Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1158079

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) 763-3689
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 #:

09/11/2013 — Spud Date or Recompletion Date
10/3/2013 — Date Reached TD
10/18/2013 — Completion Date or Recompletion Date

API No. 15 - 15-191-22690-01-00
Spot Description: 37.175833,-97.276118
SW NE SE SE Sec. 14 Twp. 33 S. R. 1 ☑ East ☐ West
702 Feet from ☐ North / ☑ South Line of Section
414 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: Source Well #: 14-44-23-44H
Field Name: Unknown
Producing Formation: Mississipian
Elevation: Ground: 1146 Kelly Bushing: 20
Total Vertical Depth: 3707 Plug Back Total Depth: 8927
Amount of Surface Pipe Set and Cemented at: 300 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: 12/31/2013
☑ **Confidential Release Date:** 12/31/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/10/2014

[redacted] 1158079

Operator Name: Source Energy MidCon LLC Lease Name: Source Well #: 14-44-23-44H

Sec. 14 Twp. 33 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:

see attached

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

Name	Top	Datum
Mississipian	3465	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	308	class A	165	
intermediate	8.75	7	23	4089	class A	275	
production	6.1250	4.5	6	9000	class H	399	

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
0	see attached	see attached	see attached

TUBING RECORD: Size: 4.5 Set At: 3815 Packer At:

Liner Run: ☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 11/02/2013

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:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Source Energy MidCon LLC
Well Name	Source 14-44-23-44H
Doc ID	1158079

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	308	class A	165	
intermediate	8.75	7	23	4089	class A	275	
production	6.1250	4.5	6	9000	class H	399	

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

Last Fracture Date:	**10/15/2013**
County:	Sumner
API Number (14 Digits):	15-191-22690-00-00
Operator Name:	Source Energy MidCon LLC
Well Name and Number:	SOURCE 14-44-23-44H
Latitude:	37.175833
Longitude:	-97.276118
Datum:	NAD27
Production Type:	OIL
True Vertical Depth (TVD):	3693
Total Base Fluid Volume (gal)*:	1,120,518

Kansas Corporation Commission

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)	CJES	Proppant	Silica Substrate	1408-60-7	100.00%	***5.22303%***	
FGP-912	CJES	Gelling Agent	Petroleum Distillate Blend	64742-96-7	60.00%	***0.12502%***	
BR-31	CJES	Sodium Persulfate	Peroxydisulfuric Acid Disodium Salt	7775-27-1	100.00%	***0.06579%***	
Gelbreak-EL2X	CJES	Liquid Enzyme Breaker	Cellulase Enzyme Proprietary	TRADE SECRET	100.00%	***0.00160%***	C&J Energy Services, 10375 Richmond Ave. Suite 1910, Houston, TX 77042 713-260-5407
Bioguard 4450	Bioguard	Biocide	Sodium Hydroxide	7173-51-5	100.00%	***0.02056%***	
FR-1	CJES	Friction Reducer	Petroleum Distillate	64742-47-8	100.00%	***0.08524%***	
CI-1	CJES	Acid Corrosion Inhibitor	Methanol	67-56-1	100.00%	***0.00395%***	
ICA-1	CJES	Iron Control Agent	Hydrochloric Acid	7647-01-0	40.00%	***0.00266%***	
Hydrochloric Acid (15%)	CJES	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	***0.18362%***	
SU-15	CJES	Surfactant	Methanol	67-56-1	70.00%	***0.05646%***	
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).

CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 43892
LOCATION #180 El Dorado
FOREMAN Jacob Storm

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

FIELD TICKET & TREATMENT REPORT
CEMENT Api 15-191-22690-01-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-11-13	7698	Source # 14-44-23-44H	14	33 S	1E	Sumner

CUSTOMER: Source Energy
MAILING ADDRESS: 1805 Shea center Dr Ste 100
CITY: Highlands Ranch | STATE: CO | ZIP CODE: 80129

Safty meeting JB JM JG

TRUCK #	DRIVER	TRUCK #	DRIVER
446	Josh		
681	Jeramy M		
702	Jacob		

JOB TYPE Surface B | HOLE SIZE 12 1/4 | HOLE DEPTH | CASING SIZE & WEIGHT 9 5/8
CASING DEPTH | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.3 lb | SLURRY VOL 39.58 | WATER gal/sk 5.7 | CEMENT LEFT in CASING 35'
DISPLACEMENT 25.19 | DISPLACEMENT PSI 500 | MIX PSI 300 | RATE 5.5 bpm

REMARKS: Safty meeting, circulate hole with mud for 30 min, test pump and lines to psi, pump 10 bbl water flush, mix 165 sks class A 3% cc 2% gel 1/4 lb poly-Flake, displaced with bbl landing plug at psi, Check

WELL NAME 14-44-23-44H
Well/AFE 100320
GL ACCT 830.015
GL AC
E
DESCR Cement Surf
$535.00
FOOT

SIGNATURE DJ Moore DATE 10/3/13
SUPERVISOR

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 S	1	PUMP CHARGE		
5406	68	MILEAGE		
5407 A	68	x 7.75 ton mileage	X	
1104 S	165	class A		
1102	400	calcium chloride		
1118 B	350	gel		
1107	50	poly-Flake		
4133	5	9 5/8 centralizer		
4167	1	9 5/8 Float Shoe (Sure seal)		
4306	1	8 tread loaf		
4310	1	9 5/8 Lock Ring		
4433	1	9 5/8 wooden plug		
5404	8	personnel Std by X 3 men		
5614	1	Climbing Fee		

Redacted Prices

SALES TAX
ESTIMATED TOTAL

Ravin 3737

2624621

AUTHORIZTION DJ Moore TITLE DATE

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.

CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 43896
LOCATION 180 ElDorado
FOREMAN Jacob Storm

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

FIELD TICKET & TREATMENT REPORT
CEMENT

API 15-191-22690-0-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-17-13	7698	Source # N-44-23-44H	14	33	1E	Sumner

CUSTOMER: Source energy
MAILING ADDRESS: 1805 Shea center Dr Ste 100
CITY: Highlands Ranch | STATE: CO | ZIP CODE: 80129

18
dg
JD
Jm

TRUCK #	DRIVER	TRUCK #	DRIVER
496	Josh		
502	Jeramy M		
681	Jerid		
702	Jacob		

JOB TYPE Long String B | HOLE SIZE 7 7/8 | HOLE DEPTH 4118 ? | CASING SIZE & WEIGHT 5 1/2"
CASING DEPTH 4115.52 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.5 | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 42 ft shoe
DISPLACEMENT 159 Bbl | DISPLACEMENT PSI 250 | MIX PSI 300 | RATE 6 bpm

REMARKS: Safty meeting, pump 5bbl water 500gal dye 1100, 5bbl water mix 175 sks Class A 3% gel 2% cc 5# kol-seal, dnsty 14.3 to 14.5 ppg, tail with 100 sks class A 3% gel 2% cc 5# kol-seal at 15.4 to 15.6 ppg displaced with 159 bbl water landing plug at 1500 psi Held for 10 min check float, float held.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	Redacted	
5406	74	MILEAGE		
5407A	74	X 13 ton mileage X		
5402	2500	footage		
1104S	275	class A		
1102	480	Calcium chloride		
1118B	850	gel		
1110A	1400	Kol-seal		
4409	1	7" top plug		
5614	1	climbing fee		

WELL NAME 14-44-23-44H
Well/AFE# 100522-D
GL ACCT 830.100
GL ACCT
EXP
DESCRIP Cement Intermediate
SIGNATURE Barry Bter DATE 9-17-13
SUPERVISOR Jc

SALES TA
ESTIMATED TOTAL

Ravin 3737

262497

AUTHORIZTION Barry Bter TITLE Drilling Supervisor DATE

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

Service Contract Receipt
SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number: CDL7-00393

