



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1214187
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: _____

1214187

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	ROSENBERGER 2-29
Doc ID	1214187

Tops

Name	Top	Datum
Chase	2440	-223
Heebner Shale	4040	-1823
Lansing A	4202	-1985
Lansing/KC H	4363	-2146
KC I	4409	-2192
KC J	4449	-2232
Base Kansas City	4586	-2369
Miss. Chert	4778	-2561
Kinderhook Shale	4811	-2594

LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial

Well Name: Rosenberger #2-29
Location: 1625' FSL & 805' FEL, Sec. 29-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21788-00-00
Spud Date: 3/18/2014
Surface Coordinates: 1625' FSL & 805' FEL, Sec. 29-T27S-R18W
Region: Einsel
Drilling Completed: 3/26/2014

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2204' K.B. Elevation (ft): 2217'
Logged Interval (ft): 3900' To: 4832' Total Depth (ft): 4832'
Formation: Kinderhook at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3294'; Chemical Gel 3294' to 4832'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(Lansing 'A') 4204' - 4220'(Corrected Depths to Log) Test Times 15"-45"-15"-45" IFP Weak 0.5" Blow, FFP No Blow, no Blowback on SI's; REC: 5' Drilling Mud, no shows, no water; IFP 19-21#, ISIP 1343#, FFP 21-22#, FSIP 1279#, IHP 2075#, FHP 2065#, BHT 111 Deg. F.

DST #2(K.C. 'I' zone) 4400' - 4420'(Corrected Depths to Log)Test Times 15"-45"-45"-90" IFP Fair to Strong Blow BOB/10 Min., 0.5" Blowback on ISI, FFP Strong Blow BOB/19 Sec., no Gas to Surface; REC: 1210' Gas in Pipe, 62' GOCM(12%G, 6%O, 82%M), no Water; IFP 19-26#, ISIP 1099#, FFP 29-46#, FSIP 1331# and building, IHP 2201#, FHP 2146#, BHT 116 Deg. F.

DST #3(K.C. 'J' zone) 4442' - 4458'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/45 Sec., FFP Strong Blow Gas to Surface in 23 Min., Gauged 7.0 MCFG/45"(5# on 0.125" Choke), BOB Blowback on FSI; REC: 70' CGO(21%G, 79%O, API 41.2 Deg.), 185' GMCO(52%G, 40%O, 8%M), 105' SW, CI 111,000, Mud 4000; IFP 40-70#, ISIP 1244#, FFP 70-148#, FSIP 1240#, IHP 2168#, FHP 2105#, BHT 119 Deg. F.

DST #4(Miss. Chert) 4742' - 4798'(Corrected Depths to Log) Test Times 15"-45"-40"-120" IFP Strong Blow Gas to Surface in 4 Min. Gauged Maximum 1.284 MMCFG(68# on a 0.75" Choke), FFP Gauged Gas throughout, No Blowback on FSI; REC: 120' CGO(26%G, 74%O, API 33.8 Deg.), 360' GMCO(66%G, 24%O, 10%M), 125' GOCM(25%G, 15%O, 60%M), No Water; IFP 251-313#, ISIP 1493#, FFP 301-379#, FSIP 1501#, IHP 2303#, FHP 2290#, BHT 120 Deg. F.

Comments

3/18/14 MIRU Sterling Drilling Rig #5 Spud at 9:00 PM; 3/19/14 TD. 641' - CCH for Surface Casing; 3/20/14 TD. 712' - Rig repairs; 3/21/14 Drilling at 2800'; 3/22/14 Drilling at 3835'; 3/23/14 TD. 4224' - TOH with DST #1; 3/24/14 TD. 4424' - DST #2; 3/25/14 Drilling at 4505'; 3/26/14 TD. 4802' - CCH for DST #4; 3/27/14 RTD. 4832', LTD. 4828', Logging well; 3/28/14 RTD. 4832' - Production Casing Set.

Set new 8 5/8"(23#) Surface Casing at 636' with 350 sacks of cement(Basic Energy Services). Cement did Circulate. PD. at 12:00 Noon 3/19/14.

Set new 5 1/2"(15.5#) Production Casing at 4826' with 220 sx. of "Loeb Blend" Cement(Basic Energy Services). PD. at 5:15 AM. on 3/28/14.

Surveys: 1.25 Deg. at 712'(Bit Trip); 0.50 Deg. at 3294'(TOH for Repairs); 0.50 Deg. at 4224'(DST #1); 0.75 Deg. at 4424'(DST #2); 0.75 Deg. at 4802'(DST #4).


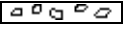



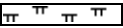
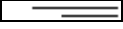

Pipe Strap at 3294'(TOH for Repairs): Strap 0.19' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data, and positive indications of commercial amounts of recoverable hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Mississippian Chert and Kansas City 'I' and 'J' zones.

LOG TOPS: Chase 2440(-223), Stotler Lmst. 3391(-1174), Howard 3598(-1381), Heebner Shale 4040(-1823), Toronto 4058(-1841), Brown Lmst. 4194(-1977), Lansing 'A' 4202(-1985), Lansing/KC 'H' 4363(-2146), KC 'I' 4409(-2192), KC 'J' 4449(-2232), Stark Shale 4497(-2280), Hertha 4554(-2337), Base Kansas City 4586(-2369), Marmaton 4632(-2415), Pawnee 4678(-2461), Cherokee Shale 4718(-2501), Miss. Chert 4778(-2561), Kinderhook Shale 4811(-2594).

NOTE: This log was shifted upward by 4' to 5' for correlation purposes with the Halliburton Logs.

ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Breclfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
 - Amph
 - Belm
 - Bioclst
 - Brach
 - Bryozoa
 - Cephal
 - Coral
 - Crin
 - Echin
 - Fish
 - Foram
 - Fossil
 - Gastro
 - Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- Siltstrg
- Ssstrg

- STRINGER**
- Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp
 - Ls
 - Mrst

- TEXTURE**
- Boundst
 - Chalky
 - Cryxln
 - Earthy
 - Finexln
 - Grainst
 - Lithogr
 - Microxln
 - Mudst
 - Packst
 - Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

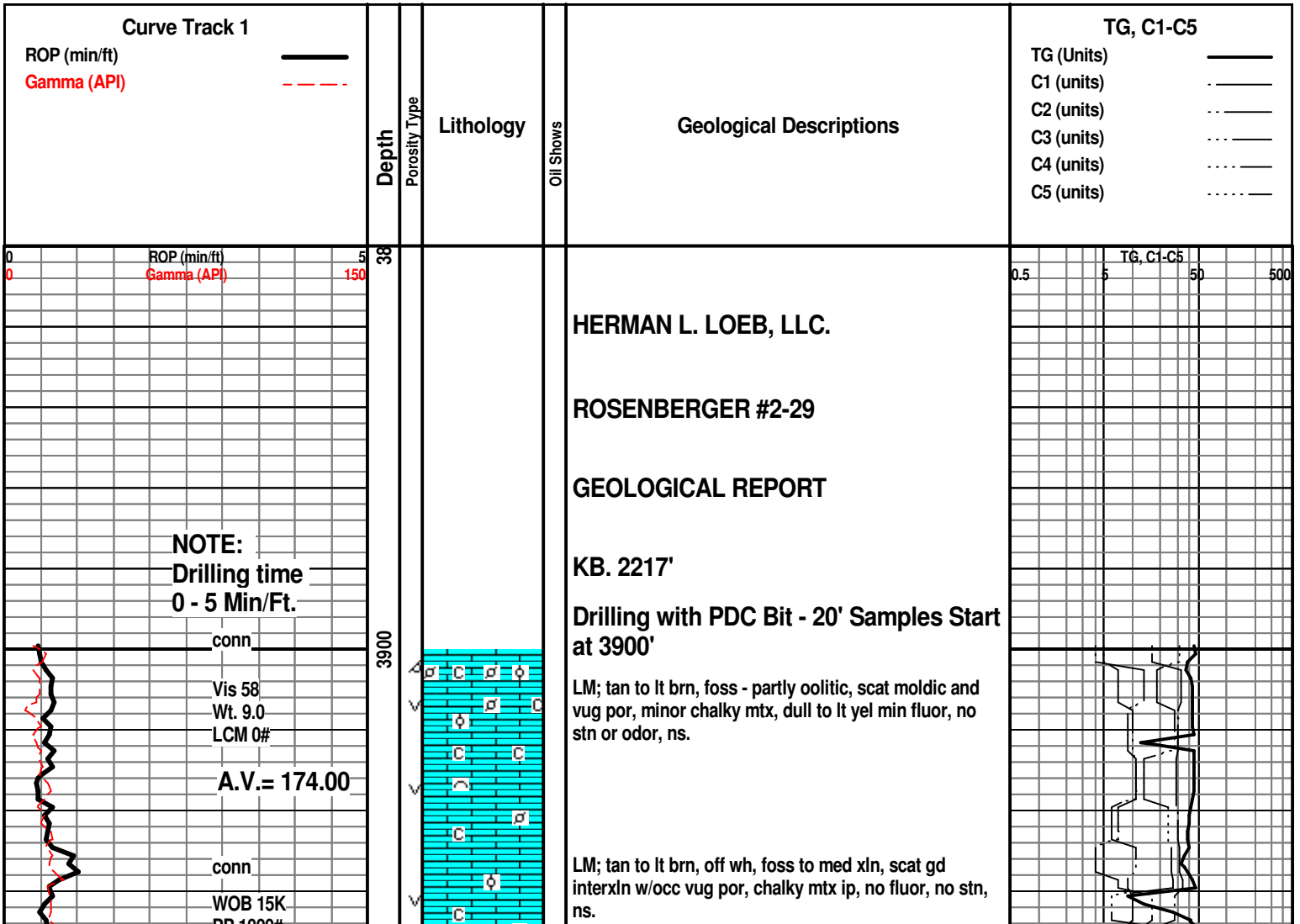
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- INTERVAL**
- Core
 - Dst

