



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1215339
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: _____

1215339

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> _____
-------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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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Form	ACO1 - Well Completion
Operator	McElvain Energy, Inc.
Well Name	Kreamer 11 #4H
Doc ID	1215339

Tops

Name	Top	Datum
Stone Corral	1658	544
Base Stone Corral	1705	495
Wellington Salt	2018	182
Base Wellington	2146	54
Chase	2393	-193
Council Grove	2595	-395
Admire	2808	-608
Waubunsee	3067	-867
Topeka	3228	-1028
Heebner	3436	-1238
Toronto	3462	-1262
Lansing	3478	-1278
Base KC	3720	-1520
Marmaton	3755	-1555
Marmaton 2	3765	-1565
Marmaton 3	3775	-1575
Pawnee	3786	-1586
Pawnee Pay Top	3794	-1594
Hz Landing Point	3799	-1594
Pawnee Pay Btm	3809	-1609
Waste Zone	3809	-1609
Cherokee Shale	3816	-1616

Form	ACO1 - Well Completion
Operator	McElvain Energy, Inc.
Well Name	Kreamer 11 #4H
Doc ID	1215339

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	Stage 1 CFP: 6615'; 6577'-79'; 6539'-41'; 6501'-03'; 6', 36 shots	921 bbls water; 65310# 20/40; 740000 scf N2	Stage 1: 6615'- 6448'
6	Stage 2 CFP: 6448'; 6420'-22'; 6376'-78'; 6346'-48'; 6', 36 shots	744 bbls water; 65170# 20/40; 1006000 scf N2	Stage 2: 6448'-6315'
6	Stage 3 CFP: 6315'; 6277'-79'; 6239'-41'; 6210'-12'; 6', 36 shots	765 bbls water; 65314# 20/40; 900000 scf N2	Stage 3: 6315'-6165'
6	Stage 4 CFP: 6165'; 6127'-29'; 6089'-91'; 6051'-53'; 6', 36 shots	887 bbls water; 65313# 20/40; 894000 scf N2	Stage 4: 6165'-6007'
6	Stage 5 CFP: 6007'; 5977'-79'; 5944'-46'; 5901'-03'; 6', 36 shots	747 bbls water; 65455# 20/40; 912000 scf N2	Stage 5: 6007'-5865'
6	Stage 6 CFP: 5865'; 5827'-29'; 5789'-91'; 5751'-53'; 6', 36 shots	887 bbls water; 65313# 20/40; 894000 scf N2	Stage 6: 5865'-5725'
6	Stage 7 CFP: 5725'; 5677'-79'; 5639'-41'; 5601'-03'; 6', 36 shots	845 bbls water; 65435# 20/40; 901000 scf N2	Stage 7: 5725'-5553'
6	Stage 8 CFP: 5553'; 5517'-19'; 5480'-82'; 5451'-03'; 6', 36 shots	832 bbls water; 65123# 20/40; 904000 scf N2	Stage 8: 5553'-5415'
6	Stage 9 CFP: 5415'; 5377'-79'; 5339'-41'; 5298'-5300'; 6', 36 shots	822 bbls water; 64931# 20/40; 898000 scf N2	Stage 9: 5415'-5270'
6	Stage 10 CFP: 5270'; 5227'-29'; 5189'-91'; 5162'-65'; 6', 36 shots	708 bbls water; 65136# 20/40; 892000 scf N2	Stage 10: 5270'-5098'

Form	ACO1 - Well Completion
Operator	McElvain Energy, Inc.
Well Name	Kreamer 11 #4H
Doc ID	1215339

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	Stage 11 CFP: 5098'; 5064'-66'; 5038'-40'; 5000'-02'; 6', 36 shots	779 bbls water; 65169# 20/40; 890000 scf N2	Stage 11: 5098'-4960'
6	Stage 12 CFP: 4960'; 4927'-29'; 4888'-90'; 4844'-46'; 6', 36 shots	758 bbls water; 65169# 20/40; 899000 scf N2	Stage 12: 4960'-4815'
6	Stage 13 CFP: 4815'; 4777'-79'; 4739'-41'; 4710'-12'; 6', 36 shots	709 bbls water; 65235# 20/40; 895000 scf N2	Stage 13: 4518'-4640'
6	Stage 14 CFP: 4640'; 4708'-10'; 4574'-76'; 4540'-42'; 6', 36 shots	746 bbls water; 65078# 20/40; 888000 scf N2	Stage 14: 4640'-4508'
6	Stage 15 CFP: 4508'; 4476'-78'; 4436'-38'; 4406'-08'; 6', 36 shots	664 bbls water; 65029# 20/40; 922000 scf N2	Stage 15: 4508'-4406'

McElvain Energy, Inc

Trego County, KS

Section 11-T11S-R22W

Kraemer 11 #4H

HWD #7

Survey: Final Survey Report

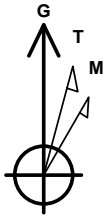
Standard Survey Report

29 May, 2014

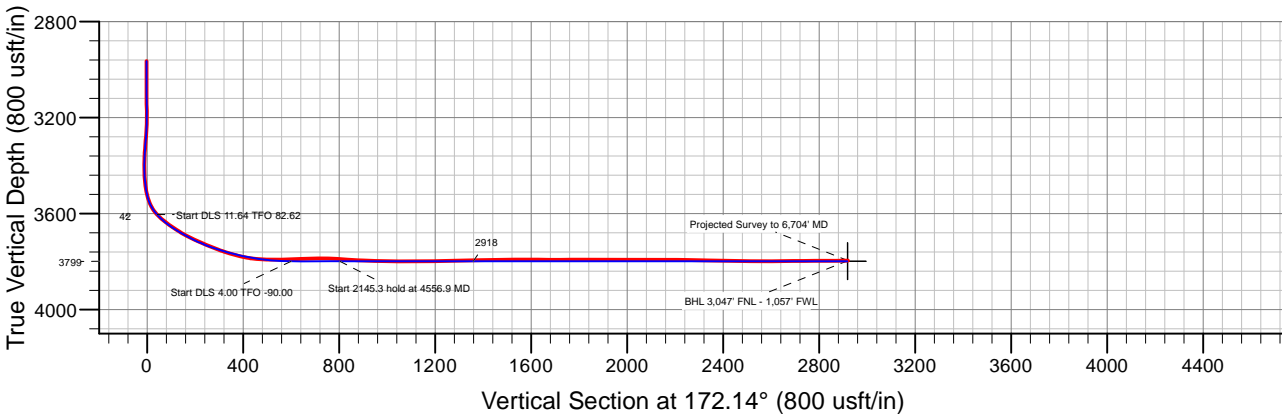
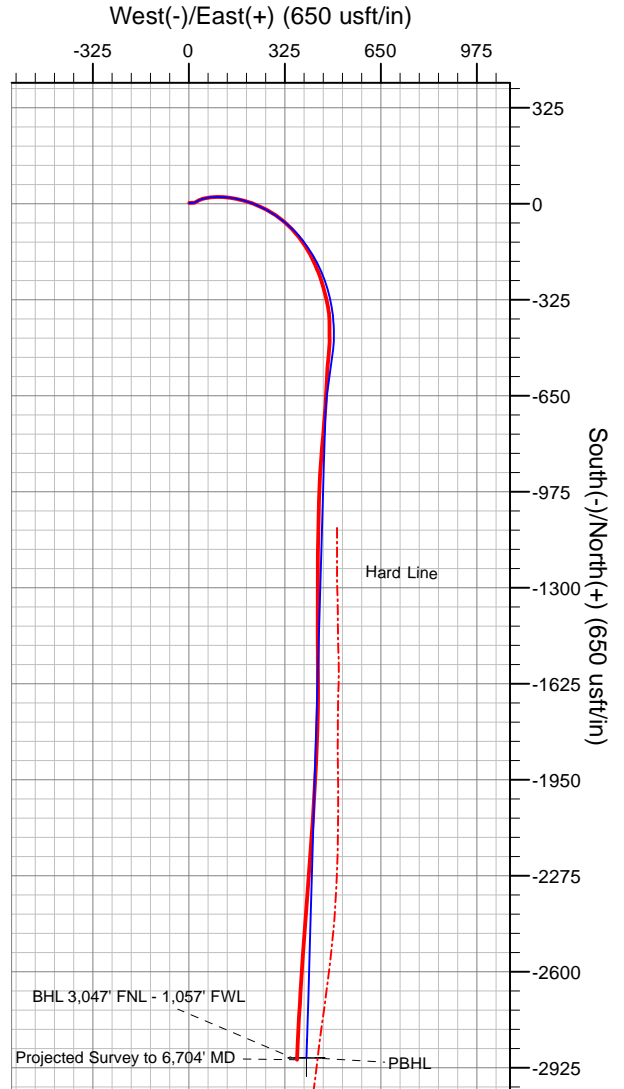
McElvain Energy, Inc
 Kraemer 11 #4H
 Trego County, KS

Geodetic System: US State Plane 1927 (Exact solution)
 Zone: Kansas North 1501
 Well @ 2199.6usft (HWD #7)
 Ground Level: 2185.1
 Latitude: 39° 7' 1.564 N
 Longitude: 99° 44' 14.959 W
 Magnetic North is 5.45° East of True North (Magnetic Declination)

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	3685.0	60.40	114.70	3604.6	-9.1	240.3	0.00	0.00	41.9
2	4348.7	90.00	190.00	3798.9	-539.4	482.7	11.64	82.62	600.3
3	4556.9	90.00	181.67	3798.9	-746.3	461.5	4.00	-90.00	802.4
4	6702.3	90.00	181.67	3798.9	-2890.7	399.0	0.00	0.00	2918.2



Azimuths to Grid North
 True North: 1.10°
 Magnetic North: 6.55°
 Magnetic Field
 Strength: 52617.2snT
 Dip Angle: 66.63°
 Date: 5/1/2014
 Model: IGRF2010



Plan: Sidetrack Final (Kraemer 11 #4H/HWD #7)

Created By: Mike Kirby Date: 8:14, May 29 2014
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: Jim McKinney Date: x

Survey Report

Company: McElvain Energy, Inc	Local Co-ordinate Reference: Well Kraemer 11 #4H
Project: Trego County, KS	TVD Reference: Well @ 2199.6usft (HWD #7)
Site: Section 11-T11S-R22W	MD Reference: Well @ 2199.6usft (HWD #7)
Well: Kraemer 11 #4H	North Reference: Grid
Wellbore: HWD #7	Survey Calculation Method: Minimum Curvature
Design: HWD #7	Database: Rocky Mountain R5000 Database

Project Trego County, KS		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Kansas North 1501		

Site Section 11-T11S-R22W			
Site Position:	Northing: 290,178.40 usft	Latitude:	39° 7' 1.564 N
From: Map	Easting: 1,507,046.40 usft	Longitude:	99° 44' 14.959 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence:	-1.10 °

Well Kraemer 11 #4H					
Well Position	+N/-S 0.0 usft	Northing: 290,178.40 usft	Latitude:	39° 7' 1.564 N	
	+E/-W 0.0 usft	Easting: 1,507,046.40 usft	Longitude:	99° 44' 14.959 W	
Position Uncertainty	0.0 usft	Wellhead Elevation: 2,199.6 usft	Ground Level:	2,185.1 usft	

Wellbore HWD #7					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/1/2014	5.45	66.63	52,617

Design HWD #7					
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	172.14	

Survey Program Date 5/29/2014					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
3,098.0	3,367.0	Original Well Surveys (HWD #7)	MWD		

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)	
2,965.0	0.10	229.90	2,964.9	2.4	1.8	-2.1	0.00	0.00	0.00	
3,010.0	0.40	79.20	3,009.9	2.4	2.0	-2.1	1.09	0.67	-334.89	
3,055.0	1.50	76.50	3,054.9	2.6	2.7	-2.2	2.45	2.44	-6.00	
3,100.0	3.20	84.90	3,099.9	2.8	4.5	-2.2	3.84	3.78	18.67	
3,145.0	5.80	89.20	3,144.7	3.0	8.0	-1.9	5.82	5.78	9.56	
3,190.0	8.60	87.80	3,189.4	3.1	13.7	-1.2	6.23	6.22	-3.11	
3,235.0	10.40	69.70	3,233.7	4.7	20.8	-1.8	7.70	4.00	-40.22	
3,280.0	13.00	58.20	3,277.8	8.8	29.0	-4.7	7.73	5.78	-25.56	
3,325.0	16.20	69.00	3,321.4	13.7	39.1	-8.2	9.31	7.11	24.00	
3,370.0	20.20	75.60	3,364.1	17.9	52.5	-10.5	9.99	8.89	14.67	

Survey Report

Company:	McElvain Energy, Inc	Local Co-ordinate Reference:	Well Kraemer 11 #4H
Project:	Trego County, KS	TVD Reference:	Well @ 2199.6usft (HWD #7)
Site:	Section 11-T11S-R22W	MD Reference:	Well @ 2199.6usft (HWD #7)
Well:	Kraemer 11 #4H	North Reference:	Grid
Wellbore:	HWD #7	Survey Calculation Method:	Minimum Curvature
Design:	HWD #7	Database:	Rocky Mountain R5000 Database

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)	
3,415.0	24.40	82.00	3,405.7	21.1	69.3	-11.4	10.77	9.33	14.22	
3,460.0	29.80	87.50	3,445.8	22.9	89.6	-10.4	13.22	12.00	12.22	
3,504.0	35.00	92.60	3,482.9	22.8	113.2	-7.1	13.34	11.82	11.59	
3,547.0	40.40	97.10	3,516.9	20.5	139.4	-1.2	14.09	12.56	10.47	
3,595.0	46.80	102.80	3,551.7	14.7	171.9	9.0	15.64	13.33	11.88	
3,640.0	54.20	109.10	3,580.3	5.1	205.2	23.0	19.66	16.44	14.00	
3,685.0	60.40	114.70	3,604.6	-9.1	240.3	41.9	17.30	13.78	12.44	
3,730.0	62.70	120.50	3,626.1	-27.4	275.3	64.8	12.43	5.11	12.89	
3,775.0	63.00	126.40	3,646.6	-49.5	308.7	91.3	11.68	0.67	13.11	
3,819.0	63.00	134.00	3,666.6	-74.8	338.6	120.4	15.39	0.00	17.27	
3,864.0	64.20	140.30	3,686.7	-104.3	366.0	153.4	12.82	2.67	14.00	
3,909.0	66.90	146.60	3,705.3	-137.2	390.4	189.3	14.08	6.00	14.00	
3,954.0	67.90	152.50	3,722.6	-173.0	411.4	227.6	12.31	2.22	13.11	
3,999.0	68.90	155.40	3,739.2	-210.6	429.8	267.4	6.39	2.22	6.44	
4,044.0	70.90	160.30	3,754.6	-249.7	445.7	308.3	11.15	4.44	10.89	
4,089.0	73.60	166.90	3,768.4	-290.8	457.7	350.7	15.20	6.00	14.67	
4,134.0	77.50	165.50	3,779.6	-333.1	468.1	394.0	9.18	8.67	-3.11	
4,179.0	82.30	175.90	3,787.5	-376.8	475.3	438.2	25.12	10.67	23.11	
4,224.0	87.80	180.20	3,791.4	-421.5	476.8	482.8	15.49	12.22	9.56	
4,269.0	90.50	179.10	3,792.1	-466.5	477.1	527.4	6.48	6.00	-2.44	
4,314.0	91.20	187.90	3,791.4	-511.4	474.3	571.5	19.62	1.56	19.56	
4,359.0	91.80	183.50	3,790.2	-556.2	469.8	615.2	9.86	1.33	-9.78	
4,404.0	92.70	182.90	3,788.5	-601.1	467.3	659.3	2.40	2.00	-1.33	
4,433.0	90.90	182.60	3,787.5	-630.0	465.9	687.8	6.29	-6.21	-1.03	
4,464.0	90.20	183.60	3,787.2	-661.0	464.3	718.2	3.94	-2.26	3.23	
4,494.0	89.00	184.10	3,787.5	-690.9	462.3	747.6	4.33	-4.00	1.67	
4,540.0	86.60	184.60	3,789.2	-736.7	458.8	792.5	5.33	-5.22	1.09	
4,585.0	86.20	184.20	3,792.0	-781.5	455.3	836.4	1.26	-0.89	-0.89	
4,630.0	86.80	185.10	3,794.8	-826.3	451.7	880.3	2.40	1.33	2.00	
4,675.0	88.00	184.30	3,796.8	-871.1	448.0	924.1	3.20	2.67	-1.78	
4,719.0	88.30	183.10	3,798.3	-914.9	445.2	967.2	2.81	0.68	-2.73	
4,764.0	89.60	181.70	3,799.1	-959.9	443.3	1,011.5	4.25	2.89	-3.11	
4,809.0	89.60	182.60	3,799.4	-1,004.9	441.6	1,055.8	2.00	0.00	2.00	
4,854.0	89.30	181.70	3,799.8	-1,049.8	439.9	1,100.1	2.11	-0.67	-2.00	
4,899.0	90.40	181.20	3,799.9	-1,094.8	438.8	1,144.5	2.69	2.44	-1.11	
4,944.0	91.70	180.60	3,799.1	-1,139.8	438.1	1,189.0	3.18	2.89	-1.33	
4,989.0	91.50	180.00	3,797.9	-1,184.8	437.8	1,233.5	1.40	-0.44	-1.33	
5,034.0	91.60	182.80	3,796.6	-1,229.7	436.7	1,277.9	6.22	0.22	6.22	
5,079.0	91.70	180.40	3,795.3	-1,274.7	435.5	1,322.3	5.34	0.22	-5.33	
5,124.0	91.70	178.70	3,794.0	-1,319.7	435.8	1,366.9	3.78	0.00	-3.78	
5,169.0	90.20	179.20	3,793.3	-1,364.7	436.6	1,411.6	3.51	-3.33	1.11	
5,214.0	90.20	179.80	3,793.1	-1,409.7	437.0	1,456.2	1.33	0.00	1.33	
5,259.0	89.90	180.30	3,793.1	-1,454.7	437.0	1,500.8	1.30	-0.67	1.11	
5,304.0	89.70	179.10	3,793.2	-1,499.7	437.2	1,545.4	2.70	-0.44	-2.67	

Survey Report

Company:	McElvain Energy, Inc	Local Co-ordinate Reference:	Well Kraemer 11 #4H
Project:	Trego County, KS	TVD Reference:	Well @ 2199.6usft (HWD #7)
Site:	Section 11-T11S-R22W	MD Reference:	Well @ 2199.6usft (HWD #7)
Well:	Kraemer 11 #4H	North Reference:	Grid
Wellbore:	HWD #7	Survey Calculation Method:	Minimum Curvature
Design:	HWD #7	Database:	Rocky Mountain R5000 Database

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)	
5,348.0	90.00	180.20	3,793.3	-1,543.7	437.5	1,589.0	2.59	0.68	2.50	
5,393.0	90.20	179.30	3,793.3	-1,588.7	437.7	1,633.6	2.05	0.44	-2.00	
5,438.0	90.20	180.10	3,793.1	-1,633.7	437.9	1,678.2	1.78	0.00	1.78	
5,483.0	90.30	180.40	3,792.9	-1,678.7	437.7	1,722.8	0.70	0.22	0.67	
5,528.0	90.20	181.00	3,792.7	-1,723.7	437.2	1,767.3	1.35	-0.22	1.33	
5,573.0	90.30	181.80	3,792.5	-1,768.6	436.1	1,811.7	1.79	0.22	1.78	
5,618.0	90.40	182.90	3,792.2	-1,813.6	434.2	1,856.0	2.45	0.22	2.44	
5,663.0	89.50	183.40	3,792.3	-1,858.5	431.8	1,900.1	2.29	-2.00	1.11	
5,708.0	89.50	180.40	3,792.7	-1,903.5	430.3	1,944.5	6.67	0.00	-6.67	
5,752.0	89.60	183.20	3,793.0	-1,947.5	428.9	1,987.8	6.37	0.23	6.36	
5,797.0	89.90	184.50	3,793.2	-1,992.4	425.9	2,031.9	2.96	0.67	2.89	
5,842.0	89.70	183.60	3,793.4	-2,037.3	422.7	2,075.9	2.05	-0.44	-2.00	
5,887.0	89.90	183.40	3,793.5	-2,082.2	419.9	2,120.0	0.63	0.44	-0.44	
5,932.0	90.20	184.50	3,793.5	-2,127.1	416.8	2,164.1	2.53	0.67	2.44	
6,022.0	89.10	183.50	3,794.0	-2,216.8	410.6	2,252.2	1.65	-1.22	-1.11	
6,067.0	89.40	184.30	3,794.6	-2,261.7	407.5	2,296.2	1.90	0.67	1.78	
6,112.0	88.90	183.80	3,795.3	-2,306.6	404.3	2,340.2	1.57	-1.11	-1.11	
6,157.0	89.00	185.00	3,796.1	-2,351.5	400.9	2,384.2	2.68	0.22	2.67	
6,201.0	88.90	184.90	3,796.9	-2,395.3	397.1	2,427.1	0.32	-0.23	-0.23	
6,246.0	89.00	184.50	3,797.8	-2,440.1	393.4	2,471.0	0.92	0.22	-0.89	
6,291.0	89.00	183.50	3,798.5	-2,485.0	390.3	2,515.1	2.22	0.00	-2.22	
6,336.0	89.50	183.80	3,799.1	-2,529.9	387.4	2,559.1	1.30	1.11	0.67	
6,381.0	90.90	184.70	3,799.0	-2,574.8	384.1	2,603.1	3.70	3.11	2.00	
6,471.0	90.40	182.20	3,797.9	-2,664.6	378.6	2,691.4	2.83	-0.56	-2.78	
6,516.0	90.40	183.50	3,797.6	-2,709.6	376.4	2,735.6	2.89	0.00	2.89	
6,561.0	90.30	183.70	3,797.4	-2,754.5	373.6	2,779.7	0.50	-0.22	0.44	
6,651.0	90.40	182.20	3,796.8	-2,844.4	368.9	2,868.1	1.67	0.11	-1.67	
6,696.1	90.40	182.20	3,796.5	-2,889.5	367.2	2,912.5	0.00	0.00	0.00	
PBHL										
6,704.0	90.40	182.20	3,796.4	-2,897.3	366.9	2,920.3	0.00	0.00	0.00	
Projected Survey to 6,704' MD - BHL 3,047' FNL - 1,057' FWL										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
6,704.0	3,796.4	-2,897.3	366.9	Projected Survey to 6,704' MD	
6,704.0	3,796.4	-2,897.3	366.9	BHL 3,047' FNL - 1,057' FWL	

Checked By: _____ Approved By: _____ Date: _____



JOB NO.:	OK-141380	Report Time:	2400	23 of 23
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Friday, May 30, 2014 at 0000 to Friday, May 30, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	6704.00	Rotary Hours	0.00	WOB	20	Pick UP	170	Slack Off	95	SPM			
End Depth	6704.00	Circulating Hours	0.00	RAB	128	SPP	2100	FlowRate	482 - 482	115			
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data									
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	6000	WL	0			Oil %	0		

PERSONNEL				CASING			BHA				
Lead Directional :	Daniel Jones			Size	Lb/ft	Set Depth	BHA # 7:Ulterra U613M, Torque Buster, 7/8-5 @ 1.50 Fixed Slick, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 71 Joints Push Pipe, 40 Joints HWDP, ,				
Second Directional :	Jason DeShazo			Signature:							
MWD Operator1	Joe Smith										
MWD Operator2	Chad Hawkins										
Directional Company:	Crescent										
Geologist:											
Company Man:	Cliff/Mark			Daily Cost			\$10,750.00				
Incl. In:	90.4	Azm. In:	182.2	Incl. Out:	90.4	Azm. Out:	182.2	Cummulative Cost:			\$260,788.00

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/30/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-May-14	00:00	06:00	6.00	6704	6704	POOH	POOH & Lay out Directional Tools
30-May-14	06:00	24:00	18.00	6704	6704	Other	Tools and Personnel on location



JOB NO.:	OK-141380	Report Time:	2400	22 of 22
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Thursday, May 29, 2014 at 0000 to Thursday, May 29, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	6704.00	Rotary Hours	0.00	WOB	20	Pick UP	170	Slack Off	95	SPM				
End Depth	6704.00	Circulating Hours	4.75	RAB	128	SPP	2100	FlowRate	482 - 482	115				
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data										
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Water Base			PV	16	SOLID	5.5			
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9	GAS	0	YP	12	BHT°	120			
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	45	SAND	0	PH	2.2	Flow T°	90			
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	6000	WL	0			Oil %	0			
PERSONNEL				CASING				BHA						
Lead Directional :	Daniel Jones			Size	Lb/ft	Set Depth		BHA # 7:Ulterra U613M, Torque Buster, 7/8-5 @ 1.50 Fixed Slick, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 71 Joints Push Pipe, 40 Joints HWDP, ,						
Second Directional :	Jason DeShazo			Signature:										
MWD Operator1	Joe Smith													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost				\$10,750.00						
Incl. In:	90.4	Azm. In:	182.2	Incl. Out:	90.4	Azm. Out:	182.2	Cummulative Cost:				\$250,038.00		

