



Confidentiality Requested:

Yes  No

**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: \_\_\_\_\_

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:  Yes  No

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> <i>(Submit ACO-4)</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	Sutton 1825 1-10H
Doc ID	1251616

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	5814-5816	Acid Treatment - 12 bbl Acid- HF- 15%, 60 bbls Acid HF 15%, w/20 ball sealers, 156 bbl Fresh Water	6670-6704
4	5840-5842	Acid Treatment- 12 bbl Acid - HF -15%, 60 bbl Acid w/25 bio ball sealers, 152 bbl Fresh Water, Water Flush	6513-6608
4	5877-5879	Acid Treatment - 12 bbls Acid - HF 15%, 60 bbls Acid -HF - 15%, 148 bbls Fresh Water	6364-6452
4	5916-5918	Acid Treatment - 12 bbls Acid HF 15%, 60 bbls Acid HF 15% w/25 bio ball sealers, 145 Fresh Water Flush	6220-6326
4	5959-5961	Acid Treatment - 12 bbls Acid HF 15%, 60 Bbls Acid HF 15% w/25 bio ball sealers, 142 bbls Fresh Water, Flush	6086-6155
4	5984-5986	Acid Treatment - 12 bbls Acid HF 15%, 60 bbls Acid HF 15% w/25 bio ball sealers, 139 bbls fresh water, flush	5959-6044

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sutton 1825 1-10H
Doc ID	1251616

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	6006-6008	Acid Treatment - 12 bbls NEFE HCl 15% Acid, 60 bbls NEFE HCl 15% Acid w/25 bio balls, 136 bbls fresh water, water Flush	5814-5918
4	6042-6044		
4	6086-6088		
4	6107-6109		
4	6130-6132		
4	6153-6155		
4	6220-6222		
4	6262-6264		
4	6292-6294		
4	6324-6326		
4	6364-6366		
4	6389-6391		
4	6416-6418		
4	6450-6452		
4	6513-6515		
4	6554-6556		
4	6580-6582		
4	6606-6608		
4	6670-6672		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sutton 1825 1-10H
Doc ID	1251616

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	6691-6693		
4	6702-6704		



## Summary of Changes

Lease Name and Number: Sutton 1825 1-10H

API/Permit #: 15-135-25757-01-00

Doc ID: 1251616

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	08/05/2014	05/06/2015
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 16704	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 51616
Well Type	SWD	OIL



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1216704  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

**CONFIDENTIAL** 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: \_\_\_\_\_



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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sutton 1825 1-10H
Doc ID	1216704

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	5814-5816	Acid Treatment - 12 bbl Acid- HF- 15%, 60 bbls Acid HF 15%, w/20 ball sealers, 156 bbl Fresh Water	6670-6704
4	5840-5842	Acid Treatment- 12 bbl Acid - HF -15%, 60 bbl Acid w/25 bio ball sealers, 152 bbl Fresh Water, Water Flush	6513-6608
4	5877-5879	Acid Treatment - 12 bbls Acid - HF 15%, 60 bbls Acid -HF - 15%, 148 bbls Fresh Water	6364-6452
4	5916-5918	Acid Treatment - 12 bbls Acid HF 15%, 60 bbls Acid HF 15% w/25 bio ball sealers, 145 Fresh Water Flush	6220-6326
4	5959-5961	Acid Treatment - 12 bbls Acid HF 15%, 60 Bbls Acid HF 15% w/25 bio ball sealers, 142 bbls Fresh Water, Flush	6086-6155
4	5984-5986	Acid Treatment - 12 bbls Acid HF 15%, 60 bbls Acid HF 15% w/25 bio ball sealers, 139 bbls fresh water, flush	5959-6044

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sutton 1825 1-10H
Doc ID	1216704

