



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: \_\_\_\_\_

1234841

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:  
 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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Subera 3404 2-18H
Doc ID	1234841

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8663-8885	1500 gals 15% HCL Acid, 5056 bbls Fresh Slickwater, Running TLTR 5242	
5	8318-8605	1500 gals 15% HCL Acid, 5778 bbls Fresh Slickwater, Running TLTR 11061	
5	7953-8250	1500 gals 15% HCL Acid, 5845 bbls Fresh Slickwater, Running TLTR 17031	
5	7573-7870	1500 gals 15% HCL Acid, 5788 bbls Fresh Slickwater	
5	7228-7510	1500 gals 15% HCL Acid, 5627 bbls Fresh Slickwater, Running TLTR 28649	
5	6866-7175	1500 gals 15% HCL Acid, 5772 bbls Fresh Slickwater, Running TLTR 34504	
5	6483-6783	1500 gals 15% HCL Acid, 5648 bbls Fresh Slickwater, Running TLTR 40218	
5	6133-6415	1500 gals 15% HCL Acid, 5678 bbls Fresh Slickwater, Running TLTR 45952	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Subera 3404 2-18H
Doc ID	1234841

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5730-6045	1500 gals 15% HCL Acid, 5870 bbls Fresh Slickwater, Running TLTR 51868	
5	5320-5635	1500 gals 15% HCL Acid, 5850 bbls Fresh Slickwater, Running TLTR 57551	
5	4798-5100	1500 gals 15% HCL Acid, 4144 bbls Fresh Slickwater, Running TLTR 61895	



## Summary of Changes

Lease Name and Number: Subera 3404 2-18H

API/Permit #: 15-191-22753-01-00

Doc ID: 1234841

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	10/01/2014	12/11/2014
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 24213	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 34841
Total Depth	72201	4491



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1224213  
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) (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	Subera 3404 2-18H
Doc ID	1224213

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8663-8885	1500 gals 15% HCL Acid, 5056 bbls Fresh Slickwater, Running TLTR 5242	
5	8318-8605	1500 gals 15% HCL Acid, 5778 bbls Fresh Slickwater, Running TLTR 11061	
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5	7573-7870	1500 gals 15% HCL Acid, 5788 bbls Fresh Slickwater	
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5	6866-7175	1500 gals 15% HCL Acid, 5772 bbls Fresh Slickwater, Running TLTR 34504	
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5	6133-6415	1500 gals 15% HCL Acid, 5678 bbls Fresh Slickwater, Running TLTR 45952	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Subera 3404 2-18H
Doc ID	1224213

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
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5	4798-5100	1500 gals 15% HCL Acid, 4144 bbls Fresh Slickwater, Running TLTR 61895	





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

# TICKET

TICKET NUMBER: WY-307-1  
 TICKET DATE: 06/04/2014

**ELECTRONIC**

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

YARD: WY WAYNOKA OK  
 LEASE: Subera 3404  
 WELL#: 2-18H  
 RIG #: Unit 310  
 Co/St: SUMNER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
6/3-4/2014 DRILLED 30" CONDUCTOR HOLE			
6/3-4/2014 20" CONDUCTOR PIPE (.250 WALL)			
6/3-4/2014 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
6/3-4/2014 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
6/3-4/2014 DRILLED 20" MOUSE HOLE (PER FOOT)			
6/3-4/2014 16" CONDUCTOR PIPE (.250 WALL)			
6/3-4/2014 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
6/3-4/2014 WELDING SERVICES FOR PIPE & LIDS			
6/3-4/2014 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
6/3-4/2014 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
6/3-4/2014 13 YDS OF 10 SACK GROUT			
6/3-4/2014 TAXABLE ITEMS			5,580.00
6/3-4/2014 BID - TAXABLE ITEMS			11,320.00
		Sub Total:	16,900.00
		Tax SUMNER COUNTY (6.65 %):	371.07
		TICKET TOTAL:	<u>\$ 17,271.07</u>

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

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

AFE Number: DC 13842  
 Well Name: Subera 3404 2-18H  
 Code: 850.010  
 Amount: \$17,271.07  
 Co. Man: Earl, Bill  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_

