

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1217381

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

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: \_\_\_\_\_



Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Stewart 3306 1-1H
Doc ID	1217381

#### 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	grout	10	see report
Surface	12.25	9.625	36	603	Class A POZ Blend	340	see report
Intermediate	8.75	7	26	5251	Class A POZ Blend	340	see report

Company: Sandridge  
Well Name: Stewart 3306 1-1H  
Legals: Sec: 1 Township: 33S Range: 6W  
County/State: Harper KS  
Rig Name: Lariat 20

Customer Rep	Position	Directional Driller	MWD Operator
		Mike Foster	
		Scott Graham	

## Stewart 1-1H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	610.00	0.30	136.60	610.00	-1.16	1.10	-1.37	0.05	0.05	22.39	136.52	1.60
Survey	704.00	0.60	139.40	703.99	-1.71	1.59	-2.02	0.32	0.32	2.98	137.08	2.33
Survey	799.00	1.00	155.20	798.98	-2.84	2.26	-3.27	0.48	0.42	16.63	141.49	3.63
Survey	894.00	0.60	120.90	893.98	-3.85	3.03	-4.43	0.64	0.42	36.11	141.80	4.90
Survey	988.00	1.10	169.40	987.97	-4.99	3.62	-5.67	0.89	0.53	51.60	144.04	6.16
Survey	1083.00	2.80	247.10	1082.92	-6.79	1.65	-6.99	2.93	1.79	81.79	166.34	6.99
Survey	1178.00	5.80	260.10	1177.64	-8.52	-5.22	-7.15	3.30	3.16	13.68	211.49	9.99
Survey	1272.00	8.70	262.60	1270.88	-10.25	-16.95	-6.24	3.10	3.09	2.66	238.84	19.81
Survey	1367.00	12.50	263.70	1364.24	-12.31	-34.30	-4.41	4.01	4.00	1.16	250.26	36.44
Survey	1462.00	16.70	262.50	1456.16	-15.22	-58.06	-1.99	4.43	4.42	1.26	255.31	60.02
Survey	1553.00	20.80	260.10	1542.31	-19.70	-86.95	0.04	4.58	4.51	2.64	257.23	89.15
Survey	1645.00	22.50	253.20	1627.83	-27.60	-119.91	-0.37	3.32	1.85	7.50	257.04	123.05
Survey	1735.00	21.80	247.60	1711.20	-38.95	-151.85	-4.37	2.47	0.78	6.22	255.61	156.77
Survey	1827.00	20.80	245.70	1796.91	-52.18	-182.53	-10.48	1.32	1.09	2.07	254.05	189.84
Survey	1918.00	20.20	244.60	1882.15	-65.57	-211.45	-17.13	0.78	0.66	1.21	252.77	221.38
Survey	2010.00	19.30	242.30	1968.74	-79.45	-239.26	-24.51	1.29	0.98	2.50	251.63	252.11
Survey	2100.00	18.70	239.80	2053.84	-93.62	-264.90	-32.65	1.12	0.67	2.78	250.54	280.96
Survey	2191.00	17.60	245.40	2140.31	-106.69	-290.02	-39.84	2.26	1.21	6.15	249.80	309.02
Survey	2282.00	19.50	250.50	2226.59	-117.49	-316.85	-44.43	2.74	2.09	5.60	249.65	337.93
Survey	2374.00	19.10	249.20	2313.42	-127.96	-345.39	-48.32	0.64	0.43	1.41	249.67	368.33
Survey	2466.00	18.70	246.40	2400.46	-139.21	-372.98	-53.19	1.08	0.43	3.04	249.53	398.11
Survey	2557.00	18.90	253.20	2486.61	-149.31	-400.46	-56.95	2.42	0.22	7.47	249.55	427.39
Survey	2649.00	18.20	250.20	2573.84	-158.48	-428.24	-59.74	1.29	0.76	3.26	249.69	456.62
Survey	2741.00	19.80	251.40	2660.82	-168.32	-456.53	-63.08	1.79	1.74	1.30	249.76	486.57
Survey	2834.00	18.90	249.20	2748.57	-178.69	-485.54	-66.77	1.25	0.97	2.37	249.80	517.38
Survey	2929.00	18.50	246.30	2838.56	-190.22	-513.73	-71.77	1.07	0.42	3.05	249.68	547.82
Survey	3025.00	18.60	248.20	2929.57	-202.02	-541.89	-77.04	0.64	0.10	1.98	249.55	578.32
Survey	3120.00	18.10	249.70	3019.74	-212.77	-569.79	-81.35	0.72	0.53	1.58	249.52	608.22
Survey	3214.00	19.00	253.30	3108.86	-222.23	-598.15	-84.30	1.55	0.96	3.83	249.62	638.10
Survey	3310.00	20.00	255.80	3199.35	-230.75	-629.03	-85.77	1.36	1.04	2.60	249.86	670.02
Survey	3404.00	17.90	251.40	3288.26	-239.30	-658.31	-87.63	2.70	2.23	4.68	250.02	700.45
Survey	3499.00	17.00	247.60	3378.89	-249.25	-684.99	-91.42	1.53	0.95	4.00	250.00	728.93
Survey	3593.00	17.90	246.30	3468.56	-260.30	-710.92	-96.46	1.04	0.96	1.38	249.89	757.08
Survey	3688.00	18.30	248.50	3558.86	-271.63	-738.17	-101.48	0.83	0.42	2.32	249.80	786.56
Survey	3782.00	18.20	252.40	3648.13	-281.48	-765.89	-104.94	1.30	0.11	4.15	249.82	815.98
Survey	3814.00	16.30	259.90	3678.70	-283.78	-775.08	-105.15	9.13	5.94	23.44	249.89	825.40
Survey	3845.00	15.30	263.80	3708.53	-284.98	-783.43	-104.47	4.70	3.23	12.58	250.01	833.65
Survey	3877.00	15.90	269.20	3739.35	-285.50	-792.01	-103.08	4.91	1.88	16.87	250.18	841.90
Survey	3908.00	17.70	274.20	3769.03	-285.22	-800.96	-100.83	7.44	5.81	16.13	250.40	850.23
Survey	3940.00	20.40	278.50	3799.28	-284.04	-811.33	-97.38	9.50	8.44	13.44	250.71	859.61
Survey	3972.00	22.90	283.40	3829.02	-281.77	-822.90	-92.61	9.63	7.81	15.31	251.10	869.80



