



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1105559
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: _____



1105559

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Jennifer 3408 3-34H
Doc ID	1105559

All Electric Logs Run

Porosity
Resistivity
Mud Log
Boresight

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Well Name	Jennifer 3408 3-34H
Doc ID	1105559

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8604-8968	3773 bbls of water, 36 bbls acid, 75M lbs sand, 3809 TLTR	
5	8104-8488	4246 bbls of water, 36 bbls acid, 75M lbs sand, 8416 TLTR	
5	7598-8016	4457 bbls of water, 36 bbls acid, 75M lbs sand, 13054 TLTR	
5	7034-7384	4454 bbls of water, 36 bbls acid, 75M lbs sand, 17648 TLTR	
5	6602-6954	4087 bbls of water, 36 bbls acid, 75M lbs sand, 21892 TLTR	
5	6165-6517	3925 bbls of water, 36 bbls acid, 75M lbs sand, 25929 TLTR	
5	5732-6084	4174 bbls of water, 36 bbls acid, 77M lbs sand, 30205 TLTR	
5	5340-5647	4165 bbls of water, 36 bbls acid, 73M lbs sand, 34456 TLTR	
5	4940-5255	4094 bbls of water, 36 bbls acid, 74M lbs sand, 38608 TLTR	

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	744	Halliburton Extendacem and Swiftcem Systems	405	3% Calcium Chloride, .25 lbm Ply-E-Flake
Intermediate	8.75	7	26	5280	Halliburton Econocem and Halcem Systems	310	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Liner	6.12	4.5	11.6	9106	Halliburton Econocem System	500	.4% Halad(R)-9, 10 lbm Kol-seal, 2% Bentonite, .2% CFR-3

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

December 21, 2012

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

Re: ACO1
API 15-077-21897-01-00
Jennifer 3408 3-34H
SW/4 Sec.34-34S-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

