[redacted]

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1243543

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 # 3273
Name: HERMAN L. LOEB, LLC
Address 1: PO BOX 838
Address 2:
City: LAWRENCEVILLE State: IL Zip: 62439 + _ _ _ _
Contact Person: Jesse Middagh
Phone: (618) 943-2227
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Thomas Pronold
Purchaser: NA

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 #:

01/20/2015	01/31/2015	02/01/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-119-21386-00-00
Spot Description:
NW SW SE SW Sec. 15 Twp. 33 S. R. 26 ☐ East ☑ West
500 Feet from ☐ North / ☑ South Line of Section
1485 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Meade
Lease Name: NIKA Well #: 1-15
Field Name:
Producing Formation: NA
Elevation: Ground: 2162 Kelly Bushing: 2175
Total Vertical Depth: 7228 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1490 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: 4300 ppm Fluid volume: 140 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Max Papay LLC
Lease Name: SNEED 2-14 License #: 34021
Quarter NW Sec. 14 Twp. 34 S. R. 30 ☐ East ☑ West
County: Meade Permit #: D27876.0

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: 02/26/2015
☑ **Confidential Release Date:** 02/25/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/26/2015

[redacted]

1243543

Operator Name: HERMAN L. LOEB, LLC Lease Name: NIKA Well #: 1-15

Sec. 15 Twp. 33 S. R. 26 ☐ East ☑ West County: Meade

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Microlog
ACRT
Porosity

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Conductor	22.0	20.0	54.0	113	Grout	80	Standard
Surface	12.25	8.625	23.0	1490	Basic	330	See Tkt# 05237

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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 *(Amount and Kind of Material Used)*	Depth
	Top Plug	CIBP w/ 20 sks	60
	3rd Plug	CIBP w/ 50 sks	350
	2nd Plug	CIBP w/ 50 sks	1530
	Bottom Plug	CIBP w/ 50 sks	7155
	Heavy Mud	To Bottom	

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

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☑ Other *(Specify)* Dry Hole

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	NIKA 1-15
Doc ID	1243543

Tops

Name	Top	Datum
Heebner Shale	4227	-2050
Lansing 'A'	4410	-2233
Stark Shale	4901	-2724
Marmaton	5035	-2858
Pawnee	5148	-2971
Chester	5495	-3318
St. Gen	5840	-3663
St. Louis	6107	-3930
Spergen	6247	-4070
Viola	6954	-4777
Simpson	7107	-4930
Arbuckle	7165	-4988

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	NIKA 1-15
Doc ID	1243543

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	22.0	20.0	54.0	113	Grout	80	Standard
Surface	12.25	8.625	23.0	1490	Basic	330	See Tkt# 05237

Operator: Herman L. Loeb
Address: P.O. Box 838
Lawrenceville, IL
62439-0838

Thomas G. Pronold
Consulting Petroleum Geologist
2250 No. Rock Road, No. 118-I
Wichita, KS 67226
P/316-687-5758 M/316-461-8127
tpronold@sbcglobal.net

Well Name: Nika 1-15
Location: 500' FSL & 1485' FWL Sec. 15 T33S R26W, Meade County, KS
API No.: 15-119-21386
Field Name: Wildcat
Spud Date: 01/20/2015 Drilling Completed: 01/30/2015
Bottom Hole Location: As above
Ground Level: 2164' (After location was built) KB Elevation: 2177'
Logged Interval: 4300' TO: 7235'
Drilling Fluid Type: Freshwater/Gel to 2700', Chemical/Gel to 7235'

DST #1 Chester 'B' 5508-5540 30"-60"-45"-90" Initial Open: Strong Blow, B. O. B. 25 sec's., No blow back, bled off in 3 ½ min., Final open: Strong Blow, B. O. B. immed., No blow back, bled off in 5 min. Rec. 1077' GIP, 2' DM (100% M), IHP 2688#, IFP 15-20#, ISIP 1425#, FFP 7-8#, FSIP 1888#, FHP 2653, BHT NA Cl 4,000 ppm

DST #2 Chester 'C' 5563-5612 15"-45"-45"-90" Initial Open: Strong blow, B. O. B. in 20 sec's., No blow back, bled off in 10 min., Final open: Strong Blow, B. O. B. immed., No blow back, Bled off in 15 min., GTS 30" into 2nd op. At 35": 11#, 1/8" choke, GA 9.5 MCF; at 40": 13#, 1/8" choke, GA 10.3 MCF; at 45": 13#, 1/8" choke, GA 10.3 MCF. Rec. 5612' GIP, 62' GWCM (3% G, 7% W, 90% M), IHP 274#, IFP 39-47#, ISIP 1769#, FFP 32-57#, FSIP 1657#, FHP 2684 BHT 120 Deg. F Cl 18,000 ppm.

DST #3 Viola 6940-7014 15"-45"-15"-45" Initial Open: Weak ¼" Blow, Final open: Weak Surface Blow, No blow back during either shut-in. Rec. 5' Mud, IHP 3692#, IFP 29-33#, ISIP 1306#, FFP 35-37#, FSIP 430#, FHP 3458# BHT 137 Deg. F

COMMENTS

01/17/15 KODA Set 100' of 20" conductor. Set at 113' KB. Also installed 5' x 5' round, corrugated cellar. 01/19/15 MIRU Sterling Drilling Rig 5. 01/20/2015 Spud 12 ¼"" Surface hole at 2:00 AM. Drilling 12 1/14" Surface hole at 425'. 01/21/15. Waiting on cement at 1495'. 01/22/2015 Drilling 7 7/8" hole at 2233' 01/23/2015 Drilling at 3800'. 01/24/2015 Drilling ahead at 5100'. 01/25/2015 On bottom with DST #1 at 5540'. 01/26/2015 Laying down test tool at 5612'after DST #2. 01/27/2015 Drilling at 6215'. 01/28/2015 Drilling ahead at 6855'. 01/29/2015 Trip out at 7014' for DST #3. 01/30/2015 Drilling ahead at 7170'. 01/31/2015 Laying down drill pipe at 7235' RTD.

20" Conductor set at 113' (KB). Set new 23# 8 5/8" surface pipe at 1490' KB with 330 sks A-Conn; 3% CC, ¼# PolySal. tailed with 150 sks Premium plus 2% CC, ¼# PolySeal.

Surveys: ¾ deg at 1370', 1 1/4 deg at 5275, ¾ degree at 5698, ½ degree at 7200, ¾ degree at 7235.

Pipe strap at DST #1. 0.79 Long to board. No correction made to board.

Log tops: Heebner Shale 4227 (-2050), Lansing 'A' 4410 (-2233), Stark Shale 4901 (-2724), Marmaton 5035 (-2858), Pawnee 5148 (2971), Chester 5495 (-3318), St. Genevieve 5840 (-3663), St. Louis 6107 (-3930), Spergen 6247 (-4070), Viola 6954 (-4777), Simpson 7107 (-4930), Arbuckle 7165 (-4988).