- OIL SHOW**
- Even



PP 1000#
SPM 66
RPM 80-85

conn
Vis 55
Wt. 9.1
LCM 0#

conn

ROP (min/ft)
Gamma (API)

WOB 15K
PP 1000#
SPM 65
RPM 83

conn

A.V.= 174.00

conn

MudCo. Mud
Check at 4090'
Vis 78 Wt. 9.4
WL 9.2 CI 4000
PH 10.5 LCM 0#

conn

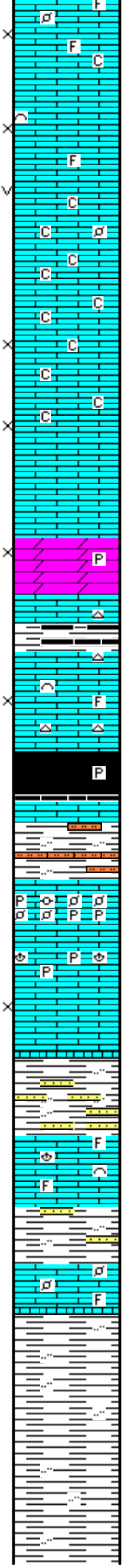
conn

WOB 14K
PP 950-1000#
SPM 60-62
RPM 80-83

conn

Vis 70+

3950
4000
4050
4100
4150



LM; brn, tan, rare lt gy brn, med to cse xln, spar calc, occ foss, most w/fair to gd interxln and scat vug por, ns.

LM; off wh, buff, lt brn, med to cse xln ip, gd interxln por, incr. chalk and chalky mtx, scat lt yel min fluor, no stn or odor, ns.

DOL; lt brn, sucrosic, poor to fair interxln por, dull yel min fluor, no stn or odor, occ pyr, no gas kick, ns.

SH; med to dk gy, some blk, platy

LM; lt to med brn, rare gy brn, most dense, scat foss mat, poor interpart por, no fluor, no stn or odor, occ gy cht, ns.

HEEBNER SHALE 4040(-1823)

SH; blk, carb, trc gas, rare pyr

LM; med to dk brn, dense

SH; grn, gy grn, silty w/interbdd sltst.

TORONTO 4058(-1841)

LM; med to dk brn, gy brn, highly foss, abnt pellets/pisolites, pyr ip, tite

LM; off wh, tan, fxln w/abnt soft chalk and chalky mtx, occ fair small vug por, dull yel min fluor, no stn or odor, ns.

DOUGLAS SHALE 4083(-1866)

TOH into Surface Casing for Rig Repairs at 4090'

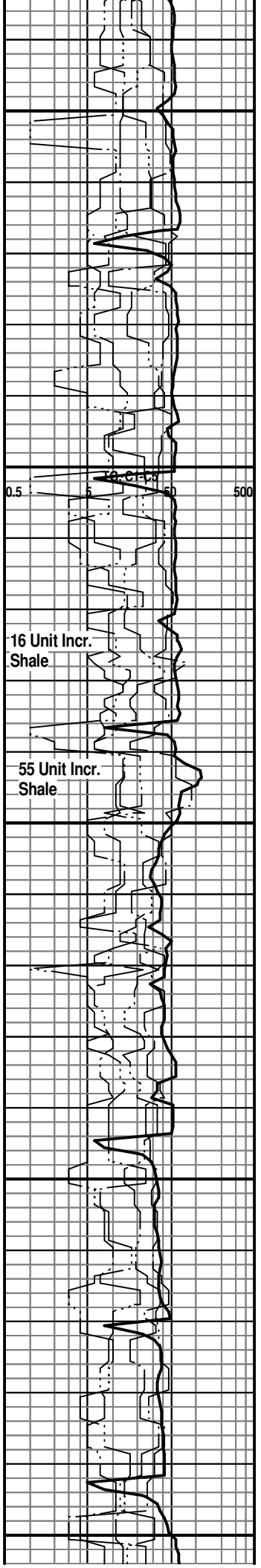
LM; med brn, foss ip, most well cem, tite

SH; lt to med gy, platy, silty to sandy

LM; lt to med brn, blocky, micritic, foss ip, hd

SH; lt to med gy, platy, silty ip, occ mica

SH; lt to med gy, platy, soft, occ silty



Wt. 9.4
LCM 0#

WOB 15K
PP 970#
SPM 60
RPM 85

A.V.= 172.00
at 60 SPM

ROP (min/ft)
Gamma (API)

DST #1
Lansing 'A'
4204' - 4220'
Corrected
CFS. at 4220'

Scale Change
ROP (min/ft)
Gamma (API)

MudCo. Mud
Check at 4220'
Vis 68 Wt. 9.4
WL 9.2 CI 4000
PH 10.0 LCM 0#

WOB 40K
PP 1000#
SPM 59
RPM 85

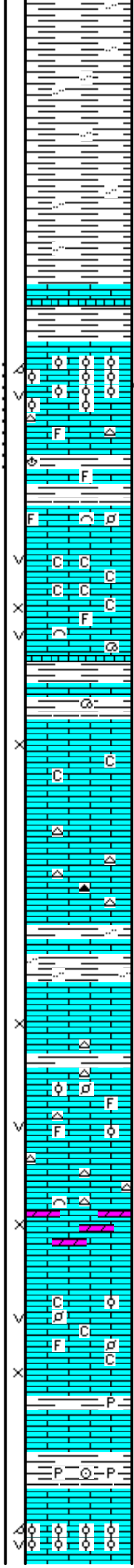
A.V.= 162.00
at 58 SPM

WOB 40K
PP 970#
SPM 58
RPM 84

Vis 60
Wt. 9.4
LCM 0#

WOB 40K
PP 950#
SPM 57
RPM 86

4200
4250
4300
4350



SH; lt to med gy, platy to flakey, occ silty

BROWN LMST. 4194(-1977)
LM: med to dk brn, dense, micritic, tite

LANSING 'A' 4202(-1985)
LM; lt brn, oolitic, med to lrg molds, gd oomoldic por, med yel fluor, fair gas odor, gas bubbles, trc lt brn oil stn, no FO., weak cut - Gas Show

LM; lt to med brn, foss ip, most dense, scat cht
DST #1: Lansing 'A' 4204' - 4220'
BUTTON BIT IN AT 4224'

LANSING 'B' 4225(-2008)
LM; off wh, wh, lt gy, fxln, much soft chalk and chalky mtx, no fluor, rare vug por, ns.

LM; lt brn, lt gy brn, foss ip, scat fair vug & interpart por, dull yel fluor, no stn, ns.

LM; tan to lt gy, f to med xln, fair interxln por, occ spar calc xtals, minor chalky mtx, no fluor, no stn or odor, ns.

LM; tan to lt brn, most dense, micritic, scat gy to dk gy cht, no vis por, ns.

SH; lt to med gy, gy grn, platy, silty pl.

LM; tan to buff, lt brn, f to med xln, fair interxln por ip, much dense - micritic, no fluor, no stn or odor, ns.

LM; tan to lt brn, buff, foss ip w/rare well cem ooids, most dense, blocky, scat gy cht, rare vug por, no fluor, ns.

LM; off wh, lt brn - tan, some sucrosic text, partly dolomitic, interbdd partly chalky lmst, fair interxln por, dull yel fluor, no vis stn, ns.

LM; tan to cream, buff, med xln w/scat foss mat, occ vug and interpart por, minor chalky mtx, dull yel min fluor, no stn, ns.

SH; med to dk gy, rare gy grn, pyr ip, occ foss

LANSING/K.C. 'H' 4363(-2146)
LM; lt brn, oolitic, brittle - breaks easily, most w/small molds, gd oomoldic w/scat vug por, lt yel min fluor, no stn or odor, no gas kick, ns.

