Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1209755

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 # 34633
Name: Source Energy MidCon LLC
Address 1: 1805 SHEA CENTER DR., STE 100
Address 2:
City: HIGHLANDS RANCH State: CO Zip: 80129 + ____
Contact Person: Elizabeth Habermehl
Phone: (720) 763-3679
CONTRACTOR: License # 34718
Name: Nabors Drilling USA, LP
Wellsite Geologist: Julia Caldaro-Baird
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 #:

04/01/2014	04/14/2014	05/15/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-191-22725-01-00
Spot Description: 37.312492, 97.314103
SE _ SE _ SE _ NE Sec. 33 Twp. 31 S. R. 1 ☑ East ☐ West
2438 Feet from ☑ North / ☐ South Line of Section
260 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: Sumner
Lease Name: Schmidt Well #: 33-42-28-41H
Field Name: Unknown
Producing Formation: Mississipian
Elevation: Ground: 1287 Kelly Bushing: 1307
Total Vertical Depth: 3621 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 315 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: 700 ppm Fluid volume: 2000 bbls
Dewatering method used: Evaporated

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: 06/30/2014
☑ **Confidential Release Date:** 06/29/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/01/2014

[redacted] 1209755

Operator Name: Source Energy MidCon LLC Lease Name: Schmidt Well #: 33-42-28-41H

Sec. 33 Twp. 31 S. R. 1 ☑ East ☐ West County: Sumner

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:

Triple Combo

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

Name	Top	Datum
Stalnaker	2695	KB
Lansing	2964	KB
Cleveland	3140	KB
Marmaton	3340	KB
Miss	3490	KB

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
surface	13.5	9.6250	36	315	class A	220	
intermediate	8.75	7	23	4126	class A	360	
production	6.1250	4.5	11.6	8807	none	0	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	3.5	3617	3567	☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 05/16/2014

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

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Source Energy MidCon LLC
Well Name	Schmidt 33-42-28-41H
Doc ID	1209755

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
surface	13.5	9.6250	36	315	class A	220	
intermediate	8.75	7	23	4126	class A	360	
production	6.1250	4.5	11.6	8807	none	0	

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

Last Fracture Date:	**5/4/2014**
County:	Sumner
API Number (14 Digits):	15-191-22725-01-00
Operator Name:	Source Energy MidCon LLC
Well Name and Number:	Schmidt 33-42-28-41H
Latitude:	37.312492
Longitude:	-97.314103
Datum:	NAD27
Production Type:	OIL
True Vertical Depth (TVD):	4000
Total Base Fluid Volume (gal)*:	3,443,778

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%	***95.60968%***	
Sand (Proppant)	CJES	Proppant	Silica Substrate	1408-60-7	100.00%	***3.33649%***	C&J Energy Services, 10375 Richmond Ave. Suite 1910, Houston, TX 77042 713-
FR-27193	CJES	friction reducer	Cationic polymer	7647-14-5	75.00%	***0.07869%***	
ScaleSorb	Baker Petrolite	Special scale inhibitor	Blatomaceous earth, calcined	91053-39-3	100.00%	***0.01215%***	
GS-101	Economy	Proprietary Mixture	Mixture	91053-39-3	100.00%	***0.01542%***	
SU-15	Blue Ribbon	Surfactant	Ethoxylated alcohol	66455-15-0	25.00%	***0.02551%***	
CC-70	Blue Ribbon	Clay Stabilizer	Choline chloride aqueous solution	67-48-1	70.00%	***0.07065%***	
Bioguard 4450	Bioguard	Biocide	Sodium Hydroxide	7173-51-5	100.00%	***0.02405%***	
Hydrochloric Acid 15%	CJES	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	***0.02099%***	
Rock Salt	CJES	Diverter	Sodium Chloride	7647-14-5	100.00%	***0.54561%***	
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).

