



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1197671
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: _____

1197671

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	Toews 2629 4-21H
Doc ID	1197671

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5808-5811	10458 gals 15% NEFE HCL (gelled) 20328 gals 30# liner gel, 7014 gals fresh wtr	5808-5875
5	5872-5875		
5	5980-5982	9576 gals 15% NEFE HCL (gelled) & 15120 gals 30# liner gel, 7140 gals fresh water	5980-6031
5	6009-6011		
5	6029-6031		
5	6065-6067	9492 gals 15% NEFE HCL (gelled) & 16044 gal 30# liner gel. 7056 gals fresh wtr	6065-6081
5	6079-6081		
5	6478-6480	9702 gals NEFE HCL (gelled) & 20188 gals 30# liner gel, 8400 bbls fresh wtr	6478-6570
5	6520-6522		
5	6574-6576		
5	6616-6618	9954 gals 15% NEFE HCL & 19992 GALS 30# LINER GEL, 8400 bbls fresh wtr	6610-6684
5	6666-6668		
5	6682-6684		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Toews 2629 4-21H
Doc ID	1197671

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6748-6750	9500 gals 15% NEFE HCL , 1500 gals 30# linear gel, 8064 bbls Fresh Wtr	6748-6810
5	6790-6792		
5	6808-6810		
5	7450-7475	9450 gals 15% NEFE HCL, 16002 gals 30# linear gel, flushed w/222 bbls fresh water	7450-7475



Toews 2629 4-21H ST01

Nomac 52

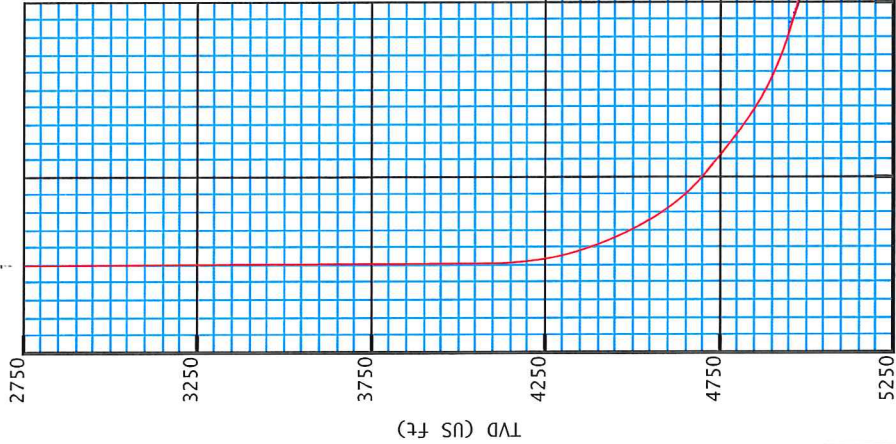
Gray County, KS

X= 1425177.43'

Y= 406729.59'

Plan 1 vs Actual

XB: 2756'
GL: 2737'



VS (US ft) (Bearing: 309.54° Scale: 500USft/in)

Vertical Section View

Plan Data for Toews 2629 4-21H ST01

Dogleg Severity Unit: /100.00ft		Plan Point Information:		Position offsets from Slot centre	
MD (USFt)	Inc (°)	Az (°)	TVD (USFt)	+N/-S (USFt)	+E/-W (USFt)
5253.00	72.98	308.84	4948.83	423.62	-512.16
5283.00	71.29	310.63	4958.04	441.87	-534.11
5293.00	70.95	311.40	4961.27	448.08	-541.25
5303.00	70.96	312.24	4964.54	454.38	-548.30
5313.00	71.36	312.98	4967.77	460.79	-555.26
5323.00	72.05	313.40	4970.91	467.29	-562.18
5497.37	86.00	313.40	5004.02	584.61	-686.26
5697.37	86.00	313.40	5017.97	721.88	-831.23
5767.37	93.00	313.40	5018.58	769.74	-882.06
5800.64	93.00	313.40	5016.84	792.57	-906.20
6153.29	90.10	306.96	5007.29	1019.86	-1175.37
7005.67	90.10	306.96	5005.80	1532.41	-1856.43

