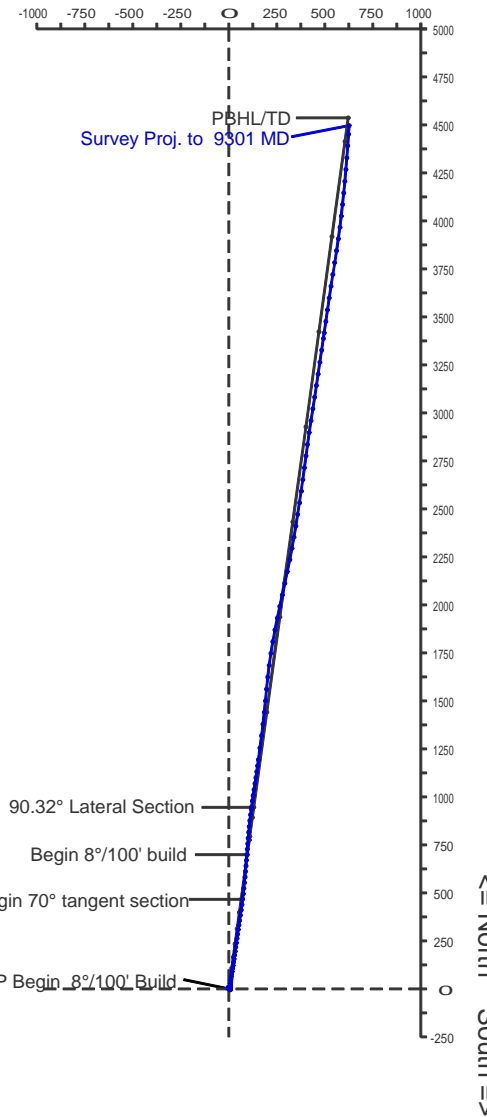


# Woolsey Operating Company, LLC

Ricke Baier #1-H

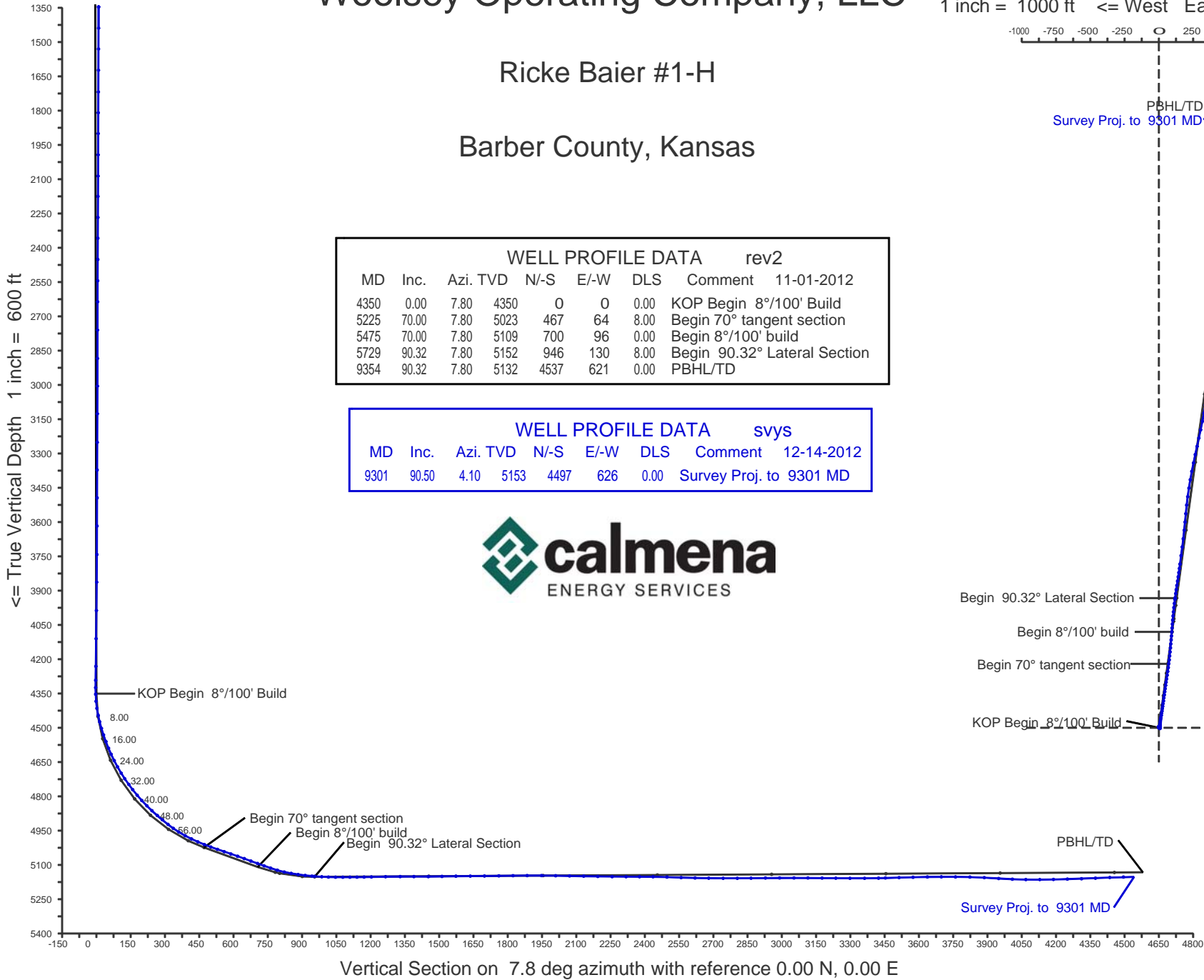
Barber County, Kansas

1 inch = 1000 ft <= West East =>



WELL PROFILE DATA rev2							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
4350	0.00	7.80	4350	0	0	0.00	KOP Begin 8°/100' Build
5225	70.00	7.80	5023	467	64	8.00	Begin 70° tangent section
5475	70.00	7.80	5109	700	96	0.00	Begin 8°/100' build
5729	90.32	7.80	5152	946	130	8.00	Begin 90.32° Lateral Section
9354	90.32	7.80	5132	4537	621	0.00	PBHL/TD

WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
9301	90.50	4.10	5153	4497	626	0.00	Survey Proj. to 9301 MD



## Calmena Energy Services

Company: Woolsey Operating Company, LLC  
 Well: Ricke Baier #1-H  
 Location: Barber County, Kansas

Date: 14-Dec-2012  
 Surveys  
 Page 1  
 Job# : 6855

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 7.80° Az (feet)	Grid Y	Grid X	Comments
<b>Surface Location</b>								<b>166745.00</b>	<b>1920975.00</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	166745.00	1920975.00	
970.00	0.70	19.60	969.98	5.58	1.99	0.07	5.80	166750.58	1920976.99	
1002.00	0.70	20.30	1001.97	5.95	2.12	0.03	6.18	166750.95	1920977.12	
1063.00	0.80	17.30	1062.97	6.71	2.38	0.18	6.97	166751.71	1920977.38	
1158.00	0.90	26.80	1157.96	8.00	2.91	0.18	8.33	166753.00	1920977.91	
1252.00	0.60	350.20	1251.95	9.15	3.16	0.59	9.49	166754.15	1920978.16	
1346.00	0.30	253.70	1345.95	9.56	2.84	0.75	9.86	166754.56	1920977.84	
1439.00	0.40	250.00	1438.95	9.39	2.30	0.11	9.61	166754.39	1920977.30	