## Stewart 1-1H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4004.00	24.40	290.10	3858.34	-278.05	-835.17	-86.26	9.61	4.69	20.94	251.59	880.24
Survey	4035.00	25.80	296.30	3886.41	-272.86	-847.23	-78.53	9.61	4.52	20.00	252.15	890.08
Survey	4066.00	26.60	301.40	3914.23	-266.25	-859.20	-69.44	7.71	2.58	16.45	252.78	899.51
Survey	4098.00	27.10	306.70	3942.78	-258.16	-871.16	-58.90	7.64	1.56	16.56	253.49	908.61
Survey	4130.00	27.80	312.20	3971.18	-248.79	-882.54	-47.24	8.22	2.19	17.19	254.26	916.94
Survey	4161.00	29.00	317.00	3998.46	-238.44	-893.02	-34.83	8.32	3.87	15.48	255.05	924.30
Survey	4193.00	29.70	321.40	4026.36	-226.57	-903.26	-20.99	7.08	2.19	13.75	255.92	931.24
Survey	4224.00	30.90	324.10	4053.12	-214.12	-912.72	-6.75	5.86	3.87	8.71	256.80	937.50
Survey	4256.00	33.00	326.80	4080.27	-200.17	-922.31	8.98	7.94	6.56	8.44	257.75	943.78
Survey	4287.00	35.20	330.60	4105.94	-185.32	-931.32	25.45	9.88	7.10	12.26	258.75	949.58
Survey	4319.00	37.20	333.70	4131.76	-168.61	-940.14	43.70	8.47	6.25	9.69	259.83	955.14
Survey	4351.00	39.00	336.20	4156.95	-150.72	-948.49	62.99	7.41	5.62	7.81	260.97	960.39
Survey	4382.00	41.00	338.80	4180.70	-132.31	-956.11	82.63	8.41	6.45	8.39	262.12	965.22
Survey	4413.00	43.30	341.80	4203.68	-112.73	-963.10	103.28	9.86	7.42	9.68	263.32	969.68
Survey	4445.00	45.50	343.80	4226.54	-91.34	-969.71	125.60	8.15	6.88	6.25	264.62	974.00
Survey	4476.00	47.50	345.20	4247.88	-69.68	-975.72	148.05	7.24	6.45	4.52	265.92	978.20
Survey	4508.00	49.90	347.50	4269.00	-46.32	-981.38	172.09	9.24	7.50	7.19	267.30	982.47
Survey	4540.00	52.20	349.30	4289.12	-21.94	-986.38	196.97	8.41	7.19	5.62	268.73	986.62
Survey	4572.00	54.30	350.50	4308.27	3.30	-990.87	222.58	7.22	6.56	3.75	270.19	990.88
Survey	4603.00	56.20	351.00	4325.93	28.44	-994.97	248.00	6.27	6.13	1.61	271.64	995.38
Survey	4634.00	58.70	351.50	4342.61	54.26	-998.94	274.06	8.18	8.06	1.61	273.11	1000.41
Survey	4666.00	61.70	352.30	4358.51	81.75	-1002.85	301.73	9.62	9.38	2.50	274.66	1006.18
Survey	4697.00	64.70	352.80	4372.49	109.18	-1006.44	329.28	9.78	9.68	1.61	276.19	1012.34
Survey	4729.00	67.50	353.80	4385.45	138.24	-1009.85	358.37	9.20	8.75	3.13	277.79	1019.27