Target Set Information:
Name: Toews 2629 4-21H

Name	TVD (USFt)	Northing (USFt)	Easting (USFt)	Lat (°/'/'")	Long (°/'/'")
PBHL	5005.80	408262.00	1423321.00	37°46'15.5"	-100°29'42.9"

Plan Data for Toews 2629 4-21H ST01

Field: Sandridge Energy - Gray Co., KS S MAD 27 US FT
Map Unit: USFT
Projected Coordinate System: NAD27 / Kansas South

Well: Toews 2629 4-21H ST01

Type: Side-Track

File Number:

Plan Folder: P1

Vertical Section: Position offset of origin from Slot centre:

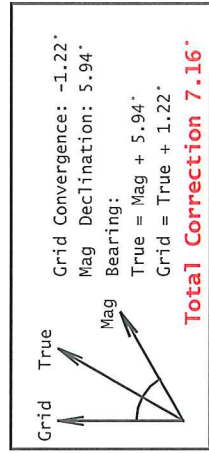
Lat: 37°46'00.73" N

Long: 100°29'19.40" W

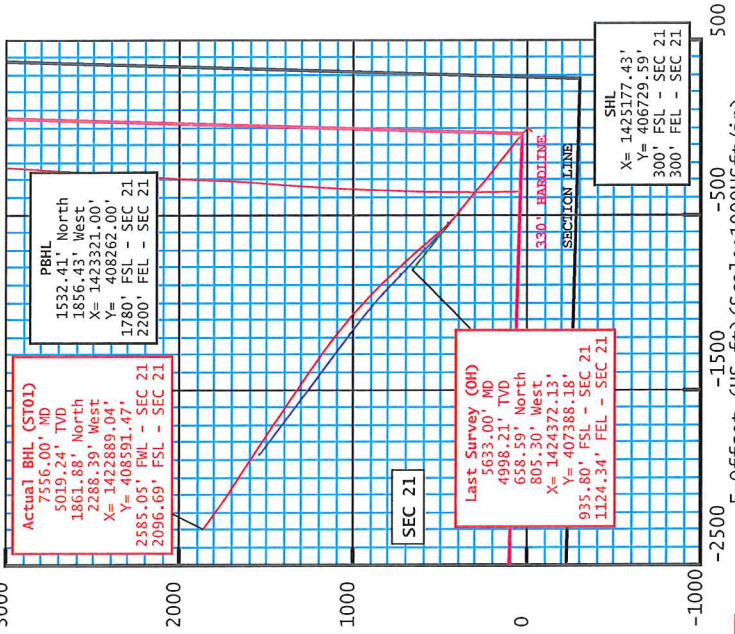
Magnetic Parameters:

Model: Field Strength: Declination: Dip: Date:

IGRF 51892(nT) 5.94° 65.44° 2013-12-16



Vertical Section 309.54° AZM



E. Offset (US ft) (Scale: 1000USft/in)

Plan View

Toews	2629	4-21H	ST01
Toews	2629	1-21H	---
Toews	2629	4-21H	ST01 Actual
Toews	2629	4-21H	Original Hole

Created By: Gary Rhodes Date: 11/01/2013
Weatherford Drilling Services
6525 N. Meridian Ste. #201
Oklahoma City, OK 73116
+1-405-773-1100 Main
+1-405-773-1887 Fax



5D Survey Report

Sandridge Energy

Field Name: Sandridge Energy - Gray Co., KS S NAD 27 US FT
Site Name: Toews 2629 4-21H
Well Name: Toews 2629 4-21H (Original Hole)
Survey: Definitive Survey

06 January 2014



Weatherford®

Toews 2629 4-21H

Field Name
 Sandridge Energy - Gray Co., KS S NAD 27 US FT
Map Units : US ft
Vertical Reference Datum (VRD) : Mean Sea Level
Projected Coordinate System : NAD27 / Kansas South
Comment :

