



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1303260
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: _____

1303260

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Kroutwurst #21
Location: 860' FSL & 955' FEL, Sec. 34-T16S-R11W, Barton County, KS.
Licence Number: 15-009-26138-00-00 Region: Kraft-Prusa Field
Spud Date: 3/7/2016 Drilling Completed: 3/13/16
Surface Coordinates: 860' FSL & 955' FEL, Sec. 34-T16S-R11W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 1941' K.B. Elevation (ft): 1952'
Logged Interval (ft): 2600' To: 3410' Total Depth (ft): 3470'
Formation: Arbuckle at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 2513'; Chemical Gel 2513' to 3470'
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(Kansas City 'I' zone) 3270' - 3294'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak Blow built to 1.75", FFP Weak Blow built to 3.25", no Blowback on SI's; REC: 90' Gas in Pipe, 30' OCM(5%O, 95%M), 60' OCMW(5%O, 40%M, 55%W), CI 75,000, Mud 4200; IFP 20-56#, ISIP 758#, FFP 44-62#, FSIP 720#, IHP 1562#, FHP 1545#, BHT 109 Deg. F.

DST #2(Arbuckle) 3377' - 3409'(Corrected Depths to Log) Test Times 15"-45"-15"-45" IFP Strong Blow BOB/3 Min., FFP Strong Blow BOB/5 Min, Weak Surface Blowback on FSI; REC: 2' Clean Oil, 92' OCWM(10%O, 65%M, 25%W), 124' OCWM(10%O, 50%M, 40%W), 124' OCMW(5%O, 10%M, 85%W), 310' SW, CI 24,000, Mud 4200; IFP 86-220#, ISIP 1098#, FFP 226-312#, FSIP 1094#, IHP 1642#, FHP 1622#, BHT 114 Deg. F.

Comments

3/7/16 MIRU Sterling Drilling Co. Rig #4, Spud at 5:30 PM; 3/8/16 Drilling at 580'; 3/9/16 Drilling at 950'; 3/10/16 Drilling at 2750'; 3/11/16 Drilling at 3230'; 3/12/16 TD. 3410' -Short Trip for DST #2; 3/13/16 DDTD. 3470' - LDDP for setting 5 1/2" Production Casing.

Set New 8 5/8"(23#) Surface Casing at 786' with 345 sacks of cement(Basic Energy Services). PD. at 4:15 PM. on 3/8/16. Cement did circulate to cellar.

Set new 5 1/2"(15.5#) Production Casing at 3466' with 120 sacks of "Loeb Blend" cement(Basic Energy Services). PD. at 1:00 PM. on 3/13/16.

Surveys: 0.50 Deg. at 790'(Surface Casing); 0.75 Deg. at 2895'(Bit Trip); 0.75 Deg. at 3296'(DST #1); 1.0 Deg. at 3470'(DDTD).

Pipe Strap at 2895'(Bit Trip): Strap 0.72' Short to the Board, no correction made to the Board.


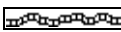
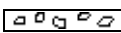
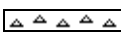
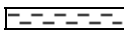







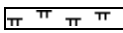
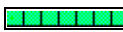
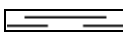
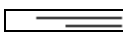
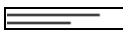



NOTE: The well was drilled deeper after Logs to DDTD. 3470'. No drilling log or samples were saved of the interval from 3410' to 3470'.

After review of the Cased Hole Solutions logs, DST data and Structural position, the operator elected to set new 5 1/2" Production Casing for completion in the Arbuckle. The Kansas City 'I' zone should be perforated and tested prior to abandonment of the well.








































































LOG TOPS: Anhydrite 767(+1185), Base Anhydrite 792(+1160), Topeka 2709(-757), Queen Hill Shale 2918(-966), Heebner Shale 3004(-1052), Toronto 3023(-1071), Brown Lmst. 3105(-1153), Lansing 'A' 3119(-1167), Muncie Creek Shale 3255(-1303), Kansas City 'I' 3278(-1326), Base Kansas City 3382(-1430), Arbuckle 3397(-1445).

NOTE: This log was shifted upward by 1' to 3' for correlation purposes with the Cased Hole Solutions 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  Brecfrag  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 STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

- POROSITY**
- E Earthy
 - F Fenest
 - X Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

