



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1103545
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: _____



1103545

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> _____
---	--

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Unruh 2629 2-17H
Doc ID	1103545

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8920-9244	5493 bbls water, 108 bbls acid, 30 bio-balls, 102M lbs sd, 5493 TLTR	
5	8486-8822	5252 bbls water, 108 bbls acid, 30 bio-balls, 100M lbs sd, 10745 TLTR	
5	8102-8412	5518 bbls water, 108 bbls acid, 101M lbs sd, 16263 TLTR	
5	7670-7993	5257 bbls water, 108 bbls acid, 30 bio-balls, 98M lbs sd, 21660 TLTR	
5	7276-7596	5213 bbls water, 108 bbls acid, 100M lbs sd, 27011 TLTR	
5	6832-7188	5240 bbls water, 108 bbls acid, 30 bio-balls, 90M lbs sd, 32460 TLTR	
5	6417-6740	5584 bbls water, 108 bbls acid, 30 bio-balls, 101M lbs sd, 38044 TLTR	
5	6040-6322	4301 bbls water, 108 bbls acid, 30 bio-balls, 94M lbs sd, 42422 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Unruh 2629 2-17H
Doc ID	1103545

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5638-5964	4472 bbls water, 141 bbls acid, 30 bio-balls, 99M lbs sd, 46938 TLTR	
5	5179-5570	4667 bbls water, 141 bbls acid, 30 bio-balls, 101M lbs sd, 51633 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Unruh 2629 2-17H
Doc ID	1103545

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	Pro Oilfield Services 10 Sack Grout	14	None
Surface	12.25	9.63	36	1578	Halliburton Extendacem and Swiftcem Systems	570	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	5425	Halliburton Econocem and Halcem Systems	300	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production Liner	6.12	4.5	11.6	9370	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

December 03, 2012

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

Re: ACO1
API 15-069-20413-01-00
Unruh 2629 2-17H
SE/4 Sec.17-26S-29W
Gray 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 : 3117
Delivery Date : 11/14/2012
Office : 12/1/1901

Ordered By :
Lease/Well : UNRUH 2629 2-17H
Rig Name/Number : LARIATE 20
AFE Number :
Site Contact :
:
:
:

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	UNRUH 2629 2-17H	\$25,850.00	\$0.00	\$25,850.00	11/9/2012 11/9/2012	\$25,850.00
130	DRILLED 30" CONDUCTOR HOLE	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
130	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
75	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
14	CEMENT 10 SACK GROUT	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	8' HAY FEEDER	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
1	PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE	\$0.00	\$0.00	\$0.00	11/9/2012 11/9/2012	
Sub Total:		\$25,850.00	\$0.00			\$25,850.00

Print Name

Signature

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2963488	Quote #:	Sales Order #: 900009409
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Garza, Louise	
Well Name: Unruh 2629	Well #: 2-17H	API/UWI #:	
Field:	City (SAP): MONTEZUMA	County/Parish: Gray	State: Kansas
Contractor: Lariat	Rig/Platform Name/Num: 20		
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	13.5	442123	HEIDT, JAMES Nicholas	13.5	517102	MARTINEZ, FERNANDO	11	520482
TREJO, NOE	11	456243						

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
11/17/12	13.5	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
					16 - Nov - 2012	22:30	CST
Form Type			BHST	On Location	17 - Nov - 2012	02:30	CST
Job depth MD	1582. ft		Job Depth TVD	1582. ft	Job Started	17 - Nov - 2012	09:55
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	17 - Nov - 2012	11:12
Perforation Depth (MD)	From		To		Departed Loc	17 - Nov - 2012	13:00

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					1550.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		1550.		