Company Name : Sandridge Energy

Site Name
 Toews 2629 4-21H
Units : US ft
North Reference : Grid
Position
Northing : 406729.59 US ft
Easting : 1425177.43 US ft
Elevation above Mean Sea Level: 2737.00 US ft
Comment :

Convergence Angle : -1.22
Latitude : 37° 46' 0.73"
Longitude : -100° 29' 19.40"

Slot Name
 Toews 2629 4-21H
+N / -S : 0.00 US ft
+E / -W : 0.00 US ft
Slot TVD Reference : Ground Elevation
Elevation above Mean Sea Level : 2737.00 US ft
Comment :

Position (Offsets relative to Site Centre)
Northing : 406729.59 US ft
Easting : 1425177.43 US ft
Latitude : 37° 46' 0.73"
Longitude : -100° 29' 19.40"

Well Name
 Toews 2629 4-21H
Type : Main well
Rig Height Drill Floor : 19.00 US ft
Relative to Mean Sea Level: 2756.00 US ft
Closure Distance : 1040.31 US ft
Vertical Section (Position of Origin Relative to Slot)
+N / -S : 0.00 US ft
+E / -W : 0.00 US ft
Az : 309.54°

UWI :
Comment :
Closure Azimuth : 309.277°

5D Survey Report

Target Set

Name : Toews 2629 4-21H - T1 Number of Targets : 1

Comment :

TargetName:

PBHL

Shape:

Cuboid

Position (Relative to Slot centre)

Latitude : 37°46'15.49"
Longitude : -100°29'42.92"

Northing : 408262.00 US ft
Easting : 1423321.00US ft

+N / -S : 1532.41US ft
+E / -W : -1856.43 US ft
TVD (Drill Floor) : 5005.80 US ft
SS : -2249.80 US ft

Orientation
Dimensions
Azimuth : 0.00°
Length : 0.00 US ft

Inclination : 0.00°
Breadth : 0.00 US ft

Height : 0.00 US ft

Survey Name :Definitive Survey

Date : 16/Dec/2013

Survey Tool :

Comment :

Company :

