

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5074	200	3318	1983
BHL	9140	92.07	0.58	4721.53	4692.12	-164.84	4694.75	0.33	335	4894	3268	1933
Miss Entry	4940	61.53	357.22	4735.72	554.98	-39.41	556.20	11.05	4519	756	3292	1997
Top Perf	4964	64.28	357.33	4746.67	576.30	-40.42	577.55	11.41	4498	777	3291	1997
Bottom Perf	9022	92.50	0.91	4724.55	4618.20	-165.86	4620.95	1.92	455	4820	3265	1937

Survey Points	NW Corner XY Coord	X	Y	Surface XY	X	Y	m		
							North Line slope	East Line slope	South Line slope
	2092604	2092604	139968				0.0088615		
	2092733	2092733	134692	2098045	134924		-0.0457219		
	2097795	2097795	140014				0.0096172		
	2098036	2098036	134743				-0.0244503		

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL	
0	0.0	0	0	0	0	0	0	5074	200	3318	1983	
15	0	0	15	0	0	0	0	5074	200	3318	1983	
250	0.75	318.36	249.99329	1.1	-1.0	1.2	0.32	5073	201	3317	1984	
500	1	318.36	499.96354	4.0	-3.6	4.2	0.10	5070	204	3314	1986	
743	0.75	318.36	742.93463	6.8	-6.0	7.0	0.10	5068	207	3312	1988	
820	0.29	318.36	819.93125	7.3	-6.5	7.6	0.60	5067	208	3311	1989	
1004	0.15	211.17	1003.9304	7.4	-6.9	7.7	0.20	5067	208	3311	1989	
1096	0.09	163.77	1095.9302	7.3	-7.0	7.6	0.12	5067	207	3311	1989	
1187	0.09	231.6	1186.93	7.2	-7.0	7.5	0.11	5067	207	3311	1989	
1279	0.28	180.27	1278.9294	6.9	-7.1	7.2	0.25	5068	207	3311	1989	
1371	0.15	174.8	1370.9	6.5	-7.0	6.9	0.14	5068	207	3311	1989	
1463	0.31	106.63	1462.9	6.3	-6.8	6.7	0.32	5068	207	3311	1989	
1559	0.47	105.63	1558.9	6.2	-6.2	6.4	0.17	5068	206	3312	1989	
1650	0.07	82.62	1649.9	6.1	-5.8	6.3	0.45	5068	206	3312	1988	
1742	0.17	356.96	1741.9	6.2	-5.7	6.5	0.19	5068	206	3312	1988	
1836	0.2	329.55	1835.9	6.5	-5.8	6.8	0.10	5068	207	3312	1988	
1931	0.1	208.53	1930.9	6.6	-5.9	6.8	0.28	5068	207	3312	1988	
2025	0.41	45.29	2024.9	6.7	-5.7	7.0	0.54	5068	207	3312	1988	
2120	0.37	344.31	2119.9	7.3	-5.6	7.5	0.42	5067	207	3312	1988	
2215	0.41	57.44	2214.9	7.7	-5.4	8.0	0.49	5067	208	3313	1988	
2310	0.33	33.55	2309.9	8.2	-4.9	8.4	0.18	5066	208	3313	1987	
2405	0.06	123.56	2404.9	8.4	-4.7	8.6	0.35	5066	209	3313	1987	
2500	0.34	315.71	2499.9	8.5	-4.9	8.7	0.42	5066	209	3313	1987	
2594	0.22	334.35	2593.9	8.9	-5.2	9.1	0.16	5066	209	3313	1987	
2689	0.25	40.28	2688.9	9.2	-5.1	9.4	0.27	5065	209	3313	1987	
2784	0.06	75.33	2783.9	9.4	-4.9	9.6	0.21	5065	210	3313	1987	
2879	0.19	196.3	2878.9	9.2	-4.9	9.5	0.24	5065	209	3313	1987	
2974	0.25	54.54	2973.9	9.2	-4.8	9.4	0.44	5065	209	3313	1987	
