CORRECTION #1

1161320

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:
☐ Yes ☐ No

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   Date Reached TD   Completion Date or
Recompletion Date   Recompletion Date

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

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 ☐ Yes ☐ No
  (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No
Electric Log Run ☐ Yes ☐ No

List All E. Logs Run:

☐ Log   Formation (Top), Depth and Datum   ☐ Sample

Name	Top	Datum

CASING RECORD   ☐ New ☐ 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
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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 *(Amount and Kind of Material Used)*	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____	_____ _____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Esplund Farms 3023 1-30H
Doc ID	1161320

All Electric Logs Run

Resistivity
Porosity
MudLog
Boresight

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Esplund Farms 3023 1-30H
Doc ID	1161320

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9240-9584	4180 bbls water, 108 bbls acid, 75M lbs sd, 4494 TLTR	
5	8710-9106	4172 bbls water, 108 bbls acid, 75M lbs sd, 8709 TLTR	
5	8220-8628	4164 bbls water, 108 bbls acid, 75M lbs sd, 13368 TLTR	
5	7860-8170	4266 bbls water, 108 bbls acid, 75M lbs sd, 17770 TLTR	
5	7402-7804	4151 bbls water, 108 bbls acid, 75M lbs sd, 22272 TLTR	
5	6968-7340	4144 bbls water, 108 bbls acid, 75M lbs sd, 26428 TLTR	
5	6530-6902	4138 bbls water, 108 bbls acid, 75M lbs sd, 34942 TLTR	
5	6108-6452	4131 bbls water, 108 bbls acid, 75M lbs sd, 34942 TLTR	
5	5634-6050	4124 bbls water, 108 bbls acid, 75M lbs sd, 39025 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Esplund Farms 3023 1-30H
Doc ID	1161320

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	120	Pro Oilfield Services 8 sack grout	16	none
Surface	12.25	9.63	36	1006	Halliburton Extendacem and Swiftcem Systems	475	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermeidate	8.75	7	26	5816	Halliburton Econocem and Halcem Systems	300	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production	6.12	4.5	11.6	9700	Halliburton Econocem System	480	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite

Summary of Changes

Lease Name and Number: Esplund Farms 3023 1-30H

API/Permit #: 15-025-21552-01-00

Doc ID: 1161320

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	03/12/2013	10/04/2013
Fluid Mngmt - Chloride Content	33000	10000
Fluid Mngmt - Fluid Volume	5040	420
Fluid Mngmt - Lease Name	Pit #1	Unknown
Fluid Mngmt - Operator Name	LoJo Disposal	Weinet Disposal LLC
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1105564	../../kcc/detail/operatorEditDetail.cfm?docID=1161320

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1105564

Form ACO-1
June 2009
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
☐ Conv. to GSW

☐ Plug Back: _____ Plug Back Total Depth
☐ Commingled Permit #: _____
☐ Dual Completion Permit #: _____
☐ SWD Permit #: _____
☐ ENHR Permit #: _____
☐ GSW Permit #: _____

_____ _____ _____
Spud Date or   Date Reached TD   Completion Date or
Recompletion Date   Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

☐ **Letter of Confidentiality Received**
   Date: _____
☐ **Confidential Release Date:** _____
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West   County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☐ Yes ☐ No		☐ Log Formation (Top), Depth and Datum ☐ Sample	
(Attach Additional Sheets)		Name Top Datum	
Samples Sent to Geological Survey ☐ Yes ☐ No			
Cores Taken ☐ Yes ☐ No			
Electric Log Run ☐ Yes ☐ No			
Geologist Report / Mud Logs ☐ Yes ☐ No			
List All E. Logs Run:			

CASING RECORD   ☐ New ☐ 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
____ Perforate ____ Protect Casing				
____ Plug Back TD ____ Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?   ☐ Yes ☐ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?   ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?   ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____
Estimated Production Per 24 Hours Oil ___ Bbls. Gas ___ Mcf Water ___ Bbls. Gas-Oil Ratio ___ Gravity ___	

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	PRODUCTION INTERVAL: Top ___ Bottom ___

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: _____   Set At: _____   Packer At: _____

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Esplund Farms 3023 1-30H
Doc ID	1105564

All Electric Logs Run

Resistivity
Porosity
MudLog
Boresight

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Esplund Farms 3023 1-30H
Doc ID	1105564