Survey	4760.00	69.90	354.50	4396.71	166.97	-1012.79	387.04	8.02	7.74	2.26	279.36	1026.46
Survey	4792.00	72.70	355.40	4406.97	197.16	-1015.46	417.07	9.15	8.75	2.81	280.99	1034.42
Survey	4824.00	75.90	355.70	4415.63	227.87	-1017.85	447.55	10.04	10.00	0.94	282.62	1043.05
Survey	4854.00	78.60	357.20	4422.25	257.07	-1019.66	476.42	10.24	9.00	5.00	284.15	1051.57
Survey	4886.00	81.10	358.00	4427.89	288.54	-1020.98	507.40	8.19	7.81	2.50	285.78	1060.97
Survey	4917.00	83.70	358.80	4431.99	319.25	-1021.84	537.54	8.77	8.39	2.58	287.35	1070.55
Survey	4949.00	86.30	359.50	4434.78	351.12	-1022.31	568.73	8.41	8.13	2.19	288.96	1080.93
Survey	4981.00	88.20	359.70	4436.31	383.09	-1022.53	599.95	5.97	5.94	0.62	290.54	1091.94
Survey	5012.00	88.40	359.60	4437.23	414.07	-1022.72	630.20	0.72	0.65	0.32	292.04	1103.36
Survey	5044.00	88.70	359.50	4438.04	446.06	-1022.97	661.46	0.99	0.94	0.31	293.56	1115.99
Survey	5075.00	88.90	359.20	4438.69	477.05	-1023.32	691.75	1.16	0.65	0.97	294.99	1129.05
Survey	5107.00	89.10	358.80	4439.25	509.04	-1023.88	723.07	1.40	0.63	1.25	296.44	1143.44
Survey	5139.00	89.30	358.90	4439.70	541.03	-1024.52	754.41	0.70	0.62	0.31	297.84	1158.60
Survey	5170.00	89.40	358.80	4440.05	572.02	-1025.14	784.77	0.46	0.32	0.32	299.16	1173.93
Survey	5202.00	89.60	358.70	4440.33	604.01	-1025.84	816.12	0.70	0.62	0.31	300.49	1190.45
Survey	5225.00	89.70	358.40	4440.47	627.01	-1026.42	838.68	1.37	0.43	1.30	301.42	1202.78
Survey	5277.00	90.00	358.20	4440.61	678.99	-1027.96	889.71	0.69	0.58	0.38	303.45	1231.96
Survey	5368.00	90.50	357.80	4440.21	769.93	-1031.14	979.10	0.70	0.55	0.44	306.75	1286.87
Survey	5460.00	89.50	359.20	4440.21	861.90	-1033.55	1069.32	1.87	1.09	1.52	309.83	1345.77
Survey	5550.00	89.40	359.20	4441.07	951.88	-1034.80	1157.34	0.11	0.11	0.00	312.61	1406.02
Survey	5642.00	89.40	358.90	4442.03	1043.86	-1036.33	1247.38	0.33	0.00	0.33	315.21	1470.93
Survey	5733.00	89.70	358.50	4442.74	1134.83	-1038.39	1336.55	0.55	0.33	0.44	317.54	1538.21
Survey	5825.00	90.30	358.10	4442.74	1226.79	-1041.12	1426.83	0.78	0.65	0.43	319.68	1609.02
Survey	5915.00	90.40	359.40	4442.19	1316.76	-1043.08	1515.00	1.45	0.11	1.44	321.62	1679.84

