



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1228580
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: _____

1228580

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____	PRODUCTION INTERVAL: _____ _____
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WELLBORE: Lateral #1
 PLAN: Design #4
 GEODETIC SYSTEM: US State Plane 1983
 DATUM: North American Datum 1983
 ELLIPSOID: GRS 1980
 ZONE: Kansas Southern Zone
 SYSTEM DATUM: Mean Sea Level

SURFACE HOLE COORDINATES
 LATITUDE: 37° 10' 28.596 N
 LONGITUDE: 98° 46' 34.266 W
 NORTHING (Y): 1497408.28
 EASTING (X): 1231861.71

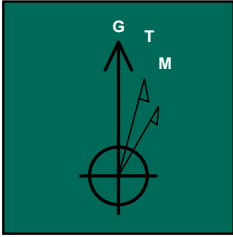
GROUND LEVEL: 1877.0
 RIG FLOOR(KB):
 WELL @ 1896.0usft (Original Well Elev)

MAGNETIC FIELD:
 STRENGTH: 51619
 DIP ANGLE: 65.14°
 MODEL: IGRF2010
 DATE: 13-Jun-14
 AZIMUTHS CORRECTED TO: Grid

MWD - USE IF ABOVE IS GRID
 Magnetic North is 4.97° East of Grid North (Magnetic Convergence)

MWD - USE IF ABOVE IS TRUE
 Magnetic North is 4.81° East of True North (Magnetic Declination)

Operator: Osage Resources, LLC
 Location: Barber Co, Kansas (NAD-83)
 Well Name: Osage #3313 18-04HC
 Calmena Job# 14097

