



**CONFIDENTIAL**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 32811  
Name: OSAGE Resources, LLC  
Address 1: 6209 N K61 HWY  
Address 2:  
City: HUTCHINSON State: KS Zip: 67502 + 8608  
Contact Person: Brooke Walter  
Phone: ( 620 ) 860-2224  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Curtis Covey

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  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:

09/7/2012	09/29/2012	10/23/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23931-01-00  
Spot Description:  
SW NE NE SE Sec. 25 Twp. 33 S. R. 15  East  West  
2203 Feet from  North /  South Line of Section  
380 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Barber  
Lease Name: Osage No. Well #: HC1  
Field Name: Aetna Gas Area

Producing Formation: Mississippian  
Elevation: Ground: 1830 Kelly Bushing: 1849  
Total Depth: 5216 Plug Back Total Depth: 9515  
Amount of Surface Pipe Set and Cemented at: 204 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: 74000 ppm Fluid volume: 2500 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**

Letter of Confidentiality Received  
Date: 11/02/2012  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NAOMI JAMES Date: 11/05/2012

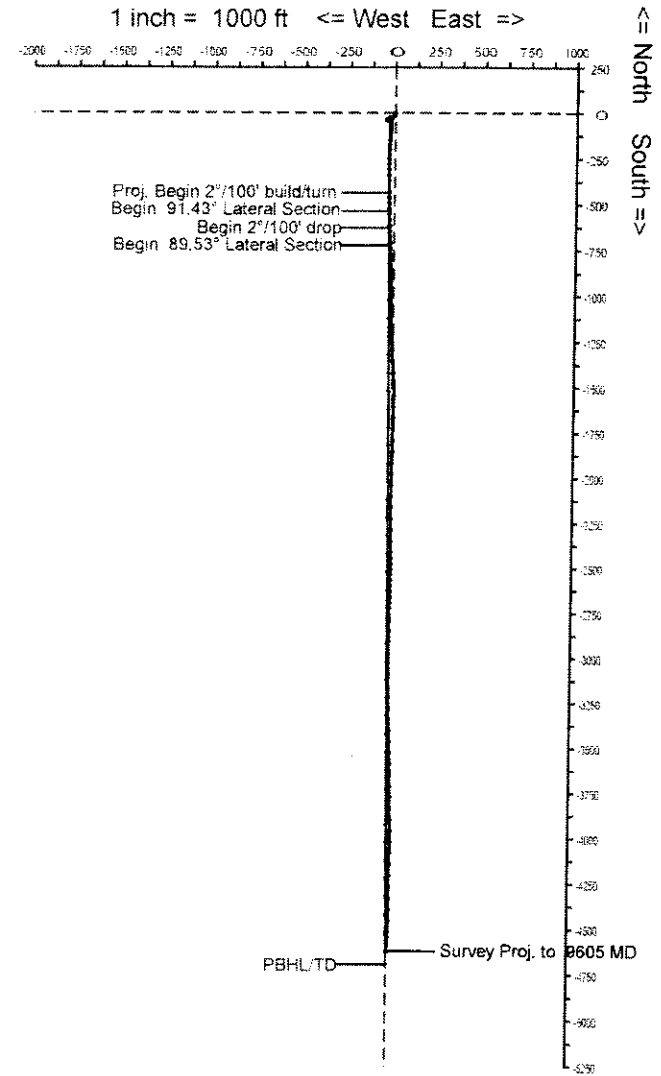
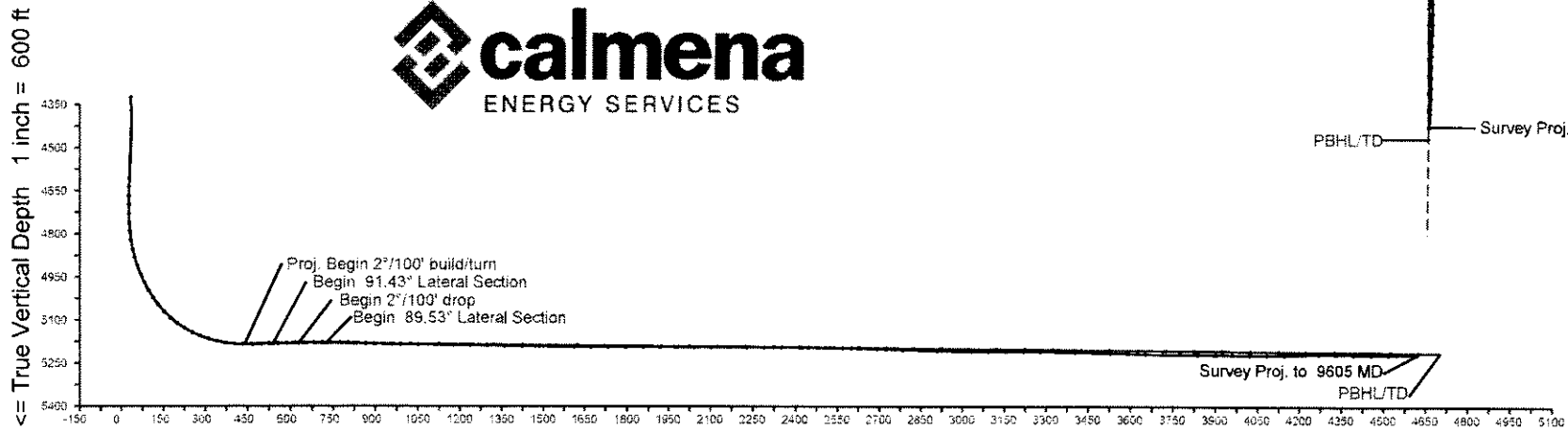
# Osage Resources