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/29/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-May-14	00:00	02:15	2.25	6704	6704	POOH	Short trip
29-May-14	02:15	06:00	3.75	6704	6704	Rig repair	Rig repair
29-May-14	06:00	11:45	5.75	6704	6704	TIH	Short Trip
29-May-14	11:45	14:00	2.25	6704	6704	Circulating	Circulating
29-May-14	14:00	17:45	3.75	6704	6704	Short Trip	Short Trip
29-May-14	17:45	20:15	2.50	6704	6704	Circulating	Circulating
29-May-14	20:15	24:00	3.75	6704	6704	POOH	POOH



JOB NO.:	OK-141380	Report Time:	2400	21 of 21
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Wednesday, May 28, 2014 at 0000 to Wednesday, May 28, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	6369.00	Rotary Hours	12.58	WOB	20	Pick UP	170	Slack Off	95	SPM			
End Depth	6704.00	Circulating Hours	3.17	RAB	128	SPP	2100	FlowRate	482 - 482	115			
Total Drilled:	335.00	Avg. Total ROP:	25.94	Mud Data									
Total Rotary Drilled:	330.00	Avg. Rotary ROP:	26.23	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	5.00	Avg. Slide ROP:	15.00	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	0.33	Percent Rotary:	98.51	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	1.49	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING			BHA						
Lead Directional :	Daniel Jones			Size	Lb/ft	Set Depth	BHA # 7:Ulterra U613M, Torque Buster, 7/8-5 @ 1.50 Fixed Slick, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 71 Joints Push Pipe, 40 Joints HWDP, ,						
Second Directional :	Jason DeShazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost			\$10,750.00						
Incl. In:	89	Azm. In:	183.5	Incl. Out:	90.4	Azm. Out:	182.2	Cummulative Cost:			\$239,288.00		

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/28/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-May-14	00:00	00:20	0.33	6369	6374	Sliding	Sliding - (WOB:32;GPM :509;TFO:10L))
28-May-14	00:20	00:55	0.58	6374	6389	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	00:55	01:10	0.25	6389	6389	Survey & Conn.	Survey & Conn.@6336_Inc 89.5°_Azm 183.8°
28-May-14	01:10	02:55	1.75	6389	6434	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	02:55	03:10	0.25	6434	6434	Survey & Conn.	Survey & Conn.@6381_Inc 90.9°_Azm 184.7°
28-May-14	03:10	05:15	2.08	6434	6479	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	05:15	05:40	0.42	6479	6479	Rig Service-Inhole	Rig Service-Inhole
28-May-14	05:40	06:00	0.33	6479	6479	Survey & Conn.	Survey & Conn.@6426_Inc 90.6°_Azm 188.4°
28-May-14	06:00	06:30	0.50	6479	6479	Circulating	Circulate Clean Hole
28-May-14	06:30	08:45	2.25	6479	6524	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	08:45	09:00	0.25	6524	6524	Survey & Conn.	Survey & Conn.@6471_Inc 90.4°_Azm 182.2°
28-May-14	09:00	10:40	1.67	6524	6569	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	10:40	10:55	0.25	6569	6569	Survey & Conn.	Survey & Conn.@6516_Inc 90.4°_Azm 183.5°
28-May-14	10:55	11:15	0.33	6569	6579	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	11:15	11:45	0.50	6579	6579	Rig Service-Inhole	Rig Service-Inhole
28-May-14	11:45	13:00	1.25	6579	6579	Other	Work On Rig
28-May-14	13:00	13:50	0.83	6579	6614	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-May-14	13:50	14:05	0.25	6614	6614	Survey & Conn.	Survey & Conn.@6561_Inc 90.3°_Azm 183.7°
28-May-14	14:05	15:35	1.50	6614	6659	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	15:35	16:00	0.42	6659	6659	Survey & Conn.	Survey & Conn.@6606_Inc 90.5°_Azm 188.5°
28-May-14	16:00	17:35	1.58	6659	6704	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
28-May-14	17:35	17:45	0.17	6704	6704	MWD Survey	MWD Survey@6651_Inc 90.4°_Azm 182.2°
28-May-14	17:45	20:15	2.50	6704	6704	Circulating	Circulating
28-May-14	20:15	24:00	3.75	6704	6704	POOH	Short trip to the shoe



JOB NO.:	OK-141380	Report Time:	2400	20 of 20
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Tuesday, May 27, 2014 at 0000 to Tuesday, May 27, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	5870.00	Rotary Hours	16.33	WOB	32	Pick UP	170	Slack Off	95	SPM	
End Depth	6369.00	Circulating Hours	2.75	RAB	128	SPP	2100	FlowRate	482 - 509	115	
Total Drilled:	499.00	Avg. Total ROP:	28.51	Mud Data							
Total Rotary Drilled:	490.00	Avg. Rotary ROP:	30.00	Type	Water Base			PV	16	SOLID	5.5
Total Drilled Sliding:	9.00	Avg. Slide ROP:	7.71	Weight	9	GAS	0	YP	12	BHT°	120
Slide Hours:	1.17	Percent Rotary:	98.20	Viscosity	45	SAND	0	PH	2.2	Flow T°	90
Below Rotary Hrs.	24.00	Percent Slide:	1.80	Chlorides	6000	WL	0			Oil %	0
PERSONNEL				CASING			BHA				
Lead Directional :	Daniel Jones			Size	Lb/ft	Set Depth	BHA # 7:Ulterra U613M, Torque Buster, 7/8-5 @ 1.50 Fixed Slick, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 71 Joints Push Pipe, 40 Joints HWDP, ,				
Second Directional :	Jason DeShazo			Signature:							
MWD Operator1	Joe Smith										
MWD Operator2	Chad Hawkins										
Directional Company:	Crescent										
Geologist:											
Company Man:	Cliff/Mark			Daily Cost			\$10,750.00				
Incl. In:	89.9	Azm. In:	184.5	Incl. Out:	89	Azm. Out:	183.5	Cummulative Cost:		\$228,538.00	

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/27/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-May-14	00:00	00:40	0.67	5870	5895	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
27-May-14	00:40	00:55	0.25	5895	5895	Survey & Conn.	Survey & Conn.@5842_Inc 89.7°_Azm 183.6°
27-May-14	00:55	01:45	0.83	5895	5940	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
27-May-14	01:45	02:00	0.25	5940	5940	Survey & Conn.	Survey & Conn.@5887_Inc 89.9°_Azm 183.4°
27-May-14	02:00	02:45	0.75	5940	5985	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
27-May-14	02:45	03:00	0.25	5985	5985	Survey & Conn.	Survey & Conn.@5932_Inc 90.2°_Azm 184.5°
27-May-14	03:00	03:30	0.50	5985	5991	Sliding	Sliding - (WOB:32;GPM :509;TFO:145R))
27-May-14	03:30	04:45	1.25	5991	6030	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
27-May-14	04:45	04:55	0.17	6030	6030	Rig Service-Inhole	Rig Service-Inhole
27-May-14	04:55	05:10	0.25	6030	6030	Survey & Conn.	Survey & Conn.@5977_Inc 89.9°_Azm 181.1°
27-May-14	05:10	06:20	1.17	6030	6075	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
27-May-14	06:20	07:45	1.42	6075	6075	Circulating	Circulating Clean Up Cycle
27-May-14	07:45	07:55	0.17	6075	6075	Survey & Conn.	Survey & Conn.@6022_Inc 89.1°_Azm 183.5°
27-May-14	07:55	09:00	1.08	6075	6120	Drilling	Drilling - (WOB:15;GPM :482;RPM:40)
27-May-14	09:00	09:15	0.25	6120	6120	Survey & Conn.	Survey & Conn.@6067_Inc 89.3°_Azm 190.6°
27-May-14	09:15	09:55	0.67	6120	6140	Drilling	Drilling - (WOB:15;GPM :482;RPM:40)
27-May-14	09:55	10:10	0.25	6140	6140	Other	Check Shot 6087' 89.2 INC 184.7 AZM

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-May-14	10:10	11:15	1.08	6140	6165	Drilling	Drilling - (WOB:15;GPM :482;RPM:40)
27-May-14	11:15	11:30	0.25	6165	6165	Rig Service-Inhole	Rig Service-Inhole
27-May-14	11:30	11:40	0.17	6165	6165	Other	Reshoot Survey @ 6067' 89.4 INC 184.3 AZM
27-May-14	11:40	11:55	0.25	6165	6165	Survey & Conn.	Survey & Conn.@6112_Inc 88.9°_Azm 183.8°
27-May-14	11:55	13:45	1.83	6165	6210	Drilling	Drilling - (WOB:20; :482;RPM:40)
27-May-14	13:45	14:00	0.25	6210	6210	Survey & Conn.	Survey & Conn.@6157_Inc 89°_Azm 185°
27-May-14	14:00	16:00	2.00	6210	6254	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
27-May-14	16:00	17:20	1.33	6254	6254	Circulating	Circulating
27-May-14	17:20	17:30	0.17	6254	6254	Survey & Conn.	Survey & Conn.@6201_Inc 88.9°_Azm 184.9°
27-May-14	17:30	17:50	0.33	6254	6254	Other	Attempted to slide
27-May-14	17:50	19:45	1.92	6254	6264	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
27-May-14	19:45	20:00	0.25	6264	6264	Survey & Conn.	Survey & Conn.@6246_Inc 89°_Azm 184.5°
27-May-14	20:00	22:10	2.17	6264	6344	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
27-May-14	22:10	22:25	0.25	6344	6344	Survey & Conn.	Survey & Conn.@6291_Inc 89°_Azm 183.5°
27-May-14	22:25	23:20	0.92	6344	6366	Drilling	Drilling - (WOB:20;GPM :482;RPM:40)
27-May-14	23:20	24:00	0.67	6366	6369	Sliding	Sliding - (WOB:32;GPM :509;TFO:160L))



JOB NO.:	OK-141380	Report Time:	2400	19 of 19
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Monday, May 26, 2014 at 0000 to Monday, May 26, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	5036.00	Rotary Hours	16.33	WOB	25	Pick UP	170	Slack Off	95	SPM			
End Depth	5870.00	Circulating Hours	0.00	RAB	128	SPP	2100	FlowRate	482 - 509	115			
Total Drilled:	834.00	Avg. Total ROP:	45.49	Mud Data									
Total Rotary Drilled:	816.00	Avg. Rotary ROP:	49.96	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	18.00	Avg. Slide ROP:	9.00	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	2.00	Percent Rotary:	97.84	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	2.16	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Daniel Jones			Size	Lb/ft	Set Depth		BHA # 7:Ulterra U613M, Torque Buster, 7/8-5 @ 1.50 Fixed Slick, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 71 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason DeShazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$10,750.00							
Incl. In:	90.2	Azm. In:	183.6	Incl. Out:	89.9	Azm. Out:	184.5	Cummulative Cost:		\$217,788.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/26/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-May-14	00:00	00:10	0.17	5036	5042	Drilling	Drilling - (WOB:22; :482;RPM:40)
26-May-14	00:10	00:30	0.33	5042	5042	Survey & Conn.	Survey & Conn.@4989_Inc 91.5°_Azm 180°
26-May-14	00:30	01:25	0.92	5042	5087	Drilling	Drilling - (WOB:22; :482;RPM:40)
26-May-14	01:25	01:45	0.33	5087	5087	Survey & Conn.	Survey & Conn.@5034_Inc 91.6°_Azm 182.8°
26-May-14	01:45	02:40	0.92	5087	5132	Drilling	Drilling - (WOB:22; :482;RPM:40)
26-May-14	02:40	03:00	0.33	5132	5132	Survey & Conn.	Survey & Conn.@5079_Inc 91.7°_Azm 180.4°
26-May-14	03:00	03:05	0.08	5132	5142	Drilling	Drilling - (WOB:22; :482;RPM:40)
26-May-14	03:05	03:35	0.50	5142	5148	Sliding	Sliding - (WOB:32; :509;TFO:0))
26-May-14	03:35	04:15	0.67	5148	5177	Drilling	Drilling - (WOB:22; :482;RPM:40)
26-May-14	04:15	04:35	0.33	5177	5177	Survey & Conn.	Survey & Conn.@5124_Inc 91.7°_Azm 178.7°
26-May-14	04:35	05:20	0.75	5177	5222	Drilling	Drilling - (WOB:22; :482;RPM:40)
26-May-14	05:20	05:30	0.17	5222	5222	Rig Service-Inhole	Rig Service-Inhole
26-May-14	05:30	05:45	0.25	5222	5222	Survey & Conn.	Survey & Conn.@5169_Inc 90.2°_Azm 179.2°
26-May-14	05:45	06:50	1.08	5222	5267	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	06:50	07:05	0.25	5267	5267	Survey & Conn.	Survey & Conn.@5214_Inc 90.2°_Azm 179.8°
26-May-14	07:05	07:55	0.83	5267	5312	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	07:55	08:10	0.25	5312	5312	Survey & Conn.	Survey & Conn.@5259_Inc 89.9°_Azm 180.3°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-May-14	08:10	09:05	0.92	5312	5357	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	09:05	09:20	0.25	5357	5357	Survey & Conn.	Survey & Conn.@5304_Inc 89.7°_Azm 179.1°
26-May-14	09:20	10:10	0.83	5357	5401	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	10:10	10:25	0.25	5401	5401	Survey & Conn.	Survey & Conn.@5348_Inc 90°_Azm 180.2°
26-May-14	10:25	11:20	0.92	5401	5446	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	11:20	11:45	0.42	5446	5446	Rig Service-Inhole	Rig Service-Inhole
26-May-14	11:45	12:00	0.25	5446	5446	Survey & Conn.	Survey & Conn.@5393_Inc 90.3°_Azm 179.3°
26-May-14	12:00	12:55	0.92	5446	5491	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	12:55	13:10	0.25	5491	5491	Survey & Conn.	Survey & Conn.@5438_Inc 90.3°_Azm 180.1°
26-May-14	13:10	14:05	0.92	5491	5536	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	14:05	14:20	0.25	5536	5536	Survey & Conn.	Survey & Conn.@5483_Inc 90.3°_Azm 180.4°
26-May-14	14:20	14:30	0.17	5536	5546	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	14:30	15:20	0.83	5546	5552	Sliding	Sliding - (WOB:32; :509;TFO:170R))
26-May-14	15:20	16:00	0.67	5552	5581	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	16:00	16:15	0.25	5581	5581	Survey & Conn.	Survey & Conn.@5528_Inc 90.2°_Azm 181°
26-May-14	16:15	17:05	0.83	5581	5626	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	17:05	17:20	0.25	5626	5626	Survey & Conn.	Survey & Conn.@5573_Inc 90.2°_Azm 0°
26-May-14	17:20	17:40	0.33	5626	5636	Drilling	Drilling - (WOB:25; :482;RPM:40)
26-May-14	17:40	18:20	0.67	5636	5642	Sliding	Sliding - (WOB:32; :509;TFO:100R))
26-May-14	18:20	18:55	0.58	5642	5671	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
26-May-14	18:55	19:10	0.25	5671	5671	Survey & Conn.	Survey & Conn.@5618_Inc 90.4°_Azm 182.9°
26-May-14	19:10	20:05	0.92	5671	5716	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
26-May-14	20:05	20:20	0.25	5716	5716	Survey & Conn.	Survey & Conn.@5663_Inc 89.5°_Azm 183.4°
26-May-14	20:20	21:15	0.92	5716	5761	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
26-May-14	21:15	21:30	0.25	5761	5761	Survey & Conn.	Survey & Conn.@5708_Inc 89.5°_Azm 180.4°
26-May-14	21:30	22:30	1.00	5761	5805	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
26-May-14	22:30	22:45	0.25	5805	5805	Survey & Conn.	Survey & Conn.@5752_Inc 89.6°_Azm 183.2°
26-May-14	22:45	23:30	0.75	5805	5850	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)
26-May-14	23:30	23:45	0.25	5850	5850	Survey & Conn.	Survey & Conn.@5797_Inc 89.9°_Azm 184.5°
26-May-14	23:45	24:00	0.25	5850	5870	Drilling	Drilling - (WOB:25;GPM :482;RPM:40)



JOB NO.:	OK-141380	Report Time:	2400	18 of 19
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Sunday, May 25, 2014 at 0000 to Sunday, May 25, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	4468.00	Rotary Hours	12.00	WOB	22	Pick UP	160	Slack Off	132	SPM	
End Depth	5036.00	Circulating Hours	0.00	RAB	138	SPP	1975	FlowRate	482 - 509	115	
Total Drilled:	568.00	Avg. Total ROP:	28.88	Mud Data							
Total Rotary Drilled:	494.00	Avg. Rotary ROP:	41.17	Type	Water Base		PV	16	SOLID	5.5	
Total Drilled Sliding:	74.00	Avg. Slide ROP:	9.65	Weight	9	GAS	0	YP	12	BHT°	120
Slide Hours:	7.67	Percent Rotary:	86.97	Viscosity	45	SAND	0	PH	2.2	Flow T°	90
Below Rotary Hrs.	24.00	Percent Slide:	13.03	Chlorides	6000	WL	0		Oil %	0	

PERSONNEL				CASING			BHA		
Lead Directional :	Daniel Jones			Size	Lb/ft	Set Depth	BHA # 7:Ulterra U613M, Torque Buster, 7/8-5 @ 1.50 Fixed Slick, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 71 Joints Push Pipe, 40 Joints HWDP, ,		
Second Directional :	Jason DeShazo			Signature:					
MWD Operator1	Joe Smith								
MWD Operator2	Chad Hawkins								
Directional Company:	Crescent								
Geologist:									
Company Man:	Cliff/Mark			Daily Cost	\$10,750.00				
Incl. In:	92.7	Azm. In:	182.9	Incl. Out:	91.7	Azm. Out:	180.6	Cummulative Cost:	\$207,038.00

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/25/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-May-14	00:00	01:00	1.00	4468	4486	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	01:00	01:20	0.33	4486	4486	Survey & Conn.	Survey & Conn.@4433_Inc 90.9°_Azm 182.6°
25-May-14	01:20	02:30	1.17	4486	4492	Sliding	Sliding - (WOB:32;GPM :509;TFO:150R))
25-May-14	02:30	02:50	0.33	4492	4497	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	02:50	03:50	1.00	4497	4506	Sliding	Sliding - (WOB:32;GPM :509;TFO:180))
25-May-14	03:50	04:15	0.42	4506	4517	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	04:15	04:45	0.50	4517	4517	Rig Service-Inhole	Rig Service-Inhole
25-May-14	04:45	05:05	0.33	4517	4517	Survey & Conn.	Survey & Conn.@4464_Inc 90.2°_Azm 183.6°
25-May-14	05:05	05:40	0.58	4517	4524	Sliding	Sliding - (WOB:32;GPM :509;TFO:150R)
25-May-14	05:40	06:25	0.75	4524	4547	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	06:25	06:35	0.17	4547	4547	Survey & Conn.	Survey & Conn.@4494_Inc 89°_Azm 184.1°
25-May-14	06:35	07:30	0.92	4547	4593	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	07:30	07:40	0.17	4593	4593	Survey & Conn.	Survey & Conn.@4540_Inc 86.6°_Azm 184.6°
25-May-14	07:40	08:05	0.42	4593	4618	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	08:05	08:15	0.17	4618	4618	Other	Check Shot 4565' 86.4 INC 184 AZM
25-May-14	08:15	08:40	0.42	4618	4638	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	08:40	08:55	0.25	4638	4638	Survey & Conn.	Survey & Conn.@4585_Inc 86.2°_Azm 184.2°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-May-14	08:55	10:30	1.58	4638	4654	Sliding	Sliding - (WOB:32;GPM :509;TFO:20L))
25-May-14	10:30	11:10	0.67	4654	4683	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	11:10	11:20	0.17	4683	4683	Survey & Conn.	Survey & Conn.@4630_Inc 86.8°_Azm 185.1°
25-May-14	11:20	12:10	0.83	4683	4728	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	12:10	12:20	0.17	4728	4728	Survey & Conn.	Survey & Conn.@4675_Inc 88°_Azm 184.3°
25-May-14	12:20	14:05	1.75	4728	4744	Sliding	Sliding - (WOB:32;GPM :509;TFO:20L))
25-May-14	14:05	14:45	0.67	4744	4772	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	14:45	15:00	0.25	4772	4772	Rig Service-Inhole	Rig Service-Inhole
25-May-14	15:00	15:15	0.25	4772	4772	Survey & Conn.	Survey & Conn.@4719_Inc 88.3°_Azm 183.1°
25-May-14	15:15	16:20	1.08	4772	4817	Drilling	Drilling - (WOB:22;GPM :482;RPM:25)
25-May-14	16:20	16:35	0.25	4817	4817	Survey & Conn.	Survey & Conn.@4764_Inc 89.6°_Azm 181.7°
25-May-14	16:35	17:20	0.75	4817	4862	Drilling	Drilling - (WOB:22; :482;RPM:25)
25-May-14	17:20	17:35	0.25	4862	4862	Survey & Conn.	Survey & Conn.@4809_Inc 89.6°_Azm 182.6°
25-May-14	17:35	18:20	0.75	4862	4872	Sliding	Sliding - (WOB:32; :509;TFO:45L))
25-May-14	18:20	19:25	1.08	4872	4907	Drilling	Drilling - (WOB:22; :482;RPM:25)
25-May-14	19:25	19:45	0.33	4907	4907	Survey & Conn.	Survey & Conn.@4854_Inc 89.3°_Azm 181.7°
25-May-14	19:45	20:00	0.25	4907	4917	Drilling	Drilling - (WOB:22; :482;RPM:25)
25-May-14	20:00	20:50	0.83	4917	4927	Sliding	Sliding - (WOB:32; :509;TFO:50L))
25-May-14	20:50	21:30	0.67	4927	4952	Drilling	Drilling - (WOB:22; :482;RPM:25)
25-May-14	21:30	21:50	0.33	4952	4952	Survey & Conn.	Survey & Conn.@4899_Inc 90.4°_Azm 181.2°
25-May-14	21:50	22:50	1.00	4952	4997	Drilling	Drilling - (WOB:22; :482;RPM:25)
25-May-14	22:50	23:15	0.42	4997	4997	Survey & Conn.	Survey & Conn.@4944_Inc 91.7°_Azm 180.6°
25-May-14	23:15	24:00	0.75	4997	5036	Drilling	Drilling - (WOB:22; :482;RPM:25)



JOB NO.:	OK-141380	Report Time:	2400	17 of 17
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Saturday, May 24, 2014 at 0000 to Saturday, May 24, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	4240.00	Rotary Hours	3.00	WOB	22	Pick UP	160	Slack Off	132	SPM				
End Depth	4365.00	Circulating Hours	0.00	RAB	138	SPP	1960	FlowRate	425 - 509	104				
Total Drilled:	125.00	Avg. Total ROP:	25.86	Mud Data										
Total Rotary Drilled:	105.00	Avg. Rotary ROP:	35.00	Type	Water Base			PV	16	SOLID	5.5			
Total Drilled Sliding:	20.00	Avg. Slide ROP:	10.91	Weight	9	GAS	0	YP	12	BHT°	120			
Slide Hours:	1.83	Percent Rotary:	84.00	Viscosity	45	SAND	0	PH	2.2	Flow T°	90			
Below Rotary Hrs.	6.00	Percent Slide:	16.00	Chlorides	6000	WL	0			Oil %	0			
PERSONNEL				CASING				BHA						
Lead Directional :	Cam Carter / Daniel Jones			Size	Lb/ft	Set Depth		BHA # 6: U713M, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,						
Second Directional :	Jason Deshazo			Signature: [Redacted]										
MWD Operator1	Joe Smith													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost										
Incl. In:	82.3	Azm. In:	175.9	Incl. Out:	90.5	Azm. Out:	179.1	Cummulative Cost:	\$191,138.00					

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/24/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-May-14	00:00	00:55	0.92	4240	4250	Sliding	Sliding - (WOB:32;GPM :509;TFO:40R))
24-May-14	00:55	01:55	1.00	4250	4275	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
24-May-14	01:55	02:25	0.50	4275	4275	Rig Service-Inhole	Rig Service-Inhole
24-May-14	02:25	02:45	0.33	4275	4275	Survey & Conn.	Survey & Conn. @4224_Inc 87.8°_Azm 180.2°
24-May-14	02:45	03:40	0.92	4275	4285	Sliding	Sliding - (WOB:32;GPM :509;TFO:20R))
24-May-14	03:40	04:55	1.25	4285	4320	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
24-May-14	04:55	05:15	0.33	4320	4320	Survey & Conn.	Survey & Conn. @4269_Inc 90.5°_Azm 179.1°
24-May-14	05:15	06:00	0.75	4320	4365	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)



