



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215381  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

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

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1215381

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. 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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method:
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____

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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Martin 3406 1-5H
Doc ID	1215381

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8504-8772	1500 gals 15% HCL Acid, 7161 bbls Fresh Slickwater, Running TLTR 7465	
5	8108-8440	1500 gals 15% HCL Acid, 5521 bbls Fresh Slickwater, Running TLTR 13141	
5	7747-8031	1500 gals 15% HCL Acid, 4703 bbls Fresh Slickwater, Running TLTR 17974	
5	7290-7676	1500 gals 15% HCL Acid, 5193 bbls Fresh Slickwater, Running TLTR 23327	
5	6670-7202	1500 gals 15% HCL Acid, 4180 bbls Fresh Slickwater, Running TLTR 28228	
5	6482-6786	1500 gals 15% HCL Acid, 4493 bbls Fresh Slickwater, Running TLTR 32817	
5	6132-6416	1500 gals 15% HCL Acid, 5066 bbls Fresh Slickwater, Running TLTR 37950	
5	5734-6048	1500 gals 15% HCL Acid, 4818 bbls Fresh Slickwater, Running TLTR 42832	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Martin 3406 1-5H
Doc ID	1215381

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5308-5658	1500 gals 15% HCL Acid, 4779 bbls Fresh Slickwater, Running TLTR 47611	
5	4778-5102	1500 gals 15% HCL Acid, 4203 bbls Fresh Slickwater, Running TLTR 51814	



Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	349	4912	1246	4045
BHL	8837	89.50	178.10	4574.76	-4576.29	131.71	4578.19	0.00	4928	333	1319	3980
Miss Entry	4765	72.48	178.65	4524.01	-510.50	12.42	510.65	8.54	860	4401	1252	4040
Top Perf	4778	73.73	178.57	4527.76	-522.95	12.72	523.09	9.17	873	4389	1252	4040
Bottom Perf	8837	89.50	178.10	4574.76	-4576.29	131.71	4578.19	0.00	4928	333	1319	3980

Survey Points	NW Corner XY Coord	X		Y		Surface XY	X	Y	North Line slope	m	
		2145184	166671	2146434	166344					0.0179618	
		SW Corner XY Coord	2145251	161406	East Line slope					-0.0144955	
		NE Corner XY Coord	2150473	166766	South Line slope					0.0220838	
	SE Corner XY Coord	2150549	161523			West Line slope	-0.0127255				