1530.00	0.40	257.20	1529.94	9.21	1.69	0.06	9.35	166754.21	1920976.69	
1623.00	0.50	256.90	1622.94	9.04	0.98	0.11	9.09	166754.04	1920975.98	
1718.00	0.50	251.40	1717.94	8.82	0.18	0.05	8.76	166753.82	1920975.18	
1809.00	0.40	255.50	1808.94	8.61	-0.50	0.12	8.46	166753.61	1920974.50	
1900.00	0.40	248.60	1899.93	8.41	-1.10	0.05	8.19	166753.41	1920973.90	
1993.00	0.40	239.50	1992.93	8.13	-1.68	0.07	7.83	166753.13	1920973.32	
2086.00	0.50	236.10	2085.93	7.74	-2.30	0.11	7.36	166752.74	1920972.70	
2175.00	0.30	243.50	2174.93	7.42	-2.83	0.23	6.97	166752.42	1920972.17	
2267.00	0.20	208.00	2266.93	7.17	-3.12	0.20	6.68	166752.17	1920971.88	
2358.00	0.30	135.60	2357.92	6.86	-3.03	0.34	6.39	166751.86	1920971.97	
2451.00	0.40	137.70	2450.92	6.45	-2.64	0.11	6.03	166751.45	1920972.36	
2544.00	0.30	123.50	2543.92	6.07	-2.22	0.14	5.71	166751.07	1920972.78	
2636.00	0.30	128.90	2635.92	5.79	-1.83	0.03	5.49	166750.79	1920973.17	
2760.00	0.20	131.70	2759.92	5.44	-1.42	0.08	5.20	166750.44	1920973.58	
2884.00	0.10	160.00	2883.92	5.19	-1.22	0.10	4.98	166750.19	1920973.78	
3005.00	0.20	180.60	3004.92	4.88	-1.19	0.09	4.68	166749.88	1920973.81	
3126.00	0.30	140.70	3125.92	4.43	-0.99	0.16	4.25	166749.43	1920974.01	
3251.00	0.30	147.00	3250.91	3.90	-0.60	0.03	3.78	166748.90	1920974.40	
3372.00	0.40	120.10	3371.91	3.42	-0.06	0.16	3.38	166748.42	1920974.94	
3494.00	0.30	126.80	3493.91	3.02	0.56	0.09	3.07	166748.02	1920975.56	
3617.00	0.40	116.10	3616.91	2.64	1.20	0.10	2.77	166747.64	1920976.20	
3742.00	0.60	131.20	3741.90	2.01	2.09	0.19	2.28	166747.01	1920977.09	