JOB NO.:	OK-141380	Report Time:	2400	16 of 17
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Friday, May 23, 2014 at 0000 to Friday, May 23, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	4017.00	Rotary Hours	1.42	WOB	32	Pick UP	160	Slack Off	132	SPM			
End Depth	4240.00	Circulating Hours	0.00	RAB	138	SPP	1960	FlowRate	425 - 509	104			
Total Drilled:	223.00	Avg. Total ROP:	11.74	Mud Data									
Total Rotary Drilled:	17.00	Avg. Rotary ROP:	12.00	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	206.00	Avg. Slide ROP:	11.72	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	17.58	Percent Rotary:	7.62	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	92.38	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter / Daniel Jones			Size	Lb/ft	Set Depth		BHA # 6: U713M, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature: _____									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$10,750.00							
Incl. In:	67.9	Azm. In:	152.5	Incl. Out:	82.3	Azm. Out:	175.9	Cummulative Cost:	\$191,138.00				

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/23/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-May-14	00:00	03:05	3.08	4017	4017	TIH	TIH
23-May-14	03:05	05:30	2.42	4017	4021	Sliding	Sliding - (WOB:32;GPM :509;TFO:60R))
23-May-14	05:30	06:00	0.50	4021	4023	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
23-May-14	06:00	08:40	2.67	4023	4046	Sliding	Sliding - (WOB:32;GPM :509;TFO:40R))
23-May-14	08:40	08:50	0.17	4046	4046	Other	Check Shot @ 3995 Inc 68.9, Azm 155.4
23-May-14	08:50	09:05	0.25	4046	4050	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
23-May-14	09:05	09:20	0.25	4050	4050	Survey & Conn.	Survey & Conn. @3999_Inc 68.9°_Azm 155.4°
23-May-14	09:20	11:25	2.08	4050	4095	Sliding	Sliding - (WOB:32;GPM :509;TFO:45R))
23-May-14	11:25	11:40	0.25	4095	4095	Survey & Conn.	Survey & Conn. @4044_Inc 70.9°_Azm 160.3°
23-May-14	11:40	13:00	1.33	4095	4133	Sliding	Sliding - (WOB:32;GPM :509;TFO:40R))
23-May-14	13:00	13:15	0.25	4133	4140	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
23-May-14	13:15	13:40	0.42	4140	4140	Rig Service-Inhole	Rig Service-Inhole
23-May-14	13:40	13:55	0.25	4140	4140	Survey & Conn.	Survey & Conn. @4089_Inc 73.6°_Azm 166.9°
23-May-14	13:55	19:30	5.58	4140	4181	Sliding	Sliding - (WOB:32;GPM :509;TFO:40R))
23-May-14	19:30	19:55	0.42	4181	4185	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
23-May-14	19:55	20:10	0.25	4185	4185	Survey & Conn.	Survey & Conn. @4134_Inc 77.5°_Azm 165.5°
23-May-14	20:10	23:00	2.83	4185	4230	Sliding	Sliding - (WOB:32;GPM :509;TFO:40R))

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-May-14	23:00	23:20	0.33	4230	4230	Survey & Conn.	Survey & Conn. @4179_Inc 82.3°_Azm 175.9°
23-May-14	23:20	24:00	0.67	4230	4240	Sliding	Sliding - (WOB:32;GPM :509;TFO:20R))



JOB NO.:	OK-141380	Report Time:	2400	15 of 15
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Thursday, May 22, 2014 at 0000 to Thursday, May 22, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3985.00	Rotary Hours	0.58	WOB	32	Pick UP	160	Slack Off	132	SPM			
End Depth	4017.00	Circulating Hours	0.17	RAB	138	SPP	1960	FlowRate	425 - 509	104			
Total Drilled:	32.00	Avg. Total ROP:	2.82	Mud Data									
Total Rotary Drilled:	7.00	Avg. Rotary ROP:	12.00	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	25.00	Avg. Slide ROP:	2.33	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	10.75	Percent Rotary:	21.88	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	78.13	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter / Daniel Jones			Size	Lb/ft	Set Depth		BHA # 6: U713M, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$14,700.00							
Incl. In:	66.9	Azm. In:	146.6	Incl. Out:	67.9	Azm. Out:	152.5	Cummulative Cost:	\$180,388.00				

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/22/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
22-May-14	00:00	01:20	1.33	3985	3989	Sliding	Sliding - (WOB:32;GPM :425;TFO:70R))
22-May-14	01:20	01:45	0.42	3989	3989	Other	Work Pipe to attempt to clean hole
22-May-14	01:45	03:45	2.00	3989	3998	Sliding	Sliding - (WOB:32;GPM :509;TFO:70R)
22-May-14	03:45	04:20	0.58	3998	4005	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
22-May-14	04:20	04:50	0.50	4005	4005	Rig Service-Inhole	Rig Service-Inhole
22-May-14	04:50	05:10	0.33	4005	4005	Survey & Conn.	Survey & Conn.@3954_Inc 67.9°_Azm 152.5°
22-May-14	05:10	12:35	7.42	4005	4017	Sliding	Sliding - (WOB:32;GPM :509;TFO:60R))
22-May-14	12:35	17:30	4.92	4017	4017	POOH	Trip out of the hole due ROP
22-May-14	17:30	17:55	0.42	4017	4017	Change BHA	Lay down BHA #5
22-May-14	17:55	21:00	3.08	4017	4017	Other	Wait on Directional motor
22-May-14	21:00	22:15	1.25	4017	4017	Other	Strap Motor and P/U BHA #6 - Scribe - Make up Bit #6
22-May-14	22:15	22:30	0.25	4017	4017	MWDRun	P/U MWD
22-May-14	22:30	22:45	0.25	4017	4017	TIH	Install Rotating head
22-May-14	22:45	22:55	0.17	4017	4017	Circulating	Surface @ 65 Strokes holding 630psi
22-May-14	22:55	24:00	1.08	4017	4017	TIH	TIH



JOB NO.:	OK-141380	Report Time:	2400	14 of 14
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Wednesday, May 21, 2014 at 0000 to Wednesday, May 21, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3817.00	Rotary Hours	2.58	WOB	32	Pick UP	140	Slack Off	132	SPM			
End Depth	3985.00	Circulating Hours	0.00	RAB	136	SPP	1300	FlowRate	425 - 675	86			
Total Drilled:	168.00	Avg. Total ROP:	7.52	Mud Data									
Total Rotary Drilled:	29.00	Avg. Rotary ROP:	11.23	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	139.00	Avg. Slide ROP:	7.04	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	19.75	Percent Rotary:	17.26	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	82.74	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 5:U713M, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost				\$10,750.00					
Incl. In:	60.4	Azm. In:	114.7	Incl. Out:	66.9	Azm. Out:	146.6	Cummulative Cost:				\$165,688.00	

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/22/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
21-May-14	00:00	00:10	0.17	3817	3821	Sliding	Sliding - (WOB:40;GPM :425;TFO:80R)
21-May-14	00:10	00:35	0.42	3821	3826	Drilling	Drilling - (WOB:18;GPM :675;RPM:15)
21-May-14	00:35	00:50	0.25	3826	3826	Survey & Conn.	Survey & Conn.@3775_Inc 63°_Azm 126.4°
21-May-14	00:50	02:30	1.67	3826	3846	Sliding	Sliding - (WOB:40;GPM :425;TFO:80R)
21-May-14	02:30	02:40	0.17	3846	3846	Other	Check shot @ 3,795' Inc 62.9 Az 130.1
21-May-14	02:40	05:00	2.33	3846	3864	Sliding	Sliding - (WOB:40;GPM :425;TFO:80R))
21-May-14	05:00	05:45	0.75	3864	3870	Drilling	Drilling - (WOB:18;GPM :675;RPM:15)
21-May-14	05:45	06:05	0.33	3870	3870	Survey & Conn.	Survey & Conn.@3819_Inc 63°_Azm 134°
21-May-14	06:05	10:05	4.00	3870	3905	Sliding	Sliding - (WOB:40;GPM :425;TFO:70R))
21-May-14	10:05	10:10	0.08	3905	3905	Other	Check Shot @ 3838 Inc 63.3, Azm 137.2
21-May-14	10:10	10:45	0.58	3905	3915	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
21-May-14	10:45	11:00	0.25	3915	3915	Rig Service-Inhole	Rig Service-Inhole
21-May-14	11:00	11:15	0.25	3915	3915	Survey & Conn.	Survey & Conn.@3864_Inc 64.2°_Azm 140.3°
21-May-14	11:15	14:35	3.33	3915	3954	Sliding	Sliding - (WOB:32;GPM :425;TFO:70R))
21-May-14	14:35	14:40	0.08	3954	3954	Other	Check Shot @ 3883 Inc 65.5 Azm 143.5
21-May-14	14:40	15:05	0.42	3954	3960	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
21-May-14	15:05	15:20	0.25	3960	3960	Survey & Conn.	Survey & Conn.@3909_Inc 66.9°_Azm 146.6°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
21-May-14	15:20	19:15	3.92	3960	3965	Sliding	Sliding - (WOB:32;GPM :425;TFO:70R)
21-May-14	19:15	19:40	0.42	3965	3967	Drilling	Drilling - (WOB:22;GPM :425;RPM:15)
21-May-14	19:40	24:00	4.33	3967	3985	Sliding	Sliding - (WOB:32;GPM :425;TFO:70R)



JOB NO.:	OK-141380	Report Time:	2400	13 of 13
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Tuesday, May 20, 2014 at 0000 to Tuesday, May 20, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3722.00	Rotary Hours	2.50	WOB	40	Pick UP	140	Slack Off	132	SPM			
End Depth	3817.00	Circulating Hours	2.67	RAB	136	SPP	1300	FlowRate	425 - 675	86			
Total Drilled:	95.00	Avg. Total ROP:	8.14	Mud Data									
Total Rotary Drilled:	23.00	Avg. Rotary ROP:	9.20	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	72.00	Avg. Slide ROP:	7.85	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	9.17	Percent Rotary:	24.21	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	75.79	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 5:U713M, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$9,000.00							
Incl. In:	54.2	Azm. In:	109.1	Incl. Out:	60.4	Azm. Out:	114.7	Cummulative Cost:	\$128,870.00				

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/20/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
20-May-14	00:00	00:45	0.75	3722	3726	Sliding	Sliding - (WOB:40;GPM :425;TFO:70R)
20-May-14	00:45	02:00	1.25	3726	3736	Drilling	Drilling - (WOB:18;GPM :675;RPM:15)
20-May-14	02:00	02:20	0.33	3736	3736	Survey & Conn.	Survey & Conn.@3685_Inc 60.4°_Azm 114.7°
20-May-14	02:20	05:45	3.42	3736	3751	Sliding	Sliding - (WOB:40;GPM :425;TFO:70R)
20-May-14	05:45	07:00	1.25	3751	3751	Circulating	Circulating
20-May-14	07:00	10:00	3.00	3751	3751	POOH	POOH
20-May-14	10:00	10:30	0.50	3751	3751	Change BHA	C/O Bit
20-May-14	10:30	10:45	0.25	3751	3751	Other	P/U Rotating Head
20-May-14	10:45	11:00	0.25	3751	3751	Circulating	Test MWD-Good
20-May-14	11:00	14:30	3.50	3751	3751	TIH	TIH
20-May-14	14:30	15:40	1.17	3751	3751	Circulating	Circulating while pumping sweeps to clean and condition the well bore
20-May-14	15:40	17:15	1.58	3751	3768	Sliding	Sliding - (WOB:40;GPM :425;TFO:70R))
20-May-14	17:15	18:30	1.25	3768	3781	Drilling	Drilling - (WOB:18;GPM :675;RPM:15)
20-May-14	18:30	20:05	1.58	3781	3781	Rig Service-Inhole	Rig Service-Inhole
20-May-14	20:05	20:25	0.33	3781	3781	Survey & Conn.	Survey & Conn.@3730_Inc 62.7°_Azm 120.5°
20-May-14	20:25	23:25	3.00	3781	3801	Sliding	Sliding - (WOB:40;GPM :425;TFO:80R)
20-May-14	23:25	23:35	0.17	3801	3801	Other	Check shot @ 3,750' Inc 62.7 Az 123.4

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
20-May-14	23:35	24:00	0.42	3801	3817	Sliding	Sliding - (WOB:40;GPM :425;TFO:80R)



JOB NO.:	OK-141380	Report Time:	2400	12 of 12
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Monday, May 19, 2014 at 0000 to Monday, May 19, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3558.00	Rotary Hours	0.58	WOB	40	Pick UP	140	Slack Off	132	SPM			
End Depth	3722.00	Circulating Hours	1.00	RAB	136	SPP	1300	FlowRate	425 - 675	86			
Total Drilled:	164.00	Avg. Total ROP:	8.30	Mud Data									
Total Rotary Drilled:	5.00	Avg. Rotary ROP:	8.57	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	159.00	Avg. Slide ROP:	8.30	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	19.17	Percent Rotary:	3.05	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	96.95	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 4:FHi 280, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$9,000.00							
Incl. In:	35	Azm. In:	92.6	Incl. Out:	54.2	Azm. Out:	109.1	Cummulative Cost:		\$119,870.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/19/14

Started with full slides at 30-40 Right tool faces. Took the first survey seeing full slides with the new motor (2.12°) and the motor was yielding 17's. Started backing the slides back down and holding a 50-60 Right tool faces.

At approximately 3,720' the ROP dropped down to 1.5 fph. We back reamed a few times attempting to clean the hole. The ROP never got any better, company man decided to perform a short trip (10 joints).

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
19-May-14	00:00	00:50	0.83	3558	3558	Circulating	Re-Log F/ 3,538' T/ 3,558'
19-May-14	00:50	04:45	3.92	3558	3601	Sliding	Sliding - (WOB:31;GPM :425;TFO:40R)
19-May-14	04:45	04:55	0.17	3601	3601	MWD Survey	MWD Survey@3550_Inc 40.4°_Azm 97.1°
19-May-14	04:55	05:25	0.50	3601	3601	Rig Service-Inhole	Rig Service-Inhole
19-May-14	05:25	05:30	0.08	3601	3601	Connection	Connection
19-May-14	05:30	08:45	3.25	3601	3646	Sliding	Sliding - (WOB:34;GPM :425;TFO:40R))
19-May-14	08:45	09:00	0.25	3646	3646	Survey & Conn.	Survey & Conn.@3595_Inc 46.8°_Azm 102.8°
19-May-14	09:00	13:45	4.75	3646	3686	Sliding	Sliding - (WOB:34;GPM :425;TFO:40R)
19-May-14	13:45	14:20	0.58	3686	3691	Drilling	Drilling - (WOB:18;GPM :675;RPM:15)
19-May-14	14:20	14:45	0.42	3691	3691	Rig Service-Inhole	Rig Service-Inhole
19-May-14	14:45	15:00	0.25	3691	3691	Survey & Conn.	Survey & Conn.@3640_Inc 54.2°_Azm 109.1°
19-May-14	15:00	22:15	7.25	3691	3722	Sliding	Sliding - (WOB:40;GPM :425;TFO:40R))
19-May-14	22:15	24:00	1.75	3722	3722	Short Trip	Short Trip (10 joints) to help clean the hole



JOB NO.:	OK-141380	Report Time:	2400	11 of 12
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Sunday, May 18, 2014 at 0000 to Sunday, May 18, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3444.00	Rotary Hours	0.00	WOB	31	Pick UP	140	Slack Off	132	SPM			
End Depth	3558.00	Circulating Hours	9.25	RAB	136	SPP	1300	FlowRate	425 - 425	86			
Total Drilled:	114.00	Avg. Total ROP:	13.03	Mud Data									
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	114.00	Avg. Slide ROP:	13.03	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	8.75	Percent Rotary:	.00	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	100.00	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 4:FHi 280, 7/8-5 @ 2.12 Fixed w/ 8 1/4 KP, UBHO Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$12,000.00							
Incl. In:	20.2	Azm. In:	75.6	Incl. Out:	35	Azm. Out:	92.6	Cummulative Cost:		\$110,870.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/18/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
18-May-14	00:00	01:40	1.67	3444	3469	Sliding	Sliding - (WOB:25;GPM :425;TFO:40R)
18-May-14	01:40	02:20	0.67	3469	3469	Survey & Conn.	Survey & Conn.@3415_Inc 24.4°_Azm 82°
18-May-14	02:20	05:25	3.08	3469	3514	Sliding	Sliding - (WOB:25;GPM :425;TFO:40R)
18-May-14	05:25	05:45	0.33	3514	3514	Survey & Conn.	Survey & Conn.@3460_Inc 29.8°_Azm 87.5°
18-May-14	05:45	09:45	4.00	3514	3558	Sliding	Sliding - (WOB:31;GPM :425;TFO:40R))
18-May-14	09:45	10:00	0.25	3558	3558	Survey & Conn.	Survey & Conn.@3504_Inc 35°_Azm 92.6°
18-May-14	10:00	11:30	1.50	3558	3558	Circulating	Circulating
18-May-14	11:30	14:15	2.75	3558	3558	POOH	POOH
18-May-14	14:15	15:00	0.75	3558	3558	Other	L/O BHA#3
18-May-14	15:00	15:15	0.25	3558	3558	Change BHA	P/U Motor & Bit
18-May-14	15:15	15:30	0.25	3558	3558	MWDRun	Scribe & Load MWD
18-May-14	15:30	15:45	0.25	3558	3558	TIH	P/U Rotating Head
18-May-14	15:45	16:00	0.25	3558	3558	Circulating	Test MWD-Good
18-May-14	16:00	16:30	0.50	3558	3558	TIH	TIH T/ 3,288'
18-May-14	16:30	24:00	7.50	3558	3558	Circulating	Re-Log F/ 3,288' T/ 3,538'



JOB NO.:	OK-141380	Report Time:	2400	10 of 10
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Saturday, May 17, 2014 at 0000 to Saturday, May 17, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3237.00	Rotary Hours	2.33	WOB	25	Pick UP	140	Slack Off	132	SPM			
End Depth	3444.00	Circulating Hours	0.17	RAB	136	SPP	1300	FlowRate	425 - 675	86			
Total Drilled:	207.00	Avg. Total ROP:	9.78	Mud Data									
Total Rotary Drilled:	16.00	Avg. Rotary ROP:	6.86	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	191.00	Avg. Slide ROP:	10.14	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	18.83	Percent Rotary:	7.73	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	92.27	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 3:FHi280 (ReRun), 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$9,000.00							
Incl. In:	0.4	Azm. In:	79.2	Incl. Out:	20.2	Azm. Out:	75.6	Cummulative Cost:		\$98,870.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/17/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
17-May-14	00:00	00:15	0.25	3237	3239	Sliding	Sliding - (WOB:25;GPM :425;TFO:70))
17-May-14	00:15	01:00	0.75	3239	3244	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
17-May-14	01:00	01:20	0.33	3244	3244	Survey & Conn.	Survey & Conn.@3190_Inc 8.6°_Azm 87.8°
17-May-14	01:20	03:50	2.50	3244	3284	Sliding	Sliding - (WOB:25;GPM :425;TFO:70))
17-May-14	03:50	04:30	0.67	3284	3289	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
17-May-14	04:30	05:00	0.50	3289	3289	Rig Service-Inhole	Rig Service-Inhole
17-May-14	05:00	05:20	0.33	3289	3289	Survey & Conn.	Survey & Conn.@3235_Inc 10.4°_Azm 69.7°
17-May-14	05:20	08:30	3.17	3289	3331	Sliding	Sliding - (WOB:25;GPM :425;TFO:50R))
17-May-14	08:30	09:00	0.50	3331	3334	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
17-May-14	09:00	09:15	0.25	3334	3334	Survey & Conn.	Survey & Conn.@3280_Inc 13°_Azm 58.2°
17-May-14	09:15	15:15	6.00	3334	3376	Sliding	Sliding - (WOB:25;GPM :425;TFO:40R))
17-May-14	15:15	15:40	0.42	3376	3379	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
17-May-14	15:40	16:00	0.33	3379	3379	Rig Service-Inhole	Rig Service-Inhole
17-May-14	16:00	16:15	0.25	3379	3379	Survey & Conn.	Survey & Conn.@3325_Inc 16.2°_Azm 69°
17-May-14	16:15	21:05	4.83	3379	3424	Sliding	Sliding - (WOB:25;GPM :425;TFO:40R)
17-May-14	21:05	21:15	0.17	3424	3424	MWD Survey	MWD Survey@3370_Inc 20.2°_Azm 75.6°
17-May-14	21:15	21:45	0.50	3424	3424	Rig Service-Inhole	Rig Service-Inhole

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
17-May-14	21:45	21:55	0.17	3424	3424	Connection	Connection
17-May-14	21:55	24:00	2.08	3424	3444	Sliding	Sliding - (WOB:25;GPM :425;TFO:40R)



JOB NO.:	OK-141380	Report Time:	2400	9 of 10
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Friday, May 16, 2014 at 0000 to Friday, May 16, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	3077.00	Rotary Hours	3.50	WOB	25	Pick UP	140	Slack Off	132	SPM			
End Depth	3237.00	Circulating Hours	0.00	RAB	136	SPP	1300	FlowRate	425 - 675	86			
Total Drilled:	160.00	Avg. Total ROP:	7.03	Mud Data									
Total Rotary Drilled:	37.00	Avg. Rotary ROP:	10.57	Type	Water Base			PV	16	SOLID	5.5		
Total Drilled Sliding:	123.00	Avg. Slide ROP:	6.39	Weight	9	GAS	0	YP	12	BHT°	120		
Slide Hours:	19.25	Percent Rotary:	23.13	Viscosity	45	SAND	0	PH	2.2	Flow T°	90		
Below Rotary Hrs.	24.00	Percent Slide:	76.88	Chlorides	6000	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 3:FHi280 (ReRun), 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,					
Second Directional :	Jason Deshazo			Signature:									
MWD Operator1	Joe Smith												
MWD Operator2	Chad Hawkins												
Directional Company:	Crescent												
Geologist:													
Company Man:	Cliff/Mark			Daily Cost		\$9,000.00							
Incl. In:	0.4	Azm. In:	79.2	Incl. Out:	0.4	Azm. Out:	79.2	Cummulative Cost:	\$89,870.00				

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/16/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
16-May-14	00:00	07:35	7.58	3077	3084	Sliding	Time drilling @ 1" / 3 minutes
16-May-14	07:35	07:50	0.25	3084	3084	Other	Check Shot @ 3030 0.9 INC. 79.9 AZM.
16-May-14	07:50	10:00	2.17	3084	3094	Sliding	Sliding - (WOB:25;GPM :425;TFO:90M))
16-May-14	10:00	11:30	1.50	3094	3109	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
16-May-14	11:30	11:45	0.25	3109	3109	Survey & Conn.	Survey & Conn.@3055_Inc 1.5°_Azm 76.5°
16-May-14	11:45	16:10	4.42	3109	3143	Sliding	Sliding - (WOB:25;GPM :425;TFO:110M))
16-May-14	16:10	17:15	1.08	3143	3154	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
16-May-14	17:15	17:30	0.25	3154	3154	Rig Service-Inhole	Rig Service-Inhole
16-May-14	17:30	17:45	0.25	3154	3154	Survey & Conn.	Survey & Conn.@3100_Inc 3.2°_Azm 84.9°
16-May-14	17:45	20:40	2.92	3154	3188	Sliding	Sliding - (WOB:25;GPM :425;TFO:110M))
16-May-14	20:40	21:35	0.92	3188	3199	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
16-May-14	21:35	21:50	0.25	3199	3199	Survey & Conn.	Survey & Conn.@3145_Inc 5.8°_Azm 89.2°
16-May-14	21:50	24:00	2.17	3199	3237	Sliding	Sliding - (WOB:25;GPM :425;TFO:115M))



JOB NO.:	OK-141380	Report Time:	2400	9 of 9
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Friday, May 16, 2014 at 0000 to Friday, May 16, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	3077.00	Rotary Hours	0.00	WOB	5	Pick UP	140	Slack Off	132	SPM				
End Depth	3084.00	Circulating Hours	0.00	RAB	136	SPP	1300	FlowRate	425 - 425		86			
Total Drilled:	7.00	Avg. Total ROP:	1.17	Mud Data										
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Water Base			PV	0	SOLID	0			
Total Drilled Sliding:	7.00	Avg. Slide ROP:	1.17	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	6.00	Percent Rotary:	.00	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	6.00	Percent Slide:	100.00	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 3:FHi280 (ReRun), 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,							
Second Directional :	Jason Deshazo			Signature:										
MWD Operator1	Joe Smith													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost										
Incl. In:	0.4	Azm. In:	79.2	Incl. Out:	0.4	Azm. Out:	79.2	Cummulative Cost:	\$80,870.00					

