



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1219150  
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: \_\_\_\_\_

1219150

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> _____
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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 1-17H
Doc ID	1219150

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8970-9184	1500 gals 15% HCl Acid, 6076 bbls Fresh Slickwater, Running TLTR 6409 bbls	
5	8640-8910	1500 gals 15% HCl Acid, 5687 bbls Fresh Slickwater, Running TLTR 12267 bbls	
5	8262-8562	1500 gals 15% HCl Acid, 5802 bbls Fresh Slickwater, Running TLTR 18204 bbls	
5	7914-8190	1500 gals 15% HCl Acid, 5720 bbls Fresh Slickwater, Running TLTR 24040 bbls	
5	7500-7815	1500 gals 15% HCl Acid, 5708 bbls Fresh Slickwater, Running TLTR 29870 bbls	
5	7157-7410	1500 gals 15% HCl Acid, 5674 bbls Fresh Slickwater, Running TLTR 35540 bbls	
5	6805-7083	1500 gals 15% HCl Acid, 5675 bbls Fresh Slickwater, Running TLTR 41298 bbls	
5	6415-6675	1500 gals 15% HCl Acid, 5712 bbls Fresh Slickwater, Running TLTR 47081 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Subera 3404 1-17H
Doc ID	1219150

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6026-6335	1500 gals 15% HCl Acid, 5628 bbls Fresh Slickwater, Running TLTR 52802 bbls	
5	5673-5920	1500 gals 15% HCl Acid, 5619 bbls Fresh Slickwater, Running TLTR 58471 bbls	
5	5240-5575	1500 gals 15% HCl Acid, 5598 bbls Fresh Slickwater, Running TLTR 64106 bbls	
5	4758-4960	1500 gals 15% HCl Acid, 4053 bbls Fresh Slickwater, Running TLTR 68159 bbls	



# Mid-Continent Conductor, LLC

# Invoice

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

Date	Invoice #
4/24/2014	2626

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
Felix Ortiz	Net 30	4/24/2014	Subera 3404 I-17H, Sumner Cnty, KS	Unit 310

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole.
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe.
Mouse Hole	80	Drilled 80 ft. mouse hole.
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe.
Cellar Hole	1	Drilled 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	12	Furnished 12 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: DC13839  
 Well Name: SUBERA 3404-1-17H  
 Code: 850.010  
 Amount: 18,500  
 Co. Man: MICHAEL KULCHISKY  
 Co. Man Sig: [Signature]  
 Notes: \_\_\_\_\_

<b>Subtotal</b>	\$18,500.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$18,500.00</b>

<b>Field Ticket Number:</b> 0901310648	<b>Field Ticket Date:</b> Wednesday, April 30, 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- 1-17 H <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- 1-17 H,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
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1 FT 2500	EA	7,095.00	7,095.00		7,095.00
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	3224.05	3,355.65
101216940	CHEM, Pol-E-Flake, 25 lb bag Poly-E-Flake	48	LB	0.00	0.00		0.00
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK Calcium Chloride, Pellet	11	SK	0.00	0.00		0.00
452986	CMT, HalCem (TM) system	150	SK	47.04	7,056.00	3457.44	3,598.56
101216940	CHEM, Pol-E-Flake, 25 lb bag Poly-E-Flake	19	LB	0.00	0.00		0.00
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK Calcium Chloride, Pellet	6	SK	0.00	0.00		0.00
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI	382	CF	0.00	0.00		0.00
86954	ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	140	MI	0.00	0.00		0.00
86955	ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON	140	MI	0.00	0.00		0.00
87605	FUEL SURCHG-CMT & CMT ADDITIVES	70	MI	0.00	0.00		0.00
76400	MILEAGE,CMT MTLs DEL/RET MIN	70	MI	0.00	0.00		0.00
<b>Totals USD</b>					<b>\$ 20,730.70</b>	<b>\$ 6,681.49</b>	<b>\$ 14,049.21</b>

# HALLIBURTON

*Original*

## Field Ticket Signature

<b>Field Ticket Number:</b> 0901310648	<b>Field Ticket Date:</b> Wednesday, April 30, 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- 1-17 H <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- 1-17 H,SUMNER, CORBIN, KS, 67022		

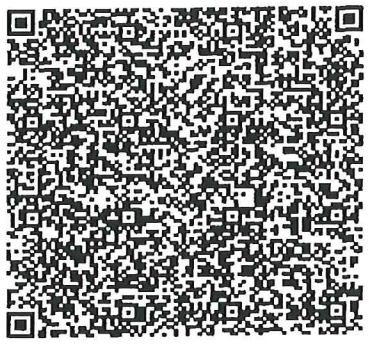
THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total:	\$ 20,730.70
Item Discount Total:	\$ 6,681.49
<b>Net Amount Total:</b>	<b>\$ 14,049.21 USD</b>