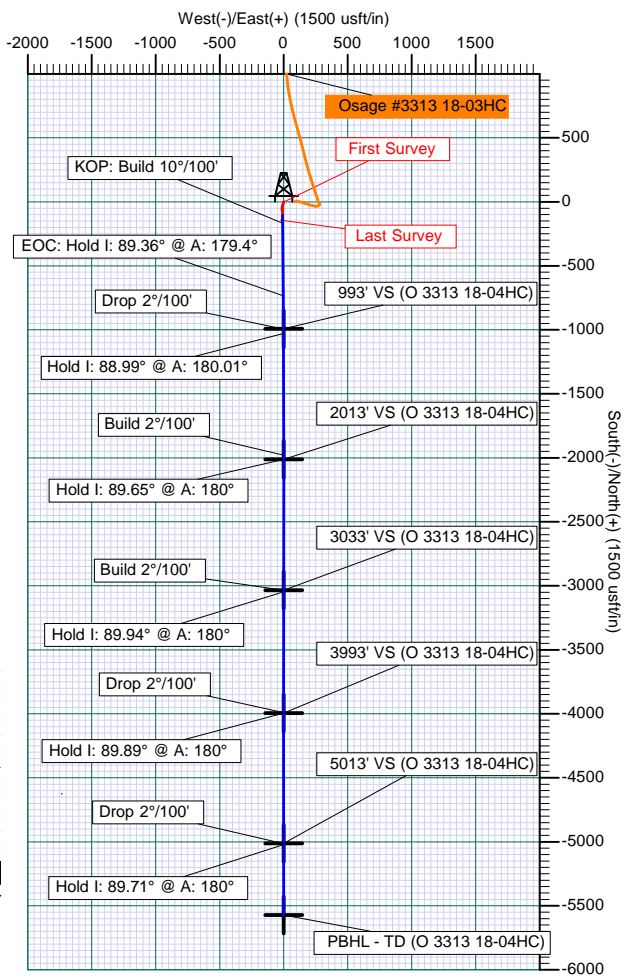
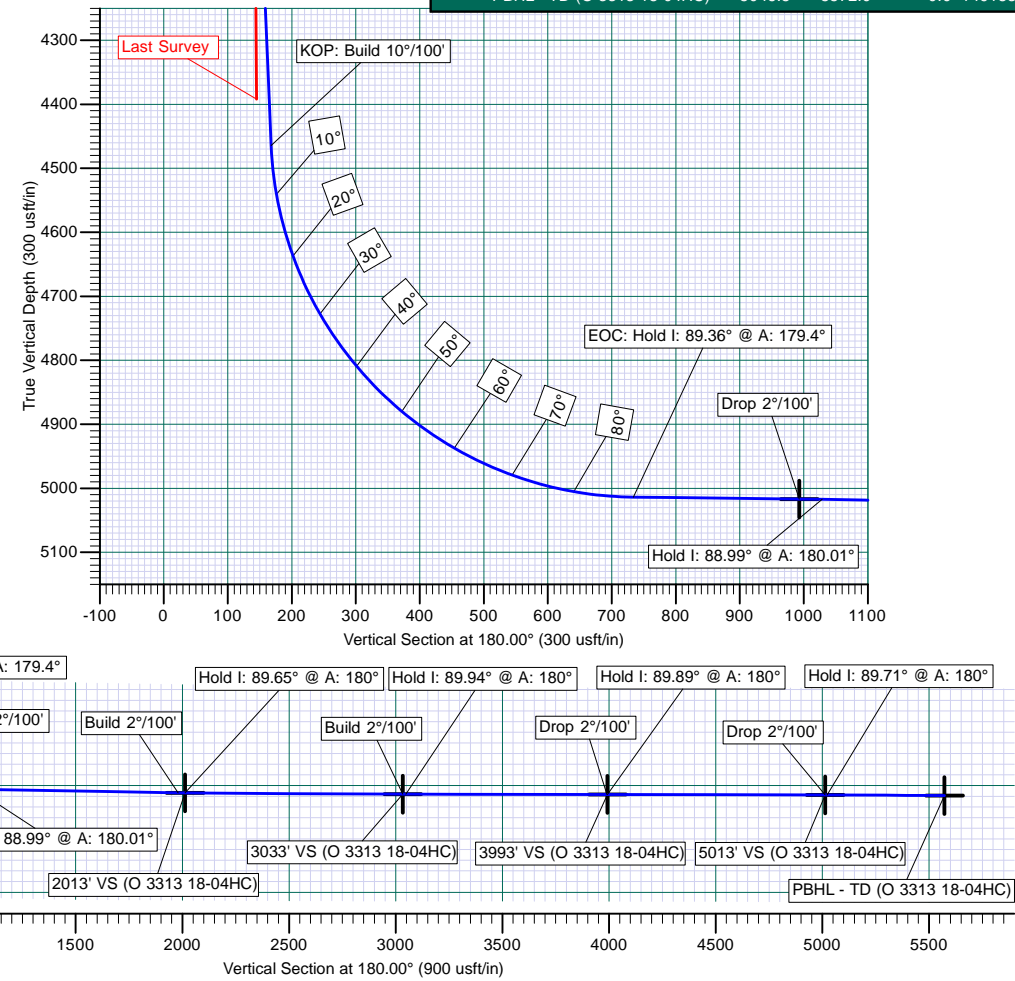
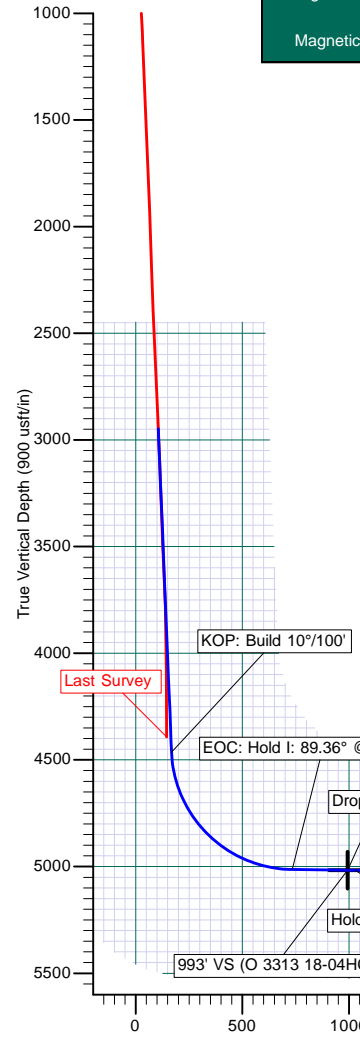


