



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1243542
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: _____



1243542

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	SOUTHBOROUGH 1
Doc ID	1243542

Tops

Name	Top	Datum
Topeka	2022	-705
Heebner Shale	2558	-1241
Toronto	2572	-1255
Stalnaker Sand	2914	-1597
Kansas City	3181	-1864
Stark Shale	3310	-1993
Swope	3344	-2027
Hertha	3360	-2043
Marmaton	3484	-2167
Cherokee Shale	3621	-2304
Miss (reworked)	3822	-2505
Mississippian LS	3838	-2521
Kinderhook Shale	4194	-2877
Woodford Shale	4243	-2926
Simpson Sand	4260	-2943

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Southborough #1
Location: 890' FNL & 1650' FEL, Sec. 2-T31S-R3W, Sumner Co., KS.
Licence Number: 15-191-22768-0000 Region: Moyer NW
Spud Date: 1/16/2015 Drilling Completed: 1/24/2015
Surface Coordinates: 890' FNL & 1650' FEL, Sec. 2-T31S-R3W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 1308' K.B. Elevation (ft): 1317'
Logged Interval (ft): 2000' To: 4271' Total Depth (ft): 4271'
Formation: Simpson Fm. at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 2570'; Chemical Gel 2570' to 4271'

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(Stalnaker Sand) 2930' - 2984'(Corrected Depths to Log) Test Times 15"-45"- OUT, IFP Strong Blow BOB/15 Sec., FFP NONE, 6" Blowback on SI; REC: 285' GCWM(2%G, 28%W, 70%M), 189' GCWM(5%G, 35%W, 60%M), 1512' SW(CI 150,000 - MudCo. corrected, Mud 3500); IFP 879-1090#, ISIP 1148#, FFP NONE, FSIP NONE, IHP 1433#, FHP 1389#, BHT 110 Deg. F.

DST #2(Upper Kansas City) 3210' - 3262'(Corrected Depths to Log) Test Times 60"-60" - OUT; IFP Strong Blow BOB/16", FFP NONE, No Blowback on SI; REC: 90' Drlg. Mud, 126' MSW(76%W, 24%M), 225' MSW(88%W, 12%M) (CI 83,000 - MudCo. corrected, Mud 5000); IFP 41-220#, ISIP 1079#, FFP NONE, FSIP NONE, IHP 1603#, FHP 1633#, BHT 111 Deg. F.

DST #3(Mississippi Chert/Lime) 3832' - 3860'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/15 Sec., FFP Gas to Surface in 30 Sec., Gauged 83.1 MCFG(38# on a 0.25" Choke) in 45" of FFP, no Blowback on SI's; REC: 80' G&OCMW(24%G, 4%O, 40%W, 32%M) (CI 26,000 - MudCo. corrected, Mud 4000); IFP 28-44#, ISIP 1483#, FFP 22-87#, FSIP 1467#, IHP 1962#, FHP 1883#, BHT 121 Deg. F.

Comments

1/16/15 MIRU Sterling Drilling Co. Rig #4, Spud at 4:45 PM.; 1/17/15 TD. 263' - WOC; 1/18/15 Drilling at 1400'; 1/19/15 TD. 2517' - Mud Pump Repairs; 1/20/15 TD. 2982' - TOH with DST #1; 1/21/15 TD. 3260' - TIH for DST #2; 1/22/15 Drilling at 3512'; 1/23/15 TD. 3858' - Short Trip for DST #3; 1/24/15 Drilling at 4130', Reached TD. 4271' at 3:30 PM; 1/25/15 RTD. 4271', LTD. 4274' - LDDP for Setting 4 1/2" Production Casing.

Set new 8 5/8"(24#) Surface Casing at 260' KB. with 250 sacks of Cement(Basic Energy Services). Cement did Circulate. PD. at 2:00 AM. on 1/17/15.

Set new 4 1/2"(10.5#) Production Casing at 3992' with 200 sacks of "Loeb Blend" Cement(Basic Energy Services). PD. at 3:00 PM. on 1/25/15.

Surveys: 1.0 Degree at 263'(Surface Casing); 0.25 Deg. at 2517'(Bit Trip); 1.0 Deg. at 2982'(DST #1); 1.50 Deg. at 3260'(DST #2); 0.75 Deg. at 3858'(DST #3); 0.75 Deg. at 4271' RTD.


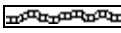
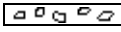
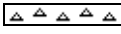
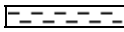







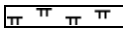
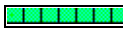
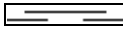
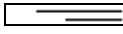
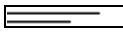



Pipe Strap at 2517'(Bit Trip): Strap 0.66' Short to the Board, no Correction made to the Board.

After review of the Nabors openhole logs, DST data, and positive indications of commercially recoverable amounts of hydrocarbons, the operator elected to set new 4 1/2" Production casing for completion in the Mississippian.








































































NOTE: This log was shifted downward by 2' - 3' for correlation purposes with the Nabors logs.

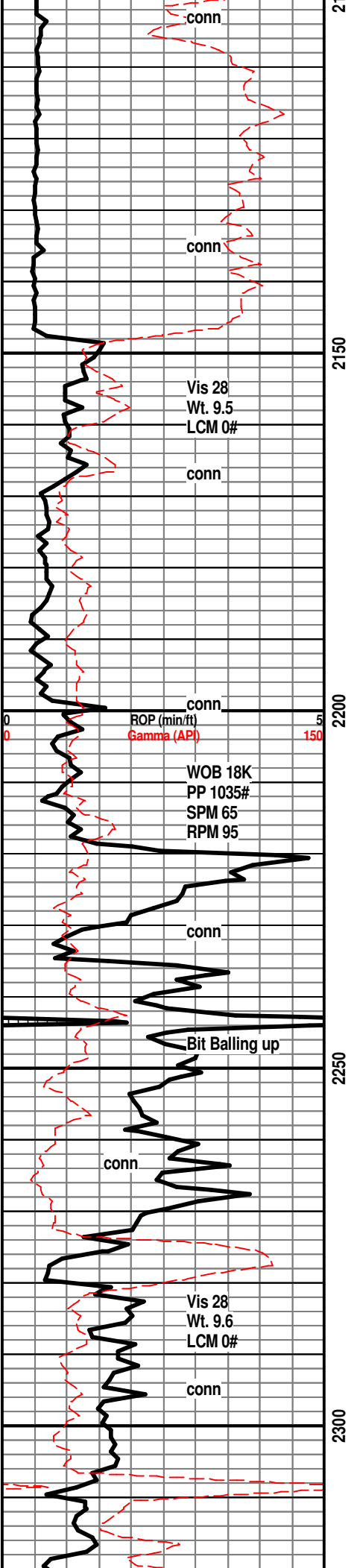
LOG TOPS: Topeka 2022(-705), Heebner Shale 2558(-1241), Toronto 2572(-1255), Iatan Lmst. 2870(-1553), Stalnaker Sand 2914(-1597), Kansas City 3181(-1864), Stark Shale 3310(-1993), Swope 3344(-2027), Hertha 3360(-2043), Marmaton 3484(-2167). Cherokee Shale 3621(-2304), Reworked Miss. 3822(-2505), Miss. Lmst. 3838(-2521), Kinderhook Shale 4194(-2877), Woodford Sh. 4243(-2926), Simpson Sand 4260(-2943).