## Stewart 1-1H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	6006.00	91.30	359.20	4440.84	1407.75	-1044.19	1603.98	1.01	0.99	0.22	323.43	1752.74
Survey	6097.00	91.50	359.80	4438.62	1498.72	-1044.98	1692.87	0.69	0.22	0.66	325.11	1827.06
Survey	6189.00	90.80	0.40	4436.77	1590.70	-1044.82	1782.53	1.00	0.76	0.65	326.70	1903.15
Survey	6281.00	91.10	1.80	4435.24	1682.67	-1043.05	1871.83	1.56	0.33	1.52	328.21	1979.73
Survey	6372.00	90.90	2.80	4433.66	1773.58	-1039.40	1959.67	1.12	0.22	1.10	329.63	2055.71
Survey	6463.00	89.00	2.40	4433.74	1864.48	-1035.27	2047.40	2.13	2.09	0.44	330.96	2132.62
Survey	6556.00	90.20	2.60	4434.39	1957.39	-1031.21	2137.11	1.31	1.29	0.22	332.22	2212.41
Survey	6649.00	90.90	2.30	4433.50	2050.30	-1027.24	2226.84	0.82	0.75	0.32	333.39	2293.24
Survey	6743.00	91.50	1.50	4431.53	2144.23	-1024.12	2317.75	1.06	0.64	0.85	334.47	2376.25
Survey	6838.00	89.60	1.00	4430.62	2239.19	-1022.05	2409.89	2.07	2.00	0.53	335.47	2461.41
Survey	6933.00	90.80	1.30	4430.29	2334.17	-1020.14	2502.09	1.30	1.26	0.32	336.39	2547.36
Survey	7027.00	90.60	0.80	4429.14	2428.15	-1018.42	2593.36	0.57	0.21	0.53	337.25	2633.08
Survey	7121.00	88.30	0.10	4430.04	2522.14	-1017.68	2684.85	2.56	2.45	0.74	338.03	2719.72
Survey	7216.00	88.30	359.30	4432.86	2617.10	-1018.18	2777.57	0.84	0.00	0.84	338.74	2808.18
Survey	7311.00	88.00	359.10	4435.93	2712.04	-1019.50	2870.44	0.38	0.32	0.21	339.40	2897.33
Survey	7406.00	87.90	358.30	4439.33	2806.95	-1021.65	2963.48	0.85	0.11	0.84	340.00	2987.10
Survey	7501.00	88.90	358.00	4441.98	2901.87	-1024.72	3056.72	1.10	1.05	0.32	340.55	3077.48
Survey	7595.00	92.10	359.00	4441.16	2995.82	-1027.18	3148.88	3.57	3.40	1.06	341.07	3167.02
Survey	7690.00	92.50	358.00	4437.35	3090.71	-1029.67	3241.97	1.13	0.42	1.05	341.57	3257.72
Survey	7786.00	92.70	357.90	4433.00	3186.55	-1033.10	3336.19	0.23	0.21	0.10	342.04	3349.84
Survey	7881.00	93.70	358.00	4427.69	3281.34	-1036.49	3429.38	1.06	1.05	0.11	342.47	3441.15
Survey	7976.00	91.50	357.70	4423.38	3376.17	-1040.05	3522.64	2.34	2.32	0.32	342.88	3532.74
Survey	8070.00	89.80	358.10	4422.31	3470.10	-1043.49	3615.01	1.86	1.81	0.43	343.26	3623.60
Survey	8165.00	90.70	357.70	4421.90	3565.03	-1046.97	3708.35	1.04	0.95	0.42	343.63	3715.59
Survey	8260.00	91.40	359.10	4420.16	3659.97	-1049.62	3801.52	1.65	0.74	1.47	344.00	3807.50
Survey	8354.00	89.60	0.10	4419.34	3753.96	-1050.28	3893.33	2.19	1.91	1.06	344.37	3898.12
Survey	8448.00	90.20	1.20	4419.50	3847.95	-1049.21	3984.75	1.33	0.64	1.17	344.75	3988.43
Survey	8543.00	90.90	0.60	4418.59	3942.93	-1047.72	4077.04	0.97	0.74	0.63	345.12	4079.76
Survey	8638.00	90.90	0.00	4417.10	4037.92	-1047.22	4169.56	0.63	0.00	0.63	345.46	4171.51
Survey	8720.00	90.40	1.00	4416.17	4119.91	-1046.50	4249.36	1.36	0.61	1.22	345.75	4250.74
PrjCalcPnt	8770	90.4	1	4415.82	4169.90	-1045.63	4297.92	0	0	0	345.92	4299.00