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
	0	0.0	0	0	0	0	0	0	349	4912	1246	4045
	706	1.00	355.00	705.96	6.1	-0.5	-6.15	0.14	343	4918	1245	4046
	948	1.10	352.00	947.92	10.5	-1.0	-10.57	0.05	339	4922	1245	4046
	1408	0.50	53.90	1407.88	16.1	0.0	-16.09	0.21	333	4928	1246	4045
	1881	0.60	101.40	1880.86	16.8	4.1	-16.70	0.10	333	4929	1250	4041
	2356	0.50	93.10	2355.84	16.2	8.6	-15.96	0.03	333	4928	1255	4036
	2828	0.20	240.30	2827.84	15.7	9.9	-15.41	0.14	334	4927	1256	4035
	3301	0.50	27.30	3300.83	17.1	10.1	-16.82	0.14	333	4929	1256	4035
	3743	0.70	333.00	3742.81	21.2	9.8	-20.95	0.13	328	4933	1256	4035
	3775	0.70	323.20	3774.81	21.6	9.6	-21.29	0.37	328	4933	1256	4035
	3806	0.50	216.40	3805.81	21.6	9.4	-21.34	3.13	328	4933	1256	4035
	3838	2.30	192.40	3837.80	20.9	9.2	-20.60	5.80	329	4933	1255	4036
	3869	4.30	192.00	3868.74	19.1	8.8	-18.87	6.45	330	4931	1255	4036
	3901	6.50	191.20	3900.60	16.2	8.2	-15.94	6.88	333	4928	1254	4037
	3933	9.00	188.90	3932.31	11.9	7.5	-11.71	7.87	338	4924	1253	4037
	3966	11.90	187.40	3964.75	6.0	6.6	-5.81	8.83	344	4918	1253	4038
	3997	14.60	185.90	3994.93	-1.0	5.8	1.22	8.78	351	4911	1252	4039
	4029	17.30	183.50	4025.69	-9.8	5.1	9.96	8.68	359	4902	1251	4040
	4061	19.30	181.70	4056.07	-19.8	4.7	19.98	6.49	369	4892	1250	4041
	4093	21.80	180.20	4086.03	-31.1	4.5	31.19	7.98	381	4881	1250	4041
	4125	24.30	178.60	4115.48	-43.6	4.6	43.72	8.05	393	4868	1250	4041
	4157	26.30	176.80	4144.41	-57.3	5.2	57.39	6.70	407	4854	1250	4041
	4188	28.60	176.70	4171.91	-71.5	6.0	71.68	7.42	421	4840	1251	4040
	4220	30.70	177.10	4199.72	-87.3	6.8	87.50	6.59	437	4824	1252	4040
	4251	33.00	178.20	4226.05	-103.7	7.5	103.86	7.65	453	4808	1252	4039
	4282	36.00	178.20	4251.60	-121.2	8.1	121.41	9.68	471	4790	1252	4039
	4314	38.60	178.50	4277.05	-140.6	8.6	140.80	8.14	490	4771	1253	4039
	4345	41.60	179.10	4300.76	-160.6	9.0	160.77	9.76	510	4751	1253	4038
	4377	44.10	179.80	4324.22	-182.3	9.2	182.52	7.95	532	4729	1253	4039
	4409	46.90	180.70	4346.65	-205.2	9.1	205.33	8.98	555	4707	1252	4039
	4441	49.60	180.90	4367.95	-229.0	8.8	229.18	8.45	579	4683	1252	4040
	4472	51.80	180.60	4387.59	-253.0	8.5	253.15	7.14	603	4659	1251	4040
	4503	53.90	180.00	4406.31	-277.7	8.4	277.84	6.95	627	4634	1251	4041
Top of Tangent @ 4947'	4535	56.00	179.70	4424.68	-303.9	8.4	304.03	6.61	654	4608	1250	4041
	4566	58.50	179.00	4441.45	-330.0	8.7	330.09	8.29	680	4582	1250	4041
	4598	61.00	179.20	4457.57	-357.6	9.2	357.73	7.83	707	4554	1250	4041
	4630	63.30	179.00	4472.52	-386.9	9.6	386.02	7.21	736	4526	1251	4041
	4662	65.20	178.50	4486.42	-414.7	10.2	414.84	6.10	764	4497	1251	4041
Btm of Tangent @ 5147'	4694	67.00	178.60	4499.39	-444.0	11.0	444.10	5.63	794	4468	1251	4041
	4725	69.10	178.90	4510.97	-472.7	11.6	472.85	6.83	822	4439	1251	4040
	4757	71.70	178.70	4521.71	-502.8	12.2	502.99	8.15	853	4409	1252	4040
	4789	74.80	178.50	4530.93	-533.5	13.0	533.63	9.71	883	4378	1252	4040
	4820	77.30	178.30	4538.40	-563.5	13.8	563.71	8.09	913	4348	1252	4039
	4852	79.10	177.80	4544.94	-594.8	14.9	595.03	5.83	945	4317	1253	4039
	4883	81.70	177.20	4550.11	-625.4	16.2	625.59	8.60	975	4286	1254	4038
	4915	83.70	177.80	4554.18	-657.1	17.6	657.33	6.52	1007	4254	1255	4037
	4947	86.60	178.80	4556.89	-689.0	18.5	689.21	9.58	1039	4223	1256	4037
	4978	87.90	179.20	4558.37	-719.9	19.1	720.17	4.39	1070	4192	1256	4036
	5010	88.20	179.30	4559.46	-751.9	19.5	752.15	0.99	1102	4160	1256	4037
	5104	88.80	179.00	4561.92	-845.9	20.9	846.10	0.71	1196	4066	1256	4036
	5167	88.90	179.20	4563.19	-908.8	21.9	909.09	0.35	1259	4003	1256	4036
	5250	89.30	178.70	4564.49	-991.8	23.4	992.07	0.77	1342	3920	1257	4036
	5345	89.70	177.80	4565.32	-1086.8	26.3	1087.07	1.04	1437	3825	1258	4035
	5437	89.60	179.40	4565.88	-1178.7	28.6	1179.06	1.74	1529	3733	1259	4034
	5531	89.10	178.90	4566.95	-1272.7	30.0	1273.04	0.75	1623	3639	1260	4034
	5626	89.20	178.60	4568.36	-1367.7	32.0	1368.03	0.33	1718	3543	1260	4033
	5722	90.10	178.30	4568.94	-1463.6	34.6	1464.03	0.99	1814	3447	1262	4032
	5817	90.30	178.20	4568.61	-1558.6	37.5	1559.03	0.24	1909	3352	1264	4030
	5912	89.50	177.70	4568.78	-1653.5	40.9	1654.02	0.99	2004	3257	1266	4028
	6006	90.60	177.40	4568.70	-1747.4	44.9	1748.01	1.21	2098	3163	1269	4026
	6101	89.60	178.00	4568.53	-1842.4	48.8	1843.01	1.23	2193	3068	1271	4023
	6196	89.70	178.60	4569.11	-1937.3	51.6	1938.00	0.64	2288	2973	1273	4022
	6291	90.00	179.80	4569.36	-2032.3	52.9	2032.99	1.30	2383	2878	1273	4022
	6385	91.20	180.20	4568.37	-2126.3	52.9	2126.94	1.35	2477	2784	1272	4023
	6479	90.80	181.10	4566.73	-2220.3	51.8	2220.85	1.05	2571	2690	1269	4025

