

1163075

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	4J Ranch 3408 4-33H
Doc ID	1163075

All Electric Logs Run

Boresight
Prizm
Porosity
Resistivity
Mud Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	4J Ranch 3408 4-33H
Doc ID	1163075

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8923-9150	1500 gals 15% HCL, 6372 bbls slickwater, TLTR 6622 bbls	
5	8533-8856	1500 gals 15% HCL, 6077 bbls slickwater, TLTR 12885 bbls	
5	8148-8464	1500 gals 15% HCL, 6138 bbls slickwater, TLTR 19151 bbls	
5	7758-7968	1500 gals 15% HCL, 6222 bbls slickwater, TLTR 25274 bbls	
5	7404-7690	1500 gals 15% HCL, 6149 bbls slickwater, TLTR 31363 bbls	
5	6988-7322	1500 gals 15% HCL, 6035 bbls slickwater, TLTR 37141 bbls	
5	6623-6930	1500 gals 15% HCL, 6111 bbls slickwater, TLTR 43318 bbls	
5	6223-6522	1500 gals 15% HCL, 6080 bbls slickwater, TLTR 49288 bbls	
5	5873-6144	1500 gals 15% HCL, 5856 bbls slickwater, TLTR 54992 bbls	
5	5500-5775	1500 gals 15% HCL, 6254 bbls slickwater, TLTR 61233 bbls	

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5073-5275	1500 gals 15% HCL, 4028 bbls slickwater, TLTR 65261 bbls	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 15, 2013

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

Re: ACO1
API 15-077-21969-01-00
4J Ranch 3408 4-33H
SE/4 Sec.33-34S-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



Actual Wellpath Report

Sandridge 4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)_Final Survey
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)
Area	Kansas	Well	SL (225 FSL, 660 FWL) Sec 33
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual
Facility	4J Ranch 3408 4-33H Sec 33-34S-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	0.19° East	User	Potepat
Scale	1.00005	Report Generated	10/17/2013 at 12:21:10 PM
Wellbore last revised	09-30-2013	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	2092068.00	134911.00	37°02'12.301"N	98°11'04.580"W
Facility Reference Pt			2092068.00	134911.00	37°02'12.301"N	98°11'04.580"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 (RKB) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Unit 310 (RKB) to Mean Sea Level	1268.00ft
Vertical Reference Pt	Unit 310 (RKB)	Unit 310 (RKB) to Mud Line at Slot (4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310))	18.00ft
MD Reference Pt	Unit 310 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	358.62°



Actual Wellpath Report

Sandridge 4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)_Final Surve
Page n of nn