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)	390.0	sacks	12.4	2.11	11.64		11.64
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.637 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	180.0	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)		118.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	118 BBL	Shut In: Instant		Lost Returns	0	Cement Slurry	185 BBL	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	38 BBL	Actual Displacement	118 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 					

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2963488	Quote #:	Sales Order #: 900025426
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Holmquist, John	
Well Name: Unruh 2629	Well #: 2-17H	API/UWI #:	
Field:	City (SAP): MONTEZUMA	County/Parish: Gray	State: Kansas
Legal Description: Section 17 Township 26S Range 29W			
Contractor: Lariat		Rig/Platform Name/Num: 20	
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 #
HEIDT, JAMES Nicholas	8	517102	ORNELAS, KARIM Gabriel	8	506950	RODRIGUEZ, EDGAR Alejandro	8	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
11/24/2012	1	1	11/25/2012	7	2.5			
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	Job depth MD	5432. ft	BHST	Job Depth TVD	5447. ft	On Location	24 - Nov - 2012
Water Depth	Wk Ht Above Floor	6. ft	Job Started	25 - Nov - 2012	03:52	CST	
Perforation Depth (MD)	From	To	Job Completed	25 - Nov - 2012	05:15	CST	
			Departed Loc	25 - Nov - 2012	07:00	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
8.75" Intermediate Open Hole				8.75				1550.	5458.		
7" Intermediate Casing	Unknow n		7.	6.276	26.	LTC	P-110	.	5458.		
9.625" Surface Casing	Unknow n		9.625	8.921	36.	LTC	J-55	.	1550.		

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	HES	1
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	7	HES	1
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	7.24		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	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	Water Based Mud	204.00	bbl	9.78	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	204	Shut In: Instant		Lost Returns		Cement Slurry	76	Pad	
Top Of Cement	2714.16	5 Min		Cement Returns		Actual Displacement	204	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	310
Rates									
Circulating	5	Mixing	5	Displacement	6	Avg. Job	5.5		
Cement Left In Pipe	Amount	84.44 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					

RECEIVED

DEC 10 2012

HALLIBURTON

REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2963488	Quote #:	Sales Order #: 900047811
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Holmquist, John	
Well Name: Unruh 2629	Well #: 2-17H	API/UWI #:	
Field:	City (SAP): MONTEZUMA	County/Parish: Gray	State: Kansas
Legal Description: Section 17 Township 26S Range 29W			
Contractor: LARIAT	Rig/Platform Name/Num: 20		
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 #
JOURNAGAN, MICHAEL	6.5	524224	REYES GANDARA, JUAN Armando	6.5	440529	RODRIGUEZ, EDGAR Alejandro	6.5	442125
VEGA, JORGE	6.5	529975						

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
12/3/2012	6.5	3						
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	03 - Dec - 2012	04:00	CST
Form Type			BHST	Job Started	03 - Dec - 2012	00:00	CST
Job depth MD	9494.5 ft		Job Depth TVD	9370. ft	Job Completed	03 - Dec - 2012	02:00
Water Depth			Wk Ht Above Floor	6. ft	Departed Loc	03 - Dec - 2012	00:00
Perforation Depth (MD)	From		To				

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				5458.	9364.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	5055.	9364.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5458.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	5055.		

