



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1170236
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: _____

1170236

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

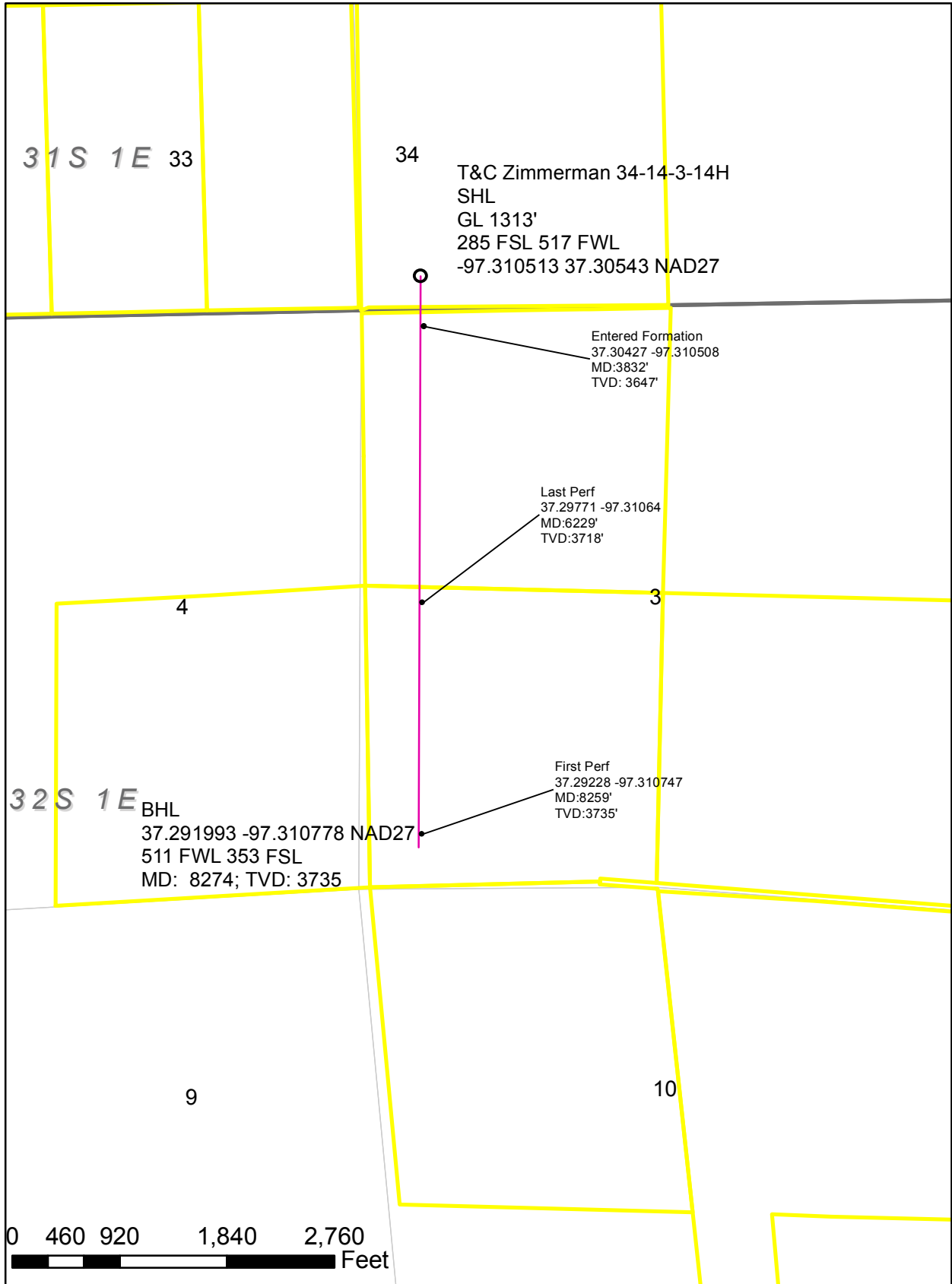
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Source Energy MidCon, LLC Horiz Completion (NAD27)



T&C Zimmerman 34-14-3-14H



Actual Wellpath Report

Source Energy TC Zimmerman 34-14-3-14_Final Surveys.