Magnetic Model

Model Name: IGRF

Date: 16/Dec/2013

Field Strength: 51892.7 nT

Dip: 65.44°

Survey Tool Ranges

Inc Only, 3deg_WFTR

MWD

0.00

1500.00

1500.00

5633.00

1500.00

5633.00

1500.00

5633.00

1500.00

5633.00

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
250.00	0.30	215.19	250.00	-0.53	-0.38	-0.05	0.12	First Wireline Survey
500.00	1.90	215.19	499.94	-4.46	-3.14	-0.41	0.64	
750.00	2.00	215.19	749.80	-11.41	-8.05	-1.06	0.04	
1006.00	1.90	215.19	1005.65	-18.53	-13.07	-1.72	0.04	
1250.00	1.10	215.19	1249.57	-23.75	-16.75	-2.20	0.33	
1500.00	0.52	215.19	1499.54	-26.64	-18.78	-2.47	0.23	
1607.00	0.64	215.19	1606.53	-27.52	-19.41	-2.55	0.11	Last Wireline Survey
1732.00	1.22	25.77	1731.53	-26.89	-19.23	-2.29	1.48	First WFT MWD Survey
1856.00	1.85	41.33	1855.48	-24.20	-17.34	-2.04	0.60	
2043.00	1.68	41.45	2042.39	-19.88	-13.53	-2.22	0.09	
2356.00	1.96	34.97	2355.24	-12.06	-7.42	-1.95	0.11	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	centre, TVD relative to Drill Floor (US ft)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	V.S (US ft)	DLS (%/100 US ft)	Comment	
2793.00	1.26		33.68	2792.06	-1.93	-0.47	-0.86	0.16		
2978.00	0.35		311.60	2977.04	0.13	0.23	-0.09	0.68		
3414.00	0.21		293.10	3413.04	1.33	-1.50	2.00	0.04		
3787.00	0.20		317.58	3786.04	2.08	-2.57	3.30	0.02		
4039.00	0.36		298.66	4038.03	2.79	-3.56	4.52	0.07		
4103.00	0.64		308.11	4102.03	3.10	-4.02	5.07	0.45		
4134.00	2.39		300.96	4133.02	3.54	-4.71	5.88	5.67		
4164.00	4.35		303.10	4162.97	4.49	-6.20	7.63	6.55		
4196.00	6.09		306.53	4194.83	6.16	-8.58	10.54	5.52		
4226.00	7.84		310.25	4224.61	8.43	-11.42	14.17	6.02		
4257.00	10.00		312.42	4255.23	11.61	-15.02	18.97	7.05		
4288.00	12.26		312.98	4285.65	15.67	-19.41	24.95	7.30		
4319.00	14.82		313.06	4315.78	20.62	-24.72	32.19	8.26		
4350.00	17.09		312.68	4345.59	26.42	-30.97	40.70	7.33		
4382.00	18.89		312.31	4376.02	33.09	-38.25	50.57	5.64		
4413.00	20.98		311.07	4405.16	40.12	-46.15	61.13	6.88		
4445.00	22.89		311.06	4434.84	47.97	-55.16	73.08	5.97		
4477.00	24.99		310.97	4464.09	56.49	-64.96	86.06	6.56		
4509.00	26.51		310.87	4492.91	65.60	-75.46	99.96	4.75		
4540.00	28.35		309.68	4520.43	74.82	-86.36	114.23	6.19		
4571.00	30.65		308.77	4547.41	84.47	-98.19	129.50	7.56		
4601.00	32.75		307.97	4572.93	94.25	-110.55	145.26	7.14		
4632.00	35.61		307.64	4598.57	104.93	-124.31	162.66	9.25		
4663.00	38.17		308.32	4623.36	116.38	-138.97	181.26	8.36		
4694.00	41.25		308.75	4647.21	128.72	-154.46	201.06	9.97		
4725.00	44.38		308.85	4669.94	141.92	-170.88	222.13	10.10		
4756.00	48.25		308.86	4691.35	155.98	-188.33	244.54	12.48		
4786.00	50.96		309.02	4710.79	170.34	-206.10	267.38	9.04		
4816.00	51.45		308.94	4729.59	185.05	-224.28	290.76	1.65		
4847.00	51.14		308.55	4748.97	200.19	-243.15	314.95	1.40		
4879.00	51.15		308.75	4769.05	215.75	-262.61	339.87	0.49		
4910.00	51.59		309.11	4788.40	230.97	-281.45	364.09	1.68		
4941.00	52.73		310.05	4807.42	246.57	-300.31	388.57	4.39		
4972.00	54.23		310.36	4825.87	262.65	-319.34	413.48	4.90		
5003.00	55.74		310.41	4843.65	279.10	-338.68	438.86	4.87		
5034.00	58.34		310.51	4860.52	295.98	-358.47	464.87	8.39		
5065.00	61.09		310.39	4876.15	313.34	-378.84	491.63	8.88		
5096.00	63.37		309.90	4890.59	331.03	-399.80	519.06	7.49		
5128.00	65.32		309.85	4904.45	349.52	-421.94	547.90	6.10		
5159.00	67.22		309.75	4916.92	367.68	-443.74	576.28	6.14		
5190.00	69.13		309.38	4928.44	386.01	-465.93	605.05	6.26		

