Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1176147

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Chelsey Green
Phone: (405) 429-5500
CONTRACTOR: License # 34464
Name: Lariat Services, Inc. dba Chaparral Supply, Hondo Heavy Haul
Wellsite Geologist: Hanna Thornberg
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 #:

10/3/2013 Spud Date or Recompletion Date
10/17/2013 Date Reached TD
11/26/2013 Completion Date or Recompletion Date

API No. 15 - 15-077-21967-01-00
Spot Description:
S2 - S2 - SE - SW Sec. 2 Twp. 33 S. R. 6 ☐ East ☑ West
200 Feet from ☐ North / ☑ South Line of Section
1980 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: Henry 3306 Well #: 1-2H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1324 Kelly Bushing: 1345
Total Vertical Depth: 8860 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 565 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: 15000 ppm Fluid volume: 2080 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Texoma Tank Services (soil farm)
Lease Name: unnamed License #: 99999
Quarter NW Sec. 2 Twp. 27 S. R. 7 ☐ East ☑ West
County: Grant (OK) Permit #: 13-24540

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: 01/30/2014
☑ **Confidential Release Date:** 01/30/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/31/2014

[redacted] 1176147

Operator Name: SandRidge Exploration and Production LLC Lease Name: Henry 3306 Well #: 1-2H

Sec. 2 Twp. 33 S. R. 6 ☐ East ☑ West County: Harper

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Conductor	30	20	75	60	grout	13	none
Surface	12.25	9.625	36	565	Permium Plus / C	280	6% gel, 2% Calcium Chloride, .25pps cel
Intermediate	8.75	7	26	5103	50/50 Poz / Premium	320	4% gel, 0.2% FL-17, 0.1% C-51, 0.4% C-

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

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

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 1-2H
Doc ID	1176147

All Electric Logs Run

Boresight
Prizm
Porosity
Mud

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 1-2H
Doc ID	1176147

Tops

Name	Top	Datum
Base Heebner	3164	
Lansing	3516	
Cottage Grove	3763	
Swope	3950	
Hertha	3970	
Oswego	4106	
Pawnee	4174	
Cherokee	4249	
Verdigris	4271	
Mississippi Lime	4600	

Form	ACO1 - Well Completion
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Doc ID	1176147

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8424-8766	36 bbls 15% HCL, 6341 bbls slickwater, TLTR 6094 bbls	
5	8122-8362	36 bbls 15% HCL, 6179 bbls slickwater, TLTR 11997 bbls	
5	7696-8005	36 bbls 15% HCL, 6120 bbls slickwater, TLTR 17824 bbls	
5	7348-7627	36 bbls 15% HCL, 6062 bbls slickwater, TLTR 23347 bbls	
5	7046-7250	36 bbls 15% HCL, 5937 bbls slickwater, TLTR 29066 bbls	
5	6668-6964	36 bbls 15% HCL, 6023 bbls slickwater, TLTR 34860 bbls	
5	6256-6550	36 bbls 15% HCL, 6124 bbls slickwater, TLTR 40541 bbls	
5	5863-6166	36 bbls 15% HCL, 6075 bbls slickwater, TLTR 46299 bbls	
5	5551-5802	36 bbls 15% HCL, 5118 bbls slickwater, TLTR 51501 bbls	
5	5188-5450	36 bbls 15% HCL, 5835 bbls slickwater, TLTR 57218 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 1-2H
Doc ID	1176147

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	60	grout	13	none
Surface	12.25	9.625	36	565	Permium Plus / C	280	6% gel, 2% Calcium Chloride, .25pps cello-flake, 0.5% C-41P
Intermediate	8.75	7	26	5103	50/50 Poz / Premium	320	4% gel, 0.2% FL-17, 0.1% C-51, 0.4% C-41P, 0.1% C-20

Standard Wellpath Report
Sandridge
Sec 2 - 33S - 6W, Kansas
Harper County
Wellbore: Henry 3306 1-2H (Actual)

Wellbore

Name	Created	Last Revised
Henry 3306 1-2H (Actual)	2-Oct-2013	18-Oct-2013

Well

Name	Government ID	Last Revised
Henry 3306 1-2H		2-Oct-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Henry 3306 1-2H	193577.0000	2162789.0000	N37 11 49.0550	W97 56 28.1002	5035.95S	2082.98E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2160706.0000	198613.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 2 - 33S - 6W	2160706.0000	198613.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments