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9240-9584	4180 bbls water, 108 bbls acid, 75M lbs sd, 4494 TLTR	
5	8710-9106	4172 bbls water, 108 bbls acid, 75M lbs sd, 8709 TLTR	
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5	5634-6050	4124 bbls water, 108 bbls acid, 75M lbs sd, 39025 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Esplund Farms 3023 1-30H
Doc ID	1105564

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	120	Pro Oilfield Services 8 sack grout	16	none
Surface	12.25	9.63	36	1006	Halliburton Extendacem and Swiftcem Systems	475	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermeidate	8.75	7	26	5816	Halliburton Econocem and Halcem Systems	300	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production	6.12	4.5	11.6	9700	Halliburton Econocem System	480	.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

December 21, 2012

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

Re: ACO1
    API 15-025-21552-01-00
    Esplund Farms 3023 1-30H
    NE/4 Sec.30-30S-23W
    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

DIRECTIONAL SURVEY CALCULATION
MINIMUM CURVATURE METHOD

Well Name Esplund Farms 30	Target Direction 179.34	Slot Coordinate	N / S	E / W	Hole Size	Calculation by		Date 2/27/13
Job Number 0	Type of Survey	Tie-in Point				Directional Co.		

Meaured 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 >>		
275	1	154	275	274.99	1.73	-1.72	0.85	0.29	0.29	55.93
500	1	154	225	499.97	4.21	-4.19	2.06	0.09	-0.09	0.00
750	1	154	250	749.96	6.77	-6.73	3.31	0.04	0.04	0.00
1006	1	154	256	1,005.94	9.79	-9.74	4.79	0.04	0.04	0.00
1168	0	154	162	1,167.93	11.33	-11.26	5.54	0.25	-0.25	0.00
1625	0	334	457	1,624.92	12.04	-11.98	5.89	0.13	-0.04	39.39
2081	0	157	456	2,080.92	12.06	-11.99	5.86	0.09	0.00	-38.86
2538	1	298	457	2,537.92	11.85	-11.80	4.41	0.15	0.07	30.85
2994	0	295	456	2,993.91	10.57	-10.55	1.92	0.07	-0.07	-0.68
3450	0	250	456	3,449.91	10.64	-10.64	0.08	0.05	0.02	-9.87
3907	0	255	457	3,906.90	11.44	-11.47	-2.58	0.02	0.02	1.18
4363	0	350	456	4,362.89	10.66	-10.71	-4.33	0.11	-0.02	20.81
4424	2	168	61	4,423.88	11.55	-11.60	-4.14	3.77	2.79	-297.54
4454	4	172	30	4,453.84	12.97	-13.02	-3.91	5.04	5.00	13.33
4485	5	173	31	4,484.75	15.31	-15.35	-3.63	5.49	5.48	3.55
4515	7	177	30	4,514.59	18.46	-18.50	-3.37	5.80	5.67	11.67
4546	9	179	31	4,545.30	22.64	-22.68	-3.24	5.58	5.48	7.74