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment	
5222.00	71.20	309.15	4939.30	405.06	-489.23	635.15	6.50		
5253.00	72.98	308.84	4948.83	423.62	-512.16	664.65	5.82		
5285.00	75.08	308.87	4957.64	442.92	-536.11	695.41	6.56		
5316.00	77.09	308.97	4965.09	461.82	-559.52	725.50	6.49		
5348.00	78.60	309.36	4971.83	481.58	-583.78	756.78	4.87		
5380.00	81.16	309.55	4977.45	501.60	-608.10	786.28	8.02		
5412.00	83.48	309.40	4981.73	521.76	-632.57	819.99	7.26		
5443.00	85.59	309.20	4984.68	541.30	-656.45	850.85	6.84		
5475.00	85.87	308.96	4987.06	561.42	-681.22	882.76	1.15		
5507.00	85.73	308.64	4989.41	581.42	-706.10	914.67	1.09		
5538.00	85.87	308.39	4991.68	600.67	-730.29	945.58	0.92		
5570.00	85.73	307.70	4994.02	620.34	-755.42	977.48	2.19		
5601.00	86.29	307.45	4996.18	639.19	-779.93	1008.39	1.98		
5633.00	86.43	307.35	4998.21	658.59	-805.30	1040.30	0.54	Last WFT MWD Survey	

5D Survey Report

Sandridge Energy

Field Name: Sandridge Energy - Gray Co., KS S NAD 27 US FT
Site Name: Toews 2629 4-21H
Well Name: Toews 2629 4-21H ST01
Survey: Definitive Survey

06 January 2014



Toews 2629 4-21H ST01

Field Name
Sandridge Energy - Gray Co., KS S NAD 27 US FT

Company Name : Sandridge Energy

Map Units : US ft
Vertical Reference Datum (VRD) : Mean Sea Level
Projected Coordinate System : NAD27 / Kansas South
Comment :

Site Name
Toews 2629 4-21H

Units : US ft
North Reference : Grid
Position
Northing : 406729.59 US ft
Easting : 1425177.43 US ft
Convergence Angle : -1.22
Latitude : 37° 46' 0.73"
Longitude : -100° 29' 19.40"

Slot Name
Toews 2629 4-21H

Position (Offsets relative to Site Centre)
+N / -S : 0.00 US ft
+E / -W : 0.00 US ft
Northing : 406729.59 US ft
Easting : 1425177.43 US ft
Latitude : 37°46'0.73"
Longitude : -100°29'19.40"

Well Name
Toews 2629 4-21H ST01

Type : Sidetrack
Parent : Toews 2629 4-21H
Rig Height Drill Floor : 19.00 US ft
Relative to Mean Sea Level: 2756.00 US ft
Closure Distance : 2950.14 US ft
Vertical Section (Position of Origin Relative to Slot)
+N / -S : 0.00 US ft
+E / -W : 0.00 US ft
Az : 309.54°

UWI :
Tie Point Method : MD
Tie Point : 5253.00 US ft
Comment :
Closure Azimuth : 309.132°

5D Survey Report

Target Set

Name : Toews 2629 4-21H - T1 Number of Targets : 1

Comment :

TargetNames:
PBHL
Shape:
Cuboid

Position (Relative to Slot centre)
Northing : 408262.00 US ft Latitude : 37°46'15.49"
Easting : 1423321.00US ft Longitude : -100°29'42.92"

Orientation Dimensions
TVD (Drill Floor) : 5005.80 US ft Inclinatio : 0.00°
SS : -2249.80 US ft Azimuth : 0.00°
Length : 0.00 US ft Breadth : 0.00 US ft
Height : 0.00 US ft

Survey Name :Definitive Survey

Date : **Survey Tool :** **Comment :** **Company :**

Magnetic Model **Date:** 31/Oct/2013 **Field Strength:** 50000.0 nT **Declination:** 0.00°

Survey Tool Ranges

Name **Start MD (us ft)** **End MD (us ft)** **Source Survey**
MWD 5253.00 7556.00 WFT MWD Surveys