V Vuggy

- SORTING**
- W Well
 - M Moderate
 - P Poor

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

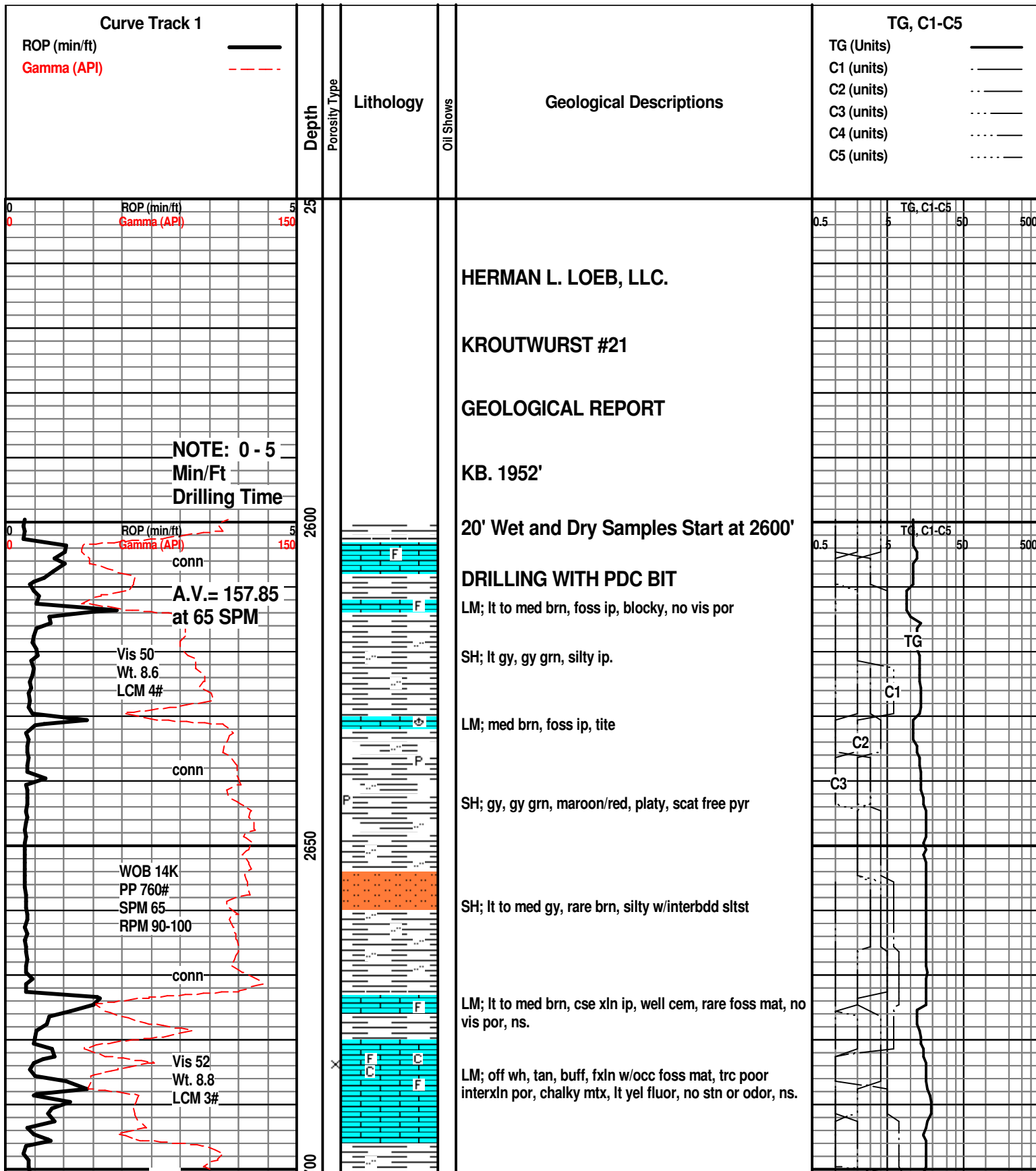
OIL SHOW

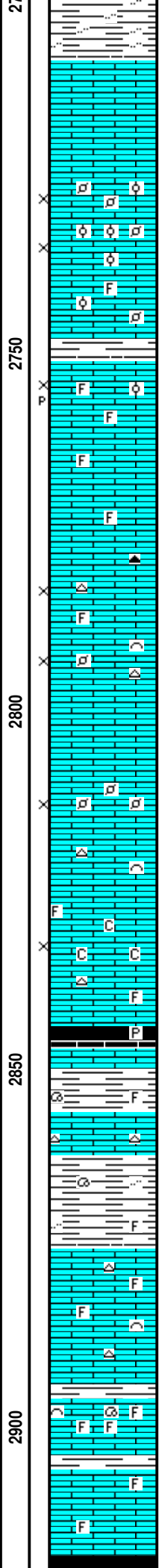
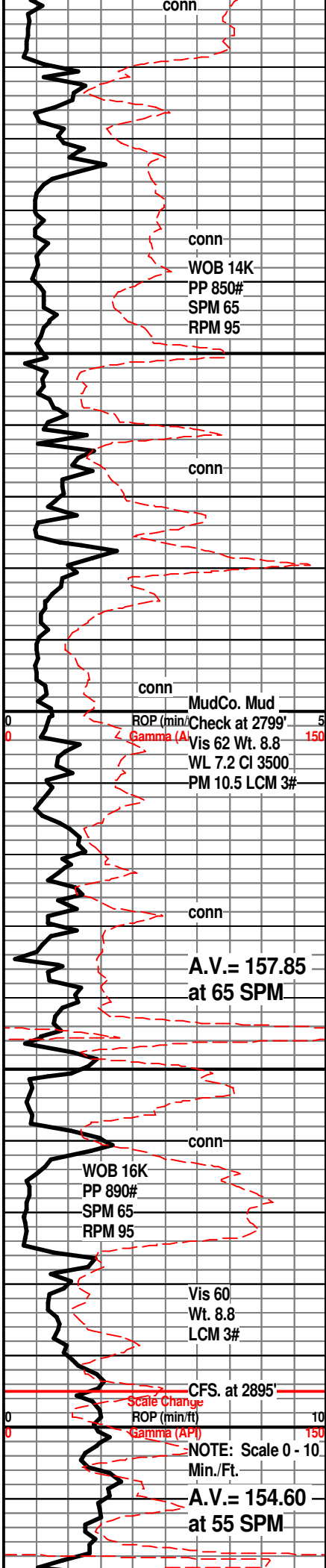
- Even

- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- EVENT**
- Rft
 - Sidewall





SH; lt to med gy, platy, silty

TOPEKA 2709(-757)

LM; tan to lt brn, fxln to micritic, blocky, no vis por, ns.

LM; tan to lt brn, buff, foss - finely pelletal/partly oolitic, fair to gd interpart por, v. dull yel to no fluor, no stn or odor, no gas kick

LM; tan to off wh, buff, fxln w/scat foss mat, fair interxln/interpart w/occ p-p por, lt yel fluor, no stn or odor, ns.

LM; tan to lt gy, fxln w/scat foss mat, fair interxln por, interbdd gy occ foss cht, dull to lt yel min fluor, no stn or odor, ns.

LM; tan to lt brn, buff, finely pelletal ip, interbdd dense micrite, poor interpart por, no fluor, ns.

LM; tan to cream, off wh, f to med xln, scat gd interxln por, minor soft chalky mtx. occ foss mat, dull yel min fluor, no stn or odor, ns.

SH; blk, thinly bdd, rare pyr

SH; med gy, foss ip, platy

LM; med brn, hd, scat tan foss cht, tite

SH; med gy, gy grn, platy, foss ip, rarely silty

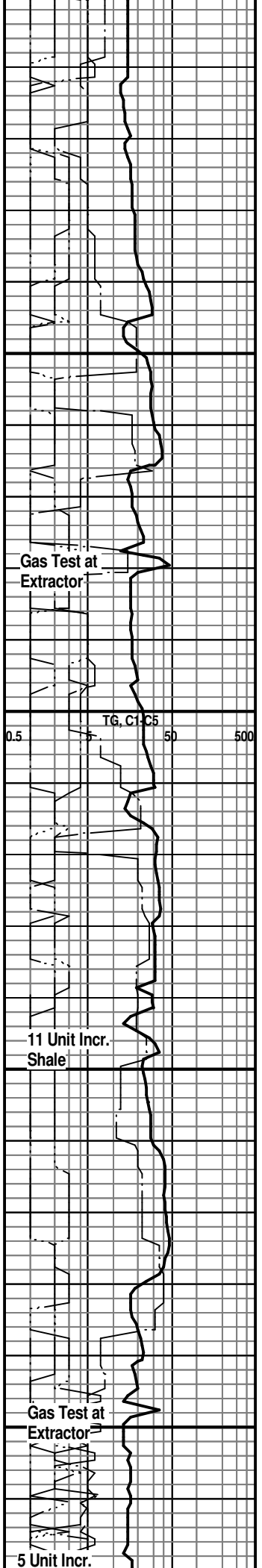
LM; tan to lt brn, fxln to micritic, some dense, rare well cem foss mat, dull yel fluor, trc tan/gy cht, no stn or odor, ns.

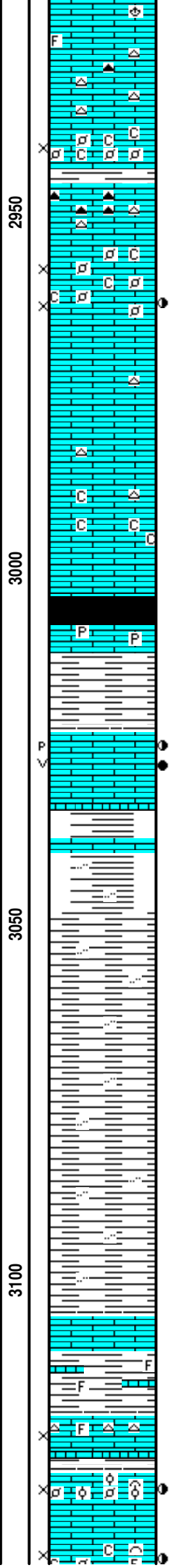
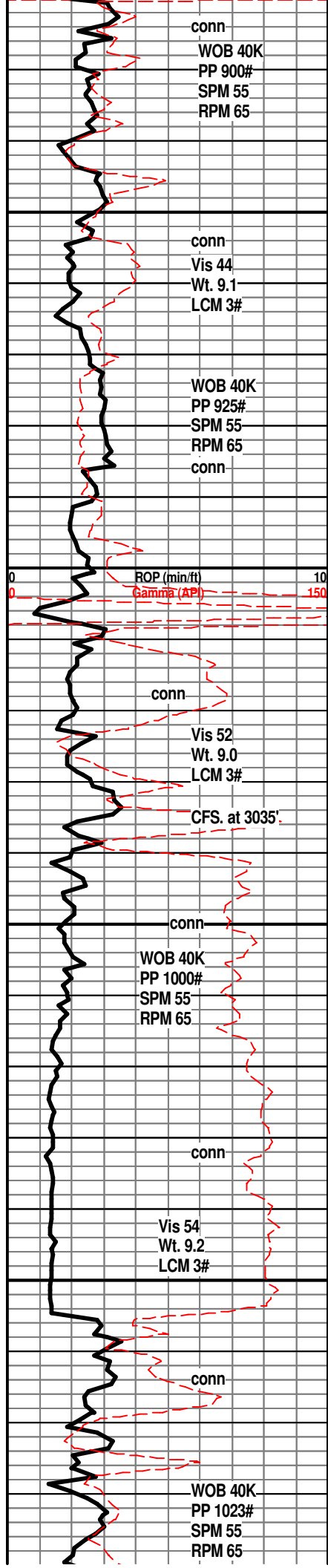
BIT TRIP AT 2895'
TRIP IN HOLE WITH BUTTON BIT

LM; lt brn gy brn, scat foss(fusulinids) mat, most well cem, no vis por, no fluor, ns.

LM; tan to buff, cream, most dense - blocky, rare well cem foss, no vis por, no fluor, ns.

QUEEN HILL SHALE 2918(-966)





SH; blk, carb ip, platy, no vis gas bubb.

LM; tan to cream, off wh, hd, micritic, interbdd wh, gy to dk gy cht, no vis por, ns.

LM; tan to cream, foss - finely pelletal, gd interpart por, occ chalky mtx, lt yel fluor, ns.

LM; lt to med brn, hd, abnt brn, dk gy/blk cht, no vis por, ns.

LM; off wh, tan - cream, finely pelletal to gran, fair interpart por, minor chalky mtx, few pcs w/dk brn spotted oil stn, faint odor, no live shows, spotty dull to lt yel fluor, no gas kick

LM; tan to lt brn, rare med brn, most dense, rare lt to med gy cht, no vis por, no fluor, ns.

LM; tan to off wh, fxln, chalky - soft ip, interbdd cse xln lmst, no fluor, no stn or odor, ns.

HEEBNER SHALE 3004(-1052)
 SH; blk, carb ip, platy, trc gas
 LM; med brn, v. hd, micritic, pyr ip.