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WELLPATH DATA (127 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	90.630	0.00	0.00	0.00	0.00	2092068.00	134911.00	0.00	
18.00	0.000	90.630	18.00	0.00	0.00	0.00	2092068.00	134911.00	0.00	
250.00	1.500	90.630	249.97	-0.11	-0.03	3.04	2092071.04	134910.97	0.65	
786.00	0.800	90.630	785.86	-0.48	-0.15	13.79	2092081.79	134910.85	0.13	
881.00	0.230	90.630	880.86	-0.51	-0.16	14.65	2092082.65	134910.84	0.60	
1255.00	0.810	250.560	1254.85	-1.36	-1.05	12.90	2092080.91	134909.95	0.28	
1631.00	0.590	123.000	1630.83	-3.28	-2.99	12.02	2092080.02	134908.01	0.34	
2106.00	0.180	22.790	2105.83	-3.98	-3.63	14.36	2092082.36	134907.37	0.14	
2169.00	0.360	128.550	2168.83	-4.01	-3.66	14.56	2092082.56	134907.34	0.70	
2201.00	1.110	176.830	2200.82	-4.39	-4.04	14.65	2092082.65	134906.96	2.85	
2233.00	1.830	188.300	2232.81	-5.20	-4.85	14.59	2092082.60	134906.15	2.42	
2264.00	2.240	187.830	2263.79	-6.29	-5.94	14.44	2092082.44	134905.06	1.32	
2296.00	2.880	185.850	2295.76	-7.70	-7.36	14.27	2092082.27	134903.64	2.02	
2327.00	3.450	188.480	2326.71	-9.39	-9.06	14.06	2092082.06	134901.94	1.90	
2359.00	3.890	188.450	2358.65	-11.41	-11.08	13.76	2092081.76	134899.92	1.38	
2391.00	4.130	182.430	2390.57	-13.63	-13.31	13.55	2092081.55	134897.69	1.51	
2422.00	4.260	176.820	2421.49	-15.90	-15.57	13.56	2092081.56	134895.43	1.39	
2454.00	4.290	175.840	2453.40	-18.28	-17.95	13.72	2092081.72	134893.04	0.25	
2486.00	4.770	174.560	2485.30	-20.80	-20.47	13.93	2092081.93	134890.53	1.53	
2517.00	5.080	169.410	2516.18	-23.44	-23.10	14.30	2092082.30	134887.89	1.74	
2549.00	5.410	166.550	2548.05	-26.32	-25.96	14.91	2092082.92	134885.03	1.32	
2581.00	5.850	166.870	2579.89	-29.39	-29.02	15.64	2092083.64	134881.98	1.38	
2612.00	6.270	164.980	2610.72	-32.58	-32.19	16.43	2092084.43	134878.80	1.50	
2675.00	7.030	171.260	2673.30	-39.75	-39.33	17.91	2092085.91	134871.67	1.67	
2738.00	7.210	173.970	2735.81	-47.51	-47.07	18.91	2092086.91	134863.93	0.60	
2770.00	7.130	172.990	2767.56	-51.49	-51.04	19.37	2092087.37	134859.96	0.46	
2865.00	7.390	177.970	2861.80	-63.47	-62.99	20.30	2092088.30	134848.00	0.72	
2927.00	7.270	177.680	2923.29	-71.38	-70.90	20.60	2092088.60	134840.10	0.20	
2959.00	7.130	176.570	2955.04	-75.38	-74.90	20.80	2092088.80	134836.09	0.62	
3054.00	5.560	174.690	3049.46	-85.87	-85.37	21.58	2092089.58	134825.62	1.67	
3149.00	5.260	181.800	3144.03	-94.81	-94.31	21.87	2092089.87	134816.69	0.77	
3244.00	5.450	185.760	3238.62	-103.63	-103.15	21.28	2092089.28	134807.85	0.44	
3276.00	5.710	185.550	3270.47	-106.72	-106.25	20.97	2092088.97	134804.75	0.82	
3339.00	5.630	185.630	3333.16	-112.90	-112.44	20.37	2092088.37	134798.55	0.13	
3434.00	4.360	177.970	3427.80	-121.14	-120.69	20.04	2092088.04	134790.31	1.51	
3529.00	3.880	175.010	3522.55	-127.95	-127.50	20.45	2092088.45	134783.50	0.55	
3624.00	3.360	173.300	3617.36	-133.93	-133.46	21.05	2092089.05	134777.53	0.56	
3719.00	2.870	165.560	3712.22	-139.02	-138.53	21.97	2092089.97	134772.46	0.68	
3814.00	2.140	170.460	3807.13	-143.10	-142.59	22.86	2092090.86	134768.41	0.80	
3909.00	2.010	188.260	3902.07	-146.49	-145.98	22.91	2092090.91	134765.01	0.69	
3940.00	1.730	189.730	3933.05	-147.49	-146.98	22.75	2092090.75	134764.01	0.92	
3972.00	0.220	257.900	3965.05	-147.97	-147.47	22.61	2092090.61	134763.52	5.19	
4003.00	1.950	2.340	3996.04	-147.46	-146.96	22.57	2092090.58	134764.04	6.50	
4035.00	4.130	0.940	4028.00	-145.76	-145.26	22.62	2092090.62	134765.73	6.82	
4067.00	5.920	356.720	4059.87	-142.96	-142.46	22.54	2092090.54	134768.53	5.71	



Actual Wellpath Report

Sandridge 4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)_Final Surve

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Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual
Facility	4J Ranch 3408 4-33H Sec 33-34S-8W		