FINAL SURVEY:
MD 8860 is a projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Henry 3306 1-2H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 358.800 degrees
Bottom hole distance is 4748.03 Feet on azimuth 358.80 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 18-Oct-2013

Standard Wellpath Report
Sandridge
Sec 2 - 33S - 6W, Kansas
Harper County
Wellbore: Henry 3306 1-2H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	2162789.00	193577.00
775.00	1.00	87.500	774.96	0.29N	6.76E	0.13	0.15	2162795.76	193577.30
959.00	1.20	74.200	958.93	0.89N	10.21E	0.18	0.68	2162799.21	193577.89
1416.00	1.00	84.500	1415.84	2.57N	18.79E	0.06	2.18	2162807.79	193579.57
1878.00	1.00	95.000	1877.77	2.61N	26.82E	0.04	2.05	2162815.82	193579.61
2258.00	0.80	116.900	2257.73	1.12N	32.49E	0.10	0.44	2162821.49	193578.12
2732.00	0.50	95.200	2731.70	0.56S	37.50E	0.08	-1.35	2162826.50	193576.44
3207.00	0.60	88.900	3206.67	0.70S	42.05E	0.02	-1.58	2162831.05	193576.30
3650.00	0.70	85.300	3649.65	0.44S	47.06E	0.02	-1.42	2162836.06	193576.56
3682.00	0.50	70.300	3681.64	0.37S	47.39E	0.79	-1.37	2162836.39	193576.63
3714.00	2.10	9.800	3713.64	0.25N	47.62E	5.95	-0.75	2162836.62	193577.25
3745.00	4.40	4.400	3744.58	2.00N	47.81E	7.48	0.99	2162836.81	193579.00
3777.00	6.70	2.100	3776.43	5.09N	47.97E	7.22	4.08	2162836.97	193582.09
3809.00	9.20	1.000	3808.12	9.51N	48.09E	7.83	8.50	2162837.09	193586.51
3840.00	12.00	0.200	3838.59	15.21N	48.14E	9.04	14.20	2162837.14	193592.21
3872.00	14.60	358.100	3869.73	22.57N	48.02E	8.26	21.56	2162837.02	193599.57
3904.00	17.00	354.100	3900.52	31.26N	47.40E	8.23	30.26	2162836.40	193608.26
3935.00	19.10	353.400	3929.99	40.80N	46.35E	6.81	39.82	2162835.35	193617.80
3967.00	21.40	355.300	3960.01	51.82N	45.27E	7.47	50.86	2162834.27	193628.82
3999.00	23.30	357.300	3989.61	63.96N	44.50E	6.39	63.02	2162833.50	193640.97
4030.00	25.10	358.400	4017.88	76.66N	44.02E	5.99	75.72	2162833.03	193653.66
4062.00	27.40	358.200	4046.58	90.81N	43.60E	7.19	89.87	2162832.60	193667.81
4093.00	30.10	359.100	4073.76	105.71N	43.26E	8.82	104.78	2162832.26	193682.71
4125.00	32.40	0.100	4101.11	122.31N	43.15E	7.37	121.38	2162832.15	193699.31
4157.00	34.30	359.500	4127.84	139.90N	43.08E	6.03	138.97	2162832.08	193716.90
4189.00	36.40	357.100	4153.94	158.40N	42.52E	7.87	157.48	2162831.52	193735.41
4220.00	39.40	355.500	4178.40	177.40N	41.29E	10.18	176.50	2162830.29	193754.41
4252.00	42.80	355.300	4202.51	198.37N	39.60E	10.63	197.50	2162828.60	193775.37
4283.00	46.40	354.900	4224.58	220.05N	37.74E	11.65	219.21	2162826.74	193797.05
4315.00	49.60	354.800	4245.99	243.73N	35.60E	10.00	242.93	2162824.60	193820.74
4347.00	52.00	355.400	4266.21	268.44N	33.49E	7.64	267.68	2162822.49	193845.44
4378.00	54.70	356.300	4284.72	293.24N	31.69E	9.02	292.51	2162820.69	193870.25
4410.00	57.80	356.600	4302.49	319.80N	30.04E	9.72	319.10	2162819.04	193896.80
4442.00	60.20	357.300	4318.97	347.18N	28.59E	7.73	346.51	2162817.59	193924.19