0901430868

<b>Field Ticket Number:</b> 0901430868	<b>Field Ticket Date:</b> Saturday, June 14, 2014	<b>Planning Order #:</b> NA
<b>Bill To:</b> SANDRIDGE ENERGY INC EBUSINESS, PO BOX 548807 - DO NOT MAIL, OKLAHOMA CITY, OK, 73154	<b>Job Name:</b> 9.625" Surface Casing <b>Order Type:</b> ZOH <b>Well Name:</b> SUBERA 3404 2-18H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> WOODWARD Shipping Point <b>Sales Office:</b> MID-CONTINENT BD <b>Well Type:</b> HORIZONTAL OIL <b>Well Category:</b> Development	
<b>Ship To:</b> SUBERA 3404 2-18H,SUMNER, CORBIN, KS, 67022		

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
7521	CMT SURFACE CASING BOM	1	JOB	0.00	0.00		0.00
2	MILEAGE FOR CEMENTING CREW	140	MI	0.00	0.00		0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT	140	MI	0.00	0.00		0.00
452981	CMT, ExtendaCem (TM) system	190	SK	34.63	6,579.70	2960.87	3,618.83
101216940	CHEM, Pol-E-Flake, 25 lb bag <i>Poly-E-Flake</i>	48	LB	0.00	0.00		0.00
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK <i>Calcium Chloride, Pellet</i>	11	SK	0.00	0.00		0.00
452986	CMT, HalCem (TM) system	150	SK	47.04	7,056.00	3175.20	3,880.80
101216940	CHEM, Pol-E-Flake, 25 lb bag <i>Poly-E-Flake</i>	19	LB	0.00	0.00		0.00
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK <i>Calcium Chloride, Pellet</i>	6	SK	0.00	0.00		0.00
3965	HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI	382	CF	0.00	0.00		0.00
76400	MILEAGE,CMT MTLs DEL/RET MIN	70	MI	0.00	0.00		0.00
100003684	CEM,CLASS A REGULAR/TYPE 1,BULK	100	SK	47.04	4,704.00	2116.80	2,587.20
76400	MILEAGE,CMT MTLs DEL/RET MIN NUMBER OF TONS	1 4.7	MI	15.75	15.75	7.09	8.66
16091	ZI - PUMPING CHARGE DEPTH FEET/METERS (FT/M)	1 2500 FT	EA	7,095.00	7,095.00		7,095.00
<b>Totals USD</b>					<b>\$ 25,460.45</b>	<b>\$ 8,259.96</b>	<b>\$ 17,190.49</b>

### Field Ticket Signature

Field Ticket Number: 0901430868      Field Ticket Date: Saturday, June 14, 2014      Planning Order #: NA

**Bill To:**  
SANDRIDGE ENERGY INC EBUSINESS,  
PO BOX 548807 - DO NOT MAIL,  
OKLAHOMA CITY, OK, 73154

**Ship To:**  
SUBERA 3404 2-18H, SUMNER,  
CORBIN, KS, 67022

**Job Name:** 9.625" Surface Casing  
**Order Type:** ZOH  
**Well Name:** SUBERA 3404 2-18H  
**Company Code:** 1100  
**Customer PO No.:** NA  
**Shipping Point:** WOODWARD Shipping Point  
**Sales Office:** MID-CONTINENT BD  
**Well Type:** HORIZONTAL OIL  
**Well Category:** Development

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total: \$ 25,450.45  
Item Discount Total: \$ 8,259.96  
Net Amount Total: \$ 17,190.49 USD

Customer Representative Signature: \_\_\_\_\_

Date: \_\_\_\_\_

MICHAEL KULCHISKY  
Customer Representative

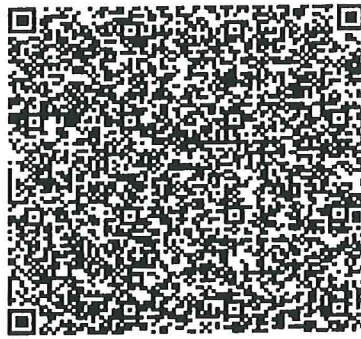
Billy Underwood  
Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)  
 Yes     No

Were you satisfied with our equipment?  
 Yes     No

Were you satisfied with our people?  
 Yes     No

Comments:



