	-589.92	2121791.05	129043.56	8.33	
4648.00	40.880	188.770	4548.82	304.11	-219.99	-592.78	2121788.19	129024.00	8.36	
4680.00	43.150	189.040	4572.59	325.53	-241.15	-596.09	2121784.87	129002.84	7.12	
4712.00	46.260	188.580	4595.33	348.03	-263.39	-599.54	2121781.43	128980.60	9.77	
4743.00	48.710	187.920	4616.28	370.88	-286.00	-602.81	2121778.15	128957.98	8.06	
4775.00	51.110	187.390	4636.89	395.36	-310.26	-606.07	2121774.89	128933.72	7.61	
4806.00	53.630	187.320	4655.81	419.90	-334.61	-609.22	2121771.75	128909.37	8.13	
4838.00	56.400	186.930	4674.16	446.11	-360.62	-612.47	2121768.50	128883.36	8.71	
4869.00	59.810	186.240	4690.54	472.41	-386.76	-615.48	2121765.48	128857.21	11.16	
4901.00	63.460	185.710	4705.74	500.54	-414.76	-618.41	2121762.56	128829.21	11.50	
4932.00	66.350	185.480	4718.88	528.58	-442.70	-621.15	2121759.82	128801.27	9.35	
4964.00	68.790	185.410	4731.09	558.12	-472.14	-623.95	2121757.01	128771.83	7.63	
4995.00	71.290	184.860	4741.67	587.21	-501.16	-626.56	2121754.41	128742.81	8.24	
5027.00	74.540	184.180	4751.07	617.72	-531.65	-628.97	2121752.00	128712.32	10.36	
5058.00	77.502	184.860	4758.56	647.73	-561.64	-631.34	2121749.63	128682.33	9.79	
5090.00	80.700	184.530	4764.61	679.08	-592.95	-633.91	2121747.06	128651.02	10.04	
5122.00	82.860	183.540	4769.18	710.66	-624.54	-636.14	2121744.83	128619.42	7.41	
5153.00	85.400	182.030	4772.36	741.35	-655.34	-637.63	2121743.33	128588.63	9.52	
5185.00	86.430	181.870	4774.63	773.06	-687.24	-638.72	2121742.24	128556.72	3.26	
5217.00	86.950	181.770	4776.48	804.80	-719.17	-639.74	2121741.23	128524.79	1.65	
5248.00	87.480	182.080	4777.99	835.57	-750.11	-640.78	2121740.19	128493.84	1.98	
5279.00	88.210	181.660	4779.15	866.34	-781.08	-641.79	2121739.18	128462.88	2.72	
5311.00	88.670	182.590	4780.03	898.14	-813.04	-642.97	2121737.99	128430.91	3.24	
5342.00	89.540	182.760	4780.51	928.98	-844.00	-644.42	2121736.55	128399.95	2.86	
5374.00	90.340	183.100	4780.54	960.84	-875.96	-646.05	2121734.91	128367.99	2.72	
5405.00	91.390	183.500	4780.08	991.71	-906.91	-647.84	2121733.13	128337.04	3.62	
5437.00	91.510	183.430	4779.27	1023.58	-938.84	-649.77	2121731.19	128305.11	0.43	
5469.00	90.430	182.610	4778.72	1055.44	-970.79	-651.46	2121729.51	128273.16	4.24	
5485.00	90.520	182.060	4778.59	1071.35	-986.77	-652.11	2121728.85	128257.17	3.48	
5601.00	88.490	181.880	4779.59	1186.61	-1102.69	-656.10	2121724.87	128141.24	1.76	



Actual Wellpath Report

Sandridge Red Fern 3507 2-16H (Unit 337)_Final Surveys.