Mailing Address: SOURCE ENERGY PARTNERS L.P. 1805 SHEA CENTER DR., STE 100 HIGHLANDS RANCH CO 80129 UNITED STATES	**Left District**	Date: 04-Oct-2013	Time: 5:00 AM
	Arrive Location	Date: 04-Oct-2013	Time: 9:00 AM
	Start Job	Date: 04-Oct-2013	Time: 11:00 AM
	Complete Job	Date: 04-Oct-2013	Time: 2:00 PM
	Leave Location	Date: 04-Oct-2013	Time: 3:00 PM
	Arrived District	Date: 04-Oct-2013	Time: 7:00 PM
	Service Description	Cementing Primary, Primary Liner	

Customer PO	**Contract**	**Well Name & Number** SOURCE 14-44-23 44H	**Field**
AFE	**Cust Ref**	**County / Parish / Block / Borough** Wallace	**State / Province** KS
Customer or Authorized Representative Barry		**Schlumberger Location** El Reno, OK	**Legal Location**
API / UWI	**Pricebook** ARDX / WSV_GEOREF_USL_2009_USD_v1		**Rig** NABORS 113

Service Instructions:

To provide services, equipment, personnel and materials to safely cement a 4 1/2" liner as per client request.
Pump 10 bbl fresh water, 20 bbl CW100, 399 sks single system slurry @13.5ppg, drop wiper dart, and displace as per client approval.

PRICE Redacted

THE ESTIMATED CHARGES AND DATA SHOWN ABOVE ARE SUBJECT TO CORRECTION BY SCHLUMBERGER.

THE SERVICES, EQUIPMENT, MATERIALS AND/OR PRODUCTS PROVIDED BY THIS SERVICE CONTRACT RECEIPT HAVE BEEN PERFORMED OR RECEIVED AS SET FORTH ABOVE.

Signature of Customer or Authorized Representative:

Barry — Date

Signature of Schlumberger Representative:

Rachel Hart — Date

SourceEnergy

Well: Source 14-44-23-44H
Location: Sec. 14 - T33S - R1E
Rig: Nabors Rig #113

Declination Corr.: 4.14 degrees
Grid Corr.:
Total Corr.:

Calculation Method: Minimum Curvature
Proposed Azimuth: 180 From True North
Depth Reference: 20.5
Tie Into: GL 1146'