Well path created using minimum curvature

MD (US ft)	Inc (°)	Az (°)	TVD relative to Drill Floor (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
250.00	0.30	215.19	250.00	-0.53	-0.38	-0.05	0.12	First Wireline Survey
500.00	1.90	215.19	499.94	-4.46	-3.14	-0.41	0.64	
750.00	2.00	215.19	749.80	-11.41	-8.05	-1.06	0.04	
1006.00	1.90	215.19	1005.65	-18.53	-13.07	-1.72	0.04	
1250.00	1.10	215.19	1249.57	-23.75	-16.75	-2.20	0.33	
1500.00	0.52	215.19	1499.54	-26.64	-18.78	-2.47	0.23	Last Wireline Survey
1607.00	0.64	215.19	1606.53	-27.52	-19.41	-2.55	0.11	First WFT MWD Survey
1732.00	1.22	25.77	1731.53	-26.89	-19.23	-2.29	1.48	
1856.00	1.85	41.33	1855.48	-24.20	-17.34	-2.04	0.60	
2043.00	1.68	41.45	2042.39	-19.88	-13.53	-2.22	0.09	
2356.00	1.96	34.97	2355.24	-12.06	-7.42	-1.95	0.11	
2793.00	1.26	33.68	2792.06	-1.93	-0.47	-0.86	0.16	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment	
2978.00	0.35	311.60	2977.04	0.13	0.23	-0.09	0.68		
3414.00	0.21	293.10	3413.04	1.33	-1.50	2.00	0.04		
3787.00	0.20	317.58	3786.04	2.08	-2.57	3.30	0.02		
4039.00	0.36	298.66	4038.03	2.79	-3.56	4.52	0.07		
4103.00	0.64	308.11	4102.03	3.10	-4.02	5.07	0.45		
4134.00	2.39	300.96	4133.02	3.54	-4.71	5.88	5.67		
4164.00	4.35	303.10	4162.97	4.49	-6.20	7.63	6.55		
4196.00	6.09	306.53	4194.83	6.16	-8.58	10.54	5.52		
4226.00	7.84	310.25	4224.61	8.43	-11.42	14.17	6.02		
4257.00	10.00	312.42	4255.23	11.61	-15.02	18.97	7.05		
4288.00	12.26	312.98	4285.65	15.67	-19.41	24.95	7.30		
4319.00	14.82	313.06	4315.78	20.62	-24.72	32.19	8.26		
4350.00	17.09	312.68	4345.59	26.42	-30.97	40.70	7.33		
4382.00	18.89	312.31	4376.02	33.09	-38.25	50.57	5.64		
4413.00	20.98	311.07	4405.16	40.12	-46.15	61.13	6.88		
4445.00	22.89	311.06	4434.84	47.97	-55.16	73.08	5.97		
4477.00	24.99	310.97	4464.09	56.49	-64.96	86.06	6.56		
4509.00	26.51	310.87	4492.91	65.60	-75.46	99.96	4.75		
4540.00	28.35	309.68	4520.43	74.82	-86.36	114.23	6.19		
4571.00	30.65	308.77	4547.41	84.47	-98.19	129.50	7.56		
4601.00	32.75	307.97	4572.93	94.25	-110.55	145.26	7.14		
4632.00	35.61	307.64	4598.57	104.93	-124.31	162.66	9.25		
4663.00	38.17	308.32	4623.36	116.38	-138.97	181.26	8.36		
4694.00	41.25	308.75	4647.21	128.72	-154.46	201.06	9.97		
4725.00	44.38	308.85	4669.94	141.92	-170.88	222.13	10.10		
4756.00	48.25	308.86	4691.35	155.98	-188.33	244.54	12.48		
4786.00	50.96	309.02	4710.79	170.34	-206.10	267.38	9.04		
4816.00	51.45	308.94	4729.59	185.05	-224.28	290.76	1.65		
4847.00	51.14	308.55	4748.97	200.19	-243.15	314.95	1.40		
4879.00	51.15	308.75	4769.05	215.75	-262.61	339.87	0.49		
4910.00	51.59	309.11	4788.40	230.97	-281.45	364.09	1.68		
4941.00	52.73	310.05	4807.42	246.57	-300.31	388.57	4.39		
4972.00	54.23	310.36	4825.87	262.65	-319.34	413.48	4.90		
5003.00	55.74	310.41	4843.65	279.10	-338.68	438.86	4.87		
5034.00	58.34	310.51	4860.52	295.98	-358.47	464.87	8.39		
5065.00	61.09	310.39	4876.15	313.34	-378.84	491.63	8.88		
5096.00	63.37	309.90	4890.59	331.03	-399.80	519.06	7.49		
5128.00	65.32	309.85	4904.45	349.52	-421.94	547.90	6.10		
5159.00	67.22	309.75	4916.92	367.68	-443.74	576.28	6.14		
5190.00	69.13	309.38	4928.44	386.01	-465.93	605.05	6.26		
5222.00	71.20	309.15	4939.30	405.06	-489.23	635.15	6.50		