# Sandridge

# WELL PROFILE DATA

Location Kansas  
Field Sec 1 - 33S - 6W  
Installation Harper County Wellbore Stewart 3306 1-1H (PWB)

## Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N37 11 52.16	W97 54 46.79	193941.00	2170984.00
Kansas State Planes, Southern Zone				

## Slot Data

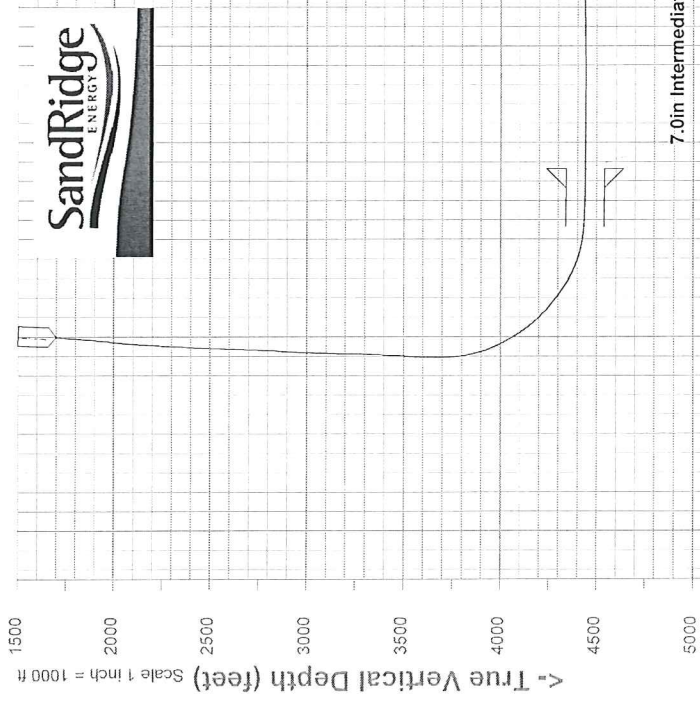
Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Stewart 3306 1-1H	0.00 N	0.00 E	N37 11 52.16	W97 54 46.79	193941.00	2170984.00

## Elevation Data

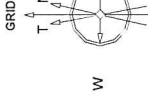
Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
1346.00	-1328.00	18.00

Target Line: 04-24-14

TGT: 4475' KBTVD @ 0' VS  
90.65° @ 347.21 AZI Plane



IGRF Model (1900-2015.0) Dip: 65.26 deg Field: 57098 a nT  
Magnetic North is 4.28 deg East of True North  
GRID North is 0.36 deg East of True North  
To correct azimuth from True to GRID add/subtract 0.36 deg  
To correct azimuth from Magnetic to GRID add 5.92 deg



## TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
-	-	-	-	-	-	Tie-On Drop w/ 2" BRN	2169936.25 East : 197863.98 North
8596.72	88.10	1.87	4418.59	3942.93	-1047.74	Hold Section	2169939.58 East : 198037.64 North
9138.40	90.65	1.87	4422.20	4096.59	-1044.43	PBHL Stewart 3306 1-1H	2169954.00 East : 198479.00 North
8796.70	88.10	1.87	4423.24	4096.59	-1044.43	Build w/ 2" BRN	2169942.82 East : 198137.51 North
8924.20	90.65	1.88	4424.63	4196.46	-1041.17	Hold Section	2169946.99 East : 198264.93 North