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
6574	91.50	178.90	4564.83	-2315.3	51.8	2315.79	2.43	2666	2595	1268	4027
6668	91.50	177.00	4562.37	-2409.2	55.2	2409.75	2.02	2760	2501	1270	4025
6761	90.70	176.80	4560.58	-2502.0	60.2	2502.70	0.89	2853	2409	1274	4021
6856	90.70	176.40	4559.42	-2596.8	65.9	2597.65	0.42	2947	2314	1279	4017
6951	90.10	175.90	4558.76	-2691.6	72.2	2692.58	0.82	3042	2219	1284	4012
7046	88.30	176.60	4560.08	-2786.4	78.4	2787.50	2.03	3137	2124	1289	4007
7141	88.70	178.50	4562.57	-2881.3	82.5	2882.45	2.04	3232	2029	1292	4004
7235	89.20	178.40	4564.29	-2975.2	85.0	2976.44	0.54	3326	1935	1293	4003
7330	90.20	178.00	4564.79	-3070.2	88.0	3071.44	1.13	3421	1840	1295	4002
7424	89.90	178.20	4564.71	-3164.1	91.1	3165.43	0.38	3515	1746	1297	4000
7518	91.70	178.00	4563.40	-3258.1	94.3	3259.42	1.93	3609	1652	1299	3998
7613	90.80	178.60	4561.32	-3353.0	97.1	3354.40	1.14	3704	1557	1300	3997
7708	90.80	178.90	4560.00	-3448.0	99.2	3449.38	0.32	3799	1462	1301	3996
7803	90.60	179.10	4558.84	-3542.9	100.8	3544.37	0.30	3894	1367	1302	3996
7899	89.70	178.90	4558.58	-3638.9	102.5	3640.36	0.96	3990	1271	1302	3995
7994	88.90	178.30	4559.75	-3733.9	104.8	3735.35	1.05	4085	1176	1303	3994
8088	88.90	178.10	4561.55	-3827.8	107.8	3829.34	0.21	4179	1082	1305	3993
8184	88.50	177.90	4563.73	-3923.7	111.1	3925.31	0.47	4275	986	1307	3991
8278	88.60	177.80	4566.11	-4017.6	114.6	4019.28	0.15	4369	892	1309	3989
8373	88.80	178.70	4568.26	-4112.6	117.5	4114.25	0.97	4464	797	1311	3987
8467	89.00	179.10	4570.07	-4206.5	119.3	4208.23	0.48	4558	703	1312	3987
8562	88.90	177.80	4571.81	-4301.5	121.9	4303.21	1.37	4653	608	1313	3986
8656	89.60	177.90	4573.04	-4395.4	125.4	4397.20	0.75	4747	514	1315	3983
8751	89.30	178.00	4573.95	-4490.3	128.8	4492.19	0.33	4842	419	1318	3981
8785	89.50	178.10	4574.31	-4524.3	130.0	4526.19	0.66	4876	385	1318	3981
8837	89.50	178.10	4574.76	-4576.3	131.7	4578.19	0.00	4928	333	1319	3980