## Calmena Energy Services

Company: Woolsey Operating Company, LLC  
 Well: Ricke Baier #1-H  
 Location: Barber County, Kansas

Date: 14-Dec-2012  
 Surveys  
 Page 2  
 Job# : 6855

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 7.80° Az (feet)	Grid Y	Grid X	Comments
3863.00	0.90	136.30	3862.89	0.91	3.22	0.25	1.34	166745.91	1920978.22	
3987.00	0.80	145.10	3986.88	-0.51	4.39	0.13	0.09	166744.49	1920979.39	
4110.00	0.80	136.70	4109.87	-1.84	5.47	0.10	-1.08	166743.16	1920980.47	
4231.00	0.80	155.60	4230.86	-3.22	6.40	0.22	-2.32	166741.78	1920981.40	
4292.00	0.70	167.40	4291.85	-3.97	6.66	0.30	-3.03	166741.03	1920981.66	
4324.00	0.40	169.30	4323.85	-4.27	6.72	0.94	-3.32	166740.73	1920981.72	
4353.00	1.60	12.90	4352.85	-3.98	6.83	6.80	-3.01	166741.02	1920981.83	
4384.00	4.90	5.50	4383.79	-2.24	7.05	10.71	-1.26	166742.76	1920982.05	
4415.00	8.80	2.90	4414.56	1.45	7.30	12.62	2.43	166746.45	1920982.30	
4446.00	11.70	0.80	4445.07	6.96	7.46	9.43	7.91	166751.96	1920982.46	
4475.00	14.00	0.80	4473.34	13.41	7.55	7.93	14.31	166758.41	1920982.55	
4505.00	16.40	2.90	4502.29	21.27	7.82	8.21	22.14	166766.27	1920982.82	
4535.00	18.60	4.60	4530.90	30.27	8.42	7.53	31.13	166775.27	1920983.42	
4566.00	20.70	6.40	4560.09	40.65	9.42	7.05	41.55	166785.65	1920984.42	
4597.00	22.90	6.90	4588.87	52.08	10.76	7.12	53.06	166797.08	1920985.76	
4626.00	24.50	8.00	4615.43	63.64	12.27	5.72	64.71	166808.64	1920987.27	
4657.00	26.50	9.70	4643.40	76.82	14.33	6.87	78.05	166821.82	1920989.33	
4688.00	29.20	10.10	4670.81	91.08	16.82	8.73	92.53	166836.08	1920991.82	
4720.00	31.60	9.60	4698.41	107.04	19.59	7.54	108.71	166852.04	1920994.59	
4749.00	33.90	8.70	4722.80	122.53	22.08	8.11	124.39	166867.53	1920997.08	
4779.00	36.00	8.20	4747.39	139.52	24.61	7.06	141.57	166884.52	1920999.61	
4808.00	37.80	7.80	4770.58	156.77	27.03	6.26	158.98	166901.77	1921002.03	
4839.00	40.10	7.80	4794.68	176.07	29.67	7.42	178.47	166921.07	1921004.67	
4870.00	42.60	8.30	4817.95	196.35	32.54	8.13	198.95	166941.35	1921007.54	
4902.00	44.90	8.50	4841.07	218.24	35.78	7.20	221.07	166963.24	1921010.78	
4933.00	47.20	8.00	4862.58	240.32	38.98	7.51	243.39	166985.32	1921013.98	
4964.00	49.10	7.50	4883.26	263.20	42.09	6.25	266.48	167008.20	1921017.09	
4993.00	50.20	8.30	4902.04	285.10	45.13	4.34	288.58	167030.10	1921020.13	
5025.00	51.50	8.00	4922.24	309.66	48.64	4.13	313.40	167054.66	1921023.64	
5054.00	54.50	8.70	4939.69	332.57	52.01	10.52	336.55	167077.57	1921027.01	

NAD27 Ks South gr elev=1884 RKB=1896

## Calmena Energy Services

Company: Woolsey Operating Company, LLC  
 Well: Ricke Baier #1-H  
 Location: Barber County, Kansas