4576	10	181	30	4,574.90	27.54	-27.58	-3.26	5.40	5.33	5.33
4606	12	180	30	4,604.34	33.29	-33.33	-3.32	5.68	5.67	-1.67
4637	14	180	31	4,634.56	40.21	-40.25	-3.32	6.47	6.45	-2.26
4667	16	178	30	4,663.53	47.97	-48.01	-3.17	7.45	7.33	-5.00
4698	19	179	31	4,693.10	57.29	-57.33	-2.99	9.11	9.03	3.87
4728	21	181	30	4,721.27	67.60	-67.64	-3.00	8.14	8.00	4.33
4759	23	181	31	4,750.00	79.23	-79.27	-3.18	4.85	4.84	0.97
4789	24	180	30	4,777.53	91.14	-91.19	-3.28	4.21	4.00	-3.33
4820	26	179	31	4,805.68	104.12	-104.16	-3.20	4.93	4.84	-2.26
4850	27	178	30	4,832.55	117.46	-117.50	-2.91	6.18	6.00	-3.33
4881	30	179	31	4,859.79	132.25	-132.29	-2.57	7.82	7.74	2.26
4911	32	179	30	4,885.56	147.61	-147.64	-2.31	7.34	7.33	0.33
4941	34	179	30	4,910.78	163.86	-163.89	-2.09	6.01	6.00	0.67
4972	35	180	31	4,936.32	181.42	-181.45	-1.94	5.21	5.16	1.29
5002	38	180	30	4,960.47	199.22	-199.25	-1.87	7.34	7.33	0.67
5033	39	180	31	4,984.78	218.45	-218.49	-1.91	5.54	5.48	1.29
5063	41	180	30	5,007.76	237.73	-237.77	-1.98	5.35	5.33	-0.67
5094	43	180	31	5,030.85	258.41	-258.45	-1.97	6.79	6.77	-0.65
5124	45	179	30	5,052.39	279.29	-279.32	-1.81	8.16	8.00	-2.33
5155	48	179	31	5,073.73	301.77	-301.81	-1.37	7.87	7.74	-1.94
5185	50	178	30	5,093.55	324.29	-324.32	-0.72	6.46	6.33	-1.67
5216	51	178	31	5,113.37	348.11	-348.14	0.07	4.19	4.19	0.00
5246	51	178	30	5,132.25	371.42	-371.44	0.84	0.67	0.67	0.00
5276	51	178	30	5,151.13	394.73	-394.74	1.61	0.67	-0.67	0.00
5307	50	178	31	5,170.81	418.68	-418.68	2.49	2.18	-1.94	-1.29
5337	50	178	30	5,190.07	441.67	-441.66	3.45	1.74	-1.67	-0.67
5367	49	177	30	5,209.57	464.44	-464.42	4.57	2.78	-2.33	-2.00
5398	49	177	31	5,229.89	487.84	-487.80	5.83	0.32	-0.32	0.00
5428	51	178	30	5,249.09	510.87	-510.83	6.79	8.77	8.00	4.67
5459	55	180	31	5,267.64	535.71	-535.66	7.17	12.63	11.94	5.16
5489	59	180	30	5,284.04	560.82	-560.77	7.11	11.75	11.67	1.67
5520	62	181	31	5,299.38	587.75	-587.71	6.87	11.30	11.29	0.65
5550	65	181	30	5,312.76	614.59	-614.55	6.61	9.34	9.33	-0.33
5581	67	181	31	5,325.39	642.89	-642.86	6.34	6.78	6.77	0.32
5611	70	181	30	5,336.44	670.77	-670.75	6.02	9.34	9.33	0.33
5642	74	180	31	5,346.19	700.18	-700.16	5.85	12.13	11.94	-2.26
5672	76	180	30	5,353.98	729.15	-729.13	5.87	9.67	9.67	-0.33
5702	79	180	30	5,360.30	758.47	-758.46	5.92	9.67	9.67	0.00
5733	82	179	31	5,365.36	789.06	-789.04	6.14	8.60	8.39	-1.94
5763	85	179	30	5,368.70	818.86	-818.84	6.55	11.35	11.33	-0.67

