Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1195629

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Wanda Ledbetter
Phone: (405) 429-5500
CONTRACTOR: License # 34445
Name: Keen Energy Services LLC
Wellsite Geologist: Beln Wilcox
Purchaser: Atlas (gas) Plains (oil)

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 #:

11/26/2013	12/24/2013	2/26/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21983-01-00
Spot Description:
NE - NW - NE - NE Sec. 17 Twp. 34 S. R. 6 ☐ East ☑ West
250 Feet from ☑ North / ☐ South Line of Section
980 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: Danielle 3406 Well #: 1-17H
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1316 Kelly Bushing: 1336
Total Vertical Depth: 9485 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 670 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: 03/25/2014
☑ **Confidential Release Date:** 03/24/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 03/27/2014

[redacted] 1195629

Operator Name: SandRidge Exploration and Production LLC Lease Name: Danielle 3406 Well #: 1-17H

Sec. 17 Twp. 34 S. R. 6 ☐ East ☑ West County: Harper

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:

Neutron Porosity
Resistivity

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

Name	Top	Datum
Base Heebner	3295	
Lansing	3673	
Cottage Grove	3945	
Oswego Limestone	4418	
Cherokee	4668	
Verdigris	4752	
Mississippi	5278	

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
Conductor	30	20	75	90	grout	10	see report
Surface	12.25	9.625	36	670	Prem Plus C	335	see report
Intermediate	8.75	7	26	5785	Prem 50/50 Poz	390	see report

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
5	5342-9048	CIBP	9085

TUBING RECORD: Size: 4.5 Set At: 9482 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 3/6/2014

Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	106	125	4400		

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)* ☐ Other *(Specify)*

PRODUCTION INTERVAL: 5342-9080

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	Danielle 3406 1-17H
Doc ID	1195629

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	90	grout	10	see report
Surface	12.25	9.625	36	670	Prem Plus C	335	see report
Intermediate	8.75	7	26	5785	Prem 50/50 Poz	390	see report

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/8/2014
Job End Date:	2/11/2014
State:	Kansas
County:	Harper
API Number:	15-077-21983-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Danielle 3406 1-17H
Longitude:	-97.99111000
Latitude:	37.08010000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,660
Total Base Water Volume (gal):	2,808,414
Total Base Non Water Volume:	0

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
Water	Operator	Carrier					
			Water	7732-18-5	100.00000	95.18363	
Sand, White, 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	3.99498	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.50104	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.08842	SmartCare Product
FRW-15A, tote	Baker Hughes	Friction Reducer					
			Contains non-hazardous ingredients that are shown in the non-MSDS section of this report.	NA	100.00000	0.07758	SmartCare Product
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01458	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00486	SmartCare Product
Scaletrol 7208, 330 gl tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00796	
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					
			Citric Acid	77-92-9	60.00000	0.00205	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					

			Methanol	67-56-1	60.00000	0.00036	
			Thiourea Polymer	68527-49-1	30.00000	0.00018	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00018	
			Fatty Acids	Trade Secret	30.00000	0.00018	
			Propargyl Alcohol	107-19-7	10.00000	0.00006	
			Olefin	Trade Secret	5.00000	0.00003	
Alpha 1427	Baker Hughes	Biocide					
			Glutaraldehyde	111-30-8	30.00000	0.00013	SmartCare Product
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00004	SmartCare Product
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00002	SmartCare Product
			Ethanol	64-17-5	5.00000	0.00002	SmartCare Product
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5		0.04086	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.03103	
			Hydrotreated Light Distillate	64742-47-8		0.02327	
			Copolymer	Trade Secret		0.01944	
			Sorbitan Monooleate	1338-43-8		0.00388	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00388	
			Diethylene Glycol	111-46-6		0.00133	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			Calcium Chloride	10043-52-4			
			Potassium Chloride	7447-40-7			
			Polyacrylate	Trade Secret			

* 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%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Wanda Ledbetter

From: Steve Bond <s.bond@kcc.ks.gov>
Sent: Wednesday, January 22, 2014 12:54 PM
To: Wanda Ledbetter
Subject: Completion procedures for the Danielle 3406 # 1-17 and 2-17

Wanda,

The completion procedure as described in the January 20, 2014 email from Kevin Thompson for the above subject two wells are fine with the KCC Oil & Gas Conservation Division.
If you have any further questions, please contact me at this email address or 316-337-6218.