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Operator	Sandridge Energy	Slot	Red Fern 3507 2-16H (Unit 337)
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Red Fern 3507 2-16H (Unit 337) Actual
Facility	Red Fern (Pad) Sec 9-35S-7W		

WELLPATH DATA (123 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
5695.00	85.590	181.220	4784.45	1279.81	-1196.52	-658.64	2121722.33	128047.41	3.16	
5790.00	85.380	180.290	4791.93	1373.67	-1291.22	-659.88	2121721.08	127952.71	1.00	
5885.00	90.090	179.420	4795.68	1467.52	-1386.12	-659.64	2121721.32	127857.81	5.04	
5980.00	91.050	178.710	4794.73	1561.26	-1481.10	-658.09	2121722.87	127762.82	1.26	
6074.00	90.400	178.670	4793.54	1653.91	-1575.07	-655.94	2121725.02	127668.85	0.69	
6169.00	90.030	178.350	4793.19	1747.50	-1670.03	-653.47	2121727.49	127573.87	0.51	
6264.00	89.750	178.020	4793.37	1840.99	-1764.98	-650.47	2121730.50	127478.92	0.46	
6359.00	89.970	178.010	4793.60	1934.44	-1859.93	-647.17	2121733.79	127383.97	0.23	
6454.00	90.460	178.230	4793.25	2027.92	-1954.88	-644.06	2121736.91	127289.02	0.57	
6549.00	90.180	178.800	4792.72	2121.51	-2049.84	-641.60	2121739.37	127194.04	0.67	
6643.00	90.400	178.450	4792.24	2214.15	-2143.81	-639.34	2121741.62	127100.07	0.44	
6738.00	89.290	179.120	4792.50	2307.81	-2238.79	-637.33	2121743.64	127005.09	1.36	
6833.00	88.640	178.940	4794.21	2401.53	-2333.76	-635.72	2121745.25	126910.11	0.71	
6927.00	87.470	178.850	4797.40	2494.19	-2427.69	-633.91	2121747.06	126816.18	1.25	
7047.00	88.710	178.180	4801.40	2612.34	-2547.58	-630.80	2121750.17	126696.28	1.17	
7142.00	89.380	177.670	4802.99	2705.75	-2642.50	-627.36	2121753.61	126601.35	0.89	
7235.00	90.250	177.590	4803.29	2797.11	-2735.42	-623.51	2121757.45	126508.43	0.94	
7329.00	91.010	177.390	4802.25	2889.41	-2829.32	-619.40	2121761.57	126414.52	0.84	
7424.00	92.340	177.740	4799.48	2982.68	-2924.19	-615.36	2121765.60	126319.64	1.45	
7519.00	90.250	179.680	4797.33	3076.30	-3019.14	-613.23	2121767.74	126224.70	3.00	
7614.00	89.320	179.980	4797.69	3170.24	-3114.13	-612.94	2121768.02	126129.69	1.03	
7709.00	89.260	178.720	4798.86	3264.05	-3209.12	-611.87	2121769.10	126034.70	1.33	
7802.00	89.480	179.250	4799.88	3355.79	-3302.10	-610.22	2121770.75	125941.72	0.62	
7896.00	90.250	179.500	4800.11	3448.63	-3396.09	-609.19	2121771.77	125847.72	0.86	
7990.00	88.180	179.980	4801.39	3541.55	-3490.08	-608.77	2121772.20	125753.73	2.26	
8085.00	86.850	180.420	4805.51	3635.49	-3584.98	-609.10	2121771.87	125658.82	1.47	
8179.00	87.940	180.520	4809.79	3728.49	-3678.88	-609.87	2121771.10	125564.91	1.16	
8274.00	88.710	180.000	4812.56	3822.50	-3773.84	-610.30	2121770.67	125469.95	0.98	
8369.00	89.480	179.510	4814.06	3916.41	-3868.83	-609.89	2121771.07	125374.96	0.96	
8463.00	89.230	178.540	4815.12	4009.15	-3962.80	-608.29	2121772.67	125280.98	1.07	
8558.00	88.520	178.550	4816.99	4102.73	-4057.76	-605.88	2121775.08	125186.02	0.75	
8655.00	89.480	178.340	4818.68	4198.26	-4154.70	-603.25	2121777.72	125089.07	1.01	
8704.00	89.480	178.340	4819.12	4246.51	-4203.68	-601.83	2121779.14	125040.09	0.00	Actual BHL 8704' MD (4819' TVD) X: 2121779 Y: 125040 VS: 4247' 686' FSL 2477' FWL