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	Rig Supplied Gel Spacer		30.00	bbl	8.5	.0	.0	.0	
2	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	500.0	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		112.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	112	Shut In: Instant		Lost Returns		Cement Slurry	136	Pad	
Top Of Cement	3409	5 Min		Cement Returns		Actual Displacement	112	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	278
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	92.22 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
Unruh 2629 1-17H		1.45		Coordinate						2/26/13
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 >>		
0	0	0		0.00	0.00	0.00	0.00			
1621	2	350	1621	1,620.81	20.81	20.91	-3.61	0.09	0.09	21.60
1908	2	18	287	1,907.71	28.34	28.42	-3.01	0.26	0.03	-115.75
2386	1	9	478	2,385.61	38.04	38.06	-0.41	0.17	-0.17	-1.80
2864	1	8	478	2,863.56	44.24	44.25	0.53	0.02	-0.02	-0.36
3340	1	354	476	3,339.52	50.84	50.85	0.55	0.06	0.04	72.82
3529	1	351	189	3,528.50	53.61	53.62	0.18	0.06	-0.05	-2.01
3622	1	339	93	3,621.49	54.85	54.87	-0.16	0.18	0.00	-12.69
3716	1	348	94	3,715.48	56.17	56.20	-0.55	0.18	0.11	9.89
3810	1	351	94	3,809.47	57.61	57.65	-0.82	0.05	0.00	2.87
3905	1	347	95	3,904.45	59.15	59.20	-1.13	0.12	0.11	-3.47
4000	1	336	95	3,999.44	60.86	60.92	-1.70	0.31	0.21	-11.58
4063	2	331	63	4,062.42	62.21	62.29	-2.40	0.67	0.63	-9.21
4095	3	349	32	4,094.39	63.44	63.53	-2.78	5.19	4.69	57.50
4127	6	357	32	4,126.30	65.81	65.91	-3.04	7.70	7.50	24.06
4158	8	359	31	4,157.09	69.34	69.44	-3.16	6.83	6.77	7.74
4189	10	359	31	4,187.74	74.00	74.10	-3.22	6.77	6.77	0.32
4221	12	359	32	4,219.18	79.94	80.05	-3.32	6.25	6.25	-0.62
4253	14	1	32	4,250.40	86.94	87.05	-3.32	6.08	5.94	#####
4284	16	3	31	4,280.39	94.78	94.89	-3.08	6.90	6.77	5.16
4315	18	3	31	4,310.08	103.71	103.81	-2.61	6.83	6.77	2.90
4347	19	2	32	4,340.41	113.89	113.98	-2.16	4.98	4.69	-5.31
4378	21	0	31	4,369.52	124.54	124.63	-2.00	5.46	5.16	-5.16
4411	23	360	33	4,400.14	136.84	136.94	-2.03	6.08	6.06	1,089.70
4443	24	1	32	4,429.48	149.62	149.72	-1.93	4.42	4.06	#####
4475	26	1	32	4,458.44	163.22	163.32	-1.73	5.97	5.94	-1.56
4508	29	1	33	4,487.74	178.41	178.50	-1.51	7.91	7.88	1.52
4539	31	2	31	4,514.68	193.74	193.83	-1.11	6.23	6.13	2.26
4571	33	3	32	4,541.89	210.58	210.65	-0.43	7.37	7.19	3.13
4603	35	2	32	4,568.40	228.49	228.56	0.30	7.36	7.19	-2.81
4634	38	2	31	4,593.35	246.88	246.94	0.84	7.78	7.74	-1.29
4666	40	0	32	4,618.36	266.85	266.90	1.11	6.82	6.25	-4.38
4699	42	2	33	4,643.30	288.45	288.50	1.48	8.57	7.88	5.15
4730	44	3	31	4,665.86	309.70	309.75	2.28	7.26	7.10	2.26
4762	46	3	32	4,688.39	332.42	332.45	3.33	5.35	5.31	0.94
4794	46	3	32	4,710.59	355.46	355.46	4.50	0.55	-0.31	0.63
4826	46	3	32	4,732.88	378.41	378.38	5.72	0.96	-0.94	0.31
4858	45	3	32	4,755.31	401.22	401.17	6.93	1.27	-1.25	-0.31
4890	45	2	32	4,777.86	423.92	423.86	7.98	1.67	-0.62	-2.19
4921	45	3	31	4,799.69	445.94	445.85	8.92	1.19	0.97	0.97
4953	47	3	32	4,821.77	469.08	468.98	9.95	5.94	5.94	-0.31
4984	51	3	31	4,842.13	492.45	492.33	10.99	10.65	10.65	0.32
5016	53	2	32	4,861.85	517.65	517.51	11.94	8.72	8.44	-2.81
5047	56	1	31	4,879.72	542.98	542.83	12.62	9.71	9.68	-0.97
5080	59	1	33	4,897.28	570.91	570.76	13.18	9.48	9.39	-1.52
5112	62	0	32	4,912.86	598.85	598.71	13.47	9.21	9.06	-1.88
5144	66	0	32	4,926.89	627.61	627.46	13.59	10.63	10.63	-0.31
5175	69	1	31	4,938.72	656.25	656.10	13.97	12.38	11.94	3.55
5207	72	1	32	4,949.30	686.45	686.30	14.61	8.15	8.12	-0.63
5239	74	2	32	4,958.65	717.05	716.89	15.33	6.43	6.25	1.56
5271	78	1	32	4,966.50	748.06	747.90	16.11	11.29	11.25	-0.94
5303	81	2	32	4,972.39	779.51	779.33	17.02	11.45	11.25	2.19
5335	83	2	32	4,976.68	811.22	811.02	18.04	6.94	6.88	-0.94
5358	85	2	23	4,979.10	834.09	833.88	18.86	5.66	4.78	3.04
5389	87	2	31	4,981.34	865.00	864.77	20.13	8.72	8.71	-0.32
5421	90	3	32	4,982.12	896.98	896.72	21.61	9.02	8.75	2.19
5517	92	4	96	4,980.62	992.92	992.55	27.05	1.95	1.88	0.52