DIRECTIONAL SURVEY CALCULATION
MINIMUM CURVATURE METHOD

Well Name	Target Direction	Slot	N / S	E / W	Hole Size	Calculation by	Date
Esplund Farms 30	179.34	Coordinate					2/27/13
Job Number	Type of Survey	Tie-in Point				Directional Co.	
0							

Meaured 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 >>		
5782	87	179	19	5,369.96	837.82	-837.80	6.83	9.49	9.47	0.53
5871	90	179	89	5,372.60	926.78	-926.74	8.15	2.70	2.70	-0.11
5903	90	180	32	5,372.85	958.77	-958.74	8.54	1.29	0.31	1.25
5934	90	180	31	5,373.07	989.77	-989.74	8.82	0.00	0.00	0.00
5966	90	179	32	5,373.32	1,021.77	-1,021.73	9.18	0.99	-0.31	-0.94
5997	90	179	31	5,373.59	1,052.77	-1,052.73	9.58	0.32	0.00	0.32
6029	90	179	32	5,373.87	1,084.77	-1,084.73	9.97	0.00	0.00	0.00
6060	90	179	31	5,374.09	1,115.77	-1,115.72	10.43	1.16	0.65	-0.97
6092	90	179	32	5,374.23	1,147.77	-1,147.72	10.94	0.70	0.31	0.62
6123	90	179	31	5,374.25	1,178.77	-1,178.71	11.42	1.16	0.97	-0.65
6155	90	180	32	5,374.23	1,210.77	-1,210.71	11.82	1.90	-0.31	1.87
6186	90	179	31	5,374.12	1,241.77	-1,241.71	12.14	1.82	1.29	-1.29
6218	90	179	32	5,373.95	1,273.77	-1,273.71	12.53	0.88	-0.63	0.63
6250	90	179	32	5,373.81	1,305.77	-1,305.70	12.87	0.31	0.31	0.00
6281	90	180	31	5,373.65	1,336.77	-1,336.70	13.00	2.26	0.00	2.26
6313	91	181	32	5,373.40	1,368.76	-1,368.70	12.83	1.56	0.94	1.25
6344	91	181	31	5,373.05	1,399.75	-1,399.70	12.51	0.72	0.32	0.65
6376	91	181	32	5,372.63	1,431.74	-1,431.69	12.06	0.70	0.31	0.63
6407	91	181	31	5,372.17	1,462.72	-1,462.68	11.47	1.33	0.32	1.29
6439	90	181	32	5,371.83	1,494.70	-1,494.68	10.88	2.44	-1.88	-1.56
6470	89	181	31	5,371.94	1,525.69	-1,525.67	10.37	3.37	-3.23	0.97
6502	89	181	32	5,372.36	1,557.67	-1,557.66	9.70	0.70	-0.31	0.63
6533	89	181	31	5,372.76	1,588.65	-1,588.65	9.16	1.96	0.32	-1.94
6565	89	180	32	5,373.18	1,620.65	-1,620.65	8.90	1.59	-0.31	-1.56
6596	89	181	31	5,373.62	1,651.64	-1,651.65	8.72	0.97	0.00	0.97
6628	90	179	32	5,373.98	1,683.63	-1,683.64	8.80	4.17	0.94	-4.06
6659	90	179	31	5,374.22	1,714.63	-1,714.64	9.39	1.96	0.32	-1.94
6691	90	178	32	5,374.39	1,746.63	-1,746.62	10.26	1.13	0.63	-0.94
6722	90	178	31	5,374.58	1,777.62	-1,777.61	11.21	1.02	-0.97	-0.32
6754	90	178	32	5,374.83	1,809.61	-1,809.59	12.38	1.90	0.31	-1.87
6785	90	178	31	5,375.05	1,840.59	-1,840.56	13.68	0.00	0.00	0.00
6816	89	178	31	5,375.32	1,871.58	-1,871.53	14.87	1.44	-0.65	1.29
6848	89	178	32	5,375.65	1,903.57	-1,903.51	16.07	0.94	0.00	-0.94
6879	90	178	31	5,375.90	1,934.56	-1,934.48	17.31	0.97	0.97	0.00
6911	90	178	32	5,376.09	1,966.54	-1,966.46	18.60	0.31	-0.31	0.00
6942	90	177	31	5,376.25	1,997.52	-1,997.43	19.97	1.74	0.65	-1.61
6974	90	177	32	5,376.31	2,029.50	-2,029.39	21.59	0.88	0.63	-0.62
7005	90	177	31	5,376.20	2,060.47	-2,060.34	23.24	1.33	1.29	-0.32
7037	91	177	32	5,375.89	2,092.44	-2,092.29	24.97	0.94	0.94	0.00
7068	91	177	31	5,375.41	2,123.41	-2,123.25	26.62	1.33	1.29	0.32
7100	92	177	32	5,374.60	2,155.38	-2,155.20	28.21	2.38	2.19	0.94
7131	92	178	31	5,373.49	2,186.34	-2,186.15	29.56	2.07	1.61	1.29
7163	93	178	32	5,372.04	2,218.30	-2,218.09	30.68	2.65	1.88	1.88
7194	92	179	31	5,370.71	2,249.27	-2,249.06	31.33	4.34	-2.90	3.23
7226	91	180	32	5,370.01	2,281.26	-2,281.05	31.44	5.63	-4.69	3.13
7257	90	180	31	5,369.77	2,312.26	-2,312.05	31.39	1.33	-0.32	-1.29
7289	90	180	32	5,369.60	2,344.25	-2,344.05	31.36	1.13	-0.63	0.94
7320	90	180	31	5,369.68	2,375.25	-2,375.05	31.33	2.46	-2.26	-0.97
7352	89	180	32	5,369.99	2,407.25	-2,407.04	31.47	0.99	-0.31	-0.94
7383	90	179	31	5,370.21	2,438.25	-2,438.04	31.77	1.61	1.29	-0.97
7415	90	179	32	5,370.35	2,470.25	-2,470.04	32.22	0.70	-0.31	-0.63
7446	90	179	31	5,370.43	2,501.25	-2,501.03	32.73	1.02	0.97	-0.32
7478	90	179	32	5,370.40	2,533.25	-2,533.03	33.23	0.70	0.31	0.62
7509	89	179	31	5,370.70	2,564.24	-2,564.03	33.64	4.21	-4.19	0.32
7541	88	179	32	5,371.48	2,596.23	-2,596.01	34.03	1.25	-1.25	0.00
7572	89	179	31	5,372.32	2,627.22	-2,627.00	34.41	0.32	0.32	0.00
7604	89	179	32	5,373.04	2,659.21	-2,658.99	34.85	1.40	1.25	-0.63