Steve Bond
Production Department Supervisor
Oil & Gas Conservation Division
Kansas Corporation Commission

Wanda Ledbetter

From: Kevin Thompson
Sent: Monday, January 20, 2014 4:17 PM
To: Wanda Ledbetter
Subject: Danielle Wells

The directional drillers used the wrong surface location footages to determine where to TD the Danielle 3406 1-17H and 2-17H wells. As a result, the wells were drilled ~50' too far. The proposed plan to isolate the portion of the wellbore that is out of compliance is to run a frac string and tie into the liner. The wellbore will be pressured up to ensure integrity and then the pressure will be increased to open the P-sleeve at the toe of the liner. A cast iron bridge plug and perforating guns will be pumped downhole. The CIBP will be set below the 1st open hole packer isolating the P-sleeve from the rest of the wellbore. After setting the CIBP, the wellbore will be pressured up to 2000 psi to ensure the CIBP is holding. The wireline will then be pulled out of the hole perforating the 1st stage to be completed. The perforations will all be above the 1st open hole packer so the the toe portion of the well is isolated.

Kevin Thompson
Senior Completions Engineer
Office 2652
SandRidge Energy, Inc.
123 Robert S. Kerr Avenue
Oklahoma City, OK 73102-6404
405-429-6601 office
405-248-8903 mobile

SANDRIDGE
THE POWER OF US™

Proposed

Spud: 11/25/2013

Field	Eastham
County	Harper
State	KS
Well	**DANIELLE 3406 1-17H**
SH Location	SEC 17, TWP 34S, RNG 6W
Elevations	1336' KB; 1313' GL

Wellbore Schematic

15-077-21983
API No.

Original Completion ()	X
Current	
Workover	
Proposed	X

Well Bore Data	MD	TVD
16 jts 9-5/8" 36# J-55 csg @	670'	670'
36# J-55: Cplg OD =10.625" ID=8.921" Drift=8.765" Collapse= 2020 Internal Yield=3520		
Cmt'd w/ 205 sxs Prem Plus C @ 12.4 ppg (Yield=2.01), followed by 130 sxs		
Prem Plus C @ 14.8 ppg (Yield=1.32)		

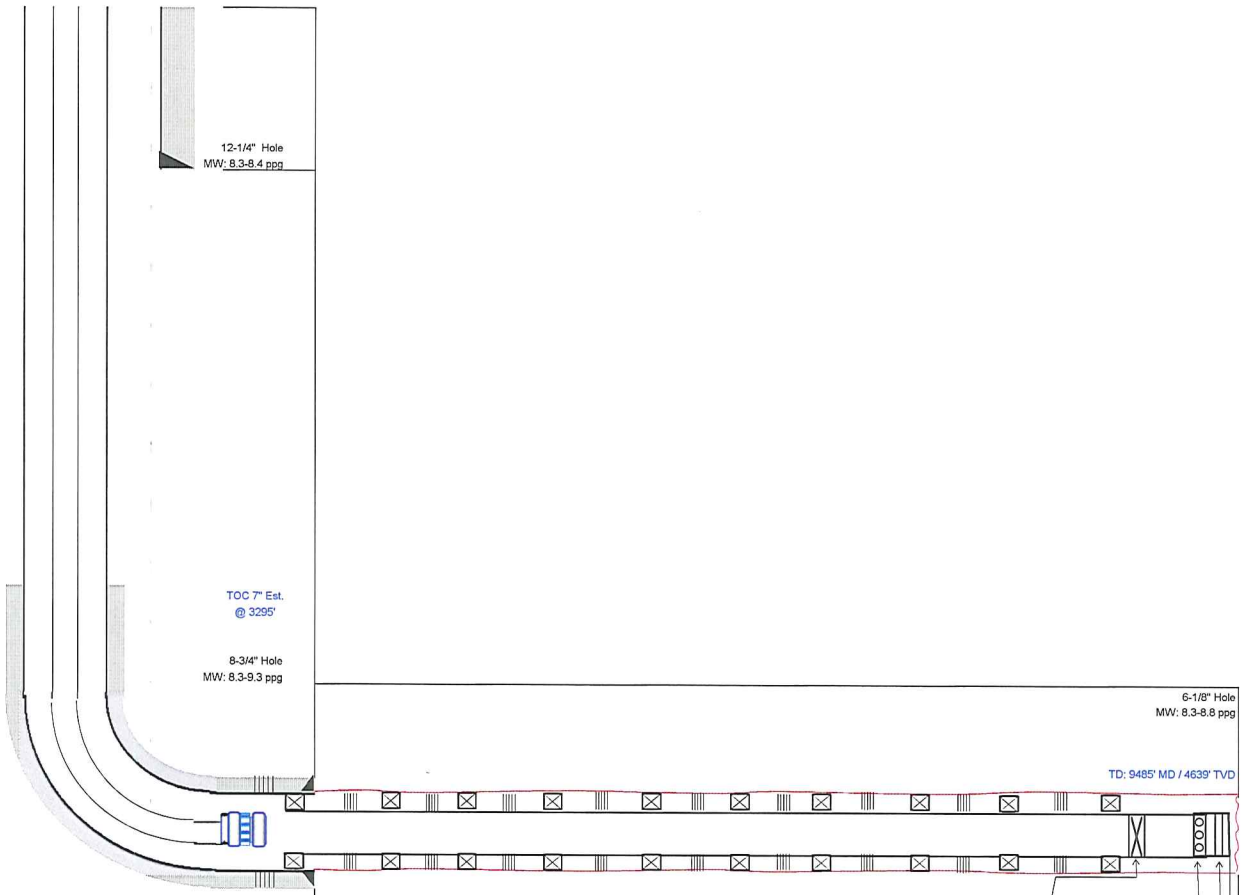
Tbg Detail	Length	Top
KB	23'	0'
2-7/8" 6.5# J-55 EUE 8rd tbg		
2.313" XN profile nipple w/ 2.205" NO-GO		
1 jt 2-7/8" 6.5# J-55 EUE 8rd tbg		
Top of BHA		
Bottom of BHA		5290'