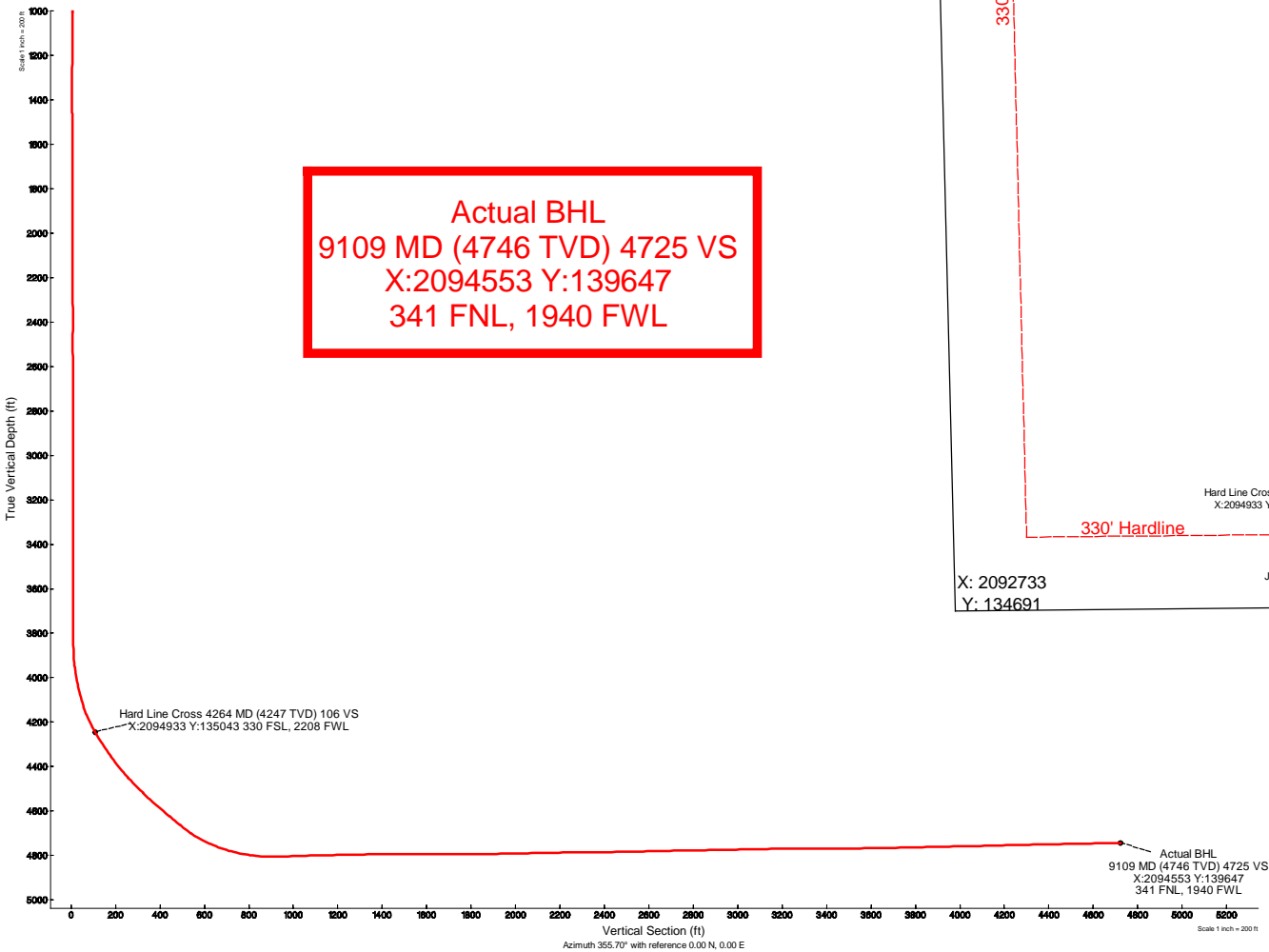
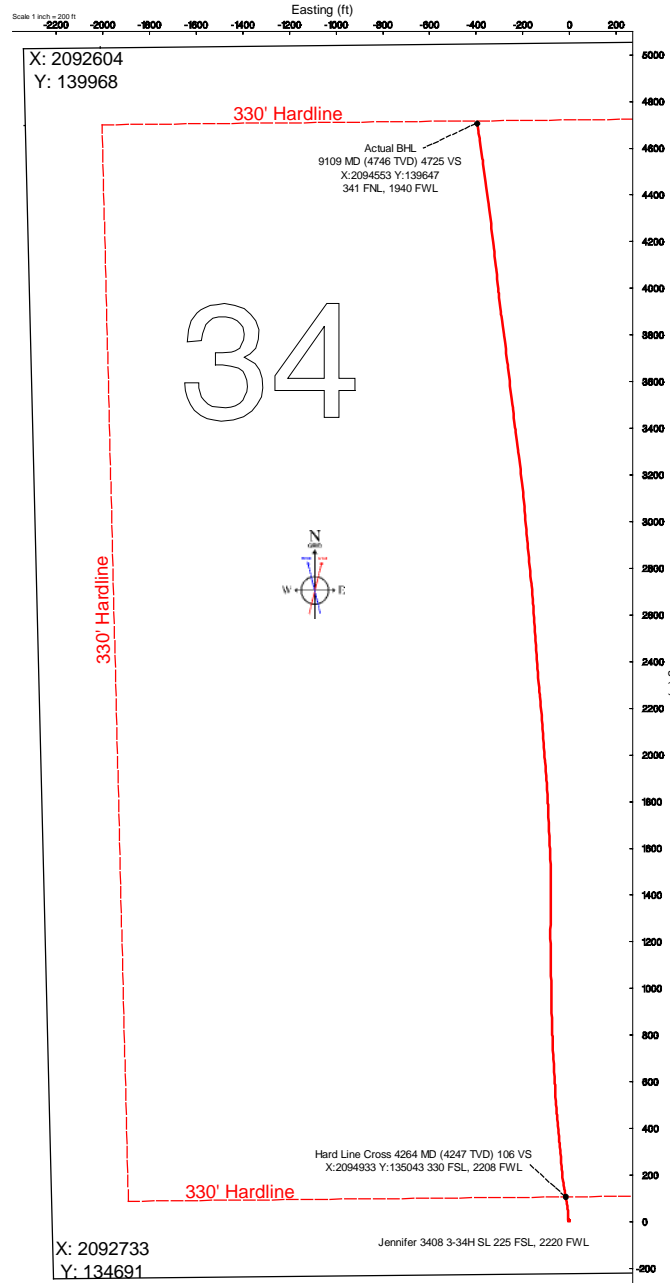
Sandridge Energy

Jennifer 3408 3-34H (Final)
 Jennifer 3408 3-34H SL 225 FSL, 2220 FWL
 Harper County, Kansas (Sandridge Energy) NAD27 / Grid

Plot reference wellpath is Plan 1	
True vertical depths are referenced to Unit 310 (KB)	Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet
Measured depths are referenced to Unit 310 (KB)	North Reference: Grid north
Unit 310 (KB) to Mean Sea Level: 1278 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Jennifer 3408 3-34H SL 225 FSL, 2220 FWL): -1263 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: broomart on 12/5/2012

