



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1323891
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: _____

1323891

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
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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. <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	LANGE 1
Doc ID	1323891

Tops

Name	Top	Datum
Topeka	2151	-846
Heebner Shale	2552	-1247
Toronto	2568	-1263
Kansas City	3167	-1862
Drum	3176	-1871
Swope	3314	-2009
Base KC	3399	-2094
Marmaton	3480	-2175
Miss Chert	3808	-2503
Miss Lmst	3818	-2513

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Lange #1
Location: 2305' FNL & 2260' FWL, Sec. 2-T31S-R3W, Sumner Co., KS.
Licence Number: 15-191-22778
Spud Date: 8/11/2016
Surface Coordinates: 2305' FNL & 2260' FWL, Sec. 2-T31S-R3W
Region: Moyer Northwest
Drilling Completed: 8/18/16

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 1294' K.B. Elevation (ft): 1305'
Logged Interval (ft): 2100' To: 3900' Total Depth (ft): 3900'
Formation: Mississippi at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 2480'; Chemical Gel 2480' to 3900'

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: 277 S. Maple Dunes Court
Wichita, KS. 67235-7500

Cores

None Taken

DSTs

DST #1(Upper Kansas City) 3182' - 3198'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Strong Blow BOB/3 Min., FFP Strong Blow BOB/1 Min., No GTS, no Blowback on SI's; REC: 185' MCO(Avg. 88%O, 12%M - API 33.1 Deg. Oil), no water, no GIP; IFP 42-43#, ISIP 1053#, FFP 37-81#, FSIP 1023#, IHP 1625#, FHP 1565#, BHT 115 Deg. F.

DST #2(Kansas City 'J' zone) 3250' - 3286'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Fair building to Good 10" Blow, FFP Fair Blow built to BOB/16 Min., 0.5" Blowback on FSI; REC: 310' Gas in Pipe, 82' GOCWM(20%G, 20%O, 30%W, 30%M), 62' MW(15%M, 85%W), 122' SW(CI 50,000 from MudCo., Mud 2500); IFP 34-81#, ISIP 1074#, FFP 89-156#, FSIP 1073#, IHP 1638#, FHP 1574#, BHT 117 Deg. F.

DST #3(Kansas City Swope) 3293' - 3327'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/9 Min, FFP Strong Blow BOB/7 Min, no Gas to Surface, no Blowback on SI's; REC: 558' Gas in Pipe, 10' GCM(30%G, 70%M), 120' GO&MCW(14%G, 32%O, 42%W, 12%M), not enough water for CI measurement; IFP 25-39#, ISIP 853#, FFP 45-81#, FSIP 947# and building , IHP 1659#, FHP 1597#, BHT 114 Deg. F.

Comments

8/11/16 MIRU Sterling Drilling Co. Rig #4, Spud at 6:00 PM.; 8/12/16 TD. 290' - WOC; 8/13/16 Drilling at 1050'; 8/14/16 Drilling at 2865'; 8/15/16 Drilling at 3250'; 8/16/16 TD. 3328' - TOH with DST #3; 8/17/16 Drilling at 3575'; 8/18/16 RTD. 3900' - Reached TD. at 3:00 AM., TOH for Logs; 8/19/16 RTD. 3900', LTD. 3900' - Production Casing Set - Rig released at 4:00 AM.

Set new 8 5/8"(23#) Surface Casing at 285' KB. with 250 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 6:30 AM. 8/12/16.

Set new 5 1/2"(15.5#) Production Casing at 3406' KB. with 250 sacks of "Loeb Blend" Cement(Basic Energy Services). PD. at 2:00 AM. on 8/19/16.

Surveys: 1.50 Deg. at 290'(Surface Casing); 0.75 Deg. at 3200'(DST #1); 1.0 Deg. at 3328'(DST #3); 0.75 Deg. at 3900'(RTD).


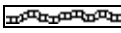
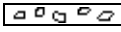
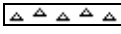
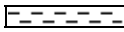







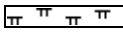
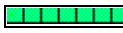
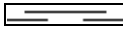
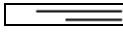
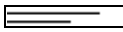



Pipe Strap at 3200'(DST #1): Strap 0.16' Long to the Board, no correction made to the Board.

After review of the ELI Wireline Logs, DST data, structural position and positive indications of commercially recoverable hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Kansas City Swope and Drum zones.








































































LOG TOPS: Topeka 2151(-846), Heebner Shale 2552(-1247), Toronto 2568(-1263), Iatan Lmst. 2862(-1557), Stalnaker Sand 2909(-1604), Kansas City 3167(-1862), Drum 3176(-1871), Stark Shale 3296(-1991), Swope 3314(-2009), Hertha 3346(-2041), Base Kansas City 3399(-2094), Marmaton 3480(-2175), Cherokee Shale 3613(-2308), Miss. Chert 3808(-2503), Miss. Chert 3808(-2503), Miss. Lmst. 3818(-2513).

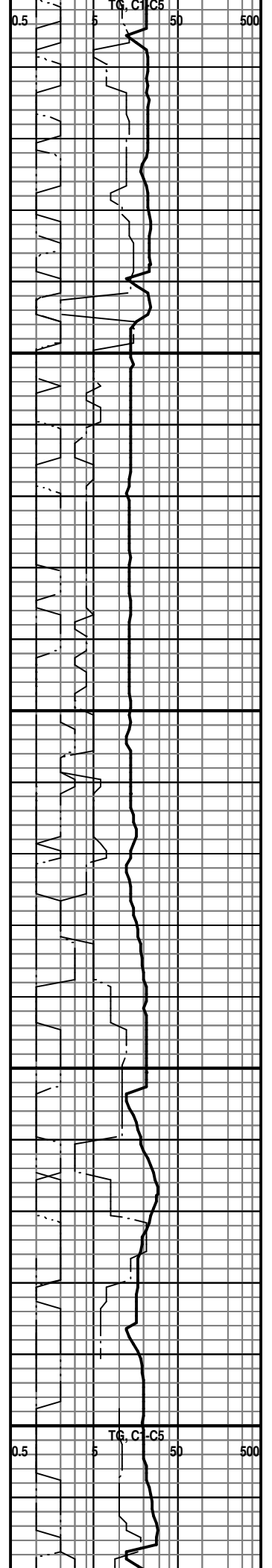
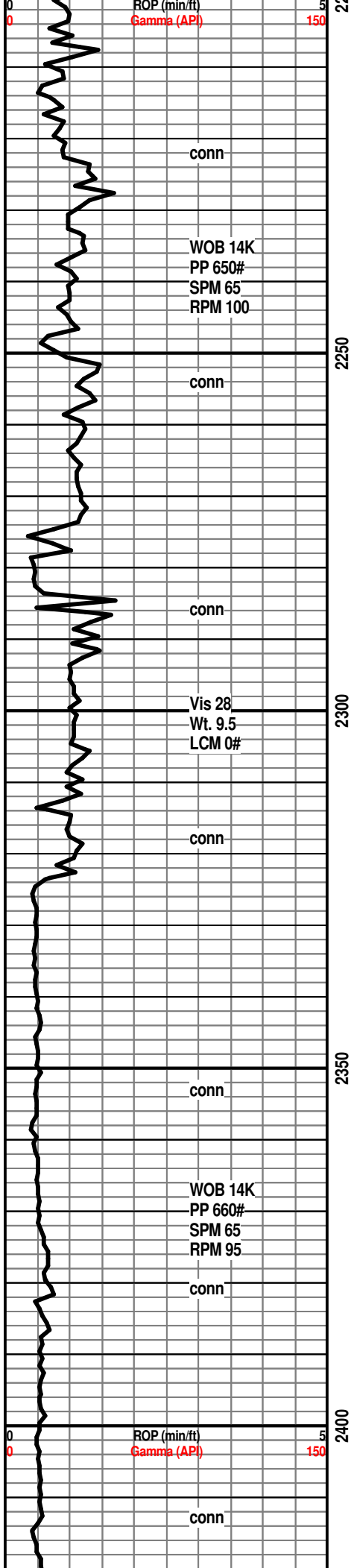
NOTE: This log was shifted upward by 1' to 3' for correlation purposes with the ELI Wireline Logs.

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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Vis 28
Wt. 9.6
LCM 0#

conn

2450

conn
WOB 14K
PP 730#
SPM 65
RPM 93

A.V.= 151.00
at 65 SPM

conn

2500

conn

2550

conn
Vis 38
Wt. 8.7
LCM 0#

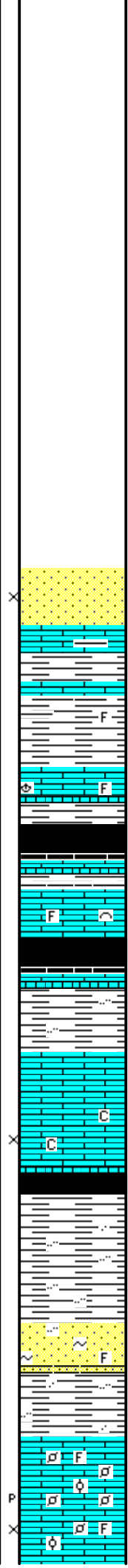
ROP (min/ft)
Gamma (API)

conn

2600

WOB 13K
PP 805#
SPM 65
RPM 92

conn



DISPLACE MUD SYSTEM AT 2480'

Start 20' Wet and Dry Samples at 2500'

SS; lt gy, f to occ med gr qtz, clusters, fair to gd intergran por, occ mica, no fluor/stn or odor, ns.