Centrilift ESP on 2-7/8" 6.5# J-55 EUE 8rd tbg	OD (in)	Length (ft)

Tangent from 5458' to 5658'	Tangent @ ~87 °	
Top of Liner 89.6 ° inclination	5,736'	4,644'
Baker S-3 Liner Top Packer w/ 4' Long JR Sleeve (Min ID: 3.87")		

137 jts 7" 26# P-110 csg @	5,785'	4,645'
26# P-110: Cplg OD =7.656" ID=6.276" Drift=6.151" Collapse= 6210 Internal Yield=9960		
Cmt'd w/ 290 sxs 50/50 POZ Premium mixed at 13.6 ppg (Yield=1.43), followed by 100 sxs Premium H @ 15.6 ppg (Yield=1.19), FR, FH		
Set @ 87.5 °		

PBTD @	9,485'	4,639'
83 jts 4-1/2" 11.6# N-80 csg @	9,482'	4,639'
11.6# N-80: Cplg OD =5.000" ID=4.000" Drift=3.875" Collapse= 6350 Internal Yield=7780		
Liner w/ P-Sleeve, 9 open hole packers, and S-3 Liner top.		



Kevin Thompson - Senior Completions Engineer

1/17/2014

Standard Wellpath Report
Sandridge
Sec 17 - 34S - 6W, Kansas
Harper County
Wellbore: Danielle 3406 1-17H (Actual)

Wellbore

Name	Created	Last Revised
Danielle 3406 1-17H (Actual)	12-Nov-2013	26-Dec-2013

Well

Name	Government ID	Last Revised
Danielle 3406 1-17H		12-Nov-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Danielle 3406 1-17H	156044.0000	2149639.0000	N37 5 38.7143	W97 59 13.1692	223.99S	977.96W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2150617.0000	156268.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 17 - 34S - 6W	2150617.0000	156268.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments

FINAL SURVEYS:
MD 9485 is a projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Danielle 3406 1-17H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 191.210 degrees
Bottom hole distance is 4837.78 Feet on azimuth 191.05 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Dec-2013

