Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1252752

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: Wanda Ledbetter
Phone: (405) 429-5500
CONTRACTOR: License # 34464
Name: Lariat Services, Inc. dba Chaparral, Drilling, Fluids
Wellsite Geologist: Bob Wilcox
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 #:

2/23/2015	3/15/2015	4/11/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-22133-01-00
Spot Description:
NE - NW - NW - NE Sec. 15 Twp. 34 S. R. 8 ☐ East ☑ West
230 Feet from ☑ North / ☐ South Line of Section
2004 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: Dusenbury 3408 Well #: 1-10H
Field Name: Wharton
Producing Formation: Mississippi
Elevation: Ground: 1388 Kelly Bushing: 1406
Total Vertical Depth: 4686 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 781 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: 8456 ppm Fluid volume: 4890 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:
Operator Name: Plainview Disposal LLC
Lease Name: unknown License #: 99999
Quarter SW Sec. 4 Twp. 27 S. R. 19 ☐ East ☑ West
County: Woods County, OK Permit #: 635733

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: 06/02/2015
☑ **Confidential Release Date:** 06/01/2017
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 06/04/2015

[redacted]

1252752

Operator Name: SandRidge Exploration and Production LLC Lease Name: Dusenbury 3408 Well #: 1-10H

Sec. 15 Twp. 34 S. R. 8 ☐ 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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

List All E. Logs Run:

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

Name Attached Top Attached Datum 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	100	grout	10	none
Surface	12.25	9.625	36	781	Class A Blend	405	see report
Intermediate	8.5	7	26	5263	Class A	340	see report

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

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
1	4691-4737		

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: 4691-4737

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Dusenbury 3408 1-10H
Doc ID	1252752

Tops

Name	Top	Datum
Base Heebner	3506	-2118
Cottage Grove	4117	-2729
Oswego	4436	-3048
Pawnee	4488	-3100
Cherokee	4548	-3168
Verdigris	4585	-3197
Red Fork	4616	-3228
Mississippi	4696	-3308

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Dusenbury 3408 1-10H
Doc ID	1252752

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	100	grout	10	none
Surface	12.25	9.625	36	781	Class A Blend	405	see report
Intermediate	8.5	7	26	5263	Class A	340	see report

Sandridge Energy

DrillRight TECHNOLOGY, INC.