SH; lt gy grn, pale grn, sticky ip, some gumbo

TORONTO 3023(-1071)
 LM; off wh, wh, foss to cse xln, fair p-p and scat vug por, lt golden yel fluor, SSFO, fair to faint odor, instant streaming cut, trc gas bubbles, few pcs bleeding oil droplets and rainbow

DOUGLAS SHALE 3035(-1083)
 SH; rust red, red/brn, sticky ip, platy

SH; red/brn, gy, silty ip, firm

SH; lt gy, silty w/interbdd sltst.

SH; lt to med gy, platy, silty ip.

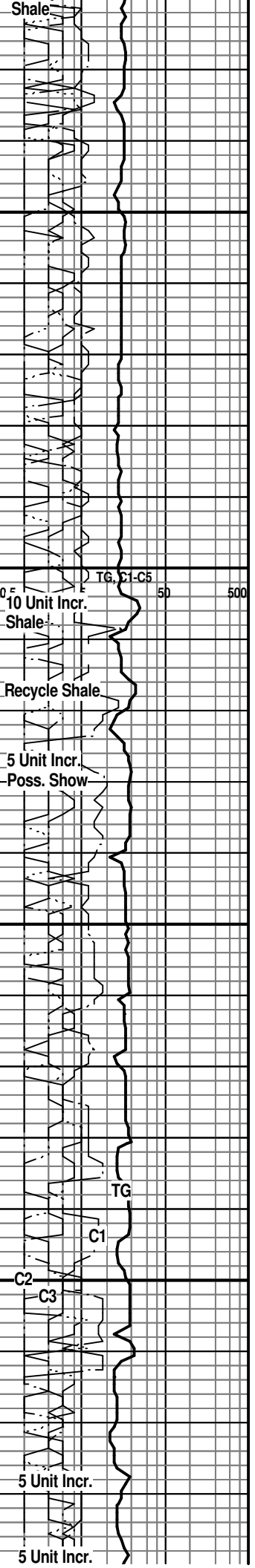
BROWN LMST. 3105(-1153)
 LM; med brn, hd, some cse xln, tite

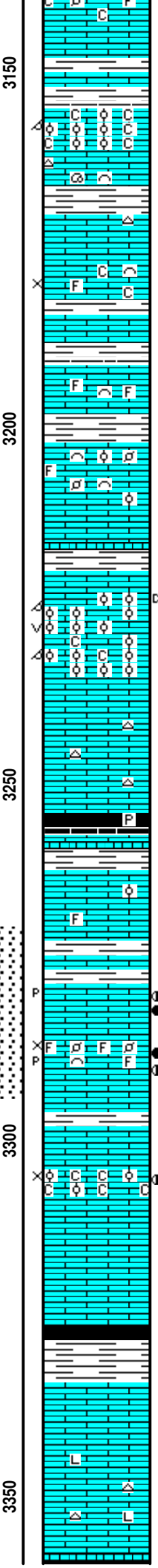
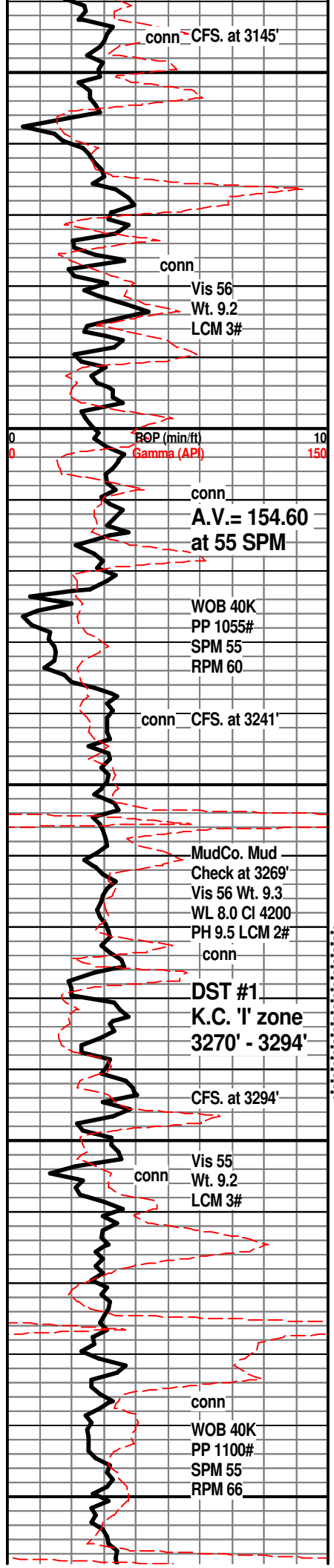
SH; med gy, foss ip, firm, some lmy

LANSING 'A' 3119(-1167)
 LM; lt gy, lt brn, some rose red, dense, occ tan and gy cht, no fluor, no stn or odor, ns.

LM; tan to off wh, finely pelletal/oolitic, fair interpart por, rare pcs w/spotted lt brn oil stn, no odor, trc FO, brite yel fluor, some barren por.

LM; off wh, wh, med xln w/occ foss mat, chalky mtx, trc





dk brn stn, no odor, lt yel flour, most barren

SH; grn, gy grn, platy

LM; off wh, tan, foss - oolitic, poor to fair oomoldic por, chalky mtx, no fluor, no stn or odor, no gas kick

LM; tan to lt brn, well cem foss mat, occ cherty, tite

LM; tan to buff, off wh, foss to med xln, fair interxln por, minor chalky mtx, no fluor, ns.

LM; lt gy brn, lt brn, most dense, some hd micrite, occ well cem foss mat, no fluor, no stn or odor, ns.

LM; lt to med brn, v. foss, ooids w/foss hash, all well cem, spotted lt yel min fluor, no stn, no gas kick, ns.

LANSING 'G' 3220(-1268)

LM; lt brn, oolitic, well dev. oomoldic w/scat vug por, v. faint to no odor, few pcs w/dk brn oil stn at top, most barren, lt to med yel min fluor, no live shows, bcm chalky

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

SH; blk, platy, trc pyr

KANSAS CITY 'H' 3262(-1310)

LM; lt gy, lt gy brn, rarely foss, most dense - micritic, blocky, no vis por, spotty lt yel flour, no stn or odor, ns.

KANSAS CITY 'I' 3278(-1326)

LM; lt brn, fxl, scat fair p-p por, lt brn spotted to even oil stn, brite yel fluor, SSFO, few gas bubbles, gd cut

LM; tan to cream, foss, lrg foss frags, fair interpart w/p-p por, live gassy oil, most w/even lt brn stn, fair odor, brite yel fluor, gd cut

DST #1: K.C. 'I' Zone 3270' - 3294'

Corrected Depths to Log

LM; wh, off wh, foss - partly oolitic, very chalky w/much pure chalk, poor to fair interpart por, few pcs w/med brn spotted oil stn, scat brite yel fluor, faint odor, most barren

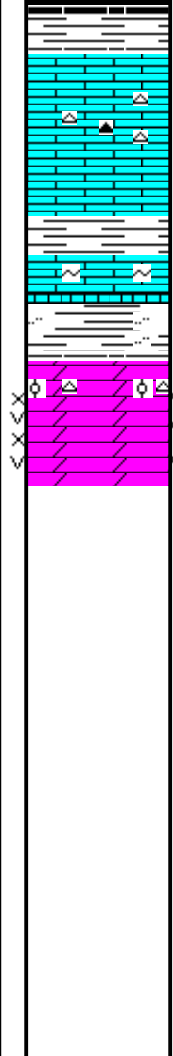
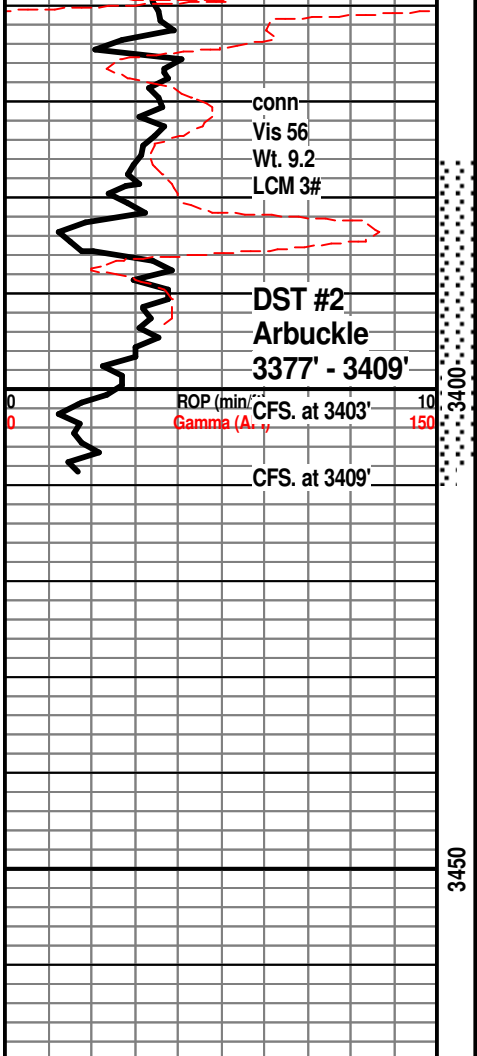
LM; tan to lt brn, some gy brn, most dense, micritic, blocky, tite

SH; med gy, occ gy grn, blk, firm

LM; med gy, gy brn, most micritic, blocky, no vis por, no fluor, ns.