DIRECTIONAL SURVEY CALCULATION
MINIMUM CURVATURE METHOD

Well Name	Target Direction	Slot	N / S	E / W	Hole Size	Calculation by		Date
Esplund Farms 30	179.34	Coordinate						2/27/13
Job Number	Type of Survey	Tie-in Point				Directional Co.		
0								

Meaured Depth	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate N + / S -	Total Coordinate E + / W -	Dogleg Severity	Build Up °/100 ft	Walk/ °/100 ft
0	0	0	0	0.00	0.00			<< TIE-IN POINT >>		
7635	89	179	31	5,373.59	2,690.21	-2,689.98	35.34	0.65	0.65	0.00
7667	90	179	32	5,373.92	2,722.21	-2,721.97	35.82	1.90	1.88	0.31
7698	90	179	31	5,374.00	2,753.21	-2,752.97	36.30	1.16	0.97	-0.65
7730	91	179	32	5,373.81	2,785.20	-2,784.97	36.81	2.28	2.19	0.62
7761	91	179	31	5,373.40	2,816.20	-2,815.96	37.21	0.46	0.32	0.32
7807	90	180	46	5,373.28	2,862.20	-2,861.96	37.69	2.86	-2.83	0.43
7856	89	179	49	5,373.92	2,911.20	-2,910.95	38.38	1.59	-1.02	-1.22
7902	89	178	46	5,374.84	2,957.18	-2,956.93	39.46	1.27	-0.65	-1.09
7950	89	178	48	5,376.02	3,005.16	-3,004.89	40.84	0.47	-0.42	-0.21
7996	89	178	46	5,377.02	3,051.14	-3,050.86	42.17	1.11	1.09	0.22
8045	89	178	49	5,377.88	3,100.13	-3,099.83	43.75	1.02	0.00	-1.02
8091	90	179	46	5,378.48	3,146.11	-3,145.80	45.07	2.24	1.09	1.96
8139	92	180	48	5,378.02	3,194.11	-3,193.79	45.78	4.61	4.37	1.46
8185	91	179	46	5,377.01	3,240.10	-3,239.78	46.47	2.15	-1.52	-1.52
8233	91	179	48	5,376.09	3,288.08	-3,287.76	47.56	0.93	0.83	-0.42
8279	92	179	46	5,374.89	3,334.06	-3,333.73	48.72	0.90	0.87	-0.22
8328	92	178	49	5,373.22	3,383.03	-3,382.68	50.09	1.10	1.02	-0.41
8374	92	179	46	5,371.38	3,428.99	-3,428.62	51.37	0.61	0.43	0.43
8422	93	178	48	5,369.32	3,476.94	-3,476.56	52.75	0.66	0.21	-0.63
8468	93	178	46	5,367.20	3,522.88	-3,522.49	54.19	0.65	0.65	0.00
8517	93	178	49	5,364.63	3,571.80	-3,571.39	55.86	1.02	0.82	-0.61
8563	92	179	46	5,362.43	3,617.74	-3,617.32	57.06	3.26	-1.96	2.61
8611	91	180	48	5,361.17	3,665.72	-3,665.30	57.52	3.64	-3.33	1.46
8657	89	180	46	5,361.17	3,711.71	-3,711.30	57.52	3.17	-3.04	0.87
8706	89	180	49	5,361.81	3,760.71	-3,760.30	57.44	0.46	-0.20	-0.41
8752	90	180	46	5,362.29	3,806.70	-3,806.29	57.56	1.09	0.87	-0.65
8800	90	180	48	5,362.58	3,854.70	-3,854.29	57.89	0.47	0.21	-0.42
8846	90	179	46	5,362.62	3,900.70	-3,900.29	58.37	1.17	1.09	-0.43
8895	90	179	49	5,362.50	3,949.70	-3,949.28	59.01	0.29	-0.20	-0.20
8941	90	179	46	5,362.38	3,995.70	-3,995.28	59.70	0.31	0.22	-0.22
8989	91	179	48	5,362.08	4,043.70	-4,043.27	60.45	0.63	0.62	0.00
9035	91	179	46	5,361.44	4,089.69	-4,089.26	61.21	1.32	1.30	-0.22
9084	91	179	49	5,360.41	4,138.68	-4,138.24	61.98	0.58	0.41	0.41
9130	92	179	46	5,359.29	4,184.67	-4,184.22	62.67	0.49	0.43	-0.22
9178	92	179	48	5,357.99	4,232.65	-4,232.20	63.42	0.21	0.21	0.00
9224	92	179	46	5,356.59	4,278.63	-4,278.17	64.18	0.69	0.65	-0.22
9273	91	180	49	5,355.18	4,327.61	-4,327.15	64.61	2.28	-1.02	2.04
9319	92	180	46	5,353.97	4,373.59	-4,373.13	64.61	0.43	0.43	0.00
9367	91	181	48	5,353.09	4,421.57	-4,421.12	64.11	3.39	-2.29	2.50
9413	90	182	46	5,353.05	4,467.54	-4,467.11	62.98	2.14	-1.96	0.87
9462	89	182	49	5,353.52	4,516.49	-4,516.08	61.57	0.65	-0.61	0.20
9508	88	182	46	5,354.61	4,562.44	-4,562.05	60.09	2.90	-2.83	0.65
9556	88	182	48	5,356.28	4,610.36	-4,609.99	58.41	0.00	0.00	0.00
9602	88	182	46	5,357.77	4,656.28	-4,655.94	56.81	0.65	0.65	0.00
9647	88	182	45	5,359.18	4,701.21	-4,700.89	55.24	0.44	-0.44	0.00
9700	88	182	53	5,360.94	4,754.13	-4,753.83	53.39	0.00	0.00	0.00
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			

