Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1181703

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 Supply, Hondo Heavy Haul
Wellsite Geologist: Bob Wilcox
Purchaser: Plains

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 #:

9/19/2013	10/26/2013	12/8/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21966-01-00
Spot Description:
S2 - S2 - S2 - SE Sec. 15 Twp. 35 S. R. 8 ☐ East ☑ West
200 Feet from ☐ North / ☑ South Line of Section
1320 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: Bryant 3508 Well #: 5-10H
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1251 Kelly Bushing: 1275
Total Vertical Depth: 7540 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 778 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: 18000 ppm Fluid volume: 6120 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: DFD Disposal
Lease Name: unknown License #: 60374
Quarter NE Sec. 30 Twp. 27 S. R. 6 ☐ East ☑ West
County: Grant County, OK Permit #: 99999

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: 01/17/2014
☑ **Confidential Release Date:** 01/17/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 01/17/2014

[redacted] 1181703

Operator Name: SandRidge Exploration and Production LLC Lease Name: Bryant 3508 Well #: 5-10H

Sec. 15 Twp. 35 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:

Compensated Neutron Log
Petro Physical Analysis

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

Name	Top	Datum
Base Heebner	3535	
Lansing	3893	
Cottage Grove	4182	
Oswego	4621	
Cherokee	4803	
Verdigris	4833	
Mss Lime	5155	

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	90	grout	10	see report
surface	12.25	9.625	36	778	Class A	375	see report
intermediate	8.75	7	26	5789	Class A	340	see report

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: 4.5 Set At: 7540 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 12/14/2013

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	39	113	1000		

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:
5475-7490

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	Bryant 3508 5-10H
Doc ID	1181703

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5574-5576	Frac 5475-7490	7490
5	5475-5477		
5	5673-5675		
5	5797-5800		
5	5872-5875		
5	5932-5935		
5	6012-6015		
5	6072-6075		
5	6152-6155		
5	6237-6240		
5	6307-6310		
5	6377-6380		
5	6453-6456		
5	6507-6510		
5	6600-6603		
5	6657-6660		
5	6780-6783		
5	6833-6836		
5	6899-6902		
5	6965-6968		
5	7047-7050		
5	7147-7150		
5	7219-7222		
5	7282-7285		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Bryant 3508 5-10H
Doc ID	1181703

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7387-7290		
5	7437-7440		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Bryant 3508 5-10H
Doc ID	1181703

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	778	Class A	375	see report
intermediate	8.75	7	26	5789	Class A	340	see report

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/24/2013
Job End Date:	11/27/2013
State:	Kansas
County:	Harper
API Number:	15-077-21966-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Bryant 3508 5-10H
Longitude:	-98.16859801
Latitude:	36.99852923
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,798
Total Base Water Volume (gal):	1,797,390
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	Company 1	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	95.25960	None
Sand (Proppant)	Company 2	Proppant					
			Silica Substrate	NA	100.00000	3.81909	None
Hydrochloric Acid (15%)	Company 2	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.11647	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00422	None
			Methyl Alcohol	67-56-1	80.00000	0.00099	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00018	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Acrylamide modified copolymer	NA	60.00000	0.00724	None
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00399	None
			Alphatic hydrocarbon	64742-47-8	30.00000	0.00362	None
			Ammonium cloride	12125-02-9	5.00000	0.00060	None
			Oxyalkylated Alcohol	NA	5.00000	0.00060	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00040	None
AIC	Archer	Liquid Acid Iron Control					

			Acetic Acid	64-19-7	50.00000	0.00219	None
			Citric Acid	77-92-9	30.00000	0.00131	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		0.04859	
			WATER	7732-18-5		0.02530	
			Aliphatic Hydrocarbon	64742-47-8		0.02429	
			Anionic Polymer	N/A		0.02429	
			TRADE SECRET	N/A		0.01687	
			Water	7732-18-5		0.01085	
			ISOPROPANOL	67-63-0		0.00422	
			METHANOL	67-56-1		0.00422	
			Oxyalkylated Alcohol	68002-97-1		0.00405	
			Polyol Ester	N/A		0.00405	
			Water	7732-18-5		0.00362	
			Acrylic Polymer	28205-96-1		0.00181	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00181	
			Water	7732-18-5		0.00153	
			Polyglycol Ester	N/A		0.00081	
			Polyol Ester	N/A		0.00060	
			Alkanolamide	N/A		0.00060	
			Alcohol Ethoxylate Surfactants	N/A		0.00018	
			Ammonium salt	7783-18-8		0.00012	
			Oxyalkylated fatty Acid Derivetive	N/A		0.00012	
			Surfactant	N/A		0.00012	
			Alkanolamine	111-42-2		0.00012	
			n-olefins	N/A		0.00010	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00008	
			Propargyl Alcohol	107-19-7		0.00007	
			Surfactant	N/A			
			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)

