



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1102420
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: _____



1102420

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

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> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Elsey 3025 1-1H
Doc ID	1102420

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8474-8825	4487 bbls water, 108 bbls acid, 30 bio-balls, 75M lbs sd, 4559 TLTR	
5	8134-8410	4348 bbls water, 108 bbls acid, 30 bio-balls, 76M lbs sd, 9196 TLTR	
5	7671-8006	4393 bbls water, 108 bbls acid, 30 bio-balls, 77M lbs sd, 13589 TLTR	
5	7210-7560	4198 bbls water, 108 bbls acid, 30 bio-balls, 75M lbs sd, 17787 TLTR	
5	6796-7105	4143 bbls water, 108 bbls acid, 30 bio-balls, 77M lbs sd, 21930 TLTR	
5	6364-6736	4142 bbls water, 108 bbls acid, 30 bio-balls, 74M lbs sd, 26136 TLTR	
5	5928-6269	4257 bbls water, 108 bbls acid, 30 bio-balls, 75M lbs sd, 30442 TLTR	
5	5520-5862	3975 bbls water, 108 bbls acid, 30 Bio-balls, 81M lbs sd, 34452 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Elsey 3025 1-1H
Doc ID	1102420

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	8 sack grout	14	none
Surface	12.25	9.63	36	1180	Halliburton Extendacem and Swiftcem Systems	405	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	5690	Halliburton Econocem and Halcem Systems	300	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production Liner	6.12	4.5	11.6	9101	Halliburton Econocem System	450	.4% Halad(R)-9, 2 lbm 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

November 26, 2012

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

Re: ACO1
API 15-025-21548-01-00
Elsey 3025 1-1H
NE/4 Sec.01-30S-25W
Clark 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



P.O. BOX 3660
HOUMA, LA 70361-3660

Customer : SAN400

BILL TO : SANDRIDGE ENERGY
123 ROBERT S KERR AVENUE
OKLAHOMA CITY, OK 73102-6406
PHONE: (405) 753-5500 FAX: ()

Division : 0701
Delivery Ticket : 3059
Delivery Date : 11/5/2012
Office : 12/1/1901

Ordered By :
Lease/Well : ELSEY 3025 #1-1H
Rig Name/Number : LARIATE 41
AFE Number :
Site Contact :

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	ELSEY 3025 #1-1H	\$24,575.00	\$0.00	\$24,575.00	10/29/2012 10/29/2012	\$24,575.00
120	DRILLED 30" CONDUCTOR HOLE-	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
120	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
80	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
80	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	-\$0.00	10/29/2012 10/29/2012	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
14	CEMENT 8 SACK GROUT	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	8' HAY FEEDER	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
1	PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE	\$0.00	\$0.00	\$0.00	10/29/2012 10/29/2012	
Sub Total:		\$24,575.00	\$0.00			\$24,575.00

Print Name

Signature

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2962212	Quote #:	Sales Order #: 9953709
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Solis, Lu	
Well Name: Eley 3025	Well #: 1-1H	API/UWI #: 15-025-21548	
Field:	City (SAP): MINNEOLA	County/Parish: Clark	State: Kansas
Legal Description: Section 1 Township 30S Range 25W			
Contractor: LARIAT		Rig/Platform Name/Num: 41	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: AGUILERA, FABIAN	MBU ID Emp #: 442123

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN	8.5	442123	GARCIA, ADAM Joe	8.5	531492	HEIDT, JAMES Nicholas	8.5	517102
LUNA, JOSE A	8.5	480456	MENDOZA, VICTOR	8.5	442596			

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
11/09/12	8.5	1						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
			On Location	09 - Nov - 2012	06:00	CST
Form Type		BHST	On Location	09 - Nov - 2012	10:30	CST
Job depth MD	1150. ft	Job Depth TVD	Job Started	09 - Nov - 2012	16:04	CST
Water Depth		Wk Ht Above Floor	Job Completed	09 - Nov - 2012	17:06	CST
Perforation Depth (MD) From		To	Departed Loc	09 - Nov - 2012	19:00	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
12.25" Open Hole				12.25					940.		
12.25" Open Hole- Lower				12.25				940.	1150.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		1150.		