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/16/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
16-May-14	00:00	06:00	6.00	3077	3084	Sliding	Time drilling @ 1" / 3 minutes



JOB NO.:	OK-141380	Report Time:	2400	8 of 8
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Thursday, May 15, 2014 at 0000 to Thursday, May 15, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters											
Start Depth	3053.00	Rotary Hours	0.00	WOB	5	Pick UP	140	Slack Off	132	SPM					
End Depth	3077.00	Circulating Hours	0.00	RAB	136	SPP	1300	FlowRate	425 - 425		86				
Total Drilled:	24.00	Avg. Total ROP:	1.02	Mud Data											
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Water Base			PV	0	SOLID	0				
Total Drilled Sliding:	24.00	Avg. Slide ROP:	1.02	Weight	0	GAS	0	YP	0	BHT°	0				
Slide Hours:	23.58	Percent Rotary:	.00	Viscosity	0	SAND	0	PH	0	Flow T°	0				
Below Rotary Hrs.	24.00	Percent Slide:	100.00	Chlorides	0	WL	0			Oil %	0				
PERSONNEL				CASING			BHA								
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 3:FHi280 (ReRun), 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,								
Second Directional :	Jason Deshazo			Signature:											
MWD Operator1	Joe Smith														
MWD Operator2	Chad Hawkins														
Directional Company:	Crescent														
Geologist:															
Company Man:	Cliff/Mark			Daily Cost			\$9,000.00								
Incl. In:	0.1	Azm. In:	229.2	Incl. Out:	0.4	Azm. Out:	79.2	Cummulative Cost:			\$80,870.00				

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/15/14

We are currently retrieving 100% Formation samples.
Still "Time Drilling" 1" / 3 minutes until further notice.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
15-May-14	00:00	10:30	10.50	3053	3064	Sliding	Time Drilling @ 1" / 3 minutes
15-May-14	10:30	10:45	0.25	3064	3064	Survey & Conn.	Survey & Conn.@3010_Inc .4° Azm 79.2°
15-May-14	10:45	20:55	10.17	3064	3074	Sliding	Time Drilling @ 1" / 3 minutes
15-May-14	20:55	21:05	0.17	3074	3074	Other	Check shot @ 3,020' Inc. 0.7 Az 81.3
15-May-14	21:05	24:00	2.92	3074	3077	Sliding	Time Drilling @ 1" / 3 minutes



JOB NO.:	OK-141380	Report Time:	2400	7 of 8
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Wednesday, May 14, 2014 at 0000 to Wednesday, May 14, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	3008.00	Rotary Hours	0.00	WOB	2	Pick UP	140	Slack Off	132	SPM				
End Depth	3053.00	Circulating Hours	0.17	RAB	136	SPP	1880	FlowRate	230 - 675	60				
Total Drilled:	45.00	Avg. Total ROP:	2.22	Mud Data										
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Water Base			PV	0	SOLID	0			
Total Drilled Sliding:	45.00	Avg. Slide ROP:	2.22	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	20.25	Percent Rotary:	.00	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	100.00	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 3:FHi280 (ReRun), 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,							
Second Directional :	Jason Deshazo			Signature: _____										
MWD Operator1	Joe Smith													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost			\$9,000.00							
Incl. In:	0	Azm. In:	0	Incl. Out:	0.1	Azm. Out:	229.2	Cummulative Cost:			\$71,870.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/14/14

We had progressed the timed drilling to 1" / 1 minute. A conference call was conducted by McElevain to slow down the time drilling back to 1" / 3 minutes due to the high percentage of cement found in samples the Mud Loggers were retrieving. We will continue to keep this 1" / 3 minutes time drilling until further notice.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
14-May-14	00:00	00:20	0.33	3008	3008	TIH	Install Rotating head
14-May-14	00:20	00:30	0.17	3008	3008	Circulating	Surface test MWD @ 58 strks holding 415psi
14-May-14	00:30	03:30	3.00	3008	3008	TIH	Tripping into the hole w/ BHA #3
14-May-14	03:30	11:35	8.08	3008	3019	Sliding	Time Drill 1" / 4 minutes
14-May-14	11:35	11:50	0.25	3019	3019	Survey & Conn.	Survey & Conn. @2965_Inc .1°_Azm 229.2°
14-May-14	11:50	17:00	5.17	3019	3028	Sliding	Time Drill 3 Minutes an 1"
14-May-14	17:00	19:45	2.75	3028	3036	Sliding	Time Drill 1" / 2 minutes
14-May-14	19:45	22:10	2.42	3036	3048	Sliding	Time Drill 1" / 2 minutes
14-May-14	22:10	24:00	1.83	3048	3053	Sliding	Time Drill 1" / 3 minutes



JOB NO.:	OK-141380	Report Time:	2400	6 of 7
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	HWD #7	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:	11-T11S-R22W	
WELL NAME:	Kraemer 11-4H			

From Tuesday, May 13, 2014 at 0000 to Tuesday, May 13, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	2924.00	Rotary Hours	1.75	WOB	2	Pick UP	140	Slack Off	132	SPM				
End Depth	3000.00	Circulating Hours	0.92	RAB	136	SPP	1880	FlowRate	230 - 675	60				
Total Drilled:	76.00	Avg. Total ROP:	43.43	Mud Data										
Total Rotary Drilled:	76.00	Avg. Rotary ROP:	43.43	Type	Water Base			PV	0	SOLID	0			
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	.00	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 3:FHi280 (ReRun), 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,							
Second Directional :	Jason Deshazo			Signature: _____										
MWD Operator1	Joe Smith													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost			\$12,000.00							
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:			\$62,870.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/13/14

Once the MWD Tool had exited the NMDC, the MWD Engineer tried to move the "Lower End" of the MWD Tool and was unsuccessful. After investigating the reason for the MWD Tool failure and the reason of why the MWD Engineer was unable to move the "Lower End," cement was found inside the "pulser" on the MWD Tool.

I have attached pictures to the email that I have sent Mike Kirby showing the cement that was found inside the "Pulser" and that had been died with "Phenolphthalein."

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-May-14	00:00	09:05	9.08	2924	2924	Other	Wait on Cement
13-May-14	09:05	10:50	1.75	2924	3000	Drilling Cement	Drilling - (WOB:10;GPM :675;RPM:20)
13-May-14	10:50	18:05	7.25	3000	3008	Other	Time drill @ 5 minutes/ inch
13-May-14	18:05	19:00	0.92	3008	3008	Circulating	Circulating to trip out of the hole due to MWD Failure
13-May-14	19:00	22:00	3.00	3008	3008	POOH	Trip out of the hole
13-May-14	22:00	23:45	1.75	3008	3008	Change BHA	Change BHA / P/U new motor, scribe / Make up Bit #3
13-May-14	23:45	24:00	0.25	3008	3008	MWDRun	Pick up New MWD & EM Tool



JOB NO.:	OK-141380	Report Time:	2400	5 of 6
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	Super Single	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:		
WELL NAME:	Kraemer 11-4H			

From Monday, May 12, 2014 at 0000 to Monday, May 12, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	2900.00	Rotary Hours	3.42	WOB	6	Pick UP	140	Slack Off	132	SPM				
End Depth	3451.00	Circulating Hours	1.25	RAB	136	SPP	1880	FlowRate	230 - 675	60				
Total Drilled:	24.00	Avg. Total ROP:	7.02	Mud Data										
Total Rotary Drilled:	24.00	Avg. Rotary ROP:	7.02	Type	Water Base			PV	0	SOLID	0			
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	.00	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING				BHA						
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth		BHA # 2:FHi280, 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,						
Second Directional :	Jason Deshazo			Signature: _____										
MWD Operator1	Joe Smith/Dirk													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost		\$10,500.00								
Incl. In:	20.4	Azm. In:	249.5	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$50,870.00					

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/12/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-May-14	00:00	01:00	1.00	3451	3451	Other	Pull 17 stands out of the hole
12-May-14	01:00	02:00	1.00	3451	3451	Circulating	Circulated one bottoms up to clean cement out of drill pipe
12-May-14	02:00	05:15	3.25	3451	3451	POOH	Trip out of hole to pick up Directional Tools
12-May-14	05:15	06:20	1.08	3451	3451	Change BHA	Change BHA
12-May-14	06:20	06:40	0.33	3451	3451	MWDRUN	P/U MWD & EM Tool
12-May-14	06:40	06:50	0.17	3451	3451	Other	Install Rotating Head
12-May-14	06:50	07:05	0.25	3451	3451	Circulating	Surface Test 58 strokes holding 410 psi
12-May-14	07:05	09:00	1.92	3451	3451	TIH	TIH to the Shoe
12-May-14	09:00	13:00	4.00	3451	3451	Other	Wait on Cement
12-May-14	13:00	13:40	0.67	3451	3451	TIH	TIH
12-May-14	13:40	15:30	1.83	3451	3451	Drilling Cement	Drilling - (WOB:10;GPM :250;RPM:20)
12-May-14	15:30	15:45	0.25	3451	3451	Other	Wait on Co. Mans Orders
12-May-14	15:45	15:55	0.17	3451	3451	Other	L/O 2 Joints
12-May-14	15:55	17:40	1.75	3451	3451	Other	Wait on Cement
12-May-14	17:40	17:50	0.17	3451	3451	TIH	P/U 2 Joints then TIH
12-May-14	17:50	18:40	0.83	2900	2907	Drilling Cement	Drilling - (WOB:6;GPM :675;RPM:20)
12-May-14	18:40	22:00	3.33	2907	2907	Other	Wait on Cement

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-May-14	22:00	22:45	0.75	2907	2924	Drilling Cement	P/ U 2 Joints / Drilling - (WOB:6;GPM :675;RPM:20)
12-May-14	22:45	24:00	1.25	2924	2924	Other	Lay down 2 Joints / Wait on Cement



JOB NO.:	OK-141380	Report Time:	2400	4 of 5
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	Super Single	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:		
WELL NAME:	Kraemer 11-4H			

From Sunday, May 11, 2014 at 0000 to Sunday, May 11, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	3275.00	Rotary Hours	0.50	WOB	18	Pick UP	140	Slack Off	132	SPM				
End Depth	3451.00	Circulating Hours	0.92	RAB	136	SPP	1880	FlowRate	675 - 675	112				
Total Drilled:	176.00	Avg. Total ROP:	22.47	Mud Data										
Total Rotary Drilled:	5.00	Avg. Rotary ROP:	10.00	Type	Water Base			PV	0	SOLID	0			
Total Drilled Sliding:	171.00	Avg. Slide ROP:	23.32	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	7.33	Percent Rotary:	2.84	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	97.16	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 1:Ulterra U713M, 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,							
Second Directional :	Jason Deshazo			Signature: _____										
MWD Operator1	Joe Smith/Dirk Lockoad													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost			\$9,000.00							
Incl. In:	7.6	Azm. In:	211.5	Incl. Out:	20.4	Azm. Out:	249.5	Cummulative Cost:			\$40,370.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/11/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-May-14	00:00	00:35	0.58	3275	3285	Sliding	Sliding - (WOB:28;GPM :675;TFO:120M))
11-May-14	00:35	00:50	0.25	3285	3288	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
11-May-14	00:50	01:05	0.25	3288	3288	Survey & Conn.	Survey & Conn.@3233_Inc 8.3°_Azm 229.9°
11-May-14	01:05	02:40	1.58	3288	3330	Sliding	Sliding - (WOB:28;GPM :675;TFO:120M))
11-May-14	02:40	02:55	0.25	3330	3332	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
11-May-14	02:55	03:10	0.25	3332	3332	Survey & Conn.	Survey & Conn.@3277_Inc 11.3°_Azm 243.9°
11-May-14	03:10	03:25	0.25	3332	3332	Rig Service-Inhole	Rig Service-Inhole
11-May-14	03:25	05:00	1.58	3332	3377	Sliding	Sliding - (WOB:28;GPM :675;TFO:60L)
11-May-14	05:00	05:15	0.25	3377	3377	Survey & Conn.	Survey & Conn.@3322_Inc 15.4°_Azm 248.4°
11-May-14	05:15	06:50	1.58	3377	3422	Sliding	Sliding - (WOB:18;GPM :675;TFO:0)
11-May-14	06:50	07:05	0.25	3422	3422	Survey & Conn.	Survey & Conn.@3367_Inc 20.4°_Azm 249.5°
11-May-14	07:05	09:05	2.00	3422	3451	Sliding	Sliding - (WOB:18;GPM :675;TFO:0)
11-May-14	09:05	10:00	0.92	3451	3451	Circulating	Circulating
11-May-14	10:00	12:45	2.75	3451	3451	POOH	Trip out of hole to check scribe on BHA
11-May-14	12:45	13:15	0.50	3451	3451	POOH	Lay out EM & MWD Tool
11-May-14	13:15	13:30	0.25	3451	3451	Other	Check scribe - Everything was good
11-May-14	13:30	15:15	1.75	3451	3451	Other	Wait on Company Man's orders

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-May-14	15:15	15:30	0.25	3451	3451	POOH	Lay down BHA #1
11-May-14	15:30	24:00	8.50	3451	3451	TIH	Trip into the hole to circulate and wait on cement trucks



JOB NO.:	OK-141380	Report Time:	2400	3 of 4
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	Super Single	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:		
WELL NAME:	Kraemer 11-4H			

From Saturday, May 10, 2014 at 0000 to Saturday, May 10, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	3051.00	Rotary Hours	2.17	WOB	28	Pick UP	140	Slack Off	132	SPM				
End Depth	3275.00	Circulating Hours	0.00	RAB	136	SPP	1880	FlowRate	0 - 675	112				
Total Drilled:	224.00	Avg. Total ROP:	13.24	Mud Data										
Total Rotary Drilled:	33.00	Avg. Rotary ROP:	15.23	Type	Water Base			PV	0	SOLID	0			
Total Drilled Sliding:	191.00	Avg. Slide ROP:	12.95	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	14.75	Percent Rotary:	14.73	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	85.27	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 1:Ulterra U713M, 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,							
Second Directional :	Jason Deshazo			Signature: _____										
MWD Operator1	Joe Smith/Dirk Lockoad													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost			\$9,000.00							
Incl. In:	0	Azm. In:	0	Incl. Out:	7.6	Azm. Out:	211.5	Cummulative Cost:			\$31,370.00			

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/10/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-May-14	00:00	03:10	3.17	3051	3051	TIH	TIH
10-May-14	03:10	03:45	0.58	3051	3054	Sliding	Sliding - (WOB:30;GPM :675;TFO:120M))
10-May-14	03:45	04:40	0.92	3054	3054	Rig repair	Rig repair
10-May-14	04:40	06:00	1.33	3054	3063	Sliding	Sliding - (WOB:30;GPM :675;TFO:120M)
10-May-14	06:00	07:25	1.42	3063	3063	Rig repair	Work on Stand Pipe
10-May-14	07:25	07:40	0.25	3063	3063	Connection	Connection
10-May-14	07:40	11:50	4.17	3063	3098	Sliding	Sliding - (WOB:30;GPM :675;TFO:120M)
10-May-14	11:50	12:35	0.75	3098	3107	Drilling	Sliding - (WOB:18;GPM :675;TFO:0))
10-May-14	12:35	12:50	0.25	3107	3107	Connection	Connection
10-May-14	12:50	15:00	2.17	3107	3142	Sliding	Sliding - (WOB:28;GPM :675;TFO:120M))
10-May-14	15:00	15:55	0.92	3142	3153	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
10-May-14	15:55	16:15	0.33	3153	3153	Rig Service-Inhole	Rig Service-Inhole
10-May-14	16:15	16:30	0.25	3153	3153	Survey & Conn.	Survey & Conn.@3098_Inc 3.1°_Azm 181.5°
10-May-14	16:30	19:00	2.50	3153	3188	Sliding	Sliding - (WOB:28;GPM :675;TFO:120M))
10-May-14	19:00	19:20	0.33	3188	3198	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
10-May-14	19:20	19:35	0.25	3198	3198	Survey & Conn.	Survey & Conn.@3143_Inc 5.1°_Azm 206.3°
10-May-14	19:35	21:35	2.00	3198	3240	Sliding	Sliding - (WOB:28;GPM :675;TFO:110M))

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-May-14	21:35	21:45	0.17	3240	3243	Drilling	Drilling - (WOB:18;GPM :675;RPM:20)
10-May-14	21:45	22:00	0.25	3243	3243	Survey & Conn.	Survey & Conn.@3188_Inc 7.6°_Azimuth 211.5°
10-May-14	22:00	24:00	2.00	3243	3275	Sliding	Sliding - (WOB:28;GPM :675;TFO:120M))



JOB NO.:	OK-141380	Report Time:	2400	2 of 3
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	Super Single	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:		
WELL NAME:	Kraemer 11-4H			

From Friday, May 09, 2014 at 0000 to Friday, May 09, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	0	Slack Off	0	SPM				
End Depth	3051.00	Circulating Hours	0.25	RAB	0	SPP	0	FlowRate	0-0					
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data										
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type		PV	0	SOLID	0					
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°	0			
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°	0			
Below Rotary Hrs.	4.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0			
PERSONNEL				CASING			BHA							
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	BHA # 1:Ulterra U713M, 7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, X-Over 4 1/2 Pin, 4 1/2 XH Box, UBHO Sub, NMDC, NM Pony Sub, NM UBHO Sub, Gap Sub, NMDC, NM Flex, 30 Joints Push Pipe, 40 Joints HWDP, ,							
Second Directional :	Jason Deshazo			Signature: _____										
MWD Operator1	Joe Smith/Dirk Lockoad													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost	\$16,970.00									
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$22,370.00					

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/09/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-May-14	00:00	20:00	20.00	0	0	Standby	Tool & Personell on Location
9-May-14	20:00	21:30	1.50	3051	3051	Change BHA	Pick up Curve Assembly for BHA #1
9-May-14	21:30	22:00	0.50	3051	3051	MWDRun	Pick MWD & EM Tool
9-May-14	22:00	22:30	0.50	3051	3051	TIH	Install Rotating Head
9-May-14	22:30	22:45	0.25	3051	3051	Circulating	Surface Test MWD @ 59 strokes holding 370psi
9-May-14	22:45	24:00	1.25	3051	3051	TIH	Trip into the hole w/ Curve Assembly BHA#1



JOB NO.:	OK-141380	Report Time:	2400	1 of 3
Company:	McElevain	API JOB #	15-195-22941-01-00	
LOCATION:	Ellis Kansas	WORK ORDER#		
RIG NAME:	Super Single	FIELD:	Pawnee	
STATE:	Kansas	Township:		
COUNTY:	Trego	SECTRANGE:		
WELL NAME:	Kraemer 11-4H			

From Thursday, May 08, 2014 at 0000 to Thursday, May 08, 2014 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	0	Slack Off	0	SPM				
End Depth	0.00	Circulating Hours	0.00	RAB	0	SPP	0	FlowRate	0-0		0			
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data										
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type		PV	0	SOLID			0			
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°			0	
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°			0	
Below Rotary Hrs.	18.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %			0	
PERSONNEL				CASING				BHA						
Lead Directional :	Cam Carter			Size	Lb/ft	Set Depth	N/A							
Second Directional :	Jason Deshazo			Signature: 										
MWD Operator1	Joe Smith/Dirk Lockoad													
MWD Operator2	Chad Hawkins													
Directional Company:	Crescent													
Geologist:														
Company Man:	Cliff/Mark			Daily Cost					\$5,400.00					
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$5,400.00					

GENERAL COMMENT

Crescent Personnel had no EHS incidents on 5/08/14

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-May-14	06:00	24:00	18.00	0	0	Other	Tools & Personell on Location

Well Information

BHA # 1



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Cam Carter
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	2.67	Start Depth	3051.00	RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only	26.92 / 2.17	End Depth	3451.00	Range	
09-May-14 @ 21:30	12-May-14 @ 06:20	Slide Hours	22.08	Percent Rotary:	9.50	0 -20	0 -675
		Below Rotary Hrs.	56.83	Percent Slide:	90.50		
Total Drilled:		400.00	Avg. Total ROP:	16.16	Incl.	Azimuth	
Total Rotary Drilled:		38.00	Avg. Rotary ROP:	14.25	IN	OUT	IN OUT
Total Drilled Sliding:		362.00	Avg. Slide ROP:	16.39	.0	.0	.00 .00
SPP	0 -1880	Weights	SO 0-132	PU 0-140	RAB 0-136	Reason POOH	HP

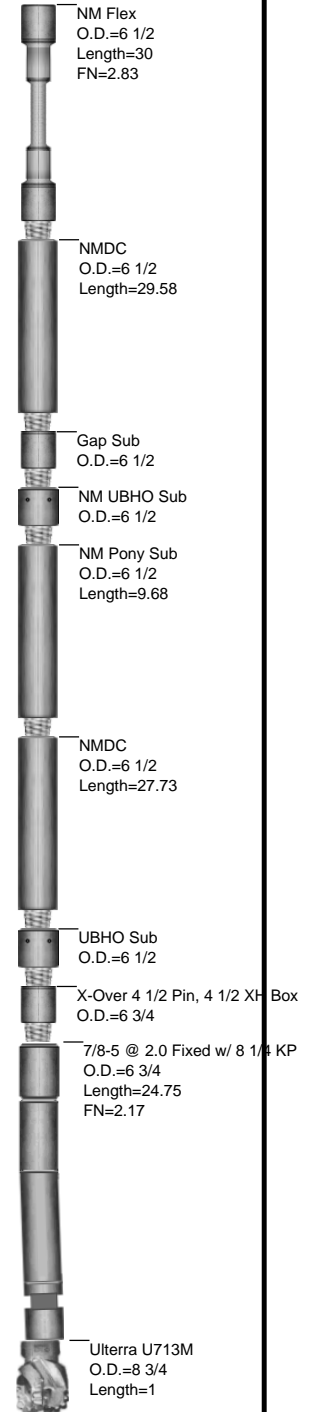
Bit Data				MOTOR DATA				Mud Data			
Ulterra		Ulterra U713M		7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, .288 RPG				Type		Water Base	
Type Bit		PDC		Model: 7/8-5		Pad OD		WT 0 GAS 0 Solids 0			
TFA		1.739		MFG. Crescent		7.0		Vis 0 SAND 0 T ° 0			
JETS		18	18	18	18	Bend ° 2 Stator/Rotor 7/8		PV 0 PH 0 Chlor 0			
		18	18	0	0	Bit to Bend 4.46 Motor Diff		YP 0 WL 0 Oil % 0			
Bit Coding		IADC#		Rev/GAL 0.288				BHT° 0			
IR	OR	DL	Loc	BS	G	ODL	NB Stab	PUMPS		PUMP1	
1	1	NO	N		8.75	NO	0	NAME		PUMP1	
Bit Drop:		0 PSI @ 675 GPM		Sensor Offsets				Model			
Comments		Sensor	0	Sonic	0			Type			
		Gamma	0	DNDC	3050			Liner		.00 .00	
		Restiv	0	GYRO	0			Stroke		.00 .00	
								Efficiency		.00 .00	

7/8-5 @ 2.0 Fixed w/ 8 1/4 KP
 0.288 RPG
 300-600 GPM

Survey-58
 Gamma-42

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Ulterra U713M	19390		8 3/4	1.00	1.00	4 1/2 REGP
2	7/8-5 @ 2.0 Fixed w/ 8 1/4 KP	CD675097		6 3/4	24.75	25.75	4 1/2 IFB
3	X-Over 4 1/2 Pin, 4 1/2 XH Box	SD104522	2 13/16	6 3/4	2.78	28.53	4 1/2 XHB
4	UBHO Sub	CD650541	2 13/16	6 1/2	2.64	31.17	4 1/2 XHB
5	NMDC	SD46238	2 13/16	6 1/2	27.73	58.90	4 1/2 XHB
6	NM Pony Sub	SD39686	2 13/16	6 1/2	9.68	68.58	4 1/2 XHB
7	NM UBHO Sub	CDNM650127	2 13/16	6 1/2	3.05	71.63	4 1/2 XHB
8	Gap Sub	CGS650605	2 13/16	6 1/2	3.24	74.87	4 1/2 XHB
9	NMDC	SD49015	2 13/16	6 1/2	29.58	104.45	4 1/2 XHB
10	NM Flex	SD41557	2 13/16	6 1/2	30.00	134.45	4 1/2 XHB
11	30 Joints Push Pipe	Rig	3.826	4.5	1,347.18	1481.63	4 1/2 XH
12	40 Joints HWDP	Rig	2.563	5	1,222.60	2704.23	4 1/2 XH
13					0.00	2704.23	