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	6006-6008	Acid Treatment - 12 bbls NEFE HCl 15% Acid, 60 bbls NEFE HCl 15% Acid w/25 bio balls, 136 bbls fresh water, water Flush	5814-5918
4	6042-6044		
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4	6153-6155		
4	6220-6222		
4	6262-6264		
4	6292-6294		
4	6324-6326		
4	6364-6366		
4	6389-6391		
4	6416-6418		
4	6450-6452		
4	6513-6515		
4	6554-6556		
4	6580-6582		
4	6606-6608		
4	6670-6672		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sutton 1825 1-10H
Doc ID	1216704

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	6691-6693		
4	6702-6704		



Survey Calculation Program

Sandridge Energy  
 Sutton 1825 1-10H  
 Ness County, KS  
 Horizon#4

M.W.D. OPERATOR: Tommy L./Darryle D.  
 DIRECTIONAL DRILLERS: Bill S./ Travis H.

Magnetic Declination:	6.64
Job #:	DR1404081
Vertical Section	259.95

Minimum Curvature Calculation

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/100
Tie	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1477	0.5	101.2	1476.98	-1.25	6.32	-6.01	0.03
2	1729	0.3	81.6	1728.98	-1.37	8.05	-7.69	0.10
3	1981	0.3	351.1	1980.97	-0.62	8.60	-8.36	0.17
4	2232	0.5	265.3	2231.97	-0.06	7.41	-7.29	0.22
5	2484	0.9	259.6	2483.95	-0.51	4.37	-4.21	0.16
6	2736	0.6	264.2	2735.93	-1.00	1.11	-0.92	0.12
7	2986	0.4	276.4	2985.92	-1.03	-1.06	1.22	0.09
8	3241	0.4	203.8	3240.91	-1.75	-2.30	2.57	0.19
9	3492	0.5	263.9	3491.91	-2.67	-3.75	4.16	0.18
10	3594	2.4	266.0	3593.87	-2.86	-6.32	6.72	1.86
11	3625	4.3	270.3	3624.81	-2.90	-8.13	8.51	6.18
12	3657	6.5	276.4	3656.67	-2.69	-11.13	11.43	7.10
13	3688	8.9	277.2	3687.39	-2.20	-15.25	15.40	7.75
14	3720	11.9	275.8	3718.86	-1.55	-20.99	20.94	9.41
15	3752	14.9	273.9	3749.99	-0.94	-28.38	28.11	9.47
16	3784	18.3	274.3	3780.65	-0.28	-37.50	36.97	10.63
17	3816	21.1	273.7	3810.77	0.46	-48.26	47.44	8.77
18	3848	23.5	272.1	3840.38	1.07	-60.38	59.27	7.74
19	3880	26.1	267.7	3869.43	1.02	-73.80	72.49	9.96
20	3911	28.6	265.9	3896.96	0.22	-88.01	86.63	8.49
21	3943	31.5	265.4	3924.65	-1.00	-103.99	102.57	9.10
22	3974	33.7	265.0	3950.77	-2.40	-120.63	119.20	7.13
23	4006	35.7	264.9	3977.08	-4.01	-138.78	137.35	6.25
24	4037	37.1	263.8	4002.03	-5.82	-157.08	155.69	4.98
25	4069	37.4	263.2	4027.50	-8.01	-176.33	175.02	1.47
26	4100	39.0	262.0	4051.86	-10.48	-195.34	194.17	5.69
27	4132	41.4	259.5	4076.30	-13.81	-215.72	214.82	9.04
28	4163	43.8	256.7	4099.12	-18.15	-236.24	235.78	9.86
29	4195	47.1	254.7	4121.57	-23.79	-258.33	258.52	11.23
30	4226	49.6	255.0	4142.17	-29.85	-280.69	281.59	8.10
31	4258	53.3	254.8	4162.11	-36.37	-304.84	306.51	11.57
32	4289	56.2	255.4	4180.00	-42.87	-329.31	331.73	9.49
33	4320	59.6	256.3	4196.47	-49.29	-354.77	357.92	11.24
34	4352	62.4	257.7	4211.98	-55.58	-382.03	385.87	9.55

Survey Calculation Program

Sandridge Energy  
 Sutton 1825 1-10H  
 Ness County, KS  
 Horizon#4

M.W.D. OPERATOR: Tommy L./Darryle D.  
 DIRECTIONAL DRILLERS: Bill S./ Travis H.