ROCK TYPES

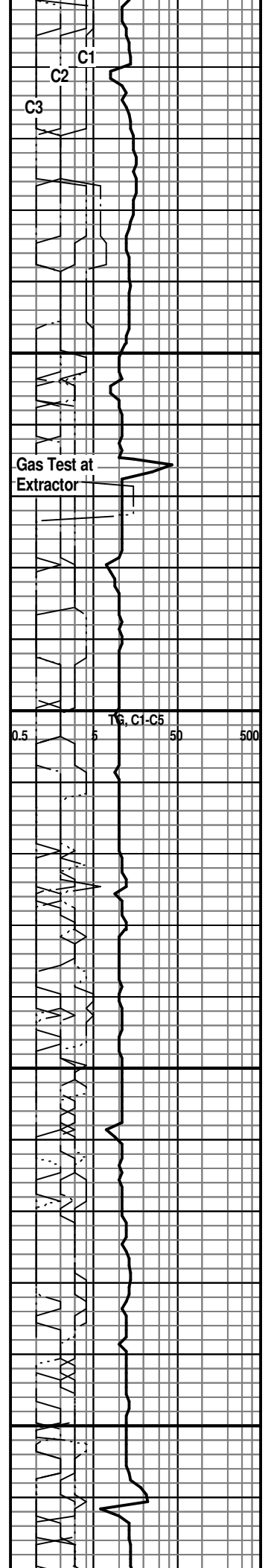
 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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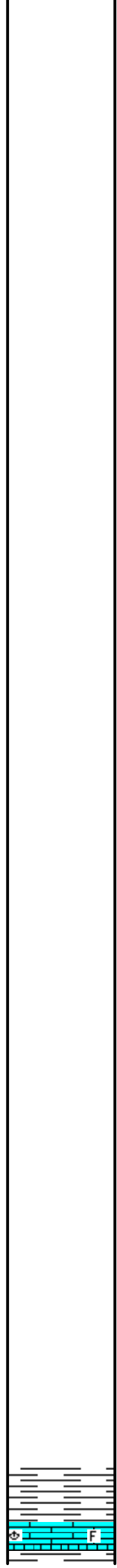
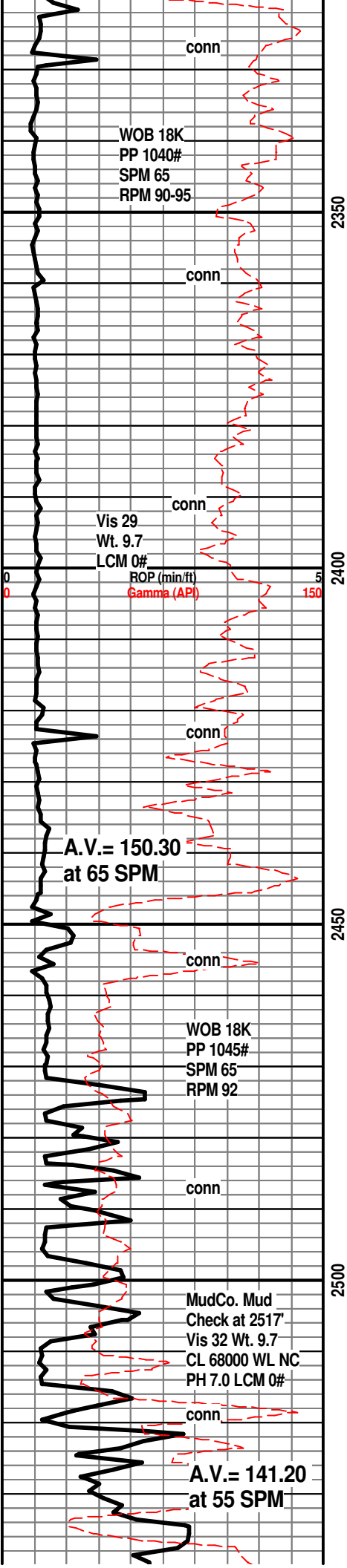
ACCESSORIES

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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LOWER TOPEKA 2148(-831)



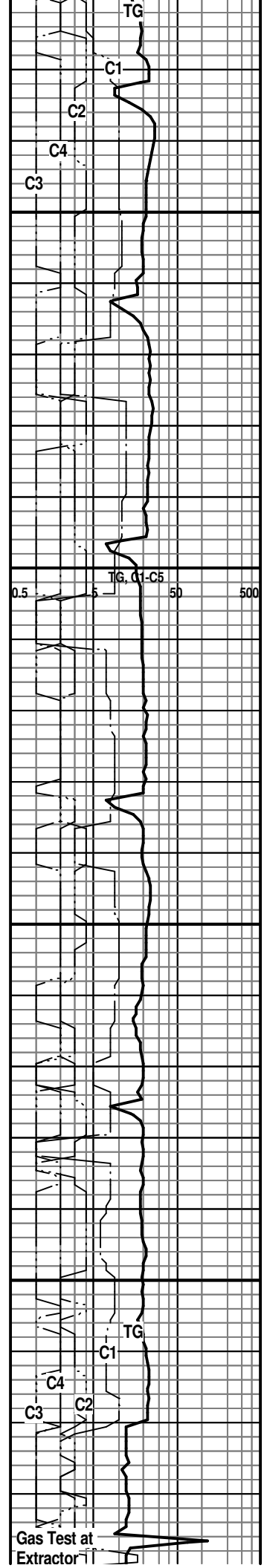


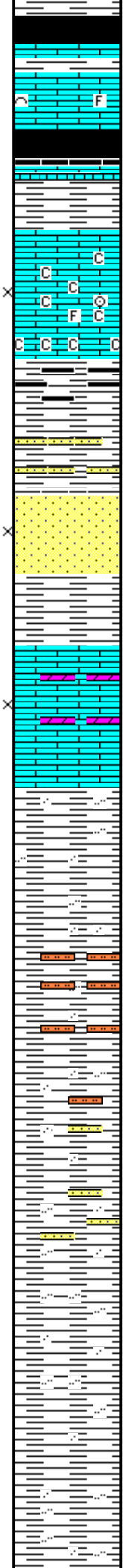
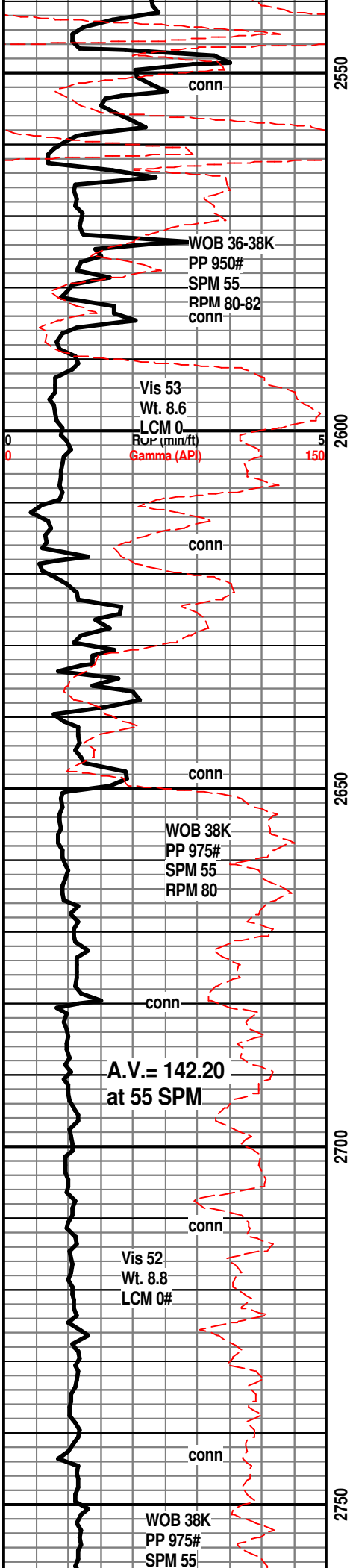
BIT TRIP / PULL PDC BIT AT 2517' / SURVEY / STRAP PIPE