LM; med brn, hd, micritic, some litho, tite, rare lt brn to tan cht





SH; blk, v. dk gy, platy

LM; tan to off wh, buff, fxl n, most well cem, hd, no vis por, no fluor, occ tan/pale org cht, no stn or odor, ns.

LM; med brn, hd, blocky, micritic, tite

BASE KANSAS CITY 3382(-1430)

LM; lt to med brn, hd, some grn clay incl(glau), no vis por, tite, fair odor

SH; grn, sea grn, silty ip

ARBUCKLE 3397(-1445)

DOL; lt gy, tan, sucrosic to med rhombic, tite cap, gd/strong odor, SSFO, occ fair interxln por

DOL; tan/off wh, med rhombic, fair vug por, SFO, gd to strong odor, brite yel fluor, most w/even lt/med brn oil stn, exc. cut

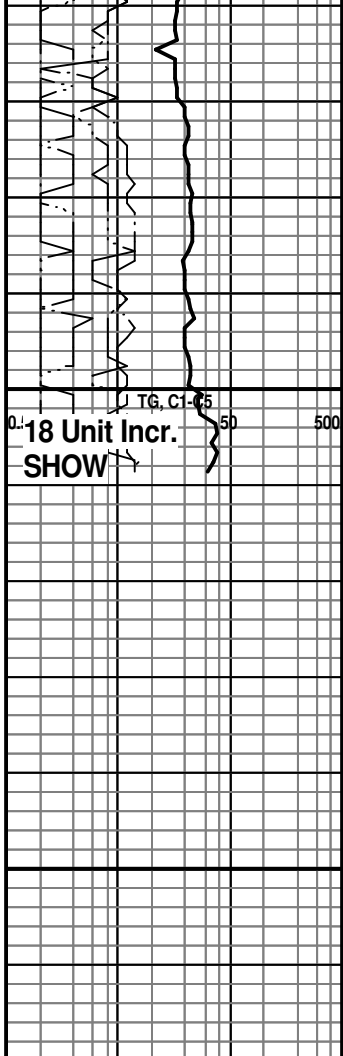
DST #2: Arbuckle 3377' - 3409'
Corrected Depths to Log

RTD. 3410' at 6:06 AM. 3/12/16, DDTD. of 3470' on 3/13/16 after Logs.

LTD. 3402'

Cased Hole Solutions DIL, NEU/DEN with PE, Microlog

NOTE: This log was shifted upward by 1' to 3' for correlation purposes with the Cased Hole Solutions Logs.





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb, Inc
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: George Payne, Jon Ch

34-16s-11w Barton
Kroutwurst #21
 Job Ticket: 64921 **DST#: 1**
 Test Start: 2016.03.11 @ 15:35:22

GENERAL INFORMATION:

Formation: **LKC "I"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 17:24:02 Tester: Ray Schwager
 Time Test Ended: 21:24:16 Unit No: 70
 Interval: **3272.00 ft (KB) To 3296.00 ft (KB) (TVD)** Reference Elevations: 1952.00 ft (KB)
 Total Depth: 3296.00 ft (KB) (TVD) 1941.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

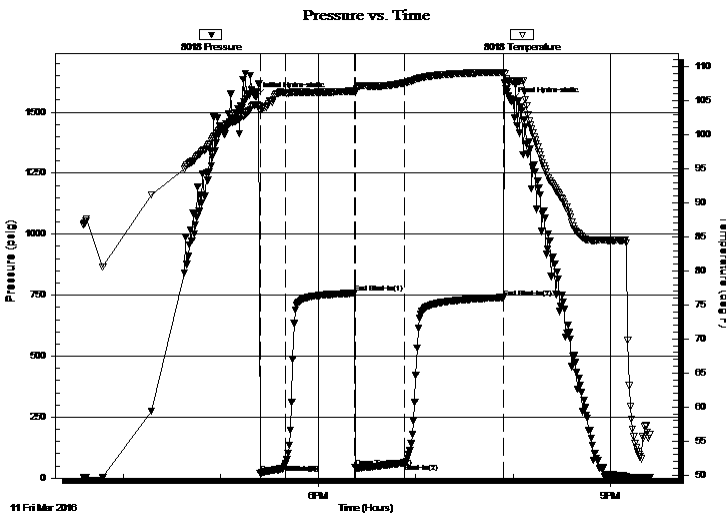
Serial #: 8018

Inside

Press @ Run Depth: 62.66 psig @ 3273.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.11 End Date: 2016.03.11 Last Calib.: 2016.03.11
 Start Time: 15:35:22 End Time: 21:24:16 Time On Btm: 2016.03.11 @ 17:21:32
 Time Off Btm: 2016.03.11 @ 19:58:46

TEST COMMENT: 15-IFP-w k bl thru-out 1/4" to 1 3/4" bl
 45-ISIP-no bl bk
 30-FFP-surace to a 3 1/4" bl
 60-FSIP-no bl bk

PRESSURE SUMMARY



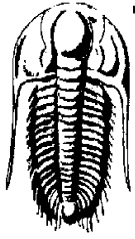
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.80	104.39	Initial Hydro-static
3	20.25	103.54	Open To Flow (1)
18	56.86	106.19	Shut-In(1)
61	758.27	106.43	End Shut-In(1)
61	44.33	106.19	Open To Flow (2)
92	62.66	107.64	Shut-In(2)
153	740.65	109.17	End Shut-In(2)
158	1545.43	107.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90' GIP	0.00
30.00	SOCM 5%O95%M	0.15
60.00	SOCMW 5%O40%M55%W	0.30

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb , Inc
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Goerge Payne, Jon Ch

34-16s-11w Barton
Kroutwurst #21
 Job Ticket: 64921 **DST#: 1**
 Test Start: 2016.03.11 @ 15:35:22

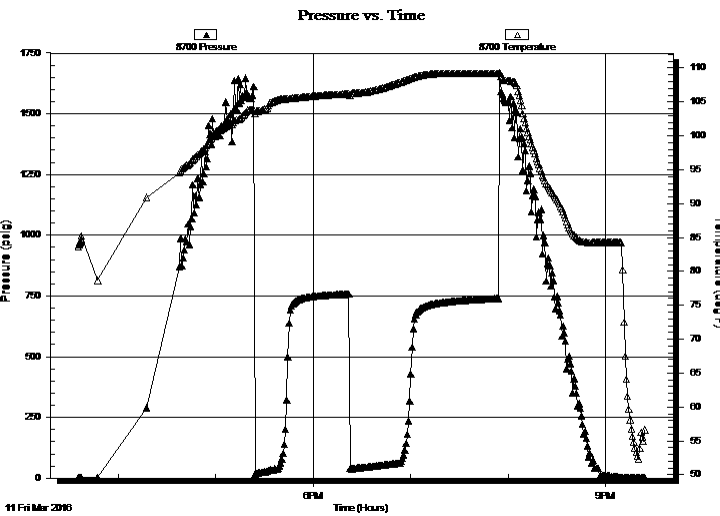
GENERAL INFORMATION:

Formation: **LKC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:24:02
 Time Test Ended: 21:24:16
 Interval: **3272.00 ft (KB) To 3296.00 ft (KB) (TVD)**
 Total Depth: 3296.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 1952.00 ft (KB)
 1941.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8700 Outside

Press @ Run Depth: psig @ 3273.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.11 End Date: 2016.03.11 Last Calib.: 2016.03.11
 Start Time: 15:35:31 End Time: 21:24:25 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IFP-w k bl thru-out 1/4" to 1 3/4" bl
 45-ISIP-no bl bk
 30-FFP-surace to a 3 1/4" bl
 60-FSIP-no bl bk



