



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1099958
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1099958

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	OSAGE Resources, LLC
Well Name	Osage No. 3315 25-03 HC
Doc ID	1099958

All Electric Logs Run

Geo Perf
Density
Induction
Sonic
Mudlog

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 29, 2012

Brooke Walter
OSAGE Resources, LLC
6209 N K61 HWY
HUTCHINSON, KS 67502-8608

Re: ACO1
API 15-007-23949-01-00
Osage No. 3315 25-03 HC
SE/4 Sec.25-33S-15W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1, logs, and other attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Brooke Walter

Cement Report

Customer <i>Georg Resources LLC</i>	Lease No.	Date <i>11/1/12</i>
Lease <i>Georg 3315 25 03 HC</i>	Well #	Service Receipt
Casing <i>4 1/2 Liner</i>	Depth <i>11142</i>	County <i>Barber</i>
		State <i>KS</i>

Job Type <i>Liner</i>	Formation	Legal Description	
Pipe Data		Perforating Data	Cement Data
Casing size <i>4 1/2</i>	Tubing Size <i>2 1/8 DDIP</i>	Shots/Ft <i>Liner</i>	Lead <i>750 SK H @ 15.6#</i>
Depth <i>10640</i>	Depth <i>4944</i>	From <i>Liner top 4944'</i>	To
Volume <i>91.6</i>	Volume <i>38.53</i>	From <i>BDL 10640'</i>	To <i>1.24 5.4/3</i>
Max Press <i>300</i>	Max Press	From	To
Well Connection <i>P.C. W/Liner</i>	Annulus Vol. <i>244</i>	From	To
Plug Depth	Packer Depth	From	To

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:30					on loc, spot trucks, R.O., safety mtg
14:53		4160			Test Lines
19:00		1070	12	3	Pump Superflush
19:04		1050	5	3	H ₂ O spacer
19:06		1250	0	3.6	Start mix @ 13#
19:09		2050	7	4	Bring up Cement 15.6#
19:50		X	175	8	Finished mix, washup
19:55		150	8	5	Start Disp 10 bbl sugar water with clay max
20:10		2650	42	2.5	Shear Liner top
20:25		350	130	1.2	SI Rate
21:01		2200	130		Bump & Shear Bottom
21:15		8	140	2	Shut down
21:06					check flowback (none)
21:11		1400	8	5	Slug out, R.O. out
21:35			120	8	Shut Down (50 bbl cement to P+)
					Job Complete

Service Units	<i>195586</i>	<i>34223 37976 70464 37972</i>	<i>19526 19811</i>
Driver Names	<i>Chavez</i>	<i>R. Oles</i>	<i>C. Herrera</i>
		<i>Chuck Clayton</i>	

Sell Date _____
 Customer Representative *Perry Bennett* Station Manager

 Cementer *Chavez*

Customer Osage Resources, LLC	Lease No.	Date 10-21-12
Lease Osage 3315	Well # 25-03HC	
Field Order # 7284	Station Pratt, Kansas	Casing 26Lb/ft.
	Depth 5527ft.	County Barber
Type Job C.N.W.-Intermediate	Formation	State Kansas
		Legal Description 25-335-15W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 26Lb/ft.	Tubing Size	Shots/Ft	150 sacks	Acid	Rate	PRESS	ISIP	
Depth 5527 Feet	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 211.7 Bbl.	Volume	From	To	Pad	Min		10 Min.	
Max Press 1500 PSI	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 5485 Feet	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Scott	Station Manager David Scott	Treater Clarence R. Messich
Service Units 37216	19903	19905
Driver Names Messich	Mattal	Lawrence
19826	19860	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00	10-20-12				Trucks on location and hold safety meeting.
					Casing almost in well upon arrival.
12:15					Casing in well and circulate for 1.5 Hours.
1:25		2500			Shut in well. Pressure Test. Open well.
1:27	500			5	Start Mud Flush.
			12	5	Start Fresh Water Spacer.
1:32	300		17	5	Start mixing 150 sacks AA2 cement.
	-0-		55		Stop pumping. Shut in well. Wash pump and lines. Release Top Rubber Plug. Open Well.
1:47	200			6.5	Start Fresh Water Displacement.
2:18	800		210	5	Plug down.
	1,500				Pressure up.
					Release pressure Float Collar held.
	-0-				Wash up pump truck.
3:00					Job Complete.
					Thank You.
					Clarence, Milte, Milte

