



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1096357
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: _____



1096357

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sonderegger 2331 1-13H
Doc ID	1096357

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	8828-9077	4275 bbls water, 36 bbls acid, 74M lbs sd, 4311 TLTR	
6	8450-8721	4229 bbls water, 36 bbls acid, 75M lbs sd, 8787 TLTR	
6	8092-8346	4190 bbls water, 36 bbls acid, 75M lbs sd, 13147 TLTR	
6	7702-7962	4144 bbls water, 36 bbls acid, 75M lbs sd, 17457 TLTR	
6	7327-7582	4320 bbls water, 36 bbls acid, 75M lbs sd, 21777 TLTR	
6	6947-7210	4254 bbls water, 36 bbls acid, 74M lbs sd, 26133 TLTR	
6	6568-6824	4228 bbls water, 36 bbls acid, 75M lbs sd, 30361 TLTR	
6	6140-6446	4204 bbls water, 36 bbls acid, 75M lbs sd, 34719 TLTR	
6	5806-6065	4228 bbls water, 36 bbls acid, 73M lbs sd, 39076 TLTR	
6	5438-5676	4099 bbls water, 36 bbls acid, 74M lbs sd, 43250 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sonderegger 2331 1-13H
Doc ID	1096357

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	5050-5306	4265 bbls water, 36 bbls acid, 74M lbs sd, 47579 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sonderegger 2331 1-13H
Doc ID	1096357

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	130	4500 PSI Concrete	13	none
Surface	12.25	9.63	36	1798	Halliburton Extendacem and Swiftcem Systems	615	3% Calcium Chloride, 025 lbm Poly-E-Flake
Intermediate	8.75	7	26	5333	Halliburton Econocem and Halcem Systems	300	.4% halad(R)-9, 2lbm Kol-Seal, 2% Bentonite
Liner	6.12	4.5	11.6	9230	Halliburton Econocem System	500	.4% Halad(R)-9, 2lbm Kol-Seal, 2% Bentonite

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



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

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

Sam Brownback, Governor

October 08, 2012

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

Re: ACO1
API 15-055-22177-01-00
Sonderegger 2331 1-13H
SW/4 Sec.13-23S-31W
Finney County, Kansas

Dear Production Department:

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

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

Respectfully,
Tiffany Golay



*****Conductor, Rat and Mouse Hole Drilling Services*****

Ticket

Company:

Date: 9/4/2012

Sandridge

Drill Rig: Lariate 3	Location: Finney County	Lease Name: Sanderegger 2331 #1-13H
120' of 30" Drilled Conductor Hole 120' of 20" Conductor Pipe(.200 wall) 82ppf 8'x6' Cellar Tinhorn W/Protective Ring Drill & Install cellar 75' of 20" Drilled Moushole 75' of 16" Moushole Pipe Mobilization of Equipment & Road Permitting Fee Welding Services for Pipe & Lids Provided Equipment & Labor for Dirt Removal Provided Personal to Facilitate Diggtess(One Call) Provide Metal for Lids(1 for the Conductor and 2 for the Mouse hole pipe) 13 Yards of 4500PSI concrete Poured down the back side of Conductor Pipe		Sanderegger 2331 1-13H AFE# DC12307 AFE Number: <u>12307</u> Well Name: <u>Sanderegger 2331 1-13</u> Code: <u>850-010</u> Amount: <u>28680</u> Cp. Man: <u>[Signature]</u> Co. Man Sig.: <u>[Signature]</u> Notes: _____
Comments:) Thank You For Your Business If a caving formation and (or) water is found addition fee(s) will be add to cover the cost of tank trucks, vacuum trucks, and cement pump trucks. Prices figured on non-rocky soil conditions, if rock is present then there will be a surcharge.		Total \$28,680.00