WELLPATH DATA (127 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
4098.00	7.790	356.270	4090.65	-139.27	-138.77	22.31	2092090.31	134772.23	6.03	
4130.00	10.120	357.670	4122.26	-134.29	-133.79	22.06	2092090.06	134777.20	7.31	
4161.00	12.800	357.490	4152.64	-128.13	-127.64	21.80	2092089.80	134783.35	8.65	
4193.00	15.370	359.110	4183.67	-120.34	-119.86	21.57	2092089.58	134791.14	8.12	
4224.00	18.590	359.610	4213.32	-111.29	-110.81	21.48	2092089.48	134800.19	10.40	
4256.00	21.420	359.580	4243.38	-100.35	-99.86	21.40	2092089.40	134811.13	8.84	
4287.00	24.170	358.960	4271.96	-88.34	-87.85	21.24	2092089.24	134823.14	8.90	
4319.00	26.190	358.600	4300.92	-74.73	-74.24	20.95	2092088.95	134836.75	6.33	
4350.00	28.690	358.620	4328.43	-60.44	-59.96	20.60	2092088.61	134851.04	8.06	
4382.00	31.000	358.760	4356.18	-44.52	-44.04	20.24	2092088.24	134866.96	7.22	
4414.00	33.760	357.870	4383.20	-27.38	-26.91	19.73	2092087.73	134884.08	8.75	
4445.00	36.640	356.980	4408.53	-9.52	-9.07	18.92	2092086.93	134901.93	9.44	
4477.00	38.560	357.090	4433.88	10.00	10.43	17.91	2092085.92	134921.43	6.00	
4508.00	40.070	356.780	4457.87	29.63	30.04	16.86	2092084.86	134941.05	4.91	
4540.00	41.880	355.680	4482.03	50.59	50.98	15.48	2092083.48	134961.98	6.09	
4572.00	44.880	355.090	4505.28	72.53	72.89	13.71	2092081.71	134983.89	9.46	
4603.00	47.950	356.100	4526.65	94.95	95.27	11.99	2092079.99	135006.28	10.18	
4616.00†	49.080	355.375	4535.26	104.68	104.98	11.27	2092079.27	135015.99	9.64	Hardline Crossed @ 4616' MD 330' FSL, 702' FEL
4635.00	50.740	354.360	4547.50	119.18	119.46	9.96	2092077.96	135030.46	9.64	
4667.00	51.590	355.410	4567.56	144.06	144.29	7.74	2092075.74	135055.29	3.69	
4698.00	52.710	357.400	4586.59	168.51	168.71	6.21	2092074.21	135079.72	6.22	
4730.00	55.500	358.350	4605.35	194.43	194.62	5.25	2092073.25	135105.63	9.04	
4762.00	57.970	359.310	4622.90	221.19	221.36	4.71	2092072.71	135132.38	8.12	
4793.00	60.810	0.490	4638.68	247.86	248.04	4.67	2092072.67	135159.05	9.73	
4825.00	63.490	1.060	4653.63	276.13	276.33	5.05	2092073.05	135187.34	8.52	
4856.00	66.030	1.530	4666.85	304.13	304.36	5.69	2092073.69	135215.38	8.31	
4888.00	69.480	1.070	4678.96	333.72	333.97	6.36	2092074.36	135244.98	10.86	
4919.00	72.600	0.370	4689.03	363.01	363.28	6.72	2092074.73	135274.30	10.29	
4951.00	75.840	358.890	4697.73	393.79	394.07	6.52	2092074.52	135305.09	11.06	
4982.00	78.600	357.920	4704.59	424.02	424.28	5.68	2092073.68	135335.30	9.41	
5014.00	80.380	357.270	4710.43	455.48	455.72	4.36	2092072.36	135366.74	5.91	
5046.00	81.640	357.350	4715.43	487.08	487.29	2.88	2092070.88	135398.31	3.95	
5095.00	84.430	357.960	4721.37	535.70	535.88	0.89	2092068.89	135446.91	5.83	
5141.00	85.240	357.330	4725.51	581.51	581.65	-1.00	2092067.00	135492.68	2.23	
5188.00	86.300	357.280	4728.98	628.37	628.47	-3.20	2092064.80	135539.51	2.26	
5236.00	87.140	357.560	4731.72	676.28	676.35	-5.36	2092062.64	135587.38	1.84	
5330.00	88.860	357.450	4735.00	770.20	770.20	-9.45	2092058.55	135681.24	1.83	
5421.00	90.650	356.740	4735.39	861.16	861.07	-14.06	2092053.94	135772.12	2.12	
5523.00	91.380	355.930	4733.58	963.06	962.85	-20.58	2092047.42	135873.90	1.07	
5554.00	91.290	355.710	4732.86	994.02	993.76	-22.84	2092045.16	135904.81	0.77	
5586.00	90.830	356.130	4732.27	1025.98	1025.67	-25.11	2092042.89	135936.72	1.95	
5618.00	90.770	356.680	4731.82	1057.95	1057.60	-27.12	2092040.88	135968.66	1.73	
5681.00	90.370	357.170	4731.20	1120.92	1120.51	-30.50	2092037.50	136031.57	1.00	
5744.00	90.650	356.840	4730.64	1183.89	1183.42	-33.79	2092034.21	136094.48	0.69	
5807.00	92.120	356.570	4729.11	1246.84	1246.30	-37.41	2092030.59	136157.36	2.37	