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In Coordinates													
Surface	0	0.00	0		0	0							
MWD	21	0.00	0		21	0							
MWD	100	1.51	0	80	100	-1.05	1.05 N	0.00 E	1.05	0.00	1.90	1.90	0.00
MWD	200	1.01	0	100	200	-3.25	3.25 N	0.00 E	3.25	0.00	0.50	-0.50	0.00
Surface Casing 9-5/8" Set @ +/- 308' KB	312	1.20	0	112	312	-5.41	5.41 N	0.00 E	5.41	0.00	0.17	0.17	0.00
MWD	360	0.29	74	48	360	-5.94	5.94 N	0.12 E	5.94	1.13	2.41	-1.90	154.52
MWD	450	0.36	90	90	450	-6.00	6.00 N	0.62 E	6.03	5.88	0.13	0.08	17.84
MWD	542	0.10	225	92	542	-5.95	5.95 N	0.85 E	6.01	8.14	0.47	-0.28	146.87
MWD	635	0.28	278	93	635	-5.92	5.92 N	0.57 E	5.95	5.48	0.25	0.19	56.13
MWD	727	0.20	296	92	727	-6.02	6.02 N	0.20 E	6.02	1.91	0.12	-0.09	20.50
MWD	821	0.06	73	94	821	-6.11	6.11 N	0.10 E	6.11	0.95	0.26	-0.15	-238.15
MWD	913	0.10	36	92	913	-6.19	6.19 N	0.19 E	6.19	1.80	0.07	0.04	-39.88
MWD	1005	0.10	150	92	1005	-6.18	6.18 N	0.28 E	6.19	2.61	0.18	0.00	123.63
MWD	1098	0.06	107	93	1098	-6.10	6.10 N	0.37 E	6.11	3.46	0.07	-0.04	-45.45
MWD	1191	0.07	118	93	1191	-6.06	6.06 N	0.47 E	6.08	4.40	0.02	0.01	10.96
MWD	1283	0.10	280	92	1283	-6.04	6.04 N	0.44 E	6.06	4.13	0.18	0.03	176.49
MWD	1376	0.04	40	93	1376	-6.08	6.08 N	0.38 E	6.10	3.55	0.13	-0.06	-258.29
MWD	1467	0.07	266	91	1467	-6.10	6.10 N	0.34 E	6.11	3.21	0.11	0.03	248.57
MWD	1560	0.07	259	93	1560	-6.09	6.09 N	0.23 E	6.09	2.16	0.01	0.00	-7.77
MWD	1653	0.07	33	93	1653	-6.13	6.13 N	0.21 E	6.13	1.92	0.14	0.00	-242.24
MWD	1744	0.09	254	91	1744	-6.15	6.15 N	0.17 E	6.15	1.56	0.16	0.02	242.77
MWD	1836	0.10	345	92	1836	-6.21	6.21 N	0.08 E	6.21	0.71	0.15	0.01	98.20
MWD	1928	0.07	331	92	1928	-6.34	6.34 N	0.03 E	6.34	0.25	0.04	-0.03	-14.85
MWD	2023	0.11	6	95	2023	-6.48	6.48 N	0.01 E	6.48	0.08	0.07	0.04	-342.40