Customer <i>Osage Resources LLC</i>		Lease No.		Date <i>10-10-12</i>	
Lease <i>Osage 3315</i>		Well # <i>25-03 HC</i>		Service Receipt <i>3038</i>	
Casing <i>13 3/8</i>	Depth <i>209</i>	County <i>Barber</i>		State <i>KS</i>	
Job Type <i>242 Surface</i>		Formation		Legal Description	
Pipe Data			Perforating Data		Cement Data
Casing size <i>13 3/8 54#</i>	Tubing Size	Shots/Ft		Lead	
Depth <i>208</i>	Depth	From	To	Tail in 750stk class C <i>1,345 35K</i> <i>6,33 Gal-5K 14.8 #</i>	
Volume <i>28615</i>	Volume	From	To		
Max Press <i>500</i>	Max Press	From	To		
Well Connection <i>13 3/8</i>	Annulus Vol.	From	To		
Plug Depth <i>185</i>	Packer Depth	From	To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>135</i>					<i>Arrive On Location</i>
<i>200</i>					<i>Safety Meeting - Rig Up</i>
<i>445</i>	<i>500</i>		<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>
<i>450</i>	<i>250</i>		<i>60</i>	<i>4.0</i>	<i>Pump out @ 14.8 #</i>
<i>505</i>	<i>200</i>		<i>23</i>	<i>4.0</i>	<i>Wash up - Displace</i>
<i>513</i>	<i>250</i>		<i>5</i>	<i>1.0</i>	<i>Slow Down - Displace</i>
<i>515</i>	<i>275</i>				<i>Shut in Swage</i>
					<i>Cement To 501 Feet</i>
<i>6:15</i>					<i>Job Complete</i>
<i>Thanks for Using Basic Energy Services</i>					
Service Units	<i>19820</i>	<i>70897-19570</i>	<i>19827-19566</i>		
Driver Names	<i>E. Chamer</i>	<i>Eddie</i>	<i>Hector</i>		