DIRECTIONAL SURVEY CALCULATION
MINIMUM CURVATURE METHOD

Well Name	Target Direction	Slot	N / S	E / W	Hole Size	Calculation by		Date
Esplund Farms 30	179.34	Coordinate						2/27/13
Job Number	Type of Survey	Tie-in Point				Directional Co.		
0								

Meaured Depth	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate N + / S -	Total Coordinate E + / W -	Dogleg Severity	Build Up °/100 ft	Walk/ °/100 ft
0	0	0	0	0.00	0.00			<< TIE-IN POINT >>		
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			
0	0	0		5,360.94	4,754.13	-4,753.83	53.39			

PRO
OILFIELD SERVICES, LLC.

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 :	3147
Delivery Date :	11/20/2012
Office :	12/1/1901

Ordered By :
Lease/Well :   **ESPLUND FARMS 3023 1-30H**
Rig Name/Number : LARIAT 41
AFE Number :
Site Contact :
:
:
:

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	ESPLUND FARMS 3023 1-30H	$24,570.00	$0.00	$24,570.00	11/17/2012 11/17/2012	$24,570.00
120	DRILLED 30" CONDUCTOR HOLE	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
120	20" CONDUCTOR PIPE (.250 WALL)	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
75	16" CONDUCTOR PIPE (.250 WALL)	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	WELDING SERVICES FOR PIPE & LIDS	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
16	CEMENT 10 SACK GROUT	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	8' HAY FEEDER	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
1	PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE	$0.00	$0.00	$0.00	11/17/2012 11/17/2012	
	Sub Total:	$24,570.00	$0.00			$24,570.00

_____
Print Name

_____
Signature

11/20/2012 12:33:31 PM

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2966783	Quote #:	Sales Order #: 900046305
Customer: SANDRIDGE ENERGY INC EBUSINESS		**Customer Rep:** ????, Quincy	
Well Name: Esplund Farms 3023	**Well #:** 1-30H		**API/UWI #:** 15-025-21552
Field:	**City (SAP):** MINNEOLA	**County/Parish:** Clark	**State:** Kansas
Legal Description: Section 30 Township 30S Range 23W			
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	**Srvc Supervisor:** WOODS, CORY	**MBU ID Emp #:** 420903	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
NASH, JONATHAN Clark	21.5	524600	STEVENS, DAVID Ray	21.5	497094	TORRES, CLEMENTE	21.5	344233
WOODS, CORY C	21.5	420903						