AFE number: DC 13842  
Well Name: SUBERA 3404 2-18H  
Code: 830.360  
Amount: 17,190  
Co. Man: MICHAEL KULCHISKY  
Co. Man Sig.: [Signature]  
Notes: \_\_\_\_\_

Field Ticket Number: 0901445097	Field Ticket Date: Monday, June 23, 2014	Planning Order #: NA
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**Bill To:**  
 SANDRIDGE ENERGY INC EBUSINESS,  
 PO BOX 548807 - DO NOT MAIL,  
 OKLAHOMA CITY, OK, 73154

**Job Name:** 7" Intermediate Casing  
**Order Type:** ZOH  
**Well Name:** SUBERA 3404 2-18H  
**Company Code:** 1100  
**Customer PO No.:** NA  
**Shipping Point:** WOODWARD Shipping Point  
**Sales Office:** MID-CONTINENT BD  
**Well Type:** HORIZONTAL OIL  
**Well Category:** Development

**Ship To:**  
 SUBERA 3404 2-18H,SUMNER,  
 CORBIN, KS, 67022

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
7522	CMT INTERMEDIATE CASING BOM	1	JOB	0.00	0.00		0.00
2	MILEAGE FOR CEMENTING CREW	140	MI	0.00	0.00		0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT	140	MI	0.00	0.00		0.00
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1 FT 7500	EA	10,733.00	10,733.00	1180.63	9,552.37
141	RCM II WIADC,/JOB,ZI	1	JOB	0.00	0.00		0.00
132	PORT. DAS WCEMWIN;ACQUIRE WHES, ZI	1	JOB	0.00	0.00		0.00
74038	ZI PLUG CONTAINER RENTAL-1ST DAY	1	EA	0.00	0.00		0.00
101229888	PLUG,CMTG, TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA	0.00	0.00		0.00
100003650	CHEM, CAUSTIC SODA BEADS, 50# Caustic Soda Beads	50	LB	0.00	0.00		0.00
101252566	AQUAGEL - 100 LB BAG AQUAGEL - 100 LB BAG	3	BAG	0.00	0.00		0.00
452992	CMT, EconoCem (TM) system	150	SK	31.15	4,672.50	2149.35	2,523.15
100001617	CHEM, Halad-9, 50 lb Halad(R)-9	54	LB	0.00	0.00		0.00
100003682	CHEM, BENTONITE (PER 100 LB) Bentonite	3	SK	0.00	0.00		0.00
452986	CMT, HalCem (TM) system	190	SK	48.19	9,156.10	4211.81	4,944.29
100001617	CHEM, Halad-9, 50 lb Halad(R)-9	72	LB	0.00	0.00		0.00
76400	MILEAGE,CMT MTLs DEL/RET MIN	70	MI	0.00	0.00		0.00
3965	HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI	353	CF	0.00	0.00		0.00
86954	ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON Number of Units	140 1	MI	0.00	0.00		0.00
86955	ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON Number of Units	140 1	MI	0.00	0.00		0.00
87605	FUEL SURCHG-CMT & CMT ADDITIVES NUMBER OF TONS	70 15.959	MI	0.00	0.00		0.00
<b>Totals USD</b>					<b>\$ 24,561.60</b>	<b>\$ 7,541.79</b>	<b>\$ 17,019.81</b>



HALLIBURTON

Original

Field Ticket Signature

Field Ticket Number: 0801445007	Field Ticket Date: Monday, June 23, 2014	Planning Order #: NA
<b>Bill To:</b> SANDRIDGE ENERGY INC EBUSINESS, PO BOX 548807 - DO NOT MAIL, OKLAHOMA CITY, OK 73154	<b>Job Name:</b> 7" Intermediate Casing <b>Order Type:</b> ZOH <b>Well Name:</b> SUBERA 3404 2-18H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> WOODWARD Shipping Point <b>Sales Office:</b> MID-CONTINENT 80 <b>Well Type:</b> HORIZONTAL OIL <b>Well Category:</b> Development	
<b>Ship To:</b> SUBERA 3404 2-18H SUMNER, CORBIN, KS, 67022		

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total	\$ 24,561 80
Item Discount Total:	\$ 7,541 70
Net Amount Total:	\$ 17,019 81 USD

Customer Representative Signature: \_\_\_\_\_

Date: \_\_\_\_\_

arLro  
Customer Representative

David Hahn  
Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)

Yes  No

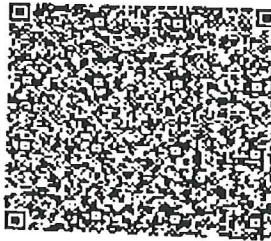
Were you satisfied with our equipment?