Well Information

BHA # 2



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Cam Carter
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	5.17	Start Depth	2900.00	RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only	6.33 / 1.17	End Depth	3451.00	Range	
12-May-14 @ 06:20	13-May-14 @ 23:45	Slide Hours	.00	Percent Rotary:	100.00	15 -20	230 -675
		Below Rotary Hrs.	41.42	Percent Slide:	.00		
Total Drilled:		100.00	Avg. Total ROP:	19.35	Incl.	Azimuth	
Total Rotary Drilled:		100.00	Avg. Rotary ROP:	19.35	IN	OUT	IN OUT
Total Drilled Sliding:		.00	Avg. Slide ROP:	NA	.0	.0	.00 .00
SPP	1880 -1880	Weights	SO	132 -132	PU	140 -140	RAB 136 -136 Reason POOH DTF

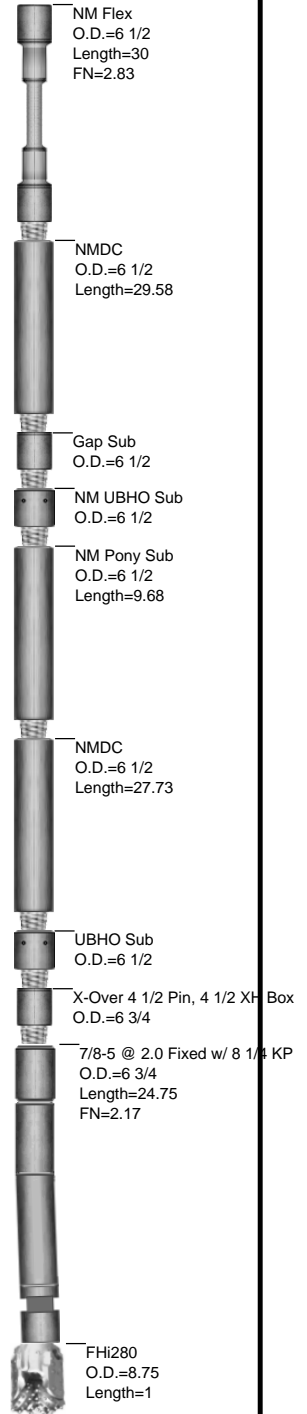
Bit Data				MOTOR DATA				Mud Data							
SMITH	FHI280			7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, .288 RPG				Type	Water Base						
Type Bit		ROCK		Model: 78:5		Pad OD		WT	GAS	Solids	0				
TFA	0.92		MFG. Crescent		8.25		Vis	SAND	T °	0					
JETS		20	20	20	0	0	Bend °	2	Stator/Rotor	7/8	PV	PH	Chlor	0	
		0	0	0	0	0	Bit to Bend	4.46	Motor Diff		YP	WL	Oil %	0	
Bit Coding		IADC#		Rev/GAL	0.288		BHT°		0						
IR	OR	DL	Loc	BS	G	ODL	NB Stab	0	PUMPS		PUMP1		PUMP1		
0	0	NO	N		8.75	NO	Rotor Jet	0	NAME						
Bit Drop:		0 PSI @ 675 GPM		Sensor Offsets				Model							
Comments		Sensor	55	Sonic	0		Type								
		Gamma	42	DNDC	2900		Liner								
		Restiv	0	GYRO	0		Stroke								
				Efficency											

7/8-5 @ 2.0 Fixed w/ 8 1/4 KP
 0.288 RPG
 300-600 GPM

Survey-55
 Gamma-42

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	FHI280	RA8966		8.75	1.00	1.00	4 1/2 REGP
2	7/8-5 @ 2.0 Fixed w/ 8 1/4 KP	CD675097		6 3/4	24.75	25.75	4 1/2 IFB
3	X-Over 4 1/2 Pin, 4 1/2 XH Box	SD104522	2 13/16	6 3/4	2.78	28.53	4 1/2 XHB
4	UBHO Sub	CD650541	2 13/16	6 1/2	2.64	31.17	4 1/2 XHB
5	NMDC	SD46238	2 13/16	6 1/2	27.73	58.90	4 1/2 XHB
6	NM Pony Sub	SD39686	2 13/16	6 1/2	9.68	68.58	4 1/2 XHB
7	NM UBHO Sub	CDNM650127	2 13/16	6 1/2	3.05	71.63	4 1/2 XHB
8	Gap Sub	CGS650605	2 13/16	6 1/2	3.24	74.87	4 1/2 XHB
9	NMDC	SD49015	2 13/16	6 1/2	29.58	104.45	4 1/2 XHB
10	NM Flex	SD41557	2 13/16	6 1/2	30.00	134.45	4 1/2 XHB
11	30 Joints Push Pipe	Rig	3.826	4.5	1,347.18	1481.63	4 1/2 XH
12	40 Joints HWDP	Rig	2.563	5	1,222.60	2704.23	4 1/2 XH
13					0.00	2704.23	



Well Information

BHA # 3



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Cam Carter
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	5.83	Start Depth	3008.00	RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only	98.33 / 1.83	End Depth	3558.00	Range	
13-May-14 @ 23:45	18-May-14 @ 15:15	Slide Hours	90.67	Percent Rotary:	9.64	0 -20	230 -675
		Below Rotary Hrs.	111.50	Percent Slide:	90.36		
Total Drilled:		550.00	Avg. Total ROP:	5.70	Incl.	Azimuth	
Total Rotary Drilled:		53.00	Avg. Rotary ROP:	9.09	IN	OUT	IN OUT
Total Drilled Sliding:		497.00	Avg. Slide ROP:	5.48	.0	35.0	.00 92.60
SPP	1300 -1880	Weights	SO 132 -132	PU 140 -140	RAB 136 -136	Reason POOH	BHA

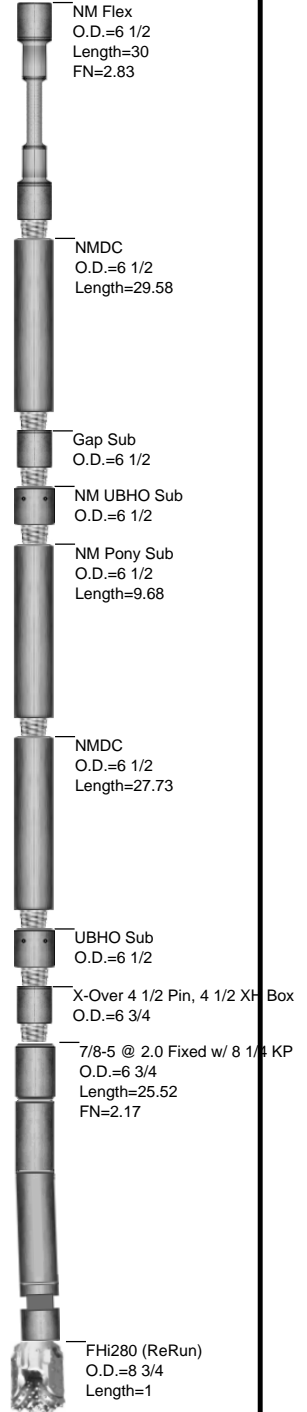
Bit Data				MOTOR DATA				Mud Data								
SMITH	FHi280 (ReRun)			7/8-5 @ 2.0 Fixed w/ 8 1/4 KP, .288 RPG				Type	Water Base							
Type Bit		ROCK		Model: 7/8: 5		Pad OD		WT	9	GAS	0	Solids	5.5			
TFA	0.92				MFG.	Crescent	8.25	Vis	45	SAND	0	T °	90			
JETS		20	20	20	0	0	Bend °	2	Stator/Rotor	7/8	PV	16	PH	2.2	Chlor	6000
		0	0	0	0	0	Bit to Bend	4.5	Motor Diff		YP	12	WL	0	Oil %	0
Bit Coding		IADC#		Rev/GAL		0.288		BHT°		120						
IR	OR	DL	Loc	BS	G	ODL	NB Stab	0	PUMPS		PUMP1		PUMP1			
1	1	NO			8.75	NO	Rotor Jet	0	NAME							
Bit Drop:		446 PSI @ 675 GPM		Sensor Offsets				Model								
Comments		Sensor	0	Sonic	0	Type		Liner		.00		.00				
		Gamma	0	DNsc	3008	Stroke		Stroke		.00		.00				
		Restiv	0	GYRO	0	Efficency		Efficency		.00		.00				

7/8-5 @ 2.0 Fixed w/ 8 1/4 KP
 0.288 RPG
 300-600 GPM

Survey-57
 Gamma-41

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	FHi280 (ReRun)	RA8966		8 3/4	1.00	1.00	4 1/2 REGP
2	7/8-5 @ 2.0 Fixed w/ 8 1/4 KP	CD65090		6 3/4	25.52	26.52	4 1/2 IFB
3	X-Over 4 1/2 Pin, 4 1/2 XH Box	SD104522	2 13/16	6 3/4	2.78	29.30	4 1/2 XHB
4	UBHO Sub	CD650541	2 13/16	6 1/2	2.64	31.94	4 1/2 XHB
5	NMDC	SD46238	2 13/16	6 1/2	27.73	59.67	4 1/2 XHB
6	NM Pony Sub	SD39686	2 13/16	6 1/2	9.68	69.35	4 1/2 XHB
7	NM UBHO Sub	CDNM650127	2 13/16	6 1/2	3.05	72.40	4 1/2 XHB
8	Gap Sub	CGS650605	2 13/16	6 1/2	3.24	75.64	4 1/2 XHB
9	NMDC	SD49015	2 13/16	6 1/2	29.58	105.22	4 1/2 XHB
10	NM Flex	SD41557	2 13/16	6 1/2	30.00	135.22	4 1/2 XHB
11	30 Joints Push Pipe	Rig	3.826	4.5	1,347.18	1482.40	4 1/2 XH
12	40 Joints HWDP	Rig	2.563	5	1,222.60	2705.00	4 1/2 XH
13					0.00	2705.00	



Well Information

BHA # 4



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Cam Carter
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	1.83	Start Depth	3558.00	RPM		Flow Rate	
Start Time	End Time	Circ Hrs Tot/Only	35.177 10.00	End Depth	3751.00	Range			
18-May-14 @ 15:15	20-May-14 @ 10:30	Slide Hours	23.33	Percent Rotary:	7.77	0 -15	425	-675	
		Below Rotary Hrs.	43.25	Percent Slide:	92.23				
Total Drilled:		193.00	Avg. Total ROP:	7.67	Incl.	Azimuth			
Total Rotary Drilled:		15.00	Avg. Rotary ROP:	8.18	IN	OUT	IN	OUT	
Total Drilled Sliding:		178.00	Avg. Slide ROP:	7.63	35.0	60.4	92.60	114.70	
SPP	1300 -1300	Weights	SO 132 -132	PU 140 -140	RAB 136 -136	Reason POOH		PR	

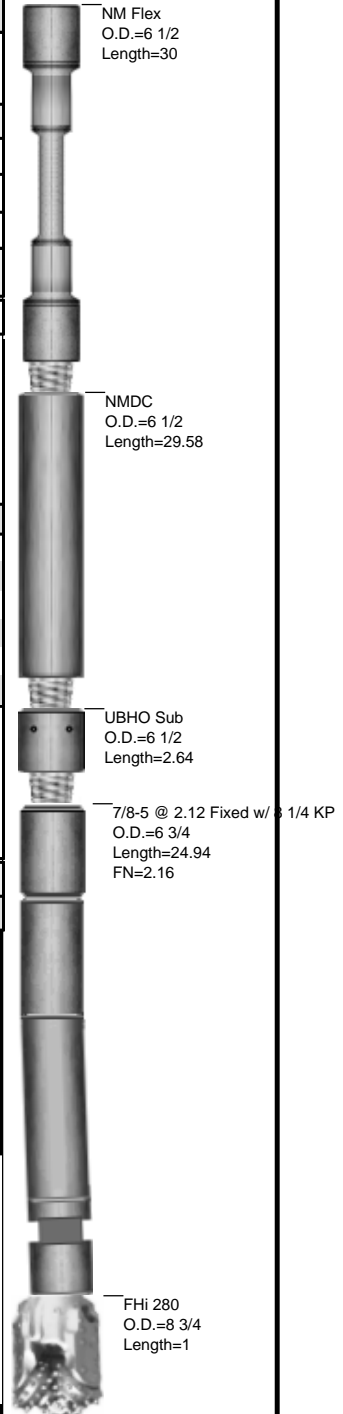
Bit Data				MOTOR DATA				Mud Data			
SMITH		FHi 280		7/8-5 @ 2.12 Fixed w/ 8 1/4 KP				Type		Water Base	
Type Bit		ROCK		Model: 7/8-5		Pad OD		WT 9 GAS 0 Solids 5.5			
TFA		0.92		MFG. Crescent		7.0		Vis 45 SAND 0 T° 90			
JETS		20	20	20	0	0	Bend ° 2.12 Stator/Rotor 7/8		PV 16 PH 2.2 Chlor 6000		
		0	0	0	0	0	Bit to Bend 4.51 Motor Diff		YP 12 WL 0 Oil % 0		
Bit Coding		IADC#		Rev/GAL 0.288				BHT° 120			
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0		PUMPS		PUMP1
1	1	NO	N		8.75	NO	Rotor Jet 0		NAME		PUMP1
Bit Drop:		446 PSI @ 675 GPM		Sensor Offsets				Type			
Comments		Sensor	51	Sonic	0			Liner		.00 .00	
		Gamma	38	DNCS	3558			Stroke		.00 .00	
		Restiv	0	GYRO	0			Efficiency		.00 .00	

7/8-5 @ 2.12 Fixed w/ 8 1/4 KP.
 RPG-0.288
 300-600 GPM

Survey-51
 Gamma-38

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	FHi 280	RA5636		8 3/4	1.00	1.00	4 1/2 REGP
2	7/8-5 @ 2.12 Fixed w/ 8 1/4 KP	CD65074		6 3/4	24.94	25.94	4 1/2 XHB
3	UBHO Sub	CD650541	2 13/16	6 1/2	2.64	28.58	4 1/2 XHB
4	NMDC	SD49015	2 13/16	6 1/2	29.58	58.16	4 1/2 XHB
5	NM Flex	SD41557	2 13/16	6 1/2	30.00	88.16	4 1/2 XHB
6	30 Joints Push Pipe	Rig	3.826	4.5	1,347.18	1435.34	4 1/2 XH
7	40 Joints HWDP	Rig	2.563	5	1,222.60	2657.94	4 1/2 XH
8					0.00	2657.94	



Well Information

BHA # 5



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Cam Carter / Daniel Jones
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	4.42	Start Depth	3751.00	RPM	Flow
Start Time	End Time	Circ Hrs Tot/Only	41.33 / 1.42	End Depth	4017.00	Range	Rate
20-May-14 @ 10:30	22-May-14 @ 17:55	Slide Hours	35.50	Percent Rotary:	18.42	0 -15	425 -675
		Below Rotary Hrs.	55.42	Percent Slide:	81.58		
Total Drilled:		266.00	Avg. Total ROP:	6.66	Incl.	Azimuth	
Total Rotary Drilled:		49.00	Avg. Rotary ROP:	11.09	IN	OUT	IN
Total Drilled Sliding:		217.00	Avg. Slide ROP:	6.11	60.4	67.9	114.70
SPP	1300 -1960	Weights	SO 132 -132	PU 140 -160	RAB 136 -138	Reason POOH	PR

Bit Data				MOTOR DATA				Mud Data			
Ulterra		U713M		7/8-5 @ 2.12 Fixed w/ 8 1/4 KP.				Type		Water Base	
Type Bit		PDC		Model: 7/8-5		Pad OD		WT 9 GAS 0 Solids 5.5			
TFA		1.739		MFG. Crescent		7.0		Vis 45 SAND 0 T° 90			
JETS		18	18	18	18	Bend ° 2.12 Stator/Rotor 7/8		PV 16 PH 2.2 Chlor 6000			
		18	18	0	0	Bit to Bend 4.51 Motor Diff		YP 12 WL 0 Oil % 0			
Bit Coding		IADC#		Rev/GAL 0.288				BHT° 120			
IR	OR	DL	Loc	BS	G	ODL	NB Stab	PUMPS		PUMP1	
2	2	CT	N		8.75	CT	0	NAME		PUMP1	
Bit Drop:		125 PSI @ 675 GPM		Sensor Offsets				Model			
Comments		Sensor	0	Sonic	0			Type			
		Gamma	0	DNCS	3751			Liner		.00 .00	
		Restiv	0	GYRO	0			Stroke		.00 .00	
								Efficency		.00 .00	

7/8-5 @ 2.12 Fixed w/ 8 1/4 KP.
 RPG-0.288
 300-600 GPM

Survey-51
 Gamma-38

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	U713M	20876		8 3/4	1.00	1.00	4 1/2 REGP
2	7/8-5 @ 2.12 Fixed w/ 8 1/4 KP	CD65074		6 3/4	24.94	25.94	4 1/2 XHB
3	UBHO Sub	CD650541	2 13/16	6 1/2	2.64	28.58	4 1/2 XHB
4	NMDC	SD49015	2 13/16	6 1/2	29.58	58.16	4 1/2 XHB
5	NM Flex	SD41557	2 13/16	6 1/2	30.00	88.16	4 1/2 XHB
6	30 Joints Push Pipe	Rig	3.826	4.5	1,347.18	1435.34	4 1/2 XH
7	40 Joints HWDP	Rig	2.563	5	1,222.60	2657.94	4 1/2 XH
8					0.00	2657.94	

NM Flex
 O.D.=6 1/2
 Length=30

NMDC
 O.D.=6 1/2
 Length=29.58

UBHO Sub
 O.D.=6 1/2
 Length=2.64

7/8-5 @ 2.12 Fixed w/ 8 1/4 KP
 O.D.=6 3/4
 Length=24.94
 FN=2.16

U713M
 O.D.=8 3/4
 Length=1

Well Information

BHA # 6



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Cam Carter / Daniel Jones
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	7.25	Start Depth	4017.00	RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only	30.67 / 1.08	End Depth	4468.00	Range	
22-May-14 @ 17:55	24-May-14 @ 19:15	Slide Hours	22.33	Percent Rotary:	44.57	15 -15	425 -509
		Below Rotary Hrs.	49.33	Percent Slide:	55.43		
Total Drilled:		451.00	Avg. Total ROP:	15.25	Incl.	Azimuth	
Total Rotary Drilled:		201.00	Avg. Rotary ROP:	27.72	IN	OUT	IN OUT
Total Drilled Sliding:		250.00	Avg. Slide ROP:	11.19	67.9	92.7	152.50 182.90
SPP	1960 -1960	Weights	SO 132 -132	PU 160 -160	RAB 138 -138	Reason POOH	

Bit Data				MOTOR DATA				Mud Data			
Ulterra		U713M		7/8-5 @ 2.12 Fixed w/ 8 1/4 KP.				Type		Water Base	
Type Bit		PDC		Model: 7/8:5		Pad OD		WT 9 GAS 0 Solids 5.5			
TFA		1.739		MFG. Crescent		7.0		Vis 45 SAND 0 T° 90			
JETS		18	18	18	18	Bend ° 2.12 Stator/Rotor 7/8		PV 16 PH 2.2 Chlor 6000			
		18	18	0	0	Bit to Bend 4.47 Motor Diff		YP 12 WL 0 Oil % 0			
Bit Coding		IADC#		Rev/GAL 0.288				BHT° 120			
IR	OR	DL	Loc	BS	G	ODL	NB Stab	PUMPS	PUMP1	PUMP1	
0	0						0	NAME			
Bit Drop:		71 PSI @ 509 GPM		Sensor Offsets				Model			
Comments		Sensor	51	Sonic	0			Type			
		Gamma	38	DNCS	4017			Liner	.00		.00
		Restiv	0	GYRO	0			Stroke	.00		.00
								Efficency	.00		.00

7/8-5 @ 2.12 Fixed w/ 8 1/4 KP.
 RPG-0.288
 300-600 GPM
 Max Rotary Torque 10,400ft/lb
 Max Diff. 1130psi
 Survey-51
 Gamma-38

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	U713M	24358			1.00	1.00	4 1/2 REGP
2	7/8-5 @ 2.12 Fixed w/ 8 1/4 KP	CD675106		6 3/4	25.35	26.35	4 1/2 XHB
3	UBHO Sub	CD650154	2 13/16	6 1/2	2.53	28.88	4 1/2 XHB
4	NMDC	SD49015	2 13/16	6 1/2	29.58	58.46	4 1/2 XHB
5	NM Flex	SD41557	2 13/16	6 1/2	30.00	88.46	4 1/2 XHB
6	30 Joints Push Pipe	Rig	3.826	4.5	1,347.18	1435.64	4 1/2 XH
7	40 Joints HWDP	Rig	2.563	5	1,222.60	2658.24	4 1/2 XH
8					0.00	2658.24	

NM Flex
 O.D.=6 1/2
 Length=30

NMDC
 O.D.=6 1/2
 Length=29.58

UBHO Sub
 O.D.=6 1/2
 Length=2.53

7/8-5 @ 2.12 Fixed w/ 8 1/4 KP
 O.D.=6 3/4
 Length=25.35
 FN=2.16

U713M
 O.D.=
 Length=1



Well Information

BHA # 7



JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Trego
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
SECT. RANGE: 11-T11S-R22W
Lead DD: Daniel Jones
Co. Man: Cliff/Mark
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT		Rotary Hours	57.25	Start Depth	4468.00	RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only	79.257 10.83	End Depth	6704.00	Range	
24-May-14 @ 19:15	30-May-14 @ 24:00	Slide Hours	11.17	Percent Rotary:	95.26	15 -40	425
		Below Rotary Hrs.	148.75	Percent Slide:	4.74		-509
Total Drilled:		2236.00	Avg. Total ROP:	32.68	Incl.	Azimuth	
Total Rotary Drilled:		2130.00	Avg. Rotary ROP:	37.21	IN	OUT	IN OUT
Total Drilled Sliding:		106.00	Avg. Slide ROP:	9.49	92.7	.0	182.90 .00
SPP	1960 -2100	Weights	SO 95 -132	PU 160 -170	RAB 128 -138	Reason POOH	

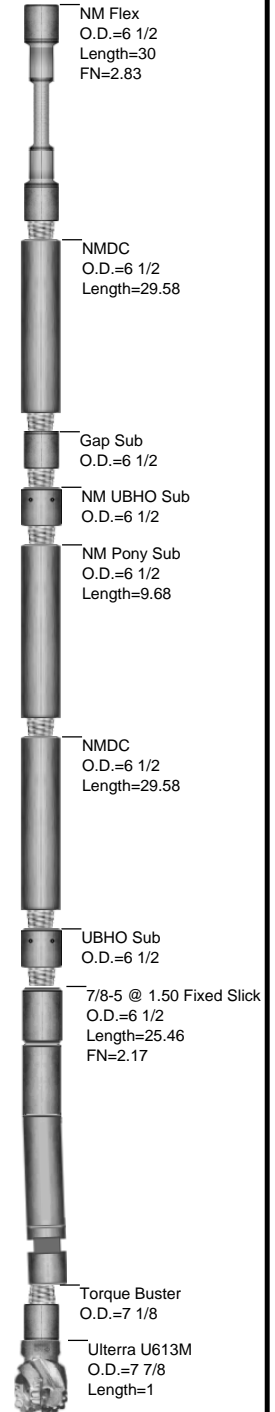
Bit Data				MOTOR DATA				Mud Data			
Ulterra		Ulterra U613M		7/8-5 @ 1.5° Fixed				Type		Water Base	
Type Bit		PDC		Model: 7/8:5		Pad OD		WT 9 GAS 0 Solids 5.5			
TFA		1.84		MFG. Crescent				Vis 45 SAND 0 T° 90			
JETS		20	20	20	20	Bend ° 1.5 Stator/Rotor 7/8		PV 16 PH 2.2 Chlor 6000			
		20	0	0	0	Bit to Bend 4.45 Motor Diff		YP 12 WL 0 Oil % 0			
Bit Coding		IADC#		Rev/GAL 0.288				BHT° 120			
IR	OR	DL	Loc	BS	G	ODL	NB Stab	PUMPS	PUMP1	PUMP1	
0	0						0	NAME			
Bit Drop:		63 PSI @ 509 GPM		Sensor Offsets				Model			
Comments		Sensor	53	Sonic	0			Type			
		Gamma	40	DNCS	4468			Liner	.00		.00
		Restiv	0	GYRO	0			Stroke	.00		.00
								Efficency	.00		.00

7/8-5 @ 1.50° Fixed Slick.
 RPG-0.288
 300-600 GPM
 Max Rotary Torque 10,460ft/lb
 Max Diff. 1130psi

