





1127056

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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](mailto: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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Patricia 3507 1-7H
Doc ID	1127056

All Electric Logs Run

Mudlog
Boresight
Prizm Analysis
Resistivity
Porosity

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Patricia 3507 1-7H
Doc ID	1127056

Tops

Name	Top	Datum
Base Heebner	3564	
Lansing	3917	
Cottage Grove	4187	
Oswego Limestone	4509	
Cherokee Group	4628	
Verdigris Limestone	4661	
Mississippi Unconformity	4813	
Mississippi Limestone	4821	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Patricia 3507 1-7H
Doc ID	1127056

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8808-9082	4210 bbls water, 36 bbls acid, 75M lbs sd, 4493 TLTR	
5	8486-8757	4205 bbls water, 36 bbls acid, 75M lbs sd, 8837 TLTR	
5	8084-8362	4199 bbls water, 36 bbls acid, 75M lbs sd, 13116 TLTR	
5	7677-7984	4192 bbls water, 36 bbls acid, 75M lbs sd, 17513 TLTR	
5	7368-7594	3483 bbls water, 36 bbls acid, 60M lbs sd, 21218 TLTR	
5	6970-7310	4181 bbls water, 36 bbls acid, 75M lbs sd, 25580 TLTR	
5	6564-6872	4175 bbls water, 36 bbls acid, 75M lbs sd, 29866 TLTR	
5	6152-6471	4169 bbls water, 36 bbls acid, 75M lbs sd, 34169 TLTR	
5	5794-6095	4163 bbls water, 36 bbls acid, 75M lbs sd, 38595 TLTR	
5	5376-5692	4156 bbls water, 36 bbls acid, 75M lbs sd, 42802 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Patricia 3507 1-7H
Doc ID	1127056

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5140-5274	2743 bbls water, 36 bbls acid, 45M lbs sd, 45606 TLTR	

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 25, 2013

Tiffany Golay  
SandRidge Exploration and Production LLC  
123 ROBERT S. KERR AVE  
OKLAHOMA CITY, OK 73102-6406

Re: ACO1  
API 15-077-21905-01-00  
Patricia 3507 1-7H  
NW/4 Sec.07-35S-07W  
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Tiffany Golay

# Mid-Continent Conductor, LLC

## Invoice

P.O. Box 1570  
Woodward, OK 73802  
Phone: (580)254-5400  
Fax: (580)254-3242

Date	Invoice #
1/21/2013	1667

Bill To
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Ricky Beene	Net 45	1/21/2013	Patricia 1-7H, Harper Cnty, KS	Horizon 15

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
Mouse Hole	80	Drilled 80 ft. mouse hole
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Grout & Trucking	10	Furnished grout and trucking to location
Grout Pump	1	Furnished grout pump
Fence Panels	4	Furnished and set fence panels around conductor holes
Welder & Materials	1	Furnished welder and materials
Dirt Removal	1	Furnished labor and equipment for dirt removal
Cover Plate	1	Furnished cover plates
Permits	1	Permits

AFE: \_\_\_\_\_  
 Well: PATRICIA 1-7H  
 Code: 855.010  
 AMT: \_\_\_\_\_  
 Co Man: \_\_\_\_\_

<b>Subtotal</b>	██████████
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>517,340.00</b>