Customer Representative Signature:	Date:
Antonio Leija	Billy Underwood
Customer Representative	Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)	Were you satisfied with our equipment?	Were you satisfied with our people?
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Comments:



AFE number: DC13839  
 Well Name: Subera 3404 1-17H  
 Code: 83 0-360  
 Amount: \$ 14,049.21  
 Co. Man: Antonio Leija PR  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_



# Summary Report



Sales Order #: 0901310648  
WO #: 0901310648  
PO/AFE #: NA

Crew: \_\_\_\_\_

Job Start Date: 4/30/2014

Customer: SANDRIDGE ENERGY INC  
EBUSINESS  
UWI / API Number: 15-191-22735-01  
Well Name: SUBERA -3404-  
Well No: 1-17 H

Field: EDEN ROAD WEST  
County/Parish: SUMNER  
State: KANSAS  
Latitude: 37.096957  
Longitude: -97.776287  
Sect / Twn / Rng: 8/34/4

Job Type: CMT SURFACE  
CASING BOM  
Service Supervisor: Billy Underwood  
Cust Rep Name: Antonio Leija  
Cust Rep Phone #:

<b>Remarks:</b>		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature 	Date
	Customer Representative Printed Name <i>Antonio Leija JR</i>	

Field Ticket Number: 0901324266	Field Ticket Date: Tuesday, May 06, 2014	Planning Order #: NA
<b>Bill To:</b> SANDRIDGE ENERGY INC EBUSINESS, PO BOX 548907 - 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- 1-17 H <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- 1-17 H,SUMNER, CORBIN, KS, 67022		

Material	Description	Qty	Unit	Unit Amount	Gross Amount	Discount	Net Amount
7522	CMT INTERMEDIATE CASING BOM	1	Job	0.00	0.00		0.00
16091	ZI - PUMPING CHARGE DEPTH FEET/METERS (FT/M)	1 7500	EA FT	10,733.00	10,733.00	11.000 %	9,552.37
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
141	RCM II W/ADC, JOB, ZI	1	Job	0.00	0.00		0.00
132	PORT. DAS W/CEMWN;ACQUIRE W/HES, 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	BG	0.00	0.00		0.00
452992	CMT, EconoCem (TM) system	160	SK	0.00	4,984.00		2,492.00
100001617	CHEM, Halad-9, 50 lb Halad(R)-9	58	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	0.00	9,156.10		4,578.05
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	364	CF	0.00	0.00		0.00
86954	ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	140	MI	0.00	0.00		0.00
86955	ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON	140	MI	0.00	0.00		0.00
87605	FUEL SURCHG-CMT & CMT ADDITIVES	70	MI	0.00	0.00		0.00
<b>Totals USD</b>					<b>\$ 24,873.10</b>	<b>\$ 8,250.68</b>	<b>\$ 16,622.42</b>

Notes:  
 Co. Man Sig.: *[Signature]*  
 Co. Man: *[Signature]*  
 Amount: \$ 16,622.42  
 Code: 830.370  
 Well Name: *Subera 3404 1-17H*  
 AFE Number: *DC 13839*

Field Ticket Signature

Field Ticket Number: 0901324266      Field Ticket Date: Tuesday, May 06, 2014      Planning Order #: NA

**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- 1-17 H  
**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- 1-17 H,SUMNER,  
CORBIN, KS, 67022

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Gross Amount Total: \$ 24,873.10  
Item Discount Total: \$ 8,250.68  
Net Amount Total: \$ 16,622.42 USD

  
Customer Representative Signature:

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

Customer Representative

Brian Penn  
Halliburton Representative

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

Yes     No

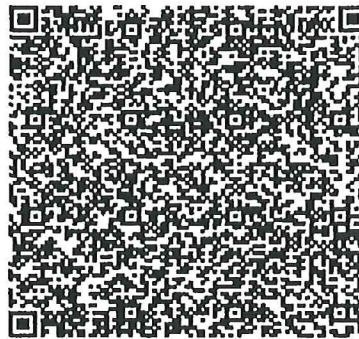
Were you satisfied with our equipment?

Yes     No

Were you satisfied with our people?