 Survey-53
 Gamma-40

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Ulterra U613M	25188		7 7/8	1.00	1.00	4 1/2 REGP
2	Torque Buster	112775		7 1/8	1.81	2.81	4 1/2 REGP
3	7/8-5 @ 1.50 Fixed Slick	CD6778		6 1/2	25.46	28.27	4 1/2 IFB
4	UBHO Sub	CD650154	2 13/16	6 1/2	2.53	30.80	4 1/2 XHB
5	NMDC	SD46238	2 13/16	6 1/2	29.58	60.38	4 1/2 XHB
6	NM Pony Sub	SD39686	2 13/16	6 1/2	9.68	70.06	4 1/2 XHB
7	NM UBHO Sub	CDNM650127	2 13/16	6 1/2	3.05	73.11	4 1/2 XHB
8	Gap Sub	CGS650605	2 13/16	6 1/2	3.24	76.35	4 1/2 XHB
9	NMDC	SD49015	2 13/16	6 1/2	29.58	105.93	4 1/2 XHB
10	NM Flex	SD41557	2 13/16	6 1/2	30.00	135.93	4 1/2 XHB
11	71 Joints Push Pipe	Rig	3.826	4.5	3,189.44	3325.37	4 1/2 XH
12	40 Joints HWDP	Rig	2.563	5	1,222.60	4547.97	4 1/2 XH
13					0.00	4547.97	





JOB NO.: OK-141380
Company: McElevain
LOCATION: Ellis Kansas
RIG NAME: HWD #7
STATE: Kansas
COUNTY: Country
WELL NAME: Kraemer 11-4H

FIELD: Pawnee
Township:
Range

MOTOR INFORMATION	
Desc: 7/8-5 @ 1.5° Fixed	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 4.45
Pad OD:	NB Stab:

Slide Report for all BHA's in Job: OK-141380

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	10-May	Sliding	03:10	03:45	0.58	3051	3054	3	30	5.1	0	0	675	1880	120M	0.00	0.00	0.00	
1	10-May	Sliding	04:40	06:00	1.33	3054	3063	9	30	6.8	0	0	675	1880	120M	0.00	0.00	0.00	
1	10-May	Sliding	07:40	11:50	4.17	3063	3098	35	30	8.4	0	0	675	1880	120M	0.00	0.00	0.00	
1	10-May	Drilling	11:50	12:35	0.75	3098	3107	9	18	12.0	20	0	675	1880		0.00	0.00	0.00	
1	10-May	Sliding	12:50	15:00	2.17	3107	3142	35	28	16.2	0	0	675	1880	120M	0.00	0.00	0.00	
1	10-May	Drilling	15:00	15:55	0.92	3142	3153	11	18	12.0	20	0	675	1880		0.00	0.00	0.00	
1	10-May	Sliding	16:30	19:00	2.50	3153	3188	35	28	14.0	20	0	675	1880	110M	3.10	181.50	6.22	
1	10-May	Drilling	19:00	19:20	0.33	3188	3198	10	18	30.0	20	0	675	1880		3.10	181.50	6.22	
1	10-May	Sliding	19:35	21:35	2.00	3198	3240	42	28	21.0	20	0	675	1880	120M	5.10	206.30	5.84	
1	10-May	Drilling	21:35	21:45	0.17	3240	3243	3	18	18.0	20	0	675	1880		5.10	206.30	5.84	
1	10-May	Sliding	22:00	24:00	2.00	3243	3275	32	28	16.0	20	0	675	1880	60L	0.00	0.00	0.00	
1	11-May	Sliding	00:00	00:35	0.58	3275	3285	10	28	17.1	20	0	675	1880	60L	7.60	211.50	5.70	
1	11-May	Drilling	00:35	00:50	0.25	3285	3288	3	18	12.0	20	0	675	1880		7.60	211.50	5.70	
1	11-May	Sliding	01:05	02:40	1.58	3288	3330	42	28	26.5	20	0	675	1880	60L	8.30	229.90	5.84	
1	11-May	Drilling	02:40	02:55	0.25	3330	3332	2	18	8.0	20	0	675	1880		8.30	229.90	5.84	
1	11-May	Sliding	03:25	05:00	1.58	3332	3377	45	18	28.4	0	0	675	1880	90L	11.30	243.90	8.66	
1	11-May	Sliding	05:15	06:50	1.58	3377	3422	45	18	28.4	0	0	675	1880	90L	15.40	248.40	9.39	
1	11-May	Sliding	07:05	09:05	2.00	3422	3451	29	18	14.5	0	0	675	1880	90L	20.40	249.50	11.10	
3	14-May	Sliding	03:30	11:35	8.08	3008	3019	11	2	1.4	0	0	675	1880	90M	0.00	0.00	0.00	
3	14-May	Sliding	11:50	17:00	5.17	3019	3028	9	2	1.7	0	0	675	1880	90M	0.00	0.00	0.00	
3	14-May	Sliding	17:00	19:45	2.75	3028	3036	8	2	2.9	0	0	675	1880	90M	0.00	0.00	0.00	
3	14-May	Sliding	19:45	22:10	2.42	3036	3048	12	2	5.0	0	0	675	1880	90M	0.00	0.00	0.00	
3	14-May	Sliding	22:10	24:00	1.83	3048	3053	5	2	2.7	0	0	675	1880	90M	0.00	0.00	0.00	
3	15-May	Sliding	00:00	10:30	10.50	3053	3064	11	5	1.0	0	0	425	1300	90M	0.00	0.00	0.00	
3	15-May	Sliding	10:45	20:55	10.17	3064	3074	10	5	1.0	0	0	425	1300	90M	0.40	79.20	1.09	
3	15-May	Sliding	21:05	24:00	2.92	3074	3077	3	5	1.0	0	0	425	1300	90M	0.40	79.20	1.09	

Slide Report for all BHA's in Job: OK-141380

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	16-May	Sliding	00:00	07:35	7.58	3077	3084	7	5	0.9	0	0	425	1300	90M	0.00	0.00	0.00	
3	16-May	Sliding	07:50	10:00	2.17	3084	3094	10	25	4.6	0	0	425	1300	90M	0.00	0.00	0.00	
3	16-May	Drilling	10:00	11:30	1.50	3094	3109	15	18	10.0	20	0	675	1300		0.00	0.00	0.00	
3	16-May	Sliding	11:45	16:10	4.42	3109	3143	34	25	7.7	0	0	425	1300	110M	1.50	76.50	2.45	
3	16-May	Drilling	16:10	17:15	1.08	3143	3154	11	18	10.2	20	0	675	1300		1.50	76.50	2.45	
3	16-May	Sliding	17:45	20:40	2.92	3154	3188	34	25	11.7	20	0	425	1300	115M	3.20	84.90	3.84	
3	16-May	Drilling	20:40	21:35	0.92	3188	3199	11	18	12.0	20	0	675	1300		3.20	84.90	3.84	
3	16-May	Sliding	21:50	24:00	2.17	3199	3237	38	25	17.5	20	0	425	1300	70	0.00	0.00	0.00	
3	17-May	Sliding	00:00	00:15	0.25	3237	3239	2	25	8.0	20	0	425	1300	70R	5.80	89.20	5.82	
3	17-May	Drilling	00:15	01:00	0.75	3239	3244	5	18	6.7	20	0	675	1300		5.80	89.20	5.82	
3	17-May	Sliding	01:20	03:50	2.50	3244	3284	40	25	16.0	20	0	425	1300	70R	8.60	87.80	6.23	
3	17-May	Drilling	03:50	04:30	0.67	3284	3289	5	18	7.5	20	0	675	1300		8.60	87.80	6.23	
3	17-May	Sliding	05:20	08:30	3.17	3289	3331	42	25	13.3	0	0	425	1300	50R	10.40	69.70	7.70	
3	17-May	Drilling	08:30	09:00	0.50	3331	3334	3	18	6.0	20	0	675	1300		10.40	69.70	7.70	
3	17-May	Sliding	09:15	15:15	6.00	3334	3376	42	25	7.0	20	0	425	1300	40R	13.00	58.20	7.73	
3	17-May	Drilling	15:15	15:40	0.42	3376	3379	3	18	7.2	20	0	675	1300		13.00	58.20	7.73	
3	17-May	Sliding	16:15	21:05	4.83	3379	3424	45	25	9.3	20	0	425	1300	40R	16.20	69.00	9.31	
3	17-May	Sliding	21:55	24:00	2.08	3424	3444	20	25	9.6	20	0	425	1300	40R	20.20	75.60	10.00	
3	18-May	Sliding	00:00	01:40	1.67	3444	3469	25	25	15.0	20	0	425	1300	40R	20.20	75.60	10.00	
3	18-May	Sliding	02:20	05:25	3.08	3469	3514	45	25	14.6	20	0	425	1300	40R	24.40	82.00	10.77	
3	18-May	Sliding	05:45	09:45	4.00	3514	3558	44	31	11.0	0	0	425	1300	40R	29.80	87.50	13.22	
4	19-May	Sliding	00:50	04:45	3.92	3558	3601	43	40	11.0	0	0	425	1300	40R	35.00	92.60	13.34	
4	19-May	Sliding	05:30	08:45	3.25	3601	3646	45	34	13.8	0	0	425	1300	40R	40.40	97.10	13.17	
4	19-May	Sliding	09:00	13:45	4.75	3646	3686	40	40	8.4	0	0	425	1300	40R	46.80	102.80	16.68	
4	19-May	Drilling	13:45	14:20	0.58	3686	3691	5	18	8.6	15	1700	675	1300		46.80	102.80	16.68	
4	19-May	Sliding	15:00	22:15	7.25	3691	3722	31	40	4.3	15	1700	425	1300	70R	0.00	0.00	0.00	
4	20-May	Sliding	00:00	00:45	0.75	3722	3726	4	40	5.3	15	1700	425	1300	70R	54.20	109.10	19.66	
4	20-May	Drilling	00:45	02:00	1.25	3726	3736	10	18	8.0	15	2000	675	1300		54.20	109.10	19.66	
4	20-May	Sliding	02:20	05:45	3.42	3736	3751	15	40	4.4	15	2000	425	1300	70R	60.40	114.70	18.40	
5	20-May	Sliding	15:40	17:15	1.58	3751	3768	17	40	10.7	15	2000	425	1300	80R	60.40	114.70	18.40	
5	20-May	Drilling	17:15	18:30	1.25	3768	3781	13	18	10.4	15	2000	675	1300		60.40	114.70	18.40	
5	20-May	Sliding	20:25	23:25	3.00	3781	3801	20	40	6.7	15	2000	425	1300	80R	0.00	0.00	0.00	
5	20-May	Sliding	23:35	24:00	0.42	3801	3817	16	40	38.4	15	2000	425	1300	80R	0.00	0.00	0.00	
5	21-May	Sliding	00:00	00:10	0.17	3817	3821	4	40	24.0	15	2000	425	1300	80R	62.70	120.50	12.43	
5	21-May	Drilling	00:10	00:35	0.42	3821	3826	5	18	12.0	15	2000	675	1300		62.70	120.50	12.43	

Slide Report for all BHA's in Job: OK-141380

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
5	21-May	Sliding	00:50	02:30	1.67	3826	3846	20	40	12.0	15	2000	425	1300	80R	63.00	126.40	11.68	
5	21-May	Sliding	02:40	05:00	2.33	3846	3864	18	40	7.7	15	2000	425	1300	70R	63.00	126.40	11.68	
5	21-May	Drilling	05:00	05:45	0.75	3864	3870	6	40	8.0	15	2000	425	1300	70R	63.00	126.40	11.68	
5	21-May	Sliding	06:05	10:05	4.00	3870	3905	35	40	8.8	0	2000	425	1300	70R	0.00	0.00	0.00	
5	21-May	Drilling	10:10	10:45	0.58	3905	3915	10	22	17.1	15	2000	425	1300		0.00	0.00	0.00	
5	21-May	Sliding	11:15	14:35	3.33	3915	3954	39	32	11.7	0	2000	425	1300	70R	0.00	0.00	0.00	
5	21-May	Drilling	14:40	15:05	0.42	3954	3960	6	22	14.4	15	2000	425	1300		0.00	0.00	0.00	
5	21-May	Sliding	15:20	19:15	3.92	3960	3965	5	32	1.3	15	2000	425	1300	70R	0.00	0.00	0.00	
5	21-May	Drilling	19:15	19:40	0.42	3965	3967	2	22	4.8	15	2000	425	1300		0.00	0.00	0.00	
5	21-May	Sliding	19:40	24:00	4.33	3967	3985	18	32	4.2	15	2000	425	1300	70R	0.00	0.00	0.00	
5	22-May	Sliding	00:00	01:20	1.33	3985	3989	4	32	3.0	15	2700	509	1960	70R	66.90	146.60	14.08	
5	22-May	Sliding	01:45	03:45	2.00	3989	3998	9	32	4.5	15	2700	509	1960	70R	66.90	146.60	14.08	
5	22-May	Drilling	03:45	04:20	0.58	3998	4005	7	22	12.0	15	2700	425	1960		66.90	146.60	14.08	
5	22-May	Sliding	05:10	12:35	7.42	4005	4017	12	32	1.6	15	2700	509	1960	60R	67.90	152.50	12.30	
6	23-May	Sliding	03:05	05:30	2.42	4017	4021	4	32	1.7	15	2700	509	1960	40R	67.90	152.50	12.31	
6	23-May	Drilling	05:30	06:00	0.50	4021	4023	2	22	4.0	15	2700	425	1960		67.90	152.50	12.31	
6	23-May	Sliding	06:00	08:40	2.67	4023	4046	23	32	8.6	15	2700	509	1960	45R	67.90	152.50	12.31	
6	23-May	Drilling	08:50	09:05	0.25	4046	4050	4	22	16.0	15	2700	425	1960		67.90	152.50	12.31	
6	23-May	Sliding	09:20	11:25	2.08	4050	4095	45	32	21.6	15	2700	509	1960	60R	68.90	155.40	6.39	
6	23-May	Sliding	11:40	13:00	1.33	4095	4133	38	32	28.5	15	2700	509	1960	40R	70.90	160.30	11.15	
6	23-May	Drilling	13:00	13:15	0.25	4133	4140	7	22	28.0	15	2700	425	1960		70.90	160.30	11.15	
6	23-May	Sliding	13:55	19:30	5.58	4140	4181	41	32	7.3	15	2700	509	1960	40R	73.60	166.90	15.20	
6	23-May	Drilling	19:30	19:55	0.42	4181	4185	4	22	9.6	15	2700	425	1960		73.60	166.90	15.20	
6	23-May	Sliding	20:10	23:00	2.83	4185	4230	45	32	15.9	15	2700	509	1960	40R	77.50	77.50	9.18	
6	23-May	Sliding	23:20	24:00	0.67	4230	4240	10	32	15.0	15	2700	509	1960	20R	82.30	175.90	25.12	
6	24-May	Sliding	00:00	00:55	0.92	4240	4250	10	32	10.9	15	2700	509	1960	20R	82.30	175.90	25.12	
6	24-May	Drilling	00:55	01:55	1.00	4250	4275	25	22	25.0	15	2700	425	1960		82.30	175.90	25.12	
6	24-May	Sliding	02:45	03:40	0.92	4275	4285	10	32	10.9	15	2700	509	1960	80R	87.80	180.20	15.49	
6	24-May	Drilling	03:40	04:55	1.25	4285	4320	35	22	28.0	15	2700	425	1960		87.80	180.20	15.49	
6	24-May	Drilling	05:15	06:10	0.92	4320	4365	45	22	49.1	15	2700	425	1960		90.50	179.10	6.48	
6	24-May	Sliding	06:25	07:30	1.08	4365	4371	6	32	5.5	15	2700	509	1960	180	91.20	187.90	19.62	
6	24-May	Drilling	07:30	08:40	1.17	4371	4410	39	22	33.4	15	2700	425	1960		91.20	187.90	19.62	
6	24-May	Drilling	08:55	09:15	0.33	4410	4425	15	22	45.0	15	2700	425	1960		91.80	183.50	9.86	
6	24-May	Sliding	09:25	11:15	1.83	4425	4443	18	32	9.8	15	2700	509	1960	180	91.80	183.50	9.86	
6	24-May	Drilling	11:15	11:50	0.58	4443	4455	12	22	20.6	15	2700	425	1960		91.80	183.50	9.86	

Slide Report for all BHA's in Job: OK-141380

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#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
6	24-May	Drilling	12:05	12:40	0.58	4455	4468	13	22	22.3	15	2700	425	1960		92.70	182.90	2.40	
7	25-May	Drilling	00:00	01:00	1.00	4468	4486	18	22	18.0	25	3200	482	1975		92.70	182.90	2.40	
7	25-May	Sliding	01:20	02:30	1.17	4486	4492	6	32	5.1	25	3200	509	1975	150R	90.90	182.60	6.29	
7	25-May	Drilling	02:30	02:50	0.33	4492	4497	5	22	15.0	25	3200	482	1975		90.90	182.60	6.29	
7	25-May	Sliding	02:50	03:50	1.00	4497	4506	9	32	9.0	25	3200	509	1975	150R	90.90	182.60	6.29	
7	25-May	Drilling	03:50	04:15	0.42	4506	4517	11	22	26.4	25	3200	482	1975		90.90	182.60	6.29	
7	25-May	Sliding	05:05	05:40	0.58	4517	4524	7	32	12.0	25	3200	509	1975	150R	90.20	183.60	3.94	
7	25-May	Drilling	05:40	06:25	0.75	4524	4547	23	22	30.7	25	3200	482	1975		90.20	183.60	3.94	
7	25-May	Drilling	06:35	07:30	0.92	4547	4593	46	22	50.2	25	3200	482	1975		89.00	184.10	4.33	
7	25-May	Drilling	07:40	08:05	0.42	4593	4618	25	22	60.0	25	3200	482	1975		86.60	184.60	5.33	
7	25-May	Drilling	08:15	08:40	0.42	4618	4638	20	22	48.0	25	3200	482	1975		86.60	184.60	5.33	
7	25-May	Sliding	08:55	10:30	1.58	4638	4654	16	32	10.1	25	3200	509	1975	20L	86.20	184.20	1.26	
7	25-May	Drilling	10:30	11:10	0.67	4654	4683	29	22	43.5	25	3200	482	1975		86.20	184.20	1.26	
7	25-May	Drilling	11:20	12:10	0.83	4683	4728	45	22	54.0	25	3200	482	1975		86.80	185.10	2.40	
7	25-May	Sliding	12:20	14:05	1.75	4728	4744	16	32	9.1	25	3200	509	1975	45L	88.00	184.30	3.20	
7	25-May	Drilling	14:05	14:45	0.67	4744	4772	28	22	42.0	25	3200	482	1975		88.00	184.30	3.20	
7	25-May	Drilling	15:15	16:20	1.08	4772	4817	45	22	41.5	25	3200	482	1975		88.30	183.10	2.81	
7	25-May	Drilling	16:35	17:20	0.75	4817	4862	45	22	60.0	25	3200	482	1975		89.60	181.70	4.25	
7	25-May	Sliding	17:35	18:20	0.75	4862	4872	10	32	13.3	25	3200	509	1975	50L	89.60	182.60	2.00	
7	25-May	Drilling	18:20	19:25	1.08	4872	4907	35	22	32.3	25	3200	482	1975		89.60	182.60	2.00	
7	25-May	Drilling	19:45	20:00	0.25	4907	4917	10	22	40.0	25	3200	482	1975		89.30	181.70	2.11	
7	25-May	Sliding	20:00	20:50	0.83	4917	4927	10	32	12.0	25	3200	509	1975		89.30	181.70	2.11	
7	25-May	Drilling	20:50	21:30	0.67	4927	4952	25	22	37.5	25	3200	482	1975		89.30	181.70	2.11	
7	25-May	Drilling	21:50	22:50	1.00	4952	4997	45	22	45.0	25	3200	482	1975		90.40	181.20	2.69	
7	25-May	Drilling	23:15	24:00	0.75	4997	5036	39	22	52.0	25	3200	482	1975		91.70	180.60	3.18	
7	26-May	Drilling	00:00	00:10	0.17	5036	5042	6	22	36.0	40	7100	482	2100		91.70	180.60	3.18	
7	26-May	Drilling	00:30	01:25	0.92	5042	5087	45	22	49.1	40	7100	482	2100		91.50	180.00	1.40	
7	26-May	Drilling	01:45	02:40	0.92	5087	5132	45	22	49.1	40	7100	482	2100		91.60	182.80	6.22	
7	26-May	Drilling	03:00	03:05	0.08	5132	5142	10	22	120.0	40	7100	482	2100		91.70	180.40	5.34	
7	26-May	Sliding	03:05	03:35	0.50	5142	5148	6	32	12.0	40	7100	509	2100	170R	91.70	180.40	5.34	
7	26-May	Drilling	03:35	04:15	0.67	5148	5177	29	22	43.5	40	7100	482	2100		91.70	180.40	5.34	
7	26-May	Drilling	04:35	05:20	0.75	5177	5222	45	22	60.0	40	7100	482	2100		91.70	178.70	3.78	
7	26-May	Drilling	05:45	06:50	1.08	5222	5267	45	25	41.5	40	7100	482	2100		90.20	179.20	3.51	
7	26-May	Drilling	07:05	07:55	0.83	5267	5312	45	25	54.0	40	8500	482	2100		90.20	179.80	1.33	
7	26-May	Drilling	08:10	09:05	0.92	5312	5357	45	25	49.1	40	8500	482	2100		89.90	180.30	1.30	

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#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
7	26-May	Drilling	09:20	10:10	0.83	5357	5401	44	25	52.8	40	8500	482	2100		89.70	179.10	2.70	
7	26-May	Drilling	10:25	11:20	0.92	5401	5446	45	25	49.1	40	8500	482	2100		90.00	180.20	2.59	
7	26-May	Drilling	12:00	12:55	0.92	5446	5491	45	25	49.1	40	8500	482	2100		90.30	179.30	2.05	
7	26-May	Drilling	13:10	14:05	0.92	5491	5536	45	25	49.1	40	8500	482	2100		90.30	180.10	1.79	
7	26-May	Drilling	14:20	14:30	0.17	5536	5546	10	25	60.0	40	8500	482	2100		90.30	180.40	0.67	
7	26-May	Sliding	14:30	15:20	0.83	5546	5552	6	32	7.2	40	8500	509	2100	100R	90.30	180.40	0.67	
7	26-May	Drilling	15:20	16:00	0.67	5552	5581	29	25	43.5	40	8500	482	2100		90.30	180.40	0.67	
7	26-May	Drilling	16:15	17:05	0.83	5581	5626	45	25	54.0	40	8500	482	2100		90.20	181.00	1.35	
7	26-May	Drilling	17:20	17:40	0.33	5626	5636	10	25	30.0	40	8500	482	2100		90.20	181.00	1.35	
7	26-May	Sliding	17:40	18:20	0.67	5636	5642	6	32	9.0	40	8500	509	2100	145R	90.20	181.00	1.35	
7	26-May	Drilling	18:20	18:55	0.58	5642	5671	29	25	49.7	40	8500	482	2100		90.20	181.00	1.35	
7	26-May	Drilling	19:10	20:05	0.92	5671	5716	45	25	49.1	40	8500	482	2100		90.40	182.90	2.45	
7	26-May	Drilling	20:20	21:15	0.92	5716	5761	45	25	49.1	40	8500	482	2100		89.50	183.40	2.29	
7	26-May	Drilling	21:30	22:30	1.00	5761	5805	44	25	44.0	40	8500	482	2100		89.50	180.40	6.67	
7	26-May	Drilling	22:45	23:30	0.75	5805	5850	45	25	60.0	40	8500	482	2100		89.60	183.20	6.37	
7	26-May	Drilling	23:45	24:00	0.25	5850	5870	20	25	80.0	40	8500	482	2100		89.90	184.50	2.96	
7	27-May	Drilling	00:00	00:40	0.67	5870	5895	25	25	37.5	40	8500	482	2100		89.90	184.50	2.96	
7	27-May	Drilling	00:55	01:45	0.83	5895	5940	45	25	54.0	40	8500	482	2100		89.70	183.60	2.05	
7	27-May	Drilling	02:00	02:45	0.75	5940	5985	45	25	60.0	40	8500	482	2100		89.90	183.40	0.63	
7	27-May	Sliding	03:00	03:30	0.50	5985	5991	6	32	12.0	40	8500	509	2100	160L	90.20	184.50	2.53	
7	27-May	Drilling	03:30	04:45	1.25	5991	6030	39	25	31.2	40	8500	482	2100		90.20	184.50	2.53	
7	27-May	Drilling	05:10	06:20	1.17	6030	6075	45	25	38.6	40	8500	482	2100		89.90	181.10	7.58	
7	27-May	Drilling	07:55	09:00	1.08	6075	6120	45	15	41.5	40	8500	482	2100		89.10	183.50	5.62	
7	27-May	Drilling	09:15	09:55	0.67	6120	6140	20	15	30.0	40	8500	482	2100		89.30	190.60	15.78	
7	27-May	Drilling	10:10	11:15	1.08	6140	6165	25	20	23.1	40	8500	482	2100		89.30	190.60	15.78	
7	27-May	Drilling	11:55	13:45	1.83	6165	6210	45	20	24.5	40	8500	482	2100		88.90	183.80	1.57	
7	27-May	Drilling	14:00	16:00	2.00	6210	6254	44	20	22.0	40	8500	482	2100		89.00	185.00	2.68	
7	27-May	Drilling	17:50	19:45	1.92	6254	6264	10	20	5.2	40	8500	482	2100		88.90	184.90	0.32	
7	27-May	Drilling	20:00	22:10	2.17	6264	6344	80	20	36.9	40	8500	482	2100		89.00	184.50	0.92	
7	27-May	Drilling	22:25	23:20	0.92	6344	6366	22	20	24.0	40	8500	482	2100		89.00	183.50	2.22	
7	27-May	Sliding	23:20	24:00	0.67	6366	6369	3	32	4.5	40	8500	509	2100	10L	89.00	183.50	2.22	
7	28-May	Sliding	00:00	00:20	0.33	6369	6374	5	32	15.0	40	8500	482	2100	10L	89.00	183.50	2.22	
7	28-May	Drilling	00:20	00:55	0.58	6374	6389	15	20	25.7	40	8500	482	2100		89.00	183.50	2.22	
7	28-May	Drilling	01:10	02:55	1.75	6389	6434	45	20	25.7	40	8500	482	2100		89.50	183.80	1.30	
7	28-May	Drilling	03:10	05:15	2.08	6434	6479	45	20	21.6	40	8500	482	2100		90.90	184.70	3.70	