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2951405	Quote #:	Sales Order #: 9823001
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Tommy, Mr.	
Well Name: Sondregger 2331	Well #: 1-13H	API/UWI #: 15-055-22177	
Field:	City (SAP): GARDEN CITY	County/Parish: Finney	State: Kansas
Legal Description: Section 13 Township 23S Range 31W			
Contractor: Lariat		Rig/Platform Name/Num: 3	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	8.5	267804	CARRILLO, EDUARDO Carrillo	8.5	371263	LUNA, JOSE A	8.5	480456
RAMIREZ, JORGE M.	8.5	498481						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10286731	70 mile	10741245	70 mile	10744298C	70 mile	10866807	70 mile
10988832	70 mile	11019295	70 mile	11133699	70 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9-17-2012	2	1	9-18-2012	6.5	2			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	17 - Sep - 2012	14:30	CST
Form Type		BHST	Job Started	17 - Sep - 2012	22:00	CST
Job depth MD	1800. ft	Job Depth TVD	Job Completed	18 - Sep - 2012	03:34	CST
Water Depth		Wk Ht Above Floor	Departed Loc	18 - Sep - 2012	05:20	GMT
Perforation Depth (MD)	From	To		18 - Sep - 2012	06:50	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25					1440.		
12.25" Open Hole- Lower				12.25				1440.	1800.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		1800.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	H
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	H
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	425.0	sacks	12.4	2.12	11.68		11.68
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.676 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	190.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement/tbc		136.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	136	Shut In: Instant		Lost Returns	0	Cement Slurry	202	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	30	Actual Displacement	136	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	348
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2951405	Quote #:	Sales Order #: 9855178
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Mr., Tommy	
Well Name: Sonderegger 2331		Well #: 1-13H	API/UWI #: 15-055-22177
Field:	City (SAP): GARDEN CITY	County/Parish: Finney	State: Kansas
Legal Description: Section 13 Township 23S Range 31W			
Contractor: Lariat		Rig/Platform Name/Num: 3	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: RODRIGUEZ, EDGAR	
MBU ID Emp #: 442125			

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LOPEZ, CRISTIAN Adrian	7.5	488085	MENDOZA, VICTOR	10.5	442596	RODRIGUEZ, EDGAR Alejandro	10.5	442125
THOMPSON, RAYLAND Heath	7.5	476826	TORRES, CLEMENTE	10.5	344233			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/29/2012	1	1	9/30/2012	9.5	2			
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					29 - Sep - 2012	16:00	CST
					29 - Sep - 2012	20:00	CST
	5343. ft		5341. ft		30 - Sep - 2012	06:56	CST
			9. ft		30 - Sep - 2012	08:04	CST
					30 - Sep - 2012	09:25	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8.75" Open Hole				8.75				1800.	5315.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5315.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	1800.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 7, HWE, 5.66 MIN/6.54 MAX CS	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	7	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	7	1	HES
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Spacer		30.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	ECONOCEM (TM) SYSTEM (452992)	200.0	sacks	13.6	1.54	7.36		7.36
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.356 Gal	FRESH WATER							
3	Tail Cement	HALCEM (TM) SYSTEM (452986)	100.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement (TBC)		201.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	201	Shut In: Instant		Lost Returns		Cement Slurry	76	Pad	
Top Of Cement	2631.88	5 Min		Cement Returns		Actual Displacement	201	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	307
Rates									
Circulating	5	Mixing	5	Displacing	6	Avg. Job	5		
Cement Left In Pipe	Amount	89.32 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2951405	Quote #:	Sales Order #: 9872658
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ??, Jessie	
Well Name: Sonderegger 2331	Well #: 1-13H	API/UWI #: 15-055-22177	
Field:	City (SAP): GARDEN CITY	County/Parish: Finney	State: Kansas
Legal Description: Section 13 Township 23S Range 31W			
Contractor: Lariat		Rig/Platform Name/Num: 3	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: NGUYEN, VINH		Srvc Supervisor: DURAN, EDUR	MBU ID Emp #: 445769