Actual Wellpath Report

Sandridge Red Fern 3507 2-16H (Unit 337)_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Red Fern 3507 2-16H (Unit 337)
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Red Fern 3507 2-16H (Unit 337) Actual
Facility	Red Fern (Pad) Sec 9-35S-7W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PBHL		4812.39	-4190.77	-617.97	2121763.00	125053.00	37°00'33.682"N	98°04'58.918"W	point

WELLPATH COMPOSITION - Ref Wellbore: Red Fern 3507 2-16H (Unit 337) Actual Ref Wellpath: AWP (Final)					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
16.00	4000.00	Generic gyro - continuous (Standard)	Gyros	Red Fern 3507 2-16H (Unit 337) Actual	
4000.00	8655.00	NaviTrak (Standard)	Inteq MWD	Red Fern 3507 2-16H (Unit 337) Actual	
8655.00	8704.00	Blind Drilling (std)	Projection to bit	Red Fern 3507 2-16H (Unit 337) Actual	

Mid-Continent Conductor, LLC

Invoice

Date	Invoice #
10/24/2013	2214

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

Bill To
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Parker Waldrige	Net 30	10/24/2013	Red Fern 3507 2-16H, Harper Cnty, KS	Unit 337

Item	Quantity	Description						
Conductor Hole	105	Drilled 105 ft. conductor hole						
20" Pipe	105	Furnished 105 ft. of 20 inch conductor pipe						
Mouse Hole	80	Drilled 80 ft. mouse hole						
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe						
Cellar Hole	1	Drilled 6' X 6' cellar hole						
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn						
Mud and Water	1	Furnished mud and water						
Transport Truck - Conductor	1	Transport mud and water to location						
Grout & Trucking	13	Furnished grout and trucking to location						
Grout Pump	1	Furnished grout pump						
Fence Panels	1	Furnished safety netting around conductor holes						
Welder & Materials	1	Furnished welder and materials						
Dirt Removal	1	Furnished labor and equipment for dirt removal						
Cover Plate	1	Furnished cover plates						
Permits	1	Permits						
		AFE Number: <u>DC 11928</u> Well Name: <u>Red Fern 3507 2-16H</u> Code: <u>850-010</u> Amount: <u>18990</u> \$ ⁰⁰ Co. Man: <u>Steve W. Shew</u> Co. Man Sig.: <u>[Signature]</u> Notes: _____						
		<table border="1"> <tr> <td>Subtotal</td> <td>\$18,990.00</td> </tr> <tr> <td>Sales Tax (0.0%)</td> <td>\$0.00</td> </tr> <tr> <td>Total</td> <td>\$18,990.00</td> </tr> </table>	Subtotal	\$18,990.00	Sales Tax (0.0%)	\$0.00	Total	\$18,990.00
Subtotal	\$18,990.00							
Sales Tax (0.0%)	\$0.00							
Total	\$18,990.00							