4473.00	63.40	357.200	4333.62	374.47N	27.28E	10.33	373.82	2162816.28	193951.47
4505.00	66.20	357.100	4347.24	403.38N	25.84E	8.75	402.76	2162814.84	193980.39
4537.00	69.30	357.300	4359.36	432.96N	24.39E	9.70	432.36	2162813.39	194009.97
4568.00	72.30	358.100	4369.55	462.21N	23.22E	9.98	461.62	2162812.22	194039.22
4600.00	75.10	358.300	4378.53	492.91N	22.25E	8.77	492.33	2162811.25	194069.91
4632.00	77.90	357.900	4386.00	524.00N	21.22E	8.83	523.44	2162810.22	194101.01
4663.00	79.90	357.400	4391.97	554.40N	19.97E	6.64	553.86	2162808.97	194131.40
4695.00	82.40	357.000	4396.89	585.97N	18.43E	7.91	585.46	2162807.43	194162.98
4727.00	84.50	356.900	4400.54	617.72N	16.74E	6.57	617.23	2162805.74	194194.73
4758.00	86.60	357.000	4402.95	648.58N	15.09E	6.78	648.12	2162804.09	194225.59
4790.00	87.50	357.300	4404.60	680.50N	13.50E	2.96	680.07	2162802.50	194257.51
4822.00	87.60	356.900	4405.96	712.43N	11.89E	1.29	712.02	2162800.89	194289.44
4853.00	87.40	356.700	4407.32	743.35N	10.16E	0.91	742.97	2162799.16	194320.36
4885.00	87.30	356.600	4408.79	775.26N	8.29E	0.44	774.92	2162797.29	194352.27
4916.00	87.20	356.500	4410.28	806.17N	6.43E	0.46	805.86	2162795.43	194383.18
4948.00	87.20	356.700	4411.85	838.07N	4.53E	0.62	837.80	2162793.53	194415.08
4980.00	87.00	356.600	4413.46	869.98N	2.66E	0.70	869.73	2162791.66	194446.99
5011.00	87.00	356.500	4415.09	900.88N	0.80E	0.32	900.67	2162789.80	194477.89
5058.00	86.90	355.700	4417.59	947.70N	2.39W	1.71	947.55	2162786.61	194524.72
5204.00	89.00	355.900	4422.81	1093.21N	13.08W	1.44	1093.24	2162775.92	194670.22
5268.00	89.60	355.100	4423.59	1157.01N	18.10W	1.56	1157.13	2162770.90	194734.02
5359.00	90.70	356.400	4423.35	1247.75N	24.84W	1.87	1248.00	2162764.16	194824.77
5451.00	91.30	358.200	4421.75	1339.63N	29.18W	2.06	1339.95	2162759.82	194916.65
5542.00	90.80	358.900	4420.08	1430.59N	31.48W	0.95	1430.93	2162757.52	195007.61
5634.00	90.50	358.200	4419.04	1522.55N	33.81W	0.83	1522.93	2162755.19	195099.57
5726.00	90.80	358.300	4417.99	1614.50N	36.61W	0.34	1614.92	2162752.38	195191.52
5817.00	89.80	359.400	4417.52	1705.48N	38.44W	1.63	1705.91	2162750.56	195282.50
5909.00	90.60	358.700	4417.20	1797.47N	39.97W	1.16	1797.91	2162749.03	195374.49
6000.00	90.20	0.000	4416.56	1888.46N	41.00W	1.49	1888.90	2162748.00	195465.48
6092.00	89.80	0.100	4416.56	1980.46N	40.92W	0.45	1980.88	2162748.08	195557.48
6183.00	90.20	359.500	4416.56	2071.46N	41.24W	0.79	2071.86	2162747.76	195648.48
6275.00	90.50	359.800	4416.00	2163.45N	41.80W	0.46	2163.85	2162747.20	195740.48
6367.00	90.60	0.100	4415.11	2255.45N	41.88W	0.34	2255.83	2162747.12	195832.48
6458.00	89.70	359.300	4414.88	2346.44N	42.35W	1.32	2346.82	2162746.64	195923.47
6550.00	89.80	359.600	4415.28	2438.44N	43.24W	0.34	2438.81	2162745.76	196015.47
6641.00	89.90	359.500	4415.52	2529.44N	43.95W	0.16	2529.80	2162745.05	196106.47
6733.00	89.10	358.000	4416.32	2621.41N	45.96W	1.85	2621.79	2162743.04	196198.44
6824.00	90.50	356.200	4416.64	2712.28N	50.56W	2.51	2712.75	2162738.44	196289.32