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DUCSAK, JAMES Joseph	16	518883	DURAN, EDUR	16	445769	REYES GANDARA, JUAN Armando	16	440529
RODRIGUEZ, BENITO	16	519090						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10872308	70 mile	11027051	70 mile	11256865	70 mile	11288858	70 mile
11566184	70 mile	11715921	70 mile	11748313	70 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/06/2012	8	8						
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	9161. ft	BHST	9161. ft	On Location	06 - Oct - 2012	14:00	CST
Job depth MD	9161. ft	Job Depth TVD	9161. ft	Job Started	06 - Oct - 2012	17:00	CST
Water Depth		Wk Ht Above Floor	2. ft	Job Completed	06 - Oct - 2012	20:00	CST
Perforation Depth (MD)	From	To		Departed Loc	06 - Oct - 2012	22:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
6.125" Open Hole				6.125				5315.	9268.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	P-110	4915.	9268.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5315.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	4915.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Spacer		30.00	bbl	8.3	.0	.0	.0	
2	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	500.0	sacks	13.6	1.54	7.36		7.36
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.356 Gal	FRESH WATER							
3	Displacement/TB C		120.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	110	Shut In: Instant		Lost Returns		Cement Slurry	177	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	110	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	4	Displacement	5	Avg. Job			4.5
Cement Left In Pipe	Amount	88 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name		Target Direction	Slot	N / S	E / W	Hole Size	Calculation by		Date	
Sonderegger 2331		1.19	Coordinate						12/20/12	
Job Number		Type of Survey	Tie-in Point				Directional Co.			
0										
Measured Depth	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate		Dogleg Severity	Build Up °/100 ft	Walk/ °/100 ft
						N + / S -	E + / W -			
0	0	0	0	0.00	0.00					
0	0	0		0.00	0.00	0.00	0.00			
1821	1	356	1821	1,820.98	7.91	7.92	-0.60	0.03	0.03	19.53
2044	1	21	223	2,043.97	9.98	9.98	-0.25	0.12	0.04	-150.04
2520	1	37	476	2,519.95	14.01	13.97	1.90	0.04	-0.02	3.32
2994	0	23	474	2,993.93	16.83	16.76	3.63	0.05	-0.04	-2.85
3470	1	34	476	3,469.92	20.08	19.97	5.52	0.07	0.06	2.25
3903	1	6	433	3,902.90	23.87	23.73	6.98	0.07	-0.02	-6.54
3915	1	16	12	3,914.90	23.97	23.83	7.00	0.74	0.00	85.00
3946	1	360	31	3,945.90	24.32	24.17	7.04	1.13	0.97	1,109.03
3978	3	356	32	3,977.88	25.26	25.12	6.99	5.63	5.63	-10.63
4009	5	355	31	4,008.81	27.25	27.12	6.84	7.10	7.10	-4.84
4042	7	353	33	4,041.63	30.67	30.54	6.45	7.31	7.27	-6.97