Section 31  
33S 6W

Section 32  
33S 6W

VALERIE 1-32



WILLIAM 3306 1-32H

WILLIAM 3306 2-32H



MARTIN 3406 1-5H

Miss Entry: 4765'  
-97.998046 37.121076

Top Perf: 4778'  
-97.998041 37.120993

Harper County

Section 6  
34S 6W

Section 5  
34S 6W

1436' FWL

Bottom Perf: 8772'  
-97.997336 37.110005

388' FSL

BHL: 8837'  
-97.997336 37.110005

MURRAY 3406 2-5H



Actual Bottom-Hole Location of Martin 3406 1-5H  
T&R: 34S 6W  
Section: 5, 1436' FWL & 388' FSL  
-97.997336 37.110005

1 in = 667 ft



● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet

Draftsman:

Naomi Martinez

Draft Date: 7/15/2014

Drawing Name/Number:

Addendum\_Martin 3406 1-5H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502



# Mid-Continent Conductor, LLC

# Invoice

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

Date	Invoice #
4/7/2014	2579

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
Carl Miller	Net 30	4/7/2014	Martin 3406 1-5H, Harper Cnty, KS	Latshaw 27

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole.
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe.
Mouse Hole	10	Drilled 10 ft. mouse hole.
Mouse Hole	75	Drilled 75 ft. mouse hole.
16" Pipe	85	Furnished 85 ft. of 16 inch mouse hole pipe.
Cellar Hole	1	Drilled 6x6 cellar hole.
6' X 6' Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Transport Truck - Conductor	1	Transport mud and water to location.
Grout & Trucking	15	Furnished 15 yards of grout and trucking to location.
Grout Pump	1	Furnished grout pump.
Fence Panels	1	Furnished and set safety netting around holes.
Welder & Materials	1	Furnished welder and materials.
Dirt Removal	1	Labor and equipment for dirt removal.
Cover Plate	1	Furnished cover plates.
Permits	1	Permits

AFE Number: DC 13789  
 Well Name: Martin 1-5H  
 Code: 850 010  
 Amount: 19,075.00  
 Co. Man: Vince  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_

<b>Subtotal</b>	\$19,075.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$19,075.00</b>

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 3639</b>	TICKET DATE <b>04/19/14</b>
COUNTY <b>Harper</b>	STATE <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Vince Brown</b>	
LEASE NAME <b>Martin 3406</b>	Well No. <b>1-5H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>LOUIS ARNEY</b>	

EMP NAME					
Louis Arney		0			
Vontray Watkins					
Ron Derry					
0.00					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At 0  
 Bottom Hole Temp. 80 Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth 700

Date	Called Out <b>4/19/2014</b>	On Location <b>4/19/2014</b>	Job Started <b>4/19/2014</b>	Job Completed <b>4/19/2014</b>
Time	<b>1100</b>	<b>1530</b>	<b>1955</b>	<b>2200</b>

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

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36#	9 1/2"		Surface	700	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	700	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 Water	BBL.	10
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	

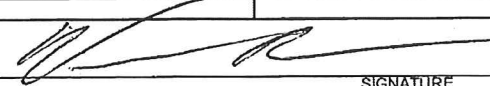
Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
4/19		4/19		Surface
Total	0.0	Total	0.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Pressures		
MAX	1,500 PSI	AVG. 150
Average Rates in BPM		
MAX	6 BPM	AVG 5
Cement Left in Pipe		
Feet	46'	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	190	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/2pps Cello-Flake - .4% C-41P	11.11	2.01	12.40
2	150	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps Cello-Flake	6.32	1.32	14.80
3	0	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary					
Preflush	10.00	Type: Fresh Water	Preflush: BBI	10.00	Type: Fresh Water
Breakdown		MAXIMUM 1,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl-Gal N/A
		Lost Returns-N	Excess /Return BBI	25	Calc.Disp Bbl 51
		Actual TOC	Calc. TOC:	SURFACE	Actual Disp. 50.00
Average		Bump Plug PSI: 900	Final Circ. PSI:	300	Disp:Bbl
ISIP	5 Min. 10 Min. 15 Min.		Cement Slurry BBI	103.0	
			Total Volume BBI	163.00	