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name		Target Direction		Slot	N / S	E / W	Hole Size	Calculation by		Date
Unruh 2629 1-17H		1.45		Coordinate						2/26/13
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 >>		
5549	92	4	32	4,979.44	1,024.87	1,024.46	29.11	2.25	1.88	1.25
5580	91	3	31	4,978.42	1,055.83	1,055.38	31.08	3.61	-3.23	-1.61
5613	91	3	33	4,977.73	1,088.81	1,088.33	32.90	1.94	-1.21	-1.52
5644	91	2	31	4,977.10	1,119.80	1,119.29	34.33	1.88	0.97	-1.61
5676	90	3	32	4,976.85	1,151.79	1,151.25	35.89	5.87	-5.31	2.50
5708	90	3	32	4,977.08	1,183.77	1,183.20	37.68	0.00	0.00	0.00
5739	90	4	31	4,977.26	1,214.75	1,214.14	39.52	1.33	0.32	1.29
5770	90	4	31	4,977.45	1,245.73	1,245.08	41.49	0.46	-0.32	0.32
5802	90	4	32	4,977.71	1,277.70	1,277.01	43.53	0.44	-0.31	-0.31
5834	89	4	32	4,978.04	1,309.68	1,308.95	45.57	0.70	-0.63	0.31
5866	89	3	32	4,978.60	1,341.65	1,340.88	47.52	2.25	-1.87	-1.25
5898	89	2	32	4,979.32	1,373.63	1,372.83	49.11	2.81	0.00	-2.81
5931	89	2	33	4,980.07	1,406.62	1,405.80	50.26	2.42	0.00	-2.42
5963	89	2	32	4,980.83	1,438.61	1,437.78	51.13	0.44	-0.31	-0.31
5995	89	1	32	4,981.39	1,470.61	1,469.77	51.91	2.58	2.50	-0.63
6027	90	1	32	4,981.69	1,502.61	1,501.76	52.47	1.90	0.31	-1.88
6058	90	0	31	4,981.88	1,533.60	1,532.76	52.76	1.37	0.97	-0.97
6089	90	1	31	4,981.88	1,564.60	1,563.76	53.14	2.33	1.29	1.94
6121	91	1	32	4,981.69	1,596.60	1,595.75	53.78	1.33	0.94	0.94
6152	91	1	31	4,981.31	1,627.60	1,626.74	54.49	1.29	1.29	0.00
6183	91	2	31	4,980.69	1,658.59	1,657.72	55.43	3.32	1.61	2.90
6215	91	1	32	4,979.93	1,690.58	1,689.69	56.41	2.83	-0.31	-2.81
6247	90	0	32	4,979.71	1,722.58	1,721.69	56.86	6.43	-5.62	-3.13
6278	90	360	31	4,979.98	1,753.56	1,752.69	56.88	1.61	0.00	1,159.68
6309	90	360	31	4,980.20	1,784.55	1,783.69	56.80	0.72	0.65	0.32
6341	89	360	32	4,980.45	1,816.54	1,815.69	56.78	0.99	-0.94	0.31
6373	89	360	32	4,980.84	1,848.53	1,847.68	56.78	0.62	-0.63	0.00