4073	9	355	31	4,072.31	35.08	34.97	5.99	6.90	6.77	9.03
4105	11	358	32	4,103.79	40.81	40.71	5.68	6.73	6.56	8.44
4136	14	359	31	4,134.04	47.54	47.44	5.52	7.45	7.42	3.23
4168	16	360	32	4,164.98	55.71	55.61	5.46	6.91	6.88	2.81
4199	18	360	31	4,194.64	64.72	64.62	5.46	6.45	6.45	0.00
4231	20	360	32	4,224.90	75.11	75.01	5.42	6.58	6.56	-1.56
4263	22	359	32	4,254.77	86.60	86.51	5.23	6.62	6.56	-2.50
4295	24	359	32	4,284.23	99.06	98.98	5.02	5.36	5.31	1.88
4327	25	360	32	4,313.43	112.15	112.07	4.91	2.28	2.19	1.56
4358	26	0	31	4,341.50	125.30	125.22	4.94	3.96	3.87	#####
4390	28	1	32	4,370.12	139.62	139.55	5.08	5.64	5.63	0.94
4421	29	1	31	4,397.47	154.20	154.13	5.24	3.55	3.55	-0.32
4453	31	359	32	4,425.28	170.02	169.95	5.15	7.13	6.56	1,119.38
4484	33	358	31	4,451.61	186.36	186.30	4.62	7.74	7.42	-4.19
4516	35	358	32	4,478.16	204.19	204.16	3.85	5.94	5.94	0.31
4548	37	357	32	4,504.11	222.87	222.85	3.00	5.67	5.63	-1.25
4580	39	357	32	4,529.34	242.50	242.51	2.08	7.82	7.81	0.62
4612	42	358	32	4,553.56	263.37	263.40	1.26	10.10	10.00	2.19
4643	46	358	31	4,575.84	284.89	284.94	0.60	10.67	10.65	0.97
4675	48	359	32	4,597.68	308.25	308.32	-0.01	7.83	7.81	0.63
4707	50	359	32	4,618.74	332.32	332.41	-0.49	4.23	4.06	1.56
4739	50	359	32	4,639.52	356.64	356.74	-0.89	0.24	0.00	-0.31
4771	49	358	32	4,660.35	380.91	381.02	-1.46	1.77	-0.63	-2.19
4803	49	358	32	4,681.38	404.99	405.13	-2.24	2.60	-2.50	-0.94
4835	49	358	32	4,702.59	428.93	429.08	-3.00	0.94	0.00	1.25
4867	49	358	32	4,723.77	452.88	453.06	-3.67	0.31	0.31	0.00
4899	49	358	32	4,744.91	476.88	477.07	-4.34	0.31	0.31	0.00
4931	50	359	32	4,765.74	501.15	501.36	-4.93	4.48	4.38	1.25
4960	53	360	29	4,783.77	523.84	524.06	-5.26	10.18	10.00	2.41
4994	56	359	34	4,803.48	551.52	551.76	-5.55	9.13	9.12	-0.59
5026	59	359	32	4,820.58	578.55	578.80	-5.96	10.03	10.00	-0.94
5058	63	359	32	4,836.00	606.57	606.83	-6.42	11.88	11.88	0.31
5090	67	360	32	4,849.54	635.54	635.81	-6.70	11.73	11.56	2.19
5121	68	360	31	4,861.38	664.18	664.46	-6.77	4.85	4.84	0.32
5153	71	1	32	4,872.51	694.18	694.46	-6.67	8.62	8.44	#####
5185	74	1	32	4,882.10	724.70	724.98	-6.24	9.85	9.69	1.88
5217	78	2	32	4,889.79	755.75	756.03	-5.53	12.56	12.50	1.25
5249	81	2	32	4,895.54	787.23	787.49	-4.54	9.86	9.69	1.88
5281	84	3	32	4,899.55	818.97	819.21	-3.27	10.08	10.00	1.25
5355	90	2	74	4,903.48	892.82	893.02	-0.30	6.91	6.89	-0.54
5386	90	2	31	4,903.75	923.82	924.00	0.72	1.29	0.00	-1.29
5449	89	2	63	4,904.47	986.81	986.97	2.70	0.57	-0.48	0.32
5511	90	2	62	4,905.17	1,048.80	1,048.94	4.54	0.81	0.48	-0.65
5574	90	1	63	4,905.45	1,111.80	1,111.92	6.08	0.85	0.79	-0.32
5636	91	1	62	4,905.18	1,173.80	1,173.90	7.49	0.81	0.81	0.00