PLAN SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	2950.0	2.35	180.00	2947.8	-105.6	-8.4	0.00	0.00	105.6		
2	4467.9	2.35	180.00	4464.5	-167.8	-8.4	0.00	0.00	167.8		KOP: Build 10°/100'
3	5338.0	89.36	179.40	5013.9	-733.8	-2.7	10.00	-0.60	733.8	993' VS (O 3313 18-04HC)	EOC: Hold I: 89.36° @ A: 179.4°
4	5597.2	89.36	179.40	5016.8	-993.0	0.0	0.00	0.00	993.0		Drop 2°/100'
5	5632.8	88.99	180.01	5017.3	-1028.6	0.2	2.00	121.01	1028.6		Hold I: 88.99° @ A: 180.01°
6	6584.2	88.99	180.01	5034.1	-1979.8	0.0	0.00	0.00	1979.8		Build 2°/100'
7	6617.3	89.65	180.00	5034.5	-2013.0	0.0	2.00	-0.94	2013.0	2013' VS (O 3313 18-04HC)	Hold I: 89.65° @ A: 180°
8	7637.3	89.65	180.00	5040.7	-3033.0	0.0	0.00	0.00	3033.0	3033' VS (O 3313 18-04HC)	Build 2°/100'
9	7651.9	89.94	180.00	5040.8	-3047.5	0.0	2.00	0.00	3047.5		Hold I: 89.94° @ A: 180°
10	8594.6	89.94	180.00	5041.7	-3990.3	0.0	0.00	0.00	3990.3		Drop 2°/100'
11	8597.3	89.89	180.00	5041.7	-3993.0	0.0	2.00	180.00	3993.0	3993' VS (O 3313 18-04HC)	Hold I: 89.89° @ A: 180°
12	9617.3	89.89	180.00	5043.7	-5013.0	0.0	0.00	0.00	5013.0	5013' VS (O 3313 18-04HC)	Drop 2°/100'
13	9626.1	89.71	180.00	5043.7	-5021.8	0.0	2.00	180.00	5021.8		Hold I: 89.71° @ A: 180°
14	10176.3	89.71	180.00	5046.5	-5572.0	0.0	0.00	0.00	5572.0	PBHL - TD (O 3313 18-04HC)	

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
993' VS (O 3313 18-04HC)	5016.8	-993.0	0.0	1496415.28	1231861.71	37° 10' 18.778 N	98° 46' 34.230 W	Point
2013' VS (O 3313 18-04HC)	5034.5	-2013.0	0.0	1495395.28	1231861.71	37° 10' 8.694 N	98° 46' 34.192 W	Point
3033' VS (O 3313 18-04HC)	5040.7	-3033.0	0.0	1494375.28	1231861.71	37° 9' 58.609 N	98° 46' 34.155 W	Point
3993' VS (O 3313 18-04HC)	5041.7	-3993.0	0.0	1493415.28	1231861.71	37° 9' 49.118 N	98° 46' 34.120 W	Point
5013' VS (O 3313 18-04HC)	5043.7	-5013.0	0.0	1492395.28	1231861.71	37° 9' 39.033 N	98° 46' 34.083 W	Point
PBHL - TD (O 3313 18-04HC)	5046.5	-5572.0	0.0	1491836.28	1231861.71	37° 9' 33.506 N	98° 46' 34.062 W	Point



Company:	Osage Resources, LLC	Local Co-ordinate Reference:	Site Osage #3313 18-04HC
Project:	Barber Co, Kansas (NAD-83)	TVD Reference:	WELL @ 1896.0usft (Original Well Elev)
Site:	Osage #3313 18-04HC	MD Reference:	WELL @ 1896.0usft (Original Well Elev)
Well:	Osage #3313 18-04HC	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Project	Barber Co, Kansas (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		

Site	Osage #3313 18-04HC				
Site Position:		Northing:	1,497,408.29 usft	Latitude:	37° 10' 28.596 N
From:	Lat/Long	Easting:	1,231,861.71 usft	Longitude:	98° 46' 34.266 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.17 °

Well	Osage #3313 18-04HC					
Well Position	+N/-S	0.0 usft	Northing:	1,497,408.29 usft	Latitude:	37° 10' 28.596 N
	+E/-W	0.0 usft	Easting:	1,231,861.71 usft	Longitude:	98° 46' 34.266 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	1,896.0 usft	Ground Level:	1,877.0 usft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/13/2014	4.81	65.14	51,619

Design	Lateral #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.00	

Survey Program	Date	8/16/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
233.0	4,395.0	Survey #1 (Lateral #1)	MWD	MWD - Calmena	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
233.0	1.00	192.00	233.0	-2.0	-0.4	2.0	0.43	0.43	0.00	
First Survey										
294.0	1.00	199.30	294.0	-3.0	-0.7	3.0	0.21	0.00	11.97	
351.0	1.20	202.60	351.0	-4.0	-1.1	4.0	0.37	0.35	5.79	
439.0	1.20	203.30	438.9	-5.7	-1.8	5.7	0.02	0.00	0.80	
526.0	1.50	194.30	525.9	-7.7	-2.5	7.7	0.42	0.34	-10.34	
620.0	1.90	195.70	619.9	-10.4	-3.2	10.4	0.43	0.43	1.49	
745.0	2.30	199.50	744.8	-14.7	-4.6	14.7	0.34	0.32	3.04	
930.0	3.10	199.50	929.6	-22.9	-7.5	22.9	0.43	0.43	0.00	
991.0	2.90	192.30	990.5	-26.0	-8.4	26.0	0.70	-0.33	-11.80	