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
TOTAL			*Total is the sum of each column separately*					

Job

		Job Times			
Formation Name			**Date**	**Time**	**Time Zone**
Formation Depth (MD) Top	Bottom	**Called Out**	03 - Dec - 2012	06:30	CST
Form Type	BHST	**On Location**	03 - Dec - 2012	12:30	CST
Job depth MD 1000. ft	**Job Depth TVD**	**Job Started**	04 - Dec - 2012	08:04	CST
Water Depth	**Wk Ht Above Floor**	**Job Completed**	04 - Dec - 2012	09:15	CST
Perforation Depth (MD) From	To	**Departed Loc**	04 - Dec - 2012	12:00	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				80.	1000.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	1000.		
Preset Conductor	Unknown		20.	19.124	94.			.	80.		

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	9.625	1	HWE
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	QL
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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10	bbl	8.33	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	325	sacks	12.4	2.11	11.57		11.57
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.571 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	150	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		74.5	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes				
Displacement	74.5	Shut In: Instant		Lost Returns	NO	Cement Slurry		154	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	74.5	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	238.5

Rates							
Circulating	9	Mixing	6	Displacement	5	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

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	**Ship To #:** 2966783	**Quote #:**	**Sales Order #:** 900063735

Customer: SANDRIDGE ENERGY INC EBUSINESS	**Customer Rep:** Solis, Lu

Well Name: Esplund Farms 3023	**Well #:** 1-30H	**API/UWI #:** 15-025-21552

Field:	**City (SAP):** MINNEOLA	**County/Parish:** Clark	**State:** Kansas

Legal Description: Section 30 Township 30S Range 23W

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	**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 J	10.5	442123	HEIDT, JAMES Nicholas	10.5	517102	JOHNSON, MATTHEW Warren	10.5	525955

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
12/11/2012	10.5	1.5						
TOTAL			Total is the sum of each column separately					

Job

Formation Name				
Formation Depth (MD)	Top		Bottom	
Form Type		BHST		
Job depth MD	5816. ft	Job Depth TVD	5816. ft	
Water Depth		Wk Ht Above Floor	5. ft	
Perforation Depth (MD)	From		To	

Job Times

	Date	Time	Time Zone
Called Out	11 - Dec - 2012	07:00	CST
On Location	11 - Dec - 2012	12:30	CST
Job Started	11 - Dec - 2012	19:03	CST
Job Completed	11 - Dec - 2012	20:22	CST
Departed Loc	11 - Dec - 2012	22:30	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				1000.	5800.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5800.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	1000.		

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			
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 ft3/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	7.24		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	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, 50 LB BAG (100064232)							
	5.076 Gal	FRESH WATER							
4	Displacement		219.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes			
Displacement	219 BBL	Shut In: Instant		Lost Returns	0	Cement Slurry	75 BBL	Pad	
Top Of Cement	3129 FT	5 Min		Cement Returns	0	Actual Displacement	219 BBL	Treatment	
Frac Gradient		15 Min		Spacers	30 BBL	Load and Breakdown		Total Job	

Rates							
Circulating	5	Mixing	6	Displacement	6	Avg. Job	5
Cement Left In Pipe	Amount	84 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 #:** 2966783	**Quote #:**	**Sales Order #:** 900079959

Customer: SANDRIDGE ENERGY INC EBUSINESS	**Customer Rep:** ????, Quincy

Well Name: Esplund Farms 3023	**Well #:** 1-30H	**API/UWI #:** 15-025-21552

Field:	**City (SAP):** MINNEOLA	**County/Parish:** Clark	**State:** Kansas

Legal Description: Section 30 Township 30S Range 23W

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:** 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 #
JOURNAGEN, MICHAEL	5.5	524224	MENDOZA, VICTOR	5.5	442596	RAMIREZ, JORGE	5.5	498481
RODRIGUEZ, EDGAR Alejandro	5.5	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
12/18/2012	2	1	12/29/2012	3.5	2.5			
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type		BHST	
Job depth MD	9702. ft	Job Depth TVD	9700. ft
Water Depth		Wk Ht Above Floor	7. ft
Perforation Depth (MD)	From		To