Location Information

Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Jennifer 3408 3-34H Sec. 34-34S-8W		2094947.000	134938.000	37°02'12.470"N	98°10'29.075"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Jennifer 3408 3-34H SL 225 FSL, 2220 FWL	0.00	0.00	2094947.000	134938.000	37°02'12.470"N	98°10'29.075"W
Unit 310 (KB) to Mud line (At Slot: Jennifer 3408 3-34H SL 225 FSL, 2220 FWL)					15ft	
Mean Sea Level to Mud line (At Slot: Jennifer 3408 3-34H SL 225 FSL, 2220 FWL)					-1263ft	
Unit 310 (KB) to Mean Sea Level					1278ft	



REFERENCE WELLPATH IDENTIFICATION

Operator	Sandridge Energy	Slot	Jennifer 3408 3-34H SL 225 FSL, 2220 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Jennifer 3408 3-34H Actual
Facility	Jennifer 3408 3-34H Sec. 34-34S-8W		

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	0.20° East	User	Burnranj
Scale	1.00005	Report Generated	12/18/2012 at 10:52:54 AM
Wellbore last revised	12-05-2012	Database/Source file	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	2094947.00	134938.00	37°02'12.470"N	98°10'29.075"W
Facility Reference Pt			2094947.00	134938.00	37°02'12.470"N	98°10'29.075"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 310 (KB) to Facility Vertical Datum	15.00ft
Horizontal Reference Pt	Slot	Unit 310 (KB) to Mean Sea Level	1278.00ft
Vertical Reference Pt	Unit 310 (KB)	Unit 310 (KB) to Mud Line at Slot (Jennifer 3408 3-34H SL 225 FSL, 2220 FWL)	15.00ft
MD Reference Pt	Unit 310 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	355.70°



Actual Wellpath Report

Sandridge Jennifer 3408 3-34H_Final Surveys.
Page 2 of 5



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Facility	Jennifer 3408 3-34H Sec. 34-34S-8W		