Start 10' Samples at 2520'
 SH; med gy, platy

LM; med brn, foss ip, tite

NOTE: Drilling With Downer Bit





NOTE: Drilling with Button Bit
SH; dk gy - blk, platy, trc gas bubbles

LM; med to dk gy, foss ip, v. hd

HEEBNER SHALE 2558(-1241)
SH; blk, carb ip, platy
LM; med to dk brn, dense

Displace Mud System at 2570'
TORONTO 2572(-1255)
LM; off wh, buff, cream, fxln w/much soft chalk and chalky mtz, occ fair interxln por, minor foss mat, dull yel min fluor, no stn or odor, ns.

SH; dk gy, blk, platy

SH; med gy, silty to sandy, interbdd hd vf gr qtz ss, some mica

SS; lt gy, lt gy brn, most f gr qtz, clusters, mica ip, fair to gd intergran por, subang - subrng gr, no fluor, no gas kick

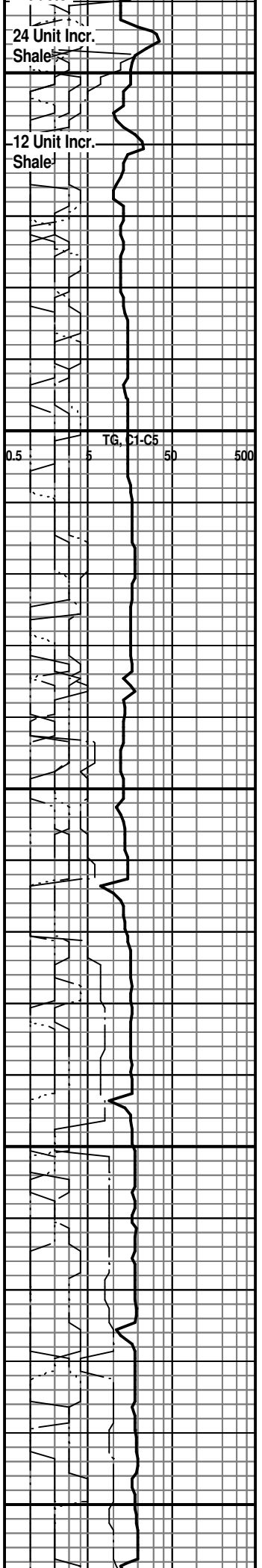
LM; tan to lt brn, foss ip, f to med xln w/fair interxln por, rarely sucrosic text, lt/med yel min fluor, no stn, ns.

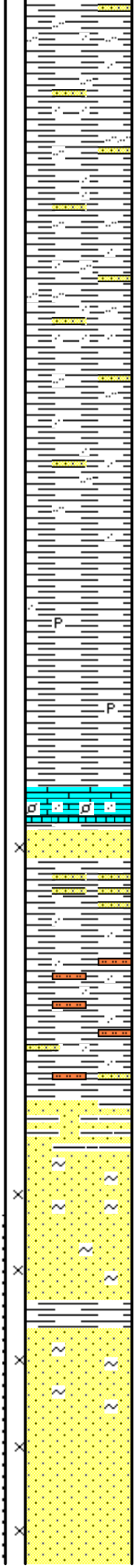
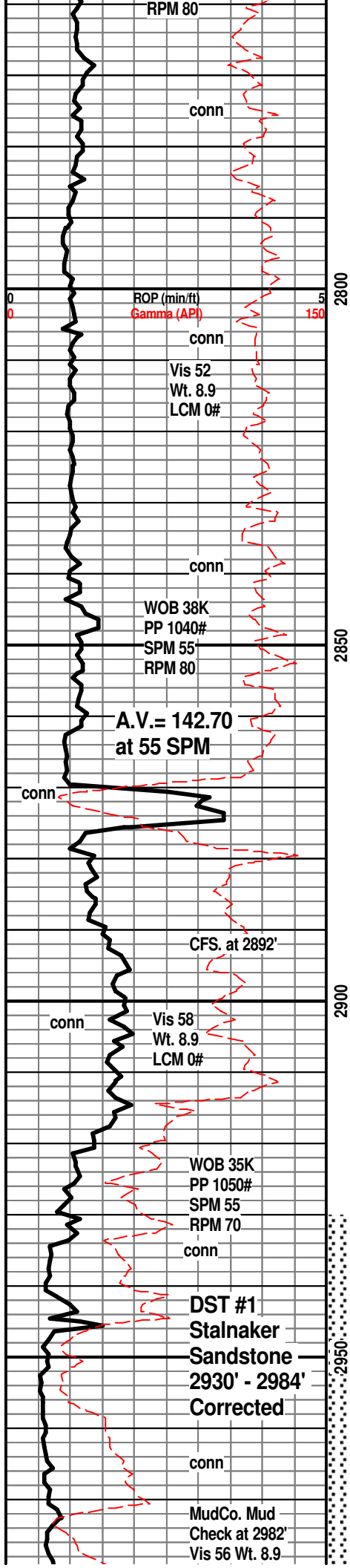
SH; lt to med gy, silty to sandy, platy

SH; lt to med gy, silty to sandy, interbdd thin sltst bds

SH; lt to med gy, silty to sandy, platy, interbdd vf to f mica qtz clusters, tite

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





SH; lt to med gy, silty to sandy, platy, interbdd vf to f gr qtz

SH; lt to med gy, platy, sandy w/occ mica ss strngs.

SH; med gy, platy, decr. silt/sand content, most smooth, rare pyr

IATAN LMST. 2870(-1553)
LM; med brn, dense, w/foss to sandy lmst/lmy f gr qtz ss, most dense, no fluor, no vis gas

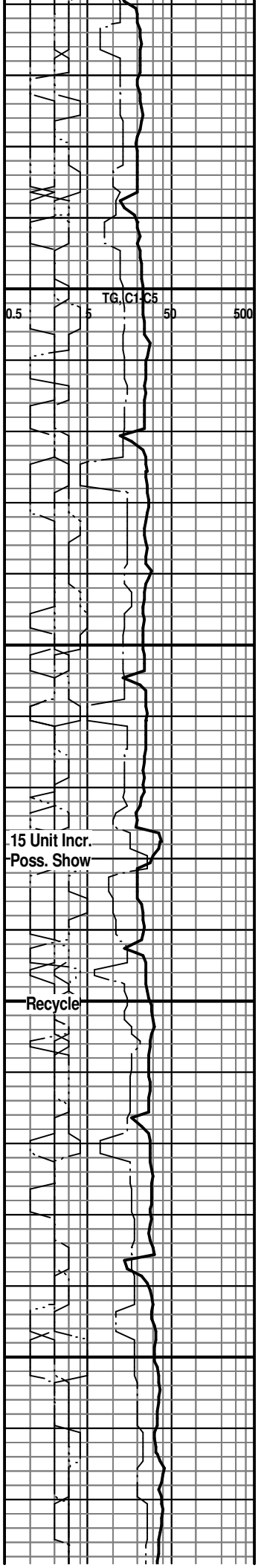
UPPER STALNAKER SS 2876(-1559)
SS; clr, lt gy, most f gr qtz, clusters, most well cem, few fri clusters w/fair intergran por, no vis fluor, no stn, questionable gas bubbles, interbdd sandy sh and tite vf gr ss

SH & SLTST; lt gy, mica, v. firm, interbdd sltst and sandy sh.