Precision Survey Report

Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
TIE IN	0	0.00	0.00	0.00	0.00	0.00	0.00	0.0
1	428	0.8	11.6	427.99	2.93	0.60	2.92	0.2
2	523	0.7	17.4	522.98	4.13	0.91	4.11	0.1
3	615	0.8	14.8	614.97	5.29	1.24	5.27	0.1
4	708	0.9	12.2	707.96	6.63	1.56	6.60	0.1
5	801	0.8	0.6	800.95	7.99	1.72	7.96	0.2
6	893	1.0	11.1	892.94	9.42	1.88	9.39	0.3
7	986	1.0	17.6	985.92	10.99	2.28	10.95	0.1
8	1079	1.2	12.5	1078.91	12.72	2.74	12.67	0.2
9	1171	1.1	12.5	1170.89	14.52	3.14	14.47	0.1
10	1263	1.1	15.8	1262.87	16.23	3.57	16.17	0.1
11	1355	0.4	318.0	1354.86	17.32	3.60	17.26	1.0
12	1447	0.4	295.0	1446.86	17.69	3.09	17.64	0.2
13	1538	0.2	89.5	1537.86	17.83	2.96	17.78	0.6
14	1630	0.4	135.9	1629.86	17.60	3.35	17.54	0.3
15	1723	1.3	185.5	1722.85	16.32	3.47	16.26	1.2
16	1816	1.2	183.2	1815.83	14.29	3.32	14.24	0.1
17	1909	1.3	179.1	1908.81	12.27	3.28	12.21	0.1
18	2002	1.5	178.1	2001.78	10.00	3.33	9.94	0.2
19	2094	1.5	175.8	2093.75	7.59	3.46	7.53	0.1
20	2187	1.6	175.1	2186.71	5.08	3.66	5.02	0.1
21	2280	1.3	174.6	2279.68	2.74	3.87	2.68	0.3
22	2373	1.5	169.3	2372.65	0.49	4.20	0.42	0.3
23	2468	1.1	177.0	2467.63	-1.64	4.48	-1.71	0.5
24	2562	1.1	179.8	2561.61	-3.44	4.53	-3.52	0.1
25	2657	0.8	167.5	2656.60	-5.00	4.67	-5.08	0.4
26	2750	0.9	183.4	2749.59	-6.36	4.77	-6.44	0.3

Precision Survey Report

Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
27	2782	0.8	170.5	2781.59	-6.84	4.79	-6.91	0.7
28	2813	0.6	156.6	2812.58	-7.20	4.89	-7.28	0.8
29	2845	1.0	339.1	2844.58	-7.09	4.86	-7.17	5.0
30	2876	4.2	340.5	2875.55	-5.77	4.38	-5.84	10.3
31	2908	6.9	340.9	2907.39	-2.85	3.36	-2.90	8.4
32	2940	8.5	340.9	2939.10	1.21	1.96	1.17	5.0
33	2971	11.6	339.3	2969.62	6.29	0.11	6.28	10.0
34	3003	15.1	338.1	3000.76	13.17	-2.58	13.21	11.0
35	3034	17.6	337.5	3030.50	21.24	-5.88	21.34	8.1
36	3066	19.7	336.6	3060.82	30.66	-9.88	30.82	6.6
37	3097	22.2	337.5	3089.77	40.87	-14.19	41.10	8.1
38	3129	24.2	339.6	3119.18	52.61	-18.79	52.91	6.8
39	3161	26.1	341.0	3148.14	65.41	-23.37	65.78	6.2
40	3192	28.7	341.4	3175.66	78.91	-27.97	79.36	8.4
41	3224	31.0	343.5	3203.42	94.10	-32.76	94.63	7.9
42	3255	31.7	345.1	3229.89	109.63	-37.12	110.22	3.5
43	3287	31.8	345.4	3257.10	125.91	-41.41	126.57	0.6
44	3318	33.3	345.8	3283.23	142.07	-45.56	142.79	4.9
45	3350	35.7	345.8	3309.60	159.64	-50.00	160.43	7.5
46	3381	37.4	346.1	3334.50	177.54	-54.48	178.41	5.5
47	3413	39.4	347.4	3359.58	196.89	-59.03	197.83	6.7
48	3443	42.7	348.4	3382.20	216.15	-63.16	217.16	11.2
49	3475	45.7	348.2	3405.14	238.00	-67.68	239.07	9.4
50	3506	49.2	348.6	3426.10	260.36	-72.27	261.51	11.3
51	3538	52.1	350.9	3446.39	284.71	-76.66	285.93	10.6
52	3569	55.6	350.5	3464.67	309.41	-80.71	310.69	11.3
53	3601	58.4	351.2	3482.10	335.90	-84.97	337.25	8.9