6404	89	0	31	4,981.27	1,879.52	1,878.68	56.86	0.97	0.00	#####
6436	89	360	32	4,981.80	1,911.50	1,910.68	56.91	1.56	-0.94	1,123.75
6468	89	360	32	4,982.47	1,943.48	1,942.67	56.86	0.62	-0.63	0.00
6500	88	360	32	4,983.31	1,975.46	1,974.66	56.77	1.29	-1.25	-0.31
6531	89	359	31	4,984.09	2,006.43	2,005.65	56.53	2.28	1.61	-1.61
6563	89	360	32	4,984.76	2,038.41	2,037.64	56.25	1.25	0.00	1.25
6594	89	360	31	4,985.47	2,069.39	2,068.63	56.12	0.72	-0.65	0.32
6626	89	360	32	4,986.19	2,101.37	2,100.62	56.00	0.62	0.63	0.00
6658	89	0	32	4,986.84	2,133.35	2,132.61	56.03	1.59	0.31	#####
6690	90	1	32	4,987.25	2,165.34	2,164.61	56.34	2.69	2.19	1.56
6721	92	3	31	4,986.93	2,196.34	2,195.59	57.26	8.68	6.45	5.81
6753	92	3	32	4,985.92	2,228.31	2,227.54	58.79	1.56	1.25	0.94
6785	91	3	32	4,985.00	2,260.29	2,259.48	60.49	2.38	-2.19	0.94
6817	91	3	32	4,984.36	2,292.27	2,291.43	62.20	1.33	-0.94	-0.94
6850	90	3	33	4,983.96	2,325.26	2,324.38	63.84	1.84	-1.82	-0.30
6881	90	4	31	4,983.85	2,356.24	2,355.33	65.62	3.47	-1.29	3.23
6913	90	5	32	4,983.91	2,388.20	2,387.25	67.97	2.58	-0.63	2.50
6944	90	4	31	4,983.96	2,419.16	2,418.15	70.37	1.16	0.65	-0.97
6976	90	3	32	4,984.04	2,451.13	2,450.09	72.41	4.17	-0.94	-4.06
7007	90	2	31	4,984.23	2,482.13	2,481.06	73.68	4.21	-0.32	-4.19
7039	91	2	32	4,984.06	2,514.13	2,513.05	74.60	4.39	4.38	-0.31
7070	90	2	31	4,983.69	2,545.12	2,544.03	75.49	1.96	-1.94	0.32
7103	90	2	33	4,983.57	2,578.12	2,577.02	76.41	1.36	-1.21	-0.61
7134	90	2	31	4,983.63	2,609.12	2,608.01	77.25	0.72	-0.65	0.32
7166	90	0	32	4,983.63	2,641.12	2,640.00	77.81	3.95	1.25	-3.75
7198	90	0	32	4,983.46	2,673.12	2,672.00	78.03	0.62	0.63	0.00
7230	91	0	32	4,983.21	2,705.11	2,704.00	78.20	0.70	0.31	-0.63
7261	91	1	31	4,982.94	2,736.10	2,735.00	78.45	1.61	0.00	1.61
7293	90	0	32	4,982.71	2,768.10	2,766.99	78.73	1.40	-0.63	-1.25
7325	90	1	32	4,982.57	2,800.09	2,798.99	78.98	0.99	-0.31	0.94