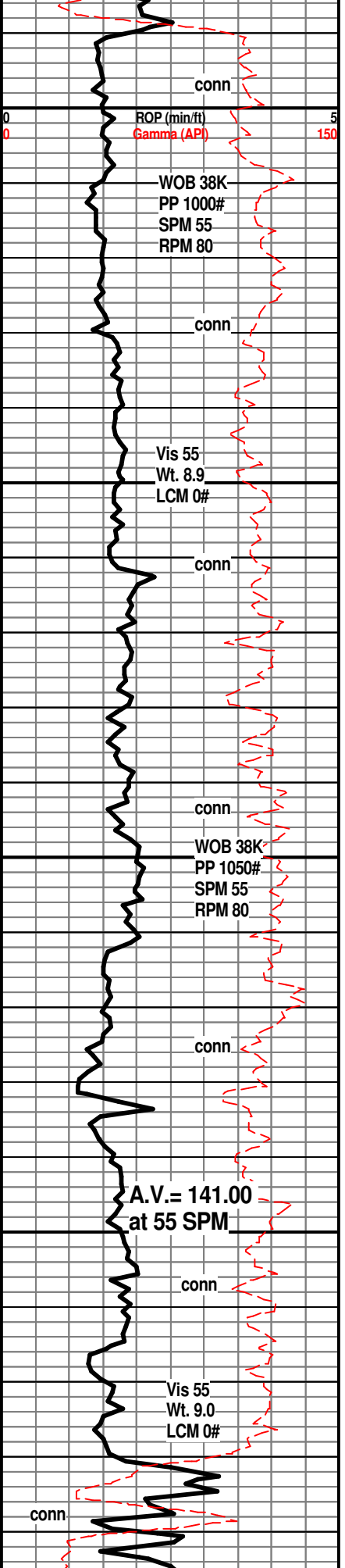
STALNAKER SS 2914(-1597)
SS; lt gy, occ clr, vf to f gr qtz, clusters, most fri w/fair to gd intergran por, minor grn glau, occ mica, calc, subang - subng gr, no fluor, no stn or odor, no gas kick, appears to be fairly good reservoir sand

SH; lt to med gy, silty w/interbdd sltst, platy, occ mica clusters, most w/gd intergran por, occ mica and glau, clean, fri, no fluor, no stn or odor, ns, appears to be good reservoir sand

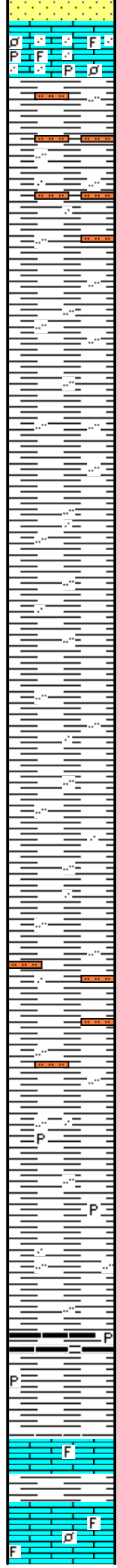
SS; clr, lt gy, pred med gr qtz, clusters, subrnd to subang, fri, clean, most w/gd intergran por, no fluor, no stn, appears to be good reservoir sand



WL 8.8 CI 3500
PH 11.5 LCM 0#



3000
3050
3100
3150
0



DST #1: Stalaker Sand 2930' - 2984'

Corrected Depth to Log
LM; med brn, cse foss frags, sandy, pyr ip, tite

SH; lt gy, silty w/interbdd sltst, firm

SH; lt to med gy, silty, platy

SH; lt to med gy, silty to occ sandy, firm

SH; most med gy, firm, platy, occ silty

SH; lt to med gy, silty to occ sandy, interbdd sltst, platy

SH; lt to med gy, platy, silty ip, rare pyr

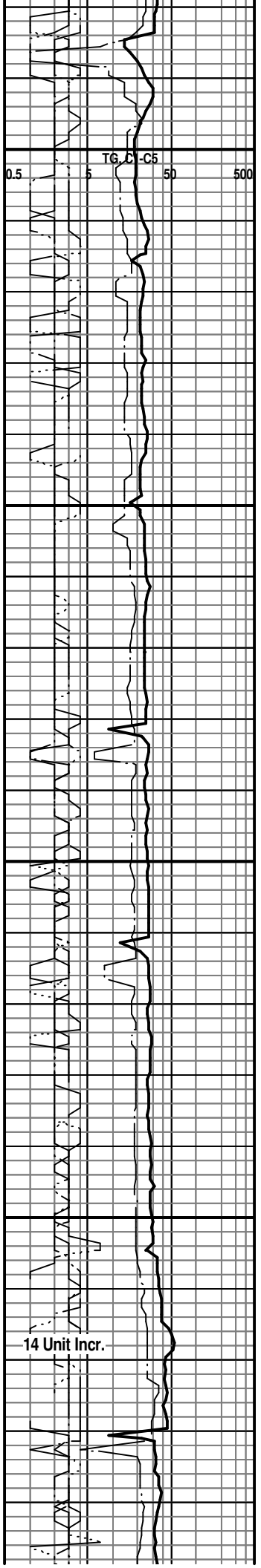
SH; med to occ dk gy/ gy brn, some carb mat, occ pyr

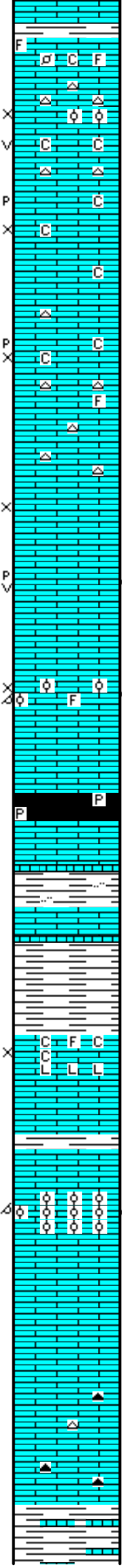
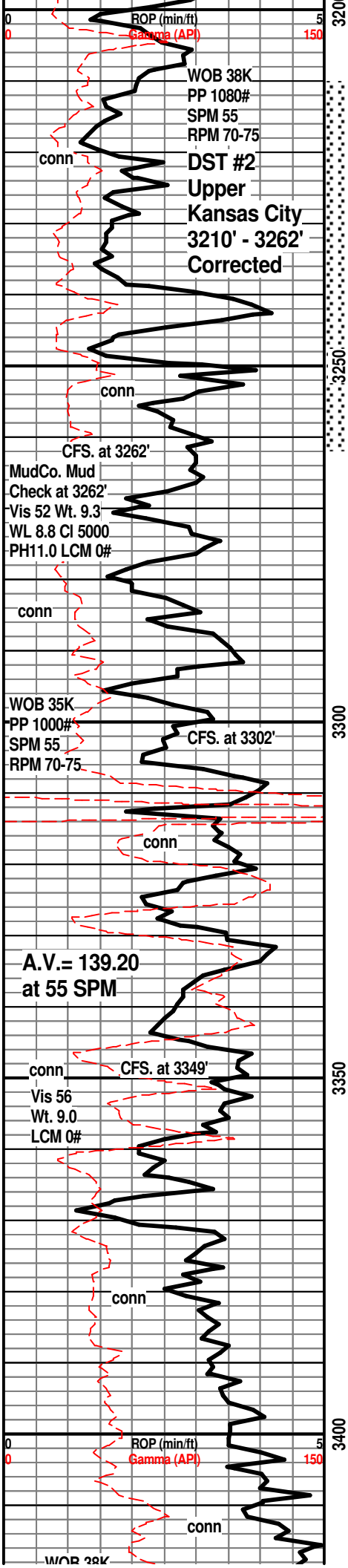
KANSAS CITY 3181(-1864)
LM; med brn, most micritic, rare foss, well cem, no fluor, no vis por, ns.