Standard Wellpath Report
Sandridge
Sec 15 - 35S - 8W, Kansas
Harper County
Wellbore: Bryant 3508 5-10H (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	2096790.00	121011.00
853.00	0.10	228.100	853.00	0.50S	0.55W	==>	-0.61	2096789.45	121010.50
943.00	0.20	157.800	943.00	0.70S	0.55W	0.21	-0.80	2096789.45	121010.30
1123.00	0.40	40.500	1123.00	0.51S	0.03W	0.29	-0.50	2096789.97	121010.49
1303.00	0.30	53.400	1302.99	0.25N	0.76E	0.07	0.41	2096790.76	121011.25
1584.00	0.10	354.800	1583.99	0.93N	1.33E	0.09	1.21	2096791.33	121011.93
1870.00	0.30	273.100	1869.99	1.22N	0.56E	0.11	1.32	2096790.56	121012.22
2156.00	0.30	250.700	2155.99	1.02N	0.90W	0.04	0.79	2096789.10	121012.02
2442.00	0.50	265.500	2441.98	0.67N	2.85W	0.08	0.02	2096787.15	121011.67
2728.00	0.40	283.900	2727.97	0.81N	5.06W	0.06	-0.34	2096784.94	121011.81
3013.00	0.70	302.900	3012.96	2.00N	7.49W	0.12	0.27	2096782.51	121013.00
3299.00	0.40	303.200	3298.94	3.49N	9.79W	0.10	1.22	2096780.21	121014.49
3585.00	0.30	271.300	3584.94	4.06N	11.37W	0.08	1.41	2096778.63	121015.06
3794.00	0.40	190.300	3793.94	3.35N	12.05W	0.22	0.57	2096777.95	121014.35
3841.00	1.10	120.500	3840.93	2.96N	11.69W	2.20	0.27	2096778.31	121013.96
3873.00	3.20	102.100	3872.91	2.62N	10.55W	6.82	0.19	2096779.45	121013.62
3904.00	5.60	92.900	3903.82	2.36N	8.20W	8.05	0.47	2096781.80	121013.36
3936.00	7.80	88.200	3935.60	2.35N	4.47W	7.08	1.29	2096785.53	121013.35
3968.00	10.40	87.500	3967.19	2.54N	0.59E	8.13	2.61	2096790.59	121013.54
4000.00	12.70	89.200	3998.54	2.72N	6.99E	7.27	4.21	2096796.99	121013.72
4031.00	14.50	89.600	4028.67	2.79N	14.28E	5.81	5.91	2096804.28	121013.79
4063.00	16.50	89.200	4059.50	2.88N	22.83E	6.26	7.91	2096812.83	121013.88
4095.00	19.20	86.600	4089.96	3.26N	32.63E	8.80	10.46	2096822.63	121014.26
4127.00	21.40	85.000	4119.97	4.08N	43.70E	7.09	13.74	2096833.70	121015.08
4158.00	23.30	84.800	4148.64	5.13N	55.44E	6.13	17.38	2096845.45	121016.13
4190.00	25.70	83.400	4177.76	6.50N	68.64E	7.72	21.67	2096858.64	121017.50
4222.00	28.60	82.900	4206.23	8.24N	83.14E	9.09	26.60	2096873.14	121019.25
4254.00	31.80	82.000	4233.88	10.37N	99.09E	10.10	32.23	2096889.10	121021.37
4285.00	34.60	81.900	4259.82	12.74N	115.90E	9.03	38.30	2096905.90	121023.74
4317.00	37.00	82.000	4285.77	15.36N	134.43E	7.50	45.00	2096924.44	121026.36
4349.00	39.10	83.000	4310.97	17.93N	153.98E	6.84	51.87	2096943.99	121028.93
4381.00	41.10	83.300	4335.45	20.39N	174.45E	6.28	58.83	2096964.46	121031.39
4412.00	41.60	83.700	4358.72	22.71N	194.79E	1.82	65.64	2096984.81	121033.71
4444.00	42.60	80.700	4382.46	25.63N	216.04E	7.02	73.23	2097006.06	121036.63
4476.00	43.80	76.400	4405.80	29.98N	237.50E	9.93	82.26	2097027.51	121040.98
4507.00	45.10	72.800	4427.93	35.75N	258.42E	9.15	92.56	2097048.44	121046.75