Yes     No

Comments:



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	-212	5483	2172	3170
BHL	9353	90.65	181.52	4507.19	-5144.47	234.98	5149.84	0.00	4938	333	2416	2908
Miss Entry	4574	65.41	171.07	4413.27	-392.31	63.38	394.83	8.28	182	5089	2236	3105
Top Perf	4760	78.74	168.89	4469.94	-566.27	94.15	570.03	6.20	357	4915	2267	3073
Bottom Perf	9239	90.58	180.82	4508.43	-5030.51	237.51	5036.12	0.14	4825	447	2418	2906

Survey Points	X		Y		Surface XY		m			
	NW Corner XY Coord	2209018	157214	X	Y	North Line slope	0.0245227			
	SW Corner XY Coord	2209009	151944	2211190.3	157479.1	East Line slope	0.0053091			
	NE Corner XY Coord	2214360	157345			South Line slope	0.0238587			
	SE Corner XY Coord	2214332	152071			West Line slope	0.0017078			

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	-212	5483	2172	3170
15	0.00	0.00	15.00	0.0	0.0	0.00	0.00	-212	5483	2172	3170
260	0.25	268.36	260.00	0.0	-0.5	-0.01	0.10	-212	5483	2171	3171
520	0.75	268.36	519.99	-0.1	-2.8	-0.05	0.19	-212	5483	2169	3173
613	0.40	268.36	612.98	-0.1	-3.7	-0.07	0.38	-212	5483	2168	3174
1075	0.45	34.53	1074.98	1.3	-4.3	-1.54	0.16	-213	5485	2168	3175
1542	0.41	27.22	1541.96	4.3	-2.5	-4.45	0.01	-216	5487	2169	3173
2017	0.25	100.33	2016.96	5.7	-0.7	-5.69	0.09	-218	5489	2171	3171
2491	0.11	2.75	2490.96	5.9	0.3	-5.91	0.06	-218	5489	2172	3170
2965	0.55	1.84	2964.95	8.7	0.4	-8.63	0.09	-220	5492	2172	3170
3438	0.80	297.48	3437.92	12.5	-2.4	-12.55	0.16	-224	5496	2169	3173
3722	0.35	227.57	3721.91	12.8	-4.8	-12.99	0.27	-225	5496	2167	3175
3753	2.09	172.71	3752.90	12.2	-4.8	-12.37	6.16	-224	5495	2167	3175
3785	3.74	169.96	3784.86	10.6	-4.6	-10.75	5.17	-222	5494	2167	3175
3817	5.97	168.31	3816.74	7.9	-4.1	-8.07	6.98	-220	5491	2168	3175
3848	7.91	167.06	3847.51	4.2	-3.3	-4.38	6.28	-216	5487	2169	3174
3880	9.61	166.54	3879.14	-0.5	-2.1	0.41	5.32	-211	5483	2170	3173
3911	11.73	168.07	3909.60	-6.1	-0.9	6.06	6.90	-206	5477	2171	3171
3942	14.07	169.42	3939.82	-12.9	0.5	12.90	7.61	-199	5470	2172	3170
3974	16.14	170.65	3970.71	-21.1	1.9	21.17	6.55	-191	5462	2174	3168
4006	18.44	171.05	4001.26	-30.5	3.4	30.62	7.20	-181	5452	2175	3167
4037	20.41	171.37	4030.49	-40.7	5.0	40.87	6.36	-171	5442	2177	3165
4069	23.09	171.88	4060.21	-52.4	6.7	52.67	8.40	-159	5430	2179	3163
4100	25.47	171.39	4088.47	-65.0	8.6	65.35	7.70	-147	5418	2181	3162
4132	28.21	170.97	4117.02	-79.3	10.8	79.72	8.58	-132	5404	2183	3159
4163	30.95	170.93	4143.98	-94.4	13.2	94.92	8.84	-117	5388	2185	3157
4195	33.53	170.73	4171.04	-111.3	15.9	111.88	8.07	-100	5371	2188	3154
4226	36.39	170.02	4196.44	-128.8	18.9	129.51	9.32	-83	5354	2191	3151