3069	0.23	67.51	3068.9	9.4	-4.4	9.6	0.06	5065	210	3313	1987	
3164	0.46	71.48	3163.9	9.6	-3.9	9.8	0.24	5065	210	3314	1986	
3258	0.37	164.88	3257.9	9.4	-3.5	9.6	0.65	5065	210	3314	1986	
3544	0.17	311.23	3543.9	8.8	-3.6	9.0	0.18	5066	209	3314	1986	
3638	0.4	263.16	3637.9	8.9	-4.0	9.0	0.33	5066	209	3314	1986	
Top of Tangent @ 4683'	3733	0.42	243.22	3732.9	8.7	-4.6	8.9	0.15	5066	209	3313	1987
	3828	0.69	249.14	3827.9	8.3	-5.5	8.6	0.29	5066	209	3312	1988
	3923	4.13	349.42	3922.8	11.5	-6.6	11.8	4.53	5063	212	3311	1989
	3955	6.24	354.03	3954.7	14.3	-7.0	14.6	6.72	5060	215	3311	1989
	3986	8.65	357.58	3985.4	18.3	-7.3	18.7	7.91	5056	219	3311	1989
Btm of Tangent @ 4841'	4018	10.89	359.35	4017.0	23.8	-7.4	24.1	7.06	5051	224	3311	1989
	4050	12.07	358.46	4048.3	30.1	-7.6	30.5	3.73	5044	230	3311	1989
	4081	13.34	358.22	4078.6	37.0	-7.8	37.3	4.10	5037	237	3311	1989
	4113	14.2	358.72	4109.6	44.6	-8.0	44.9	2.71	5030	245	3311	1989
	4144	16.6	356.98	4139.5	52.8	-8.3	53.1	7.88	5022	253	3311	1989
	4176	20.01	354.69	4169.9	62.8	-9.0	63.2	10.89	5012	263	3310	1989
	4208	23.69	352.7	4199.6	74.6	-10.3	75.0	11.73	5000	275	3309	1990
	4240	26.32	352.19	4228.6	88.1	-12.1	88.5	8.25	4986	288	3308	1991
	4271	28.19	352.6	4256.1	102.1	-14.0	102.7	6.06	4972	302	3306	1992
	4303	29.07	352.92	4284.2	117.3	-15.9	117.9	2.79	4957	318	3305	1993
	4334	29.41	353.43	4311.3	132.4	-17.7	133.0	1.36	4942	333	3303	1994
	4366	30.2	354.94	4339.1	148.2	-19.3	148.9	3.41	4926	349	3302	1995
	4398	31.75	357.05	4366.5	164.6	-20.5	165.4	5.91	4910	365	3301	1996
	4430	33.96	359	4393.4	182.0	-21.1	182.7	7.66	4892	382	3301	1995
	4461	36.02	359.6	4418.8	199.7	-21.3	200.5	6.74	4875	400	3301	1995
	4493	38.88	359.8	4444.2	219.2	-21.4	219.9	8.95	4855	420	3302	1994
	4525	40.42	359.08	4468.8	239.6	-21.6	240.3	5.02	4835	440	3302	1993
	4556	42.08	358.53	4492.1	260.0	-22.0	260.8	5.48	4814	460	3302	1993
	4588	44.79	358.01	4515.3	282.0	-22.7	282.8	8.54	4792	482	3302	1993
	4619	47.03	357.42	4536.9	304.3	-23.6	305.0	7.35	4770	505	3302	1992
	4683	49.65	356.55	4579.5	352.0	-26.1	352.9	4.22	4722	552	3300	1993
	4730	49.47	356.06	4609.9	387.7	-28.4	388.6	0.88	4687	588	3299	1993
	4778	50.07	355.94	4640.9	424.3	-31.0	425.2	1.26	4650	625	3297	1994
	4841	51.31	355.62	4680.9	472.9	-34.6	474.0	2.01	4601	673	3295	1996
	4872	54.19	356.35	4699.6	497.5	-36.3	498.6	9.48	4577	698	3294	1996
	4904	57.56	356.92	4717.6	523.9	-37.8	525.1	10.63	4550	724	3293	1997
	4936	61.07	357.2	4733.9	551.4	-39.2	552.6	10.99	4523	752	3292	1997