Slide Report for all BHA's in Job: OK-141380

Note: Surveys listed are interpolated from the actual surveys

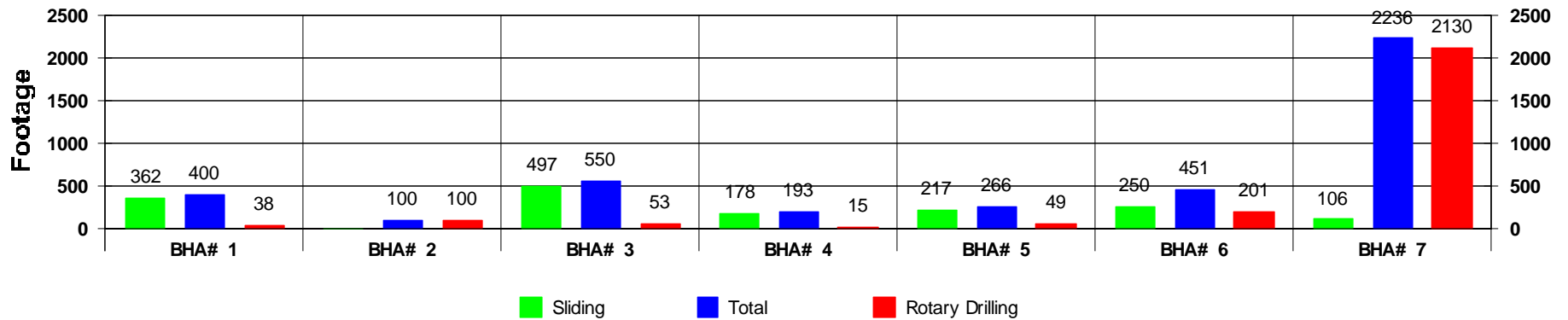
#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
7	28-May	Drilling	06:30	08:45	2.25	6479	6524	45	20	20.0	40	8500	482	2100		90.60	188.40	0.00	
7	28-May	Drilling	09:00	10:40	1.67	6524	6569	45	20	27.0	40	8500	482	2100		90.40	182.20	0.00	
7	28-May	Drilling	10:55	11:15	0.33	6569	6579	10	20	30.0	40	8500	482	2100		90.40	183.50	0.00	
7	28-May	Drilling	13:00	13:50	0.83	6579	6614	35	20	42.0	40	8500	482	2100		90.40	183.50	0.00	
7	28-May	Drilling	14:05	15:35	1.50	6614	6659	45	20	30.0	40	8500	482	2100		90.30	183.70	0.00	
7	28-May	Drilling	16:00	17:35	1.58	6659	6704	45	20	28.4	40	8500	482	2100		90.50	188.50	0.00	

Total Drilled:	4196	Avg. Total ROP:	14.49	DEPTH% - TIME %
Total Rotary Drilled:	2586	Avg. Rotary ROP:	30.63	Percent Rotary: 61.63 - 29.16
Total Drilled Sliding:	1610	Avg. Slide ROP:	7.85	Percent Slide: 38.37 - 70.84

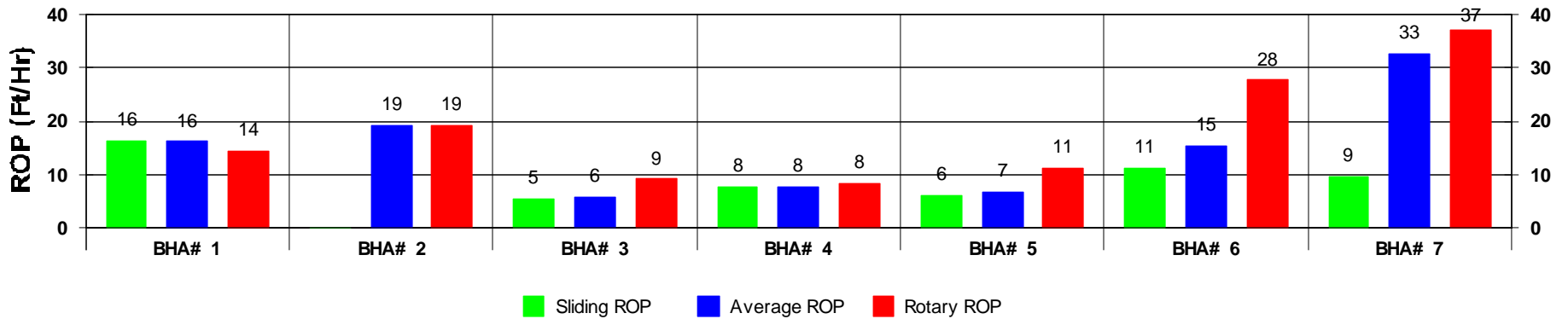


JOB NO.:	OK-141380	FIELD:	Pawnee
Company:	McElevain	Township:	
LOCATION:	Ellis Kansas	SECTRANGE:	11-T11S-R22W
RIG NAME:	HWD #7	COMMENT	
STATE:	Kansas		
COUNTY:	Trego		
WELL NAME:	Kraemer 11-4H		

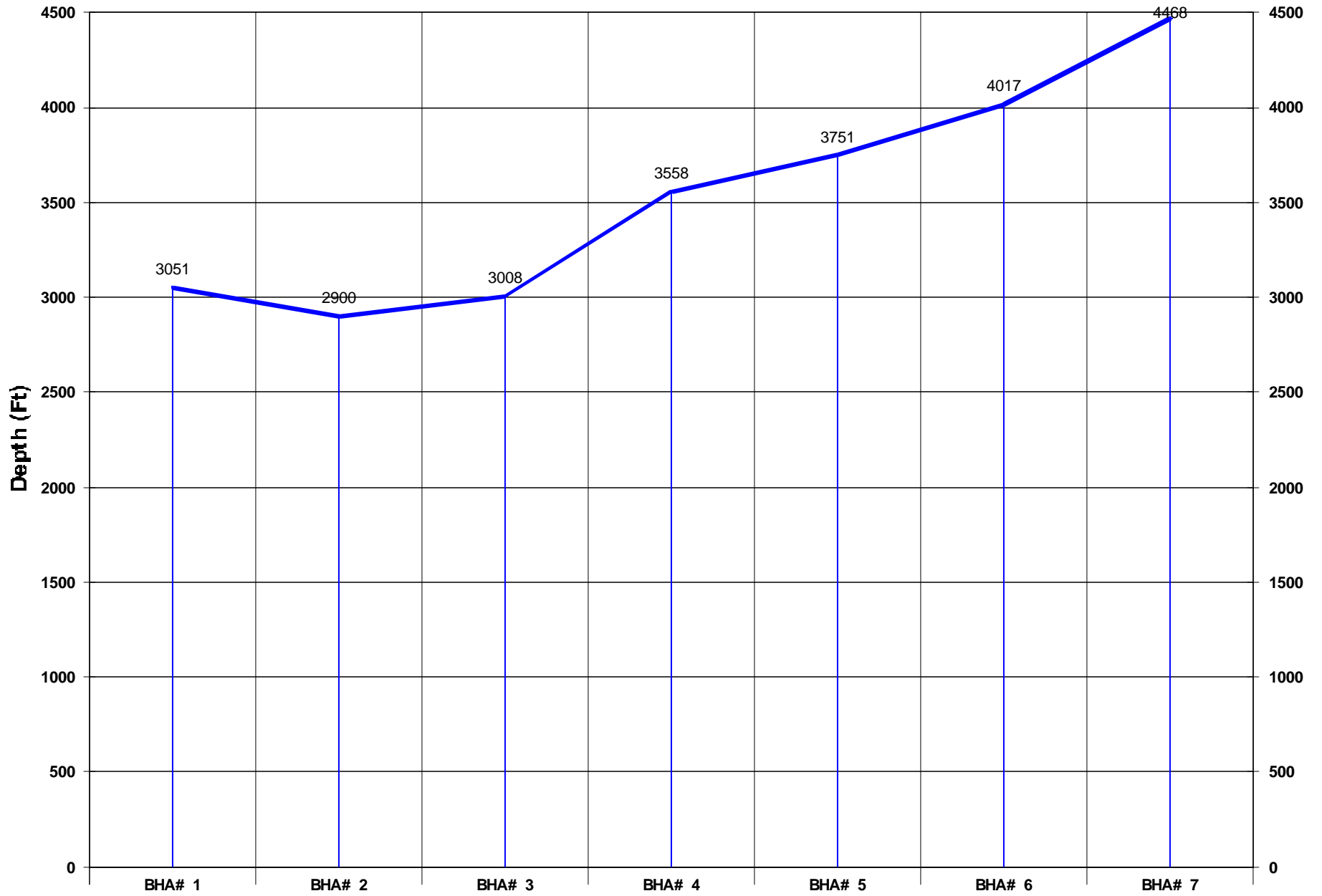
Footage Drilled with BHA



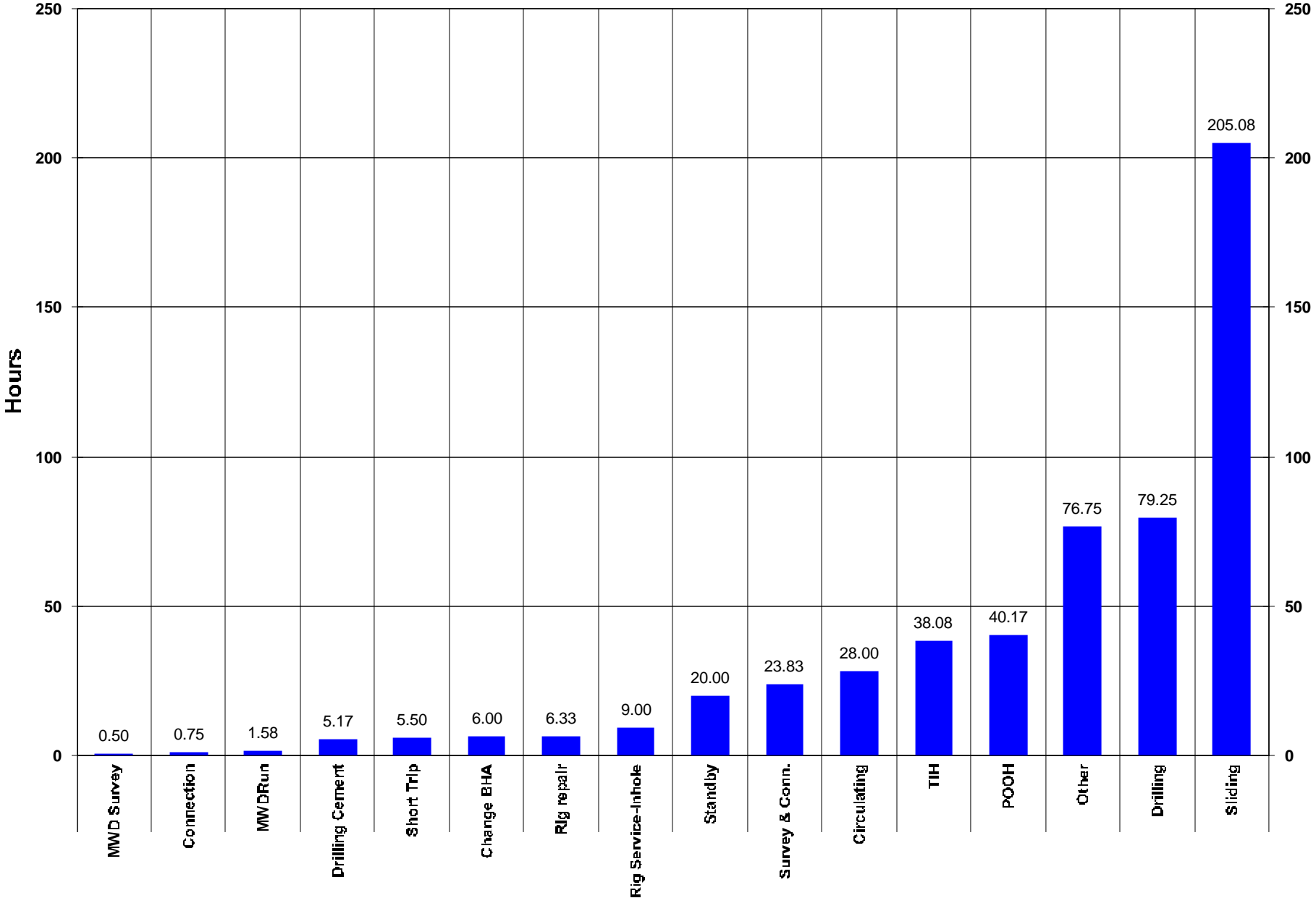
ROP vs BHA



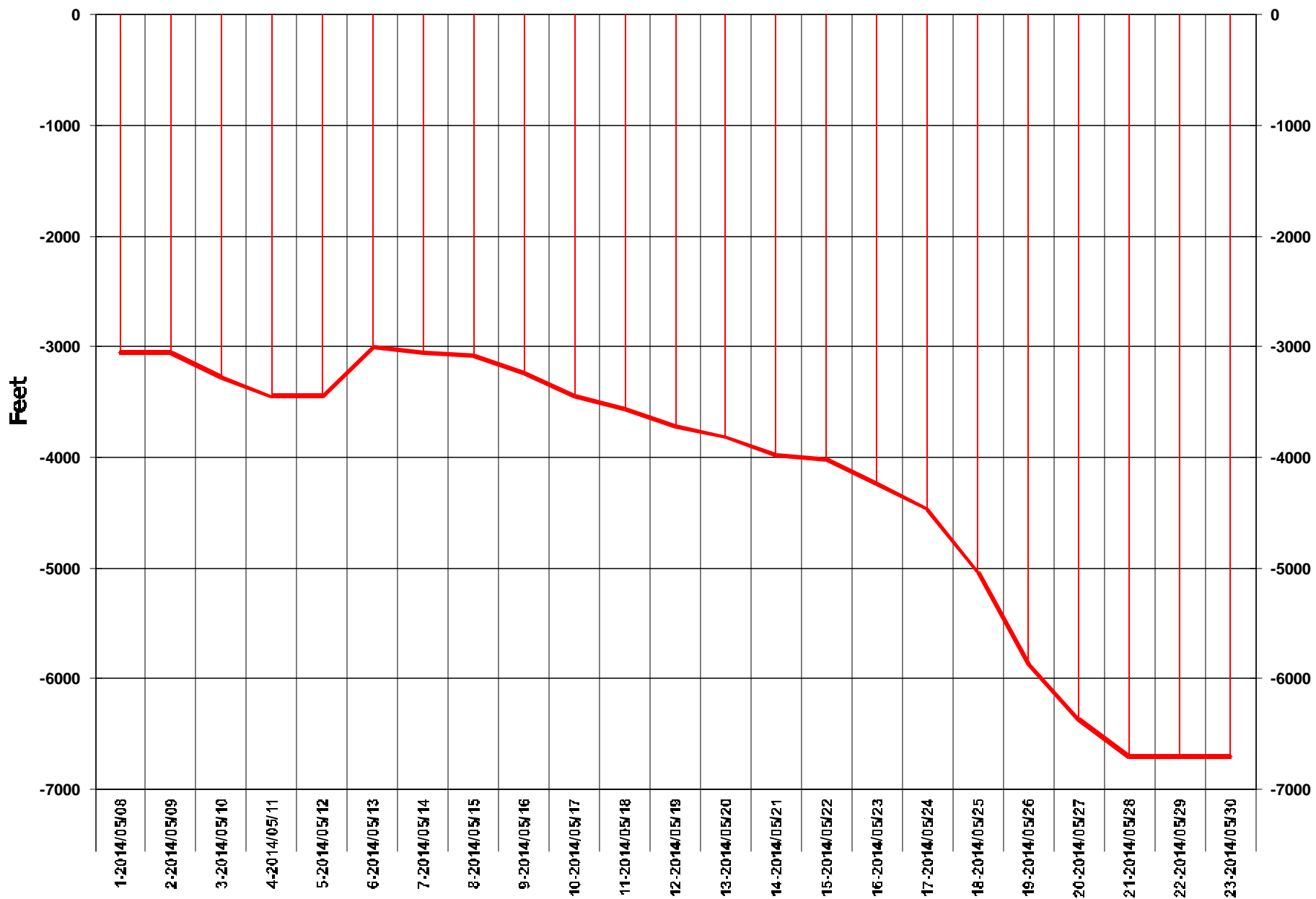
Depth vs BHA



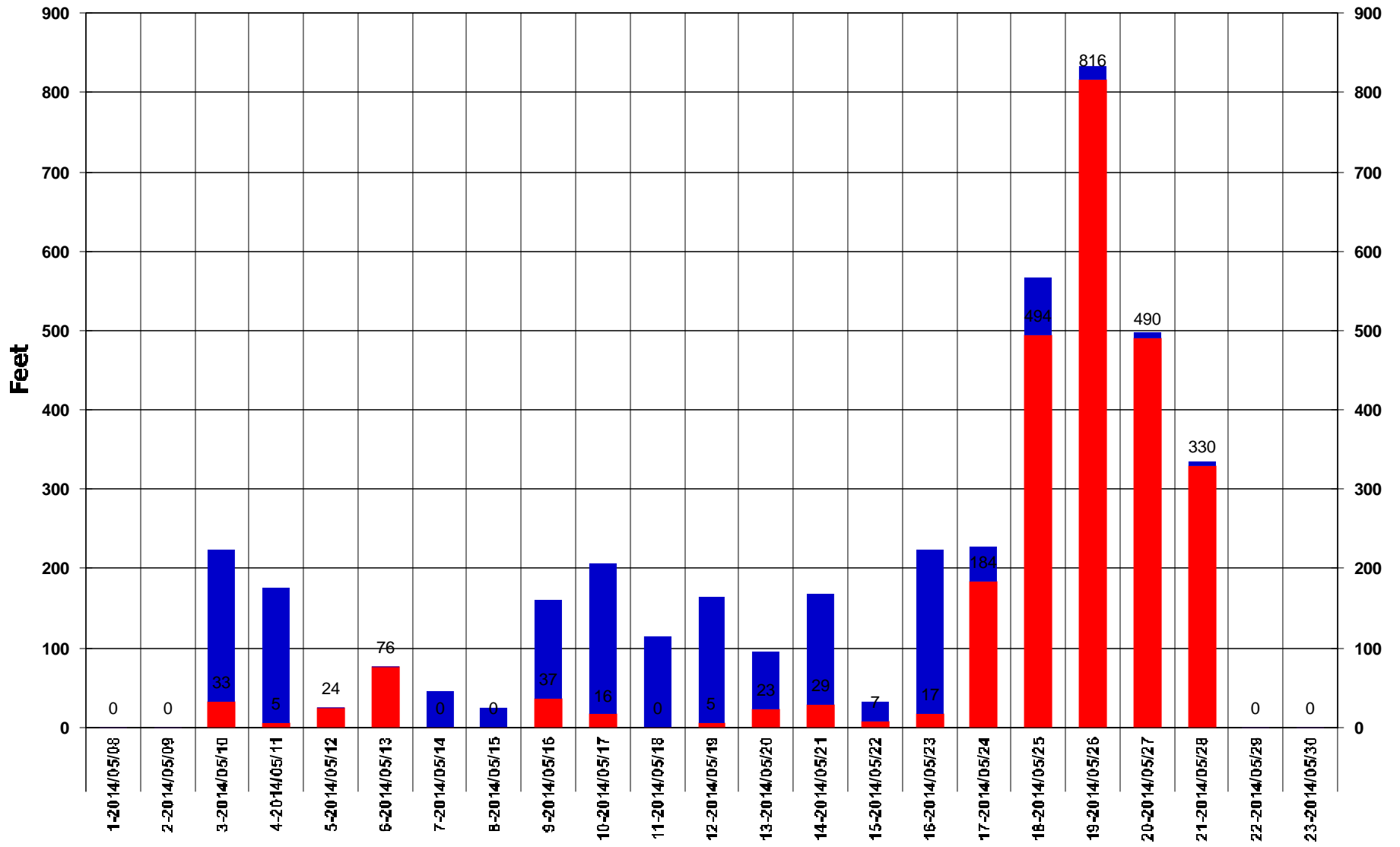
Activity Histogram



Measured Depth vs Days

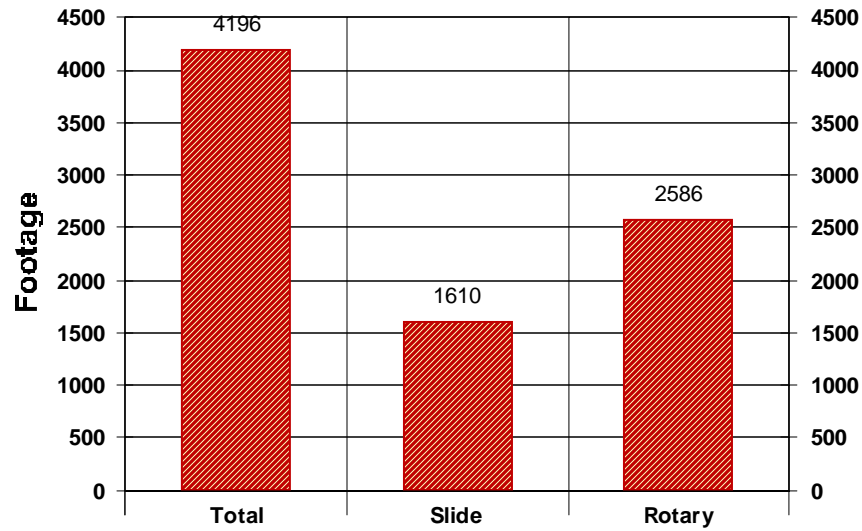


Daily Footage

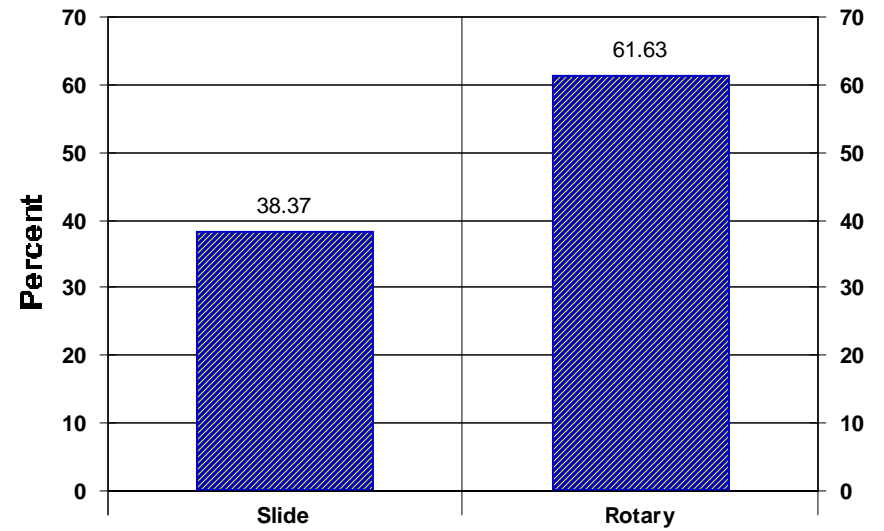


Rotary Drilling Sliding

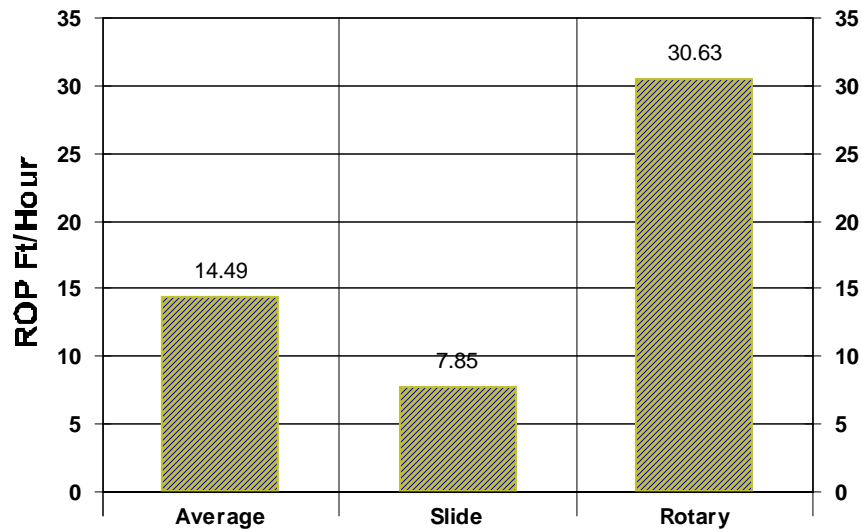
Footage Drilled Totals



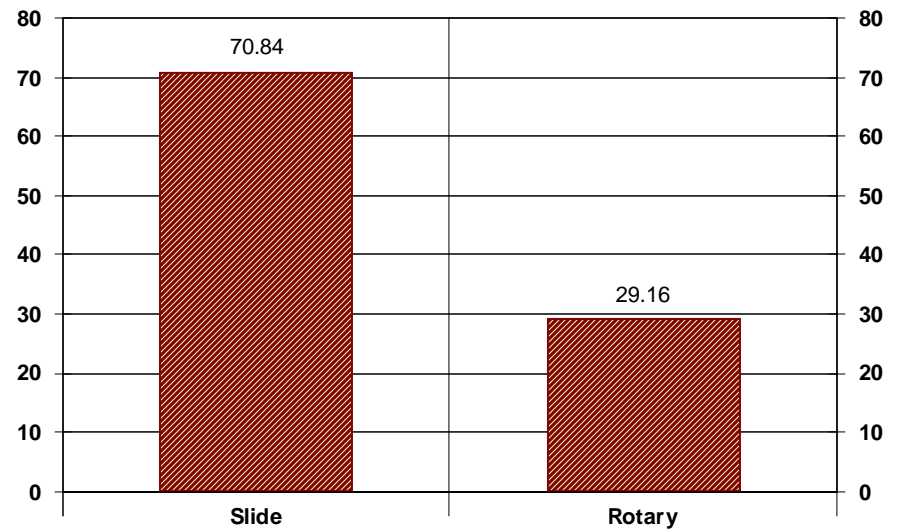
Footage Percent



Rate of Penetration Totals



Time Percent





RECEIVED

MAY 19 2014

McElvain Energy,
Denver Office

INVOICE

Invoice Number: 143103

Invoice Date: May 7, 2014

Page: 1

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
McElvain Energy, Inc 1050 17th St., Suite 2500 Denver, CO 80265-2080