Precision Survey Report

Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
54	3632	61.9	351.1	3497.53	362.46	-89.11	363.88	11.3
55	3664	65.7	350.7	3511.65	390.81	-93.65	392.29	11.9
56	3696	68.6	351.6	3524.08	419.94	-98.18	421.50	9.4
57	3727	71.7	351.6	3534.60	448.79	-102.44	450.41	10.0
58	3759	72.2	351.1	3544.52	478.87	-107.02	480.56	2.2
59	3790	72.0	350.9	3554.05	508.00	-111.63	509.76	0.9
60	3822	72.9	351.1	3563.70	538.14	-116.41	539.97	2.9
61	3853	76.6	351.2	3571.85	567.68	-121.01	569.59	11.9
62	3885	77.5	353.0	3579.02	598.57	-125.29	600.55	6.2
63	3916	78.8	357.0	3585.39	628.79	-127.93	630.80	13.3
64	3948	79.0	358.4	3591.55	660.16	-129.19	662.19	4.3
65	3980	79.9	358.1	3597.41	691.61	-130.15	693.65	3.0
66	4011	81.5	358.4	3602.42	722.19	-131.09	724.24	5.2
67	4043	84.0	358.1	3606.46	753.91	-132.06	755.98	7.9
68	4074	86.8	358.3	3608.94	784.79	-133.03	786.87	9.1
69	4175	87.2	358.8	3614.23	885.62	-135.58	887.73	0.6
70	4268	86.4	358.3	3619.42	978.45	-137.93	980.58	1.0
71	4360	87.3	358.1	3624.48	1070.26	-140.82	1072.43	1.0
72	4392	87.8	357.4	3625.84	1102.21	-142.07	1104.39	2.7
73	4422	87.5	357.0	3627.07	1132.15	-143.54	1134.35	1.7
74	4453	87.9	357.2	3628.32	1163.08	-145.10	1165.31	1.4
75	4485	88.5	357.6	3629.32	1195.03	-146.55	1197.28	2.3
76	4516	88.5	357.7	3630.13	1226.00	-147.82	1228.26	0.3
77	4548	89.5	358.4	3630.69	1257.97	-148.91	1260.25	3.8
78	4579	90.4	0.0	3630.72	1288.97	-149.35	1291.24	5.9
79	4642	90.4	357.2	3630.28	1351.94	-150.88	1354.23	4.4
80	4674	90.4	357.6	3630.06	1383.91	-152.34	1386.22	1.2

Precision Survey Report

Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
81	4706	90.0	359.1	3629.94	1415.89	-153.26	1418.22	4.9
82	4737	91.3	0.4	3629.59	1446.89	-153.39	1449.21	5.9
83	4800	91.3	0.2	3628.16	1509.87	-153.06	1512.18	0.3
84	4832	90.9	0.9	3627.55	1541.86	-152.76	1544.16	2.5
85	4863	90.6	1.1	3627.14	1572.86	-152.21	1575.14	1.2
86	4895	89.3	1.6	3627.17	1604.85	-151.46	1607.12	4.4
87	4926	88.5	2.7	3627.77	1635.82	-150.30	1638.06	4.4
88	4990	88.3	2.3	3629.55	1699.73	-147.51	1701.92	0.7
89	5021	89.5	2.8	3630.15	1730.70	-146.13	1732.86	4.2
90	5053	90.4	2.5	3630.18	1762.66	-144.65	1764.80	3.0
91	5084	92.0	2.5	3629.53	1793.62	-143.30	1795.73	5.2
92	5116	91.6	2.3	3628.52	1825.58	-141.96	1827.66	1.4
93	5147	90.7	2.5	3627.90	1856.55	-140.66	1858.60	3.0
94	5211	90.0	2.7	3627.51	1920.48	-137.76	1922.48	1.1
95	5304	91.9	3.0	3625.97	2013.35	-133.13	2015.26	2.1
96	5398	91.0	2.3	3623.59	2107.21	-128.79	2109.04	1.2
97	5493	89.8	2.0	3622.93	2202.14	-125.23	2203.90	1.3
98	5588	89.2	0.2	3623.75	2297.12	-123.40	2298.83	2.0
99	5682	88.8	0.6	3625.40	2391.10	-122.75	2392.79	0.6
100	5714	89.0	0.2	3626.01	2423.09	-122.52	2424.78	1.4
101	5777	90.6	0.0	3626.23	2486.09	-122.41	2487.77	2.6
102	5872	91.0	358.3	3624.90	2581.07	-123.82	2582.75	1.8
103	5966	89.4	357.4	3624.57	2675.00	-127.35	2676.73	2.0
104	6061	87.5	357.4	3627.14	2769.86	-131.66	2771.65	2.0
105	6162	86.8	354.7	3632.17	2870.49	-138.60	2872.37	2.8
106	6223	87.1	354.9	3635.41	2931.15	-144.12	2933.12	0.6
107	6255	88.7	355.1	3636.59	2963.00	-146.91	2965.02	5.0