4539.00	46.10	69.200	4450.32	43.20N	280.03E	8.62	104.64	2097070.05	121054.20
4571.00	47.20	66.000	4472.29	52.07N	301.53E	8.04	118.09	2097091.55	121063.07
4603.00	47.70	63.500	4493.93	62.12N	322.85E	5.96	132.66	2097112.87	121073.13
4635.00	48.30	60.600	4515.35	73.27N	343.85E	6.99	148.21	2097133.87	121084.28
4667.00	48.50	56.700	4536.60	85.72N	364.28E	9.13	164.91	2097154.30	121096.72
4698.00	48.90	53.000	4557.06	99.12N	383.31E	9.06	182.22	2097173.34	121110.13
4730.00	48.60	49.100	4578.16	114.24N	402.02E	9.21	201.14	2097192.04	121125.25
4762.00	48.60	45.300	4599.33	130.54N	419.63E	8.91	220.96	2097209.65	121141.55
4793.00	48.90	41.500	4619.77	147.47N	435.63E	9.27	241.04	2097225.66	121158.48
4825.00	48.80	37.700	4640.84	166.03N	450.99E	8.95	262.56	2097241.02	121177.04
4857.00	50.50	35.000	4661.56	185.67N	465.43E	8.34	284.93	2097255.46	121196.69
4889.00	52.40	32.700	4681.50	206.46N	479.37E	8.18	308.30	2097269.39	121217.47
4920.00	54.20	30.700	4700.03	227.61N	492.42E	7.78	331.83	2097282.45	121238.62
4952.00	56.50	28.600	4718.22	250.48N	505.43E	8.99	357.03	2097295.47	121261.50
4984.00	59.20	26.300	4735.25	274.52N	517.91E	10.40	383.26	2097307.95	121285.54
5015.00	61.70	25.300	4750.54	298.80N	529.65E	8.54	409.54	2097319.68	121309.82
5047.00	64.00	24.800	4765.14	324.60N	541.70E	7.32	437.38	2097331.74	121335.62
5079.00	66.00	24.900	4778.66	350.91N	553.89E	6.26	465.75	2097343.92	121361.93
5111.00	69.20	25.100	4790.85	377.72N	566.39E	10.02	494.67	2097356.43	121388.75
5143.00	71.90	24.700	4801.51	405.09N	579.09E	8.52	524.19	2097369.13	121416.11
5174.00	73.60	22.700	4810.70	432.20N	590.99E	8.25	553.27	2097381.03	121443.22
5206.00	74.20	20.100	4819.58	460.82N	602.21E	8.03	583.67	2097392.24	121471.85
5238.00	75.60	15.900	4827.92	490.19N	611.75E	13.41	614.43	2097401.79	121501.23
5270.00	77.70	13.200	4835.31	520.33N	619.57E	10.51	645.55	2097409.60	121531.36
5302.00	79.10	10.300	4841.74	551.01N	625.95E	9.90	676.89	2097415.98	121562.05
5333.00	81.10	8.300	4847.07	581.15N	630.88E	9.06	707.36	2097420.92	121592.18
5365.00	82.70	5.900	4851.58	612.58N	634.79E	8.95	738.88	2097424.83	121623.62
5397.00	83.90	3.100	4855.31	644.26N	637.29E	9.46	770.31	2097427.32	121655.30
5429.00	86.00	1.600	4858.13	676.11N	638.59E	8.05	801.65	2097428.63	121687.15
5461.00	88.80	1.200	4859.58	708.06N	639.37E	8.84	832.97	2097429.41	121719.11
5492.00	90.80	1.200	4859.69	739.05N	640.02E	6.45	863.32	2097430.06	121750.10
5524.00	90.90	1.300	4859.22	771.04N	640.72E	0.44	894.66	2097430.76	121782.09
5556.00	90.90	1.000	4858.71	803.03N	641.36E	0.94	925.98	2097431.40	121814.08
5588.00	91.20	1.300	4858.13	835.02N	642.00E	1.33	957.31	2097432.04	121846.07
5619.00	91.20	1.100	4857.48	866.01N	642.65E	0.65	987.66	2097432.69	121877.06
5651.00	89.70	0.700	4857.23	898.00N	643.16E	4.85	1018.95	2097433.19	121909.06