TG. CI-05

28 Unit Incr.
SHOW

Gas readings
unreliable - change
filter/
gas line

High Mud
Level - gas kick not
real

Change ext. Filter

Gas Test at
Extractor

A.V.= 164.25
at 58 SPM

conn
Vis 62
Wt. 9.2
LCM 0#

ROP (min/ft)
Gamma (API)

DST #2
K.C. 'I' zone
4400' - 4420'

CFS. at 4420'
conn

CFS. at 4434'

DST #3
K.C. 'J' zone
4442' - 4458'

conn
CFS. at 4458'

MudCo. Mud
Check at 4458'
Vis 60 Wt. 9.2
WL 8.8 Cl 5000
PH 11.5 LCM 0#

conn

WOB 40K
PP 875#
SPM 58
RPM 82

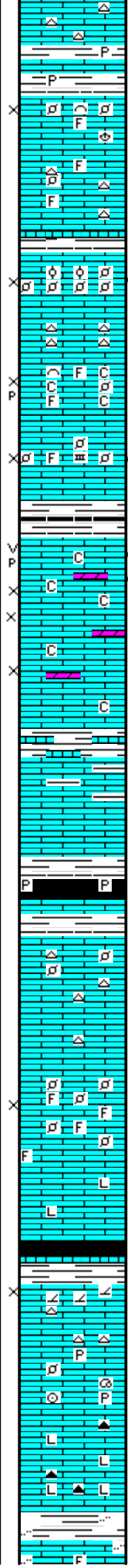
conn
A.V.= 160.00
at 58 SPM

Vis 60
Wt. 8.9
LCM 1#

conn
MudCo. Mud
Check at 4561'
Vis 62 Wt. 8.9
WL 7.2 Cl 6000
PH 10.5 LCM 1#

WOB 40K
PP 970#
SPM 59-60
RPM 85
conn

4400
4450
4500
4550



SH; med gy, platy, occ pyr

LM; tan to buff, cream, foss w/scat pellets and foss hash, trc poor interpart por, most well cem, dull yel fluor, no stn or odor, no gas kick

LM; tan to lt brn, foss ip, most well cem, scat off wh/gy cht, no vis por, no fluor, ns.

K.C. 'I' 4409(-2192)

LM; off wh, buff, finely pelletal, small ooids, gas bubbles, very slight spotted lt brn oil stn, v. faint odor, fair interpart por, med/brite yel fluor

DST #2: K.C. 'I' Zone: 4400' - 4420'

Corrected Depths to Log

LM; off wh, foss ip, scat fair interpart/p-p por, chalky ip, no fluor, poss. gas bubbles, no odor, no vis oil stn, no cut

LM; off wh, foss - finely pelletal, trc v. lt brn stn, faint odor, chalky ip, rare med yel fluor, poor to fair interpart por, occ stylolites, most barren

K.C. 'J' 4449(-2232)

LM; tan, cream, fxln w/scat gd p-p/occ lrg vug por, spotty brite yel fluor, fair odor, gd cut, spotted/even lt brn stn, chalky ip, gas bubbles, bcm lt brn f to med xln lmst w/some barren por.

DST #3: K.C. 'J' Zone: 4442' - 4458' (Corrected Depths to Log)

LM; tan to cream, buff, fxln w/fair interxln por, minor chalky mtz, partly dolomitic, no fluor, no stn or odor, ns.

SH; med gy, gy brn, lmy

LM; med gy, gy brn, hd, blocky, some argil, no vis por, ns.

STARK SHALE 4497(-2280)

SH; blk, carb, blocky, occ pyr

SWOPE 4505(-2288)

LM; lt to med brn, foss ip w/rare pellets, well cem, hd, scat brn cht, no fluor, no vis por, ns.

LM; tan to lt brn, buff, foss ip /scat pellets, foss hash, fair interpart por in some, most well cem, no fluor, no stn or odor, ns.

LM; med brn, blocky, some litho, tite

SH; blk, carb ip, platy

HERTHA 4554(-2337)

LM; tan, buff, fxln w/occ sucrosic text, partly dolomitic, lt yel min fluor, fair interxln por, no stn or odor, ns.

LM; med brn, foss, blocky, most well cem, pyr ip, scat lt yel min fluor, no stn, ns.

LM; med to dk brn, occ dk gy, micritic to litho, interbdd dk gy/smoky cht, tite

BASE KANSAS CITY 4586(-2369)

LM; med brn, foss in dense some siltv

0.5 50 500

45 Unit Incr.
SHOW

OIL/GAS IN MUD
AFTER DST #2

POSS. SHOW??
120 Unit Incr.

Recycle

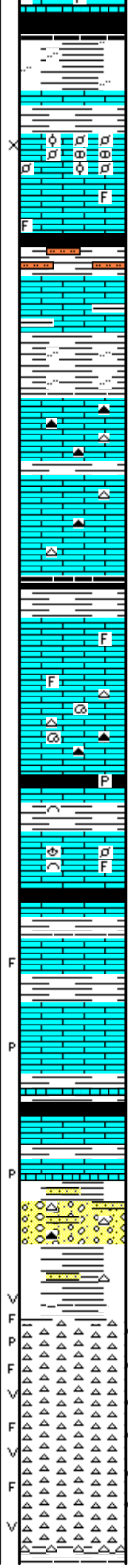
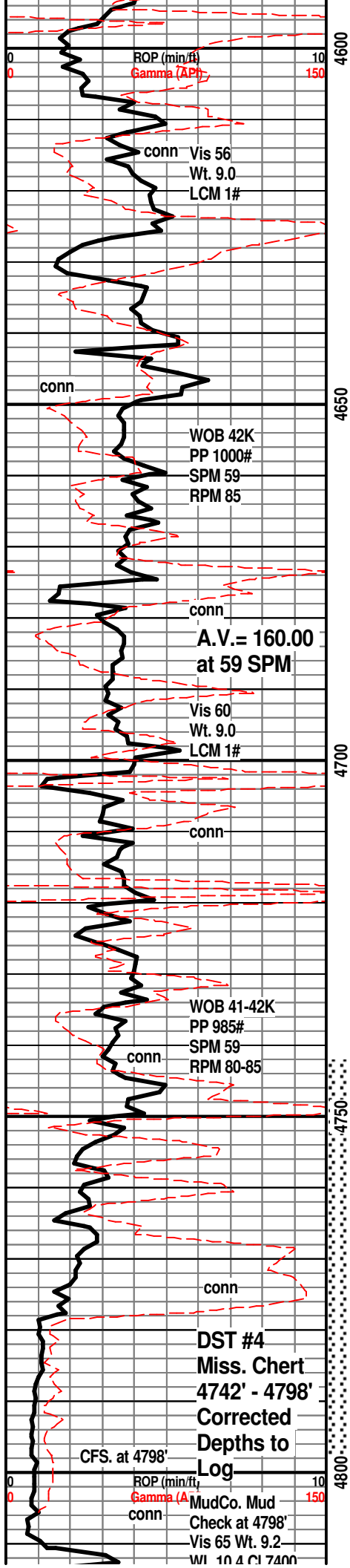
60 Unit Incr.
SHOW

GAS & OIL IN MUD
AFTER DST #3

90 Unit Incr.
Shale

OIL/GAS in Mud

20 Unit Incr.
Shale



SH; gy grn, rust red, blk, platy to flakey, silty ip.

PLEASANTON 4612(-2395)
LM; tan to lt brn, foss - pelletal, scat ooids and pellets, weakly cem with fair interpart por, interbdd brn nodular lmst, no vis por, dull yel to no fluor, ns.

SH; med gy, gy grn, trc blk, silty w/stst interbdd

MARMATON 4632(-2415)
LM; lt brn, lt gy, rare pale grn, argil ip, dense, blocky, no fluor, ns.

SH; med gy, gy grn, rare brn, silty ip.

LM; tan to cream, buff, fxln to micritic, scat amber to org cht, no vis por, no fluor, ns.

LM; tan to lt brn, buff, fxln, most dense - micritic, scat pcs w/blk tar/gils - dead oil. med yel fluor, weak cut, no live shows, no vis por

SH; blk, dk gy, platy

PAWNEE 4678(-2461)
LM; tan to lt brn, foss ip, most well cem, spotty lt to med yel fluor, no vis stn, no odor, ns.

LM; med to dk brn, most micritic, blocky, interbdd grn sh, foss ip, no vis por, interbdd amber to tan cht, ns.

SH; blk, carb ip, platy, rare pyr

LM; lt to med brn, foss ip, most well cem, blocky, no vis por, scat lt yel min fluor, no stn, ns.