Actual Wellpath Report

Sandridge 4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)_Final Survey

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5902.00	91.390	356.830	4726.20	1341.74	1341.09	-42.87	2092025.12	136252.16	0.82	
5997.00	90.370	356.850	4724.75	1436.68	1435.94	-48.11	2092019.89	136347.01	1.07	
6092.00	89.600	355.760	4724.77	1531.60	1530.74	-54.23	2092013.76	136441.82	1.40	
6187.00	90.620	356.770	4724.59	1626.52	1625.53	-60.42	2092007.58	136536.62	1.51	
6281.00	90.310	356.830	4723.82	1720.47	1719.38	-65.67	2092002.33	136630.47	0.34	
6376.00	91.450	357.390	4722.37	1815.42	1814.25	-70.46	2091997.54	136725.34	1.34	
6471.00	90.520	357.690	4720.73	1910.39	1909.15	-74.53	2091993.46	136820.25	1.03	
6567.00	90.710	357.120	4719.70	2006.36	2005.04	-78.88	2091989.12	136916.15	0.63	
6662.00	90.950	358.490	4718.33	2101.34	2099.96	-82.52	2091985.48	137011.07	1.46	
6757.00	90.220	359.750	4717.36	2196.33	2194.94	-83.98	2091984.02	137106.05	1.53	
6852.00	90.490	358.580	4716.77	2291.32	2289.93	-85.36	2091982.63	137201.05	1.26	
6946.00	91.690	0.110	4714.98	2385.29	2383.90	-86.44	2091981.56	137295.02	2.07	
7041.00	91.420	359.490	4712.40	2480.24	2478.86	-86.77	2091981.23	137389.99	0.71	
7136.00	91.350	358.950	4710.11	2575.20	2573.83	-88.06	2091979.93	137484.96	0.57	
7231.00	91.350	358.070	4707.87	2670.18	2668.77	-90.53	2091977.46	137579.91	0.93	
7326.00	90.430	359.460	4706.39	2765.16	2763.73	-92.58	2091975.42	137674.87	1.75	
7421.00	89.720	359.190	4706.27	2860.15	2858.72	-93.70	2091974.30	137769.87	0.80	
7516.00	89.910	358.810	4706.57	2955.15	2953.71	-95.35	2091972.64	137864.86	0.45	
7611.00	90.150	358.730	4706.52	3050.15	3048.69	-97.39	2091970.60	137959.84	0.27	
7706.00	90.620	359.680	4705.89	3145.14	3143.67	-98.71	2091969.28	138054.84	1.12	
7801.00	90.590	357.500	4704.88	3240.13	3238.63	-101.05	2091966.95	138149.80	2.29	
7896.00	90.400	358.170	4704.06	3335.12	3333.56	-104.64	2091963.36	138244.73	0.73	
7990.00	90.830	359.370	4703.05	3429.11	3427.53	-106.66	2091961.34	138338.71	1.36	
8086.00	90.740	358.320	4701.74	3525.10	3523.50	-108.59	2091959.40	138434.68	1.10	
8181.00	90.740	357.850	4700.51	3620.09	3618.44	-111.77	2091956.23	138529.63	0.49	
8275.00	90.430	357.800	4699.55	3714.07	3712.37	-115.33	2091952.66	138623.56	0.33	
8370.00	88.740	358.450	4700.24	3809.06	3807.31	-118.44	2091949.55	138718.51	1.91	
8465.00	89.080	358.630	4702.05	3904.04	3902.26	-120.86	2091947.13	138813.46	0.40	
8560.00	88.520	356.350	4704.04	3999.00	3997.15	-125.02	2091942.97	138908.35	2.47	
8654.00	88.460	358.000	4706.51	4092.93	4091.00	-129.65	2091938.34	139002.21	1.76	
8749.00	88.430	357.840	4709.09	4187.89	4185.90	-133.10	2091934.90	139097.11	0.17	
8844.00	89.510	357.900	4710.80	4282.87	4280.82	-136.63	2091931.37	139192.03	1.14	
8938.00	89.230	357.510	4711.83	4376.85	4374.73	-140.39	2091927.60	139285.96	0.51	
9033.00	89.780	357.010	4712.65	4471.82	4469.62	-144.93	2091923.06	139380.85	0.78	
9128.00	89.810	357.070	4712.99	4566.78	4564.49	-149.84	2091918.15	139475.73	0.07	
9223.00	90.370	356.940	4712.84	4661.74	4659.36	-154.80	2091913.19	139570.60	0.61	
9280.00	90.370	356.940	4712.48	4718.72	4716.28	-157.84	2091910.15	139627.52	0.00	Actual BHL 9280' MD (4712' TVD) X: 2091910 Y: 139628 337' FNL 702' FEL