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4967	64.62	357.34	4748.0	579.0	-40.6	580.2	11.46	4495	780	3291	1997
4999	68.28	356.64	4760.8	608.3	-42.1	609.5	11.61	4466	809	3290	1997
5030	70.62	356.13	4771.7	637.2	-43.9	638.6	7.70	4437	838	3289	1998
5062	72.36	356.15	4781.9	667.5	-46.0	668.9	5.44	4407	868	3288	1998
5093	74.6	355.6	4790.7	697.1	-48.1	698.6	7.42	4377	898	3287	1999
5125	77.47	355.32	4798.4	728.1	-50.6	729.6	9.01	4346	929	3285	2000
5157	79.57	355.03	4804.8	759.3	-53.2	761.0	6.62	4315	960	3283	2001
5188	82.1	355.04	4809.7	789.8	-55.9	791.6	8.16	4284	991	3281	2002
5220	84.2	354.96	4813.5	821.5	-58.6	823.3	6.57	4252	1022	3279	2004
5252	86.8	354.67	4816.0	853.2	-61.5	855.2	8.18	4221	1054	3277	2005
5312	89.54	355.28	4817.9	913.0	-66.8	915.1	4.68	4161	1114	3273	2008
5407	90.25	355.69	4818.1	1007.7	-74.2	1010.0	0.86	4066	1209	3268	2011
5470	91.3	354.86	4817.3	1070.5	-79.4	1073.0	2.12	4003	1271	3264	2013
5533	91.77	358.26	4815.6	1133.3	-83.2	1135.9	5.45	3940	1334	3262	2014
5627	91.68	357.1	4812.7	1227.2	-87.0	1229.9	1.24	3847	1428	3261	2014
5722	91.78	359.29	4809.9	1322.1	-90.0	1324.8	2.31	3752	1523	3260	2012
5817	91.11	357.18	4807.5	1417.0	-92.9	1419.8	2.32	3657	1618	3259	2011
5912	91.38	355.51	4805.5	1511.8	-99.0	1514.7	1.78	3562	1713	3256	2013
6007	90.81	354.1	4803.6	1606.4	-107.6	1609.6	1.60	3467	1808	3249	2017
6102	90.25	353.14	4802.8	1700.8	-118.1	1704.4	1.17	3373	1902	3241	2023
6197	91.2	355.27	4801.6	1795.3	-127.7	1799.3	2.45	3278	1997	3234	2028
6291	90.59	358.38	4800.1	1889.1	-132.9	1893.2	3.37	3184	2091	3231	2029
6386	91.42	0.01	4798.4	1984.1	-134.3	1988.2	1.93	3089	2186	3232	2026
6481	91.11	0.27	4796.3	2079.1	-134.0	2083.0	0.43	2994	2281	3234	2022
6576	90.83	0.16	4794.7	2174.1	-133.7	2177.9	0.32	2899	2375	3237	2017
6671	91.52	359.27	4792.8	2269.0	-134.1	2272.8	1.19	2804	2470	3239	2013
6765	92.03	358.71	4789.9	2363.0	-135.8	2366.7	0.81	2710	2564	3240	2010
6860	91.62	358.37	4786.8	2457.9	-138.2	2461.6	0.56	2615	2659	3240	2009
6955	90.93	359	4784.7	2552.8	-140.4	2556.6	0.98	2520	2754	3240	2006
7050	92.67	359.9	4781.7	2647.8	-141.3	2651.5	2.06	2425	2849	3241	2003
7145	92.04	357.69	4777.8	2742.7	-143.3	2746.4	2.42	2331	2944	3241	2001
7240	92.19	358.42	4774.3	2837.6	-146.5	2841.3	0.78	2236	3039	3241	2000
7334	92.07	358.24	4770.8	2931.5	-149.3	2935.2	0.23	2142	3133	3240	1998
7429	90.96	357.39	4768.3	3026.4	-152.9	3030.2	1.47	2047	3228	3239	1997
7524	90.09	357.75	4767.4	3121.3	-156.9	3125.2	0.99	1952	3323	3237	1997
7619	92.26	359.31	4765.5	3216.2	-159.4	3220.1	2.81	1857	3418	3237	1995
7714	91.58	358.78	4762.3	3311.1	-160.9	3315.0	0.91	1762	3513	3238	1992
7809	90.52	358.81	4760.6	3406.1	-162.9	3410.0	1.12	1667	3608	3238	1990
7904	90.58	359.37	4759.7	3501.1	-164.4	3504.9	0.59	1572	3703	3239	1987
7999	89.63	358.67	4759.5	3596.1	-166.1	3599.9	1.24	1477	3798	3240	1984
8093	91.23	358.67	4758.8	3690.0	-168.2	3693.9	1.70	1383	3892	3240	1982
8188	92.71	359.12	4755.5	3785.0	-170.1	3788.8	1.63	1288	3987	3240	1980
8282	93.24	359.64	4750.6	3878.8	-171.1	3882.6	0.79	1194	4081	3241	1976
8377	92.69	359.59	4745.7	3973.7	-171.7	3977.4	0.58	1099	4175	3243	1973
8472	91.23	359.27	4742.5	4068.6	-172.7	4072.3	1.57	1004	4270	3244	1969
8566	91.42	0.49	4740.3	4162.6	-172.9	4166.2	1.31	910	4364	3247	1965
8661	90.37	359.91	4738.8	4257.6	-172.5	4261.0	1.26	815	4459	3249	1961
8756	91.7	1.35	4737.1	4352.6	-171.5	4355.9	2.06	720	4554	3253	1955
8850	92.45	0.86	4733.7	4446.5	-169.7	4449.6	0.95	627	4648	3257	1949
8945	93.76	1.76	4728.6	4541.3	-167.5	4544.2	1.67	532	4743	3261	1943
9040	92.2	0.71	4723.6	4636.2	-165.5	4638.9	1.98	437	4838	3266	1936
9096.00	92.07	0.58	4721.5	4692.1	-164.8	4694.8	0.33	381	4894	3268	1933
9140.00	92.07	0.58	4721.5	4692.1	-164.8	4694.8	0.33	335	4894	3268	1933