LM; tan to lt brn, rare foss, argil ip.

LM; med gy, gy brn, foss ip, hd, blocky

SH; blk, carb ip, platy, trc gas bubbles

LM; med to dk brn, blocky, foss ip, tite

HEEBNER SHALE 2552(-1247)

SH; blk, platy, carb ip.

SH; med gy, gy grn, silty ip.

TORONTO 2568(-1263)

LM; lt to med brn, blocky, hd, some cse xln lmst, no vis por, dull yel min fluor, ns.

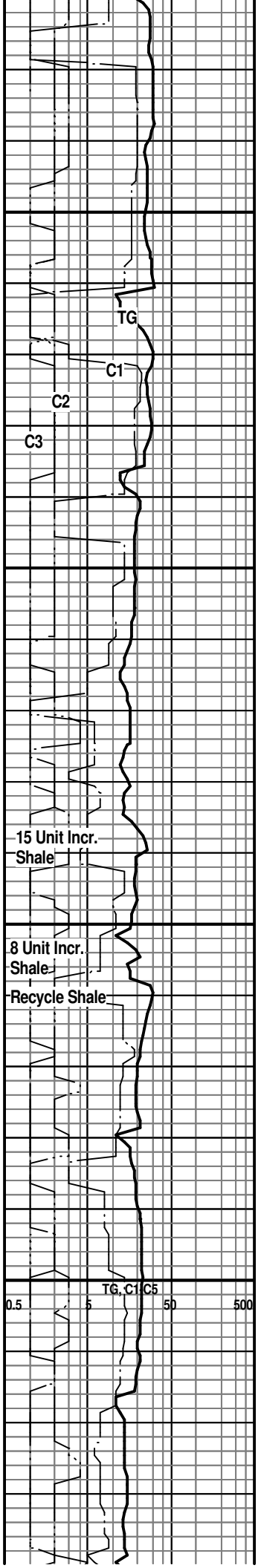
LM; tan to lt brn, f to med xln, poor to fair interxln por, rarely chalky, lt yel min fluor, no stn or odor, ns.

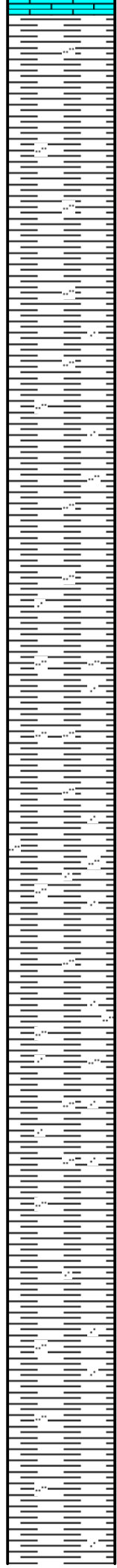
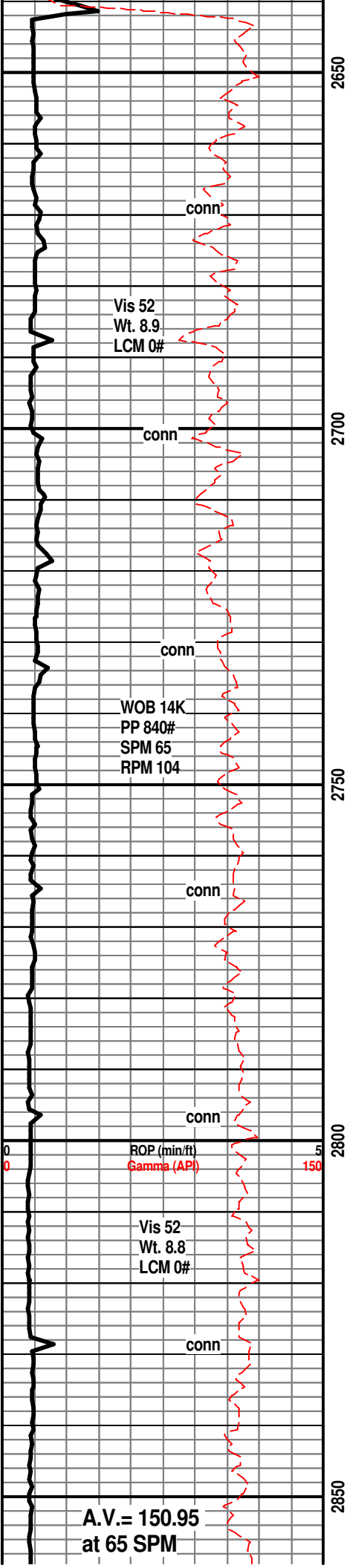
SH; blk, carb, blocky

SH; lt gy, silty to sandy, platy

SS; lt gy, hd tite ss, trc glau

LM; tan to lt brn, v. foss, scat pellets and ooids, some fair p-p and interpart por, lt yel fluor, no stn or odor, no gas kick





SH; It to med gy, platy, occ silty

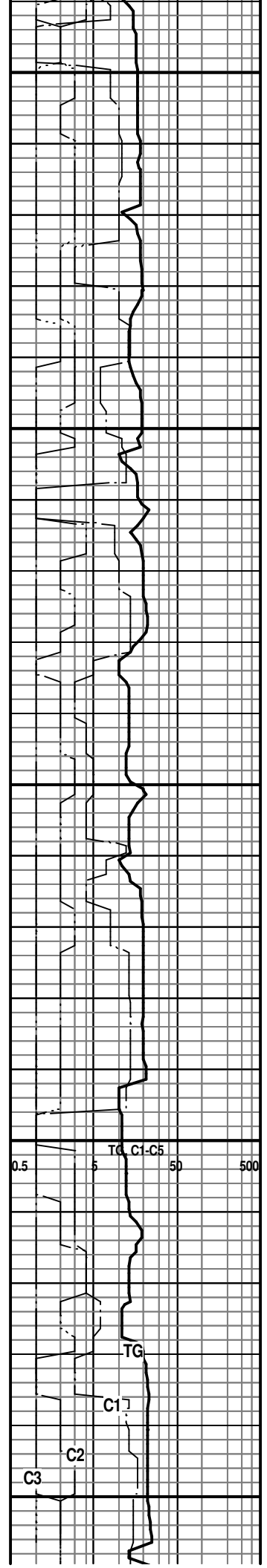
SH; It to med gy, platy, silty to sandy

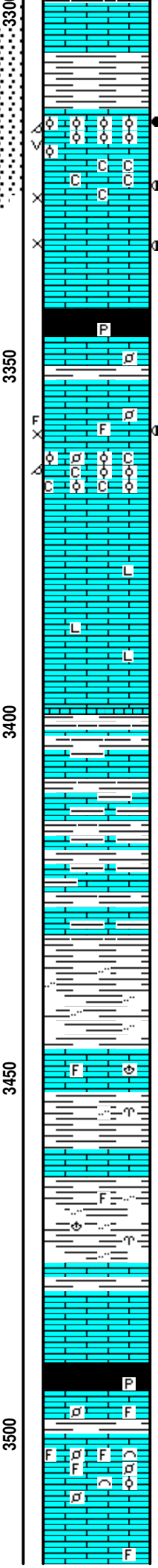
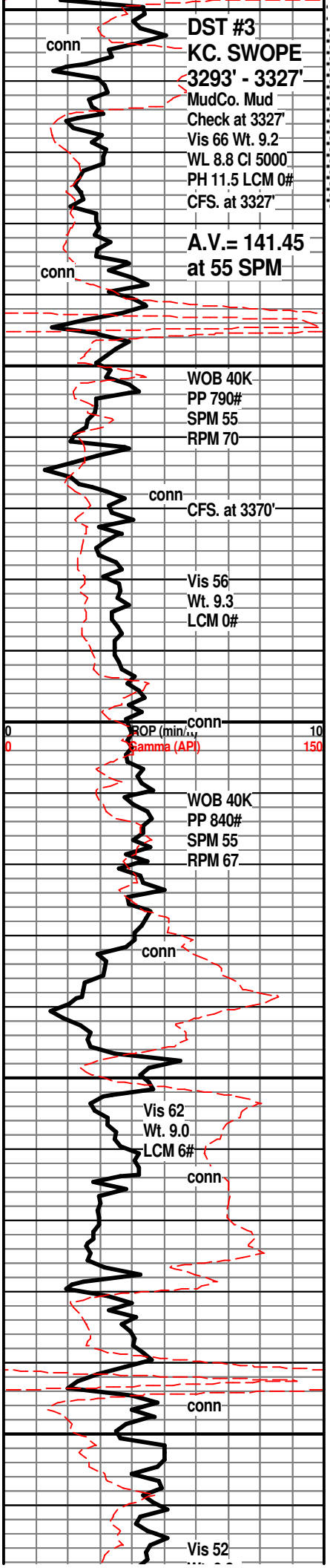
SH; It to med gy, platy, rarely sandy

SH; It to med gy, platy, smooth, occ silty

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

SH; It to med gy, silty to sandy





SH; brn, carb, soft to occ blocky
 LM; med to dk brn, dense, scat spar calc xtals, tite