Actual Wellpath Report

Sandridge 4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)_Final Survey

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310)
Area	Kansas	Well	SL (225 FSL, 660 FWL) Sec 33
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual
Facility	4J Ranch 3408 4-33H Sec 33-34S-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, 660 FEL		4680.80	4723.76	-113.99	2091954.00	139635.00	37°02'59.011"N	98°11'05.789"W	point

WELLPATH COMPOSITION - Ref Wellbore: 4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual Ref Wellpath: AWP (Final)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	881.00	Drift Indicator (Standard)	Drift indicator	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual
881.00	9223.00	NaviTrak (Standard)	Navitrak	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual
9223.00	9280.00	Blind Drilling (std)	Projection to bit	4J Ranch 3408 4-33H Sec 33-34S-8W (Unit 310) Actual

Section 28
34S 8W

Section 27
34S 8W

366' FNL 841' FEL

BHL: 9280'
-98.185869 37.049589

Bottom Perf: 8923'
-98.185781 37.048661

Harper County

Section 33
34S 8W

Section 34
34S 8W

Top Perf: 5073'
-98.184987 37.03823

Miss Entry: 4965'
-98.184957 37.037845

MACY 2-34 SWD

4J RANCH 3408 3-33H

4J RANCH 3408 1-33H

4J RANCH 3408 4-33H

MACY 1-34 SWD

JENNIFER 1-34H

Section 4
35S 8W

Section 3
35S 8W



Actual Bottom-Hole Location of 4J Ranch 3408 4-33H
Harper County, Kansas
T&R: 34S 8W
Section: 33, 841' FEL & 366' FNL
-98.185869 37.049589

1 in = 667 ft

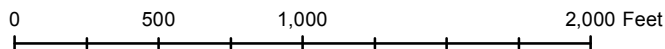


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 1/8/2014

Drawing Name/Number:

Addendum_4J Ranch 3408 4-33H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502