WELLPATH DATA (124 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	6.280	0.00	0.00	0.00	0.00	2094947.00	134938.00	0.00	
15.00	0.000	6.280	15.00	0.00	0.00	0.00	2094947.00	134938.00	0.00	
250.00	0.300	6.280	250.00	0.60	0.61	0.07	2094947.07	134938.61	0.13	
500.00	0.300	6.280	500.00	1.89	1.91	0.21	2094947.21	134939.91	0.00	
744.00	0.300	6.280	743.99	3.15	3.18	0.35	2094947.35	134941.18	0.00	
817.00	0.170	6.280	816.99	3.44	3.48	0.38	2094947.38	134941.48	0.18	
909.00	0.190	225.610	908.99	3.48	3.51	0.29	2094947.29	134941.51	0.37	
1001.00	0.220	197.210	1000.99	3.22	3.23	0.13	2094947.13	134941.23	0.11	
1093.00	0.220	177.000	1092.99	2.87	2.89	0.08	2094947.08	134940.89	0.08	
1185.00	0.410	158.040	1184.99	2.38	2.41	0.22	2094947.22	134940.41	0.23	
1277.00	0.280	155.120	1276.99	1.86	1.90	0.43	2094947.43	134939.90	0.14	
1369.00	0.090	347.320	1368.99	1.72	1.76	0.51	2094947.51	134939.76	0.40	
1461.00	0.280	350.230	1460.99	2.02	2.06	0.46	2094947.46	134940.06	0.21	
1551.00	0.260	311.700	1550.99	2.38	2.41	0.27	2094947.27	134940.41	0.20	
1643.00	0.340	317.410	1642.98	2.75	2.75	-0.07	2094946.93	134940.75	0.09	
1735.00	0.330	354.980	1734.98	3.23	3.21	-0.28	2094946.72	134941.21	0.23	
1829.00	0.170	332.390	1828.98	3.62	3.61	-0.37	2094946.63	134941.61	0.20	
1924.00	0.160	181.010	1923.98	3.62	3.60	-0.43	2094946.57	134941.60	0.34	
2019.00	0.380	358.900	2018.98	3.80	3.78	-0.44	2094946.56	134941.78	0.57	
2114.00	0.230	324.480	2113.98	4.28	4.25	-0.56	2094946.44	134942.25	0.24	
2209.00	0.090	303.640	2208.98	4.49	4.45	-0.73	2094946.27	134942.45	0.16	
2304.00	0.330	298.310	2303.98	4.68	4.62	-1.04	2094945.96	134942.62	0.25	
2399.00	0.150	249.240	2398.98	4.80	4.70	-1.39	2094945.61	134942.71	0.27	
2493.00	0.070	187.980	2492.98	4.71	4.60	-1.52	2094945.48	134942.60	0.14	
2588.00	0.500	9.600	2587.98	5.05	4.96	-1.46	2094945.54	134942.96	0.60	
2683.00	0.070	310.010	2682.98	5.49	5.40	-1.43	2094945.57	134943.40	0.49	
2778.00	0.070	22.240	2777.98	5.59	5.49	-1.45	2094945.55	134943.49	0.09	
2873.00	0.290	126.770	2872.97	5.48	5.40	-1.24	2094945.76	134943.40	0.33	
2968.00	0.100	36.030	2967.97	5.39	5.33	-1.00	2094946.00	134943.33	0.32	
3063.00	0.300	278.320	3062.97	5.50	5.43	-1.19	2094945.81	134943.43	0.38	
3159.00	0.110	290.070	3158.97	5.60	5.50	-1.53	2094945.47	134943.50	0.20	
3254.00	0.190	145.430	3253.97	5.50	5.40	-1.53	2094945.47	134943.40	0.30	
3348.00	0.420	346.910	3347.97	5.70	5.61	-1.52	2094945.48	134943.61	0.64	
3443.00	0.220	270.500	3442.97	6.06	5.95	-1.78	2094945.22	134943.95	0.45	
3633.00	0.160	27.780	3632.97	6.32	6.18	-2.02	2094944.98	134944.18	0.17	
3728.00	0.360	356.530	3727.97	6.73	6.60	-1.97	2094945.03	134944.60	0.25	
3823.00	0.030	283.430	3822.97	7.03	6.90	-2.02	2094944.98	134944.90	0.37	
3886.00	1.440	338.870	3885.96	7.80	7.65	-2.32	2094944.68	134945.65	2.26	
3918.00	4.210	348.090	3917.92	9.35	9.17	-2.71	2094944.29	134947.17	8.74	
3949.00	6.970	352.700	3948.77	12.35	12.15	-3.18	2094943.82	134950.15	9.01	
3981.00	9.010	355.650	3980.46	16.80	16.57	-3.62	2094943.38	134954.58	6.50	
4012.00	11.130	357.170	4010.98	22.22	21.98	-3.95	2094943.05	134959.98	6.89	
4044.00	12.730	356.980	4042.29	28.83	28.59	-4.29	2094942.71	134966.59	5.00	
4076.00	14.240	356.810	4073.40	36.29	36.04	-4.69	2094942.31	134974.04	4.72	
4107.00	15.870	355.660	4103.34	44.34	44.07	-5.22	2094941.78	134982.08	5.35	

REFERENCE WELLPATH IDENTIFICATION

Operator	Sandridge Energy	Slot	Jennifer 3408 3-34H SL 225 FSL, 2220 FWL
Area	Kansas	Well	Subject
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Facility	Jennifer 3408 3-34H Sec. 34-34S-8W		