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Bryant 3508 5-10H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 12.900 degrees
Bottom hole distance is 2852.14 Feet on azimuth 12.44 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 30-Oct-2013

Standard Wellpath Report
Sandridge
Sec 15 - 35S - 8W, Kansas
Harper County
Wellbore: Bryant 3508 5-10H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
5683.00	89.70	0.300	4857.39	930.00N	643.43E	1.25	1050.21	2097433.47	121941.06
5714.00	89.70	0.200	4857.56	961.00N	643.57E	0.32	1080.45	2097433.61	121972.06
5746.00	90.00	1.000	4857.64	993.00N	643.90E	2.67	1111.72	2097433.94	122004.06
5756.00	90.20	1.100	4857.62	1002.99N	644.09E	2.24	1121.50	2097434.13	122014.06
5799.00	90.20	1.100	4857.47	1045.99N	644.91E	==>	1163.60	2097434.95	122057.05
5831.00	90.80	1.200	4857.19	1077.98N	645.56E	1.90	1194.92	2097435.60	122089.04
5895.00	91.90	0.100	4855.69	1141.95N	646.28E	2.43	1257.45	2097436.32	122153.02
5991.00	91.00	359.800	4853.26	1237.92N	646.20E	0.99	1350.97	2097436.24	122249.00
6086.00	91.10	0.000	4851.52	1332.91N	646.03E	0.24	1443.52	2097436.07	122343.99
6182.00	92.00	0.000	4848.92	1428.87N	646.03E	0.94	1537.06	2097436.07	122439.96
6277.00	91.40	359.500	4846.10	1523.83N	645.62E	0.82	1629.52	2097435.66	122534.92
6373.00	90.60	0.400	4844.43	1619.81N	645.53E	1.25	1723.07	2097435.57	122630.91
6468.00	91.90	0.500	4842.35	1714.78N	646.28E	1.37	1815.81	2097436.32	122725.89
6564.00	92.10	359.600	4839.00	1810.72N	646.36E	0.96	1909.34	2097436.40	122821.83
6659.00	91.30	358.600	4836.18	1905.67N	644.87E	1.35	2001.56	2097434.91	122916.79
6755.00	91.30	358.300	4834.01	2001.61N	642.28E	0.31	2094.49	2097432.32	123012.73
6850.00	91.80	358.200	4831.44	2096.53N	639.38E	0.54	2186.37	2097429.42	123107.66
6946.00	92.40	358.800	4827.92	2192.43N	636.86E	0.88	2279.29	2097426.90	123203.57
7041.00	93.00	358.400	4823.44	2287.30N	634.55E	0.76	2371.24	2097424.59	123298.44
7137.00	93.10	359.200	4818.34	2383.14N	632.54E	0.84	2464.21	2097422.58	123394.28
7232.00	92.30	358.000	4813.86	2478.00N	630.22E	1.52	2556.16	2097420.26	123489.15
7328.00	91.60	357.200	4810.59	2573.86N	626.20E	1.11	2648.70	2097416.24	123585.02
7423.00	93.50	356.600	4806.37	2668.62N	621.07E	2.10	2739.92	2097411.11	123679.79
7489.00	94.00	356.800	4802.05	2734.37N	617.28E	0.82	2803.17	2097407.32	123745.54
7540.00	94.00	356.800	4798.49	2785.17N	614.44E	==>	2852.05	2097404.48	123796.34

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Bryant 3508 5-10H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 12.900 degrees
Bottom hole distance is 2852.14 Feet on azimuth 12.44 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 30-Oct-2013

Sandridge

Location Kansas | Installation Harper County
Field Sec 15 - 35S - 8W | Well Bryant 3508 5-10H

Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N36 59 52.77	W98 9 50.68	120620.00	2098111.00
Coordinate System	Kansas State Planes, Southern Zone			

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Bryant 3508 5-10H	190.99 N	-1320.92 E	N36 59 54.71	W98 10 6.96	121011.00	2096790.00

Elevation Data

Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
0.00	0.00	0.00

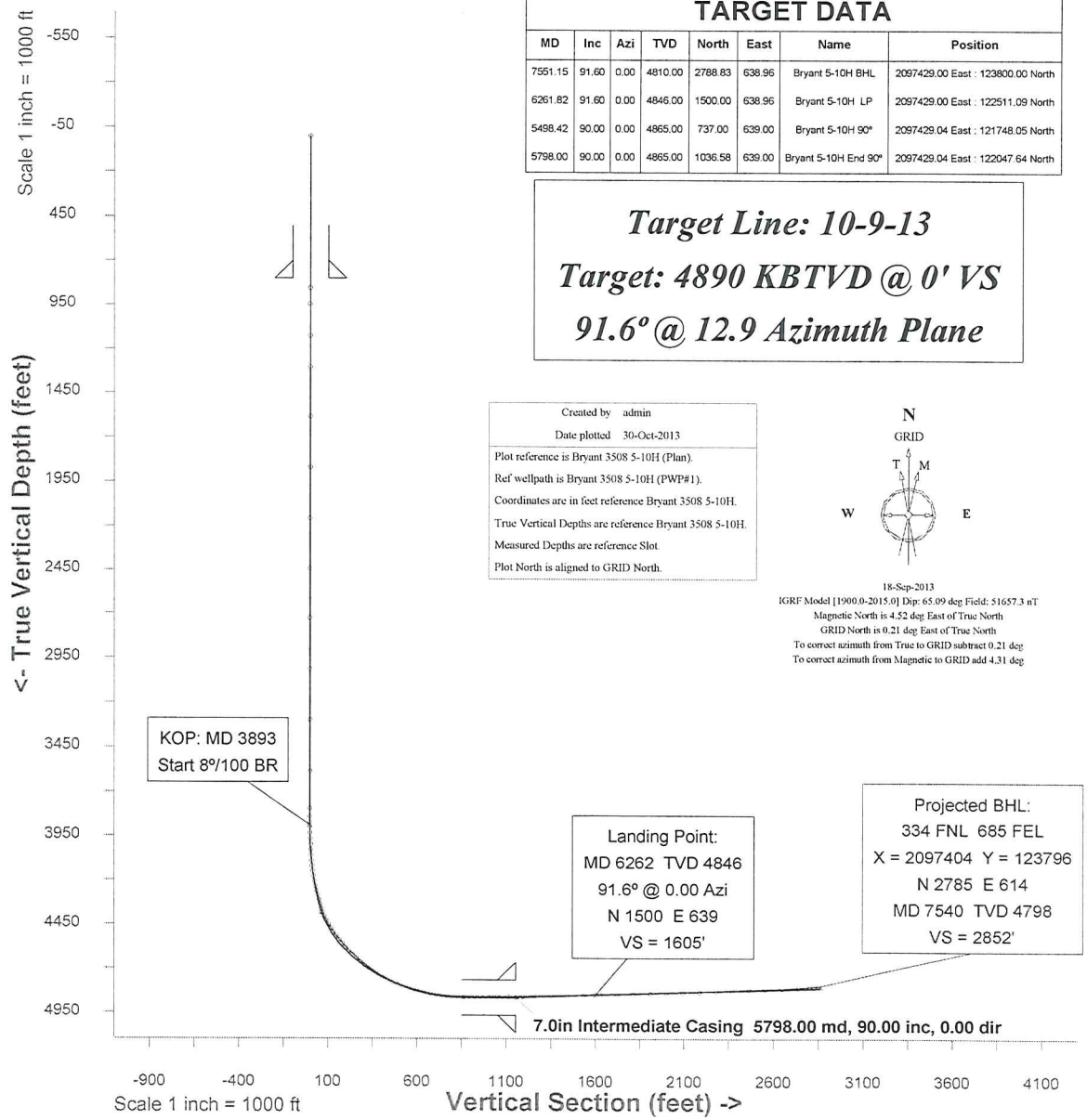
WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP	3893.00	0.00	0.00	3893.00	0.00	0.00	0.00	0.00
End of Build	4430.75	43.02	83.11	4381.63	23.10	191.19	8.00	65.21
End of Hold	4432.09	43.02	83.11	4382.60	23.20	192.09	0.00	65.52
Target Bryant 5-10H 90	5498.42	90.00	0.00	4865.00	737.00	639.00	8.00	861.09
Target Bryant 5-10H En	5798.00	90.00	0.00	4865.00	1036.58	639.00	0.00	1153.11
End of Build/Turn	5828.47	92.44	359.99	4864.35	1067.04	639.00	8.00	1182.79
End of Hold	6251.35	92.44	359.99	4846.37	1489.54	638.96	0.00	1594.62
Target Bryant 5-10H L	6261.82	91.60	0.00	4846.00	1500.00	638.96	8.00	1604.81
T.D. & Target Bryant 5-	7551.15	91.60	0.00	4810.00	2788.83	638.96	0.00	2861.09