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Henry 3306 1-2H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 358.800 degrees
Bottom hole distance is 4748.03 Feet on azimuth 358.80 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 18-Oct-2013

Standard Wellpath Report
Sandridge
Sec 2 - 33S - 6W, Kansas
Harper County
Wellbore: Henry 3306 1-2H (Actual)

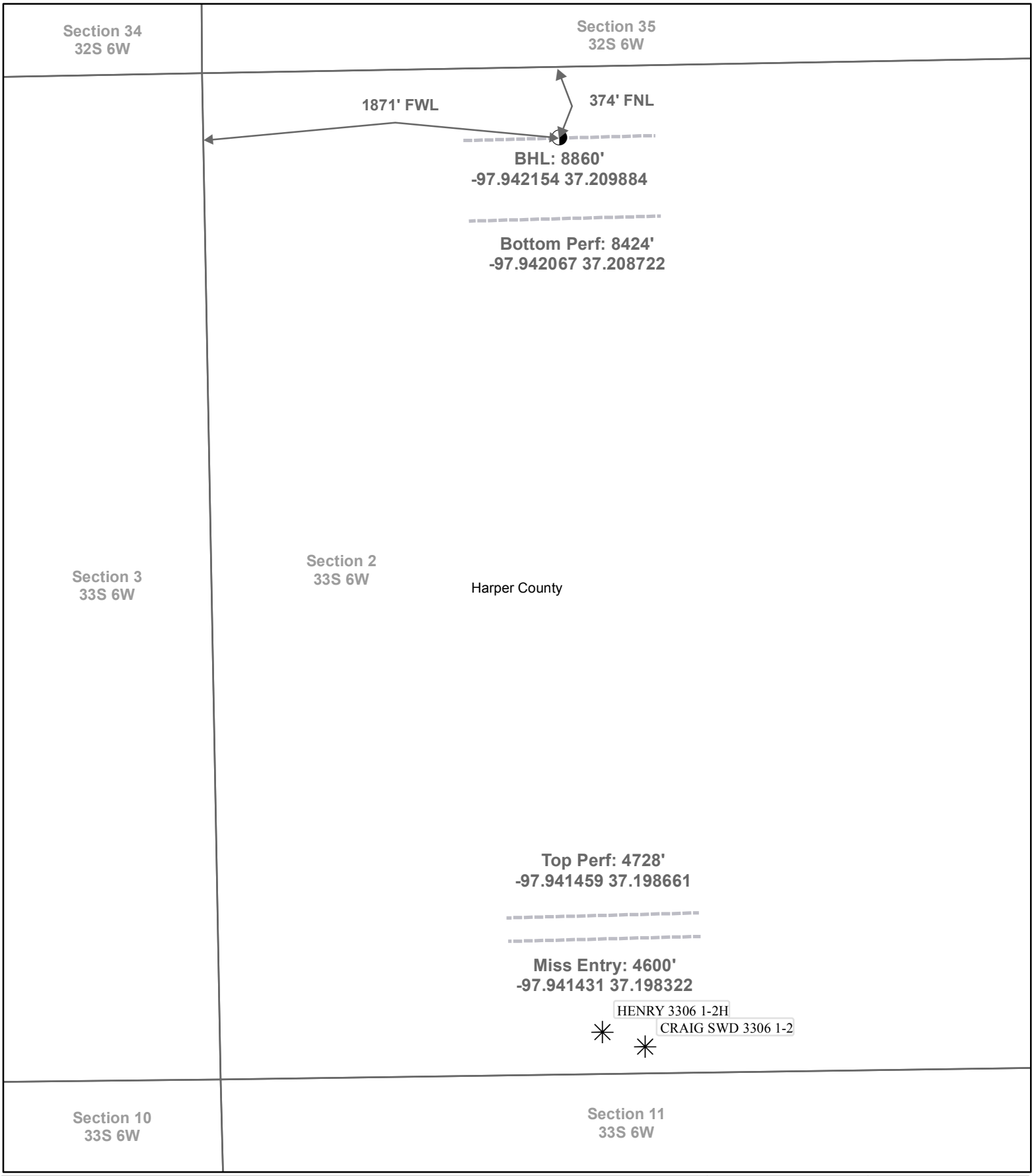
Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6916.00	91.00	356.800	4415.43	2804.10N	56.18W	0.85	2804.67	2162732.82	196381.14
7008.00	90.80	357.800	4413.99	2895.99N	60.51W	1.11	2896.62	2162728.49	196473.02
7103.00	90.40	358.300	4412.99	2990.93N	63.74W	0.67	2991.61	2162725.25	196567.97
7197.00	89.40	359.100	4413.16	3084.90N	65.88W	1.36	3085.60	2162723.12	196661.94
7292.00	89.20	359.200	4414.32	3179.88N	67.29W	0.24	3180.60	2162721.71	196756.92
7387.00	89.60	358.900	4415.31	3274.87N	68.86W	0.53	3275.59	2162720.14	196851.91
7482.00	89.60	357.800	4415.98	3369.82N	71.60W	1.16	3370.58	2162717.40	196946.86
7577.00	90.70	358.100	4415.73	3464.76N	74.99W	1.20	3465.57	2162714.00	197041.80
7672.00	90.00	359.000	4415.15	3559.73N	77.40W	1.20	3560.57	2162711.60	197136.77
7767.00	90.80	358.400	4414.48	3654.70N	79.55W	1.05	3655.56	2162709.45	197231.74
7862.00	90.20	358.900	4413.65	3749.67N	81.79W	0.82	3750.56	2162707.21	197326.71
7957.00	91.20	359.000	4412.49	3844.64N	83.53W	1.06	3845.55	2162705.47	197421.69
8052.00	89.80	0.800	4411.66	3939.63N	83.70W	2.40	3940.52	2162705.30	197516.68
8147.00	89.10	0.900	4412.58	4034.62N	82.29W	0.74	4035.46	2162706.71	197611.67
8242.00	87.40	0.100	4415.48	4129.57N	81.46W	1.98	4130.37	2162707.54	197706.62
8337.00	88.40	359.300	4418.96	4224.50N	81.96W	1.35	4225.29	2162707.04	197801.55
8432.00	89.20	359.300	4420.95	4319.47N	83.12W	0.84	4320.26	2162705.88	197896.52
8527.00	89.30	359.100	4422.19	4414.45N	84.44W	0.24	4415.25	2162704.55	197991.51
8622.00	90.00	358.200	4422.77	4509.42N	86.68W	1.20	4510.25	2162702.32	198086.48
8717.00	91.20	356.600	4421.78	4604.31N	90.99W	2.11	4605.21	2162698.01	198181.37
8811.00	92.10	356.600	4419.07	4698.11N	96.56W	0.96	4699.10	2162692.44	198275.17
8860.00	92.10	356.600	4417.27	4746.99N	99.47W	==>	4748.03	2162689.53	198324.05