MWD	2118	0.09	89	95	2118	-6.57	6.57 N	0.09 E	6.57	0.81	0.14	-0.02	87.22
MWD	2212	0.09	141	94	2212	-6.52	6.52 N	0.21 E	6.52	1.87	0.08	0.00	55.65
MWD	2307	0.03	270	95	2307	-6.46	6.46 N	0.24 E	6.46	2.09	0.12	-0.06	135.77
MWD	2402	0.10	112	95	2402	-6.43	6.43 N	0.29 E	6.43	2.56	0.14	0.07	-166.05
MWD	2497	0.10	130	95	2497	-6.34	6.34 N	0.43 E	6.36	3.86	0.03	0.00	18.65
MWD	2591	0.18	47	94	2591	-6.39	6.39 N	0.60 E	6.42	5.34	0.21	0.09	-88.60
MWD	2686	0.15	142	95	2686	-6.40	6.40 N	0.78 E	6.44	6.97	0.26	-0.03	100.85
MWD	2781	0.28	141	95	2781	-6.12	6.12 N	1.00 E	6.20	9.32	0.14	0.14	-1.09
MWD	2875	0.35	147	94	2875	-5.70	5.70 N	1.30 E	5.84	12.90	0.08	0.07	5.67
MWD	2970	0.07	326	95	2970	-5.50	5.50 N	1.43 E	5.69	14.59	0.44	-0.29	189.00
Kick Off Point @ 3033' MD	3033	0.50	167	63	3033	-5.27	5.27 N	1.47 E	5.47	15.61	0.90	0.68	-252.29
MWD	3064	2.50	175	31	3,064	-4.46	4.46 N	1.56 E	4.73	19.30	6.47	6.45	24.35
MWD	3096	3.87	175	32	3,096	-2.69	2.69 N	1.72 E	3.19	32.61	4.28	4.28	0.44
MWD	3128	5.74	174	32	3,128	-0.02	0.02 N	1.98 E	1.98	89.34	5.85	5.84	-2.81
MWD	3159	9.21	175	31	3,158	3.99	3.99 S	2.36 E	4.64	149.45	11.20	11.19	3.48
MWD	3191	13.66	178	32	3,190	10.32	10.32 S	2.72 E	10.68	165.22	14.00	13.91	8.19
MWD	3223	16.75	178	32	3,221	18.71	18.71 S	3.04 E	18.95	170.78	9.66	9.66	0.72
MWD	3254	18.92	178	31	3,250	28.20	28.20 S	3.36 E	28.40	173.21	7.00	7.00	0.77
MWD	3286	21.56	179	32	3,280	39.26	39.26 S	3.63 E	39.43	174.71	8.28	8.25	2.09
MWD	3317	23.53	180	31	3,309	51.15	51.15 S	3.78 E	51.29	175.77	6.43	6.35	2.52
MWD	3349	25.78	180	32	3,338	64.49	64.49 S	3.80 E	64.61	176.63	7.07	7.03	1.75
MWD	3380	28.59	182	31	3,366	78.65	78.65 S	3.56 E	78.73	177.41	9.31	9.06	4.68
MWD	3412	31.41	183	32	3,393	94.64	94.64 S	2.95 E	94.69	178.21	8.95	8.81	3.09