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name		Target Direction	Slot	N / S	E / W	Hole Size	Calculation by	Date			
Unruh 2629 1-17H		1.45	Coordinate					2/26/13			
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 >>			
7357	90	0	32	4,982.49	2,832.09	2,830.99	79.23	0.99	-0.31	-0.94	
7389	90	0	32	4,982.38	2,864.08	2,862.99	79.37	0.70	0.63	-0.31	
7420	91	360	31	4,982.16	2,895.07	2,893.99	79.31	2.04	0.65	1,159.35	
7451	90	360	31	4,982.00	2,926.06	2,924.99	79.20	1.82	-1.29	1.29	
7483	90	0	32	4,981.89	2,958.05	2,956.99	79.29	1.13	0.63	#####	
7515	91	1	32	4,981.66	2,990.04	2,988.99	79.57	1.40	0.63	1.25	
7546	90	1	31	4,981.50	3,021.04	3,019.98	80.05	1.82	-1.29	1.29	
7578	90	1	32	4,981.50	3,053.04	3,051.98	80.56	1.40	-0.62	-1.25	
7610	90	1	32	4,981.53	3,085.04	3,083.97	80.98	0.44	0.31	0.31	
7641	90	1	31	4,981.50	3,116.04	3,114.97	81.52	1.33	0.32	1.29	
7673	91	2	32	4,981.33	3,148.03	3,146.96	82.47	3.37	1.25	3.13	
7705	91	2	32	4,981.03	3,180.03	3,178.93	83.64	0.70	0.31	-0.63	
7736	91	2	31	4,980.51	3,211.02	3,209.91	84.67	2.35	2.26	-0.65	
7768	91	2	32	4,979.87	3,243.02	3,241.89	85.70	0.99	-0.94	0.31	
7800	91	2	32	4,979.31	3,275.01	3,273.86	86.87	1.25	0.00	1.25	
7863	89	1	63	4,979.48	3,338.00	3,336.83	88.80	4.05	-3.65	-1.75	
7895	89	360	32	4,980.23	3,369.99	3,368.82	89.10	4.07	-0.31	1,120.94	
7926	91	1	31	4,980.37	3,400.98	3,399.81	89.27	7.86	7.42	#####	
7959	92	360	33	4,979.45	3,433.96	3,432.80	89.44	4.89	4.24	1,088.48	
7990	92	358	31	4,978.31	3,464.91	3,463.77	88.95	5.32	-1.29	-5.16	
8022	92	358	32	4,977.28	3,496.85	3,495.74	88.03	0.44	-0.31	0.31	
8053	92	359	31	4,976.25	3,527.79	3,526.71	87.19	0.72	0.65	0.32	
8085	92	358	32	4,975.16	3,559.72	3,558.68	86.24	1.29	-0.31	-1.25	
8116	92	358	31	4,974.19	3,590.66	3,589.65	85.30	1.16	-0.65	0.97	
8148	92	359	32	4,973.24	3,622.61	3,621.63	84.54	1.56	0.00	1.56	
8179	92	359	31	4,972.21	3,653.56	3,652.61	83.98	1.33	1.29	0.32	
8211	92	359	32	4,970.95	3,685.51	3,684.58	83.36	1.13	0.94	-0.62	
8243	93	358	32	4,969.58	3,717.43	3,716.53	82.53	1.90	0.31	-1.88	
8275	91	358	32	4,968.52	3,749.36	3,748.50	81.44	3.87	-3.75	-0.94	
8306	91	358	31	4,967.87	3,780.29	3,779.47	80.22	1.16	-0.65	-0.97	
8338	91	358	32	4,967.29	3,812.21	3,811.43	78.91	0.44	-0.31	0.31	
8370	90	358	32	4,967.04	3,844.15	3,843.41	77.74	3.66	-3.44	1.25	
8402	90	358	32	4,967.12	3,876.10	3,875.40	76.70	0.44	-0.31	0.31	
8433	90	358	31	4,967.26	3,907.04	3,906.38	75.68	0.72	-0.32	-0.65	