4258	39.10	170.06	4221.75	-148.1	22.3	148.94	8.47	-63	5334	2194	3147
4289	41.39	169.78	4245.41	-167.8	25.8	168.80	7.41	-43	5315	2198	3144
4321	44.18	169.85	4268.89	-189.2	29.6	190.35	8.72	-22	5293	2202	3140
4352	46.74	170.44	4290.63	-210.9	33.4	212.27	8.37	0	5271	2206	3136
4384	49.25	170.27	4312.04	-234.4	37.4	235.87	7.85	23	5248	2210	3132
4416	52.32	170.89	4332.27	-258.8	41.4	260.48	9.71	48	5223	2214	3128
4447	55.19	170.95	4350.60	-283.5	45.4	285.33	9.26	73	5198	2218	3124
4479	57.80	170.88	4368.26	-309.9	49.6	311.84	8.16	99	5172	2222	3119
4510	60.58	170.16	4384.14	-336.1	54.0	338.27	9.19	126	5146	2226	3115
4542	62.84	170.36	4399.30	-363.9	58.7	366.23	7.08	154	5118	2231	3110
4574	65.41	171.07	4413.27	-392.3	63.4	394.83	8.28	182	5089	2236	3105
4605	67.50	171.10	4425.65	-420.4	67.8	423.08	6.74	210	5061	2240	3100
4637	69.82	170.40	4437.29	-449.8	72.6	452.69	7.53	240	5032	2245	3095
4669	72.53	169.96	4447.62	-479.6	77.8	482.73	8.57	270	5002	2250	3090
4700	74.80	169.47	4456.34	-508.9	83.1	512.22	7.48	299	4972	2256	3085
4732	77.04	168.92	4464.12	-539.4	88.9	542.94	7.20	330	4942	2262	3079
4764	78.98	168.89	4470.77	-570.1	94.9	573.90	6.06	361	4911	2268	3072
4795	80.63	168.81	4476.26	-600.1	100.8	604.08	5.33	391	4881	2274	3066
4859	84.66	169.73	4484.45	-662.4	112.6	666.91	6.46	453	4818	2286	3054
4906	85.78	169.16	4488.36	-708.4	121.2	713.30	2.67	500	4772	2294	3045
4953	86.49	168.98	4491.53	-754.5	130.1	759.71	1.56	546	4725	2303	3036
5000	87.37	169.11	4494.05	-800.6	139.0	806.15	1.89	592	4679	2312	3027
5048	88.06	168.59	4495.96	-847.6	148.3	853.58	1.80	639	4632	2322	3018
5095	88.74	168.18	4497.27	-893.6	157.7	899.99	1.69	686	4586	2331	3008
5143	89.48	168.30	4498.02	-940.6	167.5	947.38	1.56	733	4538	2341	2998
5168	90.03	167.97	4498.13	-965.1	172.7	972.06	2.57	757	4514	2346	2993
5244	90.92	168.57	4497.50	-1039.5	188.1	1047.11	1.41	832	4439	2362	2977
5307	90.22	169.95	4496.87	-1101.4	199.9	1109.48	2.46	894	4377	2374	2965
5371	90.28	172.36	4496.59	-1164.6	209.7	1173.10	3.77	958	4313	2384	2955
5434	89.44	174.52	4496.75	-1227.2	216.9	1235.95	3.68	1021	4251	2391	2947
5529	87.66	176.39	4499.15	-1321.9	224.4	1330.86	2.72	1116	4156	2399	2939
5624	86.70	177.38	4503.82	-1416.6	229.6	1425.74	1.45	1210	4061	2404	2933
5719	86.89	178.00	4509.13	-1511.4	233.4	1520.59	0.68	1305	3966	2408	2929
5813	88.86	179.88	4512.62	-1605.3	235.1	1614.48	2.90	1399	3872	2410	2927
5908	88.92	179.87	4514.46	-1700.3	235.3	1709.37	0.06	1494	3777	2410	2926
6003	89.82	179.78	4515.51	-1795.3	235.6	1804.27	0.95	1589	3682	2411	2925
6098	90.93	179.33	4514.88	-1890.3	236.4	1899.19	1.26	1684	3587	2411	2924