Yes  No

Were you satisfied with our people?

Yes  No

Comments:



AFE Number: DC 13842  
 Well Name: Subera 3404 2-18H  
 Code: 830-370  
 Amount: \$ 17,019.81  
 Co. Man: Antonio Lerja Jr  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_



al 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	500	4772	3776
BHL	9001	91.78	179.16	4491.60	-4429.68	495.96	4457.08	0.00	4941	330	4271	1050
Miss Entry	4642	67.48	178.88	4402.07	-81.48	507.21	131.89	8.90	593	4678	4284	1046
Top Perf	4700	71.33	179.09	4422.43	-135.76	508.42	186.02	6.99	648	4624	4285	1045
Bottom Perf	8910	91.85	178.56	4494.48	-4338.74	494.17	4366.42	2.99	4850	421	4269	1052

Survey Point	North Corner XY Coord	X	Y	Surface XY	X	Y	North Line slope	m
SW Corner XY Coord	2203687	157091		2207464	156678		0.023073	
NE Corner XY Coord	2209018	157214					0.001708	
SE Corner XY Coord	2209009	151944					0.024624	
							-0.000379	

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	500	4772	3776	1554
15	0.00	0.00	15.00	0.0	0.0	0.00	0.00	500	4772	3776	1554
250	0.75	347.02	249.99	1.5	-0.3	-1.53	0.32	499	4774	3776	1554
500	0.25	347.02	499.98	3.6	-0.8	-3.69	0.20	496	4776	3776	1554
611	0.45	347.02	610.98	4.3	-1.0	-4.36	0.18	496	4776	3775	1555
704	1.57	50.25	703.97	5.5	-0.1	-5.44	1.53	495	4778	3776	1554
751	2.36	52.46	750.94	6.5	1.2	-6.31	1.69	494	4778	3778	1552
797	3.17	52.72	796.88	7.8	2.9	-7.47	1.76	492	4780	3779	1551
844	4.51	49.28	843.78	9.8	5.4	-9.21	2.89	490	4782	3782	1548
890	5.26	45.98	889.61	12.4	8.3	-11.55	1.74	488	4784	3785	1545
937	6.15	47.44	936.38	15.6	11.7	-14.40	1.92	485	4787	3788	1542
983	7.46	47.69	982.05	19.3	15.7	-17.65	2.85	481	4791	3792	1538
1030	8.75	48.24	1028.58	23.8	20.6	-21.57	2.75	477	4795	3797	1533
1076	9.34	48.44	1074.01	28.6	26.0	-25.81	1.28	472	4800	3802	1528
1123	10.38	48.87	1120.32	33.9	32.1	-30.49	2.22	467	4805	3808	1522
1170	10.87	48.34	1166.51	39.6	38.6	-35.55	1.06	461	4811	3815	1515
1217	11.38	49.23	1212.63	45.6	45.4	-40.81	1.14	456	4817	3822	1508
1262	11.71	48.41	1256.72	51.5	52.2	-46.03	0.82	450	4822	3829	1502
1309	11.84	48.25	1302.73	57.9	59.3	-51.65	0.29	444	4828	3836	1494
1354	11.62	48.50	1346.79	64.0	66.2	-57.02	0.50	438	4834	3843	1488
1448	11.77	46.13	1438.84	76.9	80.2	-68.46	0.54	425	4847	3857	1474
1543	11.34	49.39	1531.91	89.7	94.2	-79.78	0.82	413	4859	3871	1460
1637	10.35	49.08	1624.23	101.2	107.6	-89.93	1.06	401	4871	3884	1446
1732	10.36	47.03	1717.68	112.6	120.3	-100.01	0.39	390	4882	3897	1433
1827	9.80	48.70	1811.22	123.8	132.7	-109.88	0.66	379	4893	3909	1421
1890	11.12	52.07	1873.17	131.1	141.5	-116.23	2.31	372	4900	3918	1412
1954	11.31	52.54	1935.95	138.7	151.3	-122.82	0.33	365	4907	3928	1402
2017	11.56	50.30	1997.70	146.5	161.1	-129.59	0.81	357	4915	3937	1393
2112	11.02	45.68	2090.86	158.9	174.9	-140.57	1.11	345	4927	3951	1379
2207	11.11	46.53	2184.09	171.5	188.0	-151.83	0.20	333	4939	3964	1366
2302	12.51	50.47	2277.08	184.4	202.6	-163.15	1.70	320	4951	3979	1351
2397	12.79	49.42	2369.78	197.8	218.5	-174.88	0.38	307	4964	3995	1335
2491	11.88	46.20	2461.61	211.2	233.4	-186.78	1.21	294	4978	4010	1321
2586	10.54	44.06	2554.79	224.2	246.5	-198.42	1.48	282	4990	4023	1307
2649	10.54	46.18	2616.73	232.4	254.7	-205.69	0.62	274	4998	4031	1299
2713	10.98	49.53	2679.61	240.4	263.6	-212.77	1.19	266	5006	4040	1290
2776	12.08	52.75	2741.33	248.3	273.4	-219.63	2.02	258	5014	4050	1281
2839	12.22	53.14	2802.92	256.3	284.0	-226.52	0.26	250	5021	4060	1270
2902	11.21	51.80	2864.61	264.0	294.1	-233.25	1.66	243	5029	4071	1260
2965	10.56	51.24	2926.48	271.4	303.4	-239.68	1.05	236	5036	4080	1251
3028	10.95	49.04	2988.37	279.0	312.4	-246.28	0.90	228	5043	4089	1242
3091	11.78	49.20	3050.13	287.1	321.8	-253.42	1.32	220	5051	4098	1232
3155	11.54	49.06	3112.81	295.6	331.6	-260.86	0.38	212	5059	4108	1222