[Signature]
Customer Representative

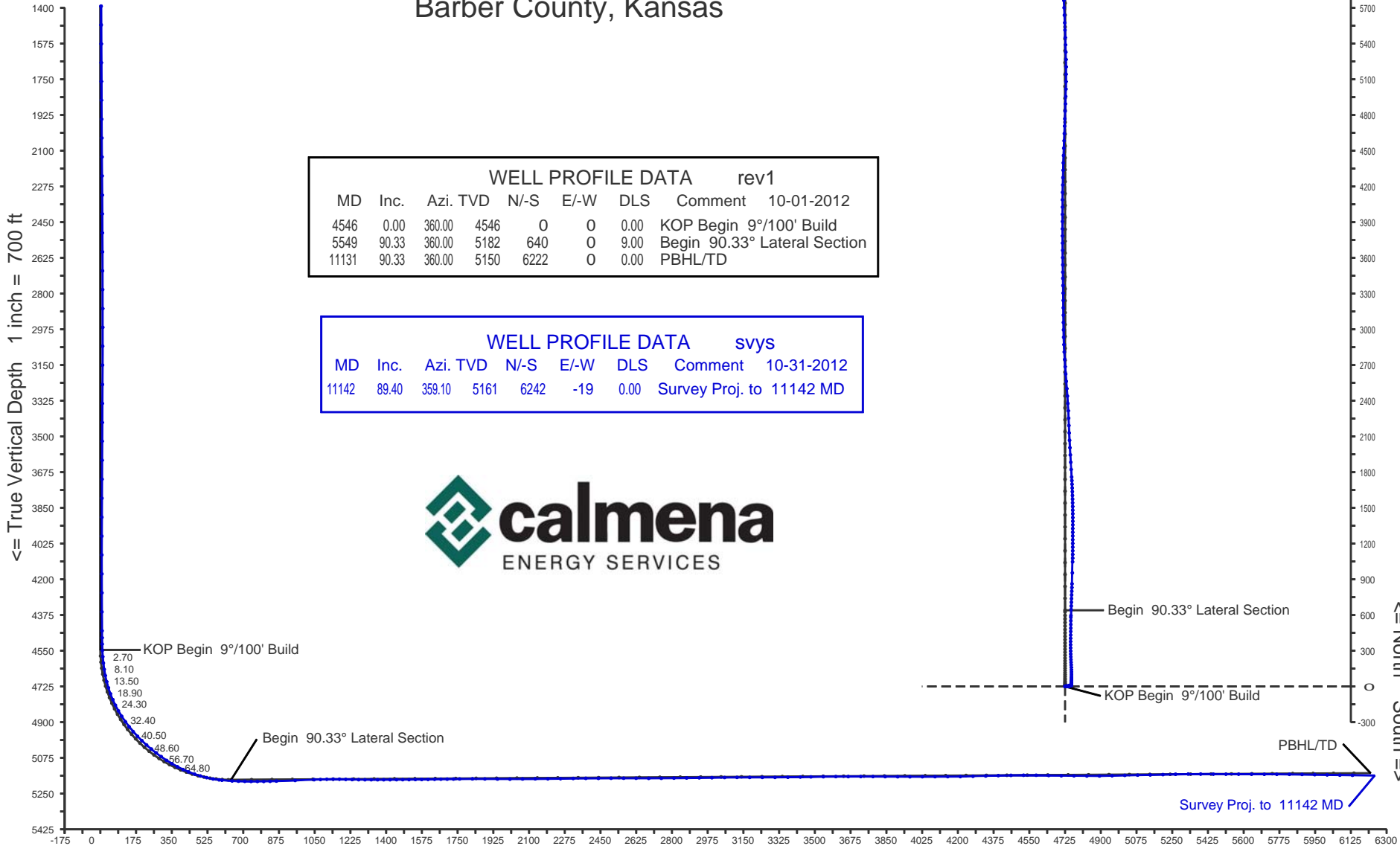
[Signature]
Station Manager

[Signature]
Cementer

Osage Resources

Osage No. 25-03 HC

Barber County, Kansas



WELL PROFILE DATA rev1							
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment 10-01-2012
4546	0.00	360.00	4546	0	0	0.00	KOP Begin 9°/100' Build
5549	90.33	360.00	5182	640	0	9.00	Begin 90.33° Lateral Section
11131	90.33	360.00	5150	6222	0	0.00	PBHL/TD

WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N-S	E-W	DLS	Comment 10-31-2012
11142	89.40	359.10	5161	6242	-19	0.00	Survey Proj. to 11142 MD



2.70
8.10
13.50
18.90
24.30
32.40
40.50
48.60
56.70
64.80

KOP Begin 9°/100' Build

Begin 90.33° Lateral Section

PBHL/TD

Survey Proj. to 11142 MD

Calmena Energy Services

Company: Osage Resources
 Well: Osage No. 25-03 HC
 Location:

Date: 31-Oct-2012
 Surveys
 Page 1
 Job# : 6785

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
Surface Location								RKB=1848
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
249.00	1.30	78.10	248.98	0.58	2.76	0.52	0.58	
280.00	1.40	78.10	279.97	0.73	3.48	0.32	0.73	
311.00	1.30	76.40	310.96	0.89	4.19	0.35	0.89	
342.00	0.90	24.90	341.96	1.20	4.64	3.29	1.20	
374.00	1.30	76.70	373.95	1.51	5.09	3.21	1.51	
405.00	1.30	87.60	404.94	1.60	5.79	0.80	1.60	
436.00	1.30	82.50	435.94	1.67	6.49	0.37	1.67	
467.00	1.30	78.30	466.93	1.78	7.18	0.31	1.78	
560.00	1.50	85.00	559.90	2.10	9.43	0.28	2.10	
653.00	1.70	79.00	652.86	2.47	11.99	0.28	2.47	
746.00	1.70	89.70	745.82	2.74	14.73	0.34	2.74	
838.00	1.80	91.80	837.78	2.70	17.54	0.13	2.70	
931.00	1.70	99.20	930.74	2.44	20.36	0.27	2.44	
1023.00	1.70	97.80	1022.70	2.03	23.06	0.05	2.03	
1115.00	1.70	97.30	1114.66	1.68	25.76	0.02	1.68	
1207.00	1.20	75.30	1206.63	1.75	28.05	0.80	1.75	
1300.00	1.10	68.80	1299.61	2.32	29.82	0.18	2.32	
1392.00	1.20	72.20	1391.59	2.93	31.56	0.13	2.93	
1484.00	1.00	74.40	1483.57	3.44	33.25	0.22	3.44	
1577.00	1.00	79.50	1576.56	3.81	34.83	0.10	3.81	
1669.00	0.90	82.90	1668.55	4.04	36.34	0.12	4.04	
1761.00	1.10	89.20	1760.53	4.14	37.94	0.25	4.14	
1853.00	1.10	40.70	1852.52	4.83	39.40	0.98	4.83	
1946.00	1.10	48.10	1945.50	6.10	40.64	0.15	6.10	
2038.00	0.80	55.50	2037.49	7.05	41.83	0.35	7.05	
2131.00	0.60	45.80	2130.48	7.76	42.71	0.25	7.76	
2224.00	0.50	40.00	2223.48	8.41	43.32	0.12	8.41	
2318.00	0.40	43.00	2317.47	8.96	43.81	0.11	8.96	
2410.00	0.40	71.50	2409.47	9.30	44.34	0.21	9.30	