The Gamma Ray curve was lowered by 5 feet to better match the drilltime and sample description.

After review of Electric Logs, Drillstem test results and sample description the operator has elected to plug and abandon the Nika 1-15.

ROP min/ft 0.1 – 10.0 | Gamma Ray 1.0 – 200.0 | SHOWS | DSTs | DEPTH | Lithology | Description | Total Gas 0.50 – 500.00 | C1 C2 C3 iC4 nC4

Shale: Lt-med gry, micaceous, sli carb
Limestone: Lt tn-lt gry, fnxl, foss, dns
Shale: Gry-drk gry, micaceous
Limestone: Tn-gry, fnxln, foss, dns
Shale: Gry, slty, micaceous
Limestone: Lt tn-lt gry, vfnxln, foss, shly, dns
Gry-grn, slty
Limestone: Lt gry-wh, med-crs grn, ool, foss, fair por, no stain, no show
Limestone: Lt gry-wh, vfnxln to chky, med grn, foss, dns
Wh-lt tn, vfnxln to chky, prt sparry
Oolitic Limestone: Wh, med grn, ool, foss, fair por, no stn, no show
Limestone: Wh-lt brn mott, fn-med grn, dns, prt chky
Limestone: Wh-tn, fn-med grn, prt chky
Limestone: Wh-lt gry, fn-med grn, well cmtd, dns
Shale and Limestone Interbeds: Gry-brn, slty, sli carb, dns
Limestone: Gry-lt gry, fnxln to med grn, foss, dns
Limestone: Lt gry, fn-med grn, sli inter grn por, no show
Limestone: Wh-lt gry, vfnxln, w/ chrt, gry, frsh
Limestone: Wh-lt tn, vfnxln-chky, foss ool, no stn, no show
Shale Black: Blky, carb
Limestone and Shale Interbeds: Drk brn-gry, fnxln dns, w/ sh, gry, dk gry
Shale Black: Blky, carb
Limestone: Gry-brn, med grn, sli por, no show
Shale Black: Blky, carb
Limestone: Gry-brn, med grn, shly, tite
Limestone: Lt tn, med-crs grn, sli por, no stn, no flour
Shale and Limestone Interbeds: Lt gry-grn, slty, micaceous, w/ lmst interbeds
Limestone: Tn-lt gry, med-crs grn, foss, well cmtd
Shale Black: Blky, carb
Limestone: Lt gry-wh, vfnxl to chky, no por
Limestone: Tn-lt gry, med-crs grn, foss, sli por, no show
Shale: Gry, fiss, foss, plty
Limestone: Tan-wh, med-crs grn, foss, sli por, no stain, no show
Shale: Dk gry, blk, blky, carb
Limestone: Lt gry, lt tn, fnxln to med grn, prt chky, sli por, no stain, no fluor, no show
Shale Black: Blky, dns, carb
Limestone: Gry, lt tn, med grn, foss, dns
Shale Black: Blky, dns, carb
Limestone and Shale Interbeds: Lt gry-lt brn, med grn, foss, fnxln matrix, dns
Shale Black: Blky, dns, carb
Limestone and Shale Interbeds: Lt gry-lt brn, med grn, foss, fnxln matrix, dns
Shale and Limestone Interbeds: Lt gry-gry sh, blky, w/ lms, lt brn to off wh, med-crs grn, foss, ool, dns
Limestone: Lt brn to off wh, med grn, foss, dns
Limestone and Shale Interbeds: Lt brn-tn, crs grn, well cmtd, no por, no sho, w/ sh, gry-dk gry
Shale: Dk gry-blk, blky, hard
Limestone: Lt brn-tn, crs grn, well cmtd, no por, no sho
Shale and Limestone Interbeds: Gry-dk gry-blk sh, blky, w/ Lms, lt brn-tn, crs grn, well cmtd, no por, no sho
Limestone and Shale Interbeds: Lt brn-tn, crs grn, well cmtd, no por, no sho, w/ sh, gry-dk gry
Shale: Med gry, soft, tr glauc, fiss
Limestone: Lt tn-brn, crs grn, well cmtd, shly, w/ sh gry
Limestone with fossils: Med brn, crs grn, wh foss frag, fair inter grn por, sli fluor, no o stn, no cut
Limestone with Shale Stringers: Lt brn, foss, shly, dense w/ sh, gry, drk gry
Limestone with fossils: Lt brn, crs grn wh foss frag, fair inter grn por, sli flour, no o stn, no cut
Limestone and Shale Interbeds: Lt gry, brn, med grn, fnxln matrix, tite, w/ sh, gry, drk gry
Shale: Med gry, gry-brn, fiss
Limestone: Lt gry, crs grn, dk gry foss frag, dense
Limestone with Shale Stringers: Lt gry, crs grn, dk gry foss frag, w/ sh, gry, dk gry
Limestone: Lt gry to off wh, fnxln, foss, tite, w/ cht, lt gry
Shale with sandstone interbeds: Med gry, grn, foss
Limestone: Off wh, lt tn, fnxln to chky matrix, foss, tite
Shale Black: Blky, carb
Shale and Limestone Interbeds: Med gry, dk gry, w/ lms, lt gry, fnxln-chky, foss
Limestone: Lt gry, Fn-med grn, prt chky, dns
Shale: Lt grn, gry, mar, some mustard color, waxy
Limestone: Lt gry, fnxln, foss, tite
Shale
Sandy Limestone: Lt gry, off wh, v. sandy, tie, dns
Shale: Lt grn, gry, mar, some mustard color, waxy
Sandy Limestone: Lt gry to off wh, v. sandy, matrix support, dns, tite
Lt tn, less sandy, crs xln interbeds, well cmtd
lt tn, sandy, w/chrt, op, frsh, small oolites
Lt gry, sandy, fine ool, w/ sh, grn, drk gry
Limestone: Tn to lt brn, fine ool, sandy
Limestone: Lt tn-lt gry, crsxln, well cmtd, tite
Oolitic Limestone: Lt tn, med grn, ool, tr inter grn por, no stn, no sho
Limestone: Lt tn-off wh, fngrn, fnxln to chky, dns
Lt brn, fn-crs grn, crs xln, sandy, no por
Limestone: Lt gry-off wh, vfnxln to chky, sandy
Limestone: Lt gry to off wh, m-crs grn, pelletoid, very chky, w/ sh, mar, grn, fiss
Dolomitic Limestone: Lt tn-lt gry, f-mxln to chky, sli intergrn por, no stn, no sho
Wh w/dk gry clasts, fnxln to chky, w/ sh, mar, grn, mustard
Dolomitic Limestone: Wh, lt gry, fnxln to very chky, soft, pellitoid
inc in chlk
Dolomitic Limestone: Very chky
Dolomitic Limestone: Lt tn, fn-m grn, grny text, py
Dolomitic Limestone: Lt gry, fn grn, gritty, w/ strks Dol, tn, fn grn, dns
Med gry, fn grn, gritty, tite, dns, glauc
Med gry, fn grn, w/ crs xln lms inclusions, glauconitic
Dolomitic Limestone: Med to lt gry, mott, fn grn, grtty, w/ off wh, crs grn inclusions w/ drk clasts
Dolomitic Limestone: Med to drk gry, fn grn, grtty, shly, hrd
Dolomitic Limestone: Med to drk gry, fn grn, grtty, w/ lms, off wh, crs grn, sparry, tite
Drk gry, inc in shale content, w/ sh stks, drk gry
Limestone: Wh to off wh, fnxln matrix, almost chky, lrg foss frags, well cmtd, v fn por, no stn, no fluor, no cut
Dolomite: Lt gry, med grn-sucrosic, tite, dns
Limestone and Shale Interbeds: Lt tn, wh, vfnxln, tite, w/ sh, red
Dolomitic Limestone: Med gry, fn grn, grtty, sli por, no stn, no sho
Limestone: Lt tn-off wh, fn-mxln, prt chky, tite, dns, tr glauc
Shale: Dove gry with blk carb prtgs, some lt grn, blk
Sandy Silt: Lt gry, fn-med grn, sub-angular, well cmtd, Ca cmt, glauc, sli por, no sho
Dolomite: Lt tn-crm, sucrosic, tite and hrd, sli min fluor, no stn no sho
Tn to off wh, fn xln to sucrosic, tite and dns, no por, sli min fluor