SWOPE 3314(-2009)
 LM; lt to med brn, finely oolitic, most small to occ med size molds, well dev. oomoldic por, occ vug por, med golden brn spotty to even oil stn, gd odor, SSFO, fair to gd cut, med to occ brite yel fluor, sev. pcs bleeding oil, bcm chalky

DST #3: K.C. Swope 3293' - 3327'
Corrected Depths to Log
 LM; tan to med brn, fxln ip, poor to fair interxln por, some hd micrite, scat lt to med yel fluor, trc spotted med brn stn, looks tite
 SH; blk, carb, blocky ip, trc pyr

HERTHA 3346(-2041)
 LM; tan to cream, foss ip, most fxln w/poor to fair vis interxln por, scat lt to med brn stn, fair odor, trc F.O., lt to occ med yel fluor, fair cut, poss frags, most looks tite

LM; lt brn, gy brn, foss - oolitic, poor to fair oomoldic por, chalky mtx ip, v. dull yel to no fluor, no vis stn, no odor, barren

LM; med to occ dk brn, dense, some litho, blocky, tite

BASE KANSAS CITY 3399(-2094)
 SH; grn, gy grn, platy to flakey

LM; med gy brn, argil w/interbdd lmy sh, hd, most blocky

LM; dk brn, dk gy brn, dk gy, hd, blocky, argil

SH; varic, maroon, sea grn, gy, platy, some silty

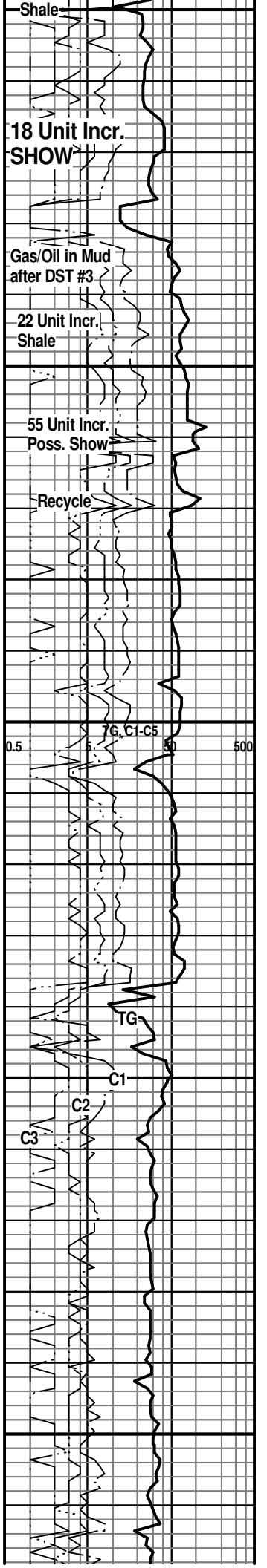
LOST PARTIAL RETURNS AT 3449' - Pull 5 Stands, mix LCM, regain full returns
 LM; lt brn, gy brn, scat well cem foss mat, occ tan fresh cht, no vis por, ns

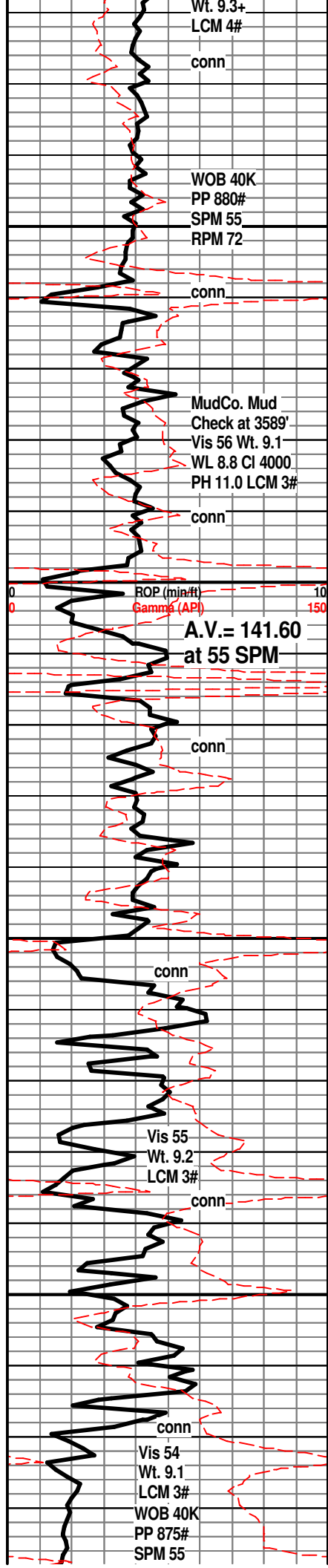
SH; med gy, gy grn, some varic w/maroon and rust red, foss ip, silty ip.

MARMATON 3480(-2175)
 LM; tan, lt gy, most dense - micritic, hd, no vis por, no fluor, ns.

SH; blk, blocky, trc pyr, no gas kick

LM; lt to med brn, highly foss w/scat hash and well cem oolites/pellets, lt yel min fluor, no stn or odor, ns.



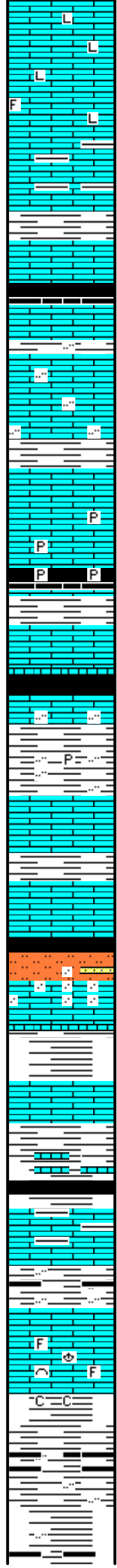


3550

3600

3650

3700



LM; tan to lt brn, most dense, rare foss mat, some litho, no vis por, no fluor, ns.

LM; med to dk brn, occ gy brn, argil ip, tite

LM; tan to med brn, dense, micritic, ns.
SH; blk, carb, trc gas

LM; lt to med gy, gy brn, hd, blocky, tite

LM; lt to med gy, rare gy brn, fxln to micritic, scat gritty text - partly silty, no vis por, v. dull yel fluor, no stn, ns.

LM; med brn, gy brn, hd, scat pyr, no vis por, no fluor, ns.
SH; blk, carb, pyr ip, trc gas

LM; tan to lt brn, foss ip, well cem, dull yel min fluor, no vis por, ns.
CHEROKEE SHALE 3613(-2308)
SH; blk, carb, blocky, brittle ip.
LM; lt to med brn, dense, micritic, dull yel min fluor, some gritty text - silty ip, ns.
SH; med gy, gy grn, silty ip, occ pyr

LM; med brn, blocky, micritic, tite

LM; med gy brn, hd, micritic, dull yel min fluor, ns.

SLTST; grn, gy grn, platy, some sandy ip.
LM; med gy, sandy ip, well cem, no vis por, ns.

LM; lt to med brn, blocky, micritic, tite

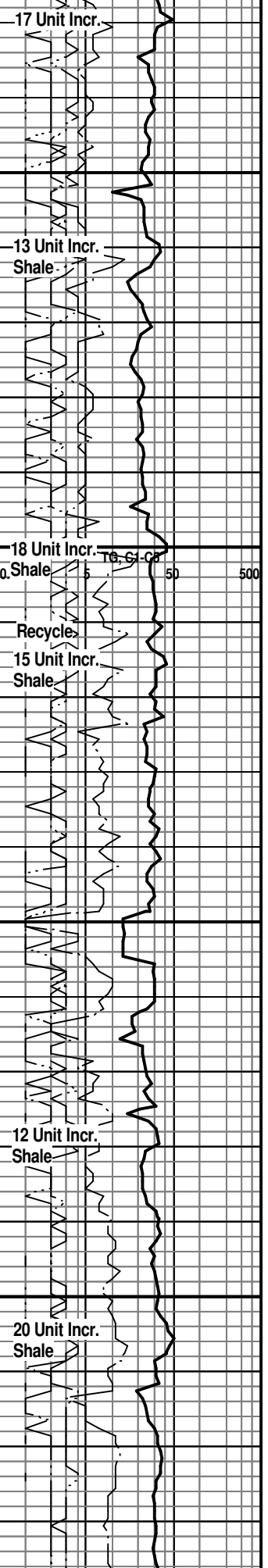
SH; dk gy, trc blk, some varic w/interbdd shaly lmst.