**Service Contract Receipt**  
**SCHLUMBERGER TECHNOLOGY CORPORATION**

Service Contract Number  
**CDL7-00119**

<b>Invoice Mailing Address:</b> SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)  123 ROBERT S. KERR AVENUE  OKLAHOMA CITY OK 73102-6406 USA		<b>Left District</b> <b>Arrive Location</b> <b>Start Job</b> <b>Complete Job</b> <b>Leave Location</b> <b>Arrived District</b>	<b>Date:</b> 08-Mar-2013 <b>Time:</b> 11:00 PM <b>Date:</b> 09-Mar-2013 <b>Time:</b> 4:00 AM <b>Date:</b> 09-Mar-2013 <b>Time:</b> 8:00 PM <b>Date:</b> 09-Mar-2013 <b>Time:</b> 9:00 PM <b>Date:</b> 09-Mar-2013 <b>Time:</b> 10:00 PM <b>Date:</b> 10-Mar-2013 <b>Time:</b> 4:00 AM
<b>Customer PO</b> <b>Contract</b>		<b>Service Description:</b> Cementing Primary, Primary Conductor	
<b>AFE</b> DC12385		<b>Well Name &amp; Number</b> Patricia	<b>Field</b> Harper
<b>Customer or Authorized Representative</b> ISMAEL FRANCO		<b>County/Parish/Block/Borough</b> Harper	<b>State/Province</b> Kansas
<b>API/UWI</b>	<b>Pricebook</b> B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_	<b>SLB Location</b> El Reno, OK	<b>Legal Location</b>
<b>API/UWI</b>		<b>Rig</b> Horizon 15	
<b>Service Instructions:</b> To provide services, equipment, materials and personnel to safely cement a 9 5/8 " surface casing as per client request. Pump 10 bbls fresh water, 210 sks lead slurry @12.4ppg, 190 sks tail slurry @14.8ppg, drop top plug and displace as per client approval.006111-WATER SAMPLE006173-LEAD 1006160- LEAD 2006135- TAIL			

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Qty	UOM	Price	Disc	Amount
<b>Products</b>						
58498000						
66704005	Plug, Top Rubber Alum Core 9.625 in	✓ 1	EA	665.00	47.00%	
D020	Bentonite Extender	✓ 160	LB	0.50	47.00%	
D035-CF	LITEPOZ 3 Extender	✓ 76	CF	9.20	47.00%	
D130	Polyester Flake	✓ 50	LB	4.40	47.00%	
D803	Cement, Class C	✓ 327	CF	22.95	47.00%	
S001	Calcium Chloride 77pct concentration	✓ 366	LB	1.44	47.00%	
<b>Products Subtotal:</b>						
<b>Discount:</b>						
<b>Products Total:</b>						
<b>Services</b>						
48019000	Bulk Unit, Per Hr on location	8	HR	115.00	47.00%	
48019000	Bulk Unit, Per Hr on location (ADD HR)	28	HR	115.00	35.00%	
48601000	Cement Plug Container	1	JOB	556.40	47.00%	
49100000	Cement Blending Charge	430	CF	2.43	47.00%	
49102000	Transportation, Cement Ton-mile	949	MI	2.18	47.00%	
59200002	Transportation, Mileage Heavy Vehicles	100	MI	5.91	47.00%	
59200005	Transportation, Mileage Light Vehicles	100	MI	3.47	47.00%	
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	
102871020	Pump, Casing Cement 0-2000 ft	1	EA	2,306.80	47.00%	
48020000	Pump, Cement Add Hr	14	HR	609.90	35.00%	
102946000	Fuel Surcharge (non-discounted)	3	EA	450.00		
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	
107264001	Regulatory Conformance Charge	3	EA	364.87		
102476000	Service Supervisor/Field Engineer	10	HR	112.35	35.00%	
102476001	Equipment Operator/Service Technician	20	HR	90.95	35.00%	
57998000	Miscellaneous Material Service Charges	2	EA	40.00	47.00%	
<b>Services Subtotal:</b>						
<b>Discount:</b>						
<b>Services Total:</b>						
<b>Total (Before Discount):</b>						
<b>Discount:</b>						
<b>Special Discount:</b>		0.00				
<b>Estimated Discounted Total (USD):</b>						