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L. Loeb, LLC.

P.O. Box 838
Lawrenceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade, KS.

Nika # 1-15

Job Ticket: 57804 **DST#: 1**

Test Start: 2015.01.25 @ 02:59:27

GENERAL INFORMATION:

Formation: **Miss. Chester 'B'**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 05:55:12
Time Test Ended: 12:05:57

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 53

Interval: 5508.00 ft (KB) To 5540.00 ft (KB) (TVD)
Total Depth: 5540.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

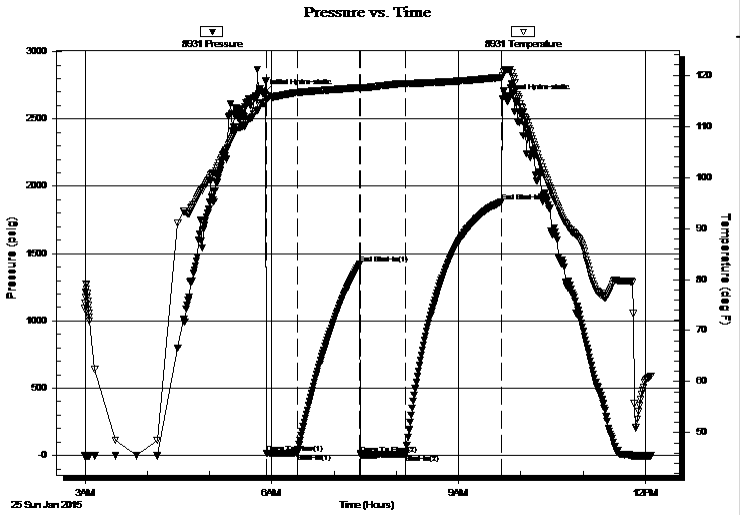
Reference Elevations: 2175.00 ft (KB)
2162.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8931 **Inside**

Press@RunDepth: 8.43 psig @ 5509.00 ft (KB)
Start Date: 2015.01.25 End Date: 2015.01.25
Start Time: 02:59:32 End Time: 12:05:57

Capacity: 8000.00 psig
Last Calib.: 2015.01.25
Time On Btm: 2015.01.25 @ 05:52:12
Time Off Btm: 2015.01.25 @ 09:42:12

TEST COMMENT:
IF: Strong blow . B.O.B. in 25 secs.
ISI: No blow . Bleed off in 3 1/2 mins.
FF: Strong blow . B.O.B. immediately.
FSI: No blow . Bleed off in 5 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2687.72	114.56	Initial Hydro-static
3	14.98	115.47	Open To Flow (1)
33	19.66	116.59	Shut-In(1)
93	1424.95	117.59	End Shut-In(1)
94	6.70	117.48	Open To Flow (2)
137	8.43	118.32	Shut-In(2)
230	1887.55	119.59	End Shut-In(2)
230	2653.40	119.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM 100%m	0.01
0.00	1077' G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L. Loeb, LLC.

P.O. Box 838
Lawrenceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade, KS.

Nika # 1-15

Job Ticket: 57804 **DST#: 1**

Test Start: 2015.01.25 @ 02:59:27

GENERAL INFORMATION:

Formation: **Miss. Chester 'B'**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 05:55:12
Time Test Ended: 12:05:57

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 53

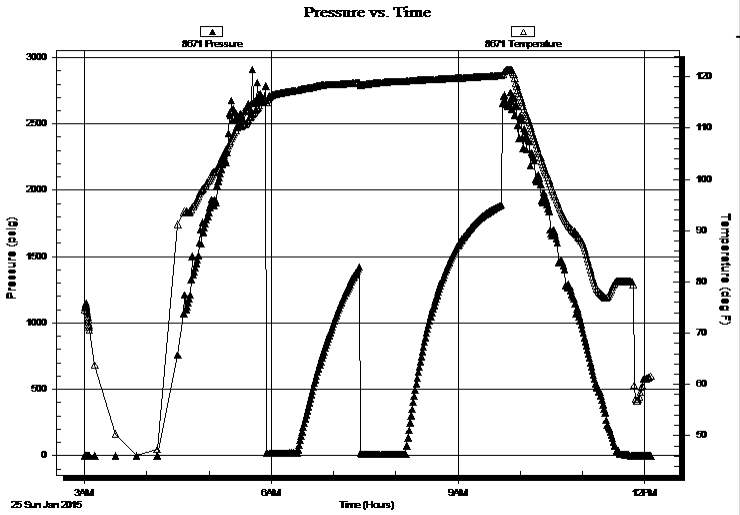
Interval: 5508.00 ft (KB) To 5540.00 ft (KB) (TVD)
Total Depth: 5540.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2175.00 ft (KB)
2162.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8671 **Outside**

Press@RunDepth:	psig @	5509.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2015.01.25	End Date:	2015.01.25	Last Calib.:	2015.01.25
Start Time:	02:59:57	End Time:	12:06:22	Time On Btm:	
				Time Off Btm:	

TEST COMMENT:
IF: Strong blow. B.O.B. in 25 secs.
ISI: No blow. Bleed off in 3 1/2 mins.
FF: Strong blow. B.O.B. immediately.
FSI: No blow. Bleed off in 5 mins.