SECTION DETAILS

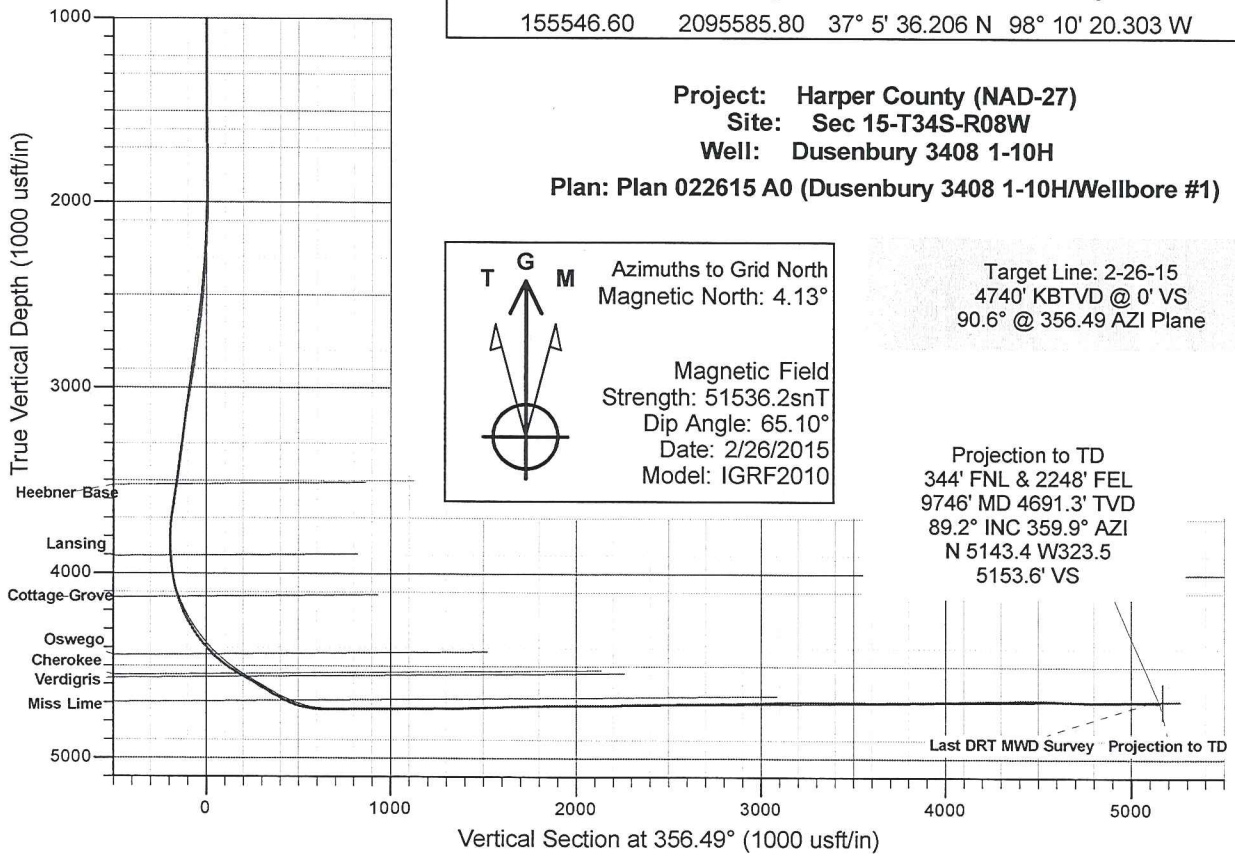
MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2606.5	12.13	228.27	2602.0	-42.6	-47.7	2.00	228.27	-39.6	Start 1157.8 hold at 2606.5 MD
3764.3	12.13	228.27	3733.9	-204.5	-229.3	0.00	0.00	-190.1	Start DLS 7.00 TFO 135.97
4741.8	60.00	360.00	4556.3	199.6	-316.6	7.00	135.97	218.6	Start 200.0 hold at 4741.8 MD
4941.8	60.00	360.00	4656.3	372.8	-316.6	0.00	0.00	391.5	Start DLS 10.00 TFO 0.00
5247.8	90.60	0.00	4733.0	665.3	-316.6	10.00	0.00	683.4	Landing Point
9742.0	90.60	0.00	4685.9	5159.2	-316.4	0.00	61.15	5168.9	TD at 9742.0

WELL DETAILS: Dusenbury 3408 1-10H

Ground Level: 1388.0

Northing	Easting	Latittude	Longitude
155546.60	2095585.80	37° 5' 36.206 N	98° 10' 20.303 W

Project: Harper County (NAD-27)
Site: Sec 15-T34S-R08W
Well: Dusenbury 3408 1-10H
Plan: Plan 022615 A0 (Dusenbury 3408 1-10H/Wellbore #1)