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Source Energy	Slot	TC Zimmerman 34-14-3-14 SL 285 FSL 517 FWL
Area	Kansas	Well	Subject
Field	Sumner County, KS (Source Energy) NAD27 /Grid	Wellbore	TC Zimmerman 34-14-3-14 Actual
Facility	T C Zimmerman 34-14-34-11H Sec. 34-31S-1E		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet		
North Reference	Grid	Software System	WellArchitect 3.0.0
Convergence at slot	0.73° East	User	Bouglac
Scale	0.999993	Report Generated	25/Oct/2013 at 12:37
Wellbore last revised	10-03-2013	Database/Source file	OKC

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	2345971.00	234791.00	37°18'19.549"N	97°18'37.847"W
Facility Reference Pt			2345971.00	234791.00	37°18'19.549"N	97°18'37.847"W
Field Reference Pt			2258736.39	204024.03	37°13'24.980"N	97°36'41.120"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Nabors 113 (RT) to Facility Vertical Datum	20.50ft
Horizontal Reference Pt	Facility Center	Nabors 113 (RT) to Mean Sea Level	1330.50ft
Vertical Reference Pt	Nabors 113 (RT)	Nabors 113 (RT) to Mud Line at Slot (TC Zimmerman 34-14-3-14 SL 285 FSL 517 FWL)	20.50ft
MD Reference Pt	Nabors 113 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.18°



Actual Wellpath Report

BAKER HUGHES

Source Energy TC Zimmerman 34-14-3-14_Final Surveys.

Page 2 of 5

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Facility	T C Zimmerman 34-14-34-11H Sec. 34-31S-1E		