**Service Contract Receipt**  
**SCHLUMBERGER TECHNOLOGY CORPORATION**

Service Contract Number  
**BK7F-00188**

<b>Invoice Mailing Address:</b> SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)  123 ROBERT S. KERR AVENUE  OKLAHOMA CITY OK 73102-6406 USA		<b>Left District</b>	<b>Date:</b> 15-Mar-2013	<b>Time:</b> 3:00 AM		
		<b>Arrive Location</b>	<b>Date:</b> 15-Mar-2013	<b>Time:</b> 6:00 AM		
		<b>Start Job</b>	<b>Date:</b> 15-Mar-2013	<b>Time:</b> 4:05 PM		
		<b>Complete Job</b>	<b>Date:</b> 15-Mar-2013	<b>Time:</b> 5:11 PM		
		<b>Leave Location</b>	<b>Date:</b> 15-Mar-2013	<b>Time:</b> 6:00 PM		
		<b>Arrived District</b>	<b>Date:</b> 15-Mar-2013	<b>Time:</b> 9:00 PM		
<b>Customer PO</b>		<b>Contract</b>		<b>Well Name &amp; Number</b>		<b>Field</b>
<b>AFE</b>		<b>Cust Ref</b>		PATRICIA -3507- 1-7 H		OKAN
Customer or Authorized Representative Jaime Prieto				County/Parish/Block/Borough Harper		State/Province KS
API/JWI 15077219050100				Pricebook B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		Rig Horizon #15
<b>Service Instructions:</b> To provide services, equipment, personnel and materials to safely cement a 7" intermediate casing as per client request. Pump 30 bbls gelled water, 200 eks lead slurry @13.6ppg, 100 eks tail slurry @15.6ppg, drop top plug and displace as per client approval. Mix Water 010134, 9198fc 010133, 9198bc 010137						

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

**Products**

58498000

56764070	Plug, Top Rubber Alum Core 7 in	✓	EA	400.00	47.00%	
B306	PSG Polymer Slurry B306	✓	GA	105.00	47.00%	
D013	Retarder	✓	9 LB	2.79	47.00%	
D020	Bentonite Extender	✓	672 LB	0.50	47.00%	
D035-CF	LITEPOZ 3 Extender	✓	100 CF	9.20	47.00%	
D042	KOLITE Lost Circulation Additive	✓	400 LB	0.99	47.00%	
D046	Antifoam Agent, All Purpose	✓	53 LB	5.90	47.00%	
D065	TIC Dispersant	✓	17 LB	7.86	47.00%	
D079	Chemical Extender	✓	34 LB	3.05	47.00%	
D112	FLAC Fluid Loss Additive	✓	101 LB	15.20	47.00%	
D809	Cement, Class H	✓	200 CF	24.13	47.00%	

**Products Subtotal:** 87

**Discount:**

**Products Total:**

**Services**

48019000	Bulk Unit, Per Hr on location	12	HR	115.00	47.00%	
48601000	Cement Plug Container	1	JOB	556.40	47.00%	
49100000	Cement Blending Charge	320	CF	2.43	47.00%	
49102000	Transportation, Cement Ton-mile	688	MI	2.16	47.00%	
59200002	Transportation, Mileage Heavy Vehicles	100	MI	5.91	47.00%	
59200005	Transportation, Mileage Light Vehicles	100	MI	3.47	47.00%	
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	
102871055	Pump, Casing Cement 5001-5500 ft	1	EA	3,531.00	47.00%	
102946000	Fuel Surcharge (non-discounted)	3	EA	450.00		
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	
107264001	Regulatory Conformance Charge	3	EA	364.87		
48020000	Pump, Cement Add Hr	8	HR	609.90	47.00%	
102476000	Service Supervisor/Field Engineer	4	HR	112.35	47.00%	
102476001	Equipment Operator/Service Technician	8	HR	90.95	47.00%	