CHEROKEE SHALE 4718(-2501)
SH; blk, carb ip, w/gy grn soft sh

LM; tan to lt brn, fxln, trc frags w/blk tar/gils dead oil, no odor, spotty lt/med yel fluor, weak cut, no live shows

LM; tan to buff, lt brn, fxln, most dense, few pcs w/blk dead oil in poor p-p por, dull yel fluor, no odor, no gas kick

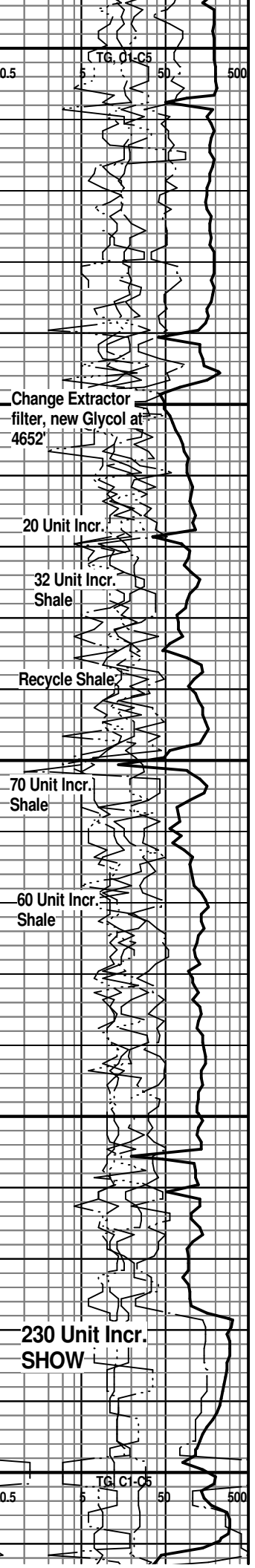
LM; tan, lt brn, most dense, interbdd dk gy/blk sh, trc blk tar/gils, no fluor, no odor, no gas kick

LM; lt brn, off wh, fxln, scat dk brn/blk stn, most dead oil, dull yel flour, occ p-p por, no odor

CONGL; varic shales, red, rust red, interbdd sandy sh/shaly ss w/gas bubbles, some varic cht w/blk tar/dead oil

MISSISSIPPI CHERT 4778(-2561)
CHT; wh, fresh and trip, frags and some lrg vug por w/live oil stn, med to occ brite yel fluor, SSFO, weathred edges w/stn, faint gas odor
CHT; wh, most fresh, fractured, spotty brite yel fluor, weath edges w/med brn stn, scat tripolite w/even lt brn oil stn and gas bubbles, SFO
CHT; wh, off wh, trip and fresh, scat gd vug por, SFO, faint odor, interbdd soft tripolite w/oil stn and gas bubbles, much brite yel fluor

DST #4: Miss. Chert 4742' - 4798'
CHT; wh, fresh, weath edges, scat med brn stn, faint to fair odor, scat med/brite yel fluor



WE 10.4 CP 740
PH10.0 LCM Trc.

CFS. at RTD

4850

00

KINDERHOOK SHALE 4811(-2594)

SLTST; lt grn, soft, mica ip, some sandy

SH; med gy, gy grn, platy, silty to sandy, interbdd vf gr
grn argil soft ss

RTD. 4832' at 10:15 PM. 3/26/14

LTD. 4828'

Halliburton ACRT(DIL), NEU/DEN w/PE,
Microlog, MIRL

NOTE: This log was shifted upward by
4' to 5' for correlation purposes with the
Halliburton Logs.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L. Loeb, LLC
P.O.Box 838
Lawrenceville Il. 62439
ATTN: Jon Christensen

29-27s-18w Kiowa Ks.
Rosenberger#2-29
Job Ticket: 51890 **DST#: 1**
Test Start: 2014.03.23 @ 01:56:55

GENERAL INFORMATION:

Formation: **Lans. A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:59:55
Time Test Ended: 08:22:10
Interval: **4208.00 ft (KB) To 4224.00 ft (KB) (TVD)**
Total Depth: 4224.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56
Reference Elevations: 2217.00 ft (KB)
2205.00 ft (CF)
KB to GR/CF: 12.00 ft

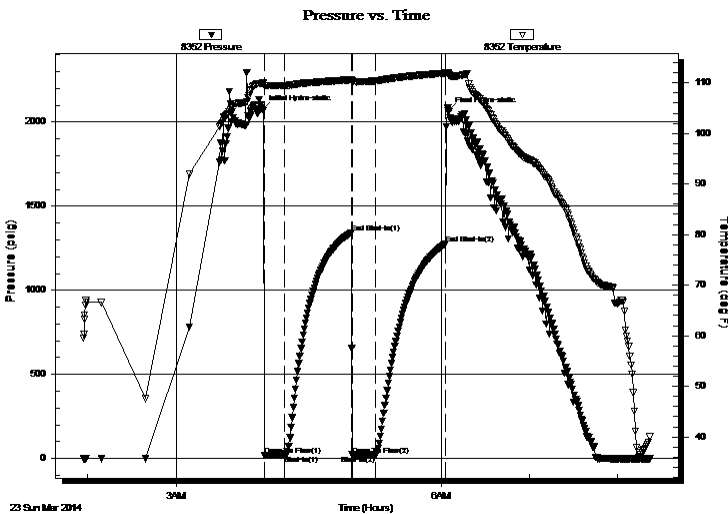
Serial #: 8352

Inside

Press @ Run Depth: 21.57 psig @ 4209.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.23 End Date: 2014.03.23 Last Calib.: 2014.03.23
Start Time: 01:57:00 End Time: 08:22:09 Time On Btm: 2014.03.23 @ 03:58:25
Time Off Btm: 2014.03.23 @ 06:04:40

TEST COMMENT: IF:Weak blow . 1/2".
IS:No blow .
FF:Weak surge. No blow .
FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.02	109.95	Initial Hydro-static
2	18.66	109.34	Open To Flow (1)
15	21.07	109.45	Shut-In(1)
61	1343.06	110.61	End Shut-In(1)
61	21.42	110.23	Open To Flow (2)
77	21.57	110.38	Shut-In(2)
125	1278.75	111.93	End Shut-In(2)
127	2064.55	111.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig.mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51890 **DST#: 1**

ATTN: Jon Christensen

Test Start: 2014.03.23 @ 01:56:55

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:	4000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

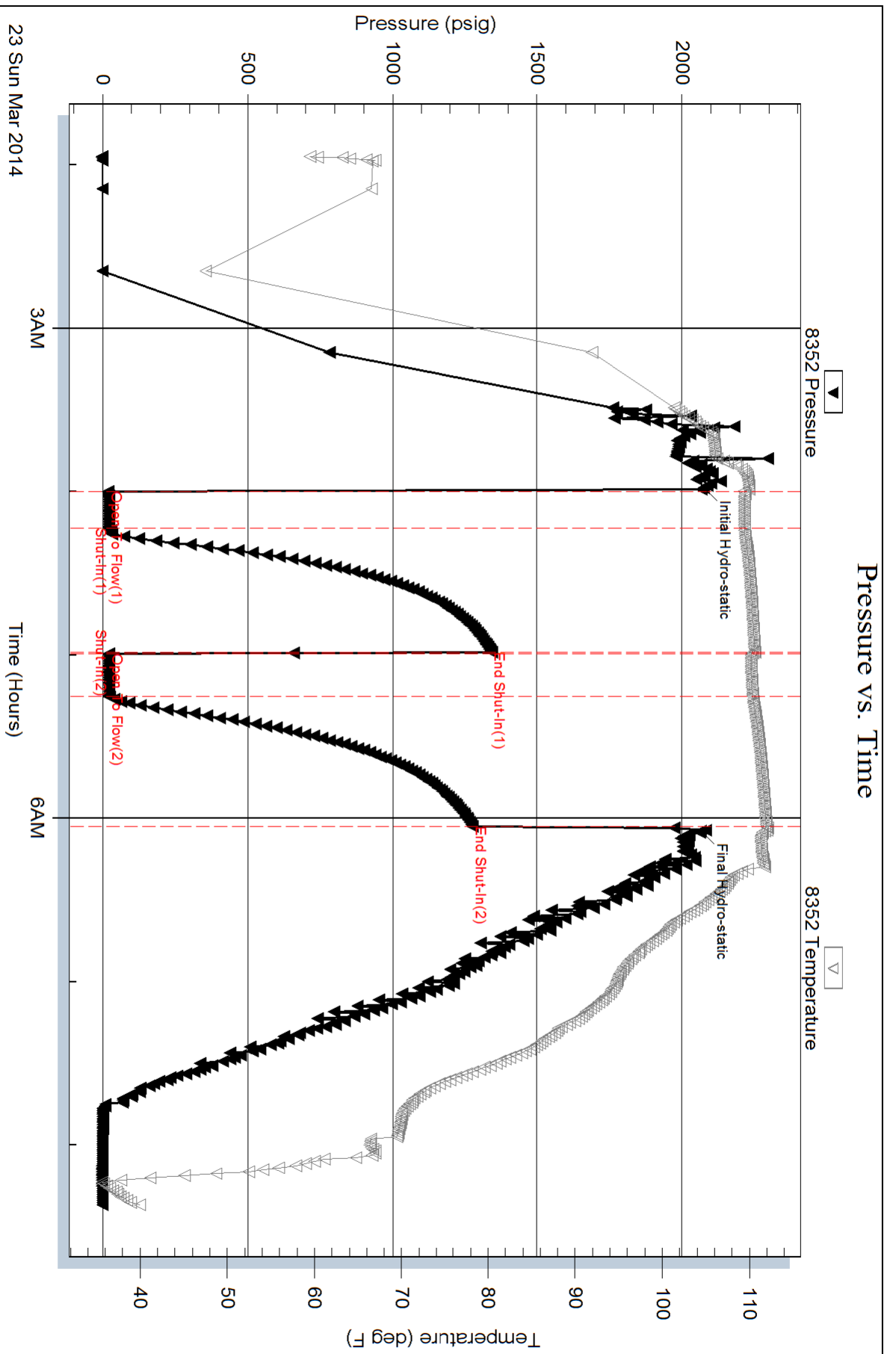
Length ft	Description	Volume bbl
5.00	Drilg.mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb, LLC
 P.O.Box 838
 Lawrenceville Il. 62439
 ATTN: Jon Christensen