WELLPATH DATA (116 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
0.00	0.000	304.850	0.00	0.00	0.00	0.00	2345971.00	234791.00	0.00	
20.50	0.000	304.850	20.50	0.00	0.00	0.00	2345971.00	234791.00	0.00	
128.00	1.050	304.850	127.99	-0.56	0.56	-0.81	2345970.19	234791.56	0.98	
190.00	1.250	304.850	189.98	-1.27	1.27	-1.83	2345969.17	234792.27	0.32	
308.00	1.180	304.850	307.95	-2.69	2.70	-3.88	2345967.12	234793.70	0.06	
358.00	0.190	304.850	357.95	-3.03	3.05	-4.37	2345966.63	234794.05	1.98	
450.00	0.040	124.620	449.95	-3.10	3.11	-4.47	2345966.53	234794.11	0.25	
542.00	0.030	50.180	541.95	-3.10	3.11	-4.43	2345966.57	234794.11	0.05	
634.00	0.030	83.810	633.95	-3.12	3.13	-4.38	2345966.62	234794.13	0.02	
725.00	0.100	31.040	724.95	-3.19	3.20	-4.32	2345966.68	234794.20	0.09	
818.00	0.040	29.630	817.95	-3.28	3.30	-4.26	2345966.74	234794.30	0.06	
910.00	0.030	98.020	909.95	-3.31	3.32	-4.22	2345966.78	234794.32	0.04	
1002.00	0.030	101.710	1001.95	-3.30	3.31	-4.18	2345966.82	234794.31	0.00	
1094.00	0.000	3.330	1093.95	-3.30	3.31	-4.15	2345966.85	234794.31	0.03	
1187.00	0.040	276.110	1186.95	-3.30	3.31	-4.18	2345966.82	234794.31	0.04	
1279.00	0.030	184.710	1278.95	-3.28	3.29	-4.22	2345966.78	234794.29	0.05	
1372.00	0.140	30.520	1371.95	-3.35	3.37	-4.16	2345966.84	234794.37	0.18	
1464.00	0.040	75.210	1463.95	-3.46	3.47	-4.07	2345966.93	234794.47	0.13	
1558.00	0.030	338.040	1557.95	-3.49	3.50	-4.05	2345966.95	234794.50	0.06	
1650.00	0.030	318.320	1649.95	-3.53	3.54	-4.08	2345966.92	234794.54	0.01	
1742.00	0.210	47.680	1741.95	-3.66	3.67	-3.97	2345967.03	234794.67	0.23	
1835.00	0.090	75.880	1834.95	-3.79	3.81	-3.77	2345967.23	234794.81	0.15	
1928.00	0.030	333.170	1927.95	-3.83	3.85	-3.71	2345967.29	234794.85	0.11	
2023.00	0.030	203.010	2022.95	-3.83	3.85	-3.73	2345967.27	234794.85	0.06	
2117.00	0.040	50.880	2116.95	-3.83	3.84	-3.72	2345967.28	234794.84	0.07	
2212.00	0.040	37.670	2211.95	-3.88	3.89	-3.67	2345967.33	234794.89	0.01	
2306.00	0.040	10.580	2305.95	-3.94	3.95	-3.64	2345967.36	234794.95	0.02	
2401.00	0.040	105.650	2400.95	-3.96	3.97	-3.61	2345967.39	234794.97	0.06	
2496.00	0.070	93.520	2495.95	-3.95	3.96	-3.52	2345967.48	234794.96	0.03	
2591.00	0.390	253.330	2590.95	-3.85	3.86	-3.77	2345967.23	234794.86	0.48	
2686.00	0.250	149.990	2685.95	-3.58	3.59	-3.97	2345967.03	234794.59	0.54	
2780.00	0.110	63.230	2779.95	-3.44	3.45	-3.79	2345967.21	234794.45	0.28	
2873.00	0.310	51.840	2872.95	-3.64	3.65	-3.51	2345967.49	234794.65	0.22	
2967.00	0.230	97.230	2966.95	-3.77	3.78	-3.13	2345967.87	234794.78	0.24	
3031.00	0.400	167.380	3030.95	-3.54	3.55	-2.95	2345968.05	234794.55	0.61	
3062.00	4.960	155.770	3061.90	-2.21	2.22	-2.38	2345968.62	234793.22	14.74	
3094.00	8.440	155.780	3093.68	1.19	-1.18	-0.84	2345970.16	234789.82	10.88	
3126.00	12.350	160.430	3125.15	6.55	-6.55	1.27	2345972.27	234784.45	12.49	
3157.00	16.480	166.230	3155.17	13.94	-13.95	3.42	2345974.42	234777.05	14.10	
3189.00	20.140	170.550	3185.54	23.78	-23.80	5.41	2345976.41	234767.20	12.19	
3220.00	23.550	173.970	3214.32	35.20	-35.22	6.94	2345977.94	234755.78	11.74	
3252.00	25.500	176.970	3243.43	48.44	-48.46	7.97	2345978.97	234742.54	7.23	
3283.00	28.000	179.760	3271.11	62.38	-62.40	8.36	2345979.36	234728.60	9.02	
3315.00	30.320	180.030	3299.05	77.97	-78.00	8.38	2345979.38	234713.01	7.26	
3347.00	31.870	179.530	3326.45	94.49	-94.52	8.45	2345979.45	234696.48	4.91	

Actual Wellpath Report

Source Energy TC Zimmerman 34-14-3-14_Final Surveys.

Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Source Energy	Slot	TC Zimmerman 34-14-3-14 SL 285 FSL 517 FWL
Area	Kansas	Well	Subject
Field	Sumner County, KS (Source Energy) NAD27 /Grid	Wellbore	TC Zimmerman 34-14-3-14 Actual
Facility	T C Zimmerman 34-14-34-11H Sec. 34-31S-1E		