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name		Target Direction		Slot	N / S	E / W	Hole Size	Calculation by		Date
Sonderegger 2331		1.19		Coordinate						12/20/12
Job Number		Type of Survey		Tie-in Point				Directional Co.		
0										
Measured Depth	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate		Dogleg Severity	Build Up %/100 ft	Walk/ %/100 ft
						N + / S -	E + / W -			
0	0	0	0	0.00	0.00			<< TIE-IN POINT >>		
5698	91	1	62	4,904.63	1,235.80	1,235.88	8.79	0.32	0.00	-0.32
5760	90	1	62	4,904.26	1,297.80	1,297.87	9.92	0.51	-0.48	-0.16
5854	90	1	94	4,903.93	1,391.80	1,391.86	11.48	0.11	0.00	-0.11
5916	90	1	62	4,903.82	1,453.80	1,453.85	12.67	0.72	-0.32	0.65
5977	90	1	61	4,903.98	1,514.80	1,514.83	14.11	0.52	-0.49	0.16
6008	90	1	31	4,904.17	1,545.80	1,545.82	14.84	0.46	-0.32	-0.32
6070	90	2	62	4,904.28	1,607.79	1,607.79	16.73	1.74	0.97	1.45
6132	92	2	62	4,903.19	1,669.77	1,669.73	19.22	2.60	2.58	0.32
6162	92	2	30	4,902.15	1,699.74	1,699.68	20.47	1.33	1.33	0.00
6224	93	2	62	4,899.50	1,761.68	1,761.58	22.85	1.03	0.81	-0.65
6287	93	2	63	4,896.36	1,824.59	1,824.47	25.05	0.48	0.48	0.00
6348	92	2	61	4,893.49	1,885.52	1,885.37	27.02	1.10	-0.98	-0.49
6410	93	2	62	4,890.84	1,947.46	1,947.28	28.80	0.23	0.16	-0.16
6472	92	1	62	4,888.30	2,009.41	2,009.21	30.42	0.58	-0.48	-0.32
6534	92	1	62	4,886.30	2,071.38	2,071.17	31.50	1.71	-1.13	-1.29
6597	91	1	63	4,884.92	2,134.36	2,134.15	32.33	0.93	-0.79	0.48
6689	91	0	92	4,883.08	2,226.33	2,226.12	33.21	0.83	0.33	-0.76
6782	90	1	93	4,881.70	2,319.31	2,319.11	33.78	1.02	-0.97	0.32
6878	91	360	96	4,880.61	2,415.28	2,415.10	33.78	1.16	0.52	373.96
6942	90	360	64	4,880.16	2,479.25	2,479.10	33.22	1.56	-1.56	0.00
6974	90	360	32	4,880.22	2,511.24	2,511.10	32.94	0.00	0.00	0.00
7038	90	0	64	4,880.50	2,575.22	2,575.10	32.77	1.19	-0.47	-561.41
7101	90	1	63	4,880.94	2,638.21	2,638.09	33.32	0.95	0.00	0.95
7165	90	1	64	4,881.27	2,702.21	2,702.08	34.55	0.99	0.31	0.94
7229	90	2	64	4,881.44	2,766.21	2,766.05	36.56	1.26	0.16	1.25