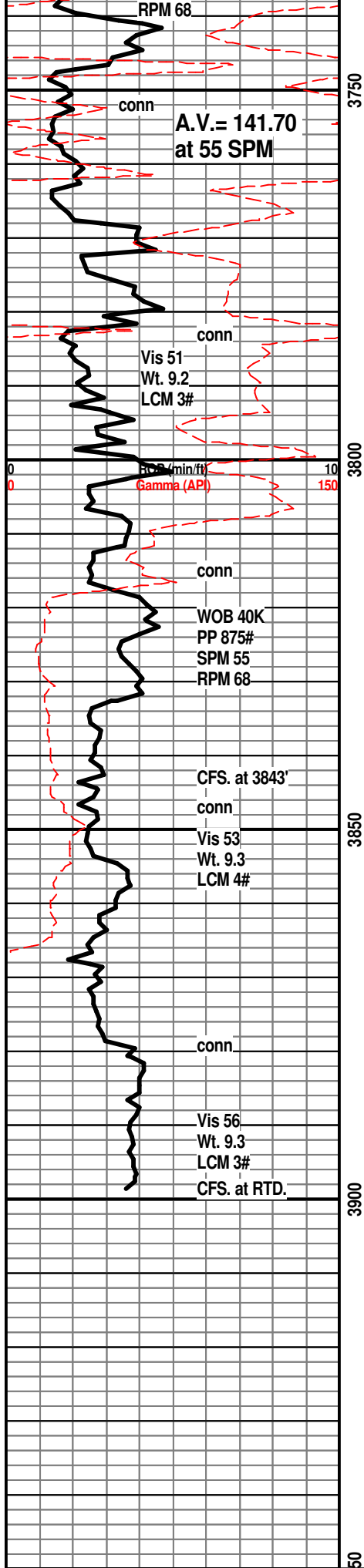
LM; dk brn, gy brn, argil
SH; lt gy, pale gy grn, soft ip, some silty, some interbdd blk sh

LM; tan to lt brn, off wh, foss ip, most well cem micrite, interbdd soft chalky lmst, lt yel min fluor, no stn or odor, ns.

SH; lt to med gy, gy grn, grn, some blk, platy, occ silty

SH; varic, maroon, gy, silty ip





LM; med gy, gy brn, interbdd cht, hd, some argil lmst, tite

SH; blk, pyr ip, carb w/trc coaly frags, gassy

SH; varic, some dk gy - blk, platy, silty ip.

LM; med brn, hd, argil, blocky, interbdd med to dk gy sh, some brn and varic sh.

SH; varic, platy, interbdd dk grn partly weathered lmst and shaly lmst

SH; varic, grn, gy, brn, interbdd weathered grn to brn occ nodular lmst

SH; med gy, grn, platy, few clusters of med gr qtz ss, no stn or odor, ns.

MISSISSIPPI CHERT 3808(-2503)
CHT; wh, brn, tan, most fresh, trc weathered wh cht, trc frags, looks tite, no stn/fluor, no odor

MISSISSIPPI LMST. 3818(-2513)
LM; tan to cream, off wh, med to cse xln, poor to no vis interxln por, cherty ip, scat soft chalky mtx, dull yel min fluor, no stn or odor, ns.

LM; tan to cream, off wh, cse xln, partly dolomitic, poor interxln por, cherty ip, no fluor, no stn or odor, no gas kick

DOL; lt to med brn, sucrosic, interbdd gy fresh to partly weathered foss cht, trc. dull yel fluor, poor interxln por, no odor, no vis oil stn, no sample shows

LM; tan to cream, off wh, cherty mostly fresh, blocky, foss ip, hd, partly dolomitic, no fluor, ns.

CHT; wh, off wh, lt gy, foss, most fresh, rarely dolomitic, interbdd tan cse xln cherty lmst w/poor interxln por, no fluor, ns.

LM; lt to med brn, med xln, partly dolomitic, dense, no vis por, cherty, trc glau, no stn or odor, ns.

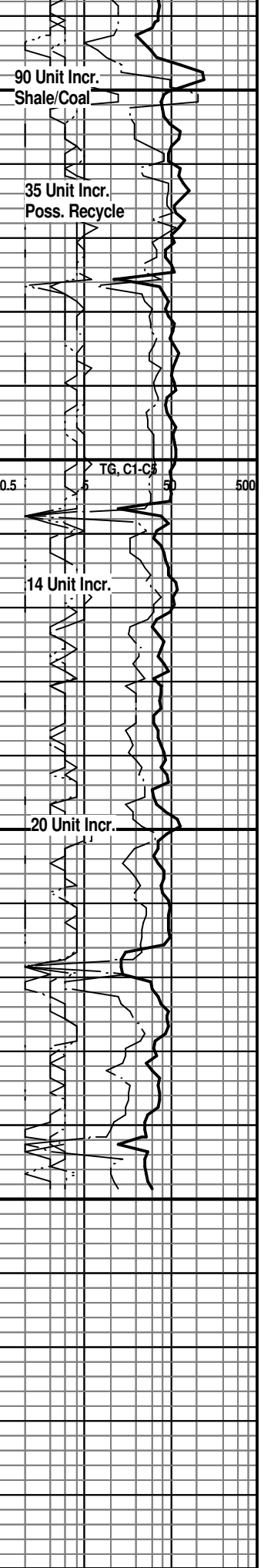
LM; lt to med brn, dolomitic ip, scat pyr, some glau, no vis por, ns.

RTD. 3900' at 3:00 AM. 8/18/16

LTD. 3900'

ELI Wireline Co. DIL, NEU/DEN + PE, Microlog

NOTE: This log was shifted upward by 1' to 3' for Correlation purposes with the ELI Wireline Logs.





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

2-31S-3W Sumner

Lange 1

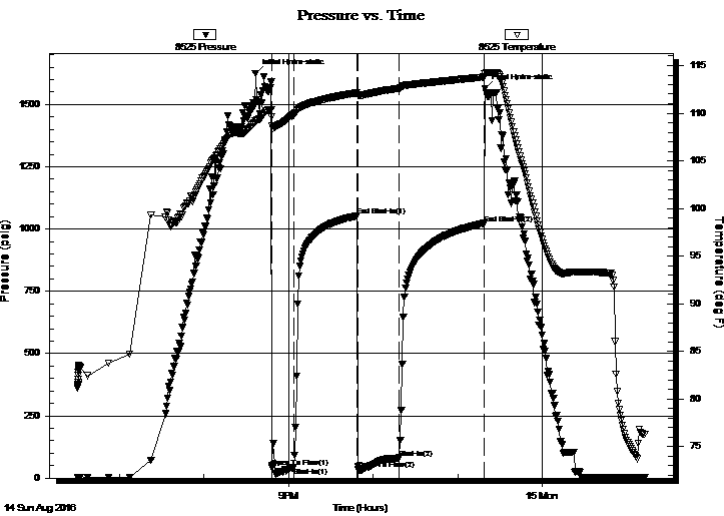
Job Ticket: 55407 **DST#: 1**
Test Start: 2016.08.14 @ 18:30:34

GENERAL INFORMATION:

Formation: **Upper KC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:48:04
Time Test Ended: 01:12:49
Interval: **3184.00 ft (KB) To 3200.00 ft (KB) (TVD)**
Total Depth: 3200.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1305.00 ft (KB)
1294.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8525 Inside
Press@RunDepth: 81.38 psig @ 3185.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.14 End Date: 2016.08.15 Last Calib.: 2016.08.15
Start Time: 18:30:35 End Time: 01:12:49 Time On Btm: 2016.08.14 @ 20:36:34
Time Off Btm: 2016.08.14 @ 23:19:19

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
IS: No Blow Back
FF: Strong Blow , BOB in 1 minute
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.50	109.16	Initial Hydro-static
12	41.75	109.64	Open To Flow (1)
28	43.28	109.88	Shut-In(1)
72	1052.85	112.14	End Shut-In(1)
73	36.84	111.87	Open To Flow (2)
102	81.38	112.61	Shut-In(2)
162	1023.05	113.79	End Shut-In(2)
163	1564.85	114.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCO 14%M 86%O	0.61
61.00	MCO 10%M 90%O	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb

2-31S-3W Sumner

PO Box 838
Lawrenceville, IL 62439

Lange 1

Job Ticket: 55407

DST#: 1

ATTN: Jon Christensen

Test Start: 2016.08.14 @ 18:30:34

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCO 14%M 86%O	0.610
61.00	MCO 10%M 90%O	0.300