	3218	10.31	47.80	3174.67	303.5	340.5	-267.85	1.99	205	5067	4117	1214
	3281	9.90	46.44	3236.69	311.0	348.6	-274.51	0.75	197	5074	4125	1205
	3344	10.11	45.00	3298.73	318.7	356.5	-281.33	0.52	190	5082	4133	1198
	3439	10.74	49.98	3392.17	330.2	369.1	-291.59	1.16	178	5093	4146	1185
	3502	11.74	53.00	3453.96	337.9	378.8	-298.22	1.84	171	5101	4155	1175
	3597	11.69	57.48	3546.98	348.9	394.6	-307.57	0.96	160	5111	4171	1160
	3692	9.98	70.74	3640.30	356.8	410.5	-313.83	3.17	153	5119	4187	1144
<b>High DLS</b>	3723	10.18	79.91	3670.82	358.1	415.7	-314.67	5.21	152	5120	4192	1138
<b>please slk</b>	3755	10.96	89.31	3702.28	358.7	421.5	-314.61	5.91	151	5120	4198	1133
<b>RIH speed</b>	3787	11.55	98.55	3733.67	358.2	427.8	-313.55	5.92	152	5120	4204	1126
<b>no greater</b>	3819	12.23	107.10	3764.98	356.7	434.2	-311.45	5.89	153	5118	4211	1120
<b>16.5' per i</b>	3850	13.12	116.09	3795.23	354.2	440.5	-308.31	6.97	156	5115	4217	1114
<b>hook up t</b>	3882	13.99	123.57	3826.34	350.5	446.9	-303.95	6.11	160	5112	4223	1107
<b>weight lin</b>	3913	14.49	128.23	3856.39	346.0	453.1	-298.88	4.03	165	5107	4230	1101
<b>any drag</b>	3977	16.01	140.82	3918.15	334.2	465.0	-285.95	5.68	177	5095	4241	1089
	4009	17.88	147.79	3948.77	326.6	470.4	-277.87	8.62	184	5087	4247	1084
	4041	19.96	155.00	3979.04	317.5	475.3	-268.31	9.77	194	5078	4252	1079
	4072	21.77	161.05	4008.01	307.3	479.4	-257.72	9.07	204	5068	4256	1075
<b>High DLS</b>	4103	23.84	164.84	4036.58	295.8	482.9	-245.94	8.18	215	5056	4259	1071
<b>please slk</b>	4135	26.17	170.17	4065.59	282.6	485.8	-232.51	10.12	229	5043	4262	1068
<b>RIH speed</b>	4167	29.14	169.46	4093.93	268.0	488.5	-217.71	9.34	243	5028	4265	1066
<b>no greater</b>	4198	31.90	171.44	4120.63	252.5	491.1	-202.00	9.47	259	5012	4267	1063
<b>16.5' per i</b>	4230	35.15	173.14	4147.31	235.0	493.4	-184.34	10.57	277	4995	4270	1061
<b>hook up t</b>	4262	38.10	174.26	4172.98	216.0	495.5	-165.26	9.45	296	4976	4272	1058
<b>weight lin</b>	4293	40.36	173.93	4197.00	196.5	497.5	-145.65	7.32	315	4956	4274	1056
<b>any drag</b>	4325	42.92	175.25	4220.91	175.3	499.5	-124.39	8.46	336	4935	4276	1054
	4356	45.07	176.12	4243.21	153.9	501.1	-102.87	7.20	358	4914	4278	1053
	4388	46.47	177.13	4265.53	131.0	502.5	-79.96	4.92	381	4891	4279	1051
<b>High DLS</b>	4420	49.40	177.32	4286.97	107.2	503.6	-56.24	9.17	405	4867	4280	1050
<b>please slk</b>	4451	52.15	178.19	4306.57	83.2	504.6	-32.27	9.13	429	4843	4281	1049