**Services Subtotal:**

**Discount:**

**Services Total:**

Date Printed: 15-Mar-2013 5:48 PM

This document is Confidential and intended for authorized users only



# Archer Survey Report

Company: Sandridge Energy , Inc

Location: Sec 07-T35S-R07W

Well: Patricia 3507 1-7H

Rig: Horizon 15

API or UWI: 15077219050000

Job Number: 04118-431-22

State: KS

Operator: Archer Directional Services

County: Harper

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 357.82

North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.50	279.00	250.00	0.17	-1.08	279.00	1.09	0.21	0.20
500.00	0.30	279.00	499.99	0.44	-2.80	279.00	2.84	0.55	0.08
750.00	0.20	279.00	749.99	0.61	-3.88	279.00	3.93	0.76	0.04
860.00	0.40	279.00	859.99	0.70	-4.45	279.00	4.50	0.87	0.18
1319.00	0.40	251.00	1318.98	0.43	-7.54	273.29	7.56	0.72	0.04
1793.00	0.40	338.60	1792.97	1.44	-9.71	278.41	9.82	1.80	0.12
2267.00	0.70	324.30	2266.95	5.33	-12.01	293.93	13.14	5.78	0.07
2740.00	0.40	321.30	2739.92	8.96	-14.72	301.33	17.24	9.52	0.06
3213.00	0.30	5.40	3212.92	11.48	-15.64	306.29	19.40	12.07	0.06
3687.00	0.70	332.50	3686.90	15.29	-16.86	312.20	22.76	15.92	0.10
3908.00	0.70	10.90	3907.88	17.81	-17.23	315.95	24.78	18.45	0.21
3941.00	0.80	358.30	3940.88	18.24	-17.20	316.68	25.07	18.88	0.58
3972.00	2.10	343.90	3971.87	19.00	-17.36	317.58	25.74	19.65	4.32
4004.00	4.40	340.50	4003.81	20.72	-17.93	319.12	27.40	21.39	7.21
4036.00	6.60	343.10	4035.67	23.64	-18.88	321.39	30.25	24.34	6.92
4067.00	8.80	345.00	4066.38	27.63	-20.01	324.09	34.12	28.37	7.14
4099.00	10.90	345.00	4097.91	32.92	-21.43	326.94	39.28	33.71	6.56
4130.00	12.80	344.60	4128.25	39.06	-23.10	329.40	45.38	39.91	6.13
4162.00	14.70	344.70	4159.33	46.40	-25.11	331.58	52.76	47.32	5.94
4194.00	16.70	345.50	4190.13	54.77	-27.33	333.48	61.21	55.77	6.29
4225.00	19.20	345.10	4219.62	64.01	-29.76	335.06	70.59	65.09	8.07
4257.00	21.60	345.60	4249.61	74.80	-32.58	336.46	81.58	75.98	7.52
4288.00	24.40	347.10	4278.15	86.57	-35.43	337.74	93.54	87.85	9.23
4320.00	27.30	348.90	4306.94	100.22	-38.32	339.08	107.29	101.60	9.39
4352.00	30.70	349.50	4334.93	115.45	-41.22	340.35	122.59	116.94	10.66
4383.00	33.30	350.70	4361.21	131.63	-44.04	341.50	138.80	133.21	8.63
4415.00	35.30	351.40	4387.65	149.45	-46.84	342.60	156.62	151.12	6.37
4446.00	36.90	352.50	4412.70	167.53	-49.39	343.57	174.66	169.29	5.57
4477.00	38.70	353.90	4437.19	186.40	-51.64	344.52	193.42	188.23	6.43
4508.00	39.90	354.90	4461.18	205.94	-53.55	345.42	212.79	207.83	4.38
4539.00	41.10	356.20	4484.75	226.01	-55.11	346.30	232.63	227.94	4.73
4570.00	42.60	356.90	4507.84	246.65	-56.35	347.13	253.01	248.62	5.07
4602.00	44.80	357.20	4530.98	268.73	-57.49	347.92	274.81	270.72	6.91
4633.00	47.40	358.00	4552.47	291.05	-58.42	348.65	296.85	293.06	8.59