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Henry 3306 1-2H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 358.800 degrees
Bottom hole distance is 4748.03 Feet on azimuth 358.80 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 18-Oct-2013

Standard Wellpath Report
Sandridge
Sec 2 - 33S - 6W, Kansas
Harper County
Wellbore: Henry 3306 1-2H (Actual)

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Henry 3306 1-2H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 358.800 degrees
Bottom hole distance is 4748.03 Feet on azimuth 358.80 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 18-Oct-2013



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Henry 3306 1-2H
Harper County, Kansas
T&R: 33S 6W
Section: 2, 1871' FWL & 374' FNL
-97.942154 37.209884

1 in = 667 ft

0 500 1,000 2,000 Feet

N

Draftsman: Aaron Birk	Draft Date: 1/8/2014
Drawing Name/Number: Addendum_Henry 3306 1-2H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

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

TICKET

TICKET NUMBER: WY-129-1
TICKET DATE: 10/03/2013

ELECTRONIC

SANDRIDGE ENERGY
***** BILL IN ADP!! *****
123 ROBERT S KERR AVE
OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
LEASE: Henry 3306
WELL#: 1-2H
RIG #: Lariat 45
Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
10/2-3/2013 DRILLED 30" CONDUCTOR HOLE			
10/2-3/2013 20" CONDUCTOR PIPE (.250 WALL)			
10/2-3/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
10/2-3/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
10/2-3/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
10/2-3/2013 16" CONDUCTOR PIPE (.250 WALL)			
10/2-3/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
10/2-3/2013 WELDING SERVICES FOR PIPE & LIDS			
10/2-3/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
10/2-3/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
10/2-3/2013 13 YDS OF 10 SACK GROUT			
10/2-3/2013 TAXABLE ITEMS			5,280.00
10/2-3/2013 BID - TAXABLE ITEMS			11,670.00