WELLPATH DATA (116 stations) = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
3378.00	34.450	177.950	3352.40	111.44	-111.47	8.83	2345979.83	234679.53	8.78	
3410.00	36.080	177.720	3378.53	129.90	-129.93	9.53	2345980.53	234661.07	5.11	
3441.00	37.960	178.930	3403.28	148.56	-148.59	10.07	2345981.07	234642.41	6.50	
3473.00	40.590	181.670	3428.05	168.81	-168.84	9.95	2345980.95	234622.16	9.84	
3504.00	42.910	182.150	3451.18	189.44	-189.47	9.26	2345980.26	234601.53	7.55	
3536.00	44.960	182.300	3474.22	211.63	-211.65	8.40	2345979.40	234579.35	6.41	
3567.00	47.910	182.040	3495.58	234.07	-234.10	7.55	2345978.55	234556.91	9.54	
3599.00	50.630	181.430	3516.46	258.31	-258.33	6.82	2345977.82	234532.67	8.62	
3630.00	52.680	181.530	3535.69	282.62	-282.64	6.19	2345977.19	234508.37	6.62	
3644.00	54.233	181.409	3544.03	293.86	-293.88	5.90	2345976.90	234497.12	11.11	Cross Section Line
3662.00	56.230	181.260	3554.29	308.64	-308.66	5.56	2345976.56	234482.34	11.11	
3694.00	59.640	181.100	3571.28	335.75	-335.77	5.00	2345976.00	234455.23	10.66	
3725.00	63.230	180.550	3586.10	362.97	-362.99	4.61	2345975.61	234428.01	11.68	
3757.00	66.180	180.200	3599.77	391.90	-391.92	4.42	2345975.42	234399.09	9.27	
3788.00	68.450	180.010	3611.72	420.50	-420.52	4.37	2345975.37	234370.49	7.34	
3820.00	70.040	180.210	3623.06	450.42	-450.44	4.31	2345975.31	234340.57	5.00	
3877.00	69.790	180.660	3642.64	503.96	-503.97	3.90	2345974.90	234287.03	0.86	
3883.00	69.820	180.990	3644.71	509.59	-509.60	3.82	2345974.82	234281.40	5.19	
3915.00	70.460	180.400	3655.58	539.68	-539.70	3.46	2345974.46	234251.31	2.65	
3947.00	73.520	179.860	3665.47	570.11	-570.12	3.39	2345974.39	234220.88	9.70	
3978.00	76.870	179.550	3673.39	600.08	-600.09	3.55	2345974.55	234190.92	10.85	
4010.00	80.390	178.960	3679.70	631.44	-631.45	3.95	2345974.95	234159.55	11.15	
4041.00	83.710	178.450	3683.99	662.13	-662.14	4.65	2345975.65	234128.86	10.83	
4065.00	85.870	178.290	3686.17	686.01	-686.03	5.33	2345976.33	234104.97	9.02	
4104.00	88.860	177.780	3687.96	724.94	-724.96	6.66	2345977.66	234066.04	7.78	
4118.00	89.570	178.230	3688.15	738.93	-738.95	7.15	2345978.15	234052.05	6.00	
4197.00	91.200	177.980	3687.62	817.87	-817.91	9.76	2345980.76	233973.10	2.09	
4290.00	89.570	178.410	3687.00	910.81	-910.86	12.69	2345983.69	233880.15	1.81	
4382.00	90.860	177.740	3686.65	1002.75	-1002.80	15.78	2345986.78	233788.21	1.58	
4475.00	89.350	178.470	3686.48	1095.68	-1095.75	18.86	2345989.86	233695.26	1.80	
4568.00	87.970	180.290	3688.66	1188.64	-1188.71	19.87	2345990.86	233602.30	2.46	
4660.00	88.330	180.650	3691.63	1280.59	-1280.66	19.11	2345990.11	233510.35	0.55	
4752.00	88.800	180.930	3693.93	1372.56	-1372.62	17.84	2345988.84	233418.39	0.59	
4846.00	90.280	181.680	3694.68	1466.53	-1466.59	15.70	2345986.70	233324.42	1.77	
4938.00	87.630	181.600	3696.36	1558.48	-1558.53	13.07	2345984.07	233232.49	2.88	
5031.00	88.430	181.740	3699.56	1651.39	-1651.43	10.36	2345981.36	233139.58	0.87	
5126.00	89.600	182.430	3701.19	1746.32	-1746.35	6.91	2345977.90	233044.66	1.43	
5221.00	91.760	182.280	3700.07	1841.24	-1841.26	3.00	2345974.00	232949.76	2.28	
5316.00	91.790	181.630	3697.12	1936.15	-1936.16	-0.24	2345970.76	232854.86	0.68	
5410.00	89.690	180.860	3695.91	2030.12	-2030.12	-2.28	2345968.72	232760.90	2.38	
5505.00	87.970	180.330	3697.85	2125.09	-2125.09	-3.27	2345967.73	232665.93	1.89	
5599.00	89.780	179.550	3699.69	2219.07	-2219.07	-3.17	2345967.83	232571.95	2.10	
5693.00	89.010	178.120	3700.69	2313.04	-2313.04	-1.26	2345969.74	232477.98	1.73	
5788.00	88.770	178.860	3702.53	2407.98	-2407.99	1.25	2345972.25	232383.03	0.82	
5883.00	88.770	179.900	3704.57	2502.95	-2502.96	2.27	2345973.27	232288.06	1.09	