Precision Survey Report

Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
108	6286	90.0	355.3	3636.94	2993.89	-149.50	2995.94	4.2
109	6316	90.0	355.5	3636.94	3023.80	-151.91	3025.88	0.7
110	6347	90.5	356.2	3636.80	3054.71	-154.15	3056.83	2.8
111	6378	91.9	357.2	3636.15	3085.66	-155.94	3087.80	5.5
112	6409	90.5	358.1	3635.50	3116.62	-157.21	3118.78	5.4
113	6440	90.6	357.9	3635.21	3147.60	-158.29	3149.77	0.7
114	6472	90.9	359.5	3634.79	3179.59	-159.02	3181.77	5.1
115	6503	90.9	0.4	3634.30	3210.58	-159.04	3212.76	2.9
116	6535	89.5	0.0	3634.19	3242.58	-158.93	3244.75	4.6
117	6567	88.1	0.0	3634.86	3274.58	-158.93	3276.74	4.4
118	6598	90.6	1.8	3635.21	3305.57	-158.44	3307.72	9.9
119	6630	92.7	2.8	3634.29	3337.52	-157.16	3339.65	7.3
120	6661	93.9	3.5	3632.50	3368.43	-155.46	3370.52	4.5
121	6693	93.7	3.0	3630.38	3400.30	-153.65	3402.37	1.7
122	6724	93.1	3.4	3628.54	3431.20	-151.92	3433.23	2.3
123	6755	92.7	3.2	3626.98	3462.11	-150.14	3464.11	1.4
124	6787	92.6	3.7	3625.50	3494.02	-148.22	3495.98	1.6
125	6818	92.8	3.4	3624.04	3524.92	-146.30	3526.85	1.2
126	6850	91.7	2.8	3622.78	3556.85	-144.57	3558.74	3.9
127	6881	91.6	3.0	3621.89	3587.80	-143.00	3589.66	0.7
128	6913	90.8	3.0	3621.22	3619.75	-141.33	3621.58	2.5
129	6944	89.7	2.1	3621.08	3650.72	-139.95	3652.52	4.6
130	6976	89.8	2.5	3621.22	3682.69	-138.67	3684.47	1.3
131	7007	89.3	3.4	3621.47	3713.65	-137.07	3715.40	3.3
132	7039	89.5	3.5	3621.80	3745.59	-135.14	3747.30	0.7
133	7070	89.3	3.0	3622.13	3776.54	-133.39	3778.22	1.7
134	7102	89.7	3.4	3622.40	3808.49	-131.60	3810.13	1.8

Precision Survey Report

Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
135	7133	90.5	3.5	3622.35	3839.43	-129.74	3841.04	2.6
136	7164	91.2	4.1	3621.89	3870.36	-127.68	3871.93	3.0
137	7196	91.8	3.7	3621.05	3902.27	-125.51	3903.81	2.3
138	7227	90.7	2.3	3620.38	3933.22	-123.88	3934.72	5.7
139	7259	90.2	1.1	3620.13	3965.20	-122.93	3966.69	4.1
140	7291	89.8	359.8	3620.13	3997.20	-122.68	3998.68	4.3
141	7385	88.5	357.4	3621.52	4091.16	-124.98	4092.66	2.9
142	7449	87.9	358.3	3623.53	4155.08	-127.38	4156.61	1.7
143	7480	88.1	358.1	3624.61	4186.04	-128.35	4187.59	0.9
144	7511	88.1	359.1	3625.64	4217.02	-129.11	4218.57	3.2
145	7543	89.0	0.2	3626.45	4249.01	-129.30	4250.55	4.4
146	7574	89.8	0.4	3626.77	4280.00	-129.14	4281.55	2.7
147	7606	89.7	0.7	3626.91	4312.00	-128.83	4313.53	1.0
148	7638	90.1	0.9	3626.97	4344.00	-128.39	4345.52	1.4
149	7669	89.9	0.7	3626.97	4374.99	-127.96	4376.51	0.9
150	7701	90.0	1.1	3627.00	4406.99	-127.45	4408.49	1.3
151	7732	90.1	0.6	3626.97	4437.99	-126.99	4439.47	1.6
152	7764	90.7	0.9	3626.75	4469.98	-126.57	4471.46	2.1
153	7827	89.9	0.6	3626.42	4532.98	-125.75	4534.43	1.4
154	7859	89.6	1.1	3626.56	4564.97	-125.27	4566.41	1.8
155	7890	89.3	0.9	3626.85	4595.97	-124.73	4597.39	1.2
156	7922	88.5	1.3	3627.47	4627.95	-124.12	4629.37	2.8
157	7953	88.3	1.1	3628.33	4658.94	-123.47	4660.33	0.9
158	7985	89.0	0.9	3629.09	4690.92	-122.91	4692.31	2.3
159	8016	88.8	1.3	3629.68	4721.91	-122.32	4723.28	1.4
160	8048	88.5	1.4	3630.44	4753.89	-121.56	4755.25	1.0
161	8079	90.3	0.9	3630.76	4784.88	-120.94	4786.22	6.0