PRESSURE SUMMARY

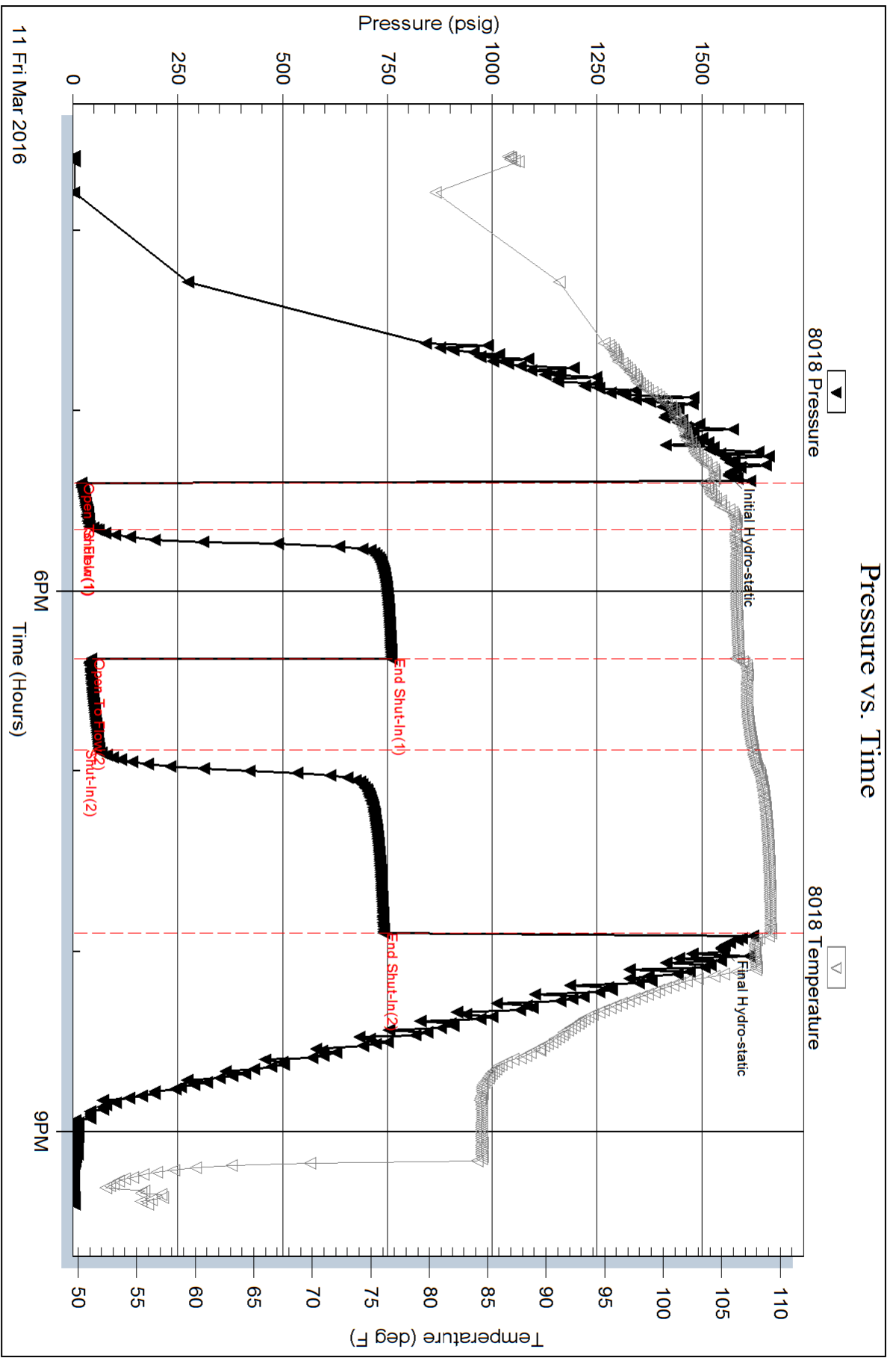
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90' GIP	0.00
30.00	SOCM 5%O95%M	0.15
60.00	SOCMW 5%O40%M55%W	0.30

Gas Rates

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

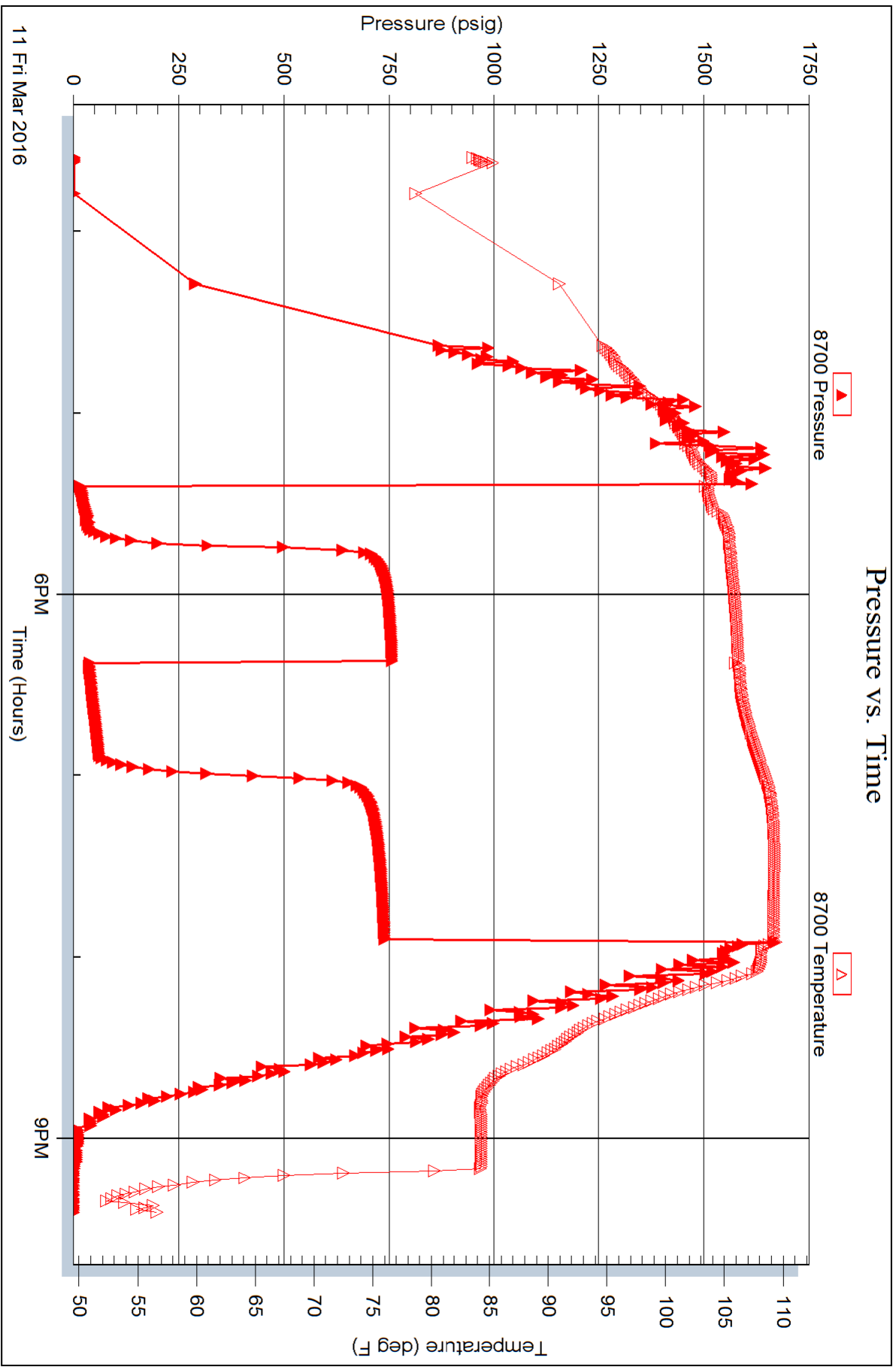


Serial #: 8700

Outside Herrman Loeb, Inc

Kroutwurst#21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64921

Printed: 2016.03.11 @ 22:13:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb, Inc
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: George Payne, Jon Ch

34-16s-11w Barton
Kroutwurst #21
 Job Ticket: 64922 **DST#: 2**
 Test Start: 2016.03.12 @ 09:35:10

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:02:05
 Time Test Ended: 15:07:34
 Interval: **3378.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Total Depth: 3410.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 1952.00 ft (KB)
 1941.00 ft (CF)
 KB to GR/CF: 11.00 ft