WELLPATH DATA (124 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
4139.00	18.400	354.750	4133.92	53.77	53.47	-6.02	2094940.98	134991.47	7.95	
4171.00	21.980	352.570	4163.94	64.80	64.44	-7.25	2094939.75	135002.44	11.43	
4202.00	24.510	351.120	4192.43	77.01	76.55	-9.00	2094938.00	135014.55	8.37	
4234.00	27.830	350.770	4221.14	91.07	90.48	-11.22	2094935.78	135028.49	10.39	
4264.00†	30.481	349.305	4247.34	105.61	104.87	-13.76	2094933.24	135042.88	9.15	Hard Line Cross 4264 MD (4247 TVD) 106 VS X:2094933 Y:135043 330 FSL, 2208 FWL
4265.00	30.570	349.260	4248.20	106.11	105.37	-13.85	2094933.15	135043.38	9.15	
4297.00	32.540	349.370	4275.47	122.76	121.83	-16.96	2094930.04	135059.83	6.16	
4329.00	33.480	349.490	4302.30	140.08	138.96	-20.15	2094926.85	135076.97	2.94	
4360.00	34.030	350.350	4328.08	157.22	155.92	-23.17	2094923.83	135093.93	2.35	
4392.00	35.470	351.950	4354.37	175.40	173.95	-25.97	2094921.03	135111.95	5.33	
4423.00	36.750	354.060	4379.41	193.65	192.08	-28.19	2094918.81	135130.09	5.76	
4455.00	38.350	355.450	4404.78	213.15	211.50	-29.97	2094917.03	135149.51	5.66	
4487.00	40.420	355.530	4429.51	233.45	231.74	-31.56	2094915.44	135169.75	6.47	
4518.00	42.750	355.570	4452.70	254.03	252.25	-33.16	2094913.84	135190.26	7.52	
4550.00	44.370	355.030	4475.89	276.08	274.23	-34.97	2094912.03	135212.24	5.19	
4582.00	45.000	354.800	4498.64	298.58	296.64	-36.96	2094910.04	135234.65	2.03	
4613.00	45.250	354.400	4520.51	320.54	318.51	-39.03	2094907.97	135256.53	1.22	
4645.00	47.080	354.970	4542.67	343.62	341.49	-41.16	2094905.83	135279.51	5.86	
4676.00	48.860	354.430	4563.43	366.64	364.42	-43.29	2094903.70	135302.44	5.89	
4771.00	50.260	354.480	4625.05	438.92	436.38	-50.28	2094896.72	135374.40	1.47	
4803.00	50.380	354.980	4645.48	463.55	460.91	-52.54	2094894.46	135398.93	1.26	
4834.00	50.610	355.890	4665.20	487.47	484.75	-54.44	2094892.55	135422.77	2.38	
4866.00	52.580	356.230	4685.08	512.54	509.76	-56.17	2094890.83	135447.79	6.21	
4898.00	55.830	356.660	4703.79	538.49	535.67	-57.77	2094889.22	135473.69	10.21	
4929.00	59.390	357.210	4720.40	564.66	561.80	-59.17	2094887.83	135499.83	11.58	
4961.00	63.050	357.010	4735.80	592.69	589.81	-60.59	2094886.41	135527.84	11.45	
4992.00	66.240	357.080	4749.07	620.69	617.78	-62.03	2094884.97	135555.81	10.29	
5024.00	68.260	356.360	4761.45	650.20	647.24	-63.72	2094883.28	135585.28	6.64	
5055.00	70.870	356.680	4772.27	679.24	676.24	-65.48	2094881.52	135614.27	8.47	
5087.00	74.420	356.820	4781.81	709.77	706.72	-67.21	2094879.78	135644.76	11.10	
5118.00	76.900	357.200	4789.49	739.80	736.72	-68.78	2094878.22	135674.75	8.09	
5150.00	79.440	357.270	4796.05	771.11	768.00	-70.29	2094876.71	135706.04	7.94	
5181.00	81.570	358.050	4801.17	801.66	798.54	-71.54	2094875.46	135736.59	7.31	
5213.00	84.110	358.150	4805.15	833.38	830.27	-72.59	2094874.41	135768.32	7.94	
5244.00	87.040	358.490	4807.55	864.25	861.17	-73.49	2094873.50	135799.21	9.51	
5280.00	90.620	358.310	4808.28	900.20	897.14	-74.50	2094872.50	135835.18	9.96	
5317.00	91.910	359.400	4807.46	937.13	934.12	-75.24	2094871.76	135872.17	4.56	
5412.00	91.880	359.090	4804.32	1031.90	1029.06	-76.49	2094870.51	135967.11	0.33	
5507.00	91.110	358.590	4801.84	1126.72	1124.01	-78.41	2094868.58	136062.06	0.97	
5602.00	91.140	359.840	4799.98	1221.52	1218.98	-79.71	2094867.28	136157.04	1.32	
5697.00	91.200	1.230	4798.04	1316.16	1313.95	-78.83	2094868.17	136252.02	1.46	
5792.00	90.620	0.130	4796.53	1410.79	1408.93	-77.70	2094869.30	136347.00	1.31	
5886.00	90.060	358.560	4795.97	1504.60	1502.92	-78.77	2094868.22	136441.00	1.77	
5981.00	89.540	357.600	4796.30	1599.51	1597.87	-81.96	2094865.04	136535.95	1.15	
6075.00	89.440	357.260	4797.14	1693.46	1691.77	-86.17	2094860.82	136629.85	0.38	

REFERENCE WELLPATH IDENTIFICATION

Operator	Sandridge Energy	Slot	Jennifer 3408 3-34H SL 225 FSL, 2220 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Jennifer 3408 3-34H Actual
Facility	Jennifer 3408 3-34H Sec. 34-34S-8W		