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Cementing Service Report

REGULATORY DEPT
SANDRIDGE ENERGY

Customer SANDRIDGE				Job Number			
Well RED FERN		Location (legal)		Schlumberger Location		Job Start Oct/29/2013	
Field		Formation Name/Type		Deviation deg	Bit Size in	Well MD ft	Well TVD ft
County HARPER		State/Province KANSAS		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI		Casing/Liner			
Rig Name UNIT 337	Drilled For Oil & Gas	Service Via Land		Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone	Well Class New	Well Type Exploration		752.0	9.6	36.0	8RD
				0.0	0.0	0.0	
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line Cementing		Job Type 9 5/8 SURFACE		Perforations/Open Hole			
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection		Top, ft	Bottom, ft	shot/ft	No. of Shots
				ft	ft		Total Interval ft
Service Instructions To provide services, equipment, materials and personnel to safely cement a 9 5/8" surface casing as per client request. Pump 10 bbl fresh water, 250 sks lead slurry @12.4ppg, 160 sks tail slurry @14.8ppg, drop top plug and displace as per client approval.							Diameter in
				Treat Down Casing	Displacement 55.0 bbl	Packer Type	Packer Depth ft
	Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. bbl	Openhole Vol. bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure 364 psi		Pipe Rotated <input type="checkbox"/>		Shoe Type Float		Squeeze Type	
Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 752.0 ft		Tool Type			
No. Centralizers		Top Plugs 1	Bottom Plugs 0	Stage Tool Type		Tool Depth ft	
Cement Head Type Single		Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Oct/29/2013		Arrived on Location Oct/29/2013	Leave Location Oct/29/2013	Collar Type Float		Tail Pipe Depth ft	
				Collar Depth 708.0 ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/29/2013	03:12:45	-1	0.2	8.45	0.0	Started Acquisition	
10/29/2013	03:12:46	-1	0.2	8.45	0.0	Start Job	
10/29/2013	03:12:52	-1	0.2	8.45	0.0	Start Pumping Wash	
10/29/2013	03:14:40	17	0.2	8.46	2.8	End Wash	
10/29/2013	03:14:55	16	0.1	8.46	2.9		
10/29/2013	03:17:05	14	0.1	8.46	3.2		
10/29/2013	03:17:30	14	0.1	8.46	3.2	Pressure Test Lines	
10/29/2013	03:18:40	1030	0.0	8.46	3.4	Pressure Test Lines	
10/29/2013	03:19:15	4863	0.0	8.45	3.4		
10/29/2013	03:21:25	4455	0.0	8.46	3.4		
10/29/2013	03:21:36	4213	0.0	8.46	3.4	Start Pumping Wash	
10/29/2013	03:23:35	11	0.1	8.46	3.7		
10/29/2013	03:25:45	109	4.3	8.43	7.2		
10/29/2013	03:26:41	114	4.5	8.43	11.6	Reset Total, Vol = 11.63 bbl	
10/29/2013	03:26:43	115	4.4	8.49	0.1	End Wash	
10/29/2013	03:26:47	115	4.4	8.54	0.4	Start Mixing Lead Slurry	
10/29/2013	03:27:55	171	4.5	12.64	5.5		
10/29/2013	03:30:05	160	4.3	12.52	15.1		
10/29/2013	03:32:15	159	4.5	12.56	24.7		
10/29/2013	03:34:25	159	4.4	12.57	34.3		
10/29/2013	03:36:35	145	4.4	12.45	43.9		

Well		Field		Job Start	Customer	Job Number
RED FERN				Oct/29/2013	SANDRIDGE	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
10/29/2013	03:40:55	145	4.5	12.68	63.1	
10/29/2013	03:43:05	145	4.3	12.37	72.8	
10/29/2013	03:45:15	157	4.4	12.44	82.4	
10/29/2013	03:47:25	45	2.0	12.62	90.2	Reset Total, Vol = 90.15 bbl
10/29/2013	03:47:27	46	2.0	12.70	0.1	End Lead Slurry
10/29/2013	03:47:28	46	2.0	12.74	0.1	Start Mixing Tail Slurry
10/29/2013	03:49:35	222	4.4	14.81	7.3	
10/29/2013	03:51:45	219	4.4	14.90	16.0	
10/29/2013	03:53:55	129	3.2	14.55	23.7	
10/29/2013	03:56:05	121	3.2	14.69	30.7	
10/29/2013	03:57:12	11	1.6	14.80	34.3	Reset Total, Vol = 34.27 bbl
10/29/2013	03:57:13	11	1.5	14.80	0.0	End Tail Slurry
10/29/2013	03:57:14	12	1.1	14.80	0.0	Drop Top Plug
10/29/2013	03:58:15	15	0.0	14.25	0.1	
10/29/2013	04:00:25	14	0.0	10.91	0.1	
10/29/2013	04:02:35	13	0.0	10.15	0.1	
10/29/2013	04:04:45	44	1.2	9.53	0.3	
10/29/2013	04:06:55	102	4.4	8.54	8.8	
10/29/2013	04:09:05	122	4.5	8.47	18.5	
10/29/2013	04:11:15	188	5.1	8.41	28.3	
10/29/2013	04:13:25	227	4.4	8.45	38.0	
10/29/2013	04:15:35	202	2.2	8.45	45.7	
10/29/2013	04:17:45	237	2.2	8.45	50.5	
10/29/2013	04:19:55	249	2.3	8.45	55.2	
10/29/2013	04:22:05	976	0.0	8.46	56.3	
10/29/2013	04:23:09	976	0.0	8.46	56.3	Bump Top Plug
10/29/2013	04:24:15	976	0.0	8.46	56.3	
10/29/2013	04:26:25	533	0.0	8.46	56.5	
10/29/2013	04:28:35	529	0.0	8.46	56.5	
10/29/2013	04:29:11	529	0.0	8.46	56.5	Reset Total, Vol = 54.46 bbl
10/29/2013	04:29:13	529	0.0	8.46	0.0	End Displacement
10/29/2013	04:29:15	529	0.0	8.46	0.0	CASING TEST
10/29/2013	04:30:45	529	0.0	8.46	0.0	
10/29/2013	04:32:55	529	0.0	8.46	0.0	
10/29/2013	04:35:05	529	0.0	8.46	0.0	
10/29/2013	04:37:15	528	0.0	8.46	0.0	
10/29/2013	04:39:25	528	0.0	8.46	0.0	
10/29/2013	04:41:35	527	0.0	8.46	0.0	
10/29/2013	04:43:45	527	0.0	8.46	0.0	
10/29/2013	04:45:55	527	0.0	8.46	0.0	
10/29/2013	04:48:05	526	0.0	8.46	0.0	
10/29/2013	04:50:15	525	0.0	8.46	0.0	
10/29/2013	04:52:25	524	0.0	8.46	0.0	
10/29/2013	04:54:35	3	0.0	8.46	0.0	