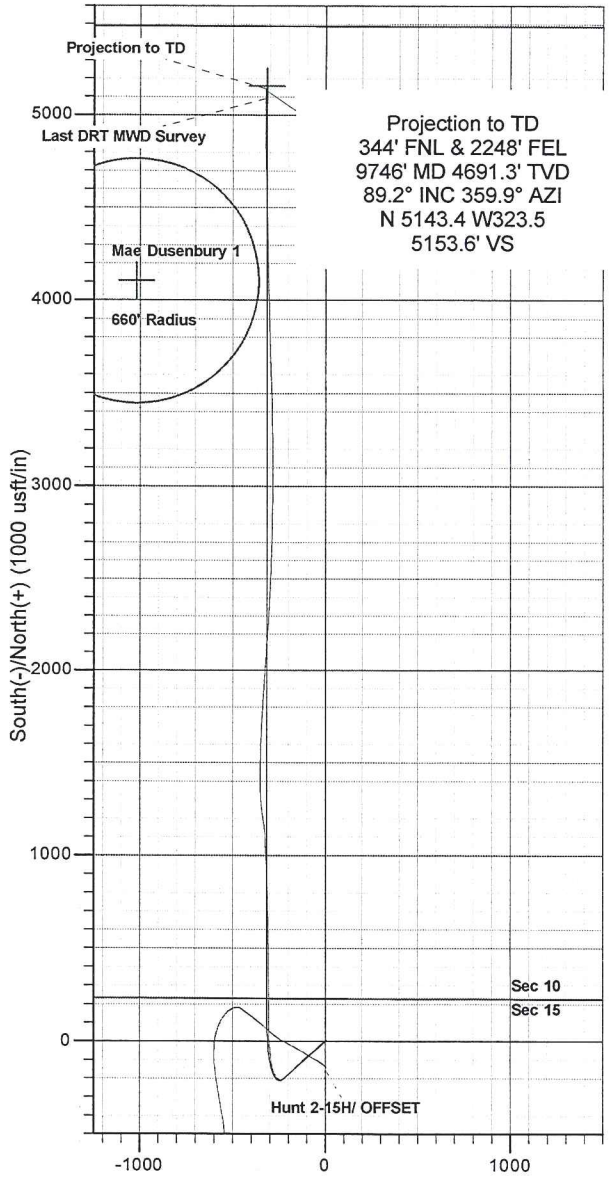


Azimuths to Grid North
Magnetic North: 4.13°

Magnetic Field
Strength: 51536.2snT
Dip Angle: 65.10°
Date: 2/26/2015
Model: IGRF2010

Target Line: 2-26-15
4740' KBTVD @ 0' VS
90.6° @ 356.49 AZI Plane

Projection to TD
344' FNL & 2248' FEL
9746' MD 4691.3' TVD
89.2° INC 359.9° AZI
N 5143.4 W323.5
5153.6' VS



Projection to TD
344' FNL & 2248' FEL
9746' MD 4691.3' TVD
89.2° INC 359.9° AZI
N 5143.4 W323.5
5153.6' VS

SandRidge ENERGY

DrillRight
Survey Report

Company:	Sandridge Energy	**Local Co-ordinate Reference:**	Well Dusenbury 3408 1-10H
Project:	Harper County (NAD-27)	**TVD Reference:**	KB @ 1406.0usft
Site:	Sec 15-T34S-R08W	**MD Reference:**	KB @ 1406.0usft
Well:	Dusenbury 3408 1-10H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Project Harper County (NAD-27)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site Sec 15-T34S-R08W

Site Position:		**Northing:**	150,503.00 usft	**Latitude:**	37° 4' 46.450 N
From:	Map	**Easting:**	2,092,345.00 usft	**Longitude:**	98° 11' 0.512 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.19 °

Well Dusenbury 3408 1-10H

Well Position	**+N/-S**	0.0 usft	**Northing:**	155,546.60 usft	**Latitude:**	37° 5' 36.206 N
	+E/-W	0.0 usft	**Easting:**	2,095,585.80 usft	**Longitude:**	98° 10' 20.303 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	1,388.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/26/2015	4.33	65.10	51,536

Design Wellbore #1

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	356.49

Survey Program Date 3/16/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
828.0	9,746.0	Drillright MWD Surveys (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
828.0	0.10	78.60	828.0	0.1	0.7	0.1	0.01	0.01	0.00
First DRT MWD Survey									
1,111.0	0.30	43.90	1,111.0	0.7	1.5	0.6	0.08	0.07	-12.26
1,395.0	0.60	26.00	1,395.0	2.6	2.6	2.4	0.12	0.11	-6.30
1,678.0	0.70	46.30	1,678.0	5.1	4.5	4.8	0.09	0.04	7.17
1,961.0	0.70	41.20	1,960.9	7.6	6.9	7.2	0.02	0.00	-1.80
2,055.0	2.30	226.50	2,054.9	6.8	5.9	6.4	3.19	1.70	-185.85
2,150.0	4.00	231.50	2,149.8	3.4	2.0	3.3	1.81	1.79	5.26
2,245.0	5.80	236.10	2,244.4	-1.4	-4.6	-1.1	1.94	1.89	4.84
2,339.0	6.80	233.10	2,337.9	-7.4	-13.0	-6.5	1.12	1.06	-3.19