Calmena Energy Services

Company: Osage Resources
 Well: Osage No. 25-03 HC
 Location:

Date: 31-Oct-2012
 Surveys
 Page 2
 Job# : 6785

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
2503.00	0.50	68.80	2502.47	9.55	45.02	0.11	9.55	
2596.00	0.40	43.20	2595.46	9.93	45.62	0.24	9.93	
2689.00	0.30	34.20	2688.46	10.37	45.98	0.12	10.37	
2781.00	0.50	49.80	2780.46	10.83	46.42	0.25	10.83	
2874.00	0.40	44.40	2873.46	11.32	46.96	0.12	11.32	
2966.00	0.30	146.50	2965.46	11.35	47.32	0.60	11.35	
3058.00	0.50	202.90	3057.46	10.78	47.30	0.45	10.78	
3151.00	0.20	185.70	3150.45	10.25	47.12	0.34	10.25	
3246.00	0.30	209.60	3245.45	9.87	46.98	0.15	9.87	
3339.00	0.20	184.30	3338.45	9.49	46.85	0.16	9.49	
3432.00	0.30	181.30	3431.45	9.09	46.83	0.11	9.09	
3524.00	0.30	192.70	3523.45	8.61	46.77	0.06	8.61	
3617.00	0.30	238.40	3616.45	8.25	46.51	0.25	8.25	
3710.00	0.50	144.40	3709.45	7.79	46.54	0.65	7.79	
3803.00	0.70	117.50	3802.44	7.20	47.28	0.37	7.20	
3896.00	0.60	100.30	3895.44	6.85	48.26	0.23	6.85	
3989.00	0.30	84.30	3988.43	6.78	48.99	0.35	6.78	
4081.00	0.40	81.80	4080.43	6.85	49.54	0.11	6.85	
4174.00	0.30	66.70	4173.43	7.00	50.09	0.15	7.00	
4267.00	0.20	56.00	4266.43	7.18	50.45	0.12	7.18	
4360.00	0.30	47.20	4359.43	7.44	50.76	0.11	7.44	
4453.00	0.40	35.40	4452.43	7.87	51.13	0.13	7.87	
4487.00	0.70	17.30	4486.42	8.16	51.26	1.01	8.16	
4518.00	1.10	6.60	4517.42	8.64	51.35	1.39	8.64	
4549.00	2.60	358.70	4548.40	9.64	51.37	4.90	9.64	
4580.00	4.30	1.90	4579.35	11.50	51.39	5.52	11.50	
4611.00	6.30	2.60	4610.21	14.37	51.50	6.45	14.37	
4642.00	8.60	2.80	4640.95	18.38	51.69	7.42	18.38	
4673.00	11.30	2.60	4671.48	23.73	51.95	8.71	23.73	
4704.00	14.40	2.10	4701.70	30.62	52.22	10.01	30.62	

Calmena Energy Services

Company: Osage Resources
 Well: Osage No. 25-03 HC
 Location:

Date: 31-Oct-2012
 Surveys
 Page 3
 Job# : 6785

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
4735.00	17.40	1.90	4731.51	39.10	52.52	9.68	39.10	
4766.00	20.50	2.10	4760.83	49.16	52.87	10.00	49.16	
4797.00	23.40	2.20	4789.58	60.74	53.31	9.36	60.74	
4827.00	26.40	1.70	4816.78	73.36	53.73	10.02	73.36	
4858.00	29.50	0.60	4844.17	87.89	54.02	10.14	87.89	
4889.00	32.40	359.80	4870.75	103.83	54.07	9.45	103.83	
4921.00	35.50	358.70	4897.29	121.70	53.83	9.88	121.70	
4952.00	38.30	357.80	4922.08	140.30	53.26	9.20	140.30	
4983.00	41.20	357.30	4945.91	160.10	52.41	9.41	160.10	
5014.00	44.00	357.30	4968.73	181.06	51.42	9.03	181.06	
5045.00	46.70	357.30	4990.51	203.09	50.38	8.71	203.09	
5076.00	48.70	357.70	5011.37	225.99	49.38	6.52	225.99	
5107.00	50.60	357.70	5031.44	249.60	48.43	6.13	249.60	
5137.00	52.20	358.40	5050.16	273.03	47.64	5.64	273.03	
5168.00	54.20	358.90	5068.73	297.84	47.05	6.58	297.84	
5200.00	56.40	359.40	5086.94	324.15	46.66	6.99	324.15	
5231.00	59.10	359.90	5103.48	350.36	46.50	8.82	350.36	
5262.00	62.10	0.60	5118.70	377.36	46.62	9.88	377.36	
5292.00	65.40	0.80	5131.97	404.26	46.95	11.02	404.26	
5322.00	68.10	1.20	5143.81	431.82	47.44	9.08	431.82	
5354.00	71.30	0.60	5154.91	461.83	47.91	10.15	461.83	
5383.00	73.90	0.50	5163.58	489.50	48.17	8.97	489.50	
5415.00	76.70	0.10	5171.70	520.44	48.33	8.83	520.44	
5447.00	79.70	0.50	5178.24	551.76	48.50	9.45	551.76	
5477.00	82.70	1.20	5182.83	581.40	48.94	10.26	581.40	
5491.00	84.20	1.50	5184.43	595.31	49.27	10.92	595.31	
5541.00	87.80	2.20	5187.92	645.15	50.88	7.33	645.15	
5572.00	88.40	2.20	5188.94	676.11	52.07	1.94	676.11	
5603.00	88.70	1.90	5189.73	707.08	53.17	1.37	707.08	
5634.00	89.20	2.20	5190.30	738.06	54.28	1.88	738.06	

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MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
5665.00	90.00	2.20	5190.51	769.03	55.47	2.58	769.03	
5696.00	90.90	2.10	5190.27	800.01	56.64	2.92	800.01	
5727.00	91.40	2.10	5189.65	830.98	57.77	1.61	830.98	
5758.00	91.60	1.90	5188.84	861.95	58.85	0.91	861.95	
5850.00	92.60	1.50	5185.47	953.85	61.58	1.17	953.85	
5943.00	91.80	1.00	5181.90	1046.76	63.61	1.01	1046.76	
5974.00	92.00	0.80	5180.87	1077.74	64.09	0.91	1077.74	
6005.00	92.20	0.50	5179.73	1108.71	64.45	1.16	1108.71	
6036.00	90.00	0.10	5179.14	1139.71	64.61	7.21	1139.71	
6067.00	88.40	359.90	5179.57	1170.70	64.61	5.20	1170.70	
6098.00	88.40	359.90	5180.43	1201.69	64.55	0.00	1201.69	
6129.00	88.70	0.10	5181.22	1232.68	64.55	1.16	1232.68	
6161.00	89.30	359.80	5181.78	1264.68	64.53	2.10	1264.68	
6192.00	89.90	0.50	5181.99	1295.67	64.61	2.97	1295.67	
6223.00	90.10	0.50	5181.99	1326.67	64.88	0.65	1326.67	
6254.00	90.00	0.50	5181.97	1357.67	65.15	0.32	1357.67	
6284.00	90.00	359.90	5181.97	1387.67	65.25	2.00	1387.67	
6315.00	90.20	359.80	5181.91	1418.67	65.17	0.72	1418.67	
6347.00	90.20	359.80	5181.80	1450.67	65.06	0.00	1450.67	
6377.00	90.40	359.20	5181.64	1480.67	64.80	2.11	1480.67	
6408.00	90.50	359.10	5181.40	1511.67	64.34	0.46	1511.67	
6439.00	90.70	358.70	5181.08	1542.66	63.74	1.44	1542.66	
6470.00	90.60	358.90	5180.72	1573.65	63.09	0.72	1573.65	
6501.00	90.80	358.50	5180.35	1604.64	62.39	1.44	1604.64	
6533.00	91.00	358.40	5179.84	1636.62	61.53	0.70	1636.62	
6564.00	90.70	357.50	5179.38	1667.60	60.42	3.06	1667.60	
6595.00	90.70	356.80	5179.00	1698.56	58.88	2.26	1698.56	
6626.00	90.70	356.80	5178.63	1729.51	57.15	0.00	1729.51	
6656.00	90.90	357.10	5178.21	1759.46	55.55	1.20	1759.46	
6719.00	90.00	356.20	5177.71	1822.35	51.87	2.02	1822.35	