29-27s-18w Kiowa Ks.
Rosenberger#2-29
 Job Ticket: 51891 **DST#: 2**
 Test Start: 2014.03.24 @ 02:04:01

GENERAL INFORMATION:

Formation: **KC. I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 05:06:01
 Tester: Gary Pevoteaux
 Time Test Ended: 10:16:16
 Unit No: 56
 Interval: **4404.00 ft (KB) To 4424.00 ft (KB) (TVD)**
 Reference Elevations: 2217.00 ft (KB)
 Total Depth: 4424.00 ft (KB) (TVD)
 2205.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 12.00 ft

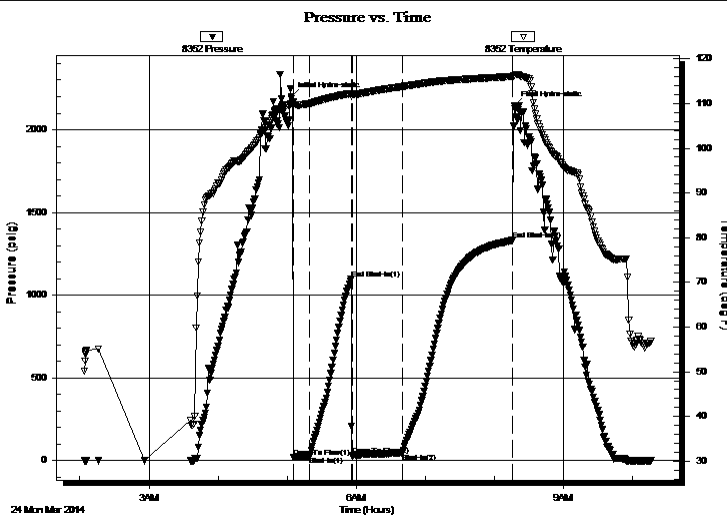
Serial #: 8352

Inside

Press @ Run Depth: 46.03 psig @ 4405.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.24 End Date: 2014.03.24 Last Calib.: 2014.03.24
 Start Time: 02:04:06 End Time: 10:16:15 Time On Btm: 2014.03.24 @ 05:03:46
 Time Off Btm: 2014.03.24 @ 08:17:46

TEST COMMENT: IF: Fair to strong blow . B.O.B. in 10 mins.
 IS: Weak blow . 1/4 - 1/2".
 FF: Strong blow . B.O.B. in 19 secs.
 FS: Weak blow . (surface)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.72	110.06	Initial Hydro-static
3	19.03	109.80	Open To Flow (1)
16	26.12	110.02	Shut-In(1)
52	1099.35	112.27	End Shut-In(1)
53	28.97	112.00	Open To Flow (2)
97	46.03	113.80	Shut-In(2)
193	1331.36	116.05	End Shut-In(2)
194	2145.75	116.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 12%g 6%o 82%m	0.30
0.00	1210 ft. of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51891 **DST#: 2**

ATTN: Jon Christensen

Test Start: 2014.03.24 @ 02:04:01

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:	4000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

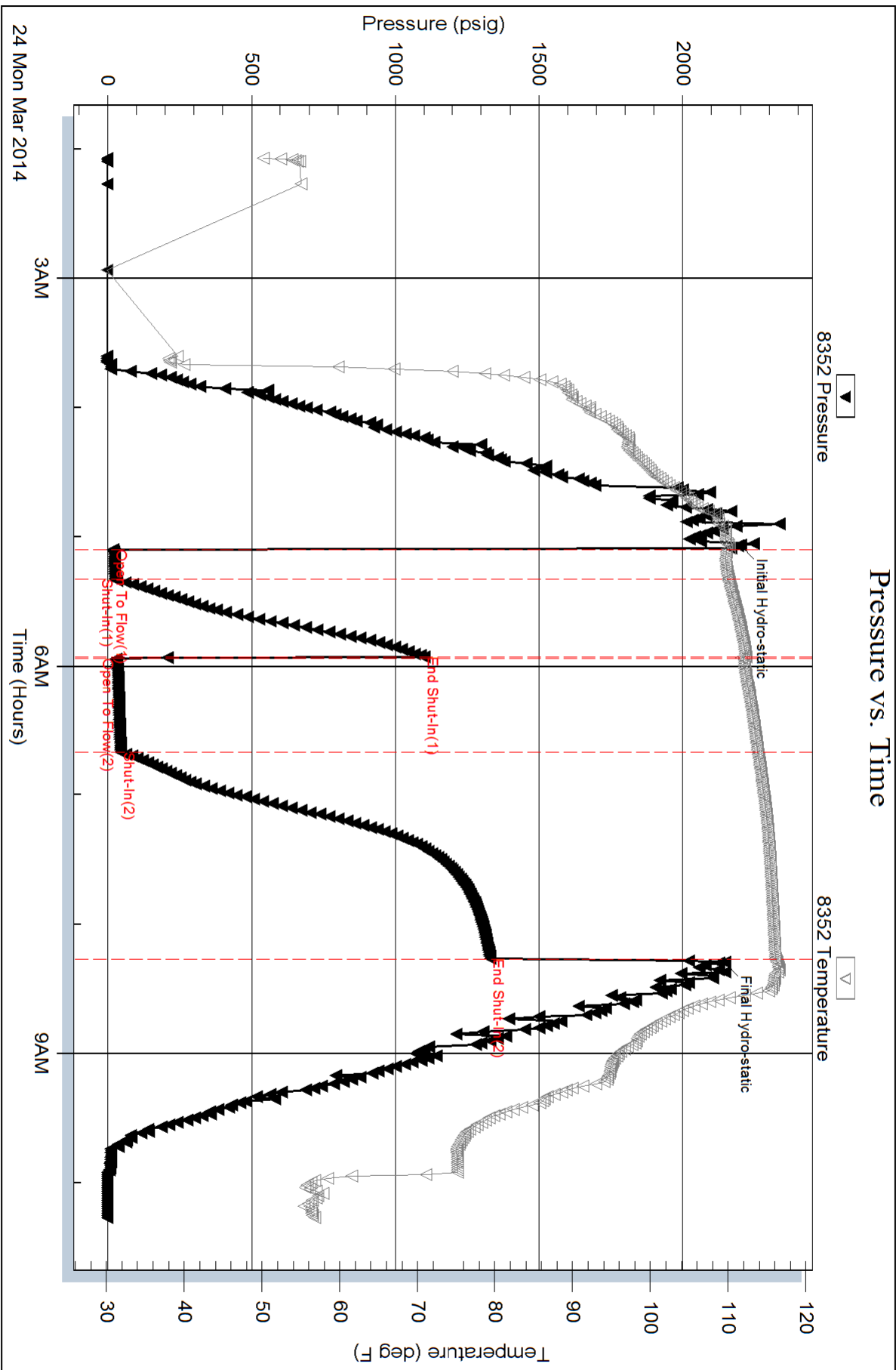
Length ft	Description	Volume bbl
62.00	GOCM 12%g 6%o 82%m	0.305
0.00	1210 ft. of GIP	0.000

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb, LLC
 P.O.Box 838
 Lawrenceville Il. 62439
 ATTN: Jon Christensen

29-27s-18w Kiowa Ks.
Rosenberger#2-29
 Job Ticket: 51892 **DST#: 3**
 Test Start: 2014.03.24 @ 19:03:18

GENERAL INFORMATION:

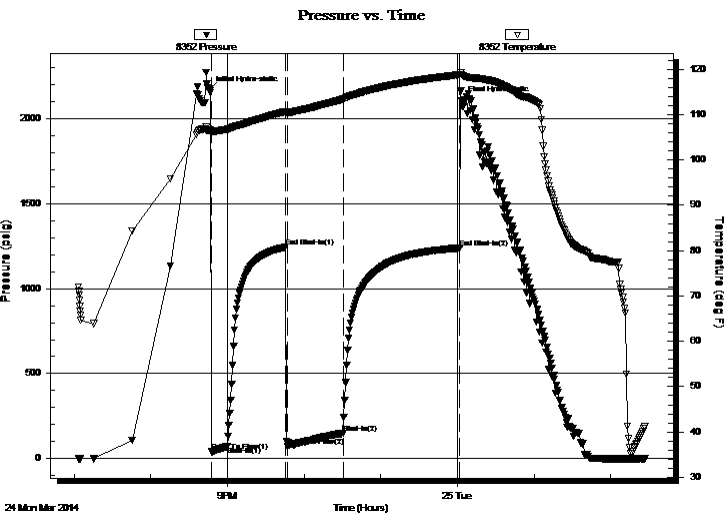
Formation: **KC. J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 20:47:33
 Tester: Gary Pevoteaux
 Time Test Ended: 02:26:33
 Unit No: 56
 Interval: **4447.00 ft (KB) To 4463.00 ft (KB) (TVD)**
 Reference Elevations: 2217.00 ft (KB)
 Total Depth: 4463.00 ft (KB) (TVD)
 2205.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 12.00 ft

Serial #: 8352

Inside

Press @ Run Depth: 148.37 psig @ 4448.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.24 End Date: 2014.03.25 Last Calib.: 2014.03.25
 Start Time: 19:03:23 End Time: 02:26:32 Time On Btm: 2014.03.24 @ 20:45:33
 Time Off Btm: 2014.03.25 @ 00:03:18

TEST COMMENT: IF: Strong blow . B.O.B. in 45 secs.
 IS: Fair blow . Increase to 6".
 FF: Strong blow . B.O.B. in 45 secs. GTS in 23 mins. (see gas flow report)
 FS: Strong blow . B.O.B.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.04	106.55	Initial Hydro-static
2	40.38	106.21	Open To Flow (1)
14	70.32	106.75	Shut-In(1)
60	1243.87	110.69	End Shut-In(1)
62	69.59	110.41	Open To Flow (2)
105	148.37	113.40	Shut-In(2)
197	1239.75	118.80	End Shut-In(2)
198	2104.57	118.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	SW /Rw .13ohms @44deg	0.52
185.00	GMCO 52%g 8%m 4%o	0.91
70.00	CGO 21%g 79%o	0.71

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.00	6.06
Last Gas Rate	0.13	5.00	7.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51892

DST#: 3

ATTN: Jon Christensen

Test Start: 2014.03.24 @ 19:03:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

111000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
105.00	SW /Rw .13ohms @44deg	0.516
185.00	GMCO 52%g 8%m 4%o	0.910
70.00	CGO 21%g 79%o	0.709

Total Length: 360.00 ft

Total Volume: 2.135 bbl

Num Fluid Samples: 0

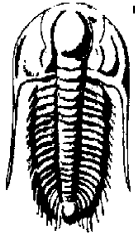
Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51892

DST#: 3

ATTN: Jon Christensen

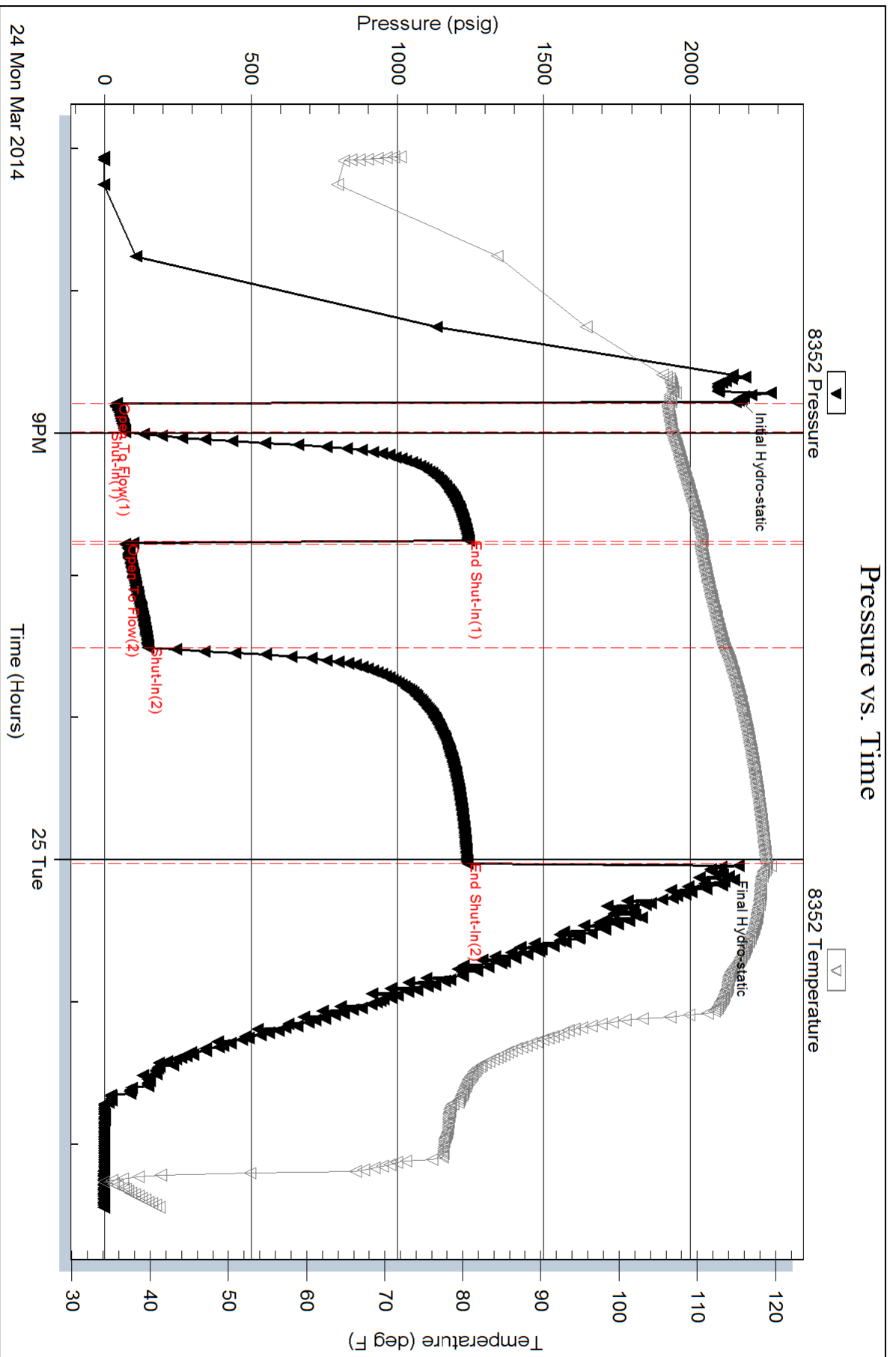
Test Start: 2014.03.24 @ 19:03:18

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	30	0.13	2.00	6.06
2	45	0.13	5.00	7.19





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51893

DST#: 4

ATTN: Jon Christensen

Test Start: 2014.03.26 @ 08:57:46

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:46:31

Time Test Ended: 17:32:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4746.00 ft (KB) To 4802.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 4802.00 ft (KB) (TVD)

2205.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8352 Inside

Press@RunDepth: 379.34 psig @ 4747.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.26

End Date: 2014.03.26

Last Calib.: 2014.03.26

Start Time: 08:57:51

End Time: 17:32:01

Time On Btm: 2014.03.26 @ 10:42:16

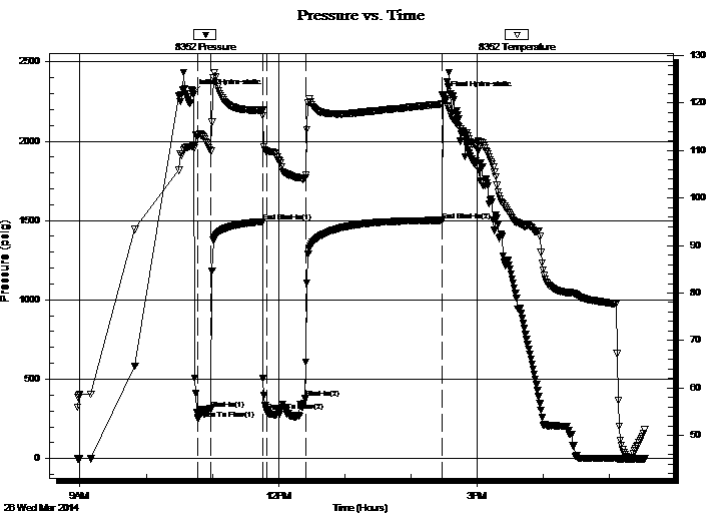
Time Off Btm: 2014.03.26 @ 14:29:46

TEST COMMENT: IF:Strong blow . GTS in 4 mins.(see gas flow report)

IS:Weak surface blow .