Company:	Osage Resources, LLC	Local Co-ordinate Reference:	Site Osage #3313 18-04HC
Project:	Barber Co, Kansas (NAD-83)	TVD Reference:	WELL @ 1896.0usft (Original Well Elev)
Site:	Osage #3313 18-04HC	MD Reference:	WELL @ 1896.0usft (Original Well Elev)
Well:	Osage #3313 18-04HC	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,084.0	3.00	196.20	1,083.4	-30.6	-9.6	30.6	0.24	0.11	4.19	
1,176.0	2.00	187.50	1,175.3	-34.5	-10.4	34.5	1.16	-1.09	-9.46	
1,268.0	2.10	184.70	1,267.2	-37.8	-10.8	37.8	0.15	0.11	-3.04	
1,454.0	2.30	192.70	1,453.1	-44.8	-11.9	44.8	0.20	0.11	4.30	
1,641.0	2.80	187.50	1,639.9	-53.0	-13.3	53.0	0.29	0.27	-2.78	
1,798.0	2.40	174.30	1,796.8	-60.1	-13.5	60.1	0.46	-0.25	-8.41	
2,016.0	1.90	162.30	2,014.6	-68.1	-11.9	68.1	0.31	-0.23	-5.50	
2,202.0	2.00	170.50	2,200.5	-74.2	-10.5	74.2	0.16	0.05	4.41	
2,390.0	2.50	172.20	2,388.3	-81.5	-9.4	81.5	0.27	0.27	0.90	
2,576.0	2.60	176.20	2,574.2	-89.8	-8.5	89.8	0.11	0.05	2.15	
2,762.0	2.40	181.20	2,760.0	-97.9	-8.3	97.9	0.16	-0.11	2.69	
2,948.0	2.50	180.00	2,945.8	-105.8	-8.4	105.8	0.06	0.05	-0.65	
3,135.0	2.30	177.20	3,132.7	-113.6	-8.2	113.6	0.12	-0.11	-1.50	
3,320.0	1.90	185.50	3,317.5	-120.4	-8.3	120.4	0.27	-0.22	4.49	
3,506.0	2.50	186.70	3,503.4	-127.5	-9.1	127.5	0.32	0.32	0.65	
3,693.0	2.30	189.10	3,690.2	-135.3	-10.2	135.3	0.12	-0.11	1.28	
3,880.0	1.20	191.40	3,877.1	-140.9	-11.2	140.9	0.59	-0.59	1.23	
4,065.0	0.50	234.40	4,062.1	-143.2	-12.2	143.2	0.49	-0.38	23.24	
4,395.0	0.50	234.40	4,392.1	-144.9	-14.5	144.9	0.00	0.00	0.00	
Last Survey										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
233.0	233.0	-2.0	-0.4	First Survey	
4,395.0	4,392.1	-144.9	-14.5	Last Survey	

Checked By: _____	Approved By: _____	Date: _____
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Day 8 - 2014/08/17

FILE #: OK0014097 WELL NAME: Osage 3313 18-04HC SERVICE CO.: Calmena Energy Services
 JOB TYPE: Horizontal COMPANY: Osage Resources LLC SURVEY TYPE: Positive Pulse MWD
 RIG & NO: Duke Drilling 6 SURFACE LOCATION: Barber County KS FIELD / LOCATION: Medicine Lodge-Boggs / Kansas / US

Company Man: Scott Higgins
 DIR Supervisor: Chris Garvin, Shane Lewis
 MWD Supervisor: Joe Newberry, Jeff Atwood

GROUND ELEV: 1877 ft START DEPTH: 4415.0 ft PROGRESS: 0.0 ft DAILY COST: USD\$9200.00
 KB ELEV: 1896 ft END DEPTH: 4415.0 ft AVG. ROP.: 0.0 ft/hr PREVIOUS COST: USD\$85200.00
 TOTAL COST: USD\$94400.00