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
7551.15	91.60	0.00	4810.00	2788.83	638.96	Bryant 5-10H BHL	2097429.00 East : 123800.00 North
6261.82	91.60	0.00	4846.00	1500.00	638.96	Bryant 5-10H LP	2097429.00 East : 122511.09 North
5498.42	90.00	0.00	4865.00	737.00	639.00	Bryant 5-10H 90°	2097429.04 East : 121748.05 North
5798.00	90.00	0.00	4865.00	1036.58	639.00	Bryant 5-10H End 90°	2097429.04 East : 122047.64 North

Target Line: 10-9-13
Target: 4890 KBTVD @ 0' VS
91.6° @ 12.9 Azimuth Plane

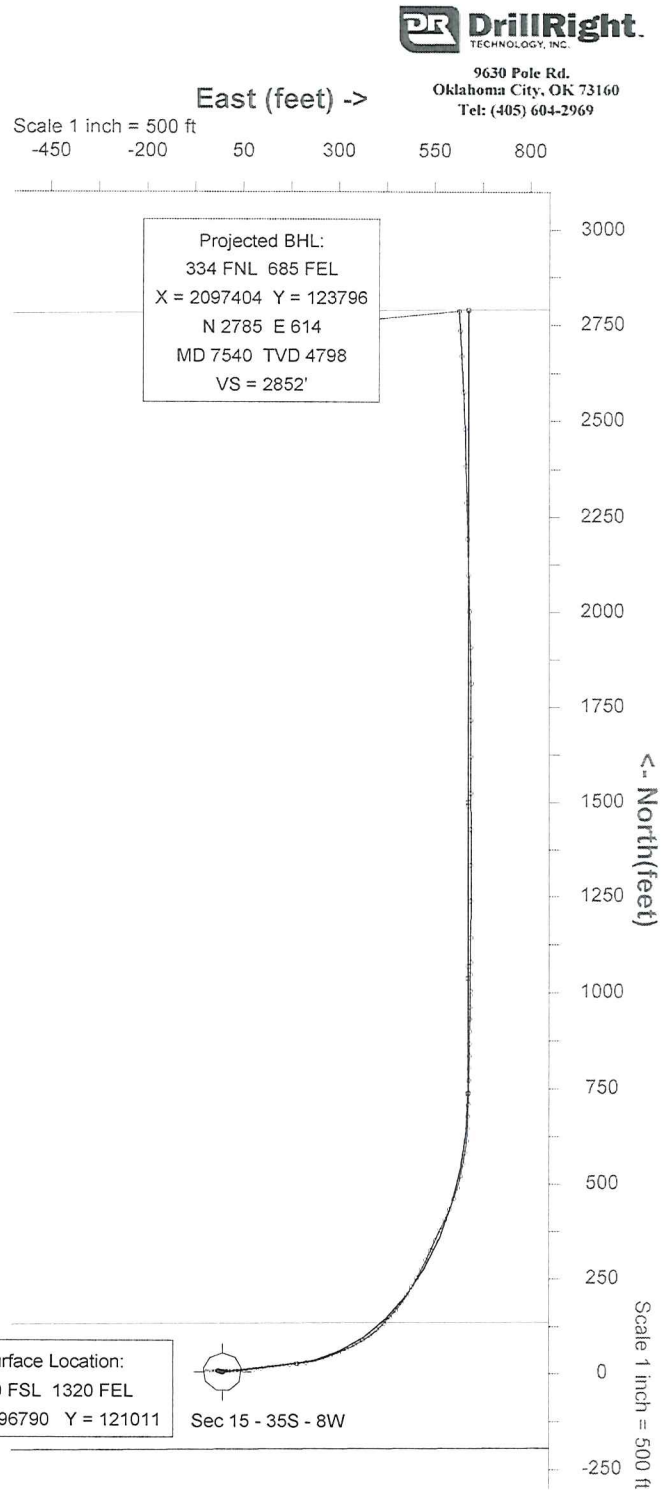


Created by	admin
Date plotted	30-Oct-2013

Plot reference is Bryant 3508 5-10H (Plan).
Ref wellpath is Bryant 3508 5-10H (PWP#1).
Coordinates are in feet reference Bryant 3508 5-10H.
True Vertical Depths are reference Bryant 3508 5-10H.
Measured Depths are reference Slot.
Plot North is aligned to GRID North.

18-Sep-2013
IGRF Model [1900.0-2015.0] Dip: 65.09 deg Field: 51657.3 nT
Magnetic North is 4.52 deg East of True North
GRID North is 0.21 deg East of True North
To correct azimuth from True to GRID subtract 0.21 deg
To correct azimuth from Magnetic to GRID add 4.31 deg

DrillRight TECHNOLOGY, INC.
9630 Pole Rd.
Oklahoma City, OK 73160
Tel: (405) 604-2969



ALLIED OIL & GAS SERVICES, LLC 059990

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge, KS

DATE 10-23-2013	SEC. 15	TWP. 35S	RANGE 8W	CALLED OUT 11:00 pm	ON LOCATION 4:00 pm	JOB START 7:30 pm	JOB FINISH 8:50 am
LEASE Bryant 3508	WELL # 5-10 H		LOCATION Attica, KS South to Hwy #2			COUNTY Harper	STATE KS
OLD OR (NEW) (Circle one)			east to Waldron Rd, South to Rd 100,				