LM; tan to lt brn, buff, fxln w/scat foss mat, well cem, lt yel min fluor, no vis por, ns.

TG, C-C5
0.5 5 50 500

14 Unit Incr.





LM; tan to cream, off wh, foss, most well cem, trc chalky mtx, no vis por, no fluor, scat foss wh cht, ns.

LM; tan to cream, buff, off wh, fxln w/occ sucrosic text, fair interxln w/rare vugs, minor chalky mtx, trc oolitic lmst, no fluor, no stn or odor, ns.

LM; off wh, buff, fxln, soft ip, scat fair p-p and interxln por, occ spar calc, chalky mtx ip, dull yel fluor, no stn or odor, ns.

LM; tan to cream, f to med xln, partly chalky mtx, fair p-p/interxln por, dull yel min fluor, no stn or odor, no gas kick

LM; med brn, most dense, rare foss mat, scat gy cht, no vis por, no fluor, ns.

DST #2: Upr. Kansas City 3210' - 3262' Corrected Depth to Log

LM; tan to lt brn, f to med xln, poor to fair interxln por, occ spar calc xtals, dull yel fluor, ns.

LM; lt brn, fxln, scat fair p-p and small vug por, med yel fluor, fair odor, few pcs w/spotted lt brn oil stn, most tite

LM; med brn, foss - partly oolitic, poor to fair interpart/occ oomoldic por, trc med brn stn, v. spotted lt yel fluor, no odor, no gas kick, very weak show

STARK SHALE 3310(-1993)

SH; v. dk brn, blk, soft ip, occ pyr

LM; med to dk brn, dense, blocky, tite

SH; med gy, rare gy grn, silty ip, interbdd thin lmst strng.

SWOPE 3344(-2027)

LM; off wh, buff, tan, fxln w/much soft chalk and chalky mtx, foss ip, poor interxln por, dull yel min fluor, no vis stn/odor, no gas kick, barren

HERTHA 3360(-2043)

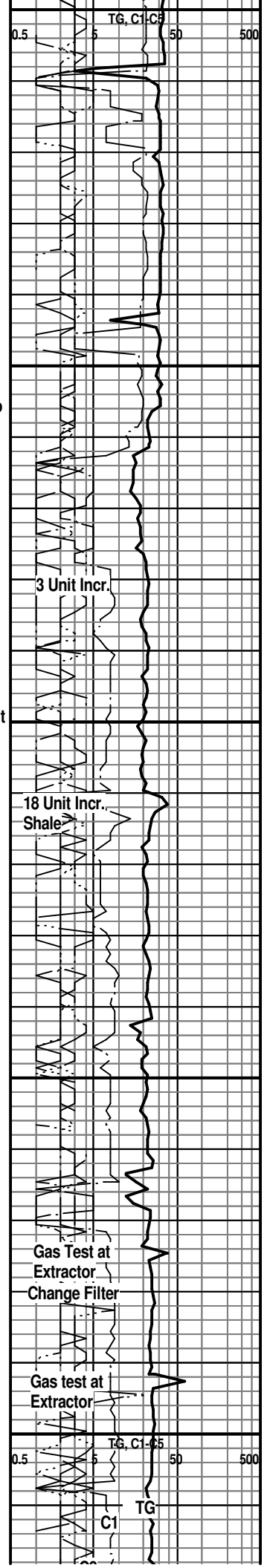
LM; tan to lt brn, oolitic, mostly poor oomoldic por, 2-3 pcs. w/spotted lt brn oil stn, no odor, v. dull yel fluor, looks dead, no apparent gas kick

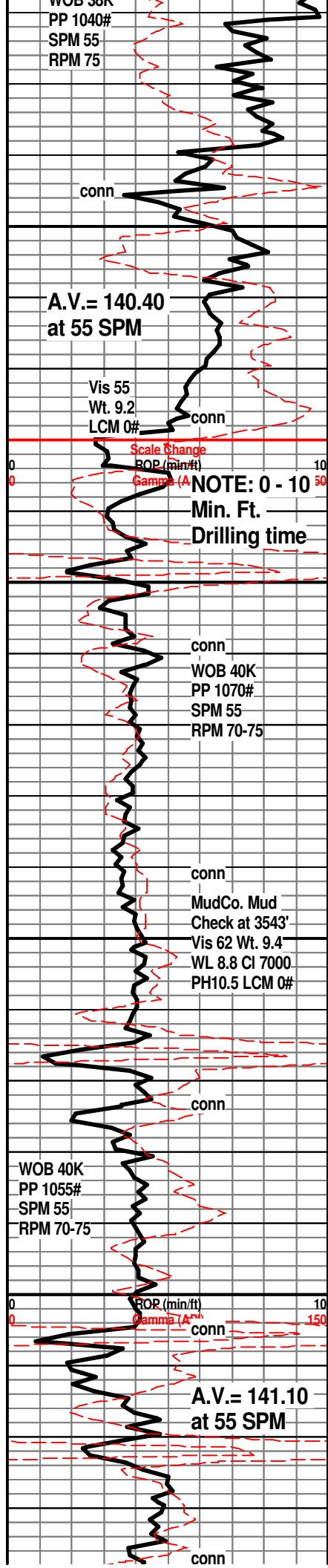
LM; lt to med brn, dense, some litho, no vis por, no fluor, ns.

LM; dk brn, dk gy brn, dense, blocky, scat brn/tan cht, tite

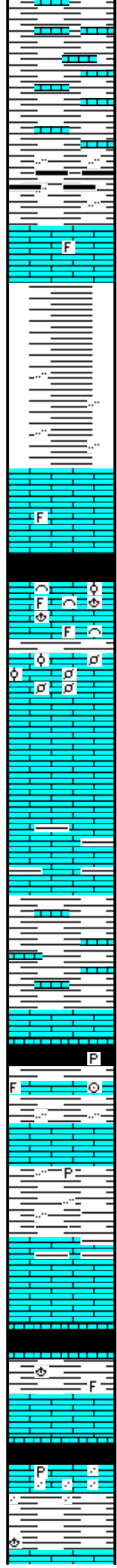
BASE KANSAS CITY 3410(-2093)

SH; med gy, gy brn, lmv ip, interbdd blk lmv sh





3450
3500
3550
3600



SH; lt grn, soft, silty ip, some varic. sh

LM; tan to lt gy brn, foss ip, most dense, blocky, no vis por, no fluor, ns.