Standard Wellpath Report
Sandridge
Sec 17 - 34S - 6W, Kansas
Harper County
Wellbore: Danielle 3406 1-17H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	2149639.00	156044.00
862.00	1.00	26.300	861.96	6.74N	3.33E	0.12	-7.26	2149642.33	156050.74
1315.00	0.90	152.500	1314.93	7.13N	6.73E	0.37	-8.30	2149645.73	156051.13
1791.00	2.40	202.800	1790.73	5.37S	4.59E	0.41	4.38	2149643.59	156038.63
2266.00	0.70	335.100	2265.61	11.91S	0.49W	0.61	11.78	2149638.51	156032.09
2740.00	0.60	12.700	2739.58	6.86S	1.16W	0.09	6.96	2149637.84	156037.14
3213.00	0.30	83.900	3212.57	4.32S	0.62E	0.12	4.11	2149639.62	156039.68
3497.00	0.50	120.500	3496.56	4.87S	2.42E	0.11	4.30	2149641.42	156039.13
3529.00	0.30	104.400	3528.56	4.96S	2.63E	0.71	4.35	2149641.63	156039.04
3561.00	1.10	260.400	3560.56	5.03S	2.40E	4.31	4.47	2149641.40	156038.97
3592.00	3.40	261.700	3591.54	5.21S	1.20E	7.42	4.88	2149640.20	156038.79
3624.00	6.00	264.600	3623.43	5.51S	1.40W	8.16	5.67	2149637.60	156038.49
3655.00	8.80	265.700	3654.16	5.84S	5.38W	9.04	6.77	2149633.62	156038.16
3687.00	11.20	266.300	3685.68	6.22S	10.93W	7.51	8.23	2149628.07	156037.78
3718.00	13.40	266.300	3715.96	6.65S	17.52W	7.10	9.93	2149621.48	156037.35
3750.00	15.70	265.800	3746.93	7.20S	25.53W	7.20	12.03	2149613.46	156036.80
3782.00	17.70	265.700	3777.58	7.89S	34.70W	6.25	14.48	2149604.29	156036.11
3814.00	19.00	266.300	3807.95	8.59S	44.75W	4.11	17.13	2149594.24	156035.41
3845.00	20.70	266.900	3837.11	9.21S	55.26W	5.52	19.78	2149583.74	156034.79
3877.00	22.50	267.400	3866.86	9.79S	67.03W	5.65	22.64	2149571.97	156034.21
3908.00	24.70	266.200	3895.27	10.49S	79.42W	7.26	25.74	2149559.58	156033.51
3940.00	27.10	264.200	3924.05	11.67S	93.34W	7.98	29.60	2149545.66	156032.33
3971.00	29.70	263.600	3951.32	13.24S	108.00W	8.44	33.99	2149531.00	156030.76
4003.00	33.00	263.600	3978.64	15.10S	124.54W	10.31	39.03	2149514.45	156028.90
4035.00	36.00	264.400	4005.01	16.99S	142.57W	9.48	44.39	2149496.43	156027.01
4066.00	38.20	263.900	4029.74	18.89S	161.17W	7.16	49.88	2149477.83	156025.11
4098.00	40.70	265.400	4054.45	20.78S	181.41W	8.36	55.67	2149457.58	156023.22
4129.00	43.30	264.500	4077.48	22.61S	202.07W	8.61	61.48	2149436.92	156021.39
4161.00	45.60	264.400	4100.32	24.78S	224.37W	7.19	67.94	2149414.62	156019.22
4192.00	48.10	264.200	4121.52	27.03S	246.87W	8.08	74.52	2149392.12	156016.97
4224.00	50.80	263.100	4142.33	29.72S	271.04W	8.83	81.86	2149367.95	156014.28
4255.00	53.30	262.100	4161.39	32.87S	295.27W	8.46	89.67	2149343.71	156011.13
4287.00	55.00	258.600	4180.13	37.23S	320.84W	10.33	98.91	2149318.15	156006.77
4319.00	54.80	258.700	4198.53	42.38S	346.51W	0.68	108.96	2149292.48	156001.62
4350.00	54.70	257.700	4216.42	47.56S	371.29W	2.65	118.86	2149267.70	155996.44