## Osage HC1

### Barber County, Kansas

WELL PROFILE DATA rev3							
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment
5420	90.10	178.12	5184	-438	-29	0.00	Proj. Begin 2°/100' build/turn
5520	91.43	179.62	5182	-538	-27	2.00	Begin 91.43° Lateral Section
5610	91.43	179.62	5180	-628	-27	0.00	Begin 2°/100' drop
5705	89.53	179.62	5179	-723	-26	2.00	Begin 89.53° Lateral Section
9675	89.53	179.62	5212	-693	0	0.00	PBHL/TD

WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment
9605	90.70	182.60	5216	-621	5	0.00	Survey Proj. to 9605 MD



**Calmena Energy Services**

Company: Osage Resources, LLC  
 Well: Osage HC1  
 Location: Barber County, Kansas

Date: 29-Sep-2012  
 Surveys  
 Page 1  
 Job# : 6725

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Comments
<b>Surface Location</b>								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
508.00	0.40	197.70	508.00	-1.69	-0.54	0.08	1.69	
973.00	3.10	198.00	972.74	-15.20	-4.92	0.58	15.20	
1445.00	2.90	236.50	1444.14	-33.93	-18.82	0.42	33.93	
1938.00	1.50	266.90	1936.78	-41.16	-35.66	0.36	41.16	
2399.00	0.80	265.50	2397.68	-41.74	-44.90	0.15	41.74	
2892.00	0.70	322.50	2890.64	-39.62	-50.16	0.15	39.62	
3356.00	1.20	59.00	3354.60	-34.87	-47.72	0.31	34.87	
3948.00	1.50	102.40	3946.45	-33.34	-34.84	0.18	33.34	
4326.00	0.80	8.00	4324.40	-31.79	-29.64	0.46	31.79	
4610.00	1.70	26.50	4608.33	-26.05	-27.49	0.34	26.05	
4638.00	1.40	17.80	4636.32	-25.36	-27.20	1.36	25.36	
4669.00	0.60	38.60	4667.31	-24.87	-26.98	2.79	24.87	
4700.00	0.80	197.30	4698.31	-24.95	-26.94	4.44	24.95	
4731.00	1.60	240.20	4729.30	-25.37	-27.38	3.71	25.37	
4762.00	2.20	182.70	4760.29	-26.18	-27.79	6.13	26.18	
4793.00	5.30	166.20	4791.22	-28.17	-27.47	10.49	28.17	
4824.00	9.60	171.50	4821.95	-32.11	-26.75	14.03	32.11	
4855.00	13.10	175.30	4852.34	-38.17	-26.08	11.54	38.17	
4885.00	16.60	177.80	4881.34	-45.85	-25.64	11.86	45.85	
4915.00	20.20	178.20	4909.80	-55.31	-25.31	12.01	55.31	
4946.00	23.30	179.20	4938.59	-66.79	-25.05	10.07	66.79	
4979.00	26.60	180.60	4968.50	-80.71	-25.04	10.16	80.71	
5010.00	30.30	181.70	4995.75	-95.47	-25.35	12.05	95.47	
5041.00	35.00	182.90	5021.85	-112.18	-26.03	15.30	112.18	
5072.00	39.80	183.40	5046.47	-130.97	-27.07	15.51	130.97	
5104.00	44.80	183.40	5070.13	-152.46	-28.34	15.63	152.46	
5135.00	49.60	182.70	5091.19	-175.17	-29.55	15.57	175.17	
5166.00	54.20	181.80	5110.31	-199.54	-30.50	15.01	199.54	
5197.00	59.10	181.50	5127.35	-225.42	-31.24	15.83	225.42	

**Calmena Energy Services**

Company: Osage Resources, LLC  
 Well: Osage HC1  
 Location: Barber County, Kansas