7292	90	3	63	4,881.38	2,829.20	2,828.99	39.14	0.67	0.48	0.48
7356	90	3	64	4,881.16	2,893.17	2,892.92	42.10	0.47	0.00	0.47
7420	89	2	64	4,881.44	2,957.16	2,956.86	44.84	1.78	-1.41	-1.09
7484	90	3	64	4,882.11	3,021.14	3,020.80	47.52	0.99	0.31	0.94
7548	90	3	64	4,882.44	3,085.11	3,084.72	50.70	0.78	0.63	0.47
7612	90	3	64	4,882.50	3,149.09	3,148.65	53.83	0.64	0.16	-0.63
7675	90	1	63	4,882.72	3,212.08	3,211.61	55.81	2.62	-0.63	-2.54
7739	90	1	64	4,883.17	3,276.08	3,275.60	57.03	0.31	0.00	0.31
7802	90	0	63	4,883.61	3,339.07	3,338.59	57.86	1.43	0.00	-1.43
7866	89	1	64	4,884.39	3,403.07	3,402.58	58.64	1.56	-0.94	1.25
7929	89	0	63	4,885.49	3,466.05	3,465.57	59.47	1.11	0.00	-1.11
7993	89	1	64	4,886.55	3,530.04	3,529.55	60.47	1.57	0.16	1.56
8057	90	1	64	4,887.16	3,594.04	3,593.53	61.87	1.19	1.09	-0.47
8121	91	0	64	4,886.77	3,658.04	3,657.52	62.70	2.04	1.72	-1.09
8184	91	1	63	4,885.56	3,721.02	3,720.50	63.58	1.42	0.63	1.27
8216	92	1	32	4,884.78	3,753.01	3,752.49	64.31	0.88	0.63	0.63
8280	91	2	64	4,883.16	3,816.99	3,816.44	66.04	0.49	-0.16	0.47
8344	90	2	64	4,882.32	3,880.98	3,880.41	67.94	2.03	-2.03	0.00
8408	90	1	64	4,882.49	3,944.98	3,944.38	69.67	0.91	-0.78	-0.47
8471	90	2	63	4,882.99	4,007.98	4,007.36	71.43	0.65	-0.16	0.63
8535	89	1	64	4,883.71	4,071.97	4,071.33	73.10	1.05	-0.47	-0.94
8599	89	1	64	4,884.77	4,135.96	4,135.31	74.28	0.66	-0.47	-0.47
8663	90	2	64	4,885.67	4,199.95	4,199.29	75.67	1.44	0.94	1.09
8726	90	1	63	4,885.94	4,262.95	4,262.27	76.99	1.50	0.79	-1.27
8790	90	1	64	4,886.00	4,326.95	4,326.26	78.05	0.49	-0.16	0.47
8853	90	2	63	4,886.22	4,389.95	4,389.24	79.70	1.31	-0.32	1.27
8917	90	1	64	4,886.50	4,453.95	4,453.22	81.10	2.04	0.16	-2.03
8981	89	360	64	4,887.11	4,517.94	4,517.22	81.38	1.55	-1.09	561.41
9045	91	1	64	4,887.11	4,581.93	4,581.21	81.88	3.30	2.81	-560.78
9077	92	1	32	4,886.39	4,613.92	4,613.20	82.35	2.67	2.50	-0.94
9173	93	360	96	4,882.62	4,709.83	4,709.13	82.77	1.48	1.15	374.06
9230	93	360	57	4,879.83	4,766.74	4,766.06	82.57	0.00	0.00	0.00