Date: 14-Dec-2012  
 Surveys  
 Page 3  
 Job# : 6855

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 7.80° Az (feet)	Grid Y	Grid X	Comments
5083.00	58.30	8.50	4955.74	356.45	55.62	13.12	360.70	167101.45	1921030.62	
5115.00	61.80	8.70	4971.71	383.86	59.77	10.95	388.42	167128.86	1921034.77	
5146.00	64.10	8.50	4985.81	411.16	63.89	7.44	416.03	167156.16	1921038.89	
5177.00	66.20	7.80	4998.83	439.00	67.88	7.08	444.15	167184.00	1921042.88	
5208.00	68.60	6.40	5010.75	467.40	71.42	8.79	472.77	167212.40	1921046.42	
5238.00	70.10	6.40	5021.33	495.30	74.54	5.00	500.83	167240.30	1921049.54	
5269.00	70.90	6.20	5031.67	524.34	77.75	2.65	530.04	167269.34	1921052.75	
5300.00	71.30	5.70	5041.72	553.51	80.79	2.00	559.35	167298.51	1921055.79	
5331.00	71.30	5.90	5051.66	582.72	83.76	0.61	588.70	167327.72	1921058.76	
5362.00	70.90	4.60	5061.70	611.93	86.44	4.17	618.00	167356.93	1921061.44	
5393.00	70.10	4.60	5072.04	641.06	88.79	2.58	647.18	167386.06	1921063.79	
5424.00	69.80	4.60	5082.67	670.08	91.12	0.97	676.25	167415.08	1921066.12	
5455.00	69.70	4.30	5093.40	699.08	93.38	0.96	705.29	167444.08	1921068.38	
5486.00	70.20	4.60	5104.03	728.11	95.64	1.85	734.36	167473.11	1921070.64	
5516.00	71.60	4.30	5113.85	756.38	97.84	4.76	762.66	167501.38	1921072.84	
5547.00	73.90	4.30	5123.04	785.90	100.06	7.42	792.20	167530.90	1921075.06	
5578.00	77.10	5.70	5130.80	815.79	102.67	11.21	822.18	167560.79	1921077.67	
5609.00	80.00	5.30	5136.95	846.03	105.59	9.44	852.53	167591.03	1921080.59	
5640.00	81.70	6.60	5141.88	876.47	108.76	6.87	883.12	167621.47	1921083.76	
5671.00	83.70	7.50	5145.82	906.98	112.53	7.07	913.86	167651.98	1921087.53	
5701.00	85.10	7.80	5148.75	936.57	116.51	4.77	943.72	167681.57	1921091.51	
5712.00	85.80	6.90	5149.62	947.45	117.91	10.34	954.68	167692.45	1921092.91	
5744.00	87.30	7.30	5151.55	979.14	121.86	4.85	986.62	167724.14	1921096.86	
5773.00	88.10	8.70	5152.71	1007.84	125.89	5.56	1015.60	167752.84	1921100.89	
5804.00	89.50	9.00	5153.36	1038.46	130.66	4.62	1046.59	167783.46	1921105.66	
5836.00	90.00	9.40	5153.50	1070.05	135.78	2.00	1078.58	167815.05	1921110.78	
5867.00	90.30	8.00	5153.42	1100.69	140.46	4.62	1109.57	167845.69	1921115.46	
5898.00	90.60	8.30	5153.18	1131.38	144.86	1.37	1140.57	167876.38	1921119.86	
5929.00	90.80	7.80	5152.80	1162.07	149.20	1.74	1171.57	167907.07	1921124.20	
5961.00	91.00	7.10	5152.29	1193.80	153.35	2.27	1203.56	167938.80	1921128.35	

NAD27 Ks South gr elev=1884 RKB=1896

## Calmena Energy Services

Company: Woolsey Operating Company, LLC  
 Well: Ricke Baier #1-H  
 Location: Barber County, Kansas