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

TICKET

TICKET NUMBER: WY-115-1
 TICKET DATE: 09/21/2013

ELECTRONIC

SANDRIDGE ENERGY
 ***** DO NOT MAIL!!! *****
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: 4J Ranch 3408
 WELL#: 4-33H
 RIG #: Unit 310
 Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
9/19-21/2013 DRILLED 30" CONDUCTOR HOLE			
9/19-21/2013 20" CONDUCTOR PIPE (.250 WALL)			
9/19-21/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
9/19-21/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
9/19-21/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
9/19-21/2013 16" CONDUCTOR PIPE (.250 WALL)			
9/19-21/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
9/19-21/2013 WELDING SERVICES FOR PIPE & LIDS			
9/19-21/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
9/19-21/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
9/19-21/2013 18 YDS OF 10 SACK GROUT			
9/19-21/2013 TAXABLE ITEMS			5,880.00
9/19-21/2013 BID - TAXABLE ITEMS			11,070.00
		Sub Total:	16,950.00
		Tax HARPER COUNTY (6.3 %):	370.44
		TICKET TOTAL:	<u>\$ 17,320.44</u>

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature _____

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OCT 10 2013

HALLIBURTONREGULATORY DEPT
SANDRIDGE ENERGY**Cementing Job Summary***The Road to Excellence Starts with Safety*

Sold To #: 305021	Ship To #: 3109215	Quote #:	Sales Order #: 900787571
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: 4J Ranch 3408	Well #: 4-33H	API/UWI #: 15-077-21969	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 33 Township 34S Range 8W			
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY		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 #
CHAMBERS, ANDREW Frank	8.0	544914	HILL, RICKEY Lester	8.0	457261	TOPE, GEOFFREY Daniel	8.0	489420
WALTON, SCOTTY Dwayne	8.0	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
10-1-13	8	2.5						
TOTAL			<i>Total is the sum of each column separately</i>					

Job**Job Times**

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	01 - Oct - 2013	04:00	CST
Job depth MD	800. ft	Job Depth TVD	Job Started	01 - Oct - 2013	09:37	CST
Water Depth		Wk Ht Above Floor	Job Completed	01 - Oct - 2013	10:22	CST
Perforation Depth (MD) From		To	Departed Loc	01 - Oct - 2013	12:00	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
12.25" Open Hole				12.25				80.	800.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		800.		
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

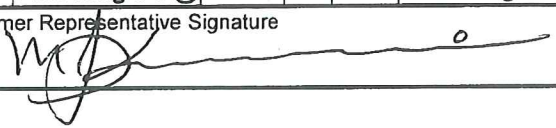
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

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	

HALLIBURTON

Cementing Job Summary

1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	250.0	sacks	12.4	2.12	11.68		11.68
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.681 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	150.0	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		57.00	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	42	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	10	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					
									

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3109215	Quote #:	Sales Order #: 900787571
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: 4J Ranch 3408	Well #: 4-33H	API/UWI #: 15-077-21969	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 33 Township 34S Range 8W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: UNIT	Rig/Platform Name/Num: 310		Ticket Amount:
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: FRENCH, JEREMY	Srvc Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/01/2013 00:00							Scotty Walton, Andrew Chambers, Ricky Hill, Geoffry Tope
Pre-Convoy Safety Meeting	10/01/2013 00:45							Scotty Walton, Andrew Chambers, Ricky Hill, Geoffry Tope
Depart from Service Center or Other Site	10/01/2013 01:00							
Arrive At Loc	10/01/2013 04:00							Arrived at Location Safely, Went over job procedures, calculations, and safety hazards.(Well TD 786ft, Total Casing 790.03ft, Shoe 46.06ft, 8.4ppg Mud, Running Casing With Full Returns)
Assessment Of Location Safety Meeting	10/01/2013 04:10							Identified all Potential hazards and Safe Work Zones
Pre-Rig Up Safety Meeting	10/01/2013 04:20							All HES Personell Present (watch for trip hazards, low lite areas, pinch points , confined spaces, and wear all appropriate PPE)
Rig-Up Equipment	10/01/2013 04:30							
Rig-Up Completed	10/01/2013 05:30							Rig Up Completed Safely
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