Total Length: 185.00 ft Total Volume: 0.910 bbl

Num Fluid Samples: 0

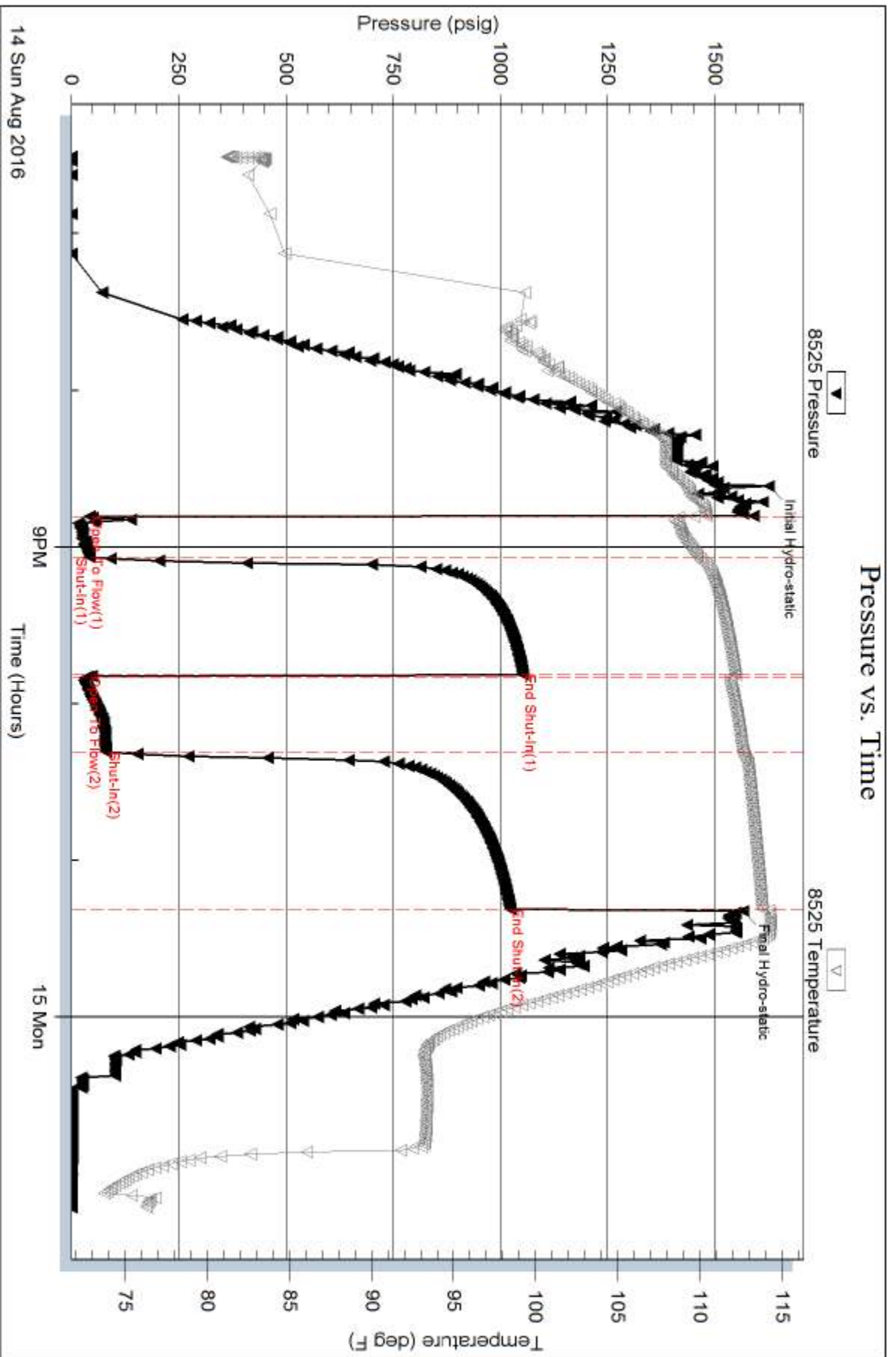
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

2-31S-3W Sumner

Lange 1

Job Ticket: 55408

DST#: 2

Test Start: 2016.08.15 @ 11:45:17

GENERAL INFORMATION:

Formation: **KC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:01:17
 Time Test Ended: 18:19:02
 Interval: **3252.00 ft (KB) To 3288.00 ft (KB) (TVD)**
 Total Depth: 3288.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1305.00 ft (KB)
 1294.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8525

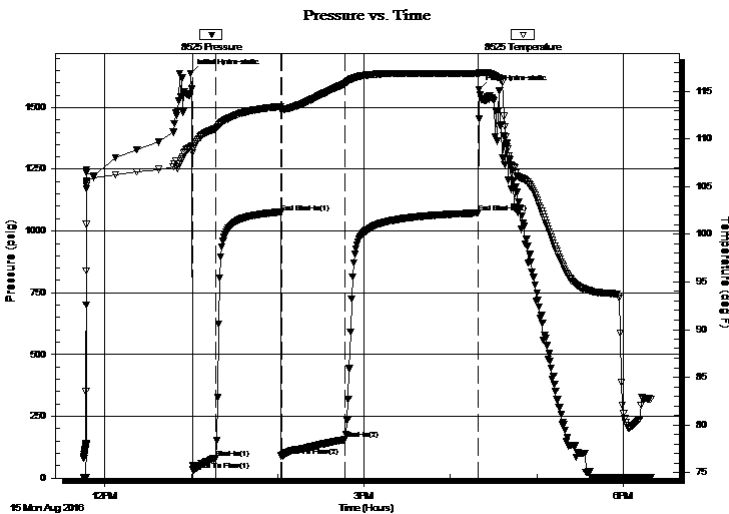
Inside

Press@RunDepth: 156.34 psig @ 3253.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.15 End Date: 2016.08.15 Last Calib.: 2016.08.15
 Start Time: 11:45:18 End Time: 18:19:02 Time On Btm: 2016.08.15 @ 12:59:32
 Time Off Btm: 2016.08.15 @ 16:20:02

TEST COMMENT: IF: Fair Blow , Built to 10 inches
 IS: No Blow Back
 FF: Fair Blow , BOB in 16 minutes
 FS: 1/2 inch Blow Back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.40	109.19	Initial Hydro-static
2	33.71	108.96	Open To Flow (1)
18	81.26	111.09	Shut-In(1)
63	1073.55	113.42	End Shut-In(1)
64	88.58	113.18	Open To Flow (2)
108	156.34	115.85	Shut-In(2)
200	1073.00	116.85	End Shut-In(2)
201	1573.14	116.98	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
0.00	310 GIP	0.00
122.00	Water	0.60
62.00	MCW 15%M 85%W	0.30
82.00	GOWCM 20%G 20%O 30%W 30%M	0.87

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
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

2-31S-3W Sumner
Lange 1
Job Ticket: 55408 **DST#: 2**
Test Start: 2016.08.15 @ 11:45:17

Mud and Cushion Information

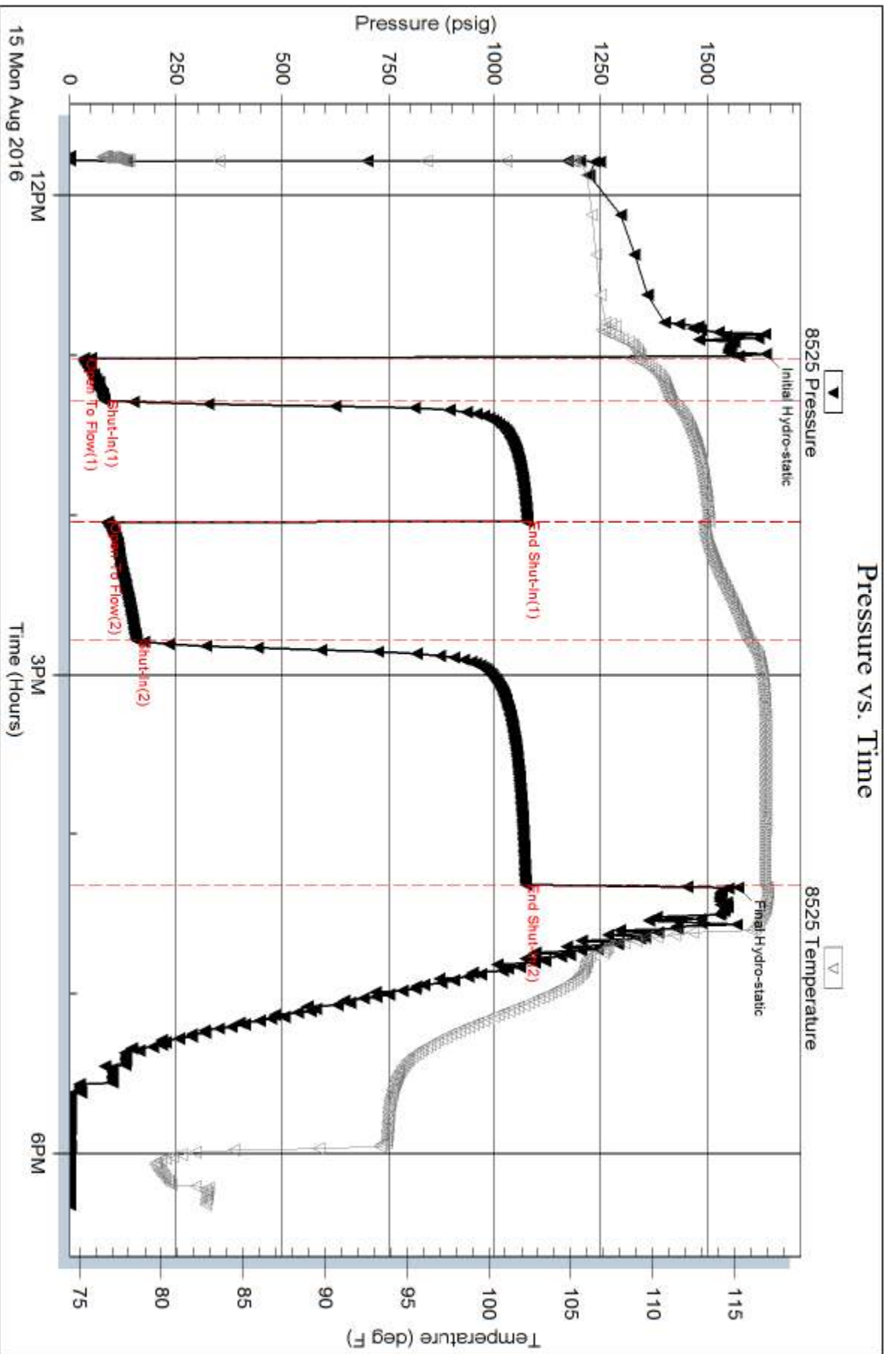
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	93000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	310 GIP	0.000
122.00	Water	0.600
62.00	MCW 15%M 85%W	0.305
82.00	GOWCM 20%G 20%O 30%W 30%M	0.868

Total Length: 266.00 ft Total Volume: 1.773 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW w as .07 @ 85 degrees