WORK STATUS: Operating (All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:45	Handle Directional Tools	1.75	4415	3	20:00-20:30	Shallow Test Tools - test mwd & pumps	0.50	4415	4
01:45-18:00	Rig Repair	16.25	4415	4	20:30-21:30	POOH - See Comments - 11 Stands	1.00	4415	4
18:00-18:30	Handle Directional Tools - Stab MWD tool	0.50	4415	4	21:30-24:00	Rig Repair	2.50	4415	4
18:30-20:00	RIH - See Comments - 12 Stands	1.50	4415	4			0.00		

TIME SUMMARY (hrs):				DRILLING PARAMETERS:			
MOTOR DRILL:	0.00	ORIENTING HRS:	0.00	ROTARY DRILL:	0.00	ROTARY TORQUE:	
TIME DRILL:	0.00	ROTATING HRS:	0.00	MOTOR HRS:	0.00	WOB SLIDING (HI):	0 lbf
MOTOR REAM:	0.00	TRIP:	2.50	WOB SLIDING (LO):	0 lbf	WOB ROTATE (HI):	0 lbf
CIRC:	0.00	OTHER:	21.50	RPM (ROTARY):		WOB ROTATE (LO):	0 lbf
MOTOR HRS:	0.00	TOTAL HRS:	24.00	RPM (MOTOR):		DRAG UP:	0 lbf
DRILL HRS:	0.00					DRAG DN:	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3	HOLE SIZE: 8.75 in	SECTION TYPE: Curve	SURVEY TYPE: Positive Pulse MWD
MANFCT.: Calmena	STABILIZER: No	SERIAL#: 650-055	MODEL: 6750
SETTING: 2.3 °	KICKPAD: No	SIZE: 6 1/2" (165mm)	LOBE CFG: .6/7
MANFCT: JZ	BIT TYPE: PDC Bit	TYPE: PLd616D6	MTR HRS THIS DAY: 0
IADC BIT GRADE: ? / ? / ? / ? / ? / ? / ? / ? / ?			MTR HRS TO DATE: 7
			NOZZLES: 1.035 in ² TFA

BHA: 4	HOLE SIZE: 8.75 in	SECTION TYPE: Curve	SURVEY TYPE: Positive Pulse MWD
MANFCT.: Calmena	STABILIZER: No	SERIAL#: 650-056	MODEL: 6750
SETTING: 2.3 °	KICKPAD: No	SIZE: 6 1/2" (165mm)	LOBE CFG: .6/7
MANFCT: JZ	BIT TYPE: PDC Bit	TYPE: PLd616D6	MTR HRS THIS DAY: 0
IADC BIT GRADE: ? / ? / ? / ? / ? / ? / ? / ? / ?			MTR HRS TO DATE: 0
			NOZZLES: 1.035 in ² TFA

PUMP PARAMETERS

PRESSURE ON BTM: 0	PRESSURE OFF BTM: 0	TOTAL FLOW RATE: 0.00 gal/min
PUMP 1: TYPE: MP-10	EFF.: 95.0% SPM: 0.00	LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk
PUMP 2: TYPE: MP-10	EFF.: 95.0% 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: Gelchem	VISC: 35 sec/qt	WTR LOSS: 10 cc/30min	PV: 6 cP	YP: 10 lb/100 ft ²	pH: 10
DENSITY: 9.2 lb/gal	GEL 0/10: 8.00 lb/100 ft ²	SAND: 0	SOLIDS: 5.7	OIL: 0	TEMP: 0 °F
LIQUID BASE: Water		LIQUID RATE: 0 gal/min	GAS TYPE:		GAS RATE: 0 cu ft/min

COMMENTS:

Swapped out motors then stood back BHA string while we waited on the rig to work on pumps. Rig pumps diagnosement: two 6" liners with one 5 1/2" liner in each pump. The pumps would run together before one of the liners were changed in each pump. P/U MWD and put in the string, RIH 11 stands to test the tool and the pumps. One of the pumps clutch went out while we was testing and they needed to change a clutch on one of the floor motors. POH 11 stands with the tool inside of the casing while they fixed these problems.