Well RED FERN	Field	Job Start Oct/29/2013	Customer SANDRIDGE	Job Number
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.3	N2	Mud	Maximum Rate 6.5	Total Slurry 115.0	Mud 0.0	Spacer 10.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4872	Final 3	Average 403	Bump Plug to 979	Breakdown	Type 2% KCl	Volume bbl	Density 8.43 lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl	Displacement 55.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Washed Thru Perfs <input type="checkbox"/>	Circulation Lost <input type="checkbox"/>	Volume 25.0 bbl	To ft
Customer or Authorized Representative STEVE HITSHEW			Schlumberger Supervisor JOHN BESEDA II				Job Completed <input checked="" type="checkbox"/>	
					-		-	



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Cementing Service Report

REGULATORY DEPT
SANDRIDGE ENERGY

Customer Sandridge				Job Number 1870414				
Well Red Fern 3507, 2-16H 3507, 2-16H			Location (legal) Anthony, KS			Schlumberger Location El Reno, Oklahoma		Job Start Nov/03/2013
Field		Formation Name/Type		Deviation deg	Bit Size 8.8 in	Well MD 5530.0 ft	Well TVD ft	
County Harper		State/Province Kansas		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal	
Well Mast SEC. 9 - 35S - 7W		API/UWI		Casing/Liner				
Rig Name Unit Texas #337	Drilled For Oil & Gas	Service Via Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class New	Well Type Development		5518.2	7.0	26.0	P110	8RD
0.0	0.0			0.0	0.0	0.0		
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP		Tubing/Drill Pipe			
T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread			
Service Line Cementing	Job Type Cem Interm Casing							
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi	WH Connection Single Cement head		Perforations/Open Hole			
Service Instructions		Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft		
		ft	ft			Diameter in		
		ft	ft					
		Treat Down Casing	Displacement 207.7 bbl		Packer Type	Packer Depth ft		
		Tubing Vol. bbl	Casing Vol. 211.2 bbl		Annular Vol. bbl	Openhole Vol. bbl		
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure 850 psi		Shoe Type Guide		Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 5518.2 ft		Tool Type		
No. Centralizers 4		Top Plugs 1	Bottom Plugs	Stage Tool Type		Tool Depth ft		
Cement Head Type		Stage Tool Depth ft		Tail Pipe Size in				
Job Scheduled For Nov/03/2013	Arrived on Location Nov/03/2013		Leave Location Nov/03/2013		Collar Type Float	Tail Pipe Depth ft		
				Collar Depth 5428.6 ft	Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/03/2013	13:16:51	5	0.0	8.48	13.5	Started Acquisition		
11/03/2013	13:16:53	5	0.0	8.48	13.5	Start Pumping Spacer		
11/03/2013	13:17:41	5	0.0	8.48	13.5			
11/03/2013	13:18:31	4	0.0	8.48	13.5			
11/03/2013	13:19:21	4	0.0	8.48	0.0			
11/03/2013	13:20:11	313	3.3	8.48	0.7			
11/03/2013	13:21:01	379	4.1	8.49	4.0			
11/03/2013	13:21:51	179	0.0	8.49	5.1			
11/03/2013	13:21:59	180	0.0	8.49	5.1	Pressure Test Lines		
11/03/2013	13:22:41	181	0.0	8.48	5.1			
11/03/2013	13:23:31	2421	0.0	8.49	5.1			
11/03/2013	13:24:21	5227	0.0	8.48	5.1			
11/03/2013	13:25:11	14	0.0	8.48	5.1			
11/03/2013	13:26:01	144	0.0	8.48	5.1			
11/03/2013	13:26:51	313	2.8	8.49	5.5			
11/03/2013	13:27:41	330	2.8	8.49	7.8			
11/03/2013	13:28:31	407	4.1	8.50	10.3			
11/03/2013	13:29:21	358	4.1	8.40	13.7			
11/03/2013	13:30:11	442	4.1	8.48	17.1			
11/03/2013	13:31:01	462	4.1	8.47	20.5			
11/03/2013	13:31:51	501	4.1	8.47	23.9			