PRESSURE SUMMARY

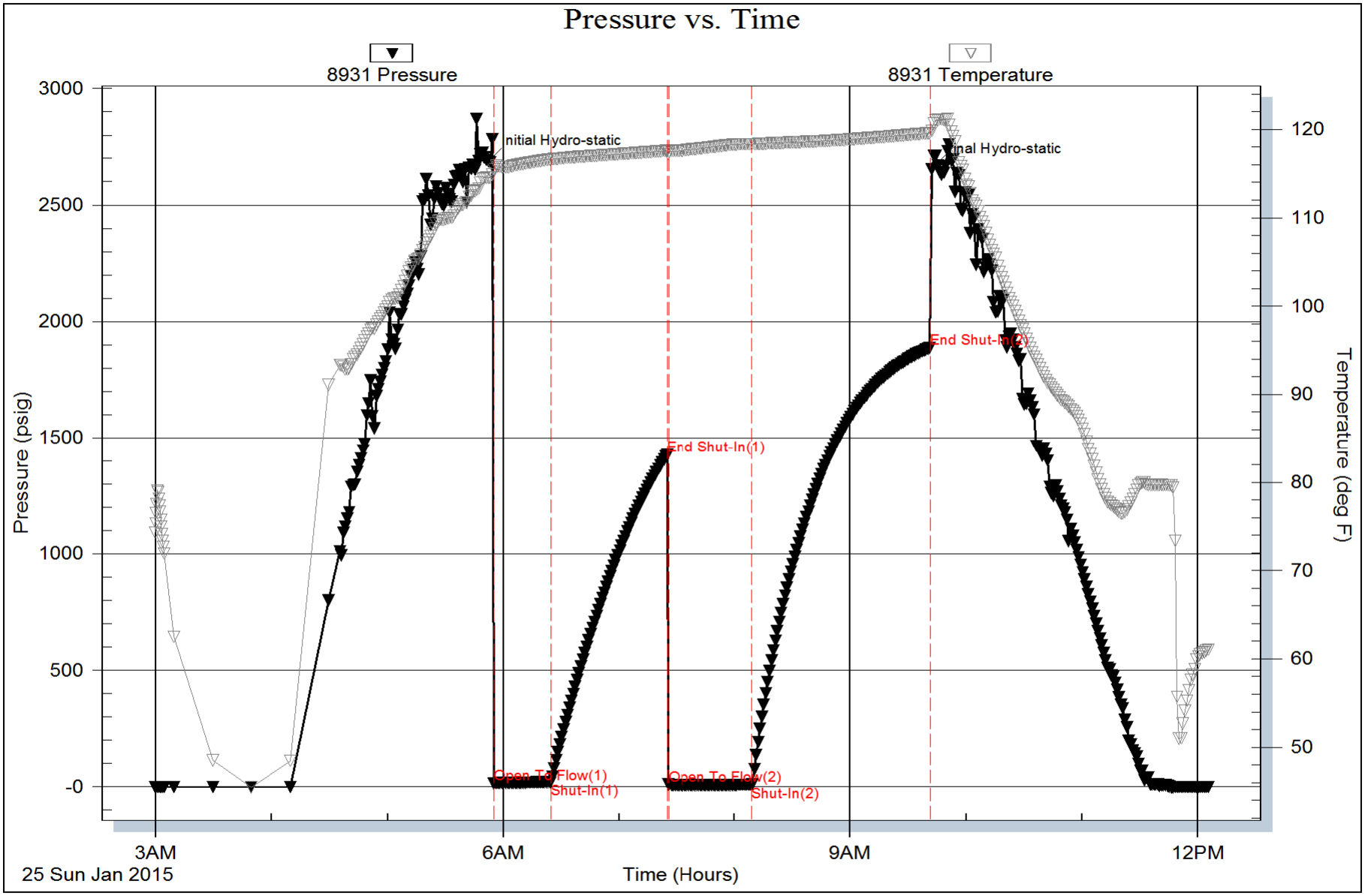
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

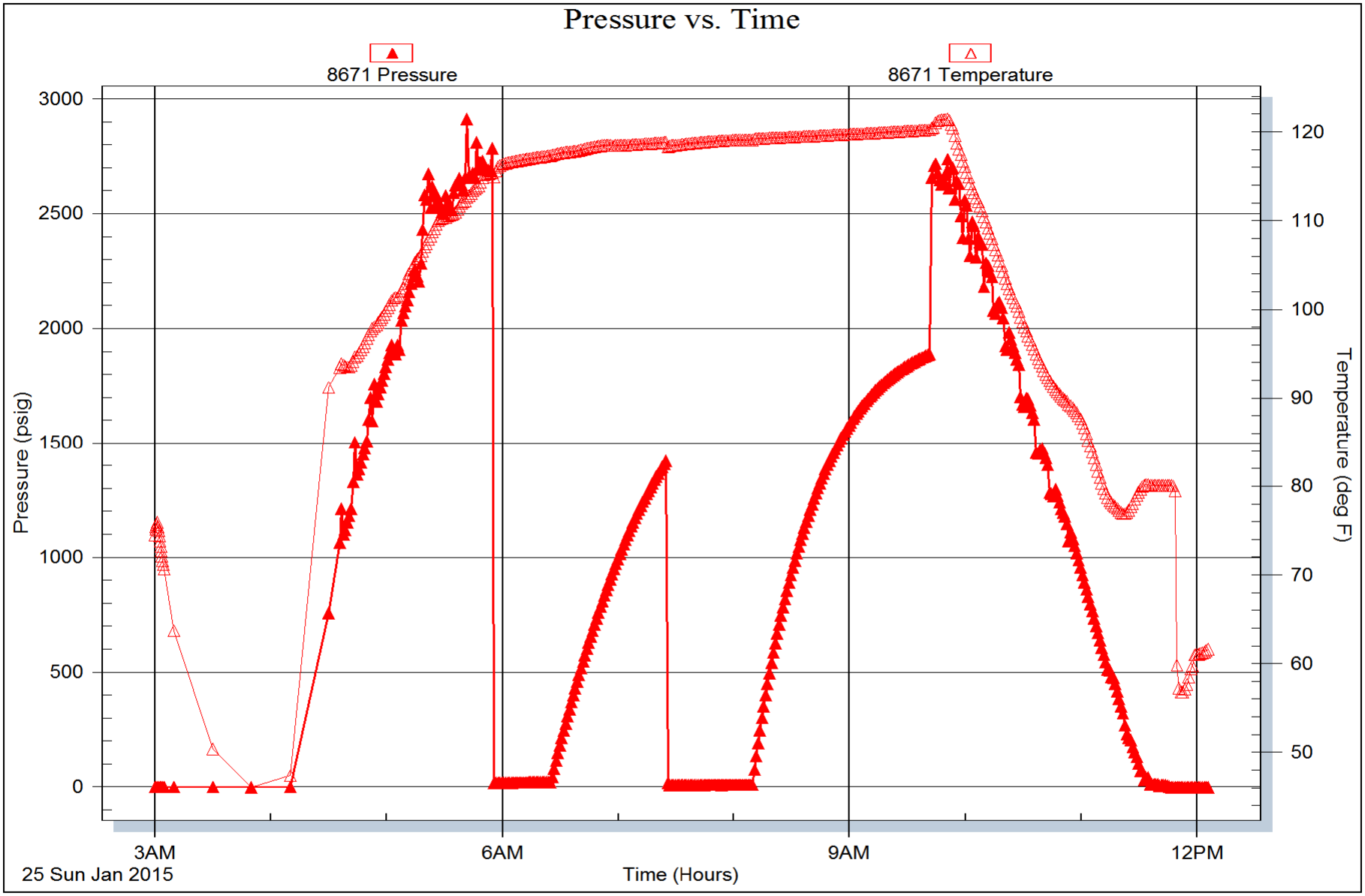
Length (ft)	Description	Volume (bbl)
2.00	DM 100%m	0.01
0.00	1077' G.I.P. 100%g	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)