FF:Strong blow . See gas flow report)

FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.50	110.89	Initial Hydro-static
5	250.85	113.40	Open To Flow (1)
17	313.44	109.86	Shut-In(1)
64	1492.89	118.50	End Shut-In(1)
67	300.91	109.85	Open To Flow (2)
102	379.34	104.31	Shut-In(2)
226	1501.25	119.77	End Shut-In(2)
228	2289.68	120.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	CGO 26%g 74%o	0.59
360.00	GMCO 66%g 10%m 24%o	3.23
125.00	GOCM 25%g 15%o 60%m	1.75
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	66.00	1252.71
Last Gas Rate	0.75	64.00	1221.47
Max. Gas Rate	0.75	68.00	1283.95



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51893

DST#: 4

ATTN: Jon Christensen

Test Start: 2014.03.26 @ 08:57:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	CGO 26%g 74%o	0.590
360.00	GMCO 66%g 10%m 24%o	3.228
125.00	GOCM 25%g 15%o 60%m	1.753
0.00	GTS	0.000

Total Length: 605.00 ft

Total Volume: 5.571 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-4

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Herman L. Loeb, LLC

29-27s-18w Kiowa Ks.

P.O.Box 838
Lawrenceville Il. 62439

Rosenberger#2-29

Job Ticket: 51893

DST#: 4

ATTN: Jon Christensen

Test Start: 2014.03.26 @ 08:57:46

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)
1	10	0.75	66.00	1252.71
1	10	0.75	66.00	1252.71
1	15	0.75	68.00	1283.95
2	10	0.75	68.00	1283.95
2	20	0.75	66.00	1252.71
2	30	0.75	64.00	1221.47

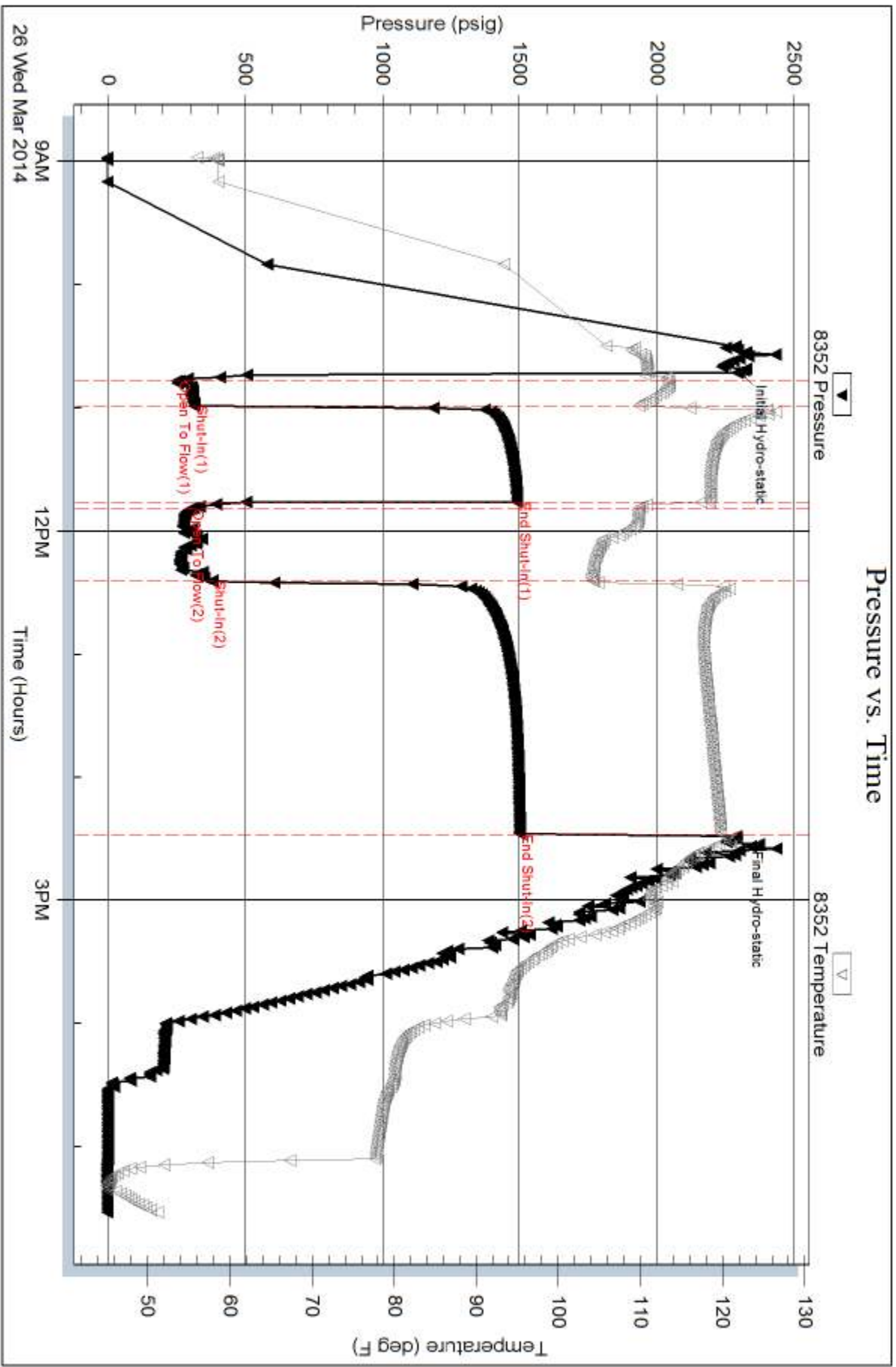
Serial #: 8352

Inside

Herman L. Loeb, LLC

Rosenberger#2-29

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 51893

Printed: 2014.03.27 @ 08:10:12



6-76
771 Rosen
6438

PAGE 1 of 1	CONT NO 1007589	INVOICE DATE 03/21/2014
INVOICE NUMBER 1718 - 91442297		

Pratt (620) 672-1201

B HERMAN L LOEB LLC
I PO Box: 838
L LAWRENCEVILLE
L IL US 62439
T
O **ATTN:** ACCOUNTS PAYABLE

J LEASE NAME Rosenberger 2-29
O LOCATION
B COUNTY Kiowa
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40703644	27463		Net - 30 days	04/20/2014

For Service Dates: 03/19/2014 to 03/19/2014

0040703644

171809816A Cement-New Well Casing/Pi 03/19/2014
Cement 8 5/8" Surface

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
A-Con Blend Common	175.00	EA	12.96	2,268.00 T
Common Cement	175.00	EA	11.52	2,016.00 T
Celloflake	88.00	EA	2.66	234.43 T
Calcium Chloride	825.00	EA	0.76	623.70 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	162.00	162.00
"8 5/8"" Guide Shoe (Red)"	1.00	EA	396.00	396.00
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	201.60	201.60
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	3.06	122.40
Heavy Equipment Mileage	80.00	MI	5.04	403.20
"Proppant & Bulk Del. Chgs., per ton mil	660.00	EA	1.58	1,045.44
Depth Charge; 501'-1000'	1.00	EA	864.00	864.00
Blending & Mixing Service Charge	350.00	BAG	1.01	352.80
Plug Container Util. Chg.	1.00	EA	180.00	180.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	126.00	126.00

PAID
48374
MAR 25 2014

SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,995.57
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	367.66
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	9,363.23
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 09816 A

DATE _____ TICKET NO. _____

DATE OF JOB 3-19-14 DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: _____								
CUSTOMER HEIMAN L LOEB LLC		LEASE Rosenberger WELL NO. 222								
ADDRESS _____		COUNTY Woods STATE KS								
CITY _____ STATE _____		SERVICE CREW MATTAI, MAIGNON, HANSON								
AUTHORIZED BY _____		JOB TYPE: Can Survey								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
37586	.5						3-19-14			6:30
						ARRIVED AT JOB				10:20
27463	.5					START OPERATION				11:05
						FINISH OPERATION				12:05
19860/21010	.5					RELEASED				12:45
						MILES FROM STATION TO WELL				40