DrillRight

Survey Report

Company:	Sandridge Energy	**Local Co-ordinate Reference:**	Well Dusenbury 3408 1-10H
Project:	Harper County (NAD-27)	**TVD Reference:**	KB @ 1406.0usft
Site:	Sec 15-T34S-R08W	**MD Reference:**	KB @ 1406.0usft
Well:	Dusenbury 3408 1-10H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,434.0	7.20	227.40	2,432.2	-14.8	-21.9	-13.4	0.84	0.42	-6.00
2,529.0	7.70	228.00	2,526.4	-23.0	-31.0	-21.1	0.53	0.53	0.63
2,624.0	9.10	228.70	2,620.3	-32.3	-41.4	-29.7	1.48	1.47	0.74
2,718.0	11.70	228.50	2,712.8	-43.5	-54.1	-40.1	2.77	2.77	-0.21
2,812.0	15.00	229.90	2,804.2	-57.6	-70.6	-53.2	3.53	3.51	1.49
2,907.0	15.90	229.20	2,895.8	-74.1	-89.8	-68.4	0.97	0.95	-0.74
3,002.0	15.10	227.30	2,987.3	-91.0	-108.8	-84.1	1.00	-0.84	-2.00
3,097.0	12.70	223.80	3,079.6	-106.9	-125.1	-99.0	2.68	-2.53	-3.68
3,192.0	11.40	230.00	3,172.5	-120.5	-139.5	-111.7	1.93	-1.37	6.53
3,286.0	10.60	226.80	3,264.7	-132.4	-152.9	-122.7	1.07	-0.85	-3.40
3,380.0	11.90	224.00	3,356.9	-145.2	-166.0	-134.8	1.50	1.38	-2.98
3,475.0	11.80	223.60	3,449.9	-159.3	-179.5	-148.0	0.14	-0.11	-0.42
3,569.0	13.70	229.40	3,541.6	-173.5	-194.5	-161.3	2.43	2.02	6.17
3,664.0	13.40	228.70	3,633.9	-188.1	-211.4	-174.8	0.36	-0.32	-0.74
3,695.0	13.00	226.20	3,664.1	-192.9	-216.6	-179.3	2.25	-1.29	-8.06
3,727.0	11.60	223.70	3,695.4	-197.7	-221.4	-183.8	4.68	-4.38	-7.81
3,758.0	10.60	230.40	3,725.8	-201.8	-225.7	-187.6	5.26	-3.23	21.61
3,789.0	9.80	240.80	3,756.3	-204.9	-230.2	-190.4	6.47	-2.58	33.55
3,821.0	9.00	251.70	3,787.9	-207.0	-235.0	-192.2	6.09	-2.50	34.06
3,852.0	7.40	266.10	3,818.6	-207.9	-239.3	-192.9	8.36	-5.16	46.45
3,884.0	6.70	279.30	3,850.3	-207.7	-243.2	-192.5	5.50	-2.19	41.25
3,915.0	7.80	293.50	3,881.1	-206.6	-246.9	-191.1	6.76	3.55	45.81
3,947.0	9.60	297.10	3,912.7	-204.5	-251.3	-188.8	5.87	5.63	11.25
3,978.0	10.30	305.30	3,943.3	-201.8	-255.8	-185.7	5.09	2.26	26.45
4,010.0	10.20	315.40	3,974.7	-198.1	-260.2	-181.8	5.62	-0.31	31.56
4,041.0	11.00	323.60	4,005.2	-193.7	-263.8	-177.2	5.50	2.58	26.45
4,073.0	12.10	331.40	4,036.6	-188.3	-267.3	-171.6	5.96	3.44	24.38
4,104.0	13.30	335.70	4,066.8	-182.2	-270.3	-165.4	4.93	3.87	13.87
4,136.0	14.30	339.80	4,097.9	-175.2	-273.2	-158.1	4.37	3.13	12.81
4,167.0	16.10	341.40	4,127.8	-167.5	-275.9	-150.3	5.96	5.81	5.16
4,199.0	19.00	343.90	4,158.3	-158.3	-278.7	-140.9	9.36	9.06	7.81
4,230.0	22.00	345.70	4,187.3	-147.8	-281.5	-130.3	9.89	9.68	5.81
4,262.0	25.10	347.40	4,216.7	-135.4	-284.5	-117.7	9.92	9.69	5.31
4,293.0	28.10	348.80	4,244.4	-121.8	-287.4	-104.0	9.89	9.68	4.52
4,325.0	30.50	350.60	4,272.3	-106.4	-290.2	-88.4	7.99	7.50	5.63
4,356.0	32.80	351.60	4,298.7	-90.3	-292.7	-72.2	7.61	7.42	3.23
4,388.0	34.40	351.80	4,325.3	-72.8	-295.2	-54.6	5.01	5.00	0.63
4,419.0	36.40	352.90	4,350.6	-55.0	-297.6	-36.7	6.77	6.45	3.55
4,451.0	38.80	354.60	4,376.0	-35.6	-299.7	-17.2	8.17	7.50	5.31
4,483.0	40.80	355.80	4,400.5	-15.2	-301.4	3.3	6.69	6.25	3.75
4,514.0	42.90	356.90	4,423.6	5.4	-302.7	24.0	7.18	6.77	3.55
4,546.0	45.80	357.60	4,446.5	27.8	-303.8	46.3	9.19	9.06	2.19
4,577.0	48.70	357.90	4,467.6	50.5	-304.7	69.1	9.38	9.35	0.97