Well		Field		Job Start		Customer		Job Number	
Red Fern 3507, 2-16H 3507, 2-16H				Nov/03/2013		Sandridge		1870414	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/03/2013	13:33:31	582	4.1	8.90	30.7				
11/03/2013	13:34:01	608	4.1	11.29	32.7	End Spacer			
11/03/2013	13:34:03	605	4.1	11.26	32.9	Start Mixing Lead Slurry			
11/03/2013	13:34:04	623	4.1	11.26	32.9	Reset Total, Vol = 33.02 bbl			
11/03/2013	13:34:21	624	4.1	12.55	34.1				
11/03/2013	13:35:11	696	4.1	13.78	37.5				
11/03/2013	13:36:01	686	4.1	13.76	40.9				
11/03/2013	13:36:51	701	4.1	13.79	44.3				
11/03/2013	13:37:41	688	4.1	13.84	47.7				
11/03/2013	13:38:31	680	4.1	13.80	51.1				
11/03/2013	13:39:21	632	4.1	13.58	54.6				
11/03/2013	13:40:11	608	4.1	13.47	58.0				
11/03/2013	13:41:01	604	4.1	13.59	61.4				
11/03/2013	13:41:51	577	4.1	13.61	64.8				
11/03/2013	13:42:41	567	4.1	13.63	68.2				
11/03/2013	13:43:31	531	4.1	13.66	71.6				
11/03/2013	13:44:21	500	4.1	13.58	75.0				
11/03/2013	13:45:11	470	4.1	13.40	78.4				
11/03/2013	13:45:55	449	4.1	14.84	81.4	End Lead Slurry			
11/03/2013	13:45:57	471	4.1	14.97	81.6	Start Mixing Tail Slurry			
11/03/2013	13:45:58	471	4.1	15.07	81.6	Reset Total, Vol = 48.70 bbl			
11/03/2013	13:46:01	470	4.2	15.28	81.9				
11/03/2013	13:46:51	417	4.1	15.68	85.3				
11/03/2013	13:47:41	358	4.1	15.78	88.7				
11/03/2013	13:48:31	303	4.1	15.56	92.1				
11/03/2013	13:49:21	279	4.1	15.87	95.5				
11/03/2013	13:51:01	218	4.1	15.89	102.3				
11/03/2013	13:51:51	8	0.0	15.46	104.0	End Tail Slurry			
11/03/2013	13:51:52	8	0.0	15.46	104.0	Drop Top Plug			
11/03/2013	13:51:54	7	0.0	15.46	104.0	Start Displacement			
11/03/2013	13:51:57	8	0.0	15.45	104.0	Reset Total, Vol = 22.30 bbl			
11/03/2013	13:52:41	7	0.0	15.41	104.0				
11/03/2013	13:53:31	9	0.0	15.14	104.0				
11/03/2013	13:54:21	96	4.1	9.58	104.5				
11/03/2013	13:55:11	80	4.1	8.87	107.9				
11/03/2013	13:56:01	82	4.1	8.55	111.3				
11/03/2013	13:56:51	68	4.2	8.55	114.8				
11/03/2013	13:57:41	71	4.1	8.51	118.2				
11/03/2013	13:58:31	76	4.1	8.49	121.6				
11/03/2013	13:59:21	72	4.1	8.48	125.0				
11/03/2013	14:00:11	55	4.1	6.71	128.4				
11/03/2013	14:01:01	66	4.0	8.48	131.8				
11/03/2013	14:01:51	70	4.1	8.48	135.2				
11/03/2013	14:02:41	62	4.1	8.48	138.6				
11/03/2013	14:03:31	54	4.3	8.48	142.1				
11/03/2013	14:04:21	57	4.1	8.48	145.5				
11/03/2013	14:05:11	53	4.1	8.48	148.9				
11/03/2013	14:06:01	52	4.1	8.48	152.3				
11/03/2013	14:06:51	53	4.1	8.48	155.7				
11/03/2013	14:07:41	53	4.1	8.48	159.1				
11/03/2013	14:08:31	54	4.1	8.48	162.6				
11/03/2013	14:09:21	54	4.1	8.48	166.0				
11/03/2013	14:10:11	56	4.1	8.48	169.4				
11/03/2013	14:11:01	56	4.1	8.48	172.8				