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			
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										
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)	280.0	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)	125.0	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		88.00	bbl	8.33	.0	.0	.0		
Calculated Values		Pressures			Volumes					
Displacement	88 BBL	Shut In: Instant		Lost Returns	0	Cement Slurry	133 BBL	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	40 BBL	Actual Displacement	88 BBL	Treatment		
Frac Gradient		15 Min		Spacers	10 BBL	Load and Breakdown		Total Job		
Rates										
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5			
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						

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2962212	Quote #:	Sales Order #: 900005987
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ???? , Quincy	
Well Name: Eley 3025	Well #: 1-1H	API/UWI #: 15-025-21548	
Field:	City (SAP): MINNEOLA	County/Parish: Clark	State: Kansas
Legal Description: Section 1 Township 30S Range 25W			
Contractor: LARIAT		Rig/Platform Name/Num: 41	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srcv 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 #
GARCIA, ADAM	10		JOURNAGAN, MICHAEL	10		RODRIGUEZ, EDGAR Alejandro	10	442125

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
11/16/2012	10	3						
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	16 - Nov - 2012	03:00	CST
Form Type		BHST	Job Started	16 - Nov - 2012	07:00	CST
Job depth MD	5696. ft	Job Depth TVD	Job Completed	16 - Nov - 2012	17:23	CST
Water Depth		Wk Ht Above Floor	Departed Loc	16 - Nov - 2012	18:43	CST
Perforation Depth (MD)	From	To		16 - Nov - 2012	20:20	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				1150.	5754.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110		5754.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		1150.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 7, HW, 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

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	1.53	7.32		7.32
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.321 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		214.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	214	Shut In: Instant		Lost Returns		Cement Slurry	75	Pad	
Top Of Cement	3024.85	5 Min		Cement Returns		Actual Displacement	214	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	319
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	90 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 #: 2962212	Quote #:	Sales Order #: 900025133
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ????, Quincy	
Well Name: Elsey 3025		Well #: 1-1H	API/UWI #: 15-025-21548
Field:	City (SAP): MINNEOLA	County/Parish: Clark	State: Kansas
Legal Description: Section 1 Township 30S Range 25W			
Contractor: LARIAT		Rig/Platform Name/Num: 41	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: NGUYEN, VINH		Srvc Supervisor: RALSTON, ANTHONY	
MBU ID Emp #: 448065			

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BECERRA, JUAN Carlos	9	491933	JOHNSON, MATTHEW Warren	9	525955	RALSTON, ANTHONY Kenneth	9	448065
RAMIREZ, JORGE M.	9	498481						