Date: 14-Dec-2012  
 Surveys  
 Page 4  
 Job# : 6855

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 7.80° Az (feet)	Grid Y	Grid X	Comments
6023.00	90.70	7.60	5151.38	1255.28	161.28	0.94	1265.55	168000.28	1921136.28	
6087.00	90.40	7.30	5150.76	1318.74	169.58	0.66	1329.55	168063.74	1921144.58	
6147.00	89.60	7.10	5150.76	1378.26	177.10	1.37	1389.55	168123.26	1921152.10	
6210.00	90.20	6.00	5150.87	1440.85	184.28	1.99	1452.53	168185.85	1921159.28	
6270.00	91.30	5.30	5150.08	1500.55	190.19	2.17	1512.48	168245.55	1921165.19	
6331.00	90.60	5.30	5149.07	1561.28	195.82	1.15	1573.41	168306.28	1921170.82	
6394.00	90.10	6.00	5148.69	1623.97	202.03	1.37	1636.37	168368.97	1921177.03	
6456.00	90.60	8.20	5148.31	1685.49	209.69	3.64	1698.36	168430.49	1921184.69	
6519.00	90.60	8.50	5147.65	1747.82	218.84	0.48	1761.35	168492.82	1921193.84	
6581.00	90.90	9.20	5146.84	1809.08	228.37	1.23	1823.34	168554.08	1921203.37	
6643.00	90.10	11.10	5146.30	1870.10	239.30	3.32	1885.28	168615.10	1921214.30	
6706.00	89.80	12.00	5146.35	1931.83	251.91	1.51	1948.14	168676.83	1921226.91	
6768.00	88.90	12.20	5147.06	1992.44	264.91	1.49	2009.96	168737.44	1921239.91	
6829.00	89.60	12.40	5147.85	2052.04	277.90	1.19	2070.77	168797.04	1921252.90	
6891.00	88.60	11.80	5148.83	2112.65	290.90	1.88	2132.59	168857.65	1921265.90	
6953.00	89.00	12.60	5150.13	2173.24	304.00	1.44	2194.39	168918.24	1921279.00	
7016.00	89.30	11.30	5151.06	2234.87	317.04	2.12	2257.22	168979.87	1921292.04	
7077.00	89.90	10.10	5151.49	2294.80	328.36	2.20	2318.13	169039.80	1921303.36	
7136.00	90.30	9.90	5151.38	2352.91	338.61	0.76	2377.09	169097.91	1921313.61	
7195.00	89.40	9.20	5151.54	2411.09	348.40	1.93	2436.06	169156.09	1921323.40	
7256.00	88.00	9.00	5152.92	2471.30	358.04	2.32	2497.03	169216.30	1921333.04	
7318.00	87.80	9.90	5155.19	2532.42	368.22	1.49	2558.96	169277.42	1921343.22	
7379.00	88.90	7.50	5156.95	2592.69	377.44	4.33	2619.92	169337.69	1921352.44	
7439.00	89.40	6.90	5157.84	2652.21	384.96	1.30	2679.91	169397.21	1921359.96	
7502.00	89.70	7.80	5158.34	2714.69	393.02	1.51	2742.91	169459.69	1921368.02	
7564.00	90.20	7.30	5158.39	2776.15	401.16	1.14	2804.91	169521.15	1921376.16	
7624.00	90.80	7.50	5157.87	2835.65	408.89	1.05	2864.90	169580.65	1921383.89	
7687.00	90.50	9.00	5157.15	2897.99	417.93	2.43	2927.89	169642.99	1921392.93	
7749.00	89.80	8.70	5156.99	2959.25	427.47	1.23	2989.88	169704.25	1921402.47	
7812.00	90.40	8.70	5156.88	3021.52	437.00	0.95	3052.88	169766.52	1921412.00	

NAD27 Ks South gr elev=1884 RKB=1896

## Calmena Energy Services

Company: Woolsey Operating Company, LLC  
 Well: Ricke Baier #1-H  
 Location: Barber County, Kansas

Date: 14-Dec-2012  
 Surveys  
 Page 5  
 Job# : 6855

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 7.80° Az (feet)	Grid Y	Grid X	Comments
7873.00	89.60	8.30	5156.88	3081.85	446.01	1.47	3113.87	169826.85	1921421.01	
7935.00	89.70	9.40	5157.26	3143.11	455.55	1.78	3175.86	169888.11	1921430.55	
7995.00	89.30	8.30	5157.78	3202.40	464.78	1.95	3235.84	169947.40	1921439.78	
8057.00	89.60	8.50	5158.38	3263.73	473.84	0.58	3297.84	170008.73	1921448.84	
8121.00	90.40	8.50	5158.38	3327.02	483.30	1.25	3361.83	170072.02	1921458.30	
8182.00	91.00	8.20	5157.63	3387.37	492.16	1.10	3422.82	170132.37	1921467.16	
8212.00	91.60	8.30	5156.95	3417.05	496.46	2.03	3452.82	170162.05	1921471.46	
8272.00	91.60	7.80	5155.28	3476.44	504.86	0.83	3512.79	170221.44	1921479.86	
8333.00	91.20	7.80	5153.79	3536.86	513.13	0.66	3573.77	170281.86	1921488.13	
8396.00	91.10	8.90	5152.52	3599.18	522.28	1.75	3636.76	170344.18	1921497.28	
8457.00	90.00	8.70	5151.94	3659.45	531.61	1.83	3697.74	170404.45	1921506.61	
8519.00	89.70	8.50	5152.10	3720.76	540.88	0.58	3759.74	170465.76	1921515.88	
8582.00	88.90	8.70	5152.87	3783.04	550.30	1.31	3822.73	170528.04	1921525.30	
8645.00	86.50	9.20	5155.40	3845.22	560.10	3.89	3885.66	170590.22	1921535.10	
8708.00	86.60	8.90	5159.19	3907.32	569.99	0.50	3948.53	170652.32	1921544.99	
8768.00	87.70	7.30	5162.17	3966.65	578.43	3.23	4008.45	170711.65	1921553.43	
8827.00	89.20	6.00	5163.77	4025.23	585.26	3.36	4067.41	170770.23	1921560.26	
8888.00	90.50	6.40	5163.93	4085.87	591.85	2.23	4128.39	170830.87	1921566.85	
8948.00	90.80	5.00	5163.25	4145.57	597.81	2.39	4188.34	170890.57	1921572.81	
9009.00	91.60	5.70	5161.97	4206.29	603.49	1.74	4249.27	170951.29	1921578.49	
9071.00	91.80	5.00	5160.13	4267.99	609.27	1.17	4311.19	171012.99	1921584.27	
9132.00	92.60	4.10	5157.79	4328.75	614.11	1.97	4372.04	171073.75	1921589.11	
9195.00	92.90	4.30	5154.76	4391.51	618.71	0.57	4434.85	171136.51	1921593.71	
9255.00	90.50	4.10	5152.98	4451.32	623.11	4.01	4494.70	171196.32	1921598.11	
9301.00	90.50	4.10	5152.58	4497.20	626.40	0.00	4540.60	171242.20	1921601.40	