HALLIBURTON

Cementing Job Log

Pre-Job Safety Meeting	10/01/2013 09:00							All HES, Customer Rep., and Rig Crew Present (Went over dangers of being near pressurized lines, PPE, Pumping Procedures, heat stress and safe zones, muster point, and nearest hospital)
Pressure Test	10/01/2013 09:37							Test Lines to 3000PSI (Rig Floor Clear, and Pumping Equipment area Clear, 9.625" 36# J-55 Casing Burst at 80% 3520*.8= 2816PSI Max Pressure)
Pump Spacer	10/01/2013 09:39		5	10	0		60.0	Pump 10BBL of Freshwater Spacer
Pump Lead Cement	10/01/2013 09:42		5	94	0		120.0	Pump 94.4BBL of 12.4PPG Halliburton Light Standard Cement (250 Sacks 2.12ft3/sk, 11.68gal/sk)(250sks*2.12ft3/sk= 530ft3* .1781 bbl/ft3= 77.03BBL) Calculated HOLC 1157279ft, TOLC Surface
Pump Tail Cement	10/01/2013 10:02		5	32	0		85.0	Pump 32.1BBL of 15.6PPG Halliburton Standard Cement (150 Sacks 1.2ft3/sk, 5.32gal/sk)(150sks*1.2ft3/sk= 180ft3 * .1781bbl/ft3= 32.1BBL) Calculated HOTC 510ft, TOTC 279ft
Shutdown	10/01/2013 10:09		0	32	32		.0	Pumping Cement Completed
Drop Top Plug	10/01/2013 10:10							Plug Left Cementing Head
Pump Displacement	10/01/2013 10:11		6	57	0		240.0	Started Displacement Pumping 5BPM (Disp: 743.97ft* .0773bbl/ft= 57.51bbl)
Slow Rate	10/01/2013 10:19		3	57	47		210.0	Slowed Rate to Bump Plug
Bump Plug	10/01/2013 10:21		3	57	57		1200.0	Bumped Plug 1000Psi Over Pumping Pressure
Check Floats	10/01/2013 10:22		0	57	57		.0	Floats Held, 42BBL Cement Returned To Surface

Sold To # : 305021

Ship To # :3109215

Quote # :

Sales Order # : 900787571

SUMMIT Version: 7.3.0106

Tuesday, October 01, 2013 11:07:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Rig Down Safety Meeting	10/01/2013 10:25							All HES Personell Present (Went Over Heat Stress, PPE, Pinch Points, Trip Hazards, and Importance of Communication)
Rig-Down Equipment	10/01/2013 10:30							
Rig-Down Completed	10/01/2013 11:30							Rig Down Completed Safely
Depart Location Safety Meeting	10/01/2013 11:45							Scotty Walton, Andrew Chambers, Ricky Hill, Geoffry Tope
Depart Location for Service Center or Other Site	10/01/2013 12:00							Scotty Walton, Andrew Chambers, Ricky Hill, Geoffry Tope

Sold To # : 305021

Ship To # : 3109215

Quote # :

Sales Order # : 900787571

SUMMIT Version: 7.3.0106

Tuesday, October 01, 2013 11:07:00

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OCT 17 2013

HALLIBURTON

Cementing Job Summary

REGULATORY DEPT

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3109215	Quote #:	Sales Order #: 900801840
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: 4J Ranch 3408	Well #: 4-33H	API/UWI #: 15-077-21969	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 33 Township 34S Range 8W			
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: PROVINES, TYLER	MBU ID Emp #: 523867

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HAGEE, MILES Killion	6	427231	McKeever, Terry	6	514713	PROVINES, TYLER Wesley	6	523867
Turner, Daniel	6	461812						

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
10-7-13	6	2						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	07 - Oct - 2013	14:00	CST
Job depth MD	5448. ft		Job Depth TVD	Job Started	07 - Oct - 2013	17:50	CST
Water Depth			Wk Ht Above Floor	Job Completed	07 - Oct - 2013	20:02	CST
Perforation Depth (MD)	From		To	Departed Loc	07 - Oct - 2013	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
8.75" Open Hole				8.75				800.	5448.		
7" Intermediate Casing	Unknown	1250	7.	6.276	26.	LTC	P-110		5448.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		800.		