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: *X Alan Lofth*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-con brand	SK	175		3,150.00
CP 100C	COMMON CMT	SK	175		2,800.00
CC 102	Colloids	LB	88		325.60
CC 109	CALCIUM CHLORIDE	LB	825		866.25
CF 105	TOP RUBBER PLY 8 5/8	EA	1		225.00
CF 203	8 5/8 guide shoe	EA	1		550.00
CF 1453	FLAPPY TYPE INJECTION VALVE 8 5/8	EA	1		280.00
E 100	P.M. miles	MI	40		170.00
E 101	Heavy eq miles	ME	80		560.00
E 113	Prob + Bulk Del.	TM	660		1,452.00
CE 201	Delta cartridge 501-1000'	4H'	1		1,200.00
CO 240	Blend + mix cartridge	SK	350		490.00
CE 504	Plus cart.	JOB	1		250.00
5003	Service Supervisor	EA	1		175.00

SUB TOTAL **DLS 8995.57**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE **Mike Mattai** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *X Alan Lofth*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>Herman L Looch</i>	Lease No.	Date <i>3-19-14</i>
Lease <i>Rosenberger</i>	Well # <i>2-29</i>	
Field Order # <i>1816</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>
		Depth <i>636.23</i>
Type Job	Formation <i>RTD 641</i>	County <i>Kiowa</i>
		State <i>KS</i>
		Legal Description <i>29-27-18</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid <i>EMT 175 SKS</i>	RATE <i>A-CO1 37</i>	PRESS <i>CC 1/4</i>	ISIP	
Depth <i>626.23</i>	Depth	From	To	Pre Pad <i>175 SKS</i>	Max <i>COMMON</i>	<i>290 CC</i>	5 Min.	
Volume <i>40.5</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1,000</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>PC</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>544.34</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>George</i>	Station Manager <i>Kevin Gaudley</i>	Treater <i>MIKE MATTAI</i>
Service Units <i>37586</i>	<i>27463</i>	<i>19860 21010</i>
Driver Names <i>MATTAI</i>	<i>MAINEZ</i>	<i>HANSON</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:40</i>					<i>ON LOCATION / SARTAY MEETING</i>
<i>10:20</i>					<i>Run 8 5/8 CASING</i>
<i>11:05</i>					<i>CSNG ON BOTTOM</i>
<i>11:15</i>					<i>Hook up to CSNG / Break circ w. Rig</i>
<i>11:25</i>	<i>200</i>		<i>3</i>	<i>5</i>	<i>PUMP 3 BBL H2O</i>
<i>11:27</i>	<i>300</i>		<i>77</i>	<i>6</i>	<i>Mix 175 SKS ACO1</i>
<i>11:40</i>	<i>300</i>		<i>37</i>	<i>5.5</i>	<i>Mix 175 SKS COMMON CR</i>
<i>11:52</i>	<i>-</i>		<i>-</i>	<i>-</i>	<i>release plug</i>
<i>11:54</i>	<i>250</i>		<i>-</i>	<i>5</i>	<i>SMER displacement</i>
<i>12:05</i>	<i>700</i>		<i>37.8</i>	<i>-</i>	<i>plug down, released + hold</i>
					<i>10 bbls extra w/ PIT</i>
					<i>JOB COMPLETED</i>
					<i>Thank You!</i>
					<i>MIKE MATTAI</i>



2076
711 Rosen
6438

PAGE 1 of 1	CTCT NO 1007589	INVOICE DATE 03/31/2014
INVOICE NUMBER 1718 - 91451339		

Pratt (620) 672-1201
 B HERMAN L LOEB LLC
 I PO Box: 838
 L LAWRENCEVILLE
 T IL US 62439
 O **ATTN:** ACCOUNTS PAYABLE

J LEASE NAME Rosenberg 2-29
O LOCATION
B COUNTY Kiowa
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40707319	27463		Net - 30 days	04/30/2014

For Service Dates: 03/28/2014 to 03/28/2014

0040707319

171809824A Cement-New Well Casing/Pi 03/28/2014
 Cement 5 1/2" Longstring

PAID
APR 10 2014
SCANNED

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
50/50 POZ	270.00	EA	8.24	2,224.18 T
Celloflake	68.00	EA	2.77	188.42 T
Gypsum	1,135.00	EA	0.56	637.49 T
FLA-322	114.00	EA	5.62	640.30 T
Mud Flush	1,000.00	EA	1.12	1,123.33 T
Gilsonite	1,620.00	EA	0.50	812.84 T
KCL Potassium Chloride	612.00	EA	1.12	687.48 T
Claymax KCL Substitute	5.00	EA	26.21	131.06 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	299.56	299.56
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	269.60	269.60
"Turbolizer, 5 1/2" (Blue)"	14.00	EA	82.38	1,153.29
"5 1/2" Basket (Blue)"	3.00	EA	217.18	651.53
"Cement Scratchers Cable Type, 5 1/2" "	6.00	EA	56.17	337.00
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.18	111.40
Heavy Equipment Mileage	70.00	MI	5.24	366.96
"Proppant & Bulk Del. Chgs., per ton mil	397.00	EA	1.65	654.08
Depth Charge; 4001'-5000'	1.00	EA	1,887.20	1,887.20
Blending & Mixing Service Charge	270.00	BAG	1.05	283.08
Plug Container Util. Chg.	1.00	EA	187.22	187.22
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.06	131.06

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 TAX INVOICE TOTAL	12,777.08 460.82 13,237.90
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 09824 A

DATE _____ TICKET NO. _____

DATE OF JOB: 3-28-14	DISTRICT: Pratt	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: Herman L L Job LLC		LEASE: Rosenbergs		WELL NO. 2-29					
ADDRESS:		COUNTY: Kiowa		STATE: KS					
CITY:		STATE:		SERVICE CREW: MATTAL, KUCERA, GIBSON					
AUTHORIZED BY:		JOB TYPE: CWL Long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37586	1						3-27-14	PM	7:00
						ARRIVED AT JOB		PM	9:15
27463	1					START OPERATION	3-28-14	PM	4:32
						FINISH OPERATION		PM	5:30
19960/21050	1					RELEASED		PM	6:15
						MILES FROM STATION TO WELL			35

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SIGNED: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 POZ	54	220		2420 00
CP 104	50/50 POZ	54	50		550 00
CC 102	Cellulose	15	68		251 60
CC 113	SYPSON	15	1135		851 25
CC 129	FIN-322	15	114		855 00
CC 201	GILSONITE	10	1620		1,085 40
CC 700	KCL POTASSIUM CHLORIDE	10	612		918 00
CC 704	CLAYMAX	341	5		175 00
CC 151	MUDFLUSH	341	1,000		1,500 00
CF 607	LTC down pipe + Baffle 5 1/2	EA	1		400 00
CF 1251	Arcfill float shoe 5 1/2	EA	1		360 00
CF 1901	BASKET 5 1/2	EA	3		870 00
CF 1651	Turbulizer 5 1/2	EA	14		1,540 00
CF 2001	CMR scraper CB12 TYPE 5 1/2	EA	6		450 00

SUB TOTAL *K9*

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: <i>Mike Mattal</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer	Herman L Lueb III	Lease No.		Date	3-28-14						
Lease	Rosalberger	Well #	2-29								
Field Order #	9824	Station	Pratt	Casing	5 1/2	Depth	4824	County	kiowa	State	KS
Type Job	COW Long string			Formation		Legal Description	29-27-18				

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5 1/2				Pre Pad		Max		5 Min.
Depth 4824	Depth	From	To	Pad		Min		10 Min.
Volume 114.9	Volume	From	To	Frac		Avg		15 Min.
Max Press 1500	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection PE	Annulus Vol.	From	To	Flush 114.6		Gas Volume		Total Load
Plug Depth 4815	Packer Depth	From	To					

Customer Representative	Michael Pully	Station Manager	Kevin Goldley	Treater	MIKE MATRAJ
Service Units	37580	27463	19960	21010	
Driver Names	MATRAJ	Kucmin	GIBSONS		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:45 AM					ON LOCATION, SATELLITE MEETING
12:30 PM					Run 5 1/2 casing 15.5# Basket on # 6, 12, 27 Turbidizers on BTM ST 1, top of 1, 2, 4, 6, 8, 10, 12, 16, 20, 26, 30, 31
1:30					Circulate 60 STS in, 30 minutes
3:15					Casing on bottom
3:21					Hook up to casing/Break circ w. Rig
4:32	400		5	5	Pump 5 Bbl H2O
4:37	400		24	5	Pump 24 Bbl mat flush
4:38	400		5	5	Pump 5 Bbl H2O
4:39	350		53	5	Mix 220 SWS 50/50 POZ
4:51	-		6	3	WASH Pump + Line, release plug
4:54	150		-	6	START DISP.
5:05	300		73	5.5	LIFT PRESSURE
5:10	400		80	5	STOP RECIPROCATING
5:15	800		105	4	SLOW RATE
5:18	1100, 1400		114.5	-	Plug down, PSIP 1400, release + hold
					circ. thru JOB
5:25	-		7.5	-	Plug RT + mouse holes
					JOB complete Thank Kvs MIKE MATRAJ