Sub Total:	16,950.00
Tax HARPER COUNTY (6.3 %):	332.64
TICKET TOTAL:	$ 17,282.64

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

Approved Signature _____

AFE Number: DC 13067
Well Name: Henry 3306 1-2H
Code: 850.010
Amount: 17,282.64
Co. Man: Emil Claude Hallmark
Co. Man Sig.: Claude Hallmark
Notes:

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3075	10/07/13

COUNTY	State	COMPANY	CUSTOMER REP
Harper	Kansas	dridge Exploration & Produc	Claude Hallmark

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Henry 3306	1-2H	Surface	LOUIS ARNEY

EMP NAME								
L.ARNEY		0						
M. QUINTANA								
D. TEWELL								
F. HELKENA								

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 600

	Called Out	On Location	Job Started	Job Completed
Date	10/6/2013	10/7/2013	10/7/2013	10/7/2013
Time	2000	0500	1656	1739

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36#	9⅝"		Surface	600	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12¼"		Surface	600	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 10		8.33
Spacer type		BBL.		
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
10/7	13.0
Total	13.0

Operating Hours

Date	Hours
10/7	0.8
Total	0.8

Description of Job

Surface

Pressures

MAX 1,500 PSI AVG. 150

Average Rates in BPM

MAX 6 BPM AVG 4

Cement Left in Pipe

Feet 46 Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	170	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - ¼pps Cello-Flake - .5% C-41P	11.11	2.01	12.40
2	110	Premium Plus (Class C)	2% Calcium Chloride - ¼pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary

Preflush		Type:		Preflush: BBl	10.00	Type:	Fresh Water
Breakdown		MAXIMUM	1,500 PSI	Load & Bkdn: Gal - BBl	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	NO/FULL	Excess /Return BBl	41	Calc.Disp Bbl	41
		Actual TOC	SURFACE	Calc. TOC:	SURFACE	Actual Disp.	39.00
Average		Bump Plug PSI:	600	Final Circ. PSI:	200	Disp:Bbl	
ISIP _____	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry: BBl	87.0		
				Total Volume BBl	136.00		

CUSTOMER REPRESENTATIVE Claude Hallmark

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3099	10/13/13

COUNTY	State	COMPANY	CUSTOMER REP
Harper	Oklahoma	Sandridge Exploration & Production	Claude Hallmark

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Henry 3306	1-2H	Intermediate	Arthur Setzer

EMP NAME							
Arthur Setzer		0					
Jared Green							
Robert Stonehocker							
Bryan Douglas							

Form. Name _____ Type: _____

Packer Type _____ Set At 3,700'

Bottom Hole Temp. 130 Pressure _____

Retainer Depth _____ Total Depth 5,104'

	Called Out	On Location	Job Started	Job Completed
Date	10/13/2013	10/13/2013	10/13/2013	10/13/2013
Time	0900	1600	1730	2000

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,103	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8¾"		Surface	5,129'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	Fresh Wate	BBL. 20		8.33
Spacer type	Caustic	BBL. 10		8.40
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
10/13	4.0
Total	4.0

Operating Hours

Date	Hours
10/13	3.0
Total	3.0

Description of Job

Intermediate

Pressures

MAX 5,000 PSI AVG. 600

Average Rates in BPM

MAX 8 BPM AVG 5

Cement Left in Pipe

Feet 89 Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	220	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0	0	0.00	0.00	0.00

Summary

Preflush	10	Type:	Caustic	Preflush: BBl	30.00	Type:	9.0 PPG Gel Spacer
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn: Gal - BBl	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	NO/FULL	Excess /Return BBl	N/A	Calc.Disp Bbl	192
		Actual TOC		Calc. TOC:	3,150	Actual Disp.	192.00
Average		Bump Plug PSI:		Final Circ. PSI:	500	Disp:Bbl	192.00
ISIP _____	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry BBl	77.0		
				Total Volume BBl	299.00		

CUSTOMER REPRESENTATIVE Claud Hallm

SIGNATURE