Magnetic Declination:	6.64
Job #:	DR1404081
Vertical Section	259.95

Minimum Curvature Calculation

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/100
35	4384	65.3	258.3	4226.08	-61.55	-410.13	414.58	9.22
36	4416	68.0	258.0	4238.76	-67.58	-438.88	443.94	8.48
37	4447	70.4	257.2	4249.77	-73.80	-467.18	472.89	8.11
38	4479	72.6	256.9	4259.93	-80.61	-496.75	503.20	6.93
39	4511	75.2	256.7	4268.80	-87.63	-526.68	533.89	8.15
40	4542	77.1	257.5	4276.22	-94.34	-556.02	563.95	6.62
41	4574	79.5	258.8	4282.71	-100.78	-586.68	595.27	8.49
42	4605	81.4	259.2	4287.85	-106.61	-616.69	625.83	6.26
43	4637	83.0	259.2	4292.19	-112.55	-647.83	657.53	5.00
44	4668	84.9	259.2	4295.46	-118.33	-678.11	688.36	6.13
45	4699	86.7	259.4	4297.73	-124.07	-708.49	719.27	5.84
46	4731	87.1	259.2	4299.46	-130.00	-739.89	751.22	1.40
47	4762	87.9	258.9	4300.81	-135.88	-770.30	782.19	2.76
48	4794	88.4	259.1	4301.85	-141.98	-801.69	814.17	1.68
49	4825	88.7	258.9	4302.63	-147.90	-832.11	845.15	1.16
50	4857	88.2	259.0	4303.50	-154.03	-863.51	877.14	1.59
51	4889	87.0	259.0	4304.84	-160.13	-894.89	909.10	3.75
52	4920	87.2	258.4	4306.41	-166.19	-925.25	940.06	2.04
53	4952	87.2	256.8	4307.97	-173.06	-956.47	971.99	4.99
54	4983	87.2	257.3	4309.48	-180.00	-986.64	1002.91	1.61
55	5015	87.5	256.9	4310.96	-187.13	-1017.80	1034.84	1.56
56	5046	86.6	257.4	4312.56	-194.02	-1047.98	1065.76	3.32
57	5078	86.3	257.3	4314.54	-201.01	-1079.15	1097.67	0.99
58	5109	86.6	257.5	4316.46	-207.76	-1109.34	1128.58	1.16
59	5129	86.8	257.7	4317.61	-212.05	-1128.84	1148.53	1.41
60	5232	88.1	255.4	4322.19	-235.98	-1228.91	1251.23	2.56
61	5326	88.5	256.7	4324.98	-258.63	-1320.09	1344.97	1.45
62	5420	88.6	258.9	4327.36	-278.49	-1411.94	1438.87	2.34
63	5514	91.4	260.9	4327.36	-294.97	-1504.47	1532.86	3.66
64	5578	92.3	260.5	4325.30	-305.31	-1567.59	1596.82	1.54
65	5673	91.6	260.1	4322.06	-321.31	-1661.18	1691.76	0.85
66	5800	92.4	263.1	4317.63	-339.85	-1786.72	1818.61	2.44
67	5893	90.8	262.6	4315.03	-351.42	-1878.96	1911.45	1.80
68	5988	90.4	261.8	4314.04	-364.31	-1973.08	2006.38	0.94
69	6082	90.4	261.5	4313.38	-377.96	-2066.08	2100.33	0.32



Survey Calculation Program

Sandridge Energy  
 Sutton 1825 1-10H  
 Ness County, KS  
 Horizon#4

M.W.D. OPERATOR: Tommy L./Darryle D.  
 DIRECTIONAL DRILLERS: Bill S./ Travis H.