NAD27 Ks South gr elev=1884 RKB=1896

# Daily Activity Report

Day 21 - 2012/12/13

FILE #: 0012187  
JOB TYPE: Horizontal  
RIG & NO: DanD 11

WELL NAME: Ricke Baier #1-H  
COMPANY: Woolsey Operating Company, LLC  
SURFACE LOCATION:

SERVICE CO.: Calmena Energy Services  
SURVEY TYPE: Positive Pulse MWD  
FIELD / LOCATION: / Kansas / USA

Company Man: Mike Tharp  
DIR Supervisor: Heath Marshall, Mark Sanders  
MWD Supervisor: Shane Lewis, Kevin Moses

GROUND ELEV: 1879 ft      START DEPTH: 8994.0 ft      PROGRESS: 307.0 ft      DAILY COST: USD\$9500.00  
KB ELEV: 1886 ft      END DEPTH: 9301.0 ft      AVG. ROP.: 31.5 ft/hr      PREVIOUS COST: USD\$205300.00  
TOTAL COST: USD\$214800.00

WORK STATUS: Operating (All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:30	Orienting With Motor - 8'@30L	0.50	9004	7	07:30-08:30	Rotating With Motor	1.00	9241	7
00:30-02:15	Rotating With Motor	1.75	9055	7	08:30-08:45	Circ & Accumulate Surveys	0.25	9241	7
02:15-02:30	Circ & Accumulate Surveys	0.25	9055	7	08:45-09:00	Orienting With Motor	0.25	9248	7
02:30-03:15	Rotating With Motor	0.75	9086	7	09:00-10:45	Rotating With Motor	1.75	9301	7
03:15-03:45	Orienting With Motor - 5'@20L	0.50	9091	7	10:45-11:15	Rig Service	0.50	9301	7
03:45-04:15	Rotating With Motor	0.50	9117	7	11:15-11:30	Circ & Accumulate Surveys	0.25	9301	7
04:15-04:30	Circ & Accumulate Surveys	0.25	9117	7	11:30-13:00	Circulating	1.50	9301	7
04:30-06:00	Rotating With Motor	1.50	9178	7	13:00-16:30	Wiper Trip - 62 Stands	3.50	9301	7
06:00-06:15	Circ & Accumulate Surveys	0.25	9178	7	16:30-18:30	Circulating	2.00	9301	7
06:15-07:00	Rotating With Motor	0.75	9210	7	18:30-24:00	POOH To Run Casing	5.50	9301	7
07:00-07:30	Orienting With Motor	0.50	9215	7			0.00		

TIME SUMMARY (hrs):				DRILLING PARAMETERS:					
MOTOR DRILL:	9.75	ORIENTING HRS:	1.75	ROTARY DRILL:	0.00	ROTARY TORQUE:		STRING WEIGHT	84000 lbs
TIME DRILL:	0.00	ROTATING HRS:	8.00	MOTOR HRS:	14.50	WOB SLIDING (HI):	10000 lbf	WOB ROTATE (HI):	8000 lbf
MOTOR REAM:	0.00	TRIP:	9.00	OTHER:	0.50	WOB SLIDING (LO):	4000 lbf	WOB ROTATE (LO):	4000 lbf
CIRC:	4.75	ROTARY DRILL:	0.00	TOTAL HRS:	24.00	RPM (ROTARY):	65 rpm	DRAG UP:	22000 lbf
MOTOR HRS:	14.50	DRILL HRS:	9.75			RPM (MOTOR):	122 rpm	DRAG DN:	20000 lbf

**BHA / MOTOR / BIT INFORMATION:**

BHA: 7      HOLE SIZE: 6.125 in      SECTION TYPE: Lateral 1      SURVEY TYPE: Positive Pulse MWD  
 MANFCT.: Calmena      STABILIZER: No      SERIAL#: 475-012      MODEL:      LOBE CFG.: 7/8  
 SETTING: 1.72 °      KICKPAD: No      SIZE: 4.75      MTR HRS THIS DAY: 14.5      MTR HRS TO DATE: 26.75  
 MANFCT: Reed      BIT TYPE: PDC Bit      TYPE: MSH516D      NOZZLES: 16, 16, 16, 32: 1.374 in² TFA  
 IADC BIT GRADE: ? / ? / ? / ? / ? / ? / ? / ? / TD