SH; varic, grn, gy, brn, rust red, platy, some sticky

SH; varic, much grn, gy grn, silty ip.

MARMATON 3484(-2167)

LM; tan to lt brn, buff, rare foss, most micritic, no vis por, lt yel min fluor, ns.

SH; blk, platy, carb ip.

LM; tan to lt brn, v. foss, well cem, lt - med yel min fluor, scat spar calc cmt, no vis por, ns.

LM; lt to med brn, foss w/occ small pellets/oils, well cem, bcm dense micritic lmst w/no fluor, no vis por, ns.

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

SH; med to dk gy brn, lmy w/interbdd dense shaly lmst.

SH; blk, carb ip, soft to blocky, trc pyr

LM; lt to med brn, foss ip, hd, blocky, no vis por, scat dull yel min fluor, ns.

LM; lt gy, buff, firm, some gritty text, occ pyr, no vis por, lt yel min fluor, ns.

LM; med gy, gy brn, argil, interbdd lmy sh

SH; blk, carb, gassy ip.

SH; med gy, gy gn, platy, foss ip.

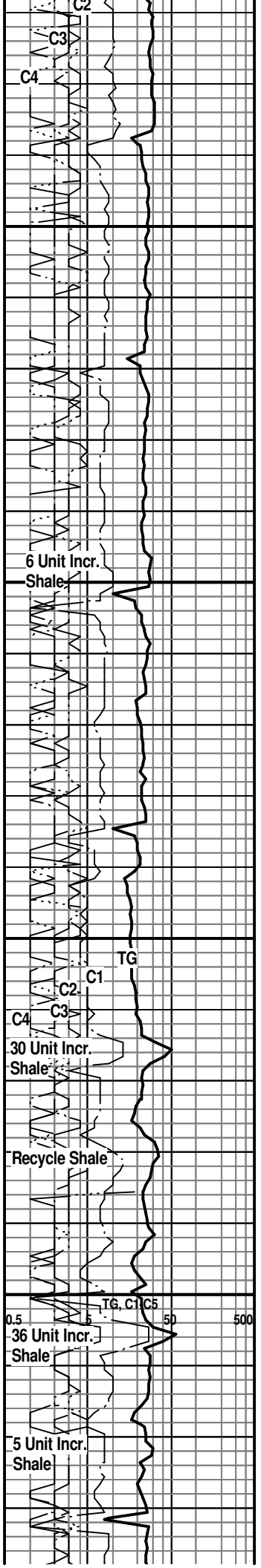
LM; med brn, v. hd, micritic, no vis por/fluor, ns.

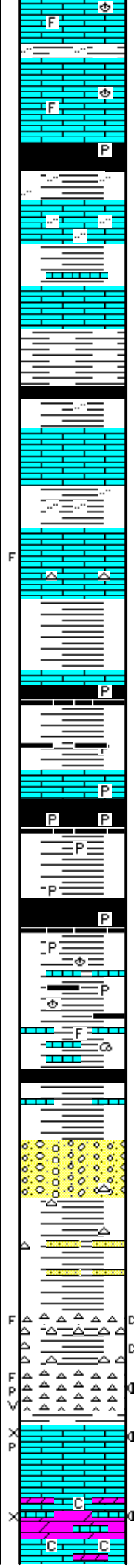
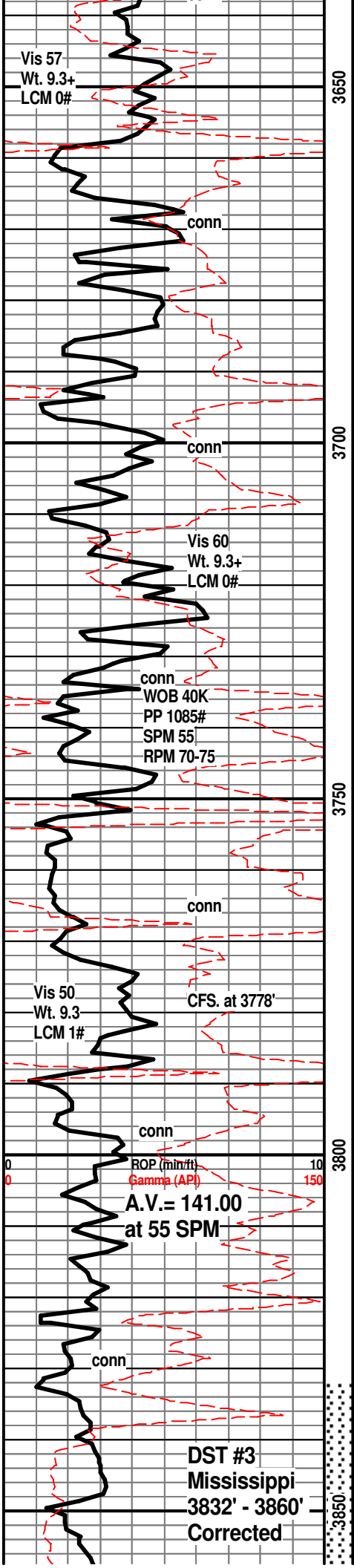
CHEROKEE SHALE 3621(-2304)

SH; blk, carb ip, platy

LM; lt brn, tan, fxln to sandy, some vf gr qtz in lmst mtx, v. hd, pyr ip, tite

LM; lt to med brn, foss ip, well cem, lt yel min fluor, no





LM; lt to med brn, foss ip, well cem, lt yel min fluor, no vis por, no stn or odor, ns.
SH; grn, silty ip, firm

LM; med brn, micritic, blocky, no vis por, no lt yel min fluor, rare well cem foss, ns.
SH; blk, pyr, blocky
SH; varic, grn, maroon, brn, silty ip.
LM; med brn, blocky, hd, some gritty text - silty ip, tite

LM; med brn, tan, fxln to micritic, hd, lt yel min fluor, ns.
SH; med gy, varic, platy

LM; tan to lt brn, hd, blocky, micritic, most w/lt yel min fluor, no stn or odor, ns.
SH; varic, platy, occ silty

LM; lt to med brn, hd, trc brn cht, most dense - micritic, occ fracs fld w/spar calc, tite
SH; blk, carb ip, trc gas, pyr, trc coaly frags