Pressure vs. Time
8931 Pressure
8931 Temperature
Pressure (psig)
Temperature (deg F)
3000
2500
2000
1500
1000
500
-0
120
110
100
90
80
70
60
50
nitial Hydro-static
nal Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
3AM
6AM
9AM
12PM
25 Sun Jan 2015
Time (Hours)

Serial #: 8671 **Outside** Herman L. Loeb, LLC. Nika # 1-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57804 Printed: 2015.01.25 @ 13:47:15

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.

P.O. Box 838
Law renceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade, KS.

Nika # 1-15

Job Ticket: 57805 **DST#: 2**

Test Start: 2015.01.25 @ 21:41:29

GENERAL INFORMATION:

Formation: **Miss. Chester 'C'**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 00:59:44
Time Test Ended: 07:13:29

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 53

Interval: 5563.00 ft (KB) To 5612.00 ft (KB) (TVD)
Total Depth: 5612.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

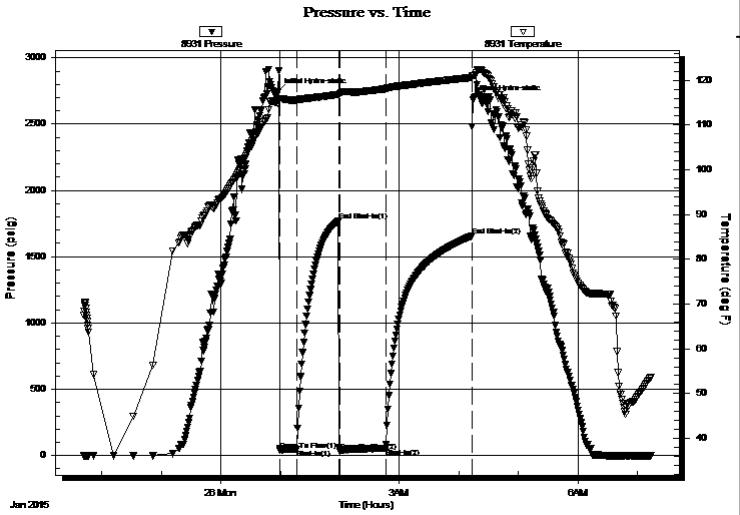
Reference Elevations: 2175.00 ft (KB)
2162.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8931 **Inside**

Press@RunDepth: 57.01 psig @ 5564.00 ft (KB)
Start Date: 2015.01.25 End Date: 2015.01.26
Start Time: 21:41:34 End Time: 07:13:29

Capacity: 8000.00 psig
Last Calib.: 2015.01.26
Time On Btm: 2015.01.26 @ 00:57:14
Time Off Btm: 2015.01.26 @ 04:14:14

TEST COMMENT:
IF: Strong blow . B.O.B. in 20 secs.
ISI: No blow . Bleed off in 10 mins.
FF: Strong blow . B.O.B., immediate. G.T.S. Gauged gas in 30 mins., See gas report.
FSI: No blow . Bleed off in 15 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2741.33	114.88	Initial Hydro-static
3	39.40	115.93	Open To Flow (1)
19	47.19	115.48	Shut-In(1)
62	1768.53	116.85	End Shut-In(1)
63	32.35	117.09	Open To Flow (2)
109	57.01	118.10	Shut-In(2)
196	1656.51	120.63	End Shut-In(2)
197	2683.69	121.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWCM 3%g 7%w 90%m	0.30
0.00	G.T.S G.I.P. 100%g	0.00
0.00	RW .58 @ 45 degrees = 18000 chlorides	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	11.00	9.51
Last Gas Rate	0.13	13.00	10.26
Max. Gas Rate	0.13	13.00	10.26

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC.

P.O. Box 838
Law renceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade, KS.

Nika # 1-15

Job Ticket: 57805 **DST#: 2**

Test Start: 2015.01.25 @ 21:41:29

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	18000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.58 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4700.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GWCM 3%g 7%w 90%m	0.305
0.00	G.T.S G.I.P. 100%g	0.000
0.00	RW .58 @ 45 degrees = 18000 chlorides	0.000

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: MAS Pratt

Laboratory Name: Caraw ay Laboratory Location: Liberal, KS

Recovery Comments: Gauged gas see gas report. RW is .58 @ 45 degrees = 18,000 chlorides.

DRILL STEM TEST REPORT

GAS RATES

Herman L. Loeb, LLC.

P.O. Box 838
Law renceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade, KS.