4382.00	54.20	256.500	4235.03	53.37S	396.66W	3.43	129.49	2149242.32	155990.63
4414.00	53.90	256.100	4253.82	59.50S	421.83W	1.38	140.41	2149217.15	155984.50
4445.00	54.20	255.500	4272.02	65.66S	446.16W	1.84	151.18	2149192.82	155978.34
4476.00	56.40	254.500	4289.66	72.26S	470.77W	7.58	162.44	2149168.21	155971.74
4508.00	58.30	254.000	4306.93	79.57S	496.71W	6.08	174.65	2149142.28	155964.43
4540.00	60.10	251.700	4323.31	87.68S	522.96W	8.35	187.72	2149116.02	155956.32
4571.00	61.10	248.600	4338.53	96.85S	548.36W	9.29	201.65	2149090.62	155947.14
4603.00	62.40	246.900	4353.68	107.53S	574.45W	6.20	217.20	2149064.53	155936.47
4634.00	63.80	245.300	4367.71	118.73S	599.72W	6.45	233.10	2149039.26	155925.27
4666.00	64.80	243.000	4381.58	131.30S	625.67W	7.19	250.48	2149013.31	155912.69
4697.00	65.10	240.900	4394.71	144.51S	650.45W	6.21	268.25	2148988.53	155899.49
4729.00	65.30	238.900	4408.14	159.08S	675.58W	5.71	287.43	2148963.40	155884.92
4761.00	65.80	235.300	4421.38	174.90S	700.03W	10.36	307.70	2148938.94	155869.10
4792.00	66.00	232.900	4434.04	191.49S	722.95W	7.10	328.44	2148916.02	155852.50
4824.00	66.50	230.100	4446.93	209.72S	745.87W	8.16	350.78	2148893.10	155834.27
4856.00	66.80	227.600	4459.62	229.05S	767.99W	7.23	374.04	2148870.98	155814.94
4887.00	66.80	224.800	4471.83	248.77S	788.55W	8.30	397.38	2148850.42	155795.22
4919.00	66.80	222.700	4484.44	270.02S	808.89W	6.03	422.18	2148830.08	155773.97
4951.00	66.30	218.500	4497.18	292.30S	827.99W	12.14	447.75	2148810.98	155751.69
4982.00	68.80	215.400	4509.02	315.19S	845.20W	12.26	473.55	2148793.77	155728.80
5009.00	69.10	215.600	4518.72	335.71S	859.83W	1.31	496.52	2148779.13	155708.28
5042.00	69.50	216.000	4530.38	360.74S	877.89W	1.66	524.59	2148761.08	155683.24
5073.00	69.10	215.600	4541.34	384.26S	894.86W	1.77	550.96	2148744.11	155659.72
5105.00	69.10	215.700	4552.75	408.56S	912.28W	0.29	578.18	2148726.69	155635.43
5136.00	69.90	213.700	4563.61	432.43S	928.81W	6.57	604.81	2148710.16	155611.56
5168.00	71.10	210.400	4574.30	457.99S	944.81W	10.42	633.00	2148694.16	155585.99
5200.00	72.00	207.800	4584.42	484.51S	959.57W	8.20	661.88	2148679.40	155559.47
5232.00	73.30	205.000	4593.97	511.87S	973.14W	9.29	691.36	2148665.82	155532.11
5263.00	75.30	201.900	4602.36	539.24S	985.01W	11.59	720.52	2148653.95	155504.74
5295.00	77.10	199.300	4609.99	568.33S	995.94W	9.69	751.18	2148643.02	155475.65
5326.00	78.20	195.400	4616.63	597.23S	1004.97W	12.79	781.28	2148633.99	155446.75
5358.00	79.30	191.400	4622.87	627.75S	1012.24W	12.73	812.63	2148626.72	155416.22
5389.00	80.20	187.900	4628.39	657.82S	1017.35W	11.48	843.12	2148621.61	155386.15
5421.00	82.70	185.800	4633.15	689.24S	1021.12W	10.16	874.67	2148617.84	155354.74
5452.00	85.60	183.500	4636.31	719.97S	1023.62W	11.92	905.30	2148615.34	155324.01