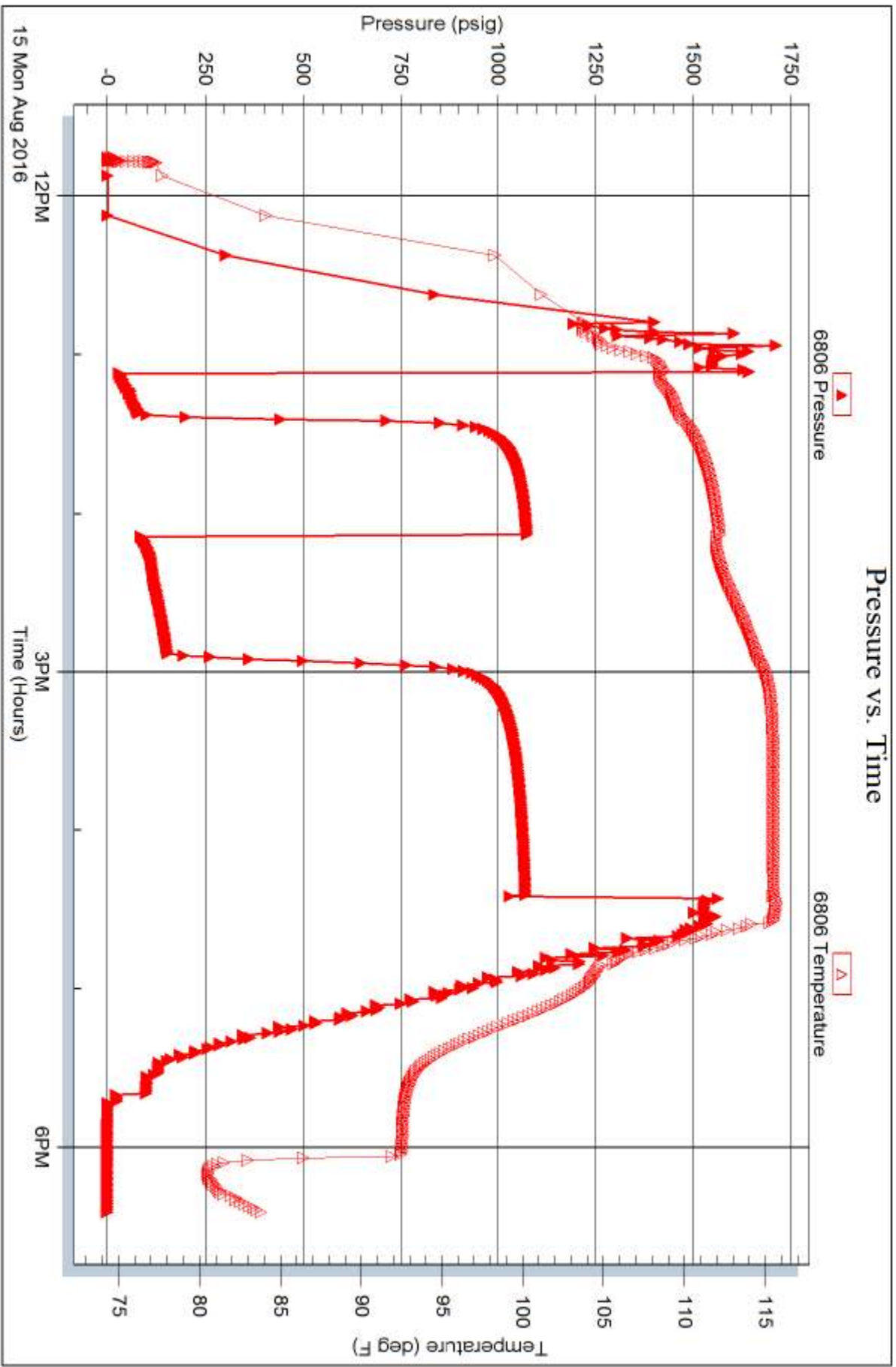


Serial #: 6806

Outside Herman L Loeb

Lange 1

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L Loeb
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

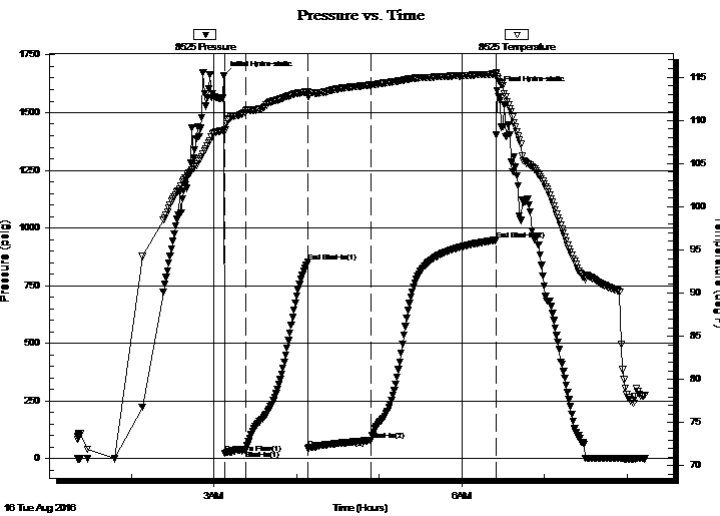
2-31S-3W Sumner
Lange 1
 Job Ticket: 55409 **DST#: 3**
 Test Start: 2016.08.16 @ 01:20:41

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:07:56 Tester: Leal Cason
 Time Test Ended: 08:13:41 Unit No: 74
 Interval: **3294.00 ft (KB) To 3328.00 ft (KB) (TVD)** Reference Elevations: 1305.00 ft (KB)
 Total Depth: 3328.00 ft (KB) (TVD) 1294.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 81.19 psig @ 3295.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.16 End Date: 2016.08.16 Last Calib.: 2016.08.16
 Start Time: 01:20:42 End Time: 08:13:41 Time On Btm: 2016.08.16 @ 03:06:56
 Time Off Btm: 2016.08.16 @ 06:25:41

TEST COMMENT: IF: Fair Blow , BOB in 9 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 7 minutes
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.97	108.83	Initial Hydro-static
1	24.97	108.85	Open To Flow (1)
16	38.79	111.11	Shut-In(1)
61	852.65	113.32	End Shut-In(1)
62	45.34	112.80	Open To Flow (2)
107	81.19	114.08	Shut-In(2)
198	947.40	115.35	End Shut-In(2)
199	1596.58	115.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	558 GIP	0.00
120.00	GMOCW 14%G 12%M 32%O 42%W	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

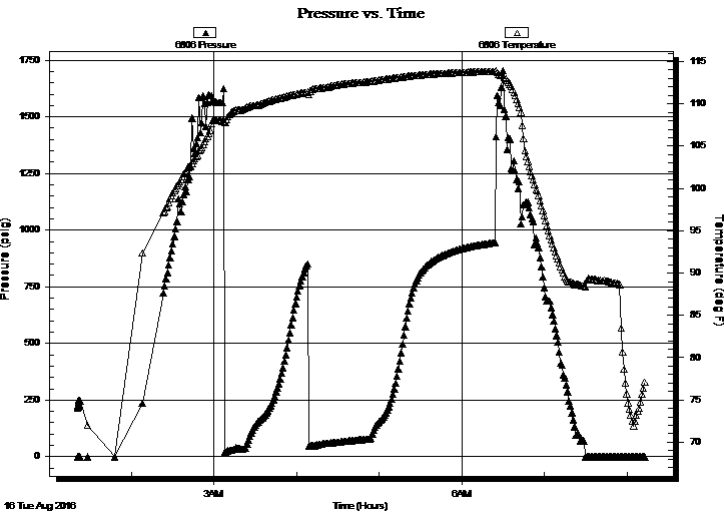
2-31S-3W Sumner
Lange 1
 Job Ticket: 55409 **DST#: 3**
 Test Start: 2016.08.16 @ 01:20:41

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:07:56
 Time Test Ended: 08:13:41
 Interval: **3294.00 ft (KB) To 3328.00 ft (KB) (TVD)**
 Total Depth: 3328.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1305.00 ft (KB)
 1294.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6806 Outside
 Press@RunDepth: psig @ 3295.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.16 End Date: 2016.08.16 Last Calib.: 2016.08.16
 Start Time: 01:20:42 End Time: 08:13:26 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 9 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 7 minutes
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	558 GIP	0.00
120.00	GMOCW 14%G 12%M 32%O 42%W	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb

2-31S-3W Sumner

PO Box 838
Lawrenceville, IL 62439

Lange 1

Job Ticket: 55409

DST#: 3

ATTN: Jon Christensen

Test Start: 2016.08.16 @ 01:20:41

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: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	558 GIP	0.000
120.00	GMOCW 14%G 12%M 32%O 42%W	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