Job Times

	Date	Time	Time Zone
Called Out	18 - Dec - 2012	14:30	CST
On Location	18 - Dec - 2012	20:00	CST
Job Started	18 - Dec - 2012	23:59	CST
Job Completed	19 - Dec - 2012	01:28	CST
Departed Loc	19 - Dec - 2012	03:20	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
6.125" Open Hole				6.125				5800.	9742.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	5400.	9742.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5800.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	5400.		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Spacer		30.00	bbl	8.5	.0	.0	.0	
2	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	480.0	sacks	13.6	1.53	7.24		7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Displacement		118.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes				
Displacement	118	Shut In: Instant		Lost Returns		Cement Slurry	131	Pad	
Top Of Cement	3910	5 Min		Cement Returns		Actual Displacement	118	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	279

Rates				
Circulating		Mixing		Displacement		Avg. Job	
Cement Left In Pipe	Amount	86.65 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

Summit Version: 7.3.0045   Wednesday, December 19, 2012 02:48:00

Section 19
30S 23W

Section 20
30S 23W

JON 3023 1-19 SWD
✳

ESPLUND FARMS 3023 1-30H
✳

Miss Entry: 5596'
-99.868686 37.409536
- - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
Top Perf: 5634'
-99.868685 37.409378

Section 30
30S 23W

Section 29
30S 23W

Bottom Perf: -9240
-99.868304 37.399555
- - - - - - - - - - - - - - - -

BHL: 9700'
-99.868317 37.398248
- - - - - - - - - ◑ - - - - - →
375' FSL   **416' FEL**
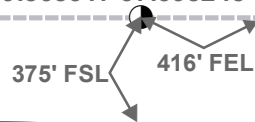
Section 31
30S 23W

Section 32
30S 23W

<table>
<tr><td rowspan="2">SANDRIDGE
THE POWER OF US™

◑ Actual BH Location

✳ SandRidge Wells

- - - Perf

☐ Sections</td><td>**Actual Bottom-Hole Location of Esplund Farms 3023 1-30H**
Clark County, Kansas
T&R: 30S 23W
Section: 30, 416'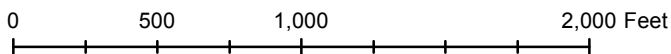 FEL & 375' FSL
Long/Lat: -99.868317 37.398248

1 in = 667 ft

0   500   1,000   2,000 Feet
N↑</td><td>Draftsman:
Aaron Birk</td><td>Draft Date: 3/5/2013</td></tr>
<tr><td colspan="2">Drawing Name/Number:
Addendum_Esplund_Farms_1-30H.mxd

Coordinate System:
NAD 1927 State Plane
Kansas South FIPS: 1502</td></tr>
</table>

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	1/20/2013
State:	KS
County:	Clark
API Number:	15-025-21552
Operator Name:	SandRidge Expl. & Prod., LLC
Well Name and Number:	Esplund Farms 3023 1-30H
Longitude:	-99.8683
Latitude:	37.4112
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	5,361
Total Water Volume (gal)*:	1,641,445

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Diverting Agent, Propping Agent	Water (Including Mix Water Supplied by Client)*	-		94.86795%	
			Crystalline silica	14808-60-7	91.06482%	4.67349%	
			Hydrochloric acid	7647-01-0	7.78645%	0.39960%	
			Methanol	67-56-1	0.37981%	0.01949%	
			Distillates (petroleum), hydrotreated light	64742-47-8	0.26338%	0.01352%	
			Alcohol, C11 linear, ethoxylated	34398-01-1	0.25296%	0.01298%	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.25296%	0.01298%	
			Ammonium chloride	12125-02-9	0.12228%	0.00628%	
			Glutaraldehyde	111-30-8	0.06408%	0.00329%	
			Sodium erythorbate	6381-77-7	0.05937%	0.00305%	
			Aliphatic acids	Proprietary	0.03142%	0.00161%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.03142%	0.00161%	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.02916%	0.00150%	
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.02916%	0.00150%	
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.02916%	0.00150%	
			Trisodium ortho phosphate	7601-54-9	0.02601%	0.00133%	
			Ethane-1,2-diol	107-21-1	0.02601%	0.00133%	
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.01144%	0.00059%	
			Prop-2-yn-1-ol	107-19-7	0.01047%	0.00054%	
			Ethanol	64-17-5	0.00137%	0.00007%	
			Organic polymer	Proprietary	0.00062%	0.00003%	
			Aliphatic ester	Proprietary	0.00006%	< 0.00001%	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Remarks

Tiffany Golay 02/27/013 09:17 am	TVD= 5,361'
Tiffany Golay 02/27/013 09:17 am	Conductor weight= 94 lbs/ft