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Danielle 3406 1-17H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 191.210 degrees
Bottom hole distance is 4837.78 Feet on azimuth 191.05 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Dec-2013

Standard Wellpath Report
Sandridge
Sec 17 - 34S - 6W, Kansas
Harper County
Wellbore: Danielle 3406 1-17H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
5484.00	86.80	181.500	4638.43	751.86S	1025.01W	7.28	936.86	2148613.95	155292.11
5516.00	87.40	179.000	4640.05	783.82S	1025.15W	8.02	968.23	2148613.81	155260.15
5610.00	89.00	178.700	4643.00	877.75S	1023.27W	1.73	1060.00	2148615.70	155166.22
5716.00	90.50	178.600	4643.46	983.72S	1020.77W	1.42	1163.46	2148618.19	155060.25
5784.00	87.50	176.400	4644.65	1051.63S	1017.81W	5.47	1229.50	2148621.16	154992.33
5870.00	88.10	175.300	4647.95	1137.34S	1011.59W	1.46	1312.36	2148627.38	154906.62
5964.00	88.00	176.300	4651.15	1231.03S	1004.71W	1.07	1402.93	2148634.26	154812.92
6059.00	89.00	174.900	4653.64	1325.72S	997.42W	1.81	1494.39	2148641.54	154718.23
6154.00	89.40	176.000	4654.96	1420.41S	989.89W	1.23	1585.80	2148649.08	154623.54
6248.00	89.20	177.200	4656.11	1514.23S	984.31W	1.29	1676.75	2148654.65	154529.71
6343.00	88.60	177.300	4657.93	1609.11S	979.75W	0.64	1768.93	2148659.21	154434.84
6437.00	88.90	180.200	4659.98	1703.05S	977.70W	3.10	1860.68	2148661.26	154340.89
6532.00	89.00	180.200	4661.73	1798.03S	978.04W	0.11	1953.92	2148660.93	154245.90
6595.00	92.30	179.900	4661.01	1861.02S	978.09W	5.26	2015.71	2148660.87	154182.91
6626.00	91.00	179.700	4660.12	1892.01S	977.98W	4.24	2046.08	2148660.98	154151.92
6658.00	91.60	180.000	4659.39	1924.00S	977.90W	2.10	2077.45	2148661.07	154119.93
6721.00	95.70	180.100	4655.38	1986.86S	977.95W	6.51	2139.12	2148661.01	154057.07
6816.00	96.20	178.700	4645.53	2081.34S	976.96W	1.56	2231.60	2148662.00	153962.59
6911.00	94.60	177.300	4636.59	2175.85S	973.66W	2.23	2323.67	2148665.30	153868.07
7006.00	89.50	177.500	4633.20	2270.66S	969.36W	5.37	2415.83	2148669.61	153773.25
7101.00	90.20	177.200	4633.45	2365.56S	964.97W	0.80	2508.06	2148674.00	153678.35
7196.00	89.20	176.700	4633.94	2460.42S	959.91W	1.18	2600.13	2148679.05	153583.49
7291.00	89.40	176.200	4635.10	2555.23S	954.03W	0.57	2691.99	2148684.94	153488.67
7385.00	89.20	177.300	4636.25	2649.07S	948.70W	1.19	2783.00	2148690.27	153394.83
7480.00	89.40	178.100	4637.41	2743.99S	944.89W	0.87	2875.36	2148694.08	153299.91
7575.00	89.00	178.700	4638.74	2838.94S	942.24W	0.76	2967.99	2148696.73	153204.95
7669.00	88.50	178.700	4640.79	2932.90S	940.10W	0.53	3059.73	2148698.86	153111.00
7764.00	89.80	179.300	4642.20	3027.87S	938.45W	1.51	3152.57	2148700.52	153016.02
7859.00	90.70	180.200	4641.78	3122.86S	938.03W	1.34	3245.67	2148700.93	152921.02
7954.00	89.00	180.300	4642.03	3217.86S	938.45W	1.79	3338.93	2148700.52	152826.02
8048.00	89.40	180.100	4643.35	3311.85S	938.77W	0.48	3431.19	2148700.19	152732.03
8142.00	88.20	179.400	4645.31	3405.83S	938.36W	1.48	3523.29	2148700.60	152638.05
8237.00	88.50	178.000	4648.05	3500.76S	936.21W	1.51	3615.99	2148702.76	152543.11
8355.00	89.10	178.200	4650.52	3618.67S	932.30W	0.54	3730.89	2148706.67	152425.20
8450.00	89.20	180.400	4651.93	3713.65S	931.14W	2.32	3823.83	2148707.83	152330.22
8545.00	88.90	180.700	4653.51	3808.63S	932.05W	0.45	3917.17	2148706.92	152235.23
8639.00	88.60	180.500	4655.56	3902.60S	933.03W	0.38	4009.54	2148705.93	152141.26
8734.00	90.90	181.100	4655.97	3997.58S	934.36W	2.50	4102.97	2148704.61	152046.27
8829.00	91.60	180.900	4653.90	4092.55S	936.02W	0.77	4196.44	2148702.95	151951.31
8924.00	91.80	181.200	4651.08	4187.49S	937.76W	0.38	4289.91	2148701.21	151856.36
9018.00	92.20	181.200	4647.80	4281.41S	939.72W	0.43	4382.42	2148699.24	151762.44
9113.00	90.10	179.300	4645.89	4376.38S	940.14W	2.98	4475.66	2148698.83	151667.46
9208.00	89.50	178.000	4646.22	4471.35S	937.90W	1.51	4568.38	2148701.07	151572.49
9302.00	90.70	178.500	4646.06	4565.30S	935.03W	1.38	4659.98	2148703.94	151478.53
9397.00	92.60	177.700	4643.32	4660.21S	931.88W	2.17	4752.46	2148707.08	151383.62
9433.00	92.60	177.100	4641.69	4696.13S	930.25W	1.66	4787.38	2148708.72	151347.70
9485.00	92.60	177.100	4639.33	4748.01S	927.62W	==>	4837.76	2148711.34	151295.81