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MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
6780.00	89.20	356.60	5178.14	1883.23	48.04	1.47	1883.23	
6842.00	89.50	356.80	5178.84	1945.12	44.47	0.58	1945.12	
6903.00	90.20	357.00	5179.00	2006.03	41.17	1.19	2006.03	
6965.00	91.20	357.10	5178.24	2067.94	37.98	1.62	2067.94	
7027.00	90.00	357.80	5177.59	2129.88	35.22	2.24	2129.88	
7089.00	90.40	357.70	5177.38	2191.83	32.79	0.67	2191.83	
7151.00	90.70	357.50	5176.78	2253.77	30.19	0.58	2253.77	
7213.00	90.90	357.10	5175.92	2315.70	27.27	0.72	2315.70	
7275.00	90.20	356.40	5175.32	2377.59	23.76	1.60	2377.59	
7337.00	90.20	356.20	5175.11	2439.46	19.76	0.32	2439.46	
7399.00	90.70	356.10	5174.62	2501.32	15.59	0.82	2501.32	
7461.00	89.70	355.00	5174.40	2563.13	10.78	2.40	2563.13	
7522.00	89.50	355.40	5174.83	2623.92	5.68	0.73	2623.92	
7584.00	89.80	356.20	5175.21	2685.75	1.14	1.38	2685.75	
7646.00	90.70	356.60	5174.94	2747.63	-2.76	1.59	2747.63	
7708.00	91.10	357.00	5173.96	2809.52	-6.22	0.91	2809.52	
7770.00	90.40	358.00	5173.15	2871.46	-8.92	1.97	2871.46	
7832.00	90.60	357.70	5172.61	2933.41	-11.25	0.58	2933.41	
7894.00	90.50	359.40	5172.01	2995.38	-12.81	2.75	2995.38	
7956.00	90.90	359.80	5171.26	3057.38	-13.25	0.91	3057.38	
8017.00	90.30	359.60	5170.62	3118.37	-13.57	1.04	3118.37	
8079.00	89.90	359.40	5170.51	3180.37	-14.11	0.72	3180.37	
8141.00	90.00	359.20	5170.56	3242.37	-14.87	0.36	3242.37	
8203.00	90.20	359.10	5170.46	3304.36	-15.79	0.36	3304.36	
8266.00	91.20	358.70	5169.69	3367.34	-16.99	1.71	3367.34	
8327.00	90.90	359.20	5168.57	3428.32	-18.11	0.96	3428.32	
8379.00	90.50	359.90	5167.93	3480.32	-18.52	1.55	3480.32	
8440.00	90.80	359.60	5167.24	3541.31	-18.79	0.70	3541.31	
8501.00	90.30	359.60	5166.66	3602.31	-19.21	0.82	3602.31	
8562.00	90.00	359.40	5166.50	3663.30	-19.75	0.59	3663.30	