Nika # 1-15

Job Ticket: 57805 **DST#: 2**

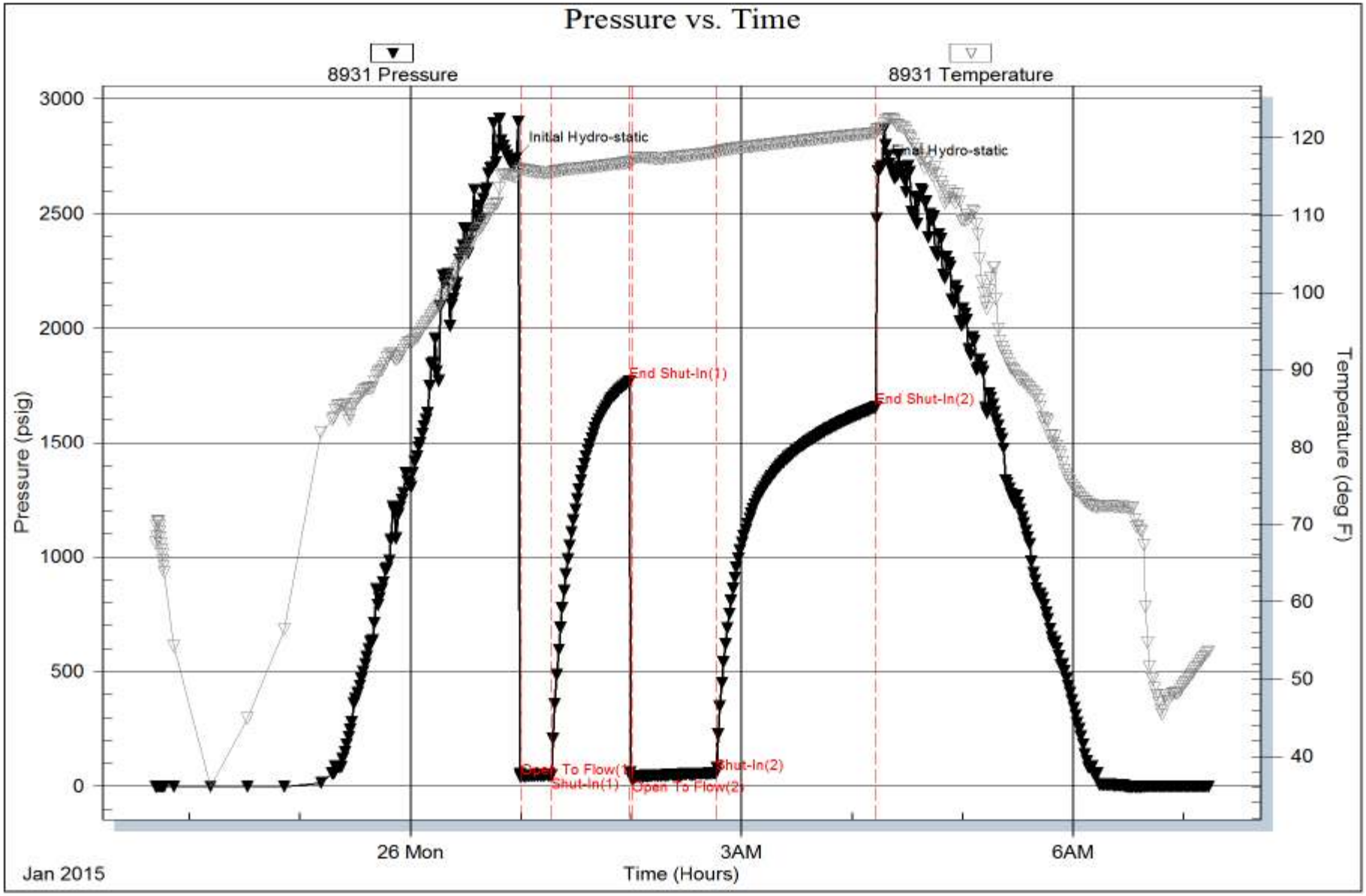
Test Start: 2015.01.25 @ 21:41:29

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	35	0.13	11.00	9.51
2	40	0.13	13.00	10.26
2	45	0.13	13.00	10.26


Pressure vs. Time
8931 Pressure
8931 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
3000
2500
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
26 Mon
3AM
6AM
Jan 2015
Time (Hours)

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.

P.O. Box 838
Law renceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade

Nika 1-15

Job Ticket: 59899 **DST#: 3**

Test Start: 2015.01.29 @ 06:29:20

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 08:35:48
Time Test Ended: 14:33:48

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

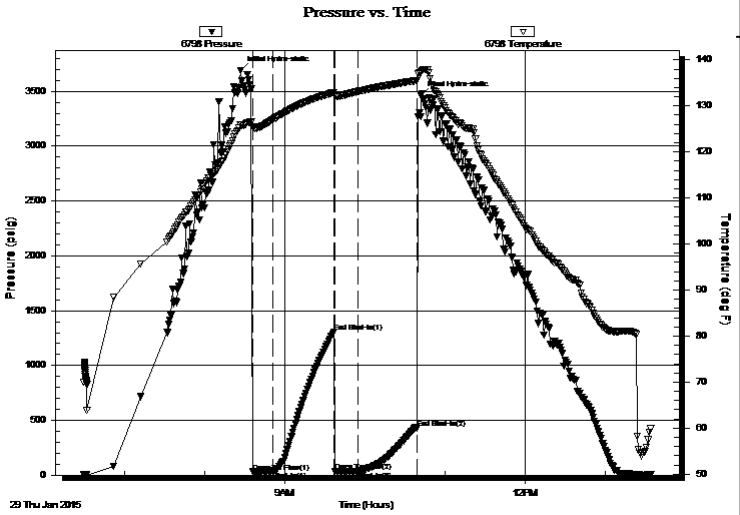
Interval: 6940.00 ft (KB) To 7014.00 ft (KB) (TVD)
Total Depth: 7014.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2175.00 ft (KB)
2162.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6798 **Inside**

Press@RunDepth:	36.98 psig @	6941.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2015.01.29	End Date:	2015.01.29	Last Calib.:	2015.01.29
Start Time:	06:29:21	End Time:	13:33:48	Time On Btm:	2015.01.29 @ 08:26:48
				Time Off Btm:	2015.01.29 @ 10:42:03

TEST COMMENT:
IF: Weak 1/4 inch Blow
ISI: No Blow Back
FF: Weak Surface Blow
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3692.03	125.87	Initial Hydro-static
9	29.52	125.39	Open To Flow (1)
24	32.90	127.00	Shut-In(1)
70	1305.60	132.91	End Shut-In(1)
71	34.97	132.27	Open To Flow (2)
88	36.98	133.13	Shut-In(2)
132	430.15	135.51	End Shut-In(2)
136	3458.28	137.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC.