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Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Danielle 3406 1-17H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 191.210 degrees
Bottom hole distance is 4837.78 Feet on azimuth 191.05 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Dec-2013

Sandridge

Location Kansas | Installation Harper County
Field Sec 17 - 34S - 6W | Well Danielle 3406 1-17H

Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N37 5 40.88	W97 59 1.08	156268.00	2150617.00
Coordinate System	Kansas State Planes, Southern Zone			

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Danielle 3406 1-17H	-223.99 N	-977.96 E	N37 5 38.71	W97 59 13.17	156044.00	2149639.00

Elevation Data

Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
0.00	0.00	0.00

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
KOP	3625.00	-0.00	0.00	3625.00	0.00	0.00	0.00	-0.00
End of Build	4355.08	58.41	263.52	4235.05	-38.50	-338.81	8.00	103.66
End of Hold	4428.12	58.41	263.52	4273.31	-45.53	-400.62	0.00	122.57
Target Danielle 3406 1	5471.00	88.00	180.00	4630.07	-745.00	-940.97	8.00	913.78
Target Danielle 3406 1	5771.00	88.00	180.00	4640.54	-1044.81	-940.97	0.00	1207.87
Target Danielle 3406 1	5866.00	89.90	180.00	4642.28	-1139.79	-940.97	2.00	1301.03
T.D. & Target Danielle	9472.04	89.90	180.00	4648.44	-4745.83	-940.97	0.00	4838.21

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
5471.00	88.00	180.00	4630.07	-745.00	-940.97	Danielle 3406 1-17H - 88°	2148698.00 East : 155298.97 North
5771.00	88.00	180.00	4640.54	-1044.81	-940.97	Danielle 3406 1-17H - End 88°	2148698.00 East : 154999.15 North
5866.00	89.90	180.00	4642.28	-1139.79	-940.97	Danielle 3406 1-17H - LP	2148698.00 East : 154904.17 North
9472.04	89.90	180.00	4648.44	-4745.83	-940.97	Danielle 3406 1-17H - BHL	2148698.00 East : 151298.00 North

Target Line: 12-19-13
Target: 4640 KBTVD @ 0 VS
89.9° @ 191.21 Azimuth Plane

SandRidge ENERGY

DrillRight TECHNOLOGY, INC.

9630 Pole Rd.
Oklahoma City, OK 73160
Tel: (405) 604-2969

Created by admin
Date plotted 26-Dec-2013
Plot reference is Danielle 3406 1-17H (Plan).
Ref wellpath is Danielle 3406 1-17H (PWP#1).
Coordinates are in feet reference Danielle 3406 1-17H.
True Vertical Depths are reference Danielle 3406 1-17H.
Measured Depths are reference Slot.
Plot North is aligned to GRID North.

N
GRID
T M
W E

12-Nov-2013
IGRF Model [1900.0-2015.0] Dip: 65.19 deg Field: 51704.7 nT
Magnetic North is 4.38 deg East of True North
GRID North is 0.32 deg East of True North
To correct azimuth from True to GRID subtract 0.32 deg
To correct azimuth from Magnetic to GRID add 4.06 deg

East (feet) ->
Scale 1 inch = 1000 ft
-1000 -500 -0 500

Surface Location:
200 FNL 980 FEL
X = 2149639 Y = 156044

Sec 17 - 34S - 6W

KOP: MD 3625
Start 8°/100 BR

Projected BHL:
328 FSL 1967 FEL
X = 2148711 Y = 151296
S 4748 W 928
MD 9485 TVD 4639
VS = 4838'

<- True Vertical Depth (feet)
Scale 1 inch = 1000 ft
1000 1500 2000 2500 3000 3500 4000 4500 5000

<- North(feet)
Scale 1 inch = 1000 ft
1000 500 0 -500 -1000 -1500 -2000 -2500 -3000 -3500 -4000 -4500 -5000 -5500

-1000 -500 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000
Scale 1 inch = 1000 ft
Vertical Section (feet) ->

Azimuth 191.21 with reference 0.00 N, 0.00 E from Danielle 3406 1-17H

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3232	12/18/13

COUNTY	State	COMPANY	CUSTOMER REP
Harper	Kansas	Sandridge Exploration & Production	Jerry Bias