**PUMP PARAMETERS**

PRESSURE ON BTM: 2230      PRESSURE OFF BTM: 2100      TOTAL FLOW RATE: 235.50 gal/min

PUMP 1:	TYPE:	EFF.: 100.0%	SPM: 75.00	LINER: 6.00 in	STROKE VOL.: 3.1400 gal/stk
PUMP 2:	TYPE:	EFF.: 100.0%	SPM: 0.00	LINER: 0.00 in	STROKE VOL.: 0.0000 gal/stk
PUMP 3:	TYPE:	EFF.: 100.0%	SPM: 0.00	LINER: 0.00 in	STROKE VOL.: 0.0000 gal/stk

**MUD RECORD**

MUD TYPE: Brine or Salt      VISC: 30 sec/qt      WTR LOSS: 0 cc/30min      PV: 0 cP      YP: 0 lb/100 ft²      pH: 7  
 DENSITY: 9.4 lb/gal      GEL 0/10: 0.00 lb/100 ft²      SAND: 0      SOLIDS: 0.8      OIL: 0      TEMP: 0 °F  
 LIQUID BASE: Water      LIQUID RATE: 0 gal/min      GAS TYPE:      GAS RATE: 0 cu ft/min

**COMMENTS:**  
TD well at 9301' MD

CUSTOMER SIGNATURE: \_\_\_\_\_

Day 22 - 2012/12/14

FILE #: 0012187  
JOB TYPE: Horizontal  
RIG & NO: DanD 11

WELL NAME: Ricke Baier #1-H  
COMPANY: Woolsey Operating Company, LLC  
SURFACE LOCATION:

SERVICE CO.: Calmena Energy Services  
SURVEY TYPE: Positive Pulse MWD  
FIELD / LOCATION: / Kansas / USA

Company Man: Mike Tharp  
DIR Supervisor: Heath Marshall, Mark Sanders  
MWD Supervisor: Shane Lewis, Kevin Moses

GROUND ELEV: 1879 ft      START DEPTH: 9301.0 ft      PROGRESS: 0.0 ft      DAILY COST: USD\$9500.00  
KB ELEV: 1886 ft      END DEPTH: 9301.0 ft      AVG. ROP.: 0.0 ft/hr      PREVIOUS COST: USD\$214800.00  
TOTAL COST: USD\$224300.00

WORK STATUS: Operating (All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:00	Lay Down Directional Tools	1.00	9301	7	01:00-24:00	Released	23.00	9301	7

TIME SUMMARY (hrs):				DRILLING PARAMETERS:					
MOTOR DRILL:	0.00	ORIENTING HRS:	0.00	ROTARY DRILL:	0.00	ROTARY TORQUE:		STRING WEIGHT:	0 lbs
TIME DRILL:	0.00	ROTATING HRS:	0.00	MOTOR HRS:	0.00	WOB SLIDING (HI):	0 lbf	WOB ROTATE (HI):	0 lbf
MOTOR REAM:	0.00			TRIP:	0.00	WOB SLIDING (LO):	0 lbf	WOB ROTATE (LO):	0 lbf
CIRC:	0.00	ROTARY DRILL:	0.00	OTHER:	24.00	RPM (ROTARY):		DRAG UP:	0 lbf
MOTOR HRS:	0.00	DRILL HRS:	0.00	TOTAL HRS:	24.00	RPM (MOTOR):		DRAG DN:	0 lbf

**BHA / MOTOR / BIT INFORMATION:**

BHA: 7      HOLE SIZE: 6.125 in      SECTION TYPE: Lateral 1      SURVEY TYPE: Positive Pulse MWD  
 MANFCT.: Calmena      STABILIZER: No      SERIAL#: 475-012      MODEL:      LOBE CFG.: 7/8  
 SETTING: 1.72 °      KICKPAD: No      SIZE: 4.75      MTR HRS THIS DAY: 0      MTR HRS TO DATE: 26.75  
 MANFCT: Reed      BIT TYPE: PDC Bit      TYPE: MSH516D      NOZZLES: 16, 16, 16, 32: 1.374 in<sup>2</sup> TFA  
 IADC BIT GRADE: ? / ? / ? / ? / ? / ? / ? / ? / TD

**PUMP PARAMETERS**

PRESSURE ON BTM: 0      PRESSURE OFF BTM: 0      TOTAL FLOW RATE: 0.00 gal/min  
 PUMP 1: TYPE:      EFF.: 100.0%      SPM: 0.00      LINER: 0.00 in      STROKE VOL.: 0.0000 gal/stk  
 PUMP 2: TYPE:      EFF.: 100.0%      SPM: 0.00      LINER: 0.00 in      STROKE VOL.: 0.0000 gal/stk  
 PUMP 3: TYPE:      EFF.: 100.0%      SPM: 0.00      LINER: 0.00 in      STROKE VOL.: 0.0000 gal/stk