<b>RIH speed</b>	4483	54.78	178.35	4325.62	57.5	505.4	-6.63	8.23	454	4817	4282	1048
<b>no greater</b>	4515	57.09	179.12	4343.54	31.0	505.9	19.80	7.49	481	4791	4282	1048
<b>16.5' per i</b>	4546	60.34	179.12	4359.64	4.6	506.3	46.19	10.48	507	4764	4283	1047
<b>hook up t</b>	4578	62.65	179.95	4374.91	-23.6	506.6	74.19	7.57	535	4736	4283	1047
<b>weight lin</b>	4609	64.57	179.34	4388.69	-51.3	506.7	101.84	6.44	563	4708	4283	1047
<b>any drag</b>	4641	67.41	178.89	4401.70	-80.5	507.2	130.96	8.97	592	4679	4284	1046
	4673	69.54	178.42	4413.45	-110.3	507.9	160.64	6.80	622	4649	4284	1046
	4704	71.59	179.19	4423.76	-139.5	508.5	189.78	7.02	651	4620	4285	1045
	4736	74.02	178.26	4433.22	-170.1	509.2	220.25	8.09	682	4589	4285	1044
	4768	76.63	179.06	4441.33	-201.0	509.9	251.11	8.51	713	4558	4286	1043
	4799	78.41	179.28	4448.02	-231.3	510.3	281.27	5.78	743	4528	4287	1043
	4831	81.12	179.57	4453.71	-262.8	510.7	312.63	8.52	775	4497	4287	1042
<b>Top of Ta</b>	4862	83.02	179.28	4457.99	-293.5	511.0	343.20	6.20	805	4466	4287	1042
<b>@ 4920'</b>	4909	83.89	180.63	4463.34	-340.2	511.0	389.66	3.40	852	4419	4287	1042
	4957	84.61	181.13	4468.15	-387.9	510.3	437.10	1.82	900	4372	4286	1043
<b>Set @</b>	<b>5052</b>	<b>85.88</b>	<b>181.59</b>	<b>4476.03</b>	<b>-482.6</b>	<b>508.0</b>	<b>531.05</b>	<b>1.42</b>	<b>994</b>	<b>4277</b>	<b>4284</b>	<b>1045</b>
<b>Btm of Ta</b>	5147	87.23	181.53	4481.74	-577.4	505.4	625.10	1.42	1089	4182	4282	1047
<b>@ 5145'</b>	5231	89.08	182.75	4484.44	-661.3	502.3	708.26	2.64	1173	4098	4278	1050
	5280	90.22	182.64	4484.74	-710.2	500.0	756.72	2.34	1222	4050	4276	1052
	5343	90.25	183.48	4484.48	-773.1	496.6	818.98	1.33	1285	3987	4273	1056
	5438	90.09	182.04	4484.20	-868.0	492.1	912.93	1.53	1379	3892	4268	1060
	5532	90.49	182.52	4483.72	-961.9	488.3	1006.01	0.66	1473	3798	4264	1064
	5628	89.51	180.77	4483.72	-1058	486	1101.20	2.09	1569	3702	4262	1066
	5721	89.78	181.29	4484.30	-1151	484	1193.55	0.63	1662	3609	4260	1068
	5816	89.45	180.65	4484.94	-1246	482	1287.90	0.76	1757	3514	4258	1069
	5911	90.71	181.91	4484.81	-1341	480	1382.18	1.88	1852	3419	4256	1071
	6005	88.49	181.98	4485.46	-1435	477	1475.32	2.36	1946	3326	4253	1074
	6100	88.92	181.76	4487.61	-1530	474	1569.46	0.51	2041	3231	4250	1077
	6189	90.25	181.52	4488.25	-1619	471	1657.72	1.52	2130	3142	4247	1079
	6220	90.62	182.08	4488.02	-1650	470	1688.45	2.17	2161	3111	4246	1080
	6315	91.26	181.39	4486.46	-1745	467	1782.62	0.99	2255	3016	4243	1083