P.O. Box 838
Law renceville, IL. 62439

ATTN: Tom Pronold

15-33s-26w Meade

Nika 1-15

Job Ticket: 59899 **DST#: 3**

Test Start: 2015.01.29 @ 06:29:20

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4300.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

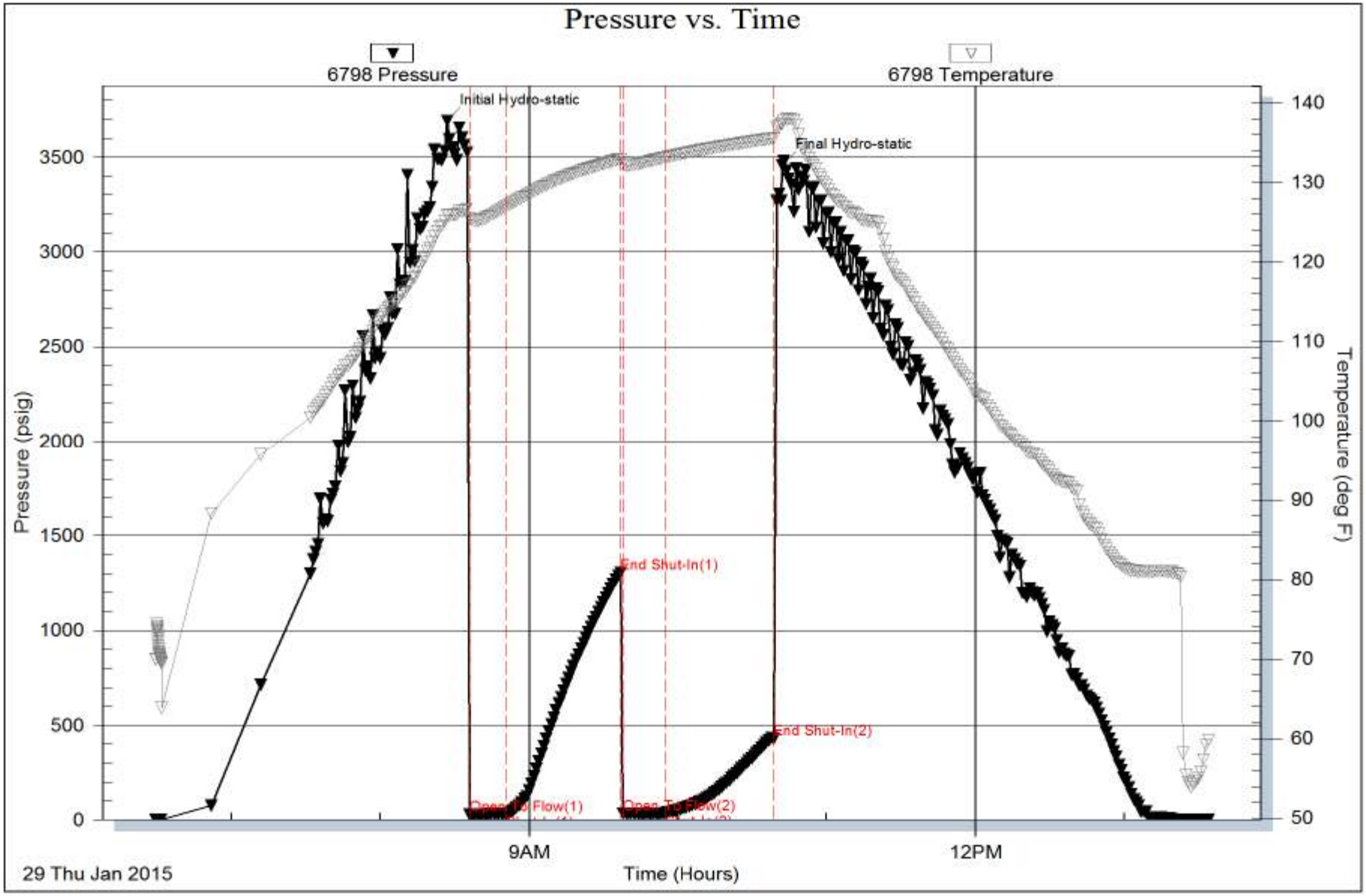
Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
Time (Hours)
9AM
12PM
29 Thu Jan 2015
0
500
1000
1500
2000
2500
3000
3500
50
60
70
80
90
100
110
120
130
140

6076
KA
6438

BASIC ENERGY SERVICES

1 of 1	100758	1717	01/22/2015

INVOICE NUMBER
91707272

Liberal (620) 624-2277

BILL TO
HERMAN L LOEB LLC
PO Box: 838
LAWRENCEVILLE
IL US 62439
ATTN: ACCOUNTS PAYABLE

JOB SITE

LEASE NAME	Nika # 1-15
LOCATION	
COUNTY	Meade
STATE	KS
JOB DESCRIPTION	Cement-New Well Casing/Pi
JOB CONTACT	

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40808070	27462		Net 30 days	02/21/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 01/21/2015 to 01/21/2015				
0040808070				
171705237A Cement-New Well Casing/Pi 01/21/2015				
8 5/8 Surface				
A-Con' Blend	330.00	EA	11.87	3,918.06 T
Premium Plus Cement	150.00	EA	10.40	1,560.72 T
Calcium Chloride	1,215.00	EA	0.67	814.35 T
Celloflake	120.00	EA	2.36	283.42 T
C-51	63.00	EA	15.96	1,005.37 T
"Guide Shoe - Regular, 8 5/8"" (Blue)"	1.00	EA	242.57	242.57
"Flapper Ins. Flt. Vlv., 8 5/8"" (Blue)	1.00	EA	178.73	178.73
Antelope Strd Bow Cent. 8 5/8 X 12 1/4	3.00	EA	92.56	277.67
"Cmt Basket, Canvas 8 5/8"	1.00	EA	670.25	670.25
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	143.62	143.62
Heavy Equipment Mileage	150.00	MI	4.47	670.25
Blending & Mixing Service Charge	480.00	BAG	0.89	428.96
"Proppant & Bulk Del. Chgs., per ton mil	1,130.00	EA	1.02	1,154.10
Depth Charge; 1001'-2000'	1.00	EA	957.50	957.50
Plug Container Util. Chg.	1.00	EA	159.58	159.58
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	2.71	135.65
"Service Supervisor, first 8 hrs on loc.	1.00	EA	111.71	111.71

PAID
5640
FEB 05 2015
SCANNED

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	12,712.51
TAX	542.11
INVOICE TOTAL	13,254.62

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 05237 A

DATE TICKET NO.