DrillRight

Survey Report

Company:	Sandridge Energy	**Local Co-ordinate Reference:**	Well Dusenbury 3408 1-10H
Project:	Harper County (NAD-27)	**TVD Reference:**	KB @ 1406.0usft
Site:	Sec 15-T34S-R08W	**MD Reference:**	KB @ 1406.0usft
Well:	Dusenbury 3408 1-10H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,609.0	50.80	359.00	4,488.2	74.9	-305.4	93.5	7.07	6.56	3.44
4,640.0	53.40	359.50	4,507.3	99.4	-305.7	117.9	8.48	8.39	1.61
4,672.0	56.30	359.90	4,525.7	125.6	-305.8	144.0	9.12	9.06	1.25
4,703.0	59.10	0.30	4,542.3	151.8	-305.8	170.2	9.10	9.03	1.29
4,735.0	61.40	0.30	4,558.1	179.5	-305.6	197.9	7.19	7.19	0.00
4,766.0	61.40	359.70	4,573.0	206.8	-305.6	225.1	1.70	0.00	-1.94
4,798.0	61.00	359.40	4,588.4	234.8	-305.8	253.1	1.50	-1.25	-0.94
4,830.0	60.00	359.40	4,604.1	262.7	-306.1	280.9	3.13	-3.13	0.00
4,861.0	59.40	359.70	4,619.8	289.4	-306.3	307.6	2.11	-1.94	0.97
4,893.0	59.00	359.60	4,636.2	316.9	-306.5	335.1	1.28	-1.25	-0.31
4,924.0	58.00	358.90	4,652.4	343.3	-306.9	361.5	3.76	-3.23	-2.26
4,956.0	59.70	358.50	4,668.9	370.7	-307.5	388.8	5.42	5.31	-1.25
4,987.0	62.70	359.30	4,683.9	397.9	-308.0	416.0	9.94	9.68	2.58
5,019.0	66.40	0.00	4,697.6	426.8	-308.2	444.8	11.73	11.56	2.19
5,050.0	70.20	0.20	4,709.1	455.6	-308.1	473.6	12.27	12.26	0.65
5,082.0	74.00	0.40	4,718.9	486.0	-308.0	503.9	11.89	11.88	0.63
5,113.0	78.00	0.30	4,726.4	516.1	-307.8	533.9	12.91	12.90	-0.32
5,145.0	81.70	359.90	4,732.0	547.6	-307.7	565.4	11.63	11.56	-1.25
5,176.0	85.40	359.60	4,735.5	578.4	-307.9	596.1	11.97	11.94	-0.97
5,220.0	89.90	359.30	4,737.3	622.3	-308.3	640.0	10.25	10.23	-0.68
5,293.0	90.60	359.10	4,737.0	695.3	-309.3	712.9	1.00	0.96	-0.27
5,387.0	90.40	358.20	4,736.2	789.3	-311.5	806.9	0.98	-0.21	-0.96
5,481.0	90.80	358.10	4,735.2	883.2	-314.6	900.8	0.44	0.43	-0.11
5,575.0	90.40	357.80	4,734.2	977.2	-317.9	994.8	0.53	-0.43	-0.32
5,671.0	90.50	356.70	4,733.5	1,073.0	-322.5	1,090.8	1.15	0.10	-1.15
5,765.0	89.90	353.00	4,733.1	1,166.6	-331.0	1,184.7	3.99	-0.64	-3.94
5,855.0	90.50	352.60	4,732.8	1,255.9	-342.2	1,274.5	0.80	0.67	-0.44
5,946.0	91.70	358.30	4,731.1	1,346.6	-349.4	1,365.5	6.40	1.32	6.26
6,036.0	92.00	0.80	4,728.2	1,436.5	-350.2	1,455.3	2.80	0.33	2.78
6,126.0	91.60	0.80	4,725.3	1,526.5	-348.9	1,545.0	0.44	-0.44	0.00
6,217.0	91.80	3.40	4,722.6	1,617.4	-345.6	1,635.5	2.86	0.22	2.86
6,308.0	92.10	3.10	4,719.5	1,708.2	-340.4	1,725.8	0.47	0.33	-0.33
6,400.0	91.70	2.40	4,716.5	1,800.0	-336.0	1,817.2	0.88	-0.43	-0.76
6,491.0	90.10	3.90	4,715.1	1,890.9	-331.0	1,907.6	2.41	-1.76	1.65
6,583.0	89.20	3.40	4,715.6	1,982.7	-325.1	1,998.9	1.12	-0.98	-0.54
6,674.0	90.80	3.50	4,715.6	2,073.5	-319.7	2,089.2	1.76	1.76	0.11
6,765.0	91.20	3.60	4,714.0	2,164.3	-314.0	2,179.5	0.45	0.44	0.11
6,855.0	91.70	4.60	4,711.8	2,254.0	-307.6	2,268.7	1.24	0.56	1.11
6,945.0	91.00	2.60	4,709.6	2,343.8	-302.0	2,357.9	2.35	-0.78	-2.22
7,037.0	90.60	3.20	4,708.4	2,435.7	-297.3	2,449.3	0.78	-0.43	0.65
7,128.0	90.60	1.90	4,707.4	2,526.6	-293.3	2,539.8	1.43	0.00	-1.43
7,223.0	90.40	1.70	4,706.6	2,621.6	-290.3	2,634.4	0.30	-0.21	-0.21
7,318.0	90.50	1.90	4,705.8	2,716.5	-287.3	2,729.0	0.24	0.11	0.21