Tools and Accessories


Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	7	1	hes
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar			comp	5853.67	Retainer					SSR plug set			
Insert Float										Plug Container	7	1	hes
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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

1	HES Supplied Gel Water		30.00	bbl	8.33	.0	.0	.0	
	1.66 lbm/bbl	CAUSTIC SODA BEADS, 50 LB SK (100003650)							
	10 lbm/bbl	AQUAGEL - 100 LB BAG (101252566)							
2	Lead Cement	ECONOCEM (TM) SYSTEM (452992)	130.0	sacks	13.6	1.53	7.46		7.46
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 %	BENTONITE, BULK (100003682)							
	7.459 Gal	FRESH WATER							
3	Tail Cement	HALCEM (TM) SYSTEM (452986)	190.0	sacks	15.6	1.18	5.2		5.2
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	5.197 Gal	FRESH WATER							
4	Displacement		204.00	bbl	8.33	.0	.0	.0	
Calculated Values			Pressures			Volumes			
Displacement	204.7	Shut In: Instant		Lost Returns	0	Cement Slurry	75.5bbl	Pad	
Top Of Cement	2758.07	5 Min		Cement Returns	0	Actual Displacement	203.8	Treatment	
Frac Gradient		15 Min		Spacers	30bbl	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	5	Displacement	5.3	Avg. Job			5
Cement Left In Pipe	Amount	89.33 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 #: 3109215	Quote #:	Sales Order #: 900801840
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: 4J Ranch 3408	Well #: 4-33H	API/UWI #: 15-077-21969	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 33 Township 34S Range 8W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: UNIT		Rig/Platform Name/Num: 310	
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: PROVINES, TYLER	MBU ID Emp #: 523867

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/07/2013 09:09							
Pre-Convoy Safety Meeting	10/07/2013 09:30							discussed routs and stops
Arrive at Location from Other Job or Site	10/07/2013 14:00							Rig was running casin
Assessment Of Location Safety Meeting	10/07/2013 14:30							look for trip hazards and backing decided how to spot in tested water
Wait on Customer or Customer Sub-Contractor Equip	10/07/2013 14:45							to rig up and run casing. rig down and move for hes
Casing on Bottom	10/07/2013 16:45							put on cement head and tied into stand pipe
Pre-Rig Up Safety Meeting	10/07/2013 17:10							watch pinch points, team lift and use tag lines were needed
Rig-Up Completed	10/07/2013 17:30							
Pre-Job Safety Meeting	10/07/2013 17:40							with all on location. chained head down to rig floor
Start Job	10/07/2013 17:50							
Wait on Customer or Customer Sub-Contractor Equipm	10/07/2013 17:51							casing crew and lay down machine rigging down
Test Lines	10/07/2013 17:55							5000 psi
Pump Spacer 1	10/07/2013 18:00		5	30	30		350.0	Pumped 30bbl's of Gel/Caustic spacer
Pump Lead Cement	10/07/2013 18:06		5	35.5	35.5		310.0	130 saks @ 13.6#
Pump Tail Cement	10/07/2013 18:10		5	40	40		184.0	190 saks @ 15.6#

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	10/07/2013 18:23							top plug
Pump Displacement - Start	10/07/2013 18:26		5.3				45.0	fresh water
Pump Displacement - End	10/07/2013 19:02		5.3	203.8	203.8		765.0	fresh water
Bump Plug	10/07/2013 19:03							bumped plug @ 765 took to 1252
Check Floats	10/07/2013 19:08							ok got back 1 1/2 bbl
Post-Job Safety Meeting (Pre Rig-Down)	10/07/2013 19:15							watch for pinch points use tag lines where needed
Rig-Down Completed	10/07/2013 19:50							
Pre-Convoy Safety Meeting	10/07/2013 19:55							Discuss route and safe driving
End Job	10/07/2013 20:02							
Crew Leave Location	10/07/2013 20:30							THANKS FOR CALLING HALLIBURTON AND CREW