8465	90	358	32	4,967.34	3,938.99	3,938.36	74.59	0.99	0.94	0.31	
8496	90	359	31	4,967.37	3,969.95	3,969.35	73.80	2.92	-0.32	2.90	
8528	90	360	32	4,967.45	4,001.93	4,001.35	73.52	3.14	-0.31	3.13	
8560	90	360	32	4,967.53	4,033.92	4,033.35	73.47	0.70	0.31	-0.62	
8591	90	360	31	4,967.59	4,064.91	4,064.35	73.41	0.65	0.00	0.65	
8623	90	360	32	4,967.64	4,096.89	4,096.35	73.33	0.94	0.00	-0.94	
8654	90	360	31	4,967.72	4,127.88	4,127.35	73.11	0.72	-0.32	-0.65	
8686	90	359	32	4,967.89	4,159.85	4,159.34	72.72	1.40	-0.63	-1.25	
8718	90	359	32	4,968.14	4,191.82	4,191.34	72.14	0.99	-0.31	-0.94	
8749	91	359	31	4,968.14	4,222.79	4,222.33	71.62	3.61	3.23	1.61	
8781	91	360	32	4,967.64	4,254.77	4,254.33	71.37	2.95	2.50	1.56	
8812	91	0	31	4,966.96	4,285.76	4,285.32	71.37	1.33	-0.32	#####	
8845	91	360	33	4,966.30	4,318.74	4,318.31	71.37	1.25	-0.30	1,089.70	
8876	91	360	31	4,965.79	4,349.72	4,349.31	71.23	1.02	-0.97	-0.32	
8908	91	0	32	4,965.31	4,381.71	4,381.30	71.21	1.59	0.31	#####	
8939	91	1	31	4,964.94	4,412.70	4,412.30	71.61	3.78	-1.29	3.55	
8971	91	2	32	4,964.66	4,444.70	4,444.28	72.53	2.19	0.00	2.19	
9003	90	2	32	4,964.40	4,476.70	4,476.26	73.71	0.70	-0.31	0.63	
9034	91	2	31	4,964.13	4,507.69	4,507.24	74.90	0.65	0.65	0.00	
9066	91	2	32	4,963.80	4,539.69	4,539.21	76.10	0.31	0.00	-0.31	
9097	91	2	31	4,963.45	4,570.68	4,570.19	77.29	0.72	0.32	0.65	
9130	91	2	33	4,962.99	4,603.68	4,603.16	78.44	1.92	0.61	-1.82	
9161	91	2	31	4,962.47	4,634.67	4,634.15	79.36	0.32	0.32	0.00	

Section 8
26S 29W

Section 9
26S 29W

268' FNL 357' FEL

BHL: 9322'

-100.50741 37.794533

Bottom Perf: 8920'
-100.50742 37.793402

Section 17
26S 29W

Section 16
26S 29W

Top Perf: 5179'
-100.50734 37.78317

Miss Entry: 5113'
-100.50734 37.783012

UNRUH 2629 2-17H

TOEWS 2629 2-21H

Section 20
26S 29W

Section 21
26S 29W



Actual Bottom-Hole Location of Unruh 2629 2-17H
Gray County, Kansas

T&R: 26S 29W

Section: 17, 357' FEL & 268' FNL

Long/Lat -100.50741 37.794533

1 in = 833 ft

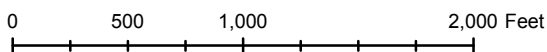


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 3/1/2013

Drawing Name/Number:

Addendum_Unruh_2-17H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 03/04/013 11:30 am	TVD= 4,967'
Tiffany Golay 03/04/013 10:40 am	Frac Disclosure uploaded to FracFocus
Tiffany Golay 02/28/013 08:39 am	Waste Transfer Info: Hauled to Weinett Disposal LLC, Section 1079 Block 43, Lipscomb, TX