Actual Wellpath Report

Source Energy TC Zimmerman 34-14-3-14_Final Surveys.

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5977.00	89.540	180.090	3705.95	2596.93	-2596.95	2.28	2345973.28	232194.07	0.84	
6071.00	88.460	178.690	3707.59	2690.91	-2690.93	3.28	2345974.28	232100.10	1.88	
6166.00	85.430	177.800	3712.66	2785.71	-2785.74	6.19	2345977.19	232005.29	3.32	
6261.00	85.410	177.740	3720.24	2880.32	-2880.36	9.87	2345980.87	231910.66	0.07	
6355.00	87.750	179.000	3725.85	2974.10	-2974.15	12.54	2345983.54	231816.88	2.83	
6450.00	90.150	180.040	3727.59	3069.07	-3069.12	13.33	2345984.33	231721.91	2.75	
6544.00	89.940	180.370	3727.52	3163.07	-3163.12	13.00	2345984.00	231627.91	0.42	
6639.00	89.110	181.080	3728.30	3258.06	-3258.11	11.80	2345982.80	231532.92	1.15	
6735.00	90.370	180.660	3728.74	3354.05	-3354.09	10.34	2345981.34	231436.94	1.38	
6828.00	89.200	181.040	3729.09	3447.04	-3447.08	8.96	2345979.96	231343.95	1.32	
6922.00	89.720	180.830	3729.97	3541.03	-3541.06	7.43	2345978.43	231249.97	0.60	
7017.00	89.080	180.650	3730.97	3636.02	-3636.05	6.20	2345977.20	231154.98	0.70	
7112.00	89.380	180.790	3732.25	3731.00	-3731.03	5.00	2345976.00	231060.00	0.35	
7206.00	88.430	181.000	3734.04	3824.98	-3825.01	3.54	2345974.54	230966.03	1.04	
7300.00	90.060	180.130	3735.28	3918.96	-3918.99	2.61	2345973.61	230872.05	1.97	
7394.00	90.890	180.590	3734.50	4012.96	-4012.98	2.02	2345973.02	230778.06	1.01	
7489.00	90.550	181.190	3733.31	4107.94	-4107.96	0.54	2345971.54	230683.08	0.73	
7584.00	91.080	181.080	3731.96	4202.92	-4202.93	-1.34	2345969.66	230588.11	0.57	
7678.00	88.950	180.530	3731.93	4296.91	-4296.92	-2.66	2345968.34	230494.12	2.34	
7773.00	88.740	180.130	3733.85	4391.89	-4391.90	-3.21	2345967.79	230399.14	0.48	
7868.00	89.170	180.380	3735.58	4486.87	-4486.88	-3.63	2345967.37	230304.16	0.52	
7962.00	89.140	180.460	3736.96	4580.86	-4580.87	-4.32	2345966.68	230210.17	0.09	
8057.00	90.520	181.270	3737.25	4675.85	-4675.85	-5.75	2345965.25	230115.19	1.68	
8152.00	90.680	180.520	3736.25	4770.84	-4770.84	-7.23	2345963.77	230020.21	0.81	
8216.00	90.460	180.400	3735.62	4834.83	-4834.83	-7.75	2345963.25	229956.21	0.39	
8274.00	90.460	180.400	3735.15	4892.83	-4892.83	-8.15	2345962.85	229898.22	0.00	BHL 354 FSL 518 FWL

Actual Wellpath Report

Source Energy TC Zimmerman 34-14-3-14_Final Surveys.

Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Source Energy	Slot	TC Zimmerman 34-14-3-14 SL 285 FSL 517 FWL
Area	Kansas	Well	Subject
Field	Sumner County, KS (Source Energy) NAD27 /Grid	Wellbore	TC Zimmerman 34-14-3-14 Actual
Facility	T C Zimmerman 34-14-34-11H Sec. 34-31S-1E		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
TC Zimmerman 34-14-3-14 PBHL		3777.50	-4893.05	-15.00	2345956.00	229898.00	37°17'31.177"N	97°18'38.805"W	point

WELLPATH COMPOSITION - Ref Wellbore: TC Zimmerman 34-14-3-14 Actual Ref Wellpath: AWP- (final)					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore
20.50	308.00	Gyrodatta standard - GWD or Single-shot	Singel Shot Gyros		TC Zimmerman 34-14-3-14 Actual
308.00	8216.00	NaviTrak (Standard)	INTEQ MWD		TC Zimmerman 34-14-3-14 Actual
8216.00	8274.00	Blind Drilling (std)	Projection to bit		TC Zimmerman 34-14-3-14 Actual

Consolidated Oil Well Services, Inc.

EL DONADO #5 671042

OFFICE: 1316 322-7022 MOBILE: 346 323-3881

JOB ESTIMATE

PREPARED FOR: Southern Energy DATE: 10-10-13

TYPE OF JOB: 9 5/8 SURFACE 300 FT

TC Zimmerman 34-14-3-14 H COST
Sumner Co, Ws 870.00

PUMP TRUCK
SECOND WELL CHARGE
MILEAGE 60 PER MILE 4.20 252.00

QUANTITY	MATERIAL	UNIT COST	TOTAL
<u>210</u>	Thick Set Cement		
	Regular Cement	<u>15.70</u>	
	Pozmix 60/40		
<u>420</u>	Gel	<u>22</u>	
<u>105</u>	Floccale	<u>2.47</u>	
<u>630</u>	Calcium Chloride	<u>78</u>	
	Koi-Seal ___ lbs/sk		
<u>1</u>	Rubber Plug 9 5/8 TR		
<u>5</u>	Centralizers	<u>98.75</u>	
<u>1</u>	Float Shoe		
	Cement Baskets		
<u>2</u>	9 5/8 Stop Rings	<u>42.40</u>	
<u>4</u>	Boys Baker Lock	<u>65.00</u>	
<u>1</u>	9 5/8 Plug Bottom		

80 Hbl. WATER TRUCK \$90/hr.
130 Hbl. WATER TRANSPORT \$100/HR

TON MILEAGE 10 TONS x 60 MILES x 1.41

SUBTOTAL

6.65 SALES TAX

TOTAL

THANK YOU!

JOB ESTIMATE PRICES ARE VALID FOR 90 DAYS.



CONSOLIDATED
Oil Well Services, LLC

263397

TICKET NUMBER 43678
LOCATION 180
FOREMAN Jacob Storm

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-16-13	7698	TC Zimmerman 34-A-1	34	31	1E	Sumner

CUSTOMER
Source Energy Midcon LLC

MAILING ADDRESS
1805 Shea center Drive Ste 100

CITY
Highlands Ranch STATE CO ZIP CODE 80129

JG
Jg
BH

TRUCK #	DRIVER	TRUCK #	DRIVER
446	Josh		
491	Bill H		
702	Jacob S		

JOB TYPE Long string B HOLE SIZE 8 1/4 HOLE DEPTH 4086 CASING SIZE & WEIGHT 7" 23-2clb