4665.00	50.00	359.20	4573.59	315.08	-59.00	349.39	320.55	317.09	8.60
4697.00	50.80	359.60	4593.99	339.73	-59.26	350.11	344.86	341.74	2.68
4728.00	51.10	0.00	4613.52	363.81	-59.35	350.74	368.61	365.80	1.39
4759.00	51.30	359.80	4632.94	387.96	-59.39	351.30	392.48	389.94	0.82
4791.00	51.50	359.20	4652.91	412.97	-59.61	351.79	417.25	414.94	1.59
4822.00	51.80	359.20	4672.14	437.28	-59.95	352.19	441.37	439.24	0.97
4853.00	52.00	358.80	4691.27	461.67	-60.37	352.55	465.60	463.63	1.20
4885.00	53.40	358.90	4710.66	487.12	-60.88	352.88	490.91	489.08	4.38
4916.00	56.00	0.00	4728.57	512.42	-61.12	353.20	516.05	514.37	8.87
4947.00	57.80	0.90	4745.50	538.38	-60.91	353.54	541.82	540.31	6.30
4979.00	60.00	1.10	4762.03	565.78	-60.44	353.90	569.00	567.67	6.90
5011.00	62.00	1.70	4777.54	593.76	-59.75	354.25	596.76	595.60	6.46
5042.00	65.20	2.00	4791.32	621.51	-58.85	354.59	624.29	623.30	10.36
5074.00	67.60	1.40	4804.13	650.81	-57.99	354.91	653.39	652.55	7.69
5105.00	70.20	0.60	4815.29	679.73	-57.48	355.17	682.16	681.42	8.73
5137.00	73.00	0.70	4825.39	710.09	-57.14	355.40	712.38	711.75	8.76
5168.00	75.40	0.60	4833.83	739.91	-56.80	355.61	742.09	741.54	7.75
5200.00	77.90	0.90	4841.22	771.04	-56.39	355.82	773.10	772.63	7.87
5232.00	79.40	0.50	4847.52	802.41	-56.01	356.01	804.36	803.96	4.85
5264.00	80.70	359.80	4853.05	833.93	-55.93	356.16	835.80	835.45	4.60
5295.00	82.20	359.40	4857.66	864.59	-56.14	356.28	866.41	866.10	5.00
5352.00	86.50	358.90	4863.27	921.29	-56.98	356.46	923.05	922.79	7.59
5384.00	88.80	359.80	4864.58	953.26	-57.35	356.56	954.98	954.75	7.72
5415.00	90.50	1.50	4864.77	984.25	-56.99	356.69	985.90	985.70	7.76
5447.00	91.20	2.10	4864.29	1016.23	-55.99	356.85	1017.77	1017.62	2.88
5479.00	91.30	2.00	4863.59	1048.20	-54.84	357.00	1049.64	1049.53	0.44
5575.00	92.50	1.50	4860.41	1144.10	-51.91	357.40	1145.28	1145.25	1.35
5669.00	90.50	0.10	4857.95	1238.06	-50.60	357.66	1239.09	1239.08	2.60
5764.00	89.80	359.20	4857.70	1333.05	-51.18	357.80	1334.03	1334.03	1.20
5859.00	90.30	358.20	4857.62	1428.03	-53.34	357.86	1429.02	1429.02	1.18
5953.00	88.80	358.00	4858.36	1521.97	-56.45	357.88	1523.01	1523.01	1.61
6049.00	90.90	357.90	4858.61	1617.90	-59.89	357.88	1619.02	1619.02	2.19
6143.00	88.70	357.40	4858.94	1711.82	-63.74	357.87	1713.01	1713.01	2.40
6238.00	88.10	356.90	4861.59	1806.66	-68.46	357.83	1807.95	1807.95	0.82
6333.00	87.70	356.60	4865.07	1901.44	-73.85	357.78	1902.89	1902.89	0.53
6428.00	89.60	357.70	4867.31	1996.29	-78.57	357.75	1997.84	1997.84	2.31
6523.00	91.80	358.20	4866.15	2091.22	-81.97	357.76	2092.81	2092.81	2.37
6619.00	90.10	357.70	4864.56	2187.14	-85.40	357.76	2188.82	2188.82	1.85
6713.00	90.10	356.90	4864.39	2281.04	-89.83	357.74	2282.79	2282.79	0.85
6808.00	91.30	357.00	4863.23	2375.89	-94.88	357.71	2377.78	2377.78	1.27
6903.00	91.10	357.30	4861.24	2470.76	-99.60	357.69	2472.78	2472.77	0.38
6997.00	91.00	356.90	4859.52	2564.62	-104.36	357.67	2566.75	2566.74	0.44
7092.00	91.00	356.90	4857.86	2659.47	-109.50	357.64	2661.71	2661.69	0.00
7187.00	90.00	356.80	4857.03	2754.32	-114.72	357.62	2756.71	2756.69	1.06
7282.00	90.50	357.50	4856.62	2849.20	-119.44	357.60	2851.70	2851.68	0.91
7377.00	90.50	356.90	4855.79	2944.08	-124.08	357.59	2946.68	2946.65	0.63
7471.00	88.70	355.50	4856.44	3037.87	-130.31	357.54	3040.67	3040.63	2.43
7565.00	90.00	356.10	4857.51	3131.60	-137.19	357.49	3134.60	3134.55	1.52
7660.00	89.80	356.20	4857.68	3226.39	-143.57	357.45	3229.58	3229.51	0.24
7756.00	92.20	357.30	4856.00	3322.21	-149.01	357.43	3325.55	3325.47	2.75
7851.00	91.90	357.30	4852.60	3417.05	-153.48	357.43	3420.48	3420.40	0.32
7946.00	91.50	357.00	4849.79	3511.89	-158.21	357.42	3515.44	3515.35	0.53
8065.00	91.80	357.20	4846.36	3630.68	-164.22	357.41	3634.39	3634.30	0.30
8159.00	92.80	358.10	4842.59	3724.53	-168.08	357.42	3728.31	3728.22	1.43
8254.00	88.60	358.90	4841.43	3819.47	-170.56	357.44	3823.29	3823.20	4.50
8348.00	88.30	359.80	4843.97	3913.42	-171.63	357.49	3917.20	3917.14	1.01
8443.00	86.90	359.90	4847.95	4008.34	-171.88	357.54	4012.04	4011.99	1.48