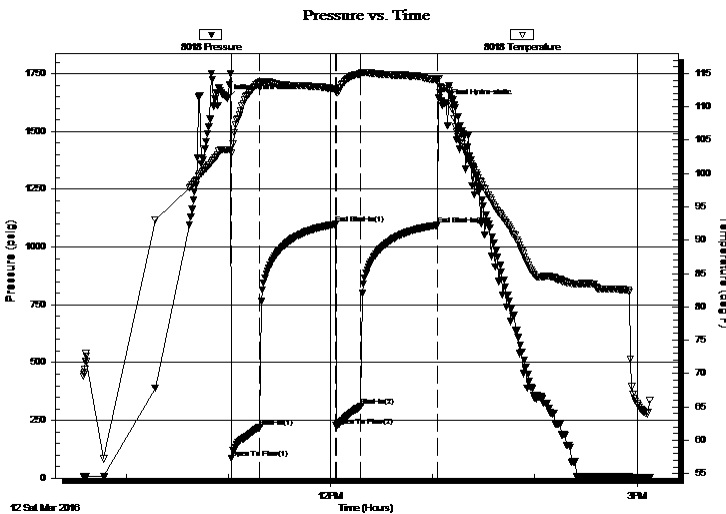
Serial #: 8018

Inside

Press@RunDepth: 312.44 psig @ 3382.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.12 End Date: 2016.03.12 Last Calib.: 2016.03.12
 Start Time: 09:35:10 End Time: 15:07:34 Time On Btm: 2016.03.12 @ 10:59:35
 Time Off Btm: 2016.03.12 @ 13:07:05

TEST COMMENT: 15-IFP-Strg bl in 3min
 45-ISIP-no bl bk
 15-FFP-strg bl in 5min
 45-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.99	103.56	Initial Hydro-static
3	86.41	103.01	Open To Flow (1)
19	220.39	113.65	Shut-In(1)
64	1098.41	112.63	End Shut-In(1)
64	226.73	112.10	Open To Flow (2)
79	312.44	114.96	Shut-In(2)
124	1094.75	114.06	End Shut-In(2)
128	1622.35	112.70	Final Hydro-static

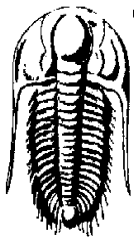
Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	2.37
124.00	SOCMW 5%O10%M85%W	1.74
124.00	OCWM 10%O40%W50%M	1.74
92.00	OCWM 10%O25%W65%M	1.29
2.00	CO	0.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Herman Loeb, Inc
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: George Payne, Jon Ch

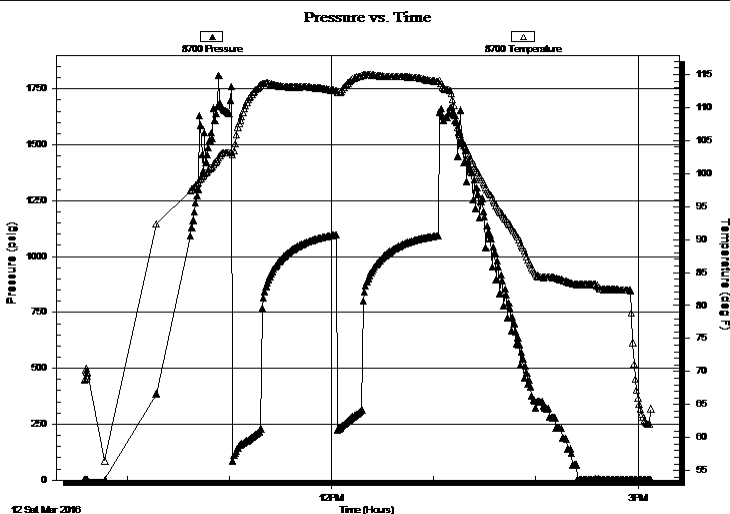
34-16s-11w Barton
Kroutwurst #21
 Job Ticket: 64922 **DST#: 2**
 Test Start: 2016.03.12 @ 09:35:10

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:02:05
 Tester: Ray Schwager
 Time Test Ended: 15:07:34
 Unit No: 70
 Interval: **3378.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Reference Elevations: 1952.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD)
 1941.00 ft (CF)
 Hole Diameter: 7.85 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 8700 Outside
 Press @ RunDepth: psig @ 3382.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.03.12 End Date: 2016.03.12 Last Calib.: 2016.03.12
 Start Time: 09:35:09 End Time: 15:07:33 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IFP-Strg bl in 3min
 45-ISIP-no bl bk
 15-FFP-strg bl in 5min
 45-FSIP-surface bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	2.37
124.00	SOCMW 5%O10%M85%W	1.74
124.00	OCWM 10%O40%W50%M	1.74
92.00	OCWM 10%O25%W65%M	1.29
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman Loeb , Inc

34-16s-11w Barton

PO Box 838
Lawrenceville, IL 62439

Kroutwurst #21

Job Ticket: 64922

DST#: 2

ATTN: Goerge Payne, Jon Ch

Test Start: 2016.03.12 @ 09:35:10

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:

21000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	Water	2.372
124.00	SOCMW 5%O10%M85%W	1.739
124.00	OCWM 10%O40%W50%M	1.739
92.00	OCWM 10%O25%W65%M	1.291
2.00	CO	0.028

Total Length: 652.00 ft

Total Volume: 7.169 bbl

Num Fluid Samples: 0

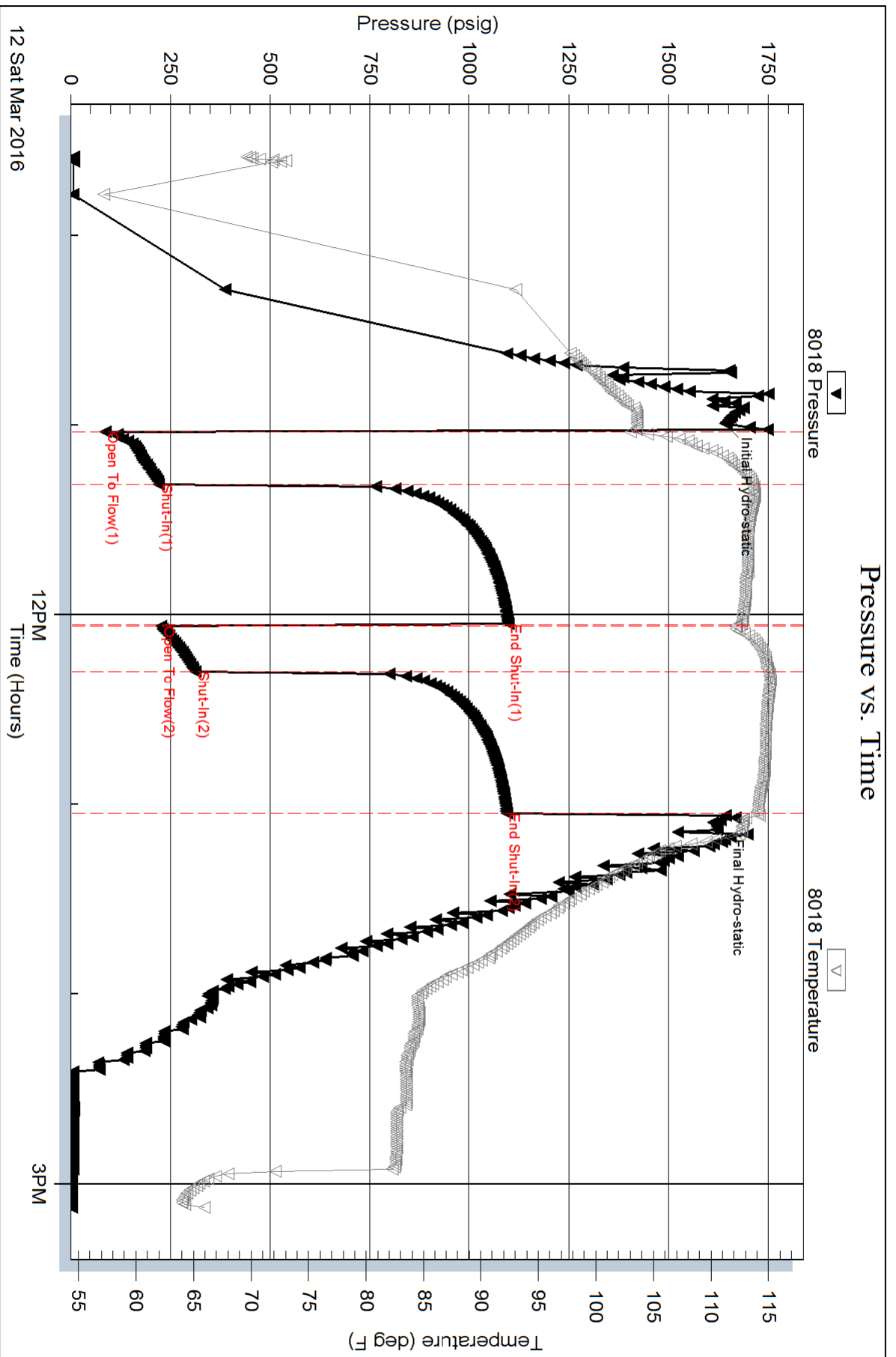
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .4@55F