SH; varic, grn, yel, brn, platy
LM; med gy brn, hd, some pyr

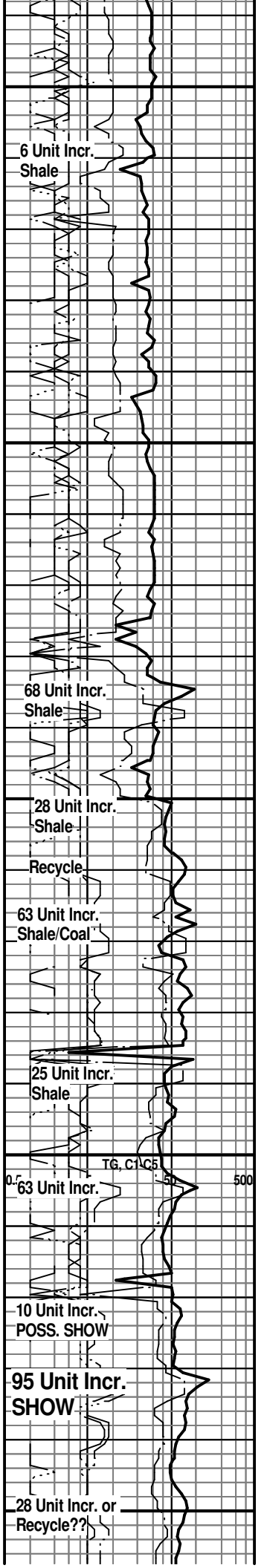
SH; varic, platy, interbdd blk carb sh and coal beds, abnt pyr ip.
COAL/SH; blk, pyr, trc gas, brittle

SH; varic, lmy ip w/thin lmy sh strngs, occ pyr, foss, scat carb mat.
SH; varic, platy to flakey

CONGL; off wh cht, cse gr grn ss, no vis stn, no fluor, interbdd gy to grn cse qtz gr in mostly varic shales

REWORKED MISS. 3822(-2505)
CHT; wh, off wh, foss ip, fresh and trip, med brn to blk stn, occ dead tar/gils, occ fracs w/p - p/vug por, fair odor, brite yel fluor, gas bubbles

MISSISSIPPI LMST. 3838(-2521)
LM; wh, off wh, cse xln, fair vug, p-p & interxln por, lt brn live stn, SSFO, few gas bubbles, faint odor, med yel fluor at top of zone
LM; off wh, tan, lt brn, cse xln w/interbdd dolomitic lmst & sucrosic dolo, fair interxln por, some chalky - soft, trc oil stn, no odor, no cut, no vis gas bubbles



conn CFS. at 3860'
 MudCo. Mud
 Check at 3860'
 Vis 49 Wt. 9.4
 WL 9.0 Cl 4000
 PH 10.5 LCM 3#

conn
 WOB 42K
 PP 1035#
 SPM 55
 RPM 75

conn

Vis 60
 Wt. 9.3
 LCM 2#

conn

conn
 WOB 42K
 PP 1040#
 SPM 55
 RPM 77

ROP (min/ft) 10
 Gamma (API) 150

conn
 Vis 57
 Wt. 9.3
 LCM 2#

A.V. = 141.00
 at 55 SPM

conn

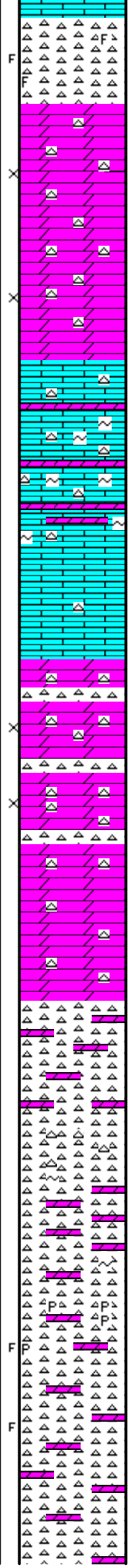
WOB 42K
 PP 1055
 SPM 55
 RPM 77

3900

3950

4000

4050



DST #3: Mississippi 3832' - 3860' Corrected Depth to Log

CHT; lt gy, foss ip, most fresh, occ weathered areas, dense, poss frags, no fluor, no vis stn, questionable odor, no apparent gas kick

DOL; lt brn, tan, cherty w/interbdd dolomitic cht, most well cem, rare dull yel fluor, poor to fair interxln por, ns.

DOL; lt brn, lt gy brn, sucrosic, interbdd gy cht, poor interxln por, no fluor, ns.

LM; lt gy brn, tan, dolomitic w/interbdd gy sucrosic lmy dolomite, occ cse xln lmst, most dense, scat gy cht, occ grn clay min. - glau, lt yel min flour thru, no vis stn, no odor, ns.

LM; med gy brn, dense, blocky, hd, rarely cherty

DOL; lt brn, off wh, very cherty, w/interbdd dolomitic cht, poor interxln por, no fluor, no vis stn, ns.

DOL; off wh, lt brn, fresh off wh cht w/much dolo, looks tite, no fluor, ns.

DOL CHT; lt gy, off wh, lt brn, hd, occ bands of cherty dolomite interbdd, no vis por, no fluor, ns.

DOL CHT; lt gy, off wh, fresh cht, hd, rare grn glau clay incl, dolomitic, no fluor, ns.

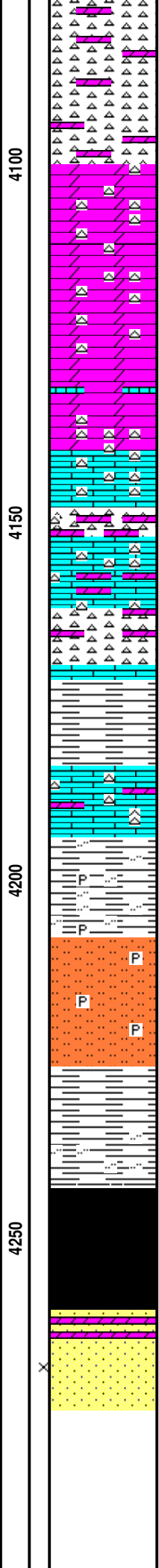
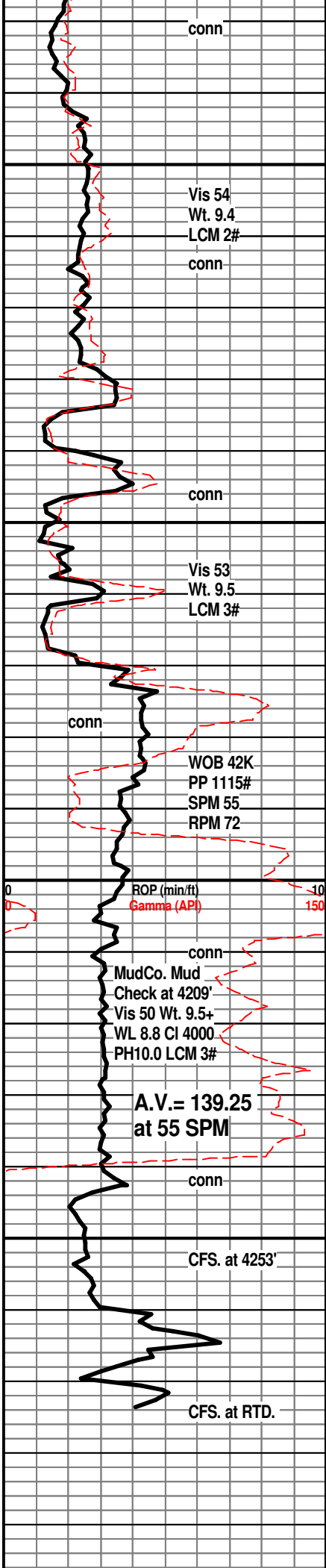
DOL CHT; lt gy, some dove gy, fresh - sharp, occ dolomitic, pyr ip, poss frags, no fluor, ns.

Mud is very gassy after DST #3

Recycle

Recycle

TG, G, C, S 50 500



DOL CHT; off wh, wh, lt gy, fresh gy cht, dolomitic w/bands of lt brn sucrosic dolo, looks tite, no fluor, ns.