Logo

Back to Well Completion

Sonderegger 2331 1-13H (1096357)

Actions

View PDF
Delete
Edit
Certify & Submit
Request Confidentiality

Attachments

Two Year Confidentiality OPERATOR	View PDF Delete
Cement Reports OPERATOR	View PDF Delete
Directional Survey OPERATOR	View PDF Delete

[Add Attachment](#)

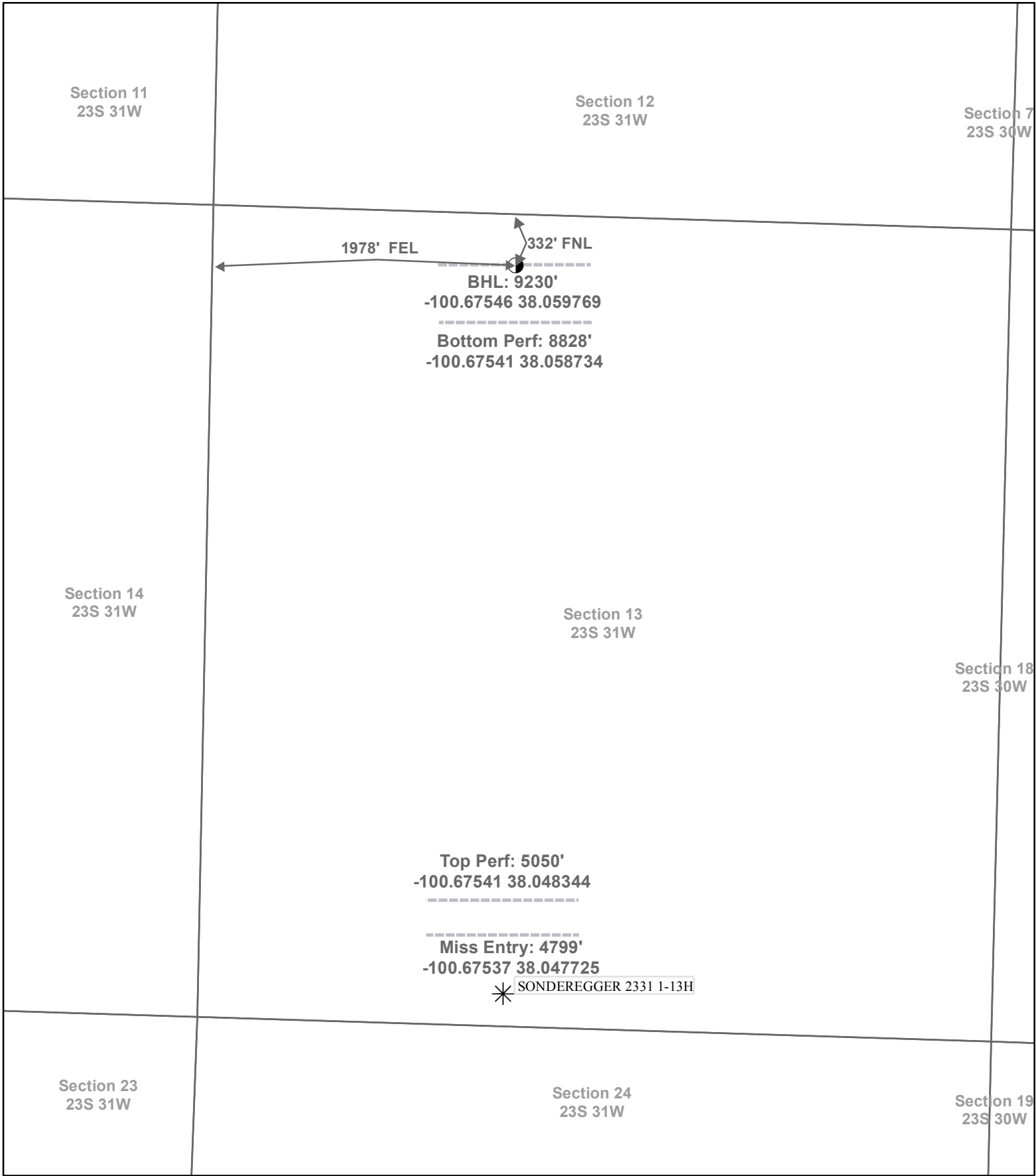
Remarks

Remarks to KCC

[Add Remark](#)

Remarks

Tiffany Golay 12/20/012 12:48 pm	Additional Fluid Mgmt Info: 1680 bbls hauled to Weinett Disposal LLC, NW/4 Section 1079 Block 43, Lipscomb, TX, 10-0992
Tiffany Golay 12/03/012 02:47 pm	Conductor weight= 106.5 lbs/ft



Actual Bottom-Hole Location of Sonderegger 2331 1-13H
 Finney County, Kansas
 T&R: 23S 31W
 Section: 13, 1978' FEL & 332' FNL
 -100.67546 38.059769
 1 in = 833 ft

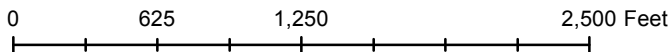


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 12/21/2012

Drawing Name/Number:

Addendum_Sonderegger_1-13H.mxd

Coordinate System:

NAD 1927 State Plane
 Kansas South FIPS: 1502