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
11/24/12	8	3.5	11/25/12	1	1			
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	24 - Nov - 2012	09:00	CST
Form Type	BHST		Job Started	24 - Nov - 2012	15:45	CST
Job depth MD	9350. ft	Job Depth TVD	Job Completed	24 - Nov - 2012	21:00	CST
Water Depth		Wk Ht Above Floor	Departed Loc	24 - Nov - 2012	22:47	CST
Perforation Depth (MD)	From	To		25 - Nov - 2012	01:00	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				5754.	9745.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	P-110	5357.	9745.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5754.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	5357.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			BAKER
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			BAKER
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		20.00	bbl	8.3	.0	.0	3.5	
2	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	450.0	sacks	13.6	1.53	7.24	5.5	7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Displacement		125.00	bbl	8.33	.0	.0	6.5	
Calculated Values		Pressures			Volumes				
Displacement	107	Shut In: Instant		Lost Returns	0	Cement Slurry	123	Pad	
Top Of Cement	3537	5 Min		Cement Returns	0	Actual Displacement	107	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	250
Rates									
Circulating		Mixing	5.5	Displacement		6.5	Avg. Job		6
Cement Left In Pipe	Amount	95.71 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	
Eley 3025 1-1H		180.35		Coordinate										2/12/13	
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 >>				
1441	1	238	1441	1,440.94	6.02	-5.96	-9.62	0.06	0.06	16.53					
1898	1	266	457	1,897.91	8.09	-8.00	-14.66	0.11	-0.09	6.02					
2355	0	164	457	2,354.90	9.02	-8.92	-16.43	0.13	-0.07	-22.23					
2812	1	212	457	2,811.89	11.49	-11.38	-17.26	0.09	0.07	10.42					
3268	0	164	456	3,267.88	14.33	-14.22	-17.97	0.08	-0.04	-10.50					
3725	0	180	457	3,724.88	15.88	-15.77	-17.64	0.05	-0.04	3.59					
4181	0	63	456	4,180.88	15.72	-15.62	-16.58	0.08	0.04	-25.75					
4334	0	59	153	4,333.87	15.26	-15.17	-15.76	0.07	0.07	-2.29					
4365	2	157	31	4,364.87	15.66	-15.56	-15.48	6.12	4.52	315.48					
4395	5	168	30	4,394.81	17.34	-17.25	-15.03	10.50	10.33	36.00					
4426	8	172	31	4,425.63	20.66	-20.58	-14.48	8.85	8.71	14.52					
4456	10	173	30	4,455.28	25.16	-25.08	-13.92	7.35	7.33	3.33					
4486	12	174	30	4,484.74	30.78	-30.69	-13.33	7.03	7.00	3.33					
4517	14	176	31	4,514.96	37.67	-37.59	-12.74	6.53	6.45	4.52					
4547	16	177	30	4,543.94	45.39	-45.31	-12.28	7.10	7.00	4.67					
4578	18	178	31	4,573.57	54.49	-54.42	-11.93	7.19	7.10	3.87					
4608	20	179	30	4,601.94	64.23	-64.16	-11.69	5.01	5.00	1.00					