Well		Field		Job Start		Customer		Job Number	
Red Fern 3507, 2-16H 3507, 2-16H				Nov/03/2013		Sandridge		1870414	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/03/2013	14:12:41	57	4.1	8.48	179.6				
11/03/2013	14:13:31	58	4.1	8.48	183.0				
11/03/2013	14:14:21	57	4.1	8.48	186.4				
11/03/2013	14:15:11	58	4.1	8.48	189.8				
11/03/2013	14:16:01	60	4.1	8.48	193.3				
11/03/2013	14:16:51	59	4.1	8.48	196.7				
11/03/2013	14:17:41	59	4.1	8.48	200.1				
11/03/2013	14:18:31	55	4.1	8.48	203.5				
11/03/2013	14:19:21	62	4.1	8.48	206.9				
11/03/2013	14:20:11	62	4.1	8.48	210.3				
11/03/2013	14:21:01	64	4.2	8.48	213.7				
11/03/2013	14:21:51	63	4.1	8.48	217.1				
11/03/2013	14:22:41	67	4.1	8.48	220.5				
11/03/2013	14:23:31	70	4.1	8.48	223.9				
11/03/2013	14:24:21	83	4.1	8.48	227.3				
11/03/2013	14:25:11	110	4.1	8.48	230.7				
11/03/2013	14:26:01	124	4.1	8.48	234.2				
11/03/2013	14:26:51	135	4.1	8.48	237.6				
11/03/2013	14:27:41	158	4.2	8.48	241.0				
11/03/2013	14:28:31	176	4.1	8.48	244.4				
11/03/2013	14:29:21	203	4.1	8.48	247.8				
11/03/2013	14:30:11	229	4.1	8.48	251.2				
11/03/2013	14:31:01	263	4.1	8.48	254.6				
11/03/2013	14:31:51	299	4.1	8.48	258.0				
11/03/2013	14:32:41	332	4.1	8.48	261.4				
11/03/2013	14:33:31	380	4.2	8.48	264.8				
11/03/2013	14:34:21	423	4.1	8.48	268.3				
11/03/2013	14:35:11	468	4.1	8.48	271.7				
11/03/2013	14:36:01	528	4.1	8.48	275.1				
11/03/2013	14:36:51	556	4.1	8.48	278.5				
11/03/2013	14:37:41	611	4.1	8.48	281.9				
11/03/2013	14:38:31	642	4.2	8.48	285.3				
11/03/2013	14:39:21	684	4.1	8.48	288.7				
11/03/2013	14:40:11	738	4.1	8.48	292.1				
11/03/2013	14:41:01	768	4.1	8.48	295.5				
11/03/2013	14:41:51	821	4.1	8.48	298.9				
11/03/2013	14:42:41	678	2.4	8.48	302.1				
11/03/2013	14:43:31	742	2.5	8.48	304.1				
11/03/2013	14:44:21	796	2.5	8.48	306.2				
11/03/2013	14:45:11	1374	0.0	8.48	307.8				
11/03/2013	14:46:01	1400	0.0	8.48	307.8				
11/03/2013	14:46:51	1417	0.0	8.48	307.8	Bump Top Plug			
11/03/2013	14:47:12	1421	0.0	8.48	307.8	End Displacement			
11/03/2013	14:47:14	1427	0.0	8.48	307.8				
11/03/2013	14:47:41	1427	0.0	8.48	307.8				
11/03/2013	14:48:31	1433	0.0	8.48	307.8				
11/03/2013	14:49:21	5	0.0	8.49	307.8				
11/03/2013	14:50:11	5	0.0	8.48	307.8				
11/03/2013	14:51:01	611	0.9	8.48	308.3				
11/03/2013	14:51:51	1046	0.0	8.48	308.6				
11/03/2013	14:51:56	1047	0.0	8.48	308.6	test casing			
11/03/2013	14:52:41	1044	0.0	8.48	308.6				
11/03/2013	14:53:31	1045	0.0	8.48	308.6				
11/03/2013	14:54:21	1050	0.0	8.48	308.6				