Precision Survey Report

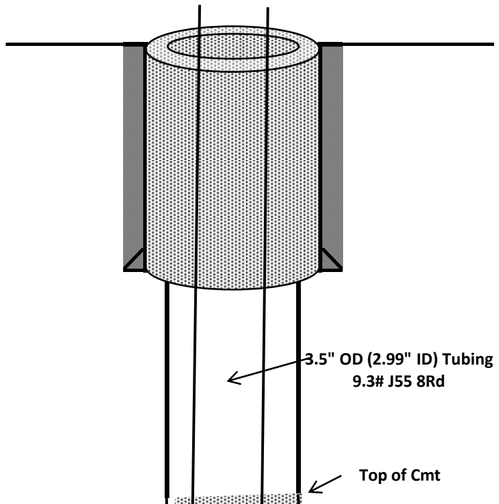
Client	Source Energy	**MWD Operator**	L.Beaton / B.Ferguson
Well Name	Schmidt 33-42-28-41H	**Rig Name**	Nabors 113
Location	Sumner County, KS	**End Date**	4/14/2014
Start Date	4/2/2014	**Proposed Direction**	359.06°
North Reference	TRUE	**Declination**	3.89°

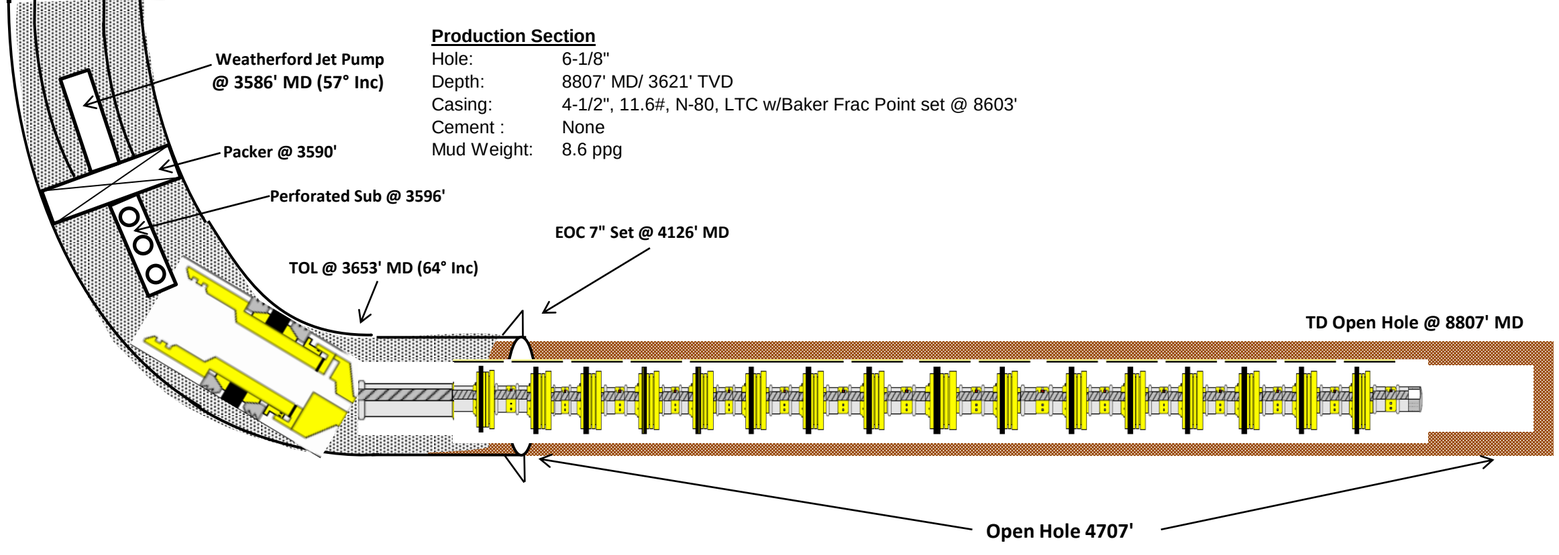
SUR NUM	MD ft	INC º	AZM º	TVD ft	N-S ft	E-W ft	SECT ft	DLS º/100'
162	8111	90.0	359.8	3630.68	4816.88	-120.75	4818.21	3.6
163	8142	90.7	358.4	3630.49	4847.88	-121.23	4849.21	5.0
164	8174	89.9	359.1	3630.32	4879.87	-121.93	4881.21	3.3
165	8205	88.6	358.6	3630.73	4910.86	-122.55	4912.21	4.5
166	8237	89.1	357.0	3631.37	4942.83	-123.78	4944.19	5.2
167	8268	89.1	354.2	3631.86	4973.73	-126.16	4975.13	9.0
168	8299	89.0	353.9	3632.37	5004.56	-129.37	5006.01	1.0
169	8331	89.8	353.5	3632.71	5036.36	-132.88	5037.86	2.8
170	8362	90.2	353.0	3632.71	5067.15	-136.53	5068.71	2.1
171	8393	90.8	353.7	3632.43	5097.94	-140.12	5099.55	3.0
172	8424	91.6	354.6	3631.79	5128.77	-143.28	5130.43	3.9
173	8456	91.1	354.0	3631.03	5160.60	-146.45	5162.31	2.4
174	8488	90.7	353.3	3630.53	5192.40	-149.99	5194.16	2.5
175	8519	91.5	354.6	3629.93	5223.22	-153.26	5225.03	4.9
176	8551	92.6	356.2	3628.79	5255.10	-155.82	5256.95	6.1
177	8614	93.4	359.5	3625.49	5317.96	-158.18	5319.84	5.4
178	8645	92.9	359.7	3623.79	5348.91	-158.40	5350.79	1.7
179	8677	92.2	359.5	3622.36	5380.88	-158.62	5382.75	2.3
180	8709	90.8	358.8	3621.53	5412.86	-159.10	5414.74	4.9
181	8740	90.5	359.3	3621.17	5443.85	-159.61	5445.74	1.9
PTB	8807	90.5	359.3	3620.59	5510.85	-160.43	5512.74	0.0