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (US ft)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment	
5253.00	72.98	308.84	4948.83	423.62	-512.16	664.65	5.82	2	
5289.00	71.87	314.71	4959.71	446.47	-537.74	698.92	15.85		
5321.00	74.22	317.84	4969.05	468.59	-558.89	729.32	11.89		
5352.00	77.74	319.79	4976.56	491.22	-578.69	758.99	12.89		
5384.00	81.44	319.82	4982.34	515.26	-599.00	789.96	11.56		
5416.00	83.77	319.04	4986.46	539.36	-619.63	821.22	7.67		
5447.00	86.23	318.70	4989.16	562.62	-639.95	851.69	8.01		
5479.00	86.36	318.78	4991.23	586.63	-661.00	883.21	0.48		
5510.00	86.50	318.71	4993.16	609.89	-681.41	913.75	0.50		
5542.00	86.64	318.67	4995.07	633.88	-702.49	945.29	0.45		
5573.00	86.85	317.55	4996.83	656.92	-723.16	975.89	3.67		
5604.00	86.85	317.69	4998.53	679.78	-744.02	1006.54	0.45		
5635.00	86.99	317.92	5000.20	702.72	-764.81	1037.17	0.87		
5665.00	86.92	317.64	5001.79	724.90	-784.94	1066.82	0.96		
5696.00	87.06	317.41	5003.42	747.74	-805.85	1097.48	0.87		
5720.00	88.46	316.40	5004.36	765.25	-822.23	1121.26	7.19		
5831.00	91.12	315.33	5004.77	844.90	-899.52	1231.57	2.58		
5895.00	90.14	314.52	5004.06	890.10	-944.83	1295.28	1.99		
5959.00	89.02	313.09	5004.53	934.39	-991.02	1359.10	2.84		
6023.00	87.41	313.15	5006.53	978.12	-1037.71	1422.94	2.52		
6086.00	85.87	310.44	5010.22	1020.03	-1084.59	1485.78	4.94		
6150.00	88.32	308.41	5013.46	1060.61	-1133.96	1549.69	4.97		
6214.00	89.79	308.38	5014.52	1100.36	-1184.11	1613.67	2.30		
6278.00	90.98	306.96	5014.09	1139.46	-1234.76	1677.63	2.89		
6342.00	91.26	306.39	5012.84	1177.68	-1286.08	1741.53	0.99		
6405.00	91.12	305.74	5011.53	1214.76	-1337.00	1804.40	1.06		
6469.00	90.35	304.46	5010.71	1251.56	-1389.35	1868.21	2.33		
6533.00	90.35	304.18	5010.32	1287.64	-1442.21	1931.94	0.44		
6597.00	89.58	304.09	5010.35	1323.56	-1495.18	1995.65	1.21		
6660.00	90.28	304.14	5010.43	1358.89	-1547.34	2058.37	1.11		
6724.00	91.40	304.04	5009.49	1394.76	-1600.34	2122.07	1.76		
6788.00	90.84	304.14	5008.24	1430.62	-1653.33	2185.77	0.89		
6852.00	90.49	304.26	5007.50	1466.59	-1706.26	2249.49	0.58		
6916.00	90.42	304.37	5006.99	1502.67	-1759.12	2313.22	0.20		
6980.00	89.72	303.84	5006.91	1538.56	-1812.11	2376.93	1.37		
7043.00	89.51	303.28	5007.34	1573.38	-1864.61	2439.59	0.95		
7107.00	89.44	303.22	5007.92	1608.47	-1918.13	2503.20	0.14		
7171.00	88.32	302.63	5009.17	1643.25	-1971.84	2566.76	1.98		
7235.00	88.53	302.07	5010.93	1677.48	-2025.88	2630.23	0.93		
7299.00	88.95	303.51	5012.34	1712.13	-2079.67	2693.77	2.34		
7362.00	89.02	305.83	5013.46	1747.96	-2131.47	2756.53	3.68		