CASING DEPTH 4086 DRILL PIPE N/A TUBING N/A OTHER _____

SLURRY WEIGHT 145-156 SLURRY VOL 66.47 WATER gal/sk 6.9 CEMENT LEFT in CASING _____

DISPLACEMENT 16046 DISPLACEMENT PSI 1000 MIX PSI 500 RATE 6 bpm

REMARKS: Safety meeting, Break circulation, mix pump shbl water, 500 gal
dull 100 shbl water mix 160 sks class A 3/4 gel 2/cc 5/kol-seal, get
14.5 ppg, tail with 100 sks class A 3/4 gel 2/cc 5/kol-seal at 15.6 ppg
turn plug pump and lines, turn plug loose displace with
160.46 bbl water landing plug at 2000 psi hold pressure for
10 min check float, float held Job complete.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		
5406	60	MILEAGE		
5407	60	12 ton mileage		
11045	260	class A		
1102	56	calcium chloride		
1118 B	765	gel		
1110 A	1275	kol-seal		
44001	1	7" Rubber plug		
5402	1655	Fottage		
1144 B	500	PR 1100		
	T+C	Zimmerman 34-143-144		
	10068-D			
	830.100		8,524.95	
		7" Intermediate		
	Casing	10-16-13		
	69			
	50			

Ravin 3737

AUTHORIZATION [Signature] TITLE Drilling Supervisor DATE 10-16-13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

Zimmerman 34-14-3-14 H

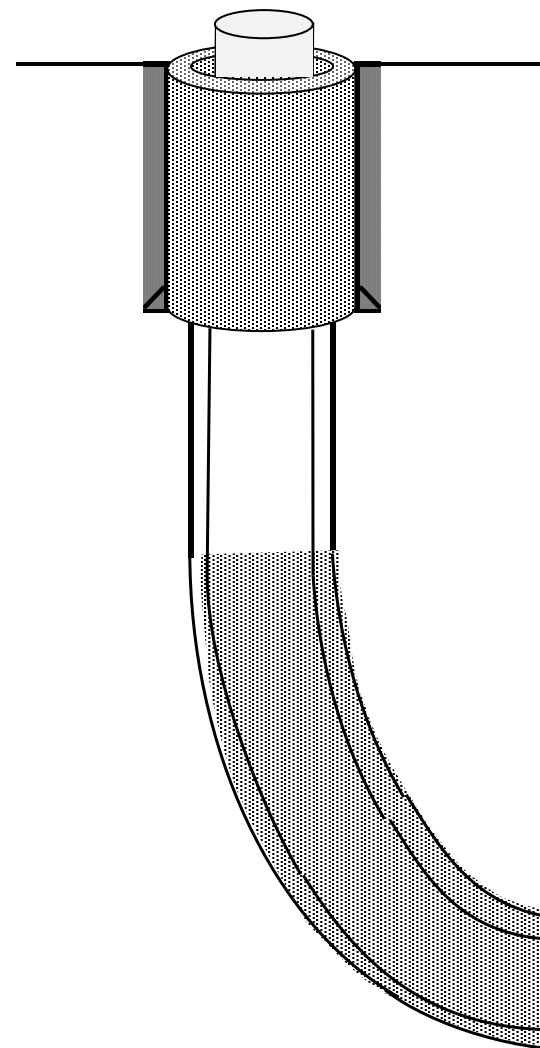
As Drilled Wellbore Diagram - **NOT TO SCALE**



Updated: 2/6/2014
 Location: Section 34 Township 31S Range 1E, Sumner County, Kansas
 Field: Unknown
 API Number: 15-191-22701-01-00
 Target Zone: Mississippian Lime

Elevations:	GL	1310
	KB	1330.5
	KB	20.5

Tubing
 3-1/2", J-55, EUE 8 rd
 EOT @ 3826' - ESP btm @ 3883'



Surface Section

Hole: 13.5"
 Depth: 337' MD
 Casing: 327' MD - 9-5/8" 36# J-55, ST&C
 Cement: 210 sx Class 'A'
 Cement Top: **Surface**
 Mud Weight: 8.8 ppg