SourceEnergy

Well: Source 14-44-23-44H
Location: Sec. 14 - T33S - R1E
Rig: Nabors Rig #113

Declination Corr.: 4.14 degrees
Grid Corr.:
Total Corr.:

Calculation Method: Minimum Curvature
Proposed Azimuth: 180 From True North
Depth Reference: 20.5
Tie Into: GL 1146'

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
MWD	3444	33.82	183	32	3,420	111.86	111.86 S	2.05 E	111.88	178.95	7.62	7.53	2.13
Top of Miss at 3465' TVD KB	**3475**	**36.30**	**185**	**31**	**3,446**	**129.62**	**129.62 S**	**0.74 E**	**129.62**	**179.67**	**8.60**	**8.00**	**5.48**
MWD	3,507	39.31	186	32	3,470.85	149.14	149.14 S	1.14 W	149.14	180.44	9.57	9.41	2.84
MWD	**3,538**	**43.11**	**187**	**31**	**3,494.17**	**169.42**	**169.42 S**	**3.49 W**	**169.46**	**181.18**	**12.56**	**12.26**	**4.13**
MWD	3,570	46.53	187	32	3,516.86	191.80	191.80 S	6.31 W	191.90	181.88	10.69	10.69	-0.22
MWD	**3,601**	**49.63**	**187**	**31**	**3,537.57**	**214.69**	**214.69 S**	**9.09 W**	**214.89**	**182.42**	**10.06**	**10.00**	**-1.42**
MWD	3,633	52.52	186	32	3,557.68	239.44	239.44 S	11.76 W	239.73	182.81	9.41	9.03	-3.41
MWD	**3,664**	**55.25**	**185**	**31**	**3,575.95**	**264.38**	**264.38 S**	**14.08 W**	**264.75**	**183.05**	**8.93**	**8.81**	**-1.81**
MWD	3,696	58.97	184	32	3,593.32	291.16	291.16 S	16.20 W	291.61	183.18	11.97	11.63	-3.38
MWD	**3,728**	**62.57**	**182**	**32**	**3,608.94**	**319.04**	**319.04 S**	**17.67 W**	**319.53**	**183.17**	**12.34**	**11.25**	**-5.81**
MWD	3,759	66.55	181	31	3,622.26	347.01	347.01 S	18.49 W	347.51	183.05	13.09	12.84	-2.84
ESP Placement 100' Tangent Section	**3,791**	**70.39**	**181**	**32**	**3,634.00**	**376.77**	**376.77 S**	**19.05 W**	**377.25**	**182.89**	**12.04**	**12.00**	**-1.03**
Liner Top @ 3815' MD / 3640' TVD	3,823	70.78	181	32	3,644.64	406.95	406.95 S	19.44 W	407.41	182.73	1.56	1.22	-1.03
MWD	**3,854**	**70.72**	**180**	**31**	**3,654.86**	**436.21**	**436.21 S**	**19.61 W**	**436.65**	**182.57**	**1.57**	**-0.19**	**-1.65**
MWD	3,885	71.36	180	31	3,664.93	465.53	465.53 S	19.59 W	465.94	182.41	2.17	2.06	-0.71
MWD	**3,917**	**75.67**	**179**	**32**	**3,674.01**	**496.21**	**496.21 S**	**19.29 W**	**496.58**	**182.23**	**13.68**	**13.47**	**-2.50**
MWD	3,949	78.79	179	32	3,681.08	527.41	527.41 S	18.69 W	527.74	182.03	9.79	9.75	-0.88
MWD	**3,980**	**81.88**	**178**	**31**	**3,686.28**	**557.95**	**557.95 S**	**17.95 W**	**558.24**	**181.84**	**10.02**	**9.97**	**-1.06**
MWD	4,011	85.56	178	31	3,689.67	588.75	588.75 S	17.08 W	589.00	181.66	11.88	11.87	-0.39
MWD	**4,043**	**89.4**	**178.2**	**32**	**3,691.10**	**620.70**	**620.70 S**	**16.12 W**	**620.91**	**181.49**	**11.85**	**11.84**	**-0.25**
MWD	4,067	90.0	178.2	24	3,691.24	644.69	644.69 S	15.37 W	644.87	181.37	2.51	2.50	-0.25
Intermediate Casing 7" Set @ +/- 4089' KB	**4,075**	**90.0**	**178.2**	**8**	**3,691.25**	**652.68**	**652.68 S**	**15.12 W**	**652.86**	**181.33**	**0.67**	**0.62**	**0.25**