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
6192	90.86	179.53	4513.42	-1984.3	237.3	1993.12	0.23	1778	3493	2413	2923
6287	91.85	179.96	4511.17	-2079.2	237.7	2088.01	1.14	1873	3398	2413	2922
6382	91.14	180.61	4508.69	-2174.2	237.3	2182.85	1.01	1968	3303	2413	2922
6476	90.22	180.08	4507.57	-2268.2	236.7	2276.71	1.13	2062	3209	2412	2922
6571	89.14	181.07	4508.11	-2363.2	235.7	2371.56	1.54	2157	3114	2412	2922
6666	87.44	181.43	4510.94	-2458.1	233.7	2466.29	1.83	2252	3019	2410	2924
6751	88.27	180.98	4514.12	-2543.0	231.9	2551.04	1.11	2337	2935	2408	2925
6846	89.26	179.93	4516.17	-2638.0	231.1	2645.87	1.52	2432	2840	2407	2925
6909	90.34	180.61	4516.39	-2701.0	230.8	2708.79	2.03	2495	2777	2407	2925
6972	90.86	180.31	4515.73	-2764.0	230.3	2771.69	0.95	2558	2714	2407	2925
7067	88.09	178.86	4516.60	-2859.0	231.0	2866.60	3.29	2653	2619	2408	2924
7120	88.95	178.73	4517.97	-2911.9	232.1	2919.57	1.64	2706	2566	2409	2923
7193	90.34	178.60	4518.42	-2984.9	233.8	2992.54	1.91	2779	2493	2411	2921
7257	91.57	178.61	4517.35	-3048.9	235.4	3056.52	1.92	2843	2429	2412	2919
7352	91.45	179.58	4514.85	-3143.8	236.9	3151.44	1.03	2938	2334	2414	2917
7446	91.42	180.53	4512.50	-3237.8	236.8	3245.30	1.01	3032	2240	2414	2916
7541	91.60	180.44	4509.99	-3332.8	236.0	3340.13	0.21	3127	2145	2414	2917
7636	90.74	180.34	4508.05	-3427.7	235.3	3434.97	0.91	3222	2050	2413	2917
7731	91.17	179.47	4506.47	-3522.7	235.5	3529.86	1.02	3317	1955	2413	2916
7826	91.57	179.52	4504.20	-3617.7	236.3	3624.77	0.42	3412	1860	2414	2915
7889	90.28	179.80	4503.18	-3680.7	236.7	3687.71	2.10	3475	1797	2415	2914
7921	89.94	179.97	4503.12	-3712.7	236.8	3719.67	1.19	3507	1765	2415	2914
8015	90.46	179.89	4502.79	-3806.7	236.9	3813.58	0.56	3601	1671	2415	2913
8110	88.27	179.44	4503.84	-3901.7	237.4	3908.49	2.35	3696	1576	2416	2912
8205	87.38	179.58	4507.45	-3996.6	238.3	4003.35	0.95	3791	1481	2417	2911
8299	89.91	179.44	4509.67	-4090.6	239.1	4097.25	2.70	3885	1387	2418	2910
8394	89.29	179.97	4510.34	-4185.6	239.5	4192.16	0.86	3980	1292	2419	2909
8489	89.85	180.06	4511.05	-4280.6	239.5	4287.06	0.60	4075	1197	2419	2908
8584	90.52	180.21	4510.74	-4375.6	239.3	4381.94	0.72	4170	1102	2419	2908
8679	90.40	179.63	4509.98	-4470.6	239.4	4476.84	0.62	4265	1007	2419	2907
8773	89.78	179.61	4509.83	-4565	240	4570.77	0.66	4359	913	2420	2906
8868	89.82	179.66	4510.16	-4660	241	4665.69	0.07	4454	818	2420	2905
8963	90.15	179.83	4510.19	-4755	241	4760.61	0.39	4549	723	2421	2904
9058	90.25	181.04	4509.86	-4850	240	4855.47	1.28	4644	628	2420	2904
9153	90.49	180.87	4509.24	-4945	239	4950.28	0.31	4739	533	2419	2905
9247	90.59	180.81	4508.36	-5039	237	5044.10	0.12	4833	439	2418	2906
9312	90.65	181.52	4507.65	-5103	236	5108.95	1.10	4897	374	2417	2907
9353	90.65	181.52	4507.19	-5144	235	5149.84	0.00	4938	333	2416	2908

Section 8  
34S 4W

JANET 3404 2-8H

SUBERA 3404 3-17H

DUKE SWD 3404 1-8

SUBERA 3404 1-17H

HARRIET 3404 1-8H

Miss Entry: 4574'  
-97.776031 37.095866

Top Perf: 4760'  
-97.775913 37.095394

Section 17  
34S 4W

Sumner County

Bottom Perf: 9239'  
-97.775128 37.083261

BHL: 9353'  
-97.775130 37.082950

2416' FWL

333' FSL

Section 20  
34S 4W



Actual Bottom-Hole Location of Subera 3404 1-17H  
T&R: 34S 4W  
Section: 17, 2416' FWL & 333' FSL  
-97.775130 37.082950

1 in = 667 ft

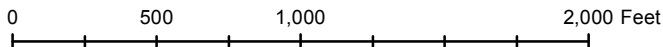


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 8/19/2014

Drawing Name/Number:

Addendum\_Subera 3404 1-17H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502