Section 27
34S 8W

Section 26
34S 8W

BHL: 9485'
-98.171834 37.04966

376' FNL

1933' FEL

Bottom Perf: 8611'
-98.171866 37.048466

Harper County

Section 34
34S 8W

Section 3
34S 8W

Top Perf: 4964'
-98.171459 37.038363

Miss Entry: 4952'
-98.171454 37.038287

MACY 1-34 SWD * * * * * JENNIFER 1-34H

MACY 2- JENNIFER 3408 5-34H * * * * * RANDY 3508 2-3H * * * * * JENNIFER 3408 3-34H * * * * * JENNIFER 3408 7-34H * * * * * RANDY 3508 1-3H * * * * * JENNIFER 3408 6-34H * * * * * JENNIFER 3408 4-34H * * * * * JENNIFER 3408 2-34H * * * * *

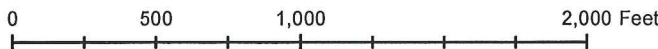
Section 3
35S 8W



Actual Bottom-Hole Location of Jennifer 3408 2-34H
T&R: 34S 8W
Section: 34, 1933' FEL & 376' FNL
-98.171834 37.04966



1 in = 667 ft



● Actual BH Location

* SandRidge Wells

□ Sections

Draftsman:

Dory Deines

Draft Date: 3/26/2015

Drawing Name/Number:

Addendum_Jennifer 3408 2-34H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502



INVOICE

DATE	INVOICE #
10/29/2012	3539

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

REMIT TO
EDGE SERVICES, INC. BILLING DEPARTMENT PO BOX 4201 OKLAHOMA CITY, OK 73113

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	10/27/2012	2893	UNIT 310	JENNIFER 2-34H	Due on rec...
Description					
DRILLED 90' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED 1 LOAD(S) MUD FURNISHED WELDER AND MATERIALS FURNISHED 11 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL RAT AND MOUSE HOLES FURNISHED 80' OF 14" CONDUCTOR PIPE TOTAL BID \$17,000.00					
Sales Tax (6.3%)					\$295.48
TOTAL					\$17,295.48