8537.00	89.60	2.10	4850.82	4102.27	-170.24	357.62	4105.79	4105.76	3.70
8632.00	91.80	2.40	4849.66	4197.18	-166.51	357.73	4200.47	4200.47	2.34
8727.00	90.80	2.90	4847.50	4292.05	-162.12	357.84	4295.12	4295.12	1.18
8821.00	90.60	1.60	4846.35	4385.97	-158.42	357.93	4388.85	4388.84	1.40
8916.00	93.10	1.40	4843.29	4480.88	-155.94	358.01	4483.60	4483.58	2.64
9012.00	93.80	0.10	4837.51	4576.70	-154.68	358.06	4579.29	4579.25	1.54
9107.00	93.20	359.00	4831.71	4671.51	-155.43	358.09	4674.08	4674.03	1.32
9129.00	93.10	358.70	4830.50	4693.48	-155.87	358.10	4696.09	4696.03	1.44



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/19/2013
Job End Date:	4/20/2013
State:	Kansas
County:	Harper
API Number:	15-077-21905-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Patricia 3507 1-7H
Longitude:	-98.12500000
Latitude:	37.01510000
Datum:	NAD27
Federal/Tribal Well:	NO
Total Base Water Volume (gal):	1,850,207
Total Base Non Water Volume:	



## 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
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
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.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.11109		
			Potassium hydroxide	1310-58-3	0.00023		
			Distillates (petroleum), hydrotreated light	64742-47-8	0.23184		
			Ethoxylated oleic acid	9004-96-0	0.01932		
			Polyethylene glycol monoethyl ether	31726-34-8	0.11515		
			Propan-2-ol	67-63-0	0.00101		
			Trisodium ortho phosphate	7601-54-9	0.02654		
			Fatty acids, tall-oil	61790-12-3	0.00787		
			Ethane-1,2-diol	107-21-1	0.00755		
			2-Propenoic acid, ammonium salt	10604-69-0	0.00483		
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00995		