Intermediate Section

Hole: 8-3/4"
 Depth: **4150' MD/ 3688' TVD**
 Casing: 7" 23#, 26#, N-80 LT&C
 Cement Top : Est. 2650' MD
 Cement: 260 sx Class 'A'
 Mud Weight: 8.6-9.1 ppg

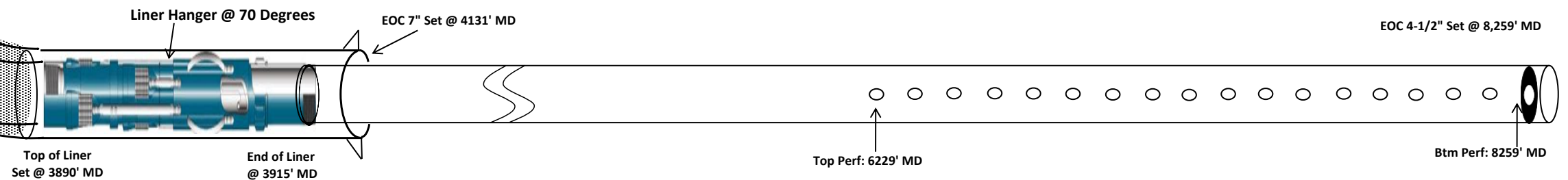
Directional Section

KOP: 3042' MD
 Build @ 9 deg/100' to a 90.0 degree inclination at 4150' MD
 Set casing @ 4131' and maintain 90 degrees to TD @ 8,274' MD.

Production Section

Hole: 6-1/8"
 Depth: **8274' MD/ 3735' TVD**
 Casing: 4-1/2", 11.6# N-80 LT&C tieback to Surface for stimulation pumping
 Cement : 94 bbls, 13.5 ppg, 352 sks 40/60 Poz H
 Mud Weight: 8.4 ppg Slick Water

Liner Top @ 3890' MD/ 3644' TVD



HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE



Last Fracture Date:	11/23/13
County:	Sumner
API Number (14 Digits):	15-191-22701-01-00
Operator Name:	Source Energy MidCon LLC
Well Name and Number:	T&C Zimmerman 34-14-3-14H
Latitude:	37.30554
Longitude:	-97.31051
Datum:	NAD27
Production Type:	OIL
True Vertical Depth (TVD):	3735
Total Base Fluid Volume (gal)*:	964,110

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)**	Authorized Representative's Name, Address and Phone Number
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	93.08006%	
Sand (Proppant)	Schlumberger	Proppant	Silica Substrate	1408-60-7	100.00%	5.22303%	
L065	Schlumberger	Scale inhibitor	Proprietary	TRADE SECRET			Schlumberger Technology Corporation P.O. Box 732149 Dallas, TX 75373
U042	Schlumberger	Iron chelating agent	Proprietary	TRADE SECRET			Schlumberger Technology Corporation P.O. Box 732149 Dallas, TX 75373
J218	Schlumberger	Liquid Enzyme Breaker	Cellulase Enzyme Proprietary	TRADE SECRET	100.00%	0.00160%	
B244B	Schlumberger	Biocide	Sodium Hydroxide	7173-51-5	100.00%	0.02056%	
B315R	Schlumberger	Friction Reducer	Petroleum Distillate	64742-47-8	100.00%	0.08524%	
A264	Schlumberger	Acid Corrosion Inhibitor	Methanol	67-56-1	100.00%	0.00395%	
L058	Schlumberger	Iron Control Agent	Hydrochloric Acid	7647-01-0	40.00%	0.00266%	
H015	Schlumberger	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	0.18362%	
J353L	Schlumberger	Oxygen scavenger	Proprietary	TRADE SECRET			Schlumberger Technology Corporation P.O. Box 732149 Dallas, TX 75373
JO66S	Schlumberger	Diverting agent	Proprietary	TRADE SECRET			Schlumberger Technology Corporation P.O. Box 732149 Dallas, TX 75373

Ingredients shown above are subject to 29 CRF 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

*Total Water Volume sources may include fresh water, produced water, and/or recycled water. **Information is based on the maximum potential for concentration and thus the total may be over 100%. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers' Material Safety Data Sheets (MSDS).