6409	91.20	179.35	4484.44	-1839	467	1876.06	2.17	2349	2922	4243	1084
6504	89.26	179.57	4484.06	-1934	468	1970.66	2.06	2444	2827	4243	1083
6599	88.12	179.94	4486.23	-2029	468	2065.20	1.26	2539	2732	4244	1082
6694	88.92	179.69	4488.69	-2123	468	2159.72	0.88	2634	2637	4244	1081
6789	89.38	179.45	4490.10	-2218	469	2254.30	0.55	2729	2542	4245	1081
6884	88.68	179.01	4491.70	-2313	470	2348.93	0.87	2824	2447	4246	1079
6978	89.66	179.00	4493.07	-2407	472	2442.59	1.04	2918	2353	4248	1077
7073	91.17	179.99	4492.38	-2502	473	2537.19	1.90	3013	2258	4248	1076
7168	92.37	178.93	4489.44	-2597	474	2631.75	1.69	3108	2163	4249	1075
7263	91.82	181.12	4485.97	-2692	474	2726.20	2.38	3203	2068	4249	1075
7358	89.66	180.41	4484.74	-2787	473	2820.57	2.39	3298	1973	4248	1076
7452	91.63	179.84	4483.68	-2881	472	2914.06	2.18	3392	1879	4248	1076
7547	90.12	179.99	4482.23	-2976	472	3008.59	1.60	3487	1784	4248	1076
7642	89.66	179.24	4482.42	-3071	473	3103.17	0.93	3582	1689	4248	1075
7737	89.45	178.47	4483.15	-3166	475	3197.86	0.84	3677	1594	4250	1073
7831	92.37	178.92	4481.66	-3260	477	3291.55	3.14	3771	1500	4252	1071
7926	90.22	179.39	4479.51	-3355	479	3386.18	2.32	3866	1405	4254	1069
8021	88.71	179.61	4480.40	-3450	479	3480.77	1.61	3961	1310	4254	1068
8116	88.92	179.47	4482.37	-3545	480	3575.34	0.27	4056	1215	4255	1067
8210	88.09	179.86	4484.82	-3639	481	3668.89	0.98	4150	1121	4256	1067
8305	89.14	179.22	4487.11	-3734	481	3763.46	1.29	4245	1026	4256	1066
8400	88.70	179.23	4488.91	-3829	483	3858.08	0.46	4340	931	4258	1064
8494	89.14	179.34	4490.68	-3923	484	3951.70	0.48	4434	837	4259	1063
8589	89.20	177.81	4492.05	-4018	486	4046.42	1.61	4529	742	4261	1060
8684	89.35	178.87	4493.26	-4113	489	4141.17	1.13	4624	647	4264	1058
8778	87.90	178.93	4495.51	-4207	491	4234.83	1.54	4718	553	4266	1056
8873	91.91	178.09	4495.67	-4302	493	4329.55	4.31	4813	458	4268	1053
8958	91.78	179.16	4492.93	-4387	495	4414.26	1.27	4898	373	4270	1051
9001	91.78	179.16	4491.60	-4430	496	4457.08	0.00	4941	330	4271	1050