CUSTOMER SIGNATURE: _____

Day 9 - 2014/08/18

FILE #: OK0014097 WELL NAME: Osage 3313 18-04HC SERVICE CO.: Calmena Energy Services
 JOB TYPE: Horizontal COMPANY: Osage Resources LLC SURVEY TYPE: Positive Pulse MWD
 RIG & NO: Duke Drilling 6 SURFACE LOCATION: Barber County KS FIELD / LOCATION: Medicine Lodge-Boggs / Kansas / US

Company Man: Scott Higgins
 DIR Supervisor: Chris Garvin, Shane Lewis
 MWD Supervisor: Joe Newberry, Jeff Atwood

GROUND ELEV: 1877 ft START DEPTH: 4415.0 ft PROGRESS: 0.0 ft DAILY COST: USD\$0.00
 KB ELEV: 1896 ft END DEPTH: 4415.0 ft AVG. ROP.: 0.0 ft/hr PREVIOUS COST: USD\$94400.00
 TOTAL COST: USD\$94400.00

WORK STATUS: Operating (All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-06:00	Rig Repair	6.00	4415	4			0.00		

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	DRAG UP:	0 lbf
CIRC:	0.00	ROTARY DRILL:	0.00	OTHER:	6.00	RPM (ROTARY):	DRAG DN:	0 lbf	
MOTOR HRS:	0.00	DRILL HRS:	0.00	TOTAL HRS:	6.00	RPM (MOTOR):			

BHA / MOTOR / BIT INFORMATION:

BHA: 4	HOLE SIZE: 8.75 in	SECTION TYPE: Curve	SURVEY TYPE: Positive Pulse MWD
MANFCT.: Calmena	STABILIZER: No	SERIAL#: 650-056	MODEL: 6750
SETTING: 2.3 °	KICKPAD: No	SIZE: 6 1/2" (165mm)	LOBE CFG: .6/7
MANFCT: JZ	BIT TYPE: PDC Bit	TYPE: PLd616D6	MTR HRS THIS DAY: 0
IADC BIT GRADE: ?/?/?/?/?/?/?/?/?			MTR HRS TO DATE: 0
			NOZZLES: 1.035 in ² TFA

PUMP PARAMETERS

PRESSURE ON BTM: 0	PRESSURE OFF BTM: 0	TOTAL FLOW RATE: 0.00 gal/min
PUMP 1: TYPE: MP-10	EFF.: 95.0% SPM: 0.00	LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk
PUMP 2: TYPE: MP-10	EFF.: 95.0% 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: Gelchem	VISC: 0 sec/qt	WTR LOSS: 0 cc/30min	PV: 0 cP	YP: 0 lb/100 ft ²	pH: 0
DENSITY: 0 lb/gal	GEL 0/10: 0.00 lb/100 ft ²	SAND: 0	SOLIDS: 0	OIL: 0	TEMP: 0 °F
LIQUID BASE: Water		LIQUID RATE: 0 gal/min	GAS TYPE:		GAS RATE: 0 cu ft/min

COMMENTS: Waiting on Rig to fix a mud pump clutch and a floor motor clutch, Calmena BHA is inside casing.

CUSTOMER SIGNATURE: _____



Slide Sheet Report

BHA 2 - 2014/08/13 TO 2014/08/15

FILE #: OK0014097
JOB TYPE: Horizontal
RIG & NO: Duke Drilling 6

WELL NAME: Osage 3313 18-04HC
COMPANY: Osage Resources LLC
SURFACE LOCATION: Barber County KS

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

Company Man: Scott Higgins
DIR Supervisor: Chris Garvin, Shane Lewis
MWD Supervisor: Joe Newberry, Jeff Atwood

BHA NO: 2	DATES RUN: 2014/08/13 TO 2014/08/15	SECTION: Vertical	TOOLFACE OFFSET:	SURVEY OFFSET: 50
MOTOR SETTING: 1.50	KICKPAD: No	STABILIZER: No	MODEL: 6750	SERIAL NO: 675-001
			BHA SURVEY TYPE: Positive Pulse MWD	

(Distances are shown in feet.)