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MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
8623.00	90.30	359.20	5166.34	3724.30	-20.49	0.59	3724.30	
8683.00	89.70	359.20	5166.34	3784.29	-21.33	1.00	3784.29	
8743.00	89.50	359.90	5166.75	3844.29	-21.80	1.21	3844.29	
8804.00	89.50	0.50	5167.29	3905.29	-21.59	0.98	3905.29	
8864.00	90.30	0.30	5167.39	3965.28	-21.17	1.37	3965.28	
8925.00	90.30	0.10	5167.07	4026.28	-20.95	0.33	4026.28	
8987.00	90.10	359.80	5166.86	4088.28	-21.01	0.58	4088.28	
9049.00	89.90	1.30	5166.86	4150.28	-20.41	2.44	4150.28	
9111.00	91.10	1.70	5166.31	4212.25	-18.79	2.04	4212.25	
9173.00	91.30	1.30	5165.02	4274.22	-17.17	0.72	4274.22	
9235.00	91.50	1.50	5163.50	4336.18	-15.65	0.46	4336.18	
9297.00	91.50	1.30	5161.88	4398.14	-14.14	0.32	4398.14	
9359.00	90.70	1.90	5160.69	4460.10	-12.41	1.61	4460.10	
9421.00	90.70	2.40	5159.93	4522.06	-10.08	0.81	4522.06	
9483.00	88.90	2.10	5160.15	4584.01	-7.65	2.94	4584.01	
9544.00	88.90	1.90	5161.32	4644.96	-5.52	0.33	4644.96	
9606.00	89.10	1.50	5162.40	4706.92	-3.68	0.72	4706.92	
9668.00	89.50	2.10	5163.16	4768.88	-1.73	1.16	4768.88	
9731.00	89.80	2.20	5163.54	4831.84	0.63	0.50	4831.84	
9793.00	90.30	2.60	5163.49	4893.78	3.23	1.03	4893.78	
9855.00	91.80	1.90	5162.35	4955.72	5.66	2.67	4955.72	
9917.00	91.20	1.00	5160.73	5017.68	7.23	1.74	5017.68	
9980.00	91.00	0.50	5159.52	5080.66	8.05	0.85	5080.66	
10042.00	91.10	0.50	5158.38	5142.65	8.59	0.16	5142.65	
10104.00	91.70	0.50	5156.87	5204.63	9.13	0.97	5204.63	
10166.00	91.50	358.50	5155.14	5266.60	8.59	3.24	5266.60	
10228.00	90.00	357.80	5154.33	5328.56	6.59	2.67	5328.56	
10289.00	89.70	357.70	5154.49	5389.51	4.20	0.52	5389.51	
10351.00	90.00	358.00	5154.65	5451.47	1.87	0.68	5451.47	
10413.00	89.80	358.00	5154.76	5513.43	-0.29	0.32	5513.43	

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MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 0.00° Az (feet)	Comments
10475.00	89.90	357.80	5154.92	5575.39	-2.56	0.36	5575.39	
10538.00	89.80	357.70	5155.08	5638.34	-5.04	0.22	5638.34	
10601.00	90.00	357.80	5155.19	5701.29	-7.51	0.35	5701.29	
10662.00	89.60	358.20	5155.41	5762.25	-9.64	0.93	5762.25	
10724.00	90.10	357.80	5155.57	5824.22	-11.80	1.03	5824.22	
10786.00	89.00	358.50	5156.06	5886.18	-13.81	2.10	5886.18	
10848.00	88.90	359.60	5157.19	5948.16	-14.83	1.78	5948.16	
10909.00	88.80	359.40	5158.42	6009.15	-15.37	0.37	6009.15	
10971.00	89.20	359.40	5159.50	6071.13	-16.01	0.65	6071.13	
11033.00	89.40	359.10	5160.26	6133.12	-16.83	0.58	6133.12	
11142.00	89.40	359.10	5161.40	6242.10	-18.54	0.00	6242.10	

T33S-R15W

Osage
124

24

Toe - 1573'

Osage
110

CLINE-MILLS B

1

Osage
109

Osage
115 SWD

Prod Fm - 391'

25

Osage
HC3

Osage
3315 25-03 HC

Osage
HC1



Confidential

Osage 3315 25-03 HC ACO1 Map

Schematic

Barber County, KS

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