Section 7  
34S 4W

MURPHY SWD 3404 1-18

JANET 3404 1-7H



SUBERA 3404 2-18H

Miss Entry: 4642'  
-97.787312 37.094613

Top Perf: 4798'  
-97.787292 37.094206

Section 18  
34S 4W

Sumner County

Bottom Perf: 8885'  
-97.787087 37.083134

BHL: 9001'  
-97.787068 37.082787

330' FSL

1050' FEL

Section 19  
34S 4W



Actual Bottom-Hole Location of Subera 3404 2-18H  
T&R: 34S 4W  
Section: 18, 1050' FEL & 330' FSL  
-97.787068 37.082787

1 in = 667 ft

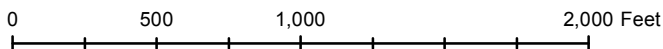


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 9/24/2014

Drawing Name/Number:

Addendum\_Subera 3404 2-18H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/15/2014
Job End Date:	7/15/2014
State:	Kansas
County:	Sumner
API Number:	15-191-22753-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Subera 3404 #2-18H
Longitude:	-97.77874100
Latitude:	37.09478600
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,491
Total Base Water Volume (gal):	2,589,972
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	Well Operator	Carrier/Base Fluid	Water	7732-18-5	100.00000	95.79968	None
40/70 Premium Preferred Sand	Cimarron Acid	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	100.00000	2.82107	None
15% Uninhibited HCl Acid	Cimarron Acid	Etching, Dissolving, Cleaning	Water	7732-18-5	85.00000	0.64217	None
			Hydrochloric Acid	7647-01-0	15.00000	0.11332	None
			Water	7732-18-5	24.00000	0.00015	None
			Methanol	67-56-1	9.00000	0.00006	None
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00005	None
			Triethyl Phosphate	78-40-0	8.40000	0.00005	None
			Ethylene Glycol	107-21-1	8.40000	0.00005	None
			Cinnamaldehyde	104-55-2	8.40000	0.00005	None
			N-Dimethylformamide	68-12-2	8.40000	0.00005	None
			Tar Bases-quinoline derivs-benzyl chloride/quaternized	72480-70-7	8.40000	0.00005	None
			Isopropyl Alcohol	67-63-0	8.40000	0.00005	None
			2-Butoxyethanol	111-76-2	8.40000	0.00005	None

40/70 Resin Coated Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	97.00000	0.47664	None
Iron Control, Sodium Erythorbate	Cimarron Acid	Iron Control					
			Water	7732-18-5	55.50000	0.02547	None
			Methanol	67-56-1	12.70000	0.00585	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00418	None
			Nonylphenal Polyethylene Glycol Ether	127087-87-0	9.10000	0.00418	None
			Poly(ethylene Oxide)	25322-68-3	9.10000	0.00418	None
			Isopropanol	67-63-0	4.60000	0.00209	None
			Sodium Erythorbate	6381-77-7	100.00000	0.00024	None
			Water	7732-18-5	54.50000	0.00019	None
			Polyglycol Ethers	52624-57-4	13.60000	0.00005	None
			Isopropanol	67-63-0	13.60000	0.00005	None
			Methanol	67-56-1	9.00000	0.00003	None
			Glycol Ether EB	111-76-2	9.00000	0.00003	None
FR-986, Cationic Friction Reducer	Cimarron Acid	Friction Reducer					
			Water	7732-18-5	50.00000	0.00503	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00188	None
			Phosphoric Acid	7664-38-2	16.80000	0.00169	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00169	None
			Ethylene Glycol	107-21-1	12.70000	0.00128	None
			Methanol	67-56-1	3.60000	0.00037	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.

\* 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)