MWD	4,109	90.6	177.3	34	3,691.08	686.65	686.65 S	13.77 W	686.79	181.15	3.18	1.62	-2.74
MWD	**4,117**	**90.4**	**177.5**	**8**	**3,691.01**	**694.65**	**694.65 S**	**13.41 W**	**694.77**	**181.11**	**2.89**	**-1.37**	**2.54**
MWD	4,201	89.3	179.6	84	3,691.21	778.61	778.61 S	11.26 W	778.69	180.83	2.88	-1.37	2.53
MWD	**4,294**	**92.7**	**179.1**	**93**	**3,689.56**	**871.58**	**871.58 S**	**10.21 W**	**871.64**	**180.67**	**3.75**	**3.71**	**-0.54**
MWD	4,387	92.3	180.3	93	3,685.49	964.48	964.48 S	9.70 W	964.53	180.58	1.35	-0.49	1.26
MWD	**4,480**	**89.5**	**179.2**	**93**	**3,684.06**	**1,057.46**	**1,057.46 S**	**9.27 W**	**1,057.50**	**180.50**	**3.22**	**-3.01**	**-1.14**
MWD	4,571	88.3	176.5	91	3,685.80	1,148.37	1,148.37 S	5.89 W	1,148.39	180.29	3.21	-1.26	-2.96
MWD	**4,664**	**90.1**	**179.7**	**93**	**3,687.06**	**1,241.30**	**1,241.30 S**	**2.78 W**	**1,241.30**	**180.13**	**3.88**	**1.92**	**3.37**
MWD	4,757	89.4	178.7	93	3,687.47	1,334.28	1,334.28 S	1.42 W	1,334.28	180.06	1.31	-0.80	-1.04
MWD	**4,848**	**89.7**	**176.4**	**91**	**3,688.20**	**1,425.19**	**1,425.19 S**	**2.45 E**	**1,425.19**	**179.90**	**2.48**	**0.34**	**-2.46**
MWD	4,940	90.9	176.4	92	3,687.74	1,517.01	1,517.01 S	8.21 E	1,517.03	179.69	1.31	1.30	-0.07
MWD	**5,032**	**90.1**	**177.1**	**92**	**3,686.93**	**1,608.85**	**1,608.85 S**	**13.47 E**	**1,608.91**	**179.52**	**1.12**	**-0.84**	**0.75**
MWD	5,126	91.1	177.4	94	3,685.92	1,702.74	1,702.74 S	18.01 E	1,702.83	179.39	1.11	1.05	0.34
MWD	**5,220**	**86.0**	**180.1**	**94**	**3,688.27**	**1,796.65**	**1,796.65 S**	**20.08 E**	**1,796.76**	**179.36**	**6.13**	**-5.41**	**2.87**
MWD	5,315	88.5	179.8	95	3,692.82	1,891.53	1,891.53 S	20.18 E	1,891.64	179.39	2.62	2.60	-0.32
MWD	**5,408**	**88.0**	**178.9**	**93**	**3,695.67**	**1,984.48**	**1,984.48 S**	**21.27 E**	**1,984.59**	**179.39**	**1.13**	**-0.53**	**-1.00**
MWD	5,503	91.9	178.8	95	3,695.77	2,079.44	2,079.44 S	23.20 E	2,079.57	179.36	4.08	4.08	-0.05
MWD	**5,598**	**88.3**	**178.5**	**95**	**3,695.65**	**2,174.40**	**2,174.40 S**	**25.44 E**	**2,174.55**	**179.33**	**3.81**	**-3.80**	**-0.34**
MWD	5,692	90.2	179.6	94	3,696.94	2,268.37	2,268.37 S	27.02 E	2,268.53	179.32	2.31	2.00	1.16
MWD	**5,787**	**90.1**	**180.1**	**95**	**3,696.72**	**2,363.37**	**2,363.37 S**	**27.30 E**	**2,363.53**	**179.34**	**0.53**	**-0.03**	**0.53**
MWD	5,881	89.9	180.3	94	3,696.72	2,457.37	2,457.37 S	27.03 E	2,457.52	179.37	0.32	-0.26	0.19
MWD	**5,976**	**89.6**	**180.2**	**95**	**3,697.12**	**2,552.37**	**2,552.37 S**	**26.69 E**	**2,552.51**	**179.40**	**0.29**	**-0.26**	**-0.12**
MWD	6,094	90.8	180.3	118	3,696.71	2,670.36	2,670.36 S	26.27 E	2,670.49	179.44	0.97	0.97	0.08
MWD	**6,187**	**92.1**	**180.5**	**93**	**3,694.37**	**2,763.33**	**2,763.33 S**	**25.67 E**	**2,763.45**	**179.47**	**1.48**	**1.45**	**0.27**
MWD	6,280	90.9	178.9	93	3,691.92	2,856.29	2,856.29 S	26.15 E	2,856.41	179.48	2.17	-1.32	-1.72