Date: 29-Sep-2012  
 Surveys  
 Page 2  
 Job# : 6725

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Comments
5228.00	64.10	181.50	5142.09	-252.67	-31.96	16.13	252.67	
5258.00	69.20	180.60	5153.97	-280.20	-32.46	17.22	280.20	
5289.00	72.80	179.20	5164.06	-309.50	-32.40	12.37	309.50	
5321.00	76.60	179.00	5172.51	-340.36	-31.92	11.89	340.36	
5352.00	81.30	178.70	5178.45	-370.77	-31.30	15.19	370.77	
5413.00	90.30	179.70	5182.91	-431.53	-30.46	14.84	431.53	
5445.00	90.70	178.70	5182.63	-463.53	-30.01	3.37	463.53	
5475.00	91.10	178.30	5182.16	-493.52	-29.23	1.89	493.52	
5506.00	91.50	178.70	5181.46	-524.50	-28.42	1.82	524.50	
5537.00	91.70	178.30	5180.59	-555.47	-27.61	1.44	555.47	
5568.00	91.10	177.60	5179.83	-586.44	-26.50	2.97	586.44	
5599.00	91.10	177.80	5179.24	-617.41	-25.25	0.65	617.41	
5630.00	91.30	178.00	5178.59	-648.39	-24.12	0.91	648.39	
5661.00	90.80	177.30	5178.02	-679.35	-22.85	2.77	679.35	
5692.00	90.50	177.30	5177.67	-710.32	-21.39	0.97	710.32	
5722.00	90.30	177.40	5177.46	-740.29	-20.00	0.75	740.29	
5754.00	89.30	177.80	5177.57	-772.26	-18.66	3.37	772.26	
5784.00	88.20	178.50	5178.23	-802.23	-17.69	4.35	802.23	
5815.00	87.90	178.90	5179.28	-833.21	-16.99	1.61	833.21	
5846.00	88.30	179.00	5180.31	-864.19	-16.42	1.33	864.19	
5877.00	88.50	178.30	5181.17	-895.16	-15.69	2.35	895.16	
5908.00	88.70	178.30	5181.93	-926.14	-14.77	0.65	926.14	
5939.00	89.00	177.80	5182.55	-957.12	-13.72	1.88	957.12	
5970.00	89.50	178.50	5182.96	-988.10	-12.72	2.77	988.10	
6032.00	89.10	178.70	5183.72	-1050.08	-11.20	0.72	1050.08	
6093.00	89.40	178.30	5184.52	-1111.05	-9.60	0.82	1111.05	
6155.00	88.80	178.50	5185.49	-1173.02	-7.87	1.02	1173.02	
6217.00	89.00	178.20	5186.68	-1234.98	-6.09	0.58	1234.98	
6279.00	89.30	177.30	5187.60	-1296.92	-3.65	1.53	1296.92	
6341.00	89.80	176.60	5188.09	-1358.83	-0.36	1.39	1358.83	

**Calmena Energy Services**

Company: Osage Resources, LLC  
 Well: Osage HC1  
 Location: Barber County, Kansas

Date: 29-Sep-2012  
 Surveys  
 Page 3  
 Job# : 6725

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Comments
6405.00	89.30	176.40	5188.59	-1422.71	3.55	0.84	1422.71	
6467.00	89.50	176.90	5189.24	-1484.60	7.17	0.87	1484.60	
6529.00	89.40	178.70	5189.83	-1546.55	9.55	2.91	1546.55	
6591.00	88.90	182.00	5190.75	-1608.53	9.18	5.38	1608.53	
6653.00	89.80	181.70	5191.46	-1670.50	7.17	1.53	1670.50	
6715.00	90.10	181.20	5191.51	-1732.48	5.61	0.94	1732.48	
6777.00	89.90	180.70	5191.51	-1794.47	4.58	0.87	1794.47	
6839.00	89.00	181.60	5192.11	-1856.45	3.33	2.05	1856.45	
6901.00	89.40	181.60	5192.97	-1918.42	1.60	0.65	1918.42	
6962.00	90.00	180.40	5193.29	-1979.41	0.54	2.20	1979.41	
7024.00	90.60	180.50	5192.97	-2041.41	0.05	0.98	2041.41	
7086.00	89.70	180.40	5192.80	-2103.40	-0.44	1.46	2103.40	
7148.00	89.60	179.70	5193.18	-2165.40	-0.49	1.14	2165.40	
7210.00	89.60	178.10	5193.62	-2227.39	0.70	2.58	2227.39	
7272.00	90.90	180.70	5193.34	-2289.38	1.35	4.69	2289.38	
7334.00	90.50	180.40	5192.59	-2351.37	0.75	0.81	2351.37	
7396.00	88.90	179.30	5192.91	-2413.37	0.92	3.13	2413.37	
7427.00	89.20	179.00	5193.43	-2444.36	1.38	1.37	2444.36	
7458.00	89.70	179.50	5193.72	-2475.35	1.78	2.28	2475.35	
7489.00	89.30	179.80	5193.99	-2506.35	1.97	1.61	2506.35	
7520.00	88.60	180.50	5194.56	-2537.35	1.89	3.19	2537.35	
7551.00	88.80	180.40	5195.27	-2568.34	1.65	0.72	2568.34	
7582.00	88.90	180.20	5195.89	-2599.33	1.48	0.72	2599.33	
7613.00	88.60	180.20	5196.56	-2630.32	1.38	0.97	2630.32	
7644.00	88.10	181.90	5197.46	-2661.30	0.81	5.71	2661.30	
7674.00	87.90	181.80	5198.50	-2691.27	-0.16	0.75	2691.27	
7705.00	88.00	181.40	5199.61	-2722.24	-1.02	1.33	2722.24	
7767.00	88.20	180.90	5201.67	-2784.19	-2.27	0.87	2784.19	
7829.00	88.50	180.90	5203.45	-2846.16	-3.24	0.48	2846.16	
7891.00	88.70	180.70	5204.97	-2908.13	-4.11	0.46	2908.13	