WELLPATH DATA (124 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
6170.00	90.490	357.460	4797.20	1788.42	1786.66	-90.55	2094856.45	136724.76	1.13	
6265.00	91.140	356.130	4795.85	1883.39	1881.50	-95.86	2094851.14	136819.60	1.56	
6360.00	90.980	354.950	4794.09	1978.38	1976.20	-103.24	2094843.75	136914.30	1.25	
6455.00	91.110	356.680	4792.36	2073.36	2070.93	-110.18	2094836.82	137009.03	1.83	
6550.00	91.360	354.870	4790.31	2168.33	2165.64	-117.17	2094829.82	137103.75	1.92	
6645.00	89.940	354.490	4789.23	2263.31	2260.22	-125.98	2094821.01	137198.34	1.55	
6740.00	91.170	355.640	4788.31	2358.29	2354.86	-134.15	2094812.84	137292.98	1.77	
6835.00	90.710	356.650	4786.75	2453.28	2449.63	-140.54	2094806.45	137387.76	1.17	
6930.00	91.450	355.910	4784.96	2548.25	2544.42	-146.70	2094800.29	137482.55	1.10	
7025.00	91.440	355.770	4782.57	2643.22	2639.14	-153.59	2094793.40	137577.27	0.15	
7120.00	90.520	354.620	4780.94	2738.20	2733.78	-161.55	2094785.45	137671.92	1.55	
7215.00	91.390	354.760	4779.36	2833.17	2828.36	-170.34	2094776.65	137766.51	0.93	
7310.00	90.930	354.470	4777.43	2928.14	2922.92	-179.25	2094767.74	137861.07	0.57	
7405.00	91.540	355.190	4775.39	3023.10	3017.51	-187.81	2094759.18	137955.67	0.99	
7501.00	90.770	354.660	4773.45	3119.07	3113.12	-196.30	2094750.69	138051.28	0.97	
7595.00	90.340	353.260	4772.54	3213.02	3206.59	-206.19	2094740.80	138144.75	1.56	
7690.00	90.090	352.470	4772.18	3307.90	3300.85	-217.99	2094729.00	138239.02	0.87	
7785.00	90.090	352.840	4772.04	3402.77	3395.07	-230.13	2094716.85	138333.25	0.39	
7880.00	90.810	353.230	4771.29	3497.66	3489.37	-241.65	2094705.33	138427.55	0.86	
7975.00	90.340	353.070	4770.34	3592.56	3583.68	-252.98	2094694.00	138521.87	0.52	
8064.00	91.550	353.590	4768.87	3681.47	3672.07	-263.32	2094683.67	138610.26	1.48	
8128.00	91.270	352.800	4767.29	3745.39	3735.60	-270.90	2094676.09	138673.79	1.31	
8191.00	91.460	352.190	4765.79	3808.28	3798.04	-279.13	2094667.86	138736.23	1.01	
8285.00	91.230	352.820	4763.59	3902.10	3891.21	-291.38	2094655.60	138829.41	0.71	
8380.00	91.040	353.900	4761.70	3997.01	3985.55	-302.37	2094644.62	138923.76	1.15	
8476.00	91.420	353.910	4759.64	4092.94	4080.99	-312.56	2094634.43	139019.20	0.40	
8570.00	91.510	353.150	4757.24	4186.84	4174.36	-323.15	2094623.84	139112.57	0.81	
8665.00	91.390	354.060	4754.84	4281.74	4268.74	-333.72	2094613.26	139206.95	0.97	
8760.00	91.050	352.610	4752.81	4376.64	4363.07	-344.75	2094602.23	139301.29	1.57	
8855.00	91.270	352.020	4750.89	4471.45	4457.20	-357.45	2094589.53	139395.42	0.66	
8950.00	91.040	352.120	4748.98	4566.24	4551.27	-370.55	2094576.43	139489.50	0.26	
9044.00	90.890	351.300	4747.39	4660.00	4644.27	-384.10	2094562.88	139582.51	0.89	
9066.00	90.830	350.990	4747.06	4681.93	4666.01	-387.49	2094559.49	139604.25	1.44	
9109.00	90.830	350.990	4746.44	4724.78	4708.47	-394.22	2094552.76	139646.71	0.00	Actual BHL 9109 MD (4746 TVD) 4725 VS X:2094553 Y:139647 341 FNL, 1940 FWL



Actual Wellpath Report

Sandridge Jennifer 3408 3-34H_Final Surveys.
Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Sandridge Energy	Slot	Jennifer 3408 3-34H SL 225 FSL, 2220 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Jennifer 3408 3-34H Actual
Facility	Jennifer 3408 3-34H Sec. 34-34S-8W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BHL 330 FNL, 1980' FWL		4742.38	4719.76	-354.98	2094592.00	139658.00	37°02'59.149"N	98°10'33.250"W	point