CUSTOMER REPRESENTATIVE  SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 3663</b>	TICKET DATE <b>04/26/14</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Vince Brown</b>	
LEASE NAME <b>Martin 3406</b>	Well No. <b>1-5H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>ROBERT BURRIS</b>	

EMP NAME					
Robert Burris		0			
Mike Hall					
Cheryl Newton					
RJ STONEHOCKER					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **3,800'**

Bottom Hole Temp. **145** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **5,272'**

	Called Out	On Location	Job Started	Job Completed
Date	<b>4/26/2014</b>	<b>4/26/2014</b>	<b>4/26/2014</b>	<b>4/26/2014</b>
Time	<b>07:30</b>	<b>10:00</b>	<b>15:07</b>	<b>17:20</b>

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
Casing		26#	7"		Surface	5,279
Liner						5,000
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 1/4"		Surface	5,272
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	GEL BBL.	30	8.60
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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
4/26		4/26		Intermediate
Total	0.0	Total	0.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Pressures			
MAX	5,000 PSI	AVG.	825 PSI
Average Rates in BPM			
MAX	8 BPM	AVG	4.5 BPM
Cement Left in Pipe			
Feet	84 FT	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	230	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.2% C-20 - 0.1% C-37 - 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

Summary					
Preflush Breakdown	Type: _____	MAXIMUM	5,000 PSI	Preflush: BBI	30.00
	Lost Returns-#	NO/FULL		Load & Bkdn: Gal - BBI	N/A
	Actual TOC	3,032		Excess /Return BBI	N/A
Average	Bump Plug PSI:	1,350		Calc. TOC:	3,032
ISIP	5 Min.	10 Min.	15 Min.	Final Circ. PSI:	1,100
				Cement Slurry BBI	80.0
				Total Volume BBI	309.00
				Type: Gel Spacer	
				Pad:Bbl -Gal	N/A
				Calc.Disp Bbl	199
				Actual Disp.	199.00
				Disp:Bbl	

CUSTOMER REPRESENTATIVE J. O. Brown SIGNATURE



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/19/2014
Job End Date:	5/20/2014
State:	Kansas
County:	Harper
API Number:	15-077-22039-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Martin 3406 1-5H
Longitude:	-97.99778000
Latitude:	37.12242000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,575
Total Base Water Volume (gal):	2,130,030
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	94.41246	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	3.55701	None
DiKlor	Sabre Energy Services	Oxidizer					
			Chlorine Dioxide	10069-04-4	0.40000	0.29588	
			Water	7732-18-5	99.90000	0.29588	
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.10671	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00445	None
			Methyl Alcohol	67-56-1	80.00000	0.00088	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00017	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00541	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00055	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00196	None

			Citric Acid	77-92-9	30.00000	0.00118	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		0.04194	
			WATER	7732-18-5		0.02671	
			Anionic Polymer	N/A		0.02097	
			Aliphatic Hydrocarbon	64742-47-8		0.02097	
			TRADE SECRET	N/A		0.01781	
			Water	7732-18-5		0.00961	
			ISOPROPANOL	67-63-0		0.00445	
			METHANOL	67-56-1		0.00445	
			Oxyalkylated Alcohol	68002-97-1		0.00350	
			Polyol Ester	N/A		0.00350	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00160	
			Acrylic Polymer	28205-96-1		0.00160	
			Water	7732-18-5		0.00137	
			Polyglycol Ester	N/A		0.00070	
			Alcohol Ethoxylate Surfactants	N/A		0.00017	
			n-olefins	N/A		0.00009	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00007	
			Propargyl Alcohol	107-19-7		0.00007	
			Buffer	N/A			
			Acetic Acid	64-19-7			
			Surfactant	N/A			
			Water	7732-18-5			
			Cinnamic Aldehyde	104-55-2			

\* 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)