NOV 19 2012

HALLIBURTON

REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2961787	Quote #:	Sales Order #: 9943714
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Jennifer 3408	Well #: 2-34H	API/UWI #: 15-077-21881	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 34 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: NGUYEN, VINH		Srvc Supervisor: OLSON, ERIC	MBU ID Emp #: 455339

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
OLSON, ERIC Eugene	9	455339	TERRY, STACY Glen	6	373291	VAN DER HORST, DANIEL Scott	9	515877

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025029	100 mile	10714264C	100 mile	10804565	100 mile	10951223	100 mile
10994449	100 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

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
					04 - Nov - 2012	05:00	CST
Form Type			BHST	On Location	04 - Nov - 2012	08:00	CST
Job depth MD	743. ft		Job Depth TVD	743. ft	04 - Nov - 2012	15:36	CST
Water Depth			Wk Ht Above Floor		04 - Nov - 2012	16:32	GMT
Perforation Depth (MD)	From		To	Departed Loc	04 - Nov - 2012	17:30	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.	755.		
12.25" Open Hole- Lower				12.25				495.	743.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	743.		
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	9.625	1	wiper
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

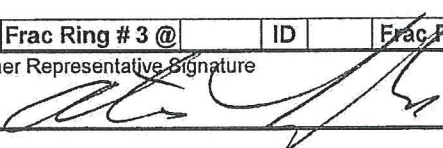
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

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	4	
2	HLC STANDARD	EXTENDACEM (TM) SYSTEM (452981)	210.0	sacks	12.4	2.11	11.64	4	11.64
	3 %	CALCIUM CHLORIDE, PELLETT, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.637 Gal	FRESH WATER							
3	STANDARD	SWIFTCEM (TM) SYSTEM (452990)	190.0	sacks	15.6	1.2	5.32	5	5.32
	2 %	CALCIUM CHLORIDE, PELLETT, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement		54.00	bbl	8.33	.0	.0	5	
Calculated Values		Pressures			Volumes				
Displacement	54	Shut In: Instant		Lost Returns	no	Cement Slurry	120	Pad	
Top Of Cement	0 ft	5 Min		Cement Returns	54	Actual Displacement	54	Treatment	
Frac Gradient		15 Min		Spacers	64	Load and Breakdown		Total Job	184
Rates									
Circulating		Mixing		Displacement	54	Avg. Job			
Cement Left In Pipe	Amount	46 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 					

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NOV 19 2012

HALLIBURTON REGULATORY DEPT SANDRIDGE ENERGY *Cementing Job Summary*

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2961787	Quote #:	Sales Order #: 9956187
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Jennifer 3408	Well #: 2-34H	API/UWI #: 15-077-21881	
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 Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate 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	10	518950	RUSH, BENJAMIN Maxwell	10	522278	WALTON, SCOTTY Dwayne	10	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
11-9-12	10	2						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	09 - Nov - 2012	09:00 CST
Form Type BHST	On Location	09 - Nov - 2012	14:00 CST
Job depth MD 5225. ft Job Depth TVD 5255. ft	Job Started	09 - Nov - 2012	21:29 CST
Water Depth Wk Ht Above Floor	Job Completed	09 - Nov - 2012	22:32 CST
Perforation Depth (MD) From To	Departed Loc	10 - Nov - 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.	5255.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5225.		
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

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	Rig Supplied Gel Spacer			bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD (w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)		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)		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			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					

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DEC 28 2012

HALLIBURTON
REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Job Summary

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 Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				16 - Dec - 2012	22:00	CST	
				17 - Dec - 2012	01:30	CST	
	9116. ft			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	bbbl	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	bbbl	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					

Remarks

Tiffany Golay
02/18/013 07:39 am

Frac Disclosure uploaded to FracFocus

Tiffany Golay
02/18/013 07:36 am

TVD= 4,719'