Schmidt 33-42-28-41H

As Drilled Wellbore Diagram - NOT TO SCALE

Updated:	06/12/2014			
Location:	Section 33 Township 31S Range 1E, Sumner County, Kansas			
Field:	Matrix			
API Number:	15-191-22725-01-00	Elevations:	GL	1287
Target Zone:	Mississippian Lime		KB	1307
Spud Date:	4/1/2014 @ 10:00 hrs		KB	20





Surface Section

Hole:	13-1/2"
Depth:	315' MD
Casing:	9-5/8" 36# J-55, ST&C
Cement Top:	Surface
Cement:	(220 Sks) of Class A at 14.7#
Mud Weight:	8.4 ppg

Intermediate Section

Hole:	8-3/4"
Depth:	4126' MD/ ' TVD
Casing:	7" 23# & 26#, N-80 LT&C - Set @ 4100' MD
Cement Top :	1800' MD (Estimated)
Cement :	260 Sks of Class A at 14.7 ppg, Yield = 1.47 + Additives. 100 sks of Class A at 15.5 ppg. Yield = 1.41
Mud Weight:	8.8 ppg

Directional Section

KOP:	2813' MD
Section for Jet Pump @ 3504' (50° Inc)	

Production Section

Hole:	6-1/8"
Depth:	8807' MD/ 3621' TVD
Casing:	4-1/2", 11.6#, N-80, LTC w/Baker Frac Point set @ 8603'
Cement :	None
Mud Weight:	8.6 ppg

ALLIED OIL & GAS SERVICES, LLC 062902

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend KS

DATE 4-1-14	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION 7:00pm	JOB START 11:00pm	JOB FINISH 1AM
LEASE Schmidt	WELL # 33-42-28-41H		LOCATION Welling Rd Bower Tw pike N Broadway 2N 1E 1/2N			COUNTY Sumner	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Nabors S
TYPE OF JOB 9 5/8 Surface
HOLE SIZE T.D.
CASING SIZE 9 5/8 DEPTH 332
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 44.15
PERFS.
DISPLACEMENT 22.25 bbls Freshwater

OWNER

EQUIPMENT

PUMP TRUCK # 394 CEMENTER Dustin Chambers
HELPER Josh Ellis
BULK TRUCK # 421-290 DRIVER William Hendley
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 220 sks Class A 3% CC

COMMON	220	@	17.90	3938.00
POZMIX		@		
GEL		@		
CHLORIDE	620.4	@	80	496.32
ASC		@		
HANDLING	231 x 2.48	@		572.88
MILEAGE	10.65 x 40 x 2.60			1107.60
			TOTAL	6114.80

REMARKS:

Pump Rat hole @ 500# Circulate for 30 min
Hook up cement pump & pump 5 bbls freshwater
Ahead mix 220 sks cement shut down
Release plug Displace 22.25 bbls
freshwater land plug pressure 700#
Release pressure insert held
plug down - 11:30 pM
Rig down