CONTRACTOR Largo #20
TYPE OF JOB Intermediate
HOLE SIZE 8 3/4" T.D. 5814'
CASING SIZE 7" 26# DEPTH 5798'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 3,000 psi MINIMUM 0
MEAS. LINE SHOE JOINT 89'
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 217½ bbls of freshwater

OWNER SandRidge Energy Inc.

EQUIPMENT

PUMP TRUCK #558-555 CEMENTER Darin F.
HELPER Scott P.
BULK TRUCK #561-553 DRIVER Jesse C.
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 240 sx 50:50 Class A: Poz + 2% Gel + .4% FL160 + .1% C-51
100 sx Class A + .8% FL160 + .2% CD-31

COMMON Class A 100sx	@	17.90	1790.00
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
Super Flush 30bbls	@	58.70	1761.00
Allied 50/50 poz 240sx	@	14.40	3456.00
Fluid loss - FL160 81#	@	18.90	1530.90
FL160 76#	@	18.90	1436.40
CD-31 19#	@	10.30	195.70
SA-51 21#	@	17.55	368.55
	@		
	@		
HANDLING 361.84 cuft	@	2.48	872.56
MILEAGE 603.16 ton mile		2.60	1568.22
		TOTAL	12,979.33

REMARKS:

Pipe on bottom & break circulation, Pressure test to 3,000psi, Pump 30 bbls MSF, mix 240 sx Class A Cement, mix 100sx tail Cement Shut down, Release plug, Start displacement Lift Pressure at 150 bbls, Slow rate to 3bpm at 210 bbls, bump plug at 217½ bbls 800 1400 psi, float did hold

SERVICE

DEPTH OF JOB 5798'

PUMP TRUCK CHARGE			3,099.25
EXTRA FOOTAGE	@		
MILEAGE 40	@	7.70	308.00
MANIFOLD Heavy Head	@		275.00
Light vehicle 40	@	4.40	176.00
	@		
		TOTAL	3,858.25

AFE Number: DC 13287
Well Name: BRYANT 3508 5-10H
CHARGE TO: Code: 830-370
STREET Amount: 11,855.92
Co. Man: Paul Beckelheimer
CITY STATE ZIP
Co. Man Sig.:
Notes:

PLUG & FLOAT EQUIPMENT

7"