## Calmena Energy Services

Company: Osage Resources, LLC  
 Well: Osage HC1  
 Location: Barber County, Kansas

Date: 29-Sep-2012  
 Surveys  
 Page 4  
 Job# : 6725

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 180.00° Az (feet)	Comments
7960.00	88.50	180.90	5206.65	-2977.11	-5.07	0.41	2977.11	
8014.00	89.60	180.00	5207.55	-3031.09	-5.49	2.63	3031.09	
8076.00	90.30	179.50	5207.60	-3093.09	-5.22	1.39	3093.09	
8138.00	90.50	179.30	5207.17	-3155.09	-4.57	0.46	3155.09	
8201.00	89.10	178.60	5207.39	-3218.08	-3.42	2.48	3218.08	
8261.00	89.60	178.10	5208.07	-3278.05	-1.69	1.18	3278.05	
8324.00	89.50	177.70	5208.57	-3341.00	0.62	0.65	3341.00	
8386.00	89.80	177.20	5208.94	-3402.94	3.37	0.94	3402.94	
8448.00	89.00	177.90	5209.59	-3464.88	6.02	1.71	3464.88	
8510.00	87.00	178.80	5211.76	-3526.81	7.81	3.54	3526.81	
8572.00	88.50	179.30	5214.19	-3588.75	8.84	2.55	3588.75	
8634.00	88.10	178.80	5216.03	-3650.72	9.86	1.03	3650.72	
8696.00	90.10	179.00	5217.00	-3712.69	11.05	3.24	3712.69	
8757.00	89.70	179.30	5217.11	-3773.69	11.96	0.82	3773.69	
8819.00	89.60	178.60	5217.49	-3835.68	13.09	1.14	3835.68	
8881.00	89.30	177.90	5218.08	-3897.64	14.99	1.23	3897.64	
8943.00	89.40	180.00	5218.79	-3959.63	16.12	3.39	3959.63	
9004.00	89.20	180.20	5219.53	-4020.62	16.02	0.46	4020.62	
9066.00	90.10	180.00	5219.91	-4082.62	15.91	1.49	4082.62	
9128.00	91.40	182.30	5219.10	-4144.60	14.67	4.26	4144.60	
9190.00	91.90	181.40	5217.32	-4206.54	12.66	1.66	4206.54	
9251.00	91.30	180.70	5215.61	-4267.50	11.55	1.51	4267.50	
9314.00	88.20	178.60	5215.89	-4330.49	11.93	5.94	4330.49	
9376.00	88.60	180.00	5217.62	-4392.46	12.69	2.35	4392.46	
9438.00	90.40	181.60	5218.16	-4454.45	11.82	3.88	4454.45	
9499.00	90.70	182.50	5217.57	-4515.40	9.64	1.56	4515.40	
9530.00	90.70	182.60	5217.20	-4546.37	8.26	0.32	4546.37	
9605.00	90.70	182.60	5216.28	-4621.29	4.86	0.00	4621.29	Survey proj

Osage  
HC3

Osage  
3315 25-03 HC

Osage  
HC1

Prod Fm - 618' →

Perf - 771' →

SE/4 25-T33S-R15W

NE/4 36-T33S-R15W

Perf - 1409' →

Osage  
107

Toe - 392' →



**Osage  
Resources**

Osage HC1 A101 Map

Schematic

Osage County, KS

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By J. J. Miller

November 2, 2012