BIT DEPTH DRILLED	SURVEY DEPTH	INC	AZM	TF	----- ORIENTING -----			----- ROTATING -----			SLIDE SEEN	BUR /	BUR COMMENTS
					FROM	TO		FROM	TO				
1912.00	154.00	1862.00	1.60	166.00	1912.00	1912.00	0.00	1912.00	2066.00	154.00	0.00	0.00	0.00
2066.00	186.00	2016.00	1.90	162.30	2066.00	2066.00	0.00	2066.00	2252.00	186.00	0.00	0.00	0.19
2252.00	188.00	2202.00	2.00	170.50	2252.00	2252.00	0.00	2252.00	2440.00	188.00	0.00	0.00	0.05
2440.00	186.00	2390.00	2.50	172.20	2440.00	2440.00	0.00	2440.00	2626.00	186.00	0.00	0.00	0.27
2626.00	186.00	2576.00	2.60	176.20	2626.00	2626.00	0.00	2626.00	2812.00	186.00	0.00	0.00	0.05
2812.00	186.00	2762.00	2.40	181.20	2812.00	2812.00	0.00	2812.00	2998.00	186.00	0.00	0.00	-0.11
2998.00	186.00	2948.00	2.50	180.00	2998.00	2998.00	0.00	2998.00	3184.00	186.00	0.00	0.00	0.05
3184.00	186.00	3134.00	2.30	177.20	3184.00	3184.00	0.00	3184.00	3370.00	186.00	0.00	0.00	-0.11
3370.00	186.00	3320.00	1.90	185.50	3370.00	3370.00	0.00	3370.00	3556.00	186.00	0.00	0.00	-0.22
3556.00	187.00	3506.00	2.50	186.70	3556.00	3556.00	0.00	3556.00	3743.00	187.00	0.00	0.00	0.32
3743.00	187.00	3693.00	2.30	189.10	3743.00	3743.00	0.00	3743.00	3930.00	187.00	0.00	0.00	-0.11
3930.00	185.00	3880.00	1.20	191.40	3930.00	3930.00	0.00	3930.00	4115.00	185.00	0.00	0.00	-0.59
4115.00	186.00	4065.00	0.50	234.40	4115.00	4115.00	0.00	4115.00	4301.00	186.00	0.00	0.00	-0.38
4301.00	0.00	4251.00	0.00	0.00	4301.00	4301.00	0.00	4301.00	4301.00	0.00	0.00	0.00	-0.27

Totals:	0.00	2389.00
Percentages:	0.0%	100.0%
Time:	0.00 hrs	42.50 hrs
Percentages:	0.0%	100.0%

Customer <i>OSSSE Resources LLC</i>		Lease No.	Date <i>9-5-2014</i>	
Lease <i>OSSSE 3313</i>		Well # <i>18-04HC</i>		
Field Order # <i>11057</i>	Station <i>Prestige</i>	Casing <i>4 1/2</i>	Depth <i>5329</i>	County <i>Berber</i> State <i>KS</i>
Type Job <i>CNU 4 1/2 Liner</i>	Formation <i>TD-10,6651</i>	Legal Description <i>18-33-13</i>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2</i>								
Depth <i>5329</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>82</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>5320</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Scott Hissins</i>	Station Manager <i>Kevin Goreley</i>	Treater <i>Darin Franklin</i>
Service Units <i>27283 27463 19960 21010</i>		
Driver Names <i>Darin Ez Cobb Cobb</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:30pm</i>					<i>On location / Safety meeting</i>
					<i>Run 5329' 4 1/2 casing</i>
					<i>2213 HW DP</i>
					<i>2771 4" DP</i>
					<i>400SX 50/50 P02 2% GEL 10% SS1+</i>
					<i>.25% defoamer .75% CTR .5% FLA-322</i>
					<i>.2% WES-1, 13.6 ppq, 1.51 veld, 7.2g wst</i>
	<i>500</i>		<i>12</i>	<i>3</i>	<i>Pump 12 bbls mud Flush</i>
	<i>500</i>		<i>5</i>	<i>3</i>	<i>5 bbls water</i>
	<i>500</i>		<i>108</i>	<i>3</i>	<i>mix 400SX Cement</i>
	<i>200</i>		<i>0</i>	<i>4</i>	<i>Shut down & wash pump & lines, Release plug</i>
	<i>1,000</i>		<i>15</i>	<i>4</i>	<i>Start displacement</i>
	<i>800</i>		<i>35</i>	<i>2</i>	<i>Slow rate</i>
	<i>2,000</i>		<i>45</i>	<i>2</i>	<i>Sheer pin</i>
	<i>1200</i>		<i>47</i>	<i>4</i>	<i>Increase Rate</i>
	<i>700</i>		<i>115</i>	<i>2</i>	<i>Fr slow rate</i>
	<i>1200</i>		<i>120</i>	<i>2</i>	<i>Bump plus</i>
					<i>Bleed off - Hold</i>
	<i>3,200</i>		<i>2</i>	<i>2</i>	<i>check seat open Bypass</i>
	<i>800</i>		<i>7</i>	<i>3</i>	<i>Increase Rate</i>