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE @
MANIFOLD @
HVM 40 @ 7.70 308
LVM 80 @ 4.40 352
TOTAL 2172.25

CHARGE TO: Source
STREET Schmidt 33-42-28-41H
CITY 10094 D STATE 830-100 ZIP 6910.19
X EXC POOR
DESCRIPTION Cement
SIGNATURE Jack Hutzenbiler DATE 4-2-14
SUPERVISOR Bill Kent

PLUG & FLOAT EQUIPMENT

1-9 5/8 Rubber Plug	@	135.00	135.00
1-9 5/8 AFU insert	@	535.00	535.00
1-9 5/8 Cuide Shoe	@	553.00	553.00
4-9 5/8 Centrilizers	@	9.00	36.00
2 Btx Thread Lock	@	65.00	130.00
		TOTAL	1389.00

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 9766.05
DISCOUNT $6910.19 - 2855.86 IF PAID IN 30 DAYS

PRINTED NAME X John Hutzenbiler

SIGNATURE X Jack Hutzenbiler

Thank You!!

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 4-1-14 District Great Bend KS Ticket No. 62902
Company Source
Lease Schmidt Rig Nabors #5
County Sumner Well No. 33-32-25-4W State KS
Location Field

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☑ Intermediate ☐ Production ☐ Liner ☐
Size 9 5/8 Type New Weight 36# Collar GRJ

Casing Depths: Top KB Bottom 332

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0773 Lin. ft./Bbl. 12.93
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Bbls/Lin. ft. Lin. ft./Bbl.
Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type: Freshwater
Amt. 5bbls Sks Yield ft³/sk Density 8.34

LEAD: Pump Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density

TAIL: Pump Time hrs. Type Class A
3:45
Excess
Amt. 220 Sks Yield 1.17 ft³/sk Density 15.6
WATER: Lead gals/sk Tail gals/sk Total

Pump Trucks Used 346 - Joss E
Bulk Equip.

Float Equip: Manufacturer
Shoe: Type Guide Shoe Depth
Float: Type Depth
Centralizers: Quantity 4 Plugs Top Rubber Btm.
Stage Collars
Special Equip. AFU insert 2 Row Thread Lock
Disp. Fluid Type Freshwater Amt. Bbls. Weight 8.34 PPG
Mud Type Native Weight 9.2 PPG

COMPANY REPRESENTATIVE CEMENTER Dustin C

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	PRESSURES PSI ANNULUS	FLUID PUMPED DATA TOTAL FLUID	FLUID PUMPED DATA Pumped Per Time Period	FLUID PUMPED DATA RATE Bbls Min.	REMARKS
						On location - Rig up Had safety meeting
						Run 9 5/8 casing
						Break circulation with Rig Pump
						PSI Ball pump thru @ 500 #
				5bbls		Pick up cement pump
						pump 5 bbls Freshwater ahead
			74.60	66.60		Mix 220 sks cement
						Shut Down & Release plug
			93.85	22.25		Displace 22.25 bbls Freshwater
						Land plug Pressure 700 #
						plug Down 11:30 pm
						Release pressure insert held
						Removed Head
						Rig Down

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

ALLIED OIL & GAS SERVICES, LLC 062747

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medlodge KS

DATE 4/6/14	SEC. 33	TWP. 42	RANGE 28	CALLED OUT 4/5/14 930 PM	ON LOCATION 4/6/14 130 AM	JOB START 700 AM	JOB FINISH 1130 AM
LEASE Schaidt	WELL # 4-1H		LOCATION Wellington KS, East on 160 to Broadway,			COUNTY Sumner	STATE KS
OLD OR (NEW) (Circle one)			North to 30, East 1 mile, North ½ mi, West into				

CONTRACTOR Nabors
TYPE OF JOB Intermediate
HOLE SIZE 8¾ T.D. 4126
CASING SIZE 7 DEPTH 4104
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 4000 MINIMUM
MEAS. LINE SHOE JOINT 44
CEMENT LEFT IN CSG. 44
PERFS.
DISPLACEMENT 159½ BBL Fresh H_2O

OWNER Source Energy

EQUIPMENT

PUMP TRUCK #558/555 CEMENTER Jason Thimesch
HELPER Scott Priddy
BULK TRUCK #819/823 DRIVER James Bowen
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 360sx ClassA +.6% FL-160 +.15% C-45 +3% Salt +5# Kolseal 12 BBLs ASF