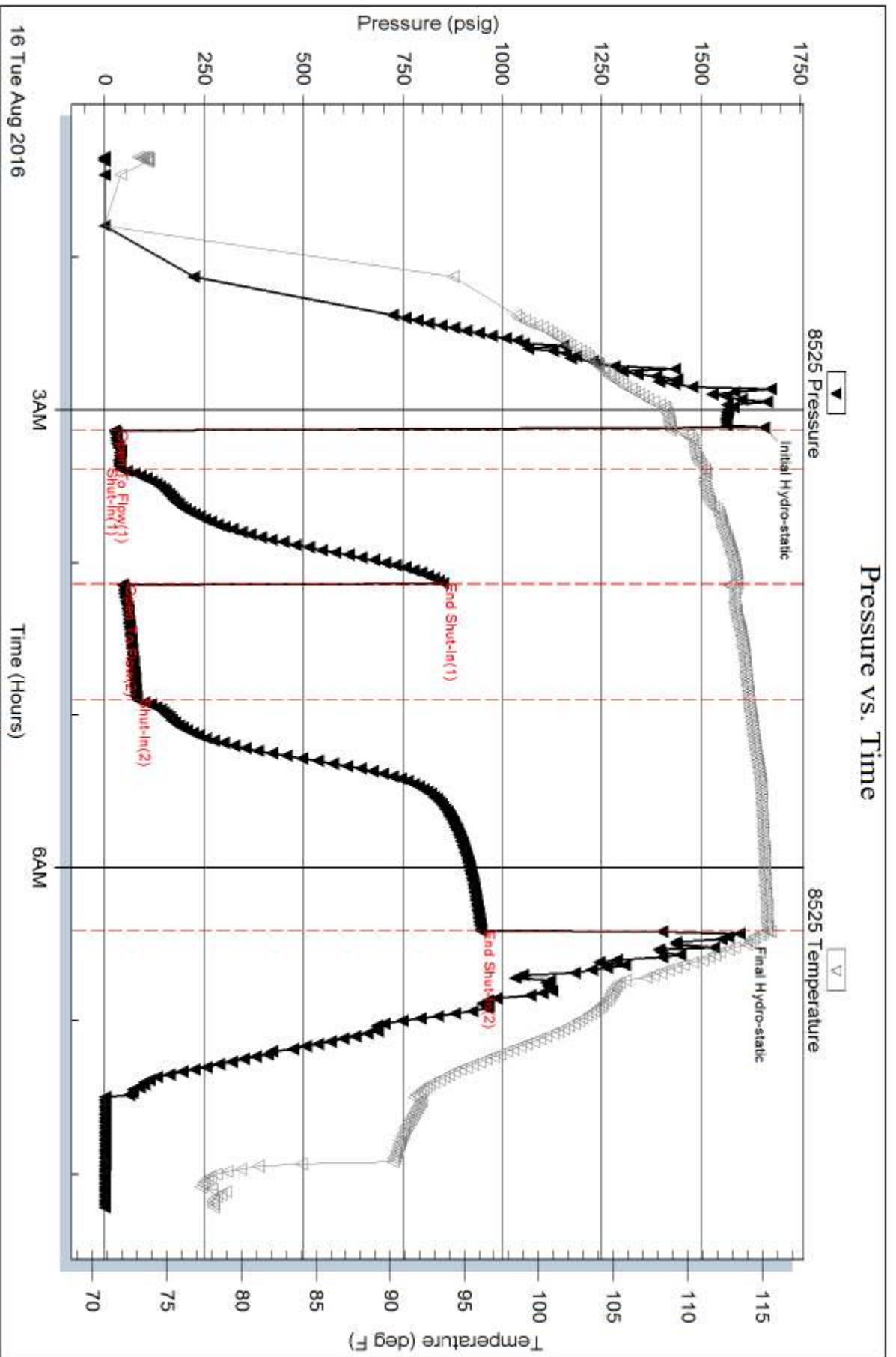
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

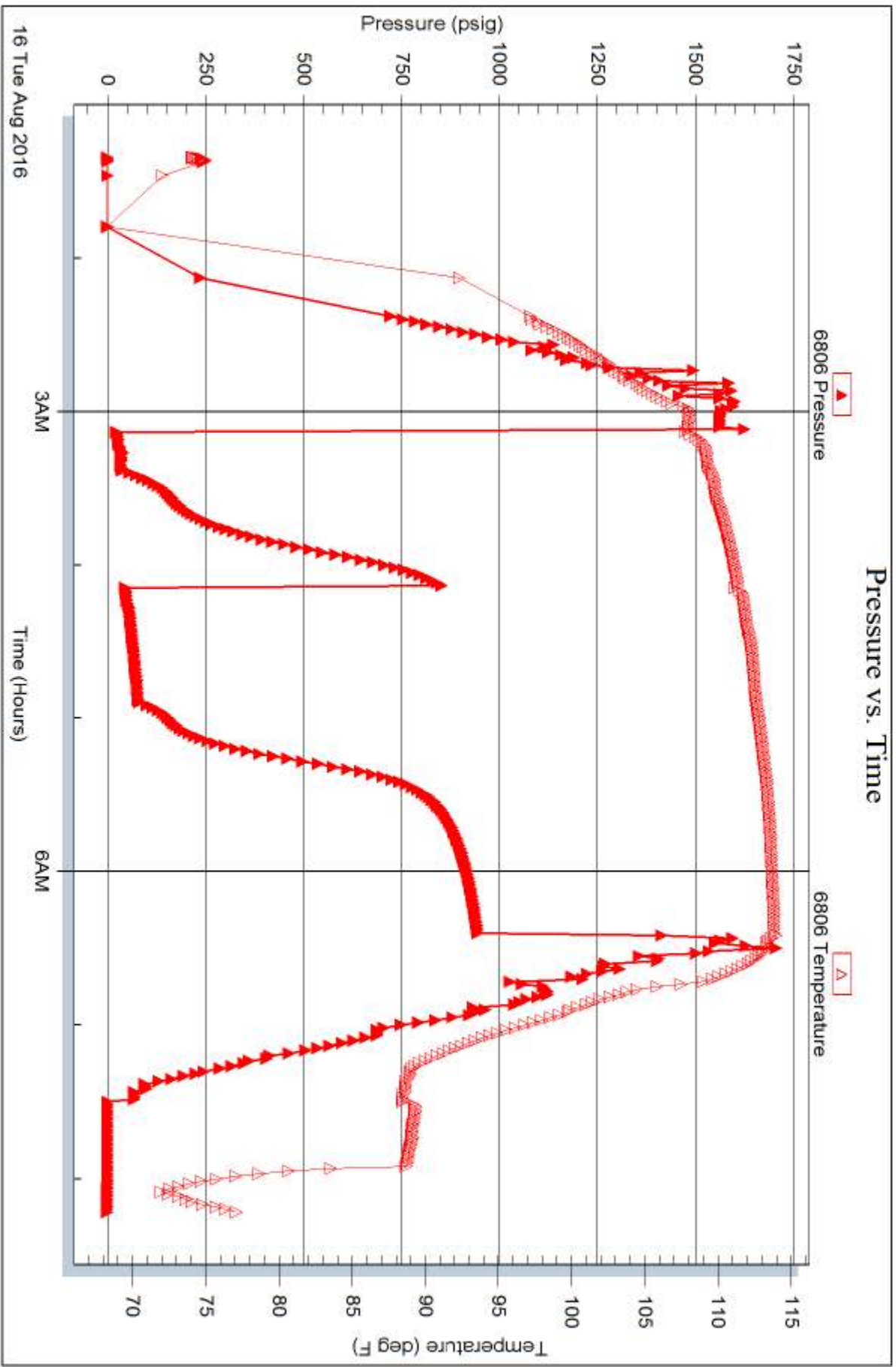


Serial #: 6806

Outside Herman L Loeb

Lange 1

DST Test Number: 3





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	08/28/2016
INVOICE NUMBER			
92209629			

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 Lange 1
 O LOCATION
 B COUNTY Sumner
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

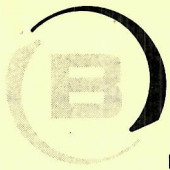
6076 / 6938 / LANGE #1

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40960529	86779		Net - 30 days	09/27/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 08/12/2016 to 08/12/2016				
0040960529				
171813822A Cement-New Well Casing/Pi 08/12/2016 Cement 8 5/8 Surface				
60/40 POZ	250.00	EA	5.40	1,350.00 T
Celloflake	63.00	EA	1.66	104.89 T
Calcium Chloride	645.00	EA	0.47	304.76 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	72.00	72.00
"Unit Mileage Chg (PU, cars one way)"	80.00	MI	2.03	162.00
Heavy Equipment Mileage	160.00	MI	3.38	540.00
"Proppant & Bulk Del. Chgs., per ton mil	860.00	EA	1.13	967.50
Blending & Mixing Service Charge	250.00	BAG	0.63	157.50
Plug Container Util. Chg.	1.00	EA	112.50	112.50
Depth Charge; 0-500'	1.00	EA	450.00	450.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	78.76	78.76

PAID
69835
 SEP 08 2016
 SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,299.91
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	123.18
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,423.09
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 13822 A