DrillRight

Survey Report

Company:	Sandridge Energy	**Local Co-ordinate Reference:**	Well Dusenbury 3408 1-10H
Project:	Harper County (NAD-27)	**TVD Reference:**	KB @ 1406.0usft
Site:	Sec 15-T34S-R08W	**MD Reference:**	KB @ 1406.0usft
Well:	Dusenbury 3408 1-10H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,412.0	91.80	1.10	4,703.9	2,810.5	-284.8	2,822.6	1.62	1.38	-0.85
7,507.0	91.40	0.30	4,701.3	2,905.4	-283.7	2,917.3	0.94	-0.42	-0.84
7,601.0	92.00	0.20	4,698.5	2,999.4	-283.3	3,011.1	0.65	0.64	-0.11
7,697.0	91.60	359.70	4,695.5	3,095.3	-283.3	3,106.9	0.67	-0.42	-0.52
7,790.0	89.10	359.30	4,694.9	3,188.3	-284.1	3,199.7	2.72	-2.69	-0.43
7,885.0	91.50	0.30	4,694.4	3,283.3	-284.5	3,294.6	2.74	2.53	1.05
7,979.0	88.50	358.40	4,694.4	3,377.3	-285.5	3,388.4	3.78	-3.19	-2.02
8,074.0	89.50	358.30	4,696.1	3,472.2	-288.3	3,483.4	1.06	1.05	-0.11
8,168.0	88.90	357.50	4,697.4	3,566.2	-291.7	3,577.3	1.06	-0.64	-0.85
8,262.0	89.70	358.50	4,698.5	3,660.1	-295.0	3,671.3	1.36	0.85	1.06
8,357.0	92.90	358.00	4,696.4	3,755.0	-297.9	3,766.2	3.41	3.37	-0.53
8,451.0	90.00	358.90	4,694.0	3,848.9	-300.4	3,860.1	3.23	-3.09	0.96
8,546.0	90.20	359.00	4,693.8	3,943.9	-302.2	3,955.0	0.24	0.21	0.11
8,640.0	91.40	357.70	4,692.5	4,037.9	-304.9	4,049.0	1.88	1.28	-1.38
8,725.6	90.94	359.07	4,690.8	4,123.4	-307.3	4,134.5	1.68	-0.53	1.60
PBHL Mae Dusenbury 1									
8,734.0	90.90	359.20	4,690.6	4,131.8	-307.4	4,142.9	1.68	-0.53	1.60
8,829.0	92.30	358.80	4,688.0	4,226.8	-309.1	4,237.7	1.53	1.47	-0.42
8,923.0	90.70	359.00	4,685.5	4,320.7	-310.9	4,331.6	1.72	-1.70	0.21
9,018.0	90.90	359.30	4,684.2	4,415.7	-312.3	4,426.5	0.38	0.21	0.32
9,112.0	88.80	359.50	4,684.4	4,509.7	-313.3	4,520.4	2.24	-2.23	0.21
9,206.0	87.60	358.60	4,687.4	4,603.6	-314.8	4,614.2	1.60	-1.28	-0.96
9,301.0	88.80	359.00	4,690.4	4,698.5	-316.8	4,709.1	1.33	1.26	0.42
9,395.0	89.70	359.00	4,691.6	4,792.5	-318.5	4,803.0	0.96	0.96	0.00
9,490.0	90.30	358.40	4,691.6	4,887.5	-320.6	4,898.0	0.89	0.63	-0.63
9,584.0	90.90	359.10	4,690.6	4,981.5	-322.7	4,991.9	0.98	0.64	0.74
9,678.0	89.40	0.00	4,690.4	5,075.5	-323.4	5,085.7	1.86	-1.60	0.96
9,694.0	89.20	359.90	4,690.6	5,091.5	-323.4	5,101.7	1.40	-1.25	-0.63
Last DRT MWD Survey									
9,746.0	89.20	359.90	4,691.3	5,143.4	-323.5	5,153.6	0.00	0.00	0.00