4639	21	179	31	4,630.98	75.08	-75.01	-11.43	5.16	5.16	-0.32					
4669	23	177	30	4,658.77	86.36	-86.29	-11.02	5.58	5.33	-4.33					
4700	24	177	31	4,687.18	98.75	-98.69	-10.39	4.55	4.52	-1.29					
4730	26	179	30	4,714.31	111.53	-111.47	-9.89	6.73	6.33	5.33					
4761	27	179	31	4,742.01	125.45	-125.40	-9.63	3.48	3.23	2.90					
4791	29	182	30	4,768.53	139.47	-139.41	-9.79	5.72	4.33	8.00					
4821	30	183	30	4,794.69	154.14	-154.08	-10.34	5.45	5.33	2.33					
4852	31	181	31	4,821.34	169.98	-169.92	-10.79	5.04	4.19	-5.48					
4882	33	180	30	4,846.75	185.92	-185.86	-10.84	5.13	4.67	-4.00					
4913	35	178	31	4,872.51	203.16	-203.10	-10.54	6.80	6.45	-3.87					
4943	37	179	30	4,896.81	220.74	-220.69	-10.06	7.34	7.33	0.33					
4973	39	178	30	4,920.53	239.10	-239.04	-9.48	5.15	5.00	-2.00					
5004	40	179	31	4,944.46	258.78	-258.73	-8.88	6.29	6.13	2.26					
5034	42	179	30	4,967.04	278.53	-278.49	-8.52	5.55	5.33	2.33					
5065	43	179	31	4,989.87	299.49	-299.45	-8.21	3.61	3.55	-0.97					
5095	45	179	30	5,011.43	320.34	-320.30	-7.83	6.34	6.33	-0.33					
5126	47	179	31	5,032.99	342.62	-342.58	-7.40	6.13	6.13	0.00					
5156	48	179	30	5,053.27	364.71	-364.67	-6.98	3.67	3.67	0.00					
5186	49	180	30	5,073.19	387.14	-387.10	-6.72	3.48	2.67	3.00					
5217	49	179	31	5,093.55	410.51	-410.48	-6.50	1.96	0.97	-2.26					
5247	49	179	30	5,113.25	433.13	-433.10	-6.18	1.12	-1.00	0.67					
5278	49	179	31	5,133.73	456.40	-456.37	-5.90	0.97	-0.97	0.00					
5308	48	179	30	5,153.71	478.78	-478.75	-5.57	1.83	-1.67	-1.00					
5339	49	179	31	5,174.31	501.94	-501.91	-5.20	2.31	2.26	0.65					
5369	51	179	30	5,193.65	524.86	-524.84	-4.90	7.67	7.67	0.33					
5399	54	180	30	5,211.93	548.64	-548.62	-4.66	9.68	9.67	0.67					
5430	58	180	31	5,229.38	574.26	-574.24	-4.55	12.01	11.94	1.61					
5460	62	181	30	5,244.56	600.13	-600.11	-4.87	13.93	13.33	4.67					
5491	65	181	31	5,258.39	627.86	-627.84	-5.50	12.27	12.26	-0.65					
5521	69	180	30	5,269.94	655.54	-655.52	-5.86	13.29	13.00	-3.00					
5552	73	180	31	5,279.85	684.91	-684.88	-5.85	13.35	13.23	-1.94					
5582	78	180	30	5,287.38	713.94	-713.91	-5.75	13.68	13.67	0.67					
5612	81	181	30	5,292.93	743.41	-743.39	-5.86	12.49	12.33	2.00					
5643	86	181	31	5,296.52	774.20	-774.17	-6.18	13.89	13.87	0.65					
5657	88	181	14	5,297.37	788.17	-788.15	-6.33	14.36	14.29	-1.43					
5743	92	181	86	5,297.82	874.15	-874.12	-7.38	5.14	5.12	0.47					
5774	92	181	31	5,296.79	905.13	-905.10	-7.78	0.97	0.00	-0.97					
5806	92	180	32	5,295.82	937.11	-937.08	-8.01	1.56	-0.94	-1.25					
5837	90	180	31	5,295.30	968.11	-968.08	-8.01	4.39	-4.19	-1.29					
5869	90	180	32	5,295.30	1,000.11	-1,000.08	-7.81	2.10	-1.87	-0.94					