DATE _____ TICKET NO. _____

DATE OF JOB: 8/12/16		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: Herman Loeb LLC		LEASE: Large		WELL NO.: 1						
ADDRESS		COUNTY: Sumner		STATE: KS						
CITY		STATE		SERVICE CREW: Scott, Mike, Dave						
AUTHORIZED BY: [Signature]		JOB TYPE: 8 3/8 Surface - 2 Well								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
86779	.25					ARRIVED AT JOB	8/12/16	AM	PM	5:30
19918	.25					START OPERATION	8/12/16	AM	PM	6:15
						FINISH OPERATION	8/12/16	AM	PM	6:30
						RELEASED	8/12/16	AM	PM	7:00
						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	
CP103	60/40 P02	SK	250		3000.00	
CC102	Cellulose	lb	63		233.10	
CC109	Calcium Chloride	lb	645		677.25	
CF153	Wooden Cement Plug 8 3/8	EA	1		160.00	
L100	Light Mileage Charge Pickup	MI	80		360.00	
L101	Heavy Equipment Mileage	MI	160		1200.00	
E113	Prod & Bulk Delivery Fee Milk	TM	860		2150.00	
CF200	Depth Charge 0-500'	4b	1		1000.00	
CF240	Blending & Mixing Charge	SK	250		350.00	
CF304	Plug Containers	Tot	1		250.00	
5003	Service Supervisor	EA	1		175.00	
					SUB TOTAL	9,555.35
					SERVICE & EQUIPMENT	%TAX ON \$
					MATERIALS	%TAX ON \$
					TOTAL	4,299.91

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		4,299.91

SERVICE REPRESENTATIVE: [Signature]	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
-------------------------------------	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>Herman L Lorb LLC</i>		Lease No.		Date <i>8/12/16</i>	
Lease <i>Land</i>		Well # <i>1</i>			
Field Order # <i>15827A</i>	Station <i>Pratt KS</i>	Casing <i>8 5/8</i>	Depth	County <i>Sumner</i>	State <i>KS</i>
Type Job <i>8 5/8 Surface Pipe</i>		Formation <i>CNA</i>		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>							5 Min.
Depth	Depth	From	To	Pre Pad	Max		
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Lanny</i>			Station Manager <i>Kevin Goodley</i>			Treater <i>Scott Craves</i>		
Service Units	<i>58950</i>	<i>19889</i>	<i>78482</i>	<i>19918</i>	<i>86779</i>			
Driver Names	<i>Scott</i>	<i>Mike</i>	<i>Darin</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:30</i>					<i>On Location Safety Meeting Rig up</i>
<i>6:00</i>					<i>Break Circulation</i>
<i>6:14</i>	<i>250</i>			<i>5</i>	<i>Dump H₂O spacer</i>
<i>6:15</i>	<i>300</i>		<i>3</i>	<i>6</i>	<i>Min 250 SKS - 60/40 POT</i>
<i>6:25</i>	<i>0</i>		<i>53.8</i>		<i>Shut down</i>
<i>6:26</i>	<i>200</i>			<i>6</i>	<i>Release Plug start displacement</i>
<i>6:30</i>	<i>100</i>		<i>17</i>		<i>Shut down</i>
					<i>Job complete</i>
					<i>PRC. CEMENT TO PIT</i>



PAGE 1 of 1	CUST NO 100758	YARD # 1718	INVOICE DATE 09/02/2016
INVOICE NUMBER 92216149			

Pratt (620) 672-1201

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

J LEASE NAME — Lange 1
 O LOCATION
 B COUNTY — Sumner
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

ACCOUNTS PAYABLE

6076 / 6438 / LANGE

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40961413	19843		Net - 30 days	10/02/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 08/19/2016 to 08/19/2016				
0040961413				
171813521A Cement-New Well Casing/Pi 08/19/2016				
Cement 5 1/2" Longstring				
50/50 POZ	300.00	EA	5.28	1,584.00 T
Celloflake	63.00	EA	1.78	111.89 T
Gypsum	1,050.00	EA	0.36	378.00 T
FLA-322	105.00	EA	3.60	378.00 T
Gilsonite	1,500.00	EA	0.32	482.40 T
Mud Flush	1,000.00	EA	0.72	720.00 T
KCL Potassium Chloride	576.00	EA	0.72	414.72 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	192.00	192.00
"Cmt. Shoe Packer Type, 5 1/2" (Blue) "	1.00	EA	1,344.00	1,344.00
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	52.80	633.60
"5 1/2" Basket (Blue)"	2.00	EA	139.20	278.40
"Unit Mileage Chg (PU, cars one way)"	80.00	MI	2.16	172.80
Heavy Equipment Mileage	160.00	MI	3.60	576.00
"Proppant & Bulk Del. Chgs., per ton mil	1,008.00	EA	1.20	1,209.60
Blending & Mixing Service Charge	300.00	BAG	0.67	201.60
Plug Container Util. Chg.	1.00	EA	120.00	120.00
Depth Charge; 3001-4000'	1.00	EA	1,036.80	1,036.80
"Service Supervisor, first 8 hrs on loc.	1.00	EA	84.00	84.00

PAID
70042
 SEP 20 2016
SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,917.81
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	284.83
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,202.64
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 13521 A

DATE _____ TICKET NO. _____

DATE OF JOB 8/19/16	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 Hermine L Lorb, LLC	LEASE Lange	WELL NO. 1							
ADDRESS	COUNTY Sumner	STATE KS							
CITY	STATE	SERVICE CREW Scott, Mike, Brian							
AUTHORIZED BY Cyrus Payne	JOB TYPE: 5/8" bore string - CIVIL								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
19945	1.2					ARRIVED AT JOB	8/19/16	AM PM	7:30
19948	.3					START OPERATION	8/19/16	AM PM	17:45
						FINISH OPERATION	8/19/16	AM PM	8:00
						RELEASED	8/19/16	AM PM	3:00
						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: X [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
21104	50/150 PDC	ST	250		2750.00
21105	50/150 PDC	ST	50		550.00
21106	Cellulose	lb	65		233.10
21107	Compsum	lb	150		787.50
21108	FLA 520	lb	105		787.50
21201	5/8" Bore	lb	1500		1005.00
2700	100 lb. Potassium Chloride	lb	576		864.00
21109	Break down Plug & Bottle	EA	1		400.00
21101	Cartridge Short Packer Type	EA	1		2800.00
21102	Trubel Vets 5/8"	EA	12		1370.00
21103	2 1/2" Packer	EA	2		580.00
21104	2 1/2" Packer	EA	1000		1500.00
21105	1 1/2" 2 1/2" pack up	M	80		360.00
21106	1 1/2" 2 1/2" pack up	M	100		1200.00
21107	1 1/2" 2 1/2" pack up	M	1009		2520.00
21108	Drip Charge 500 - 1/4" dia	EA	1		210.00
21109	1 1/2" 2 1/2" pack up	ST	300		480.00
21110	Fluorocarbon	TOL	1		250.00
3000	Service Expense	EA	1		175.00
SUB TOTAL					20662.10

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		9,917.81

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

Customer <i>Herman L Loeb</i>	Lease No.	Date <i>8/19/16</i>
Lease <i>Longe</i>	Well # <i>1</i>	
Field Order #/ <i>12571A</i>	Station <i>Pratt KS</i>	Casing $\frac{1}{2}$ <i>5/8</i>
		Depth <i>3389</i>
Type Job <i>5/7 Long String</i>	Formation	County <i>Sumner</i>
		State <i>KS</i>
		Legal Description

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>3385</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>81</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>2000</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>Taylor</i>	Station Manager <i>Kevin Gaidley</i>	Treater <i>Scott Graves</i>
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Service Units	<i>38950</i>	<i>84981</i>	<i>14843</i>	<i>14918</i>	<i>14918</i>				
Driver Names	<i>Scott Dorin</i>		<i>Dorin</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7:50</i>					<i>On location Safety Meeting Rld up</i>
<i>9:30</i>					<i>Run float equipment basket 4/10</i>
					<i>Control 12, 3, 4, 5, 10, 15, 20, 25, 30, 35, 40</i>
<i>10:40</i>					<i>Break circulation #51 20 min</i>
<i>12:00</i>					<i>Break circulation on bottom</i>
<i>12:45</i>					<i>Drop ball for Packer</i>
<i>11:10</i>	<i>2100</i>				<i>Pressure up set packer</i>
<i>1:10</i>	<i>200</i>			<i>5</i>	<i>Pump H₂O spacer</i>
<i>1:11</i>	<i>200</i>		<i>5</i>	<i>5</i>	<i>Pump 1000 gallons mud flush</i>
<i>1:17</i>	<i>200</i>		<i>24</i>	<i>5</i>	<i>Pump H₂O spacer</i>
<i>1:18</i>	<i>200</i>		<i>5</i>	<i>5</i>	<i>Mix 750 sks 50/50 POC</i>
<i>1:31</i>			<i>60</i>		<i>shut down</i>
<i>1:32</i>					<i>wash pump + lines clean</i>
<i>1:33</i>	<i>0</i>			<i>5</i>	<i>Release Plug Start Displace</i>
<i>1:45</i>	<i>150</i>		<i>43</i>	<i>5</i>	<i>lift pressure</i>
<i>1:51</i>	<i>700</i>		<i>27</i>	<i>3.5</i>	<i>Reduce Rate</i>
<i>1:54</i>	<i>800</i>		<i>11.5</i>	<i>3.5</i>	<i>Plug landed</i>
<i>1:54</i>	<i>1500</i>				<i>Pressure up on Plug</i>
<i>2:00</i>					<i>Release Pressure NO Returns</i>
<i>2:05</i>	<i>0</i>		<i>8</i>	<i>3</i>	<i>Plug Run hole 30 sks 50/50</i>
<i>2:10</i>	<i>0</i>		<i>6</i>	<i>3</i>	<i>Plug Mowse hole 20 sks 50/50</i>
					<i>Job Complete</i>