WELLPATH COMPOSITION - Ref Wellbore: Jennifer 3408 3-34H Actual Ref Wellpath: AWP - Final

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	744.00	Generic gyro - northseeking (Standard)	Gyro Surveys	Jennifer 3408 3-34H Actual
744.00	9066.00	NaviTrak (Standard)	INTEQ MWD	Jennifer 3408 3-34H Actual
9066.00	9109.00	Blind Drilling (std)	Projection to bit	Jennifer 3408 3-34H Actual



Invoice

P.O. Box 1570
Woodward, OK 73802

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

Date	Invoice #
12/3/2012	1591

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
Chuck Marbury	Net 45	12/3/2012	Jennifer 3408 3-34H, Harper Cnty, KS	Unit 310

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 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	10	Furnished grout and trucking to location
Grout Pump	1	Furnished grout pump
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: OC 12761
 Well Name: JENNIFER 3408 3-34H
 Code: 850.010
 Amount: 16,940.00
 Co. Man: SECRET SERVICE
 Co. Man Sig.: [Signature]
 Notes: _____

Subtotal	\$16,940.00
Sales Tax (0.0%)	\$0.00
Total	\$16,940.00

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2967958	Quote #:	Sales Order #: 900054643
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Jennifer 3408	Well #: 3-34H	API/UWI #: 15-077-21897	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 34 Township 34S Range 8W			
Contractor: Unit Drilling *		Rig/Platform Name/Num: Unit 310	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
OSBORN, JAMES David	6.5	518950	WALTON, SCOTTY Dwayne	6.5	478229	WELLMAN, KIMBERLY Kaye	2.5	530092

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-7-12	6.5	1						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	07 - Dec - 2012	10:00	CST
Form Type	BHST		Job Started	07 - Dec - 2012	14:00	CST
Job depth MD	765. ft	Job Depth TVD	Job Completed	07 - Dec - 2012	18:08	CST
Water Depth		Wk Ht Above Floor	Departed Loc	07 - Dec - 2012	18:52	CST
Perforation Depth (MD)	From	To			20:30	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25				80.	765.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	765.		
Preset Conductor	Unknown		20.	19.124	94.			.	80.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0		
2	halliburton light standard	EXTENDACEM (TM) SYSTEM (452981)	210.0	sacks	12.4	2.11	11.57		11.57	
3 %		CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
0.25 lbm		POLY-E-FLAKE (101216940)								
11.571 Gal		FRESH WATER								
3	Standard	SWIFTCEM (TM) SYSTEM (452990)	195.0	sacks	15.6	1.2	5.32		5.32	
2 %		CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
0.125 lbm		POLY-E-FLAKE (101216940)								
5.319 Gal		FRESH WATER								
4	Displacement		56.00	bbl	8.33	.0	.0	.0		
Calculated Values		Pressures			Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns	50	Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2967958	Quote #:	Sales Order #: 900067898
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Jennifer 3408		Well #: 3-34H	API/UWI #: 15-077-21897
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 34 Township 34S Range 8W			
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: WOODROW, JOHN	MBU ID Emp #: 105848

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
RIVERA, JESUSA Eloisa	12	528776	SMITH, THOMAS Miles	12	493032	WOODROW, JOHN Phillip	12	105848

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025029	100 mile	10804565	100 mile	11706677	100 mile	11844150	100 mile
11923804	100 mile	12079048	100 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/12/12	8	3						
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	Bottom	Called Out	11 - Dec - 2012 23:30 CST
Form Type	BHST	On Location	12 - Dec - 2012 05:00 CST
Job depth MD 5210. ft	Job Depth TVD 5210. ft	Job Started	12 - Dec - 2012 09:26 CST
Water Depth	Wk Ht Above Floor 10. ft	Job Completed	12 - Dec - 2012 11:10 CST
Perforation Depth (MD) From	To	Departed Loc	12 - Dec - 2012 00:00 CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8.75" Open Hole			8.75					765.	5245.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5245.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	765.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