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name		Target Direction		Slot		N / S		E / W		Hole Size		Calculation by		Date	
Eley 3025 1-1H		180.35		Coordinate										2/12/13	
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 >>				
5900	89	180	31	5,295.68	1,031.10	-1,031.07	-7.62	2.76	-2.58	0.97					
5932	88	180	32	5,296.57	1,063.09	-1,063.06	-7.57	3.19	-3.13	0.62					
5963	87	181	31	5,297.87	1,094.06	-1,094.03	-7.75	2.97	-1.94	2.26					
5995	87	181	32	5,299.44	1,126.02	-1,125.99	-8.31	1.97	-0.63	1.88					
6026	88	181	31	5,300.87	1,156.98	-1,156.95	-8.83	2.77	1.61	-2.26					
6058	88	181	32	5,302.01	1,188.96	-1,188.93	-9.16	2.19	2.19	0.00					
6089	87	181	31	5,303.31	1,219.93	-1,219.90	-9.65	4.91	-4.52	1.94					
6121	87	181	32	5,305.07	1,251.88	-1,251.84	-10.18	1.59	-0.31	-1.56					
6152	87	181	31	5,306.72	1,282.84	-1,282.80	-10.55	0.97	0.97	0.00					
6184	88	181	32	5,308.20	1,314.80	-1,314.76	-11.03	1.82	1.56	0.94					
6215	88	181	31	5,309.50	1,345.77	-1,345.73	-11.43	1.61	0.00	-1.61					
6247	88	180	32	5,310.75	1,377.75	-1,377.70	-11.63	1.33	0.94	-0.94					
6278	89	181	31	5,311.73	1,408.73	-1,408.69	-11.85	2.33	1.94	1.29					
6310	90	181	32	5,312.29	1,440.73	-1,440.68	-12.15	3.14	3.13	-0.31					
6341	90	180	31	5,312.45	1,471.73	-1,471.68	-12.23	2.60	1.29	-2.26					
6373	91	180	32	5,312.34	1,503.73	-1,503.68	-12.12	1.87	1.87	0.00					
6404	91	180	31	5,311.85	1,534.72	-1,534.68	-12.07	2.66	2.58	0.65					
6436	90	180	32	5,311.43	1,566.72	-1,566.67	-12.01	3.49	-3.44	-0.62					
6467	89	180	31	5,311.59	1,597.72	-1,597.67	-12.01	3.47	-3.23	1.29					
6498	90	180	31	5,311.86	1,628.71	-1,628.67	-12.07	2.04	1.94	-0.65					
6530	91	180	32	5,311.75	1,660.71	-1,660.67	-12.09	2.52	2.50	0.31					
6561	91	180	31	5,311.27	1,691.71	-1,691.67	-12.23	2.16	1.94	0.97					
6593	90	180	32	5,310.82	1,723.71	-1,723.66	-12.37	2.67	-2.50	-0.94					
6624	90	181	31	5,310.79	1,754.71	-1,754.66	-12.56	2.77	-2.26	1.61					
6656	90	180	32	5,310.96	1,786.70	-1,786.66	-12.78	1.25	0.00	-1.25					
6687	90	180	31	5,311.07	1,817.70	-1,817.66	-12.84	0.91	0.65	-0.65					
6719	90	180	32	5,311.07	1,849.70	-1,849.66	-12.75	1.13	0.62	-0.94					
6750	91	179	31	5,310.88	1,880.70	-1,880.66	-12.35	3.32	1.61	-2.90					
6782	91	178	32	5,310.35	1,912.67	-1,912.64	-11.43	3.56	2.19	-2.81					
6813	92	178	31	5,309.48	1,943.64	-1,943.61	-10.43	2.52	1.94	1.61					
6845	91	178	32	5,308.62	1,975.61	-1,975.58	-9.53	2.19	-2.19	0.00					
6876	91	179	31	5,308.16	2,006.59	-2,006.57	-8.77	2.60	-2.26	1.29					
6908	90	180	32	5,308.10	2,038.58	-2,038.57	-8.38	4.00	-2.50	3.13					
6939	90	180	31	5,308.21	2,069.58	-2,069.57	-8.22	0.91	0.65	-0.65					
6971	90	180	32	5,308.18	2,101.58	-2,101.57	-8.05	1.13	0.94	0.63					
7002	91	179	31	5,307.91	2,132.57	-2,132.56	-7.76	2.97	1.94	-2.26					
7034	92	179	32	5,307.24	2,164.56	-2,164.55	-7.28	2.52	2.50	0.31					
7065	91	180	31	5,306.56	2,195.55	-2,195.54	-6.98	2.77	-2.26	1.61					
7097	90	180	32	5,306.37	2,227.54	-2,227.54	-6.84	3.45	-3.44	0.31					
7128	90	180	31	5,306.42	2,258.54	-2,258.54	-6.76	0.72	0.65	0.32					
7160	91	180	32	5,306.25	2,290.54	-2,290.54	-6.62	2.10	1.87	-0.94					
7191	90	180	31	5,306.01	2,321.54	-2,321.54	-6.46	1.16	-0.97	0.65					
7222	89	180	31	5,306.09	2,352.53	-2,352.54	-6.27	3.06	-2.90	-0.97					
7254	89	180	32	5,306.51	2,384.53	-2,384.54	-6.22	2.67	-0.94	2.50					
7285	89	180	31	5,306.92	2,415.53	-2,415.53	-6.22	2.16	0.97	-1.94					
7317	90	180	32	5,307.03	2,447.53	-2,447.53	-6.13	2.67	2.50	0.94					
7348	90	181	31	5,306.95	2,478.52	-2,478.53	-6.30	1.96	-0.32	1.94					
7380	90	181	32	5,307.00	2,510.52	-2,510.53	-6.74	1.77	-1.25	1.25					
7411	89	182	31	5,307.36	2,541.52	-2,541.52	-7.45	2.97	-2.26	1.94					
7443	89	182	32	5,307.91	2,573.51	-2,573.50	-8.31	0.31	0.00	-0.31					
7474	90	182	31	5,308.21	2,604.50	-2,604.49	-9.12	2.90	2.90	0.00					
7506	91	182	32	5,308.07	2,636.49	-2,636.48	-10.02	2.28	2.19	0.62					
7537	90	182	31	5,307.91	2,667.47	-2,667.46	-11.12	2.97	-1.94	2.26					
7569	90	183	32	5,308.02	2,699.44	-2,699.41	-12.74	3.37	-1.25	3.13					
7600	89	184	31	5,308.54	2,730.39	-2,730.35	-14.61	3.56	-3.55	0.32					
7632	89	183	32	5,309.26	2,762.34	-2,762.29	-16.51	1.40	1.25	-0.62					
7695	90	183	63	5,310.14	2,825.26	-2,825.19	-19.97	1.06	0.95	-0.48					