Well		Field		Job Start		Customer		Job Number	
Red Fern 3507, 2-16H 3507, 2-16H				Nov/03/2013		Sandridge		1870414	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
11/03/2013	14:56:01	1057	0.0	8.48	308.6				
11/03/2013	14:56:51	1061	0.0	8.48	308.6				
11/03/2013	14:57:41	1065	0.0	8.48	308.6				
11/03/2013	14:58:31	1068	0.0	8.48	308.6				
11/03/2013	14:59:21	1071	0.0	8.48	308.6				
11/03/2013	15:00:11	1073	0.0	8.48	308.6				
11/03/2013	15:01:01	1077	0.0	8.48	308.6				
11/03/2013	15:01:51	1080	0.0	8.48	308.6				
11/03/2013	15:02:41	1083	0.0	8.48	308.6				
11/03/2013	15:03:31	1087	0.0	8.48	308.6				
11/03/2013	15:04:21	1091	0.0	8.48	308.6				
11/03/2013	15:05:11	1096	0.0	8.48	308.6				
11/03/2013	15:06:01	1099	0.0	8.48	308.6				
11/03/2013	15:06:51	1104	0.0	8.48	308.6				
11/03/2013	15:07:41	1107	0.0	8.48	308.6				
11/03/2013	15:08:31	1111	0.0	8.48	308.6				
11/03/2013	15:09:21	1115	0.0	8.48	308.6				
11/03/2013	15:10:11	1119	0.0	8.48	308.6				
11/03/2013	15:11:01	1123	0.0	8.48	308.6				
11/03/2013	15:11:51	1127	0.0	8.48	308.6				
11/03/2013	15:12:41	1130	0.0	8.48	308.6				
11/03/2013	15:13:31	1134	0.0	8.48	308.6				
11/03/2013	15:14:21	1137	0.0	8.48	308.6				
11/03/2013	15:15:11	1141	0.0	8.48	308.6				
11/03/2013	15:16:01	1145	0.0	8.48	308.6				
11/03/2013	15:16:51	1148	0.0	8.48	308.6				
11/03/2013	15:17:41	1151	0.0	8.48	308.6				
11/03/2013	15:17:44	1152	0.0	8.48	308.6	test complete			
11/03/2013	15:17:58	1152	0.0	8.48	308.6	End Job			
11/03/2013	15:18:31	1154	0.0	8.48	308.6				
11/03/2013	15:19:21	2	0.0	8.48	308.6				

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3.9			6.3	77.0	0.0	32.8	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
5334	2	555	1448			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume
%	0.0 bbl		207.0 bbl	degF	<input type="checkbox"/>		bbl
Customer or Authorized Representative				Schlumberger Supervisor		Circulation Lost	
Mr. Steve Hitshew				Daniel Myers		<input type="checkbox"/>	
						Job Completed <input checked="" type="checkbox"/>	
						-	