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Danielle 3406	1-17H	Intermediate	Arthur Setzer

EMP NAME

L. ARNEY	Bryan Douglas		
M. QUINTANA			
D. TEWELL			
F. HELKENA			

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5758

	Called Out	On Location	Job Started	Job Completed
Date	12/17/2013	12/17/2013	12/5/2013	12/5/2013
Time	1500	2200	0355	0600

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,850	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8¾"		Surface	5,788	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density 9		Lb/Gal
Disp. Fluid	Fresh Water	Density 8.33		Lb/Gal
Spacer type	Fresh Wate	BBL. 20		8.33
Spacer type	Caustic	BBL. 10		8.40
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
12/5	7.0
12/17	2.0
12/18	6.0
Total	15.0

Operating Hours

Date	Hours
12/18	2.0
Total	2.0

Description of Job

Intermediate

Pressures

MAX	5,000 PSI	AVG.	500

Average Rates in BPM

MAX	8 BPM	AVG	7

Cement Left in Pipe

Feet	89	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	290	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.3% C-20 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0	0	0.00	0.00	0.00

Summary

Preflush	10	Type:	gel	Preflush:	BBl	30.00	Type: Gel Spacer
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 220
		Actual TOC		Calc. TOC:		3,295	Actual Disp. 220.00
Average		Bump Plug PSI:		Final Circ.	PSI:	500	Disp:Bbl 220.00
ISIP	5 Min.	10 Min	15 Min	Cement Slurry	BBl	95.0	
				Total Volume	BBl	345.00	

CUSTOMER REPRESENTATIVE _____

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3289	12/27/13

COUNTY	State	COMPANY	CUSTOMER REP
Harper	Kansas	dridge Exploration & Produc	Vince Brown

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Danielle 3406	1-17H	Misc Pumping	Bryan Douglas

EMP NAME							
Bryan Douglas		0					
Jared Green							
Arthur Setzer							
David Settlemier							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 140 Pressure _____

Retainer Depth _____ Total Depth 0

	Called Out	On Location	Job Started	Job Completed
Date	12/26/2013	12/26/2013	12/26/2013	12/27/2013
Time	0630	0930	2300	0100

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		0.0	0		Surface	0	1,500
Liner							
Liner							
Tubing			3½"				
Drill Pipe							
Open Hole			6 1/8"		Surface	0	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	fresh wate	BBL.	10	8.33
Spacer type		BBL.		
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
12/26	4.0
Total	4.0

Operating Hours

Date	Hours
12/27	2.0
Total	2.0

Description of Job

Misc Pumping

set packer

pressure test backside

Pressures

MAX 2500 AVG.

Average Rates in BPM

MAX 6 BPM AVG

Cement Left in Pipe

Feet Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives		W/Rq.	Yield	Lbs/Gal
1	0	0		0	0.00	0.00	0.00
2	0	0		0	0.00	0.00	0.00
3	0	0		0	0.00	0.00	0.00

Summary

Preflush		Type:		Preflush:	BBl	10.00	Type: 0
Breakdown		MAXIMUM	2,500	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl		Calc.Disp Bbl 111
		Actual TOC	SURFACE	Calc. TOC:		SURFACE	Actual Disp. 111.00
Average		Bump Plug PSI:		Final Circ.	PSI:		Disp:Bbl 111.00
ISIP	5 Min.	10 Min	15 Min	Cement Slurry	BBl		
				Total Volume	BBl	121.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE

Mid-Continent Conductor, LLC

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

Invoice

Date	Invoice #
11/19/2013	2262

Bill To
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Parker Waldridge	Net 30		Danielle 3406 1-17H, Harper Cnty, KS	Latshaw 27

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
20" Pipe	30	Furnished 30 ft. of 20 inch conductor pipe for riser
Mouse Hole	10	Drilled 10 ft. mouse hole
Mouse Hole	75	Drilled 75 ft. mouse hole
16" Pipe	85	Furnished 85 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Grout & Trucking	10	Furnished grout and trucking to location
Grout Pump	1	Furnished grout pump
Fence Panels	1	Furnished safety netting around conductor holes
Welder & Materials	1	Furnished welder and materials
Dirt Removal	1	Furnished labor and equipment for dirt removal
Cover Plate	1	Furnished cover plates
Permits	1	Permits

Subtotal	$18,840.00
Sales Tax (0.0%)	$0.00
Total	$18,840.00