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name		Target Direction		Slot	N / S	E / W	Hole Size	Calculation by		Date
Eley 3025 1-1H		180.35		Coordinate						2/12/13
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 >>
7726	90	183	31	5,310.30	2,856.23	-2,856.15	-21.48	1.82	1.29	-1.29
7757	90	183	31	5,310.28	2,887.20	-2,887.12	-22.91	1.02	0.97	0.32
7789	91	182	32	5,309.97	2,919.18	-2,919.09	-24.14	3.81	2.19	-3.13
7820	90	182	31	5,309.70	2,950.17	-2,950.08	-25.09	2.60	-2.58	0.32
7852	89	182	32	5,309.92	2,982.16	-2,982.06	-26.15	3.19	-3.13	0.62
7883	89	182	31	5,310.46	3,013.14	-3,013.03	-27.23	0.65	-0.65	0.00
7915	89	182	32	5,310.99	3,045.13	-3,045.01	-28.35	0.94	0.94	0.00
7946	89	181	31	5,311.37	3,076.11	-3,075.99	-29.24	2.35	0.65	-2.26
7978	90	181	32	5,311.60	3,108.11	-3,107.98	-29.97	1.25	1.25	0.00
8009	91	181	31	5,311.51	3,139.10	-3,138.98	-30.67	2.26	2.26	0.00
8041	91	181	32	5,311.21	3,171.10	-3,170.97	-31.42	0.44	0.31	0.31
8072	90	182	31	5,311.10	3,202.09	-3,201.95	-32.32	3.04	-2.58	1.61
8104	89	182	32	5,311.41	3,234.08	-3,233.93	-33.41	2.21	-2.19	0.31
8135	89	182	31	5,311.81	3,265.06	-3,264.91	-34.57	1.37	0.97	0.97
8167	89	182	32	5,312.15	3,297.04	-3,296.88	-35.74	1.25	0.00	-1.25
8198	90	182	31	5,312.44	3,328.03	-3,327.87	-36.77	0.32	0.32	0.00
8230	90	182	32	5,312.64	3,360.01	-3,359.84	-37.91	1.33	0.94	0.94
8261	90	182	31	5,312.83	3,391.00	-3,390.83	-38.94	2.16	-0.97	-1.94
8292	90	182	31	5,313.07	3,421.99	-3,421.81	-39.78	0.46	0.32	-0.32
8324	89	181	32	5,313.41	3,453.99	-3,453.80	-40.59	1.29	-1.25	-0.31
8355	89	181	31	5,313.87	3,484.98	-3,484.79	-41.16	2.28	-0.32	-2.26
8387	90	181	32	5,314.15	3,516.98	-3,516.79	-41.52	2.52	2.50	-0.31
8418	90	180	31	5,314.09	3,547.98	-3,547.79	-41.63	2.89	1.29	-2.58
8450	91	180	32	5,313.76	3,579.97	-3,579.79	-41.57	1.98	1.88	0.62
8481	92	179	31	5,313.00	3,610.96	-3,610.78	-41.41	3.76	3.23	-1.94
8513	90	179	32	5,312.61	3,642.95	-3,642.77	-40.94	7.66	-7.50	-1.56
8544	89	180	31	5,313.12	3,673.94	-3,673.76	-40.53	3.68	-2.90	2.26
8576	89	180	32	5,313.68	3,705.93	-3,705.76	-40.36	2.58	2.50	0.63
8607	93	181	31	5,313.17	3,736.92	-3,736.75	-40.44	10.25	10.00	2.26
8639	92	180	32	5,311.80	3,768.90	-3,768.72	-40.61	1.29	-0.31	-1.25
8670	93	180	31	5,310.31	3,799.86	-3,799.68	-40.67	2.26	2.26	0.00
8702	94	180	32	5,308.47	3,831.80	-3,831.63	-40.55	2.25	1.25	-1.87
8733	93	180	31	5,306.77	3,862.76	-3,862.58	-40.37	2.46	-2.26	0.97
8765	93	180	32	5,305.15	3,894.71	-3,894.54	-40.20	0.88	0.63	-0.63
8796	93	181	31	5,303.47	3,925.67	-3,925.49	-40.22	2.97	0.65	2.90
8828	93	181	32	5,301.88	3,957.63	-3,957.45	-40.59	2.38	-2.19	0.94
8859	93	181	31	5,300.53	3,988.60	-3,988.42	-40.94	0.97	0.00	-0.97
8890	93	180	31	5,299.12	4,019.56	-4,019.39	-41.05	2.04	0.65	-1.94
8922	91	179	32	5,298.17	4,051.54	-4,051.37	-40.68	7.13	-6.25	-3.44
8953	90	179	31	5,297.88	4,082.53	-4,082.36	-40.20	2.16	-0.97	1.94
8985	91	179	32	5,297.51	4,114.53	-4,114.36	-39.83	1.59	1.56	-0.31
9016	91	179	31	5,297.05	4,145.52	-4,145.35	-39.40	0.72	-0.32	-0.65
9048	91	180	32	5,296.47	4,177.51	-4,177.35	-39.21	3.78	1.56	3.44
9079	91	180	31	5,295.98	4,208.50	-4,208.34	-39.37	2.66	-2.58	0.65
9111	89	181	32	5,296.03	4,240.50	-4,240.34	-39.73	4.06	-3.75	1.56
9142	89	181	31	5,296.60	4,271.50	-4,271.33	-40.22	2.26	-2.26	0.00
9174	89	181	32	5,297.36	4,303.49	-4,303.32	-40.80	0.99	0.31	0.94
9205	90	182	31	5,297.84	4,334.47	-4,334.30	-41.67	3.65	2.58	2.58
9237	91	184	32	5,297.70	4,366.44	-4,366.25	-43.34	7.81	4.69	6.25
9268	93	185	31	5,296.62	4,397.33	-4,397.14	-45.77	7.21	6.45	3.23
9300	95	186	32	5,294.53	4,429.14	-4,428.93	-48.78	5.31	4.69	2.50
9350	95	186	50	5,290.61	4,478.76	-4,478.52	-53.82	0.00	0.00	0.00
0	0	0		5,290.61	4,478.76	-4,478.52	-53.82			
0	0	0		5,290.61	4,478.76	-4,478.52	-53.82			
0	0	0		5,290.61	4,478.76	-4,478.52	-53.82			
0	0	0		5,290.61	4,478.76	-4,478.52	-53.82			
0	0	0		5,290.61	4,478.76	-4,478.52	-53.82			