Projection to TD - PBHL Dusenbury 1-10H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
828.0	828.0	0.1	0.7	First DRT MWD Survey
9,694.0	4,690.6	5,091.5	-323.4	Last DRT MWD Survey
9,746.0	4,691.3	5,143.4	-323.5	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

EDGE SERVICES
580-254-3216
Woodward, OK

INVOICE

DATE	INVOICE #
2/27/2015	5519

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

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	Start Date	End Date	Work Order	Rig Number	LEASE NAME	Terms
HARPER, KS	2/26/2015		4110	LARIAT 20	DUSENBERRY 3408 1-10H	Due on rec...

Description
DRILLED 100' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 100' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 10 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID $17,500.00

AFE Number: DC 144159
Well Name: Dusenbury 3408 1-10H
Code: 850.010
Amount: $17,775.64
Co. Man: John / Carl
Co. Man Sig.: Billy Scott for John Fortune
Notes:

Sales Tax (6.15%)	$275.64
TOTAL	$17,775.64

ALLIED
OIL & GAS SERVICES, LLC

SandRidge Energy
Dusenbury #3408 1-10
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 Dusenbury #3408 1-10 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 2000 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

84 Bbls (255 sacks) lead slurry 13.2 ppg slurry
Class A AMD Blend 1.85 Yield
2% cc
¼# Floseal

32 Bbls (150 sacks) tail slurry 15.6 ppg slurry
Class A Blend 1.20 Yield
2% cc
¼# Floseal

The top plug was then released and displaced with 57 of fresh water. The plug bumped and pressured up to 800 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.

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 Dusenbury 3408 1-10H intermediate 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 3000 psi. After a successful test we began the job by pumping 30 bbls of spacer. We then mixed and pumped the following cements:

59.84 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

21.02 Bbls (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 200 Bbls of fresh water. The plug bumped and pressured up to 1100 psi. Pressure was released and floats held with 1 bbl back to the truck. Well maintained circulation throughout the job.

All real time data can be review in the chart section of the report.