Magnetic Declination:	6.64
Job #:	DR1404081
Vertical Section	259.95

Minimum Curvature Calculation

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/100
70	6177	89.3	259.4	4313.63	-393.72	-2159.75	2195.32	2.50
71	6272	89.1	258.6	4314.96	-411.84	-2253.00	2290.30	0.87
72	6366	90.0	259.3	4315.70	-429.86	-2345.25	2384.28	1.21
73	6461	89.6	258.4	4316.03	-448.23	-2438.46	2479.26	1.04
74	6555	90.4	260.9	4316.03	-465.12	-2530.92	2573.25	2.79
75	6650	90.5	260.4	4315.28	-480.55	-2624.65	2668.24	0.54
76	6745	89.4	259.0	4315.36	-497.54	-2718.12	2763.24	1.87
77	6840	90.4	259.0	4315.53	-515.66	-2811.37	2858.22	1.05
78	6934	90.5	259.1	4314.79	-533.52	-2903.66	2952.21	0.15
79	7029	88.7	259.3	4315.45	-551.32	-2996.97	3047.19	1.91
80	7122	89.5	258.5	4316.92	-569.22	-3088.22	3140.16	1.22
81	7217	90.1	258.7	4317.25	-588.00	-3181.34	3235.14	0.67
82	7312	90.4	258.4	4316.83	-606.86	-3274.45	3330.11	0.45
83	7406	89.8	258.9	4316.67	-625.35	-3366.61	3424.08	0.83
84	7500	89.7	258.1	4317.08	-644.09	-3458.72	3518.05	0.86
85	7595	90.6	258.5	4316.83	-663.36	-3551.75	3613.01	1.04
PTB	7648	90.6	258.5	4316.27	-673.93	-3603.68	3665.99	0.00





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

# TICKET

TICKET NUMBER: WY-262-1  
 TICKET DATE: 04/05/2014

**ELECTRONIC**

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

YARD: WY WAYNOKA OK  
 LEASE: Sutton 1825  
 WELL#: 1-10H  
 RIG #: Horizon 4  
 Co/St: NESS, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
4/4-5/2014 DRILLED 30" CONDUCTOR HOLE			
4/4-5/2014 20" CONDUCTOR PIPE (.250 WALL)			
4/4-5/2014 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
4/4-5/2014 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
4/4-5/2014 DRILLED 20" MOUSE HOLE (PER FOOT)			
4/4-5/2014 16" CONDUCTOR PIPE (.250 WALL)			
4/4-5/2014 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
4/4-5/2014 WELDING SERVICES FOR PIPE & LIDS			
4/4-5/2014 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
4/4-5/2014 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
4/4-5/2014 10 YDS OF 10 SACK GROUT			
4/4-5/2014 TAXABLE ITEMS			
4/4-5/2014 BID - TAXABLE ITEMS			4,200.00
			13,050.00
		Sub Total:	17,250.00
		Tax NESS COUNTY (6.15 %):	258.30
		<b>TICKET TOTAL:</b>	<b>\$ 17,508.30</b>

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

Approved Signature \_\_\_\_\_



SandRidge Energy  
Sutton #1825 1-10 H  
Ness 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 Sutton #1825 1-10 H 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:

175 Bbls (525 sacks) of 12.7 ppg Lead slurry:  
Class A poz Blend  
6% Gel  
2% CC  
¼# Floseal

32 Bbls (150 sacks) of 15.6 ppg Tail slurry  
Class A  
2% CC  
¼ # Floseal

The top plug was then released and displaced with 110 Bbls of fresh water. The plug bumped and pressured up to 1000 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.



SandRidge Energy  
Sutton #1825 1-10 H  
Ness 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 Sutton #1825 1-10 H 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 preflush spacer. We then mixed and pumped the following cements:

60 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

19.5 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 196 Bbls of fresh water. The plug bumped and pressured up to 1500 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.