Created by admin

Date plotted 29-Apr-2014

Plot reference is Stewart 3306 1-1H (PWB)  
Ref wellpath is Stewart 3306 1-1H (PWP#1)  
Coordinates are in feet reference Stewart 3306 1-1H  
True Vertical Depths are reference Stewart 3306 1-1H  
Measured Depths are reference Slot  
Plot North is aligned to GRID North.

Projected BHL  
700 FNL 1341 FEL  
X= 2169938 Y= 198111  
N 4170 W 1046  
MD 8770 TVD 4416  
VS 4299

Surface Location  
Sec 1-133S-R6W  
375 FSL & 350 FEL

Scale 1 inch = 1000 ft

East (feet) ->

North (feet)

Scale 1 inch = 1000 ft



SandRidge Energy  
Stewart 3306 1-1H  
Harper County, KS.

## 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Stewart 3306 1-1H Surface Casing.

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

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

63.5 Bbls (190 sacks) of 12.7 ppg Lead slurry:  
65:35 Class A:Poz Blend - 1.87 Yield  
6.0% Gel  
2%cc  
1/4# Floseal

32 Bbls (150 sacks) of 15.6 ppg Tail slurry:  
2% cc  
1/4# Floseal

The top plug was then released and displaced with 43.5 of fresh water. The plug bumped and pressured up to 1000 psi. Pressure was released and floats held.

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

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

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





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

## 1.0 Executive Summary

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

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

Allied started the job testing lines to 2500 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:  
50:50 Class A:Poz Blend - 1.4 Yield  
2.0% Gel  
0.4% FL-160  
0.1% SA-51

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

The top plug was then released and displaced with 199.5 of fresh water. The plug bumped and pressured up to 1400 psi. Pressure was released and floats held.

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

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

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



# Well Master Completion Summary

123 Robert S. Kerr Ave.  
Oklahoma City, OK 73102

Well Name STEWART 3306 1-1H		Corp ID 126915	API No. 15077220380000	Operator SANDRIDGE EXPLORATION AND PRODUCTION LLC				Current Well Status PRODUCING	WI (%) 68.740064
Well Type DEVELOPMENT	Well Config HORIZONTAL	Dual Completion? No	Division MIDCON	Subdivision NORTH	State KS	County/Parish HARPER	District	Well Sub-Status FLOWING	NRI (%) 54.309275
Township 33	Twtnshp N/S Dir S	Range 6	Range E/W Dir W	Section 1	Section Surf	Field Name WETHINGTON			

## Wellheads

<typ>, <make> on <dtmstart>

Type

## Wellhead Components

Des	Make	Bore Min (in)	WP (psi)	Service	WP Top (psi)	Top Ring Gasket	Model

## Casing Strings

Csg Desc	OD (in)	W/Len (lb/ft)	Grade	Connection	Set Depth (ftKB)
Conductor	20	94.00	J-55	LT&C	90
Surface	9 5/8	36.00	J-55		603
Intermediate	7	26.00	P-110	LT&C	5,251
Production Liner	4 1/2	11.60	N-80	LT&C	8,770

## Tubing Strings

<des> set at <depthbtm>ftKB on <dtmrun>

Tubing Description	Run Date	String Length (ft)			Set Depth (ftKB)	
Item Des	Jts	Make	OD (in)	NUE WL (lb/ft)	Grade	Len (ft)

## Rod Strings

<des> on <dtmrun>

Rod Description		Run Date		String Length (ft)		Set Depth (ftKB)	
Item Des	Jts	Make	Model	OD (in)	Wl (lb/ft)	Grade	Len (ft)