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.

Dusenbury 3408 1-10H Performations & Shots per/ft

Stage Nbr	Date	Type	Top Depth	Top Depth (TVD)	Bottom Depth	Bottom Depth (TVD)	Zone	Shot per ft	Comment	String Perforated	Perf Co.	Fluid Type
20	4/7/2015	Frac Sleeve	5,371.00	4,736.60	5,373.00	4,736.60	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
19	4/7/2015	Frac Sleeve	5,601.00	4,734.30	5,603.00	4,734.30	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
18	4/7/2015	Frac Sleeve	5,833.00	4,733.30	5,835.00	4,733.20	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
17	4/6/2015	Frac Sleeve	6,029.00	4,728.70	6,031.00	4,728.60	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
16	4/6/2015	Frac Sleeve	6,271.00	4,721.10	6,273.00	4,721.10	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
15	4/6/2015	Frac Sleeve	6,515.00	4,715.30	6,517.00	4,715.30	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
14	4/6/2015	Frac Sleeve	6,700.00	4,715.50	6,702.00	4,715.50	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
13	4/6/2015	Frac Sleeve	6,942.00	4,710.00	6,944.00	4,709.90	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
12	4/6/2015	Frac Sleeve	7,181.00	4,707.20	7,183.00	4,707.20	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
11	4/6/2015	Frac Sleeve	7,421.00	4,703.90	7,423.00	4,703.90	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
10	4/6/2015	Frac Sleeve	7,660.00	4,696.80	7,662.00	4,696.80	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
9	4/6/2015	Frac Sleeve	7,854.00	4,695.30	7,856.00	4,695.30	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
8	4/6/2015	Frac Sleeve	8,097.00	4,696.60	8,099.00	4,696.60	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
7	4/6/2015	Frac Sleeve	8,333.00	4,697.70	8,335.00	4,697.60	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
6	4/6/2015	Frac Sleeve	8,573.00	4,693.90	8,575.00	4,693.90	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
5	4/6/2015	Frac Sleeve	8,809.00	4,689.00	8,811.00	4,688.90	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
4	4/6/2015	Frac Sleeve	9,049.00	4,684.20	9,051.00	4,684.20	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
3	4/6/2015	Frac Sleeve	9,245.00	4,689.10	9,247.00	4,689.20	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
2	4/6/2015	Frac Sleeve	9,486.00	4,691.90	9,488.00	4,691.90	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water
1	4/6/2015	P - Sleeve	9,727.00	4,691.30	9,729.00	4,691.30	Miss Lime - Upper, Original Hole	1	Baker Fracpoint System	Production Liner	Baker Atlas	Fresh Water

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/17/2015
Job End Date:	5/18/2015
State:	Kansas
County:	Harper
API Number:	15-077-22141-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Dusenbury 3408 3-10H
Longitude:	-98.17178500
Latitude:	37.09318200
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,698
Total Base Water Volume (gal):	1,921,118
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.78337	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.90018	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.03961	None
			Methyl Alcohol	67-56-1	80.00000	0.00033	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00006	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00002	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00386	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00039	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00073	None
			Citric Acid	77-92-9	30.00000	0.00044	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					

			Water	7732-18-5		0.02136	
			Anionic Polymer	N/A		0.01068	
			Aliphatic Hydrocarbon	64742-47-8		0.01068	
			Water	7732-18-5		0.00971	
			Oxyalkylated Alcohol	68002-97-1		0.00178	
			Polyol Ester	N/A		0.00178	
			Acrylic Polymer	28205-96-1		0.00162	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00162	
			Water	7732-18-5		0.00051	
			Polyglycol Ester	N/A		0.00036	
			WATER	7732-18-5		0.00015	
			TRADE SECRET	N/A		0.00010	
			Alcohol Ethoxylate Surfactants	N/A		0.00006	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00004	
			n-olefins	N/A		0.00003	
			Propargyl Alcohol	107-19-7		0.00002	
			ISOPROPANOL	67-63-0		0.00002	
			METHANOL	67-56-1		0.00002	
			Water	7732-18-5			
			Acetic Acid	64-19-7			
			Surfactant	N/A			
			Cinnamic Aldehyde	104-55-2			
			Buffer	N/A			

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)