**MUD RECORD**

MUD TYPE:      VISC: 0 sec/qt      WTR LOSS: 0 cc/30min      PV: 0 cP      YP: 0 lb/100 ft<sup>2</sup>      pH: 0  
 DENSITY: 0 lb/gal      GEL 0/10: 0.00 lb/100 ft<sup>2</sup>      SAND: 0      SOLIDS: 0      OIL: 0      TEMP: 0 °F  
 LIQUID BASE:      LIQUID RATE: 0 gal/min      GAS TYPE:      GAS RATE: 0 cu ft/min

**COMMENTS:**

CUSTOMER SIGNATURE: \_\_\_\_\_





# Slide Sheet Report

## BHA 7 - 2012/12/12 TO 2012/12/14

**FILE #:** 0012187  
**JOB TYPE:** Horizontal  
**RIG & NO:** DanD 11

**WELL NAME:** Ricke Baier #1-H  
**COMPANY:** Woolsey Operating Company, LLC  
**SURFACE LOCATION:**

**SERVICE CO.:** Calmena Energy Services  
**SURVEY TYPE:** Positive Pulse MWD  
**FIELD / LOCATION:** / Kansas / USA

**Company Man:** Mike Tharp  
**DIR Supervisor:** Heath Marshall, Mark Sanders  
**MWD Supervisor:** Shane Lewis, Kevin Moses

<b>BHA NO:</b> 7	<b>DATES RUN:</b> 2012/12/12 TO 2012/12/14	<b>SECTION:</b> Lateral 1	<b>TOOLFACE OFFSET:</b>	<b>SURVEY OFFSET:</b> 46 ft
<b>MOTOR SETTING:</b> 1.72 °	<b>KICKPAD:</b> No	<b>STABILIZER:</b> No	<b>MODEL:</b>	<b>SERIAL NO:</b> 475-012
				<b>BHA SURVEY TYPE:</b> Positive Pulse MWD

(Distances are shown in feet.)

BIT DEPTH DRILLED	SURVEY				----- ORIENTING -----			----- ROTATING -----			SLIDE SEEN	BUR /ft	BUR /100ft	COMMENTS	
	DEPTH	INC	AZM	TF	FROM	TO	FEET	FROM	TO	FEET					
8691.00	63.00	8645.00	86.50	9.20	48L	8691.00	8698.00	7.00	8698.00	8754.00	56.00	0.00	0.00	0.00	
8754.00	60.00	8708.00	86.60	8.90	38L	8754.00	8764.00	10.00	8764.00	8814.00	50.00	7.00	0.01	0.16	Slide f/ 8785'-8791' @ 55L
8814.00	59.00	8768.00	87.70	7.30	45L	8814.00	8824.00	10.00	8824.00	8873.00	49.00	10.00	0.11	1.83	SL) F/8843' to 8853' @30L
8873.00	61.00	8827.00	89.20	6.00	30L	8873.00	8883.00	10.00	8883.00	8934.00	51.00	10.00	0.15	2.54	
8934.00	60.00	8888.00	90.50	6.40		8934.00	8934.00	0.00	8934.00	8994.00	60.00	10.00	0.13	2.13	
8994.00	61.00	8948.00	90.80	5.00	30L	8994.00	9002.00	8.00	9002.00	9055.00	53.00	0.00	0.00	0.50	
9055.00	62.00	9009.00	91.60	5.70		9055.00	9055.00	0.00	9055.00	9117.00	62.00	8.00	0.10	1.31	S)F/9086' to 9091'
9117.00	61.00	9071.00	91.80	5.00		9117.00	9117.00	0.00	9117.00	9178.00	61.00	0.00	0.00	0.32	
9178.00	63.00	9132.00	92.60	4.10		9178.00	9178.00	0.00	9178.00	9241.00	63.00	0.00	0.00	1.31	
9241.00	30.00	9195.00	92.90	4.30	150L	9241.00	9248.00	7.00	9248.00	9271.00	23.00	0.00	0.00	0.48	
9271.00	30.00	9225.00	90.50	4.10		9271.00	9271.00	0.00	9271.00	9301.00	30.00	0.00	0.00	-8.00	
9301.00	0.00	9255.00	0.00	0.00		9301.00	9301.00	0.00	9301.00	9301.00	0.00	7.00	-12.93	-301.67	

<b>Totals:</b>	52.00 ft	558.00 ft
<b>Percentages:</b>	8.5%	91.5%
<b>Time:</b>	4.75 hrs	14.75 hrs
<b>Percentages:</b>	24.4%	75.6%