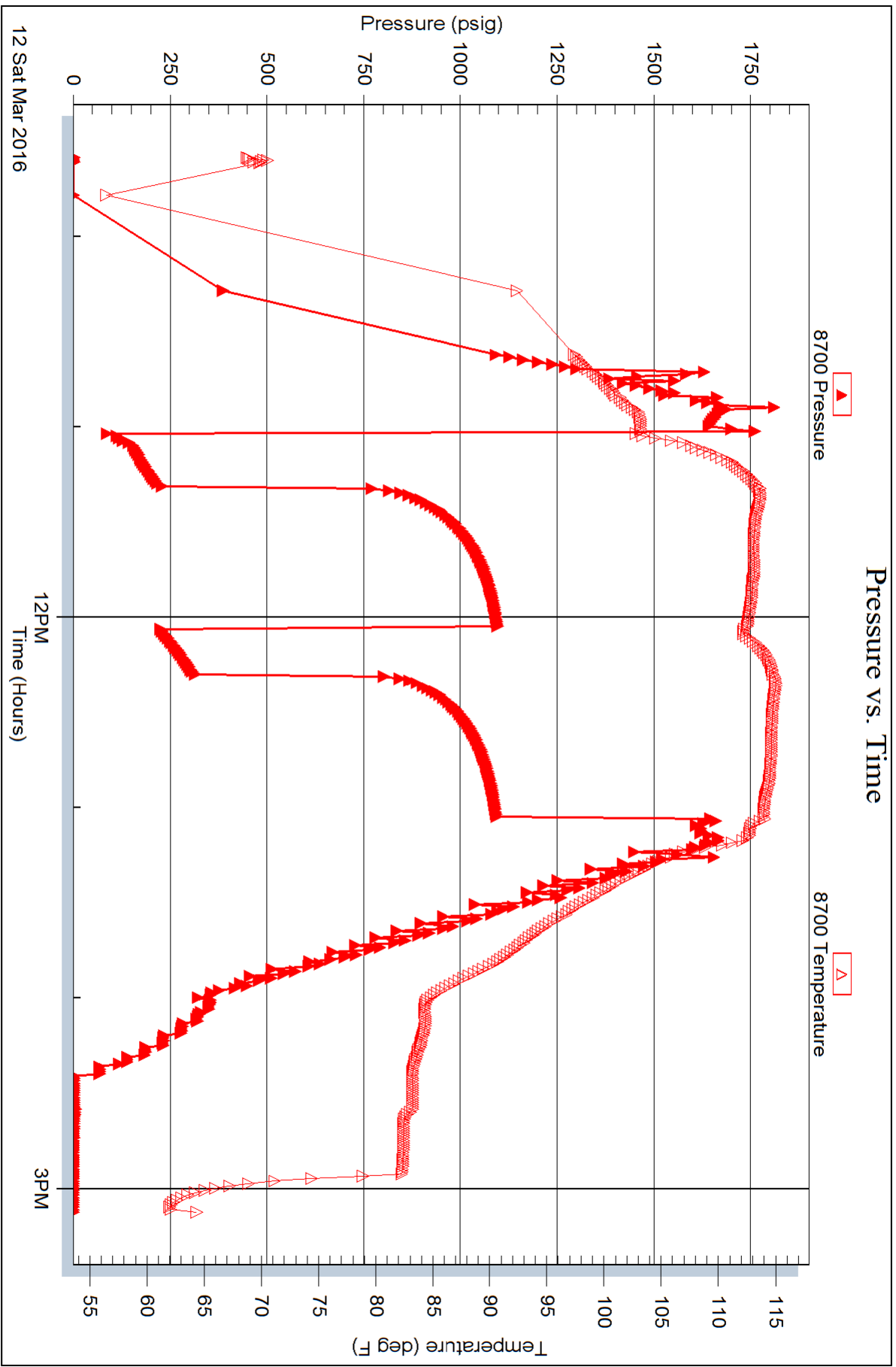


Serial #: 8700

Outside Herrman Loeb, Inc

Kroutwurst#21

DST Test Number: 2





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	03/09/2016
INVOICE NUMBER			
92069366			

Pratt (620) 672-1201

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

J LEASE NAME Kroutwurst #21
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

ACCOUNTS PAYABLE

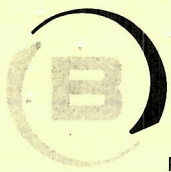
6076 / 6438 / 760 KRout

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40919560	86779-0		Net - 30 days	04/08/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 03/08/2016 to 03/08/2016				
0040919560				
171813286A Cement-New Well Casing/Pi 03/08/2016 8 5/8 Surface Pipe Cement New Well				
A-Con' Blend	195.00	EA	8.10	1,579.50 T
60/40 POZ	150.00	EA	5.40	810.00 T
Celloflake	86.00	EA	1.67	143.19 T
Calcium Chloride	939.00	EA	0.47	443.68 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	101.25	101.25
"8 5/8"" Guide Shoe (Red)"	1.00	EA	247.50	247.50
"Baffle Plate Alum., 8 5/8"" (Blue)"	1.00	EA	76.50	76.50
"Unit Mileage Chg (PU, cars one way)"	75.00	MI	2.02	151.87
Heavy Equipment Mileage	150.00	MI	3.38	506.25
"Proppant & Bulk Del. Chgs., 1174 mil	1.00	EA	1,320.47	1,320.47
Depth Charge; 501'-1000'	1.00	EA	540.00	540.00
Blending & Mixing Service Charge	345.00	BAG	0.63	217.35
Plug Container Util. Chg.	1.00	EA	112.50	112.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	78.75	78.75

PAID
65789
 MAR 15 2016
 SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,328.81
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	223.23
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,552.04
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 13286 A

DATE _____ TICKET NO. _____

DATE OF JOB 3-8-16	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 & Lock		LEASE Krauthurst	WELL NO. 21						
ADDRESS		COUNTY Barton	STATE KS						
CITY	STATE	SERVICE CREW Scott, Shawn, Jake							
AUTHORIZED BY Shane Polkin	JOB TYPE: Surface Pipe 8 3/4" CWL								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
86779	.75					ARRIVED AT JOB	3/8/16	AM	2:10
21010	.5					START OPERATION	3/8/16	AM	3:27
						FINISH OPERATION	3/8/16	AM	4:15
						RELEASED	3/8/16	AM	5:00
						MILES FROM STATION TO WELL			

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP101	A-Cap blend Cement	SK	195		3510.00	
CP103	60/40 POZ	SK	150		1500.00	
CC102	Cellulose	Lb	36		318.00	
CC109	Calcium chloride	Lb	939		985.95	
CF105	Top Rubber Cement Plug 8 3/4"	EA	1		275.00	
CF203	3 5/8" (Grade Spot) (Red)	EA	1		550.00	
CF253	Bottle Plate Aluminum 8 3/4"	EA	1		170.00	
E100	Upul Mixture Charge Pkg	M	75		337.50	
E101	Heavy Equipment Mixture	M	150		1125.00	
E115	Profit B/LB Delivery	TM	1174		2934.38	
CF241	Depth Charge 301-10001	4hr	1		1700.00	
CF240	Standing A Mixture Charge	SK	395		483.00	
CF309	Plug Container 1/4" diameter	Job	1		250.00	
SC03	Service Supervisor Fuel 8hr	EA	1		175.00	
					SUB TOTAL	14,064.03

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		6328.81

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

Customer <i>Herman L. Loeb</i>		Lease No.		Date <i>3/18/16</i>	
Lease <i>Kennett</i>		Well # <i>21</i>			
Field Order # <i>13786A</i>	Station <i>Pratt KS</i>	Casing <i>5/8</i>	Depth	County <i>Pratt</i>	State <i>KS</i>
Type Job <i>8 5/8 Surface pipe CNW</i>		Formation		Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>8 5/8</i>				Pre Pad		Max		5 Min.
Depth <i>786</i>	Depth	From	To	Pad		Min		10 Min.
Volume <i>51.36</i>	Volume	From	To	Frac		Avg		15 Min.
Max Press <i>270</i>	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection <i>5 5/8</i>	Annulus Vol.	From	To	Flush		Gas Volume		Total Load
Plug Depth	Packer Depth	From	To					

Customer Representative <i>Gray</i>	Station Manager <i>Kevin Goodley</i>	Treater <i>Scott Graves</i>
--	---	--------------------------------