## Perforations

Date	Top (ftKB)	Blm (ftKB)	Zone
5/24/2014	4,840.0	4,842.0	Miss Lime, Original Hole
5/24/2014	4,939.0	4,941.0	Miss Lime, Original Hole
5/24/2014	5,038.0	5,040.0	Miss Lime, Original Hole
5/27/2014	5,308.0	5,310.0	Miss Lime, Original Hole
5/27/2014	5,354.0	5,356.0	Miss Lime, Original Hole
5/27/2014	5,414.0	5,416.0	Miss Lime, Original Hole
5/27/2014	5,461.0	5,463.0	Miss Lime, Original Hole
5/27/2014	5,514.0	5,516.0	Miss Lime, Original Hole
5/27/2014	5,648.0	5,650.0	Miss Lime, Original Hole
5/27/2014	5,718.0	5,720.0	Miss Lime, Original Hole
5/27/2014	5,773.0	5,775.0	Miss Lime, Original Hole
5/27/2014	5,833.0	5,835.0	Miss Lime, Original Hole
5/27/2014	5,913.0	5,915.0	Miss Lime, Original Hole
5/27/2014	5,968.0	5,970.0	Miss Lime, Original Hole
5/27/2014	6,023.0	6,025.0	Miss Lime, Original Hole
5/27/2014	6,098.0	6,100.0	Miss Lime, Original Hole
5/27/2014	6,153.0	6,155.0	Miss Lime, Original Hole
5/27/2014	6,218.0	6,220.0	Miss Lime, Original Hole
5/27/2014	6,348.0	6,350.0	Miss Lime, Original Hole
5/27/2014	6,400.0	6,402.0	Miss Lime, Original Hole
5/27/2014	6,491.0	6,493.0	Miss Lime, Original Hole
5/27/2014	6,560.0	6,562.0	Miss Lime, Original Hole
5/27/2014	6,602.0	6,604.0	Miss Lime, Original Hole
5/27/2014	6,660.0	6,662.0	Miss Lime, Original Hole



## Well Master Completion Summary

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Township 33	Twntshp N/S Dir S	Range 6	Range E/W Dir W	Section 1	Section Suf	Field Name WETHINGTON			

### Perforations

Date	Top (ftKB)	Bltn (ftKB)	Zone
5/27/2014	6,773.0	6,775.0	Miss Lime, Original Hole
5/27/2014	6,858.0	6,860.0	Miss Lime, Original Hole
5/27/2014	6,923.0	6,925.0	Miss Lime, Original Hole
5/27/2014	6,973.0	6,975.0	Miss Lime, Original Hole
5/27/2014	7,048.0	7,050.0	Miss Lime, Original Hole
5/27/2014	7,138.0	7,140.0	Miss Lime, Original Hole
5/27/2014	7,203.0	7,205.0	Miss Lime, Original Hole
5/27/2014	7,276.0	7,278.0	Miss Lime, Original Hole
5/26/2014	7,483.0	7,485.0	Miss Lime, Original Hole
5/26/2014	7,528.0	7,530.0	Miss Lime, Original Hole
5/26/2014	7,580.0	7,582.0	Miss Lime, Original Hole
5/26/2014	7,645.0	7,647.0	Miss Lime, Original Hole
5/26/2014	7,698.0	7,700.0	Miss Lime, Original Hole
5/26/2014	7,764.0	7,766.0	Miss Lime, Original Hole
5/26/2014	7,838.0	7,840.0	Miss Lime, Original Hole
5/26/2014	7,898.0	7,900.0	Miss Lime, Original Hole
5/26/2014	7,968.0	7,970.0	Miss Lime, Original Hole
5/26/2014	8,020.0	8,022.0	Miss Lime, Original Hole
5/26/2014	8,076.0	8,078.0	Miss Lime, Original Hole
5/26/2014	8,138.0	8,140.0	Miss Lime, Original Hole
5/26/2014	8,195.0	8,197.0	Miss Lime, Original Hole
5/26/2014	8,296.0	8,298.0	Miss Lime, Original Hole
5/26/2014	8,380.0	8,382.0	Miss Lime, Original Hole
5/26/2014	8,465.0	8,467.0	Miss Lime, Original Hole
5/26/2014	8,544.0	8,546.0	Miss Lime, Original Hole
5/26/2014	8,602.0	8,604.0	Miss Lime, Original Hole
5/26/2014	8,670.0	8,672.0	Miss Lime, Original Hole

### Production Failures

Failure Date	Cause	User Text 2
Failed Item		Failed Item Depth (ftKB)
Comment		