DATE OF JOB 1-21-15 DISTRICT 1717	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman Loeb	LEASE Nika #1-15 WELL NO.
ADDRESS	COUNTY Meade STATE KS
CITY STATE	SERVICE CREW E Mendoza, G Echavarria, S Chavez
AUTHORIZED BY T Davis	JOB TYPE: 242 8⅝ Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
18940	8				
27462	8				
30463	8				
19566	8				
3024	8				
19384	8				

	DATE	AM PM	TIME
TRUCK CALLED	1-21-15	AM PM	10:00
ARRIVED AT JOB		AM PM	1:00
START OPERATION		AM PM	4:00
FINISH OPERATION		AM PM	6:00
RELEASED		AM PM	6:00
MILES FROM STATION TO WELL	50 mi		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Alan Lotts
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CL101	✓ ACon	sk	330		6138.00
CL110	✓ Premium Plus	sk	180		2445.00
CC109	✓ Calcium Chloride	lb	1215		1275.75
CC102	✓ Cellflake	lb	120		444.00
CC130	✓ C-51	lb	63		1575.00
CE253	✓ 8⅝ Shoe	ea	1		380.00
CE453	✓ Insert		1		280.00
CE4405	✓ Centralizer		3		435.00
CE4556	✓ Basket		1		1050.00
CH105	✓ Plug		1		225.00
E101	Heavy Equipment Mileage	mi	150		1050.00
CE240	Bulk Mixed Service	sk	480		672.00
E113	Proppant + Bulk Delivery	ton/mi	1130		1808.00
CE202	Pump Charge (001-2000')	4hr	1		1500.00
CE504	Plug Container	ea	1		250.00
E100	Unit Mileage	mi	50		212.50
S003	Service Supervisor	ea	1		175.00

SUB TOTAL $12712.51

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT	%TAX ON $
MATERIALS	%TAX ON $
	TOTAL

SERVICE REPRESENTATIVE

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Alan Lotts
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: Herman Loeb	Lease No.	Date: 1-21-15	
Lease: Ulca #1-15	Well #	Service Receipt: 05237	
Casing: 8 5/8" 24# Depth: 1500'	County: Meade	State: KS	
Job Type: 242 8 5/8 Surface	Formation	Legal Description	

Pipe Data		Perforating Data		Cement Data
Casing size: 8 5/8" 24#	Tubing Size	Shots/Ft		Lead: 330 sk Alcon
Depth: 1500'	Depth	From	To	
Volume: Disp - 93 bbl	Volume	From	To	
Max Press: 1500#	Max Press	From	To	Tail in: 180 sk Class C
Well Connection: TD - 1500'	Annulus Vol.	From	To	
Plug Depth: ST - 42'	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00					on loc -
					spot trucks
					safety meeting - JSA
					start csg
					csg on btm
					pressure test 2000#
4:30	200		157	5	mix & pump 330 sk Alcon @ 11.4#
5:00	100		28	5	switch to tail 180 sk Class C @ 14.8#
5:10	100		0	5	drop plug, disp csg
5:30	1300		93	0	land plug, float held
					circ cmt surface

Service Units	18940	27462	20463 19846	33021 14204	
Driver Names	R Olivas	E Mulberg	G Edwards	S Chavez	

Customer Representative: [signature] Station Manager: T Davis Cementer: A Olivas

Taylor Printing, Inc.

6076
Nika
6438

BASIC ENERGY SERVICES

1 of 1	1007589	1717	02/02/2015

INVOICE NUMBER
91718917

Liberal (620) 624-2277

BILL TO
HERMAN L LOEB LLC
PO Box: 838
LAWRENCEVILLE
IL US 62439
ATTN: ACCOUNTS PAYABLE

JOB SITE

LEASE NAME	Nika # 1-15
LOCATION	
COUNTY	Meade
STATE	KS
JOB DESCRIPTION	Cement-New Well Casing/Pi
JOB CONTACT	

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40811711	19842		Net - 30 days	03/04/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 01/31/2015 to 01/31/2015				
0040811711				
171705251A Cement-New Well Casing/Pi 01/31/2015				
PTA				
60/40 POZ	220.00	EA	8.40	1,848.00 T
Cement Gel	380.00	EA	0.18	66.50 T
C-15	43.00	EA	8.75	376.25 T
C-20	7.00	EA	2.80	19.60 T
Heavy Equipment Mileage	150.00	MI	5.25	787.50
Blending & Mixing Service Charge	220.00	BAG	0.98	215.60
"Proppant & Bulk Del. Chgs., per ton mil	475.00	EA	1.75	831.25
Depth Charge; 7001'-8000'	1.00	EA	2,520.00	2,520.00
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	3.15	157.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	122.50	122.50

PAID
56562

SCANNED

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	6,944.70
TAX	165.19
INVOICE TOTAL	7,109.89

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 05251 A

DATE TICKET NO.

DATE OF JOB 1-31-15 DISTRICT 1717	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman Loeb	LEASE Nika #1-15 WELL NO.
ADDRESS	COUNTY Meade STATE KS
CITY STATE	SERVICE CREW I. Chavez, Victor, Norma
AUTHORIZED BY	JOB TYPE: 242 PTA

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
78938	11	38750	11	19827	11
		19842 –	1 –	37725	1

	DATE	AM PM TIME
TRUCK CALLED	1-31-15	1200
ARRIVED AT JOB	1-31-15	300
START OPERATION	1-3-15	600
FINISH OPERATION	1-3-15	130
RELEASED	1-3-15	230
MILES FROM STATION TO WELL	50	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, material products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions sha become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X Alan Loeb
(WELL OWNER, OPERATOR, CONTRACTOR OR AGEN

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CL103	60-40 Poz	sk	220		2640 00
CC200	Cement Gel	lb	380		95 00
CC103	C-15	lb	43		537 5
CC134	C-20	lb	7		28 00
E101	Heavy Equipment Mileage	mi	150		1125 00
CE240	Blending & Mixing Charge	sk	220		308 00
E113	Bulk Delivery Charge	Ton	475		1187 5
CE208	Depth Charge	4hrs	1		3600 00
E100	Pickup Mileage	mi	50		225 00
S003	Service Supervisor	EA	1		175 00

SUB TOTAL 6944 70

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Izzy Chavez

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X Alan Loeb
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: Herman Loeb		Lease No.	Date: 1-31-15
Lease: Nilla		Well #: 1-15	Service Receipt: 05251
Casing: 4 1/2 DP	Depth: 7155	County: Meade	State: KS
Job Type: 242 PTA	Formation	Legal Description	

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size: 4 1/2 DP	Shots/Ft		Lead
Depth	Depth: 7155	From	To	
Volume	Volume: 80 bbls	From	To	
Max Press	Max Press: 1000	From	To	Tail in: 220 sk 60/40 POZ
Well Connection	Annulus Vol.: 150 bbls	From	To	1.592 sk
Plug Depth	Packer Depth: —	From	To	7.56 gal/sk 13.5#

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
300					Arrive On Location
400					Safety Meeting Hold Up
540		900			Pressure Test
545		450	13.4	4	Pump cmt @ 7155'
600		450	85	4	Displace
1020		350	13.3	4	Pump cmt @ 1550'
1030		350	15	4	Displace
1220		100	13.3	4	Pump cmt @ 350'
1225		100	4	3	Displace
1240		50	8	3	Pump cmt @ 60'
1250		50	2	3	Displace
1300		50	14	3	Plug Rat & Mouse Holes
1330					Job Complete
					Thanks For Using Basic Energy Services

Service Units	78958	38750 · 19842	19827 - 37725			
Driver Names	Izzy	Victor	Norm			

Mike