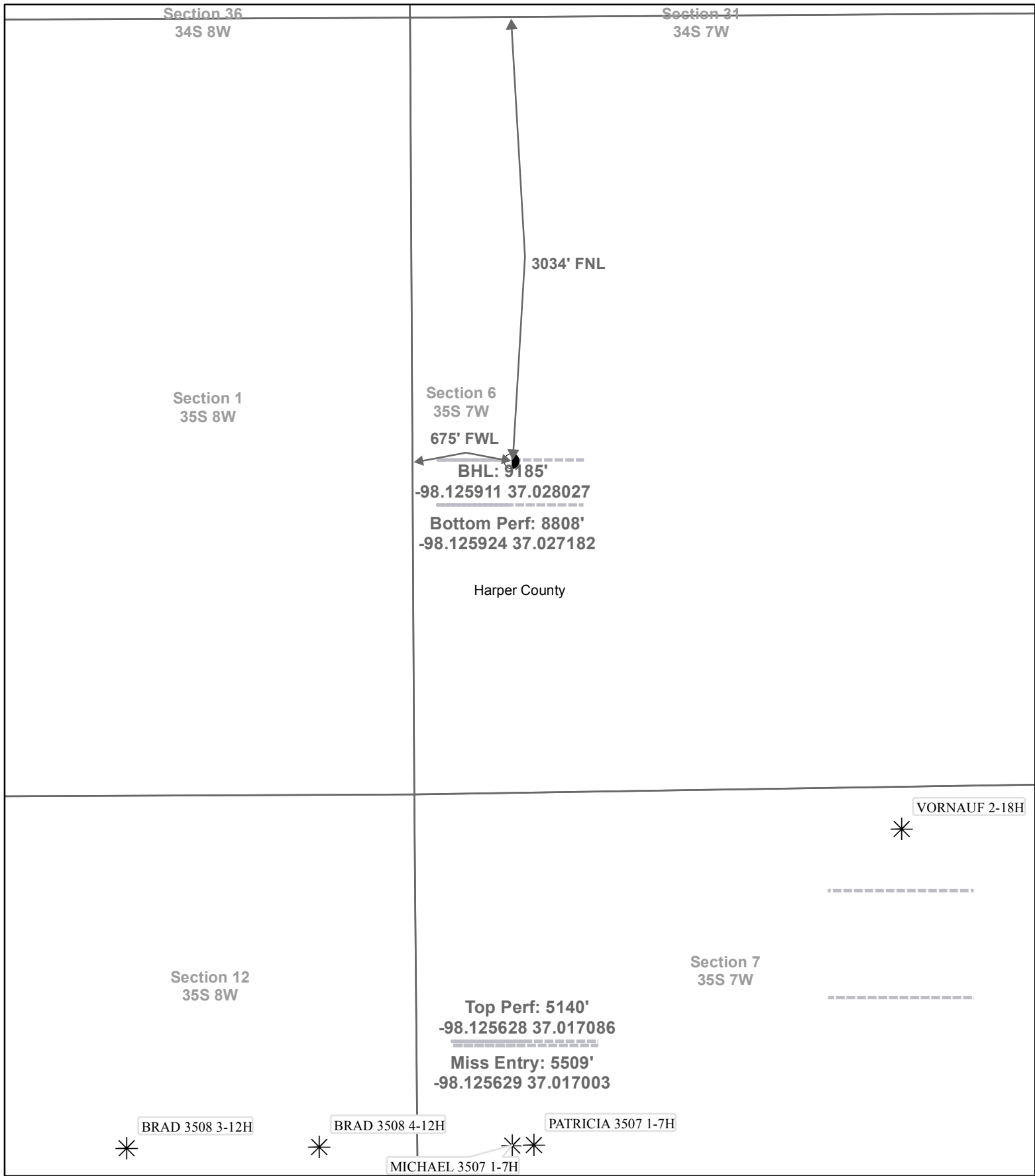
		Crystalline silica	14808-60-7	96.28677	
		Alcohols, C12-C16, ethoxylated	68551-12-2	0.01005	
		Sorbitol Tetraoleate	61723-83-9	0.01207	
		Hydrogen chloride	7647-01-0	2.89577	
		C14 alpha olefin ethoxylate	84133-50-6	0.00531	
		Methanol	67-56-1	0.01071	
		Alkenes, C>10 a-	64743-02-8	0.00134	
		Acrylamide/ammonium acrylate copolymer	26100-47-0	0.19320	
		Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00301	
		Alcohols, C12-C14, ethoxylated	68439-50-9	0.00995	
		Water (Including Mix Water Supplied by Client)*	-		
		Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00505	
		Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00647	
		Sodium erythorbate	6381-77-7	0.02711	
		Sorbitan monooleate	1338-43-8	0.01690	
		Prop-2-yn-1-ol	107-19-7	0.00201	

\* 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)



**Actual Bottom-Hole Location of Patricia 3507 1-7H**  
 Harper County, Kansas  
 T&R: 35S 7W  
 Section: 6, 675' FWL & 3034' FNL  
 Long/Lat: -98.125911 37.028027

1 in = 871 ft

**SANDRIDGE**  
 THE POWER OF US™

- Actual BH Location
- \* SandRidge Wells
- Perf
- Sections

0 650 1,300 2,600 Feet

Draftsman: Aaron Birk	Draft Date: 5/15/2013
Drawing Name/Number: Addendum_Patricia_1-7H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	



## Remarks

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Tiffany Golay 05/01/013 09:17 am	Open Hole Completions System was used for this well
Tiffany Golay 03/25/013 09:57 am	TVD 4830'