Customer ID	Field Ticket #	Payment Terms	
McElv	62925	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	May 7, 2014	6/6/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Kramer #11-4H		
300.00	CEMENT MATERIALS	Class A Common	17.90	5,370.00
11.00	CEMENT MATERIALS	Chloride	64.00	704.00
400.00	CEMENT MATERIALS	AMD	25.90	10,360.00
100.00	CEMENT MATERIALS	Flo Seal	2.97	297.00
788.62	CEMENT SERVICE	Cubic Feet Charge	2.48	1,955.78
1,233.86	CEMENT SERVICE	Ton Mileage Charge	2.60	3,208.04
1.00	CEMENT SERVICE	Surface	2,443.75	2,443.75
35.00	CEMENT SERVICE	Pump Truck Mileage	7.70	269.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
35.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	154.00
1.00	EQUIPMENT SALES	9-5/8 Guide Shoe	553.00	553.00
1.00	EQUIPMENT SALES	9-5/8 AFU Float Collar	1,210.00	1,210.00
1.00	EQUIPMENT SALES	9-5/8 Rubber Plug	240.00	240.00
2.00	EQUIPMENT SALES	Thread Lock	85.00	170.00
2.00	EQUIPMENT SALES	9-5/8 Basket	595.00	1,190.00
8.00	EQUIPMENT SALES	9-5/8 Centralizer	90.00	720.00
1.00	CEMENT SUPERVISOR	Dustin Chambers		
1.00	EQUIPMENT OPERATOR	Kevin Eddy		
1.00	OPERATOR ASSISTANT	Kevin Weighous		
1.00	OPERATOR ASSISTANT	Joshua Ellis		

Surface Cement

Code: 4225

MAY 23 2014

Approved: *[Signature]*

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 8,153.61

ONLY IF PAID ON OR BEFORE

Jun 1, 2014

Subtotal	29,120.07
Sales Tax	1,592.27
Total Invoice Amount	30,712.34
Payment/Credit Applied	
TOTAL	30,712.34

discount - 8,153.61

Total => 22,558.73

ALLIED OIL & GAS SERVICES, LLC 062925

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Cotton Bend, TX

DATE <u>5-7-14</u>	SEC. <u>11</u>	TWP. <u>11S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION <u>3:30pm</u>	JOB START <u>10:00am</u>	JOB FINISH <u>11:30pm</u>
LEASE <u>Krgemay</u>	WELL# <u>11-44</u>	LOCATION <u>F-70 Ekt 135 9N 1/4E</u>	COUNTY <u>Trego</u>		STATE <u>KS</u>		
OLD OR (NEW) (Circle one)			<u>SINTO</u>				

CONTRACTOR HWD #7
 TYPE OF JOB 9 5/8 Surface
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 9 5/8 DEPTH 2205
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL float collar DEPTH 2156
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 49 FT
 PERFS.
 DISPLACEMENT 167.25 bbls

OWNER
 CEMENT
 AMOUNT ORDERED 400 SKS Class A + 29 gyp
+ 275 pnt + 275 salt + 1/2 Flo + 4 gyl
300 SKS class A + 34 cc
 COMMON 300 @ 17.90 5,370.00
 POZMIX @
 GEL @
 CHLORIDE 11 @ 64.00 704.00
 ASC @
400 SKS AMP @ 25.90 10,360.00
Flo-seal 100 @ 2.97 297.00
 @
Materials Total 16,731.00
Disc @ (28%) 4684.68
 @
Service
 HANDLING 754.62 @ 2.45 1955.78
 MILEAGE 1233.86 2.60 3208.02

EQUIPMENT

PUMP TRUCK CEMENTER Dustin Chambers
 # 597 HELPER Kevin Eddy
 BULK TRUCK
 # 599 DRIVER Kevin Werybauss
 BULK TRUCK
 # 609-239 DRIVER Josh Ellis

REMARKS:

Break circulation with Big mud
Pump Ball through @
Mix 400 SKS Lead Cement
Mix 300 SKS Tail Cement
Shut down & Release plug
Displace 167.25 bbls Release & float
ball shut down
Put down plug down 10:15 PM
Cement did off cut at @ 109 bbls
58,25 bbls to pit

DEPTH OF JOB 2205
 PUMP TRUCK CHARGE 2443.75
 EXTRA FOOTAGE @
 MILEAGE HVM 35 @ 7.70 269.50
 MANIFOLD @
Cement Head Rental @ 275.00 275.00
HVM 35 @ 4.40 154.00

CHARGE TO: McElvain Energy
 STREET 1050 17th St. Suite 2500
 CITY Denver STATE CO ZIP 80265

TOTAL 8306.05
(28%) 2325.69

PLUG & FLOAT EQUIPMENT

9 5/8
 Guide Shoe 1 @ 553.00 553.00
 AFU float collar 1 @ 1210.00 1210.00
 Rubber Plug 1 @ 240.00 240.00
 Thread Lock 2 @ 85.00 170.00
 Cement Basket 2 @ 595.00 1190.00
 Centralizers 8 @ 90.00 720.00

TOTAL 4083.00
(28%) 1143.24

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
 TOTAL CHARGES 29,120.05
 DISCOUNT 8153.61 (28/28/28)
 IF PAID IN 30 DAYS

PRINTED NAME x Mark Hicks
 SIGNATURE x Mark Hicks
Thank You!!

20,966.44



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 143537

Invoice Date: May 31, 2014

Page: 1

Bill To:
McElvain Energy, Inc 1050 17th St., Suite 2500 Denver, CO 80265-2080

RECEIVED
JUN 09 2014
McElvain Energy, Inc.
Denver Office

Customer ID	Field Ticket #	Payment Terms	
McElv	62991	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	May 31, 2014	6/30/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Kreamer #1 1-4H		
915.00	CEMENT MATERIALS	Class A Common	17.90	16,378.50
11.00	CEMENT MATERIALS	Gel	23.40	257.40
112.00	CEMENT MATERIALS	CD-31	10.30	1,153.60
972.00	CEMENT MATERIALS	SA-45	3.47	3,372.84
17.75	CEMENT MATERIALS	Gyp Seal	37.62	667.77
79.00	CEMENT MATERIALS	Flo Seal	2.97	234.63
451.00	CEMENT MATERIALS	FL-160	18.90	8,523.90
1,200.00	CEMENT MATERIALS	Kol Seal	0.98	1,176.00
150.00	CEMENT MATERIALS	Defoamer	9.80	1,470.00
100.00	CEMENT MATERIALS	Sugar	2.00	200.00
3,400.00	CEMENT MATERIALS	CSB 100	1.35	4,600.00
1,072.64	CEMENT SERVICE	Cubic Feet Charge	2.48	2,660.15
1,651.65	CEMENT SERVICE	Ton Mileage Charge	2.60	4,294.29
1.00	CEMENT SERVICE	Production Casing	3,651.25	3,651.25
35.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	269.50
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
70.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	308.00
3.00	EQUIPMENT SALES	5-1/2 Basket	395.00	1,185.00
8.00	EQUIPMENT SALES	5-1/2 Centralizer	85.00	680.00
4.00	EQUIPMENT SALES	Thread Lock	57.00	228.00

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 14,444.02

ONLY IF PAID ON OR BEFORE
Jun 30, 2014

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 143537

Invoice Date: May 31, 2014

Page: 2

Bill To:
McElvain Energy, Inc 1050 17th St., Suite 2500 Denver, CO 80265-2080

Customer ID	Field Ticket #	Payment Terms	
McElv	62991	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Great Bend	May 31, 2014	6/30/14

Quantity	Item	Description	Unit Price	Amount
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	EQUIPMENT OPERATOR	Mike Scothorn		
1.00	EQUIPMENT OPERATOR	Daniel Casper		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	CEMENT SUPERVISOR	Joshua Isaac		

Kraemer 11 #4H
Cement 5-1/2" p-110 to surface
Code: ~~4205~~ 5,225
[JUN 12 2014]
Approved: JMM

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 14,444.02

ONLY IF PAID ON OR BEFORE
Jun 30, 2014

Subtotal	51,585.83
Sales Tax	3,069.76
Total Invoice Amount	54,655.59
Payment/Credit Applied	
TOTAL	54,655.59

<14,444.02>

\$ 40,211.57

ALLIED OIL & GAS SERVICES, LLC 062991

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
great Bend

DATE <i>5-31-14</i>	SEC. <i>11</i>	TWP. <i>11</i>	RANGE <i>22</i>	CALLED OUT <i>4:30pm</i>	ON LOCATION <i>9:30pm</i>	JOB START <i>3:00am</i>	JOB FINISH <i>5:00am</i>
LEASE <i>Reamer</i>		WELL # <i>11-4H</i>		LOCATION <i>I 70 Exit 135 9N 8E</i>		COUNTY <i>Steph</i>	STATE <i>K1</i>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<i>Sclnta</i>			

CONTRACTOR <i>HWD #7</i>	
TYPE OF JOB <i>production</i>	
HOLE SIZE <i>7 7/8</i>	T.D.
CASING SIZE <i>5 1/2 17#</i>	DEPTH <i>6709.17</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <i>2800</i>	MINIMUM <i>850</i>
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <i>H2O 159 BBI</i>	
EQUIPMENT	

PUMP TRUCK # <i>597</i>	CEMENTER <i>Charles Kingler</i>
	HELPER <i>Mike Withorn</i>
BULK TRUCK # <i>870-844</i>	DRIVER <i>Dan Casper</i>
BULK TRUCK # <i>609-239</i>	DRIVER <i>Ben Newell</i>
<i>603</i>	<i>Josh Dmac</i>

REMARKS:

*Rig Ran 6709' 5 1/2' csg B broke csg
w/ Rig Mad hook to head 5881 H2O
50 BBI 58100 5 BBI H2O mix 315.44 lead
600 # Tail pump 2 BBI sugar H2O
ahead of plug shut down wind
pump & line Release plus displ
10 BBI sugar 700 # 199 BBI H2O
land plus a 1350 psi Release
float held pressure to 2800 psi
burst disk pump 1 BBI*

CHARGE TO: *Mc E Brown energy*
STREET _____
CITY _____ STATE _____ ZIP _____

OWNER <i>Name</i>	
CEMENT	
AMOUNT ORDERED	<i>315.44 class A 37.24 #5</i>
	<i>37.80 #2.25 #4 600 #4 class A</i>
	<i>27.00 .81 #1-160 .157 SA 45 .27 CD 31</i>
	<i>2# Kolread per # .257 DF</i>
COMMON	<i>915 @ 17.90 16.378.50</i>
POZMIX	@
GEL	<i>11 @ 23.40 257.40</i>
CHLORIDE	@
ACE <i>CD-31</i>	<i>112 @</i>
<i>SA 45</i>	<i>972 @ 3.47 3.372.84</i>
<i>Gyc Seal</i>	<i>888 @ 37.60 667.71</i>
<i>Flascol</i>	<i>79 @ 2.97 234.63</i>
<i>R1-160</i>	<i>451 @ 18.90 8.523.90</i>
<i>Kolread</i>	<i>1200 @ .98 1.176.00</i>
<i>DF</i>	<i>150 @ 9.80 1470.00</i>
<i>Sugar</i>	<i>100 @ 2.00 200.00</i>
<i>CSB 100</i>	<i>3400 @ 115.00 4.600.00</i>
HANDLING	@
MILEAGE	<i>36881.04</i>
<i>28%</i> TOTAL <i>10.326.69</i>	

SERVICE

DEPTH OF JOB	<i>6709.17</i>
PUMP TRUCK CHARGE	<i>3.651.25</i>
EXTRA FOOTAGE	@
MILEAGE <i>Hum 35</i>	<i>@ 7.70 269.50</i>
MANIFOLD	<i>@ 275.00 275.00</i>
<i>Hum 70</i>	<i>@ 4.40 308.00</i>
	@
<i>Handlin</i>	<i>1.072.64 2.48 2.660.14</i>
<i>Mileage</i>	<i>97.19 x 35 x 2.60 TOTAL 4.294.29</i>
<i>28%</i> <i>11.458.11</i>	
<i>3.204.29</i>	

PLUG & FLOAT EQUIPMENT

<i>2-Bashots</i>	<i>395.00</i>	<i>1185.00</i>
<i>8-Centralizers</i>	<i>@ 85.00</i>	<i>680.00</i>
<i>4-thread lock</i>	<i>@ 57.00</i>	<i>228.00</i>
	@	
	@	
	@	

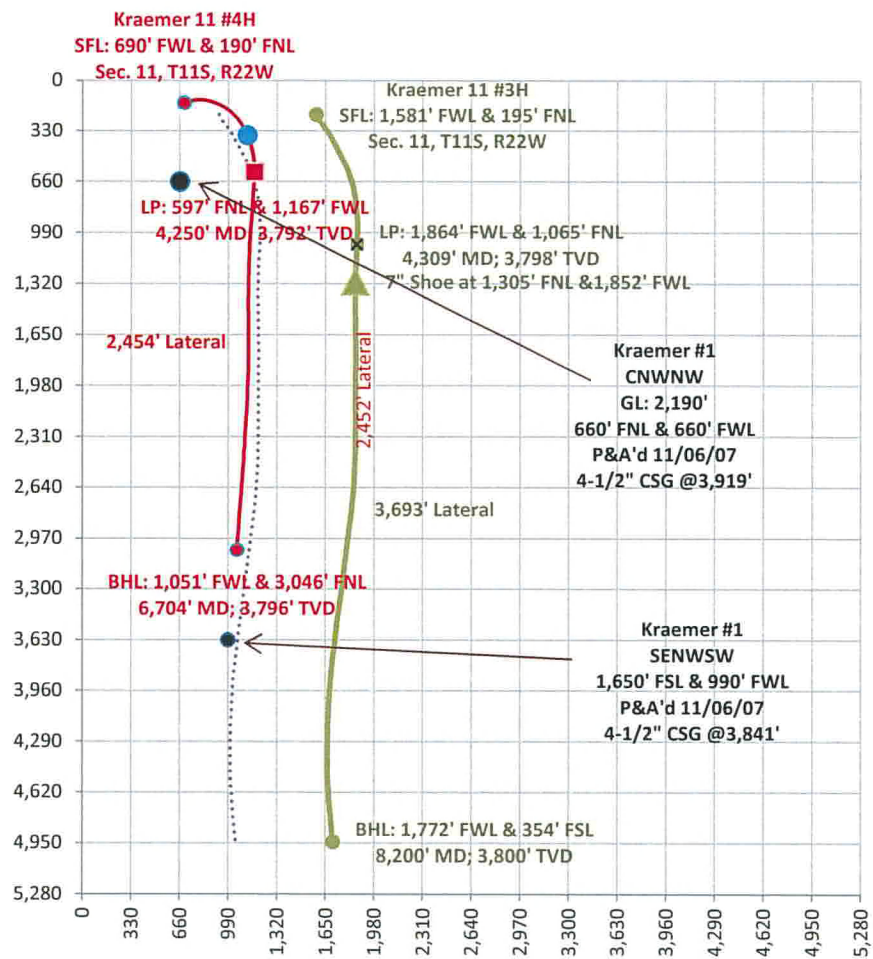
TOTAL *2093.00*
28% *586.84*

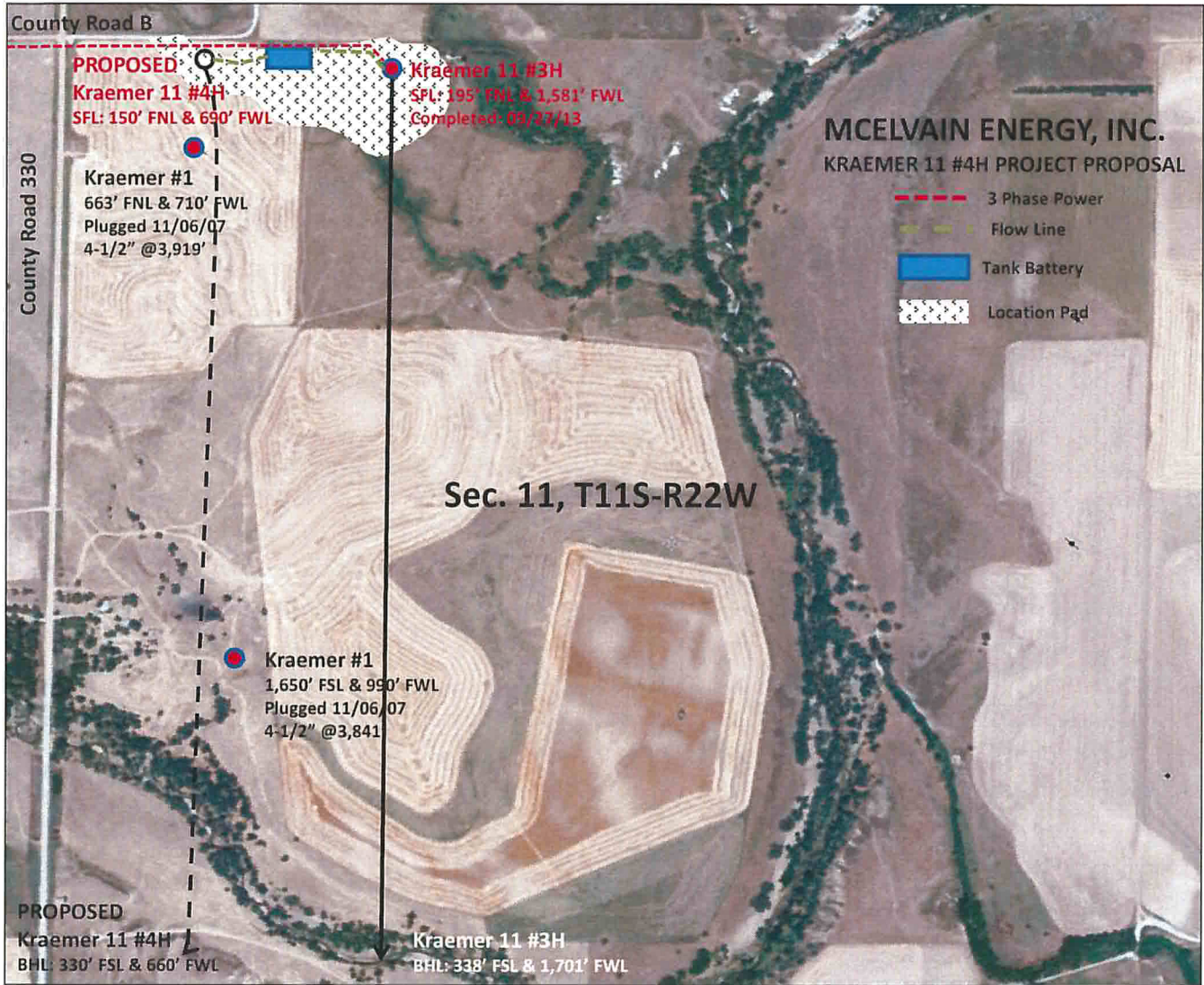
Thank you!
To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Mark Hicks*
SIGNATURE *[Signature]*

SALES TAX (If Any) _____
TOTAL CHARGES *50.432.22*
DISCOUNT *14.121.02* (28/28/28)
IF PAID IN 30 DAYS
36.311.19

Kraemer 11-4H Sec. 11, T11S-R22W As Drilled Plan View





Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/17/2014
Job End Date:	6/17/2014
State:	Kansas
County:	Trego
API Number:	15-195-22941-01-00
Operator Name:	McElvain Energy, Inc.
Well Name and Number:	Kraemer 11-4H
Longitude:	-99.73788330
Latitude:	39.11710920
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	3,800
Total Base Water Volume (gal):	186,816
Total Base Non Water Volume:	



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)**	Comments
Water	McElvain	Carrier/ Base Fluid					
			Water	7732-18-5	100.00000	68.62528	
20/40 Mesh Sand	CRS/Uiniman	Propping Agent					
			Crystalline Silica (quartz)	14808-60-7	100.00000	15.38344	
Nitrogen	Air Products/ Air Liquide	Energizing Fluid					
			Nitrogen N2	7727-37-9	100.00000	15.37557	
Plex Gel 907	Chemplex	Gelling Agent					
			Guar Gum	NA	100.00000	0.11988	
Ammonium Persulfate	Chemplex	Breaker					
			Ammonium Persulfate	7727-54-0	98.00000	0.09425	
DF 100	Drilling Fluid Technologies	Foamer					
			Ethylene Glycol Buty Ether	111-76-2	25.00000	0.02937	
			Isopropyl Alcohol	67-63-0	15.00000	0.01762	
			Methanol	67-56-1	10.00000	0.01175	
Plexsurf 210E	Chemplex	Flowback Aid					
			Methyl Alcohol	67-56-1	30.00000	0.01987	
			Alcohol Alkoxylate	NA	20.00000	0.01324	
			Ethyleneglycol Monobutyl Ether	111-76-2	5.00000	0.00331	

Plexbore 101	Chemplex	Crosslinker					
			Potassium Metaborate	13709-94-9	30.00000	0.02631	
Plexbreak 134	Chemplex	Nonemulsifier for acid					
			Isopropyl Alcohol	67-63-0	20.00000	0.00667	
Plexcide P5	Chemplex	Industrial Water Treatment					
			Methanol	67-56-1	20.00000	0.00255	
			Tributyl tetradecyl phosphonium	81741-28-8	5.00000	0.00064	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Claymax	Chemplex	Frac Gel KCL Substitute					
			No Haderous Ingredients	NA	100.00000	0.07668	
Plexgel Breaker 10L	Chemplex	Frac Gel Breaker					
			No haderous ingredients	NA	100.00000	0.00549	

* 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%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)