CHRTY DOL; lt brn, off wh, mostly sucrosic dolo w/interbdd wh to off wh cht, tite, no vis por, no fluor, ns.

DOL; lt brn, lmy ip, some hd, blocky ip, cherty, no vis por, no fluor, ns.

CHRTY LMST; wh, off wh, abnt wh cht, some gran text, interbdd dolomitic cht, minor chalk and chalky mtx, v. dull yel min fluor, no stn or odor, ns.

LM; off wh, tan, cherty, hd, rarely dolomitic, no vis por, no fluor, ns.
KINDERHOOK SHALE 4194(-2877)

SH; med gy, occ gy grn, silty ip, v. firm, occ pyr

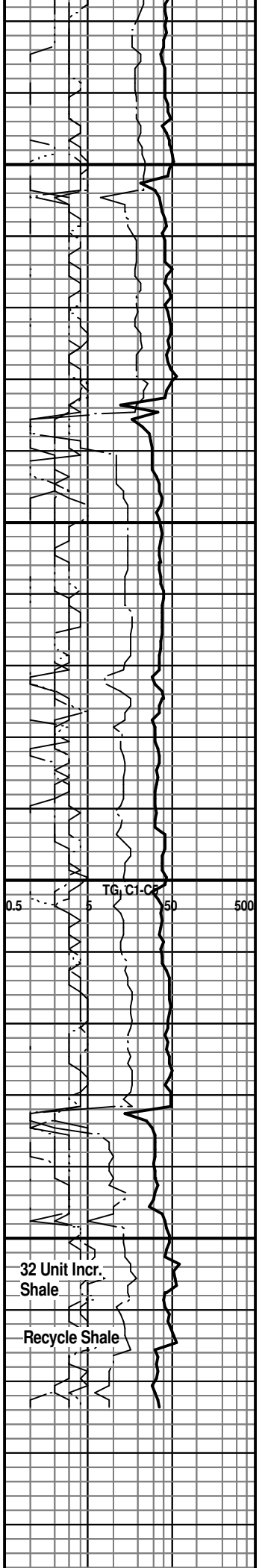
SLTST; med gy, platy, firm, occ pyr

SH; med to dk gy, silty ip, v. firm

WOODFORD SHALE 4243(-2926)

SH; v. dk brn to blk, hydrocarbon odor, carb.

SIMPSON SAND 4260(-2943)
 SS; clr, lt/med brn, hd dolomitic sand/sandy dolo at top - well cem, clean med gr qtz clusters are barren of show, slight sulfur odor, poor to gd intergran por in clean sand, no fluor, no vis oil stn, no gas kick



RTD. 4271' at 3:30 PM. 1/24/15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

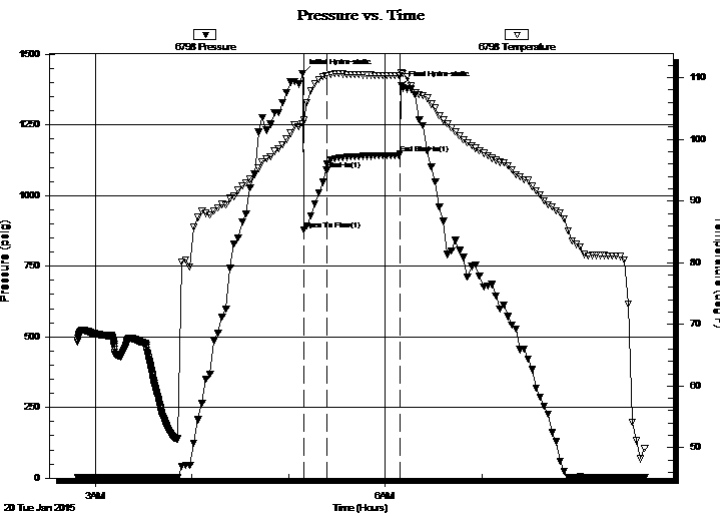
2-31S-3W Sumner
Southborough 1
 Job Ticket: 59896 **DST#: 1**
 Test Start: 2015.01.20 @ 02:48:50

GENERAL INFORMATION:

Formation: **Stalnaker Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:09:20
 Time Test Ended: 08:42:50
 Interval: **2928.00 ft (KB) To 2982.00 ft (KB) (TVD)**
 Total Depth: 2982.00 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: 1317.00 ft (KB)
 1308.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 1090.05 psig @ 2929.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.20 End Date: 2015.01.20 Last Calib.: 2015.01.20
 Start Time: 02:48:51 End Time: 08:42:50 Time On Btm: 2015.01.20 @ 05:08:35
 Time Off Btm: 2015.01.20 @ 06:10:05

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds
 IS: 6 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1432.64	102.60	Initial Hydro-static
1	878.82	103.10	Open To Flow (1)
15	1090.05	110.35	Shut-In(1)
61	1147.96	110.32	End Shut-In(1)
62	1388.88	110.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1512.00	Water	19.24
189.00	GWCM 5%G 35%W 60%M	2.65
285.00	GWCM 2%G 28%W 70%M	4.00

Gas Rates

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



DRILL STEM TEST REPORT

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

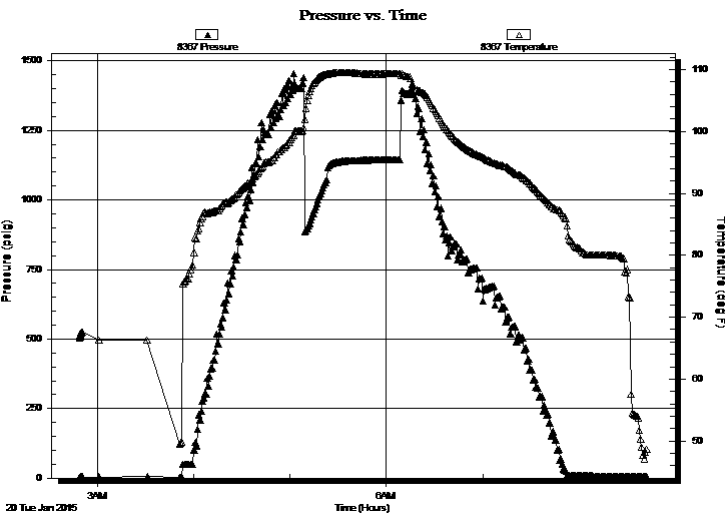
2-31S-3W Sumner
Southborough 1
 Job Ticket: 59896 **DST#: 1**
 Test Start: 2015.01.20 @ 02:48:50

GENERAL INFORMATION:

Formation: **Stalnaker Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:09:20
 Time Test Ended: 08:42:50
 Interval: **2928.00 ft (KB) To 2982.00 ft (KB) (TVD)**
 Total Depth: 2982.00 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: 1317.00 ft (KB)
 1308.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 2929.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.20 End Date: 2015.01.20 Last Calib.: 2015.01.20
 Start Time: 02:48:51 End Time: 08:42:35 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds
 IS: 6 inch Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1512.00	Water	19.24
189.00	GWCM 5%G 35%W 60%M	2.65
285.00	GWCM 2%G 28%W 70%M	4.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

2-31S-3W Sumner
Southborough 1
 Job Ticket: 59896 **DST#: 1**
 Test Start: 2015.01.20 @ 02:48:50

Mud and Cushion Information