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment	
7426.00	88.74	305.97	5014.71	1785.48	-2183.30	2820.39	0.49		
7490.00	87.76	306.03	5016.66	1823.08	-2235.06	2884.24	1.53	Last WFT MWD Survey (ST01)	
7556.00	87.76	306.03	5019.24	1861.88	-2286.39	2950.06	0.00	Proj. to TD	



BASIN SERVICES, LLC
 P O BOX 4268
 ABILENE, TX 79608-4268
 Phone # (325)690-0053
 Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-195-1
 TICKET DATE: 12/11/2013

ELECTRONIC

SANDRIDGE ENERGY
 ***** BILL IN ADP!! *****
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Toews 2629
 WELL#: 4-21H
 RIG #: Nomac 52
 Co/St: GRAY, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
12/8-11/2013 DRILLED 30" CONDUCTOR HOLE			
12/8-11/2013 20" CONDUCTOR PIPE (.250 WALL)			
12/8-11/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
12/8-11/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
12/8-11/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
12/8-11/2013 16" CONDUCTOR PIPE (.250 WALL)			
12/8-11/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
12/8-11/2013 WELDING SERVICES FOR PIPE & LIDS			
12/8-11/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
12/8-11/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
12/8-11/2013 26 YDS OF 10 SACK GROUT			
12/8-11/2013 TAXABLE ITEMS			6,360.00
12/8-11/2013 BID - TAXABLE ITEMS			14,890.00
		Sub Total:	21,250.00
		Tax GRAY COUNTY (7.3 %):	464.28
		TICKET TOTAL:	\$ 21,714.28

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature _____



SandRidge Energy
Toews #2629-21H
Gray County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Toews #2629-21H Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:
50:50 Class A:Poz Blend - 1.4 Yield
2.0% Gel
0.4% FL-160
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
0.8% FL-160
0.2% CD-31

The top plug was then released and displaced with 217 of fresh water. The plug bumped and pressured up to 1600 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy
Toews #2629-21H
Ford County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Toews #2629-21 Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

173 Bbls (520 sacks) of 12.7 ppg Lead slurry:
65:35 Class A:Poz Blend - 1.87 Yield
6.0% Gel
2.0%cc
¼# Floseal

46Bbls (215 sacks) of 15.6 ppg Tail slurry:
Class A - 1.20 Yield
2.0%cc
¼# Floseal

The top plug was then released and displaced with 116 of fresh water. The plug bumped and pressured up to 1300 psi. Pressure was released and the float did not hold. Allied pumped water to bump plug again and floats still did not hold. Allied pump plug back to the float and the well was shut in. Cement did circulate to surface

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestion are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy
Toews #2629 21H
Gray County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Toews #2629 21H Plug Back

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2000 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

30 Bbls (165 sacks) of 17.0 ppg Lead slurry:
Class H 1.01 Yield
.75% CD-31
.2% Defoamer
5% Salt

We then started displacement with 3 Bbls of fresh water, followed with 69 Bbls of mud. The drill pipe was then pulled out of the hole and leaving a 300' cement plug from 5550' - 5250' +/-

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.