SourceEnergy

Well: Source 14-44-23-44H
Location: Sec. 14 - T33S - R1E
Rig: Nabors Rig #113

Declination Corr.: 4.14 degrees
Grid Corr.:
Total Corr.:

Calculation Method: Minimum Curvature
Proposed Azimuth: 180 From True North
Depth Reference: 20.5
Tie Into: GL 1146'

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
MWD	6,372	89.8	179.0	92	3,691.35	2,948.27	2,948.27 S	27.85 E	2,948.40	179.46	1.17	-1.16	0.09
MWD	6,465	90.0	180.3	93	3,691.48	3,041.27	3,041.27 S	28.45 E	3,041.40	179.46	1.42	0.23	1.40
MWD	6,556	89.9	180.4	91	3,691.52	3,132.27	3,132.27 S	27.95 E	3,132.39	179.49	0.16	-0.13	0.09
MWD	6,649	89.5	180.8	93	3,692.02	3,225.26	3,225.26 S	27.01 E	3,225.37	179.52	0.66	-0.46	0.47
MWD	6,742	89.7	180.5	93	3,692.72	3,318.25	3,318.25 S	25.99 E	3,318.35	179.55	0.42	0.19	-0.38
MWD	6,833	89.2	179.0	91	3,693.60	3,409.24	3,409.24 S	26.41 E	3,409.35	179.56	1.64	-0.47	-1.57
MWD	6,925	89.5	179.6	92	3,694.63	3,501.23	3,501.23 S	27.56 E	3,501.34	179.55	0.64	0.27	0.58
MWD	7,017	91.9	180.0	92	3,693.52	3,593.22	3,593.22 S	27.90 E	3,593.32	179.56	2.69	2.64	0.52
MWD	7,112	90.8	180.7	95	3,691.25	3,688.19	3,688.19 S	27.28 E	3,688.29	179.58	1.34	-1.14	0.72
MWD	7,207	89.5	180.1	95	3,690.94	3,783.18	3,783.18 S	26.60 E	3,783.27	179.60	1.50	-1.36	-0.63
MWD	7,302	90.4	180.5	95	3,690.99	3,878.18	3,878.18 S	26.10 E	3,878.27	179.61	0.99	0.91	0.41
MWD	7,396	88.2	181.1	94	3,692.11	3,972.16	3,972.16 S	24.76 E	3,972.23	179.64	2.39	-2.30	0.67
MWD	7,492	89.1	180.8	96	3,694.30	4,068.11	4,068.11 S	23.11 E	4,068.18	179.67	0.98	0.94	-0.30
MWD	7,586	90.5	180.4	94	3,694.60	4,162.11	4,162.11 S	22.07 E	4,162.16	179.70	1.50	1.44	-0.44
MWD	7,680	89.4	180.1	94	3,694.73	4,256.10	4,256.10 S	21.68 E	4,256.16	179.71	1.28	-1.21	-0.40
MWD	7,775	90.8	179.3	95	3,694.59	4,351.10	4,351.10 S	22.21 E	4,351.16	179.71	1.74	1.56	-0.78
MWD	7,870	91.0	178.7	95	3,693.11	4,446.07	4,446.07 S	23.88 E	4,446.14	179.69	0.69	0.13	-0.67
MWD	7,965	90.3	178.2	95	3,692.09	4,541.03	4,541.03 S	26.50 E	4,541.11	179.67	0.88	-0.71	-0.53
MWD	8,060	90.3	178.4	95	3,691.58	4,635.99	4,635.99 S	29.33 E	4,636.08	179.64	0.26	0.06	0.25
MWD	8,154	89.5	179.1	94	3,691.72	4,729.96	4,729.96 S	31.41 E	4,730.07	179.62	1.15	-0.91	0.69
MWD	8,250	89.6	179.3	96	3,692.49	4,825.95	4,825.95 S	32.82 E	4,826.06	179.61	0.24	0.12	0.21
MWD	8,345	89.8	180.1	95	3,693.03	4,920.94	4,920.94 S	33.32 E	4,921.06	179.61	0.93	0.16	0.92
MWD	8,439	88.9	180.8	94	3,694.12	5,014.93	5,014.93 S	32.54 E	5,015.04	179.63	1.15	-0.88	0.73
MWD	8,534	89.0	180.6	95	3,695.89	5,109.91	5,109.91 S	31.39 E	5,110.01	179.65	0.27	0.03	-0.26
MWD	8,629	89.5	181.1	95	3,697.22	5,204.89	5,204.89 S	30.03 E	5,204.98	179.67	0.74	0.53	0.53
MWD	8,723	89.9	180.9	94	3,697.77	5,298.87	5,298.87 S	28.46 E	5,298.95	179.69	0.51	0.46	-0.23
MWD	8,818	88.7	180.7	95	3,698.98	5,393.86	5,393.86 S	27.21 E	5,393.93	179.71	1.31	-1.29	-0.20
MWD	8,913	86.5	180.9	95	3,702.99	5,488.76	5,488.76 S	25.96 E	5,488.82	179.73	2.25	-2.24	0.20
MWD	8,942	86.8	179.6	29	3,704.67	5,517.71	5,517.71 S	25.83 E	5,517.77	179.73	4.30	1.07	-4.17
TD Well @ 9000' MD TVD @ 3707'	9,000	86.8	179.6	58	3,707.88	5,575.62	5,575.62 S	26.20 E	5,575.68	179.73	0.00	0.00	0.00

Source Energy MidCon, LLC
Horiz Completion (NAD27)

Source 14-44-23-44H