COMMON ClassA	360sx	@ 17.90	6444.00
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
FL-160	162 ~~325~~ lbs	@ 18.90	3061.80
C-45	22 lbs	@ 3.47	76.34
Salt	7 ~~14~~ sx	@ 26.35	184.45
Kolseal	1150 lbs	@ 0.98	1127.00
~~Flo Seal~~	~~175~~ lbs	@	
ASF	12BBL	@ 58.70	704.40
Circ iron		@	450.00
HANDLING	416.37 cuft	@ 2.48	1032.59
MILEAGE	738.18 tons/miles ~~sx~~	x 2.60	1919.27
		TOTAL	14999.85

WELL NAME Schmidt REMARKS: 33-42-28-4/H
WellAFE# 100340
GL ACCT 830.100 AMT $ 17,291.05
GL ACCT AMT $
EXCELLENT X GOOD FAIR POOR
DESCRIPTION CEMENT 7" INTERMEDIATE + Test Casing & PACKOFF TE 4644
SIGNATURE BK
SUPERVISOR

SERVICE

DEPTH OF JOB 4104
PUMP TRUCK CHARGE 2558.75
EXTRA FOOTAGE @
MILEAGE 40 mi @ 7.70 308.00
MANIFOLD @ 275.00
LV 40 mi @ 4.40 176.00
Misc Pump Charge @ 2915.00
TOTAL 6232.75

CHARGE TO: Source Energy
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

7"

Rubber Plug	1	@	99.45
Sure Seal Float Shoe	1	@	712.53
Sure Seal Float Collar	1	@	886.86
Spiral Gliders	6	@ 158.12	948.72
Centralizers	10	@ 66.52	655.20
Thread Lock Kit	2	@ 83.07	166.14
		TOTAL	3468.90

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE

SALES TAX (If Any)
TOTAL CHARGES 24701.50
DISCOUNT IF PAID IN 30 DAYS
Net 17,291.05

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 4/6/14 District Med Lodge KS Ticket No. 62747
Company Source Energy Rig Nabor
Lease Schmidt Well No. 4-1H
County Sumner State KS
Location Vic Wellington KS Field 33-42-28

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☐ Intermediate ☑ Production ☐ Liner ☐
Size 7 Type _____ Weight 23 Collar _____

Casing Depths: Top _____ Bottom 4164

Drill Pipe: Size _____ Weight _____ Collars _____
Open Hole: Size 8 3/4 T.D. 4126 ft. P.B. to _____ ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0394 Lin. ft./Bbl. _____
Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbls/Lin. ft. .0268 Lin. ft./Bbl. _____
Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
Spacer Type: ASF 12 BBL
Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type Class A+.6%FL-160+.15%C-45+3%SaltH+5#Kolseal Excess _____
Amt. 260 Sks Yield 1.44 ft³/sk Density 14.48 PPG
TAIL: Pump Time _____ hrs. Type Class A+.6%FL-160+.15%C-45+3%Salt+5#Kolseal Excess _____
Amt. 100 Sks Yield 1.19 ft³/sk Density 15.7 PPG
WATER: Lead 6.38 gals/sk Tail 4.5 gals/sk Total _____ Bbls.

Pump Trucks Used 558/555
Bulk Equip. 819/823

Float Equip: Manufacturer _____
Shoe: Type Sure Seal Shoe Depth _____
Float: Type Sure Seal Collar Depth _____
Centralizers: Quantity _____ Plugs Top _____ Btm. _____
Stage Collars _____
Special Equip. _____
Disp. Fluid Type Fresh Amt. _____ Bbls. Weight _____ PPG
Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Barry CEMENTER Jason Thimesch

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
130AM						Arrive on loc, Safety meeting, running casing
530AM						On Bottom start circ hole
530AM						Rig down casers, rig up cement
600AM						Safety meeting, Spot in, rig up
708AM	3500		1/4 BBL		1/4	Press test
710AM	300		12BBL		5 1/2	Pump Preflush
720AM	400		67BBL		5 1/2	Mix + Pump Ld cement slurry Est TOC 869'
	200		21BBL		5 1/2	Mix + Pump TL cement Slurry Est TOC 3357'
755AM						Shut down, Release Plug
757AM			100		6	Start Displacement
	200		90BBL		~~200~~ 3 1/2	Lift Press Slow rate
	1100		150BBL		3	Slow to Bump Plug
846AM	1700		159 1/2 BBL		0	Bump Plug, hold 5 min
						Release Float did hold
900AM						Tool hand Prep
1045AM						Rig up to BS for Press test
1053AM	4000		1/4		1/4	Pressest to 4000 hold 5min
						Remove Plug
1120AM	3000		2BBL		1/2	Press test casing to 3000 Hold 5min

FINAL DISP. PRESS: 1100 PSI BUMP PLUG TO 1700 PSI BLEEDBACK 1 BBLS. THANK YOU