1-Rubber Plug	@		99.45
	@		
	@		
	@		
	@		
		TOTAL	99.45

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 16,937.03
DISCOUNT 30% IF PAID IN 30 DAYS

PRINTED NAME X Paul Beckelheimer
SIGNATURE X Paul Beckelheimer

$11,855.92

ALLIED OIL & GAS SERVICES, LLC 059987

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge Ks

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-14-2013	15	35s	8w	5:00pm	8:00pm	8:20pm	9:00pm

LEASE	WELL #	LOCATION	COUNTY	STATE
Bryson 3508	5-10H	Attica, Ks S to Hwy 2, E to Wilmon Rd, S to Rd 100, 1E, S&W into	Harper	Ks

OLD OR (NEW) (Circle one)

CONTRACTOR Largo #2
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 780'
CASING SIZE 9 5/8 26# DEPTH 784'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 2,000 psi MINIMUM
MEAS. LINE SHOE JOINT 43'
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 57 bbls of fresh water

OWNER SandRidge Energy

EQUIPMENT

PUMP TRUCK CEMENTER Darin F. / Scott P.
#558-555 HELPER Scott P.
BULK TRUCK
#541-553 DRIVER James B.
BULK TRUCK
#673L DRIVER David F.

CEMENT

AMOUNT ORDERED 255sx 65:35:6% Gel 2% CC + ¼# Flosel, 150sx Class A + 2% CC + ¼# Flosel

COMMON	Class A 150sx	@ 17.90	2,685.00
POZMIX		@	
GEL		@	
CHLORIDE	16sx	@ 64.00	~~688.00~~ 640.8
ASC		@	
ALW	255sx	@ 16.50	4,207.50
Flosel	164#	@ 2.97	~~486.03~~ 294
HANDLING	448.31	@ 2.48	1,111.80
MILEAGE	768.86	2.60	1999.04
		TOTAL	10,946.28

REMARKS:

P. Pe on bottom & break Circulation, Pump 10 bbls fresh water, mix 255sx lead Cement 150sx tail Cement, Shut down, Release Plug Start displacement, Slow rate to 3bpm @ 50 bbls, Bump Plug @ 57 bbls 400-1100 psi, Float & hold, Cement did circulate 50 bbls to Pit

AFE Number: DG1326
Well Name: Bryson A 3508 5-10H
Code: 830.360
CHARGE Amount: 13948.64
STREET Co. Man: Bill Tomlinson
Co. Man Sig.: Bill Tomlinson
CITY Notes: STATE ZIP

SERVICE

DEPTH OF JOB 784'
PUMP TRUCK CHARGE $2,058.50
EXTRA FOOTAGE @
MILEAGE 40 @ 7.70 308.00
MANIFOLD Heads rental @ 275.00
Light Vehicle 40 @ 4.40 176.00
Additional hours 6½ @ 440.00 2860.00
TOTAL 5,677.50

PLUG & FLOAT EQUIPMENT

9 5/8
1-Rubber Plug @ 184.86

TOTAL 184.86

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGE 16,808.64
DISCOUNT 30% IF PAID IN 30 DAYS
NET 11,766. 04

PRINTED NAME X Bill Tomlinson

SIGNATURE X Bill Tomlinson

Thank You!!!

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

TICKET

TICKET NUMBER: WY-116-1
TICKET DATE: 09/17/2013

ELECTRONIC

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

YARD: WY WAYNOKA OK
LEASE: Bryant 3508
WELL#: 5-10H
RIG #: Lariat 20
Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
9/17/2013 DRILLED 30" CONDUCTOR HOLE			
9/17/2013 20" CONDUCTOR PIPE (.250 WALL)			
9/17/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
9/17/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
9/17/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
9/17/2013 16" CONDUCTOR PIPE (.250 WALL)			
9/17/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
9/17/2013 WELDING SERVICES FOR PIPE & LIDS			
9/17/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
9/17/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
9/17/2013 16 YDS OF 10 SACK GROUT			
9/17/2013 TAXABLE ITEMS			5,460.00
9/17/2013 BID - TAXABLE ITEMS			11,490.00

Sub Total:	16,950.00
Tax HARPER COUNTY (6.3 %):	343.98
TICKET TOTAL:	$ 17,293.98

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

Approved Signature _____