Section 36
29S 25W

Section 31
29S 24W

ELSEY 3025 1-1H



Miss Entry: 5415'
-100.00002 37.470659

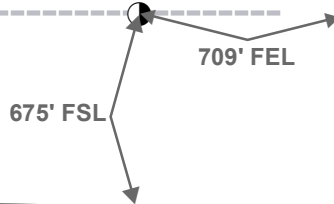
Top Perf: 5520'
-100.00002 37.470435

Section 1
30S 25W

Section 6
30S 24W

Bottom Perf: 8474'
-99.999974 37.462318

BHL: 9350'
-99.999969 37.459935



Section 12
30S 25W

Section 7
30S 24W



Actual Bottom-Hole Location of Elsey 3025 1-1H
Clark County, Kansas

T&R: 30S 25W

Section: 1, 709' FEL & 675' FSL

Long/Lat: -99.999969 37.459935

1 in = 667 ft

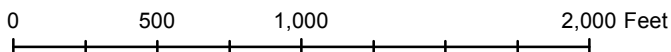


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 2/13/2013

Drawing Name/Number:

Addendum_Elsey_ 1-1H .mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 02/21/013 10:11 am	Frac Disclosure uploaded to FracFocus
Tiffany Golay 02/21/013 10:05 am	TVD= 5,344'
Tiffany Golay 02/05/013 11:15 am	Conductor weight= 106.5 lbs/ft