Stage/Plug #: 1

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Water		30.00	bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD W/2% EXTRA GEL	ECONOCEM (TM) SYSTEM (452992)	120.0	sacks	13.6	1.53	7.32		7.32
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.321 Gal	FRESH WATER							
3	PREMIUM	HALCEM (TM) SYSTEM (452986)	190.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		200.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2967958	Quote #:	Sales Order #: 900079578
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Jennifer 3408		Well #: 3-34H	API/UWI #: 15-077-21897
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 34 Township 34S Range 8W			
Contractor: UNIT DRILLING		Rig/Platform Name/Num: 310	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: NGUYEN, VINH		Srvc Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CRAWFORD, ANDREW B	3	480612	GILLIAM, KEVIN S	11	493325	OSBORN, JAMES David	11	518950
STILL, ERIC Dean	3	523897	UNDERWOOD, BILLY Dale	3	159068	WALLS, JAMES Richard	11	396166
WALTON, SCOTTY Dwayne	11	478229						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-17-12	11	2						
TOTAL	<i>Total is the sum of each column separately</i>							

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
				BHST	9116. ft	5245. ft					16 - Dec - 2012	22:00	CST	
				138 degF							17 - Dec - 2012	01:30	CST	
											17 - Dec - 2012	10:05	CST	
											17 - Dec - 2012	11:17	CST	
											17 - Dec - 2012	12:30	CST	

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
6.125" Open Hole				6.125				5245.	9155.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	4801.	9155.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5245.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	4801.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Water		30.00	bbl	8.5	.0	.0	.0	
2	50/50 STANDARD W/ 2% EXTRA GEL	ECONOCEM (TM) SYSTEM (452992)	500.0	sacks	13.6	1.58	6.92		6.92
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	10 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	6.92 Gal	FRESH WATER							
3	Displacement		118.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

Section 28
34S 8W

Section 27
34S 8W

1931' FWL

322' FNL

BHL: 9109'
-98.176375 37.049756

Bottom Perf: 8604'
-98.176173 37.048548

Section 33
34S 8W

Section 34
34S 8W

Top Perf: 8604'
-98.175281 37.038442

Miss Entry: 4918'
-98.175276 37.038365

MACY 2-34 SWD

MACY 1-34 SWD

JENNIFER 1-34H

JENNIFER 3408 3-34H

JENNIFER 3408 2-34H

Section 4
35S 8W

Section 3
35S 8W



Actual Bottom-Hole Location of Jennifer 3408 3-34H
Harper County, Kansas

T&R: 34S 8W
Section: 34, 1931' FWL & 322' FNL
Long/Lat:-98.176375 37.049756

1 in = 646 ft

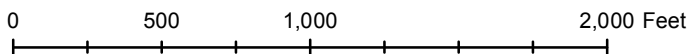


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 3/25/2013

Drawing Name/Number:

Addendum_Jennifer_3-34H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 04/01/013 11:01 am	Frac Disclosure uploaded to FracFocus
Tiffany Golay 03/14/013 10:37 am	Additional Fluid Mgmt Info: 8600 bbls soil farmed by BlackRock Services, 34-34N-8W, Garfield, OK, 12-22019

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	1/11/2013
State:	KS
County:	Harper
API Number:	15-077-21897
Operator Name:	SandRidge Expl. & Prod. LLC
Well Name and Number:	Jennifer 3408 3-34H
Longitude:	-98.1747
Latitude:	37.0367
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	4,746
Total Water Volume (gal)*:	1,621,536

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	100.00%	94.23239%	
NES-1	Archer	Surfactant	Water	7732-18-5	60.00%	0.02664%	
			Nonyl Phenol, 4 mol	104-40-5	10.00%	0.00444%	
			Isopropanol	67-63-0	10.00%	0.00444%	
			Trade Secret	PROPRIETARY	40.00%	0.01776%	
			Methanol	67-56-1	10.00%	0.00444%	
15% HCL	Archer	Acid	Hydrogen Chloride	7647-01-0	37.00%	0.35034%	
			Water	7732-18-5	74.00%	0.70068%	
Ahib-160	Archer	Corrosion Inhibitor	Methl Alcohol	67-56-1	100.00%	0.00135%	
			Propargyl alcohol	107-19-7	4.00%	0.00005%	
FeAg-L	Archer	Liquid Citric Iron Sequester	Acetic Acid	64-19-7	50.00%	0.00233%	
			Citric Acid	77-92-9	30.00%	0.00140%	
FRW-1	Archer	Friction Reducer	Petroleum Distillate	64742-47-8	30.00%	0.01634%	
40/70 Northeast Genoa	Archer	Propant	Silica, Quartz	14808-60-7	99.90%	4.69369%	
Soda Ash	Archer	pH Adjuster	Sodium Carbonate	497-19-8	NA	0.00070%	