Service Units	<i>70752</i>	<i>75982</i>	<i>86775</i>	<i>70959</i>	<i>21010</i>				
Driver Names	<i>Scott</i>	<i>Shawn</i>	<i>—</i>	<i>Truke</i>	<i>—</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:00</i>					<i>On location Safety Meeting Rig up</i>
<i>3:26</i>					<i>Break circulation on bottom</i>
<i>3:30</i>	<i>150</i>			<i>4</i>	<i>Dump H₂O spacer</i>
<i>3:45</i>	<i>200</i>		<i>5</i>	<i>6</i>	<i>Mix 195.5k A-Con 17 ppq</i>
<i>3:45</i>	<i>150</i>		<i>85.78</i>	<i>6</i>	<i>Mix 150.5k 60/40 POZ 14.8 ppq</i>
<i>4:00</i>	<i>0</i>		<i>67.27</i>		<i>Shut down</i>
<i>4:00</i>					<i>Release Plug</i>
<i>4:02</i>	<i>50</i>			<i>5.5</i>	<i>Start Displacement</i>
<i>4:10</i>	<i>210</i>		<i>38</i>	<i>3.5</i>	<i>Reduce Rate</i>
<i>4:15</i>	<i>400</i>		<i>10</i>		<i>Plug landed Start down</i>
					<i>Job Complete</i>



6076/6120/7160Kraut
(Krautwurst # 21)

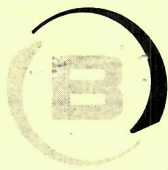
PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	03/17/2016
INVOICE NUMBER			
92075677			

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 Krautwurst #21
O LOCATION
B COUNTY Barton
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40920165	86779-0		Net - 30 days	04/16/2016	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 03/13/2016 to 03/13/2016					
0040920165					
171813287A Cement-New Well Casing/Pi 03/13/2016					
5 1/2 Longstring Cement New Well					
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>PAID 65884 MAR 22 2016</p> </div> <div style="text-align: center;"> <p>SCANNED</p> </div> </div>					
50/50 POZ		120.00	EA	5.28	633.60 T
60/40 POZ		50.00	EA	5.76	288.00 T
Celloflake		30.00	EA	1.78	53.28 T
Gypsum		505.00	EA	0.36	181.80 T
FLA-322		51.00	EA	3.60	183.60 T
Gilsonite		720.00	EA	0.32	231.55 T
KCL		273.00	EA	0.72	196.56 T
"Latch Down Plug & Baffle, 5 1/2" (Blu		1.00	EA	192.00	192.00
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	172.80	172.80
"Turbolizer, 5 1/2" (Blue)"		10.00	EA	52.80	528.00
"Cement Basket, 5 1/2"		2.00	EA	139.20	278.40
Claymax		4.00	EA	16.80	67.20 T
Mud Flush		1,000.00	EA	0.72	720.00 T
"Unit Mileage Chg (PU, cars one way)"		75.00	MI	2.16	162.00
Heavy Equipment Mileage		150.00	MI	3.60	540.00
"Proppant & Bulk Del. Chgs., per ton mil		540.00	EA	1.20	648.00
Depth Charge; 3001-4000'		1.00	EA	1,036.80	1,036.80
Blending & Mixing Service Charge		170.00	BAG	0.67	114.24
Plug Container Util. Chg.		1.00	EA	120.00	120.00
"Service Supervisor, first 8 hrs on loc.		1.00	EA	84.00	84.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,431.83
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	TAX	191.67
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,623.50
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 13287 A

DATE _____ TICKET NO. _____

DATE OF JOB: 3/13/16		DISTRICT		NEW WELL <input 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 Lock		LEASE: Krontz		WELL NO. 21						
ADDRESS		COUNTY: Butler		STATE: KS						
CITY		STATE		SERVICE CREW: Scott, Tebo, C.J.						
AUTHORIZED BY: George Payne		JOB TYPE: 5 1/2 Longshury CHW								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
86779	0.75									
73765	0.75									
						ARRIVED AT JOB	3/13/16	AM	PM	7:50
						START OPERATION	3/13/16	AM	PM	12:15
						FINISH OPERATION	3/13/16	AM	PM	1:00
						RELEASED	3/13/16	AM	PM	1:45
						MILES FROM STATION TO WELL				

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP104	30/50 Poz	SK	120		1320.00	
CP10	60/40 Poz	SK	50		600.00	
CC102	Cellulose	lb	30		111.00	
CC113	Gypsum	lb	505		378.75	
CC129	FIA-322	lb	51		58.50	
CC201	Gibsonite	lb	770		487.40	
CC200	PCC Potassium Chloride	lb	275		409.50	
CF67	lock down Plug + Baffle 2 1/2"	EA	1		400.00	
CF1251	Auto Fill float shoe 3 1/2"	EA	1		360.00	
CF1651	Trimbaleris 5 1/2"	EA	10		1100.00	
CF1961	5/8" Bucket	EA	7		530.00	
CF204	Flux mat PCB Substly	EA	4		146.00	
F100	2 1/2" Mileage Chig Pick ups	M	75		337.50	
F101	Heavy Equipment Mileage	M	130		1125.00	
F113	4000' D&P Potassium Chloride	T	540		1350.00	
CF204	Depth Charge 500' WOOD	460	1		2100.00	
CF240	Blending + Mixing Service	SK	170		258.00	
CF541	Fluid Controller Certification	TOT	1		250.00	
CF151	2000' Flux	Gal	1000		1500.00	
15003	Service Supervisor first shift EA	EA	1		175.00	
					SUB-TOTAL	13,299.50
CHEMICAL / ACID DATA:						
SERVICE & EQUIPMENT					%TAX ON \$	
MATERIALS					%TAX ON \$	
					TOTAL	14,643.18

SERVICE REPRESENTATIVE: _____	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

Customer <i>Herman L Lorb</i>		Lease No.		Date <i>3/15/16</i>	
Lease <i>Kountawast</i>		Well # <i>21</i>			
Field Order # <i>13267A</i>	Station <i>Pratt, KS</i>	Casing <i>5 1/2</i>	Depth <i>3470</i>	County <i>Barton</i>	State <i>KS</i>
Type Job <i>5 1/2 Long string CNW</i>			Formation	Legal Description <i>TU 16 11</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>3456</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>82.9668</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>7000</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>George Purvis</i>	Station Manager <i>Kevin Guidley</i>	Treater <i>Scott Graves</i>
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Service Units	<i>78987</i>	<i>86779</i>	<i>70959</i>	<i>73768</i>	<i>70757</i>				
Driver Names	<i>Tube</i>	<i>—</i>	<i>E.T.</i>	<i>—</i>	<i>Scott</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7:50</i>					<i>On Location Safety Meeting Rig up</i>
<i>9:30</i>					<i>Run Flood Equip Basket 4, 9</i>
					<i>Centralizers 1, 2, 3, 5, 8, 10, 12, 16, 20</i>
<i>11:25</i>					<i>Break Circulation</i>
<i>17:15</i>	<i>150</i>			<i>5</i>	<i>Pump H2O Spacers</i>
<i>17:16</i>	<i>700</i>		<i>5</i>	<i>5</i>	<i>Pump 1000 gal. Mud Flush</i>
<i>17:21</i>	<i>200</i>		<i>24</i>	<i>5</i>	<i>Pump H2O Spacers</i>
<i>17:27</i>	<i>275</i>		<i>5</i>	<i>5.5</i>	<i>Mix 120 sks 50/50 P02 14 mg</i>
<i>17:32</i>	<i>Ø</i>		<i>28.9</i>		<i>Shut down</i>
<i>17:33</i>					<i>Wash pump + lines clean</i>
<i>17:35</i>				<i>5.7</i>	<i>Release Plug Start Displacement</i>
<i>17:46</i>	<i>300</i>		<i>60</i>	<i>5.7</i>	<i>Lift pressure</i>
<i>17:49</i>	<i>400</i>		<i>12</i>	<i>3</i>	<i>Reduce Rate</i>
<i>17:51</i>	<i>500</i>		<i>9</i>	<i>5</i>	<i>Plug landed</i>
<i>17:51</i>	<i>1500</i>				<i>Increase Pressure</i>
<i>17:51</i>	<i>1500</i>				<i>Shut down Pressure hold</i>
<i>17:57</i>	<i>Ø</i>				<i>Release pressure NO Returns</i>
<i>17:55</i>	<i>Ø</i>		<i>8</i>	<i>3</i>	<i>Plug Rod hole 30 sks 60/40</i>
<i>1:00</i>	<i>Ø</i>		<i>6.5</i>	<i>3</i>	<i>Plug Mouse hole 20 sks 60/40</i>
					<i>Shut down</i>
					<i>Job Complete</i>

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Jay Scott Emler, Chairman
Shari Feist Albrecht, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

July 26, 2016

Jesse Middagh
HERMAN L. LOEB, LLC
PO BOX 838
LAWRENCEVILLE, IL 62439

Re: ACO-1
API 15-009-26138-00-00
KROUTWURST 21
SE/4 Sec.34-16S-11W
Barton County, Kansas

Dear Jesse Middagh:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 03/07/2016 and the ACO-1 was received on July 26, 2016 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department