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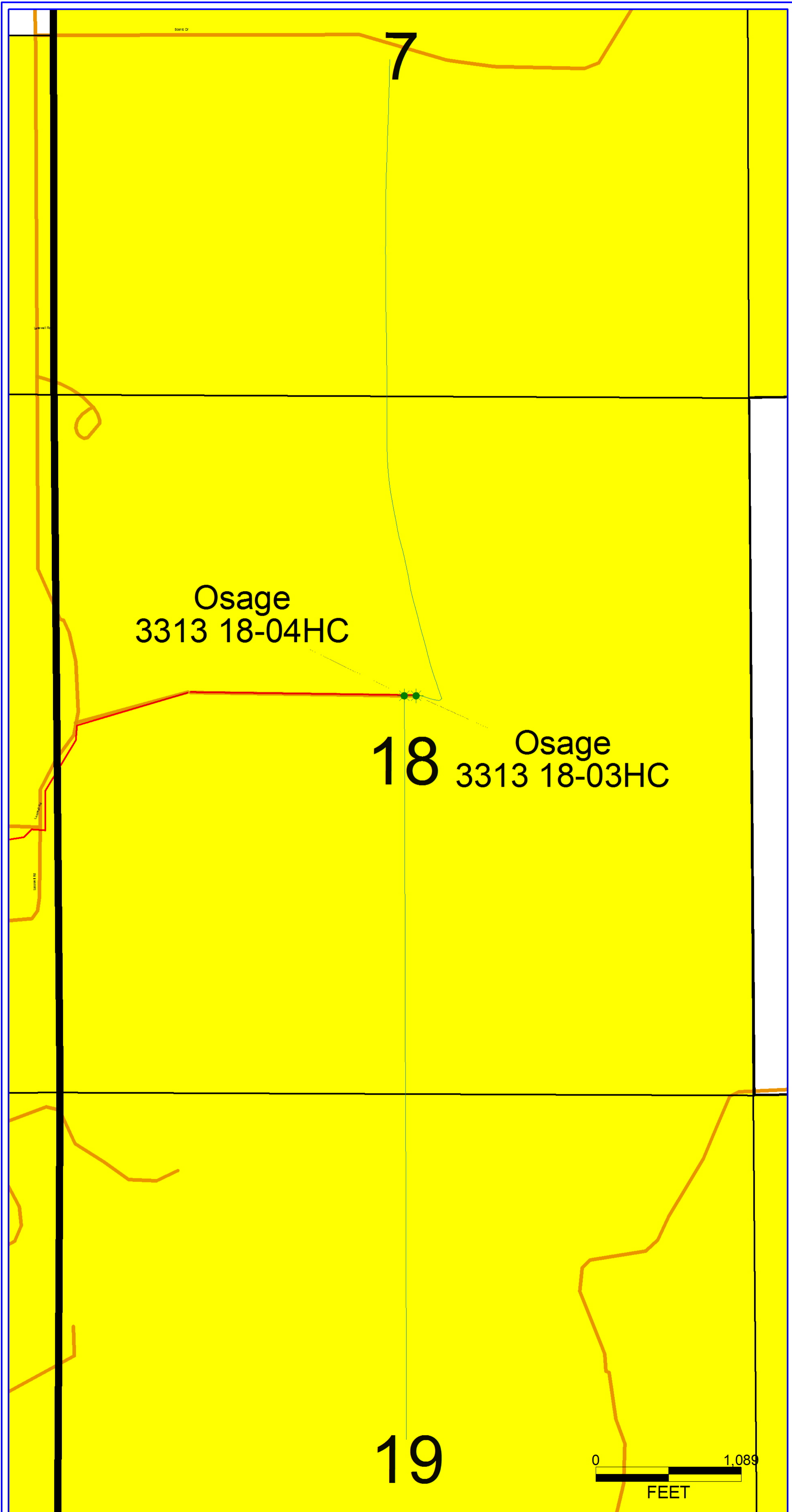
Customer	OS95e Resources LLC	Lease No.		Date	9-5-2014
Lease	OS95e 3313	Well #	18-04HC		
Field Order #	11097	Station	Pratt KS	Casing	4 1/2
Type Job	CNW/ 4 1/2 liner	Formation	TD-106651	County	Barber
		Depth		State	KS
				Legal Description	18-33-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager				Treater			
Service Units	27263	27463	19960	21010				
Driver Names	Darin	Ed	Cobb	Cobb				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					Stings out
	500		2	2	Reverse out
	1100		100	5	Increase Rate
					Shut down
					Job complete / Darin & crew
					Thank you!!!

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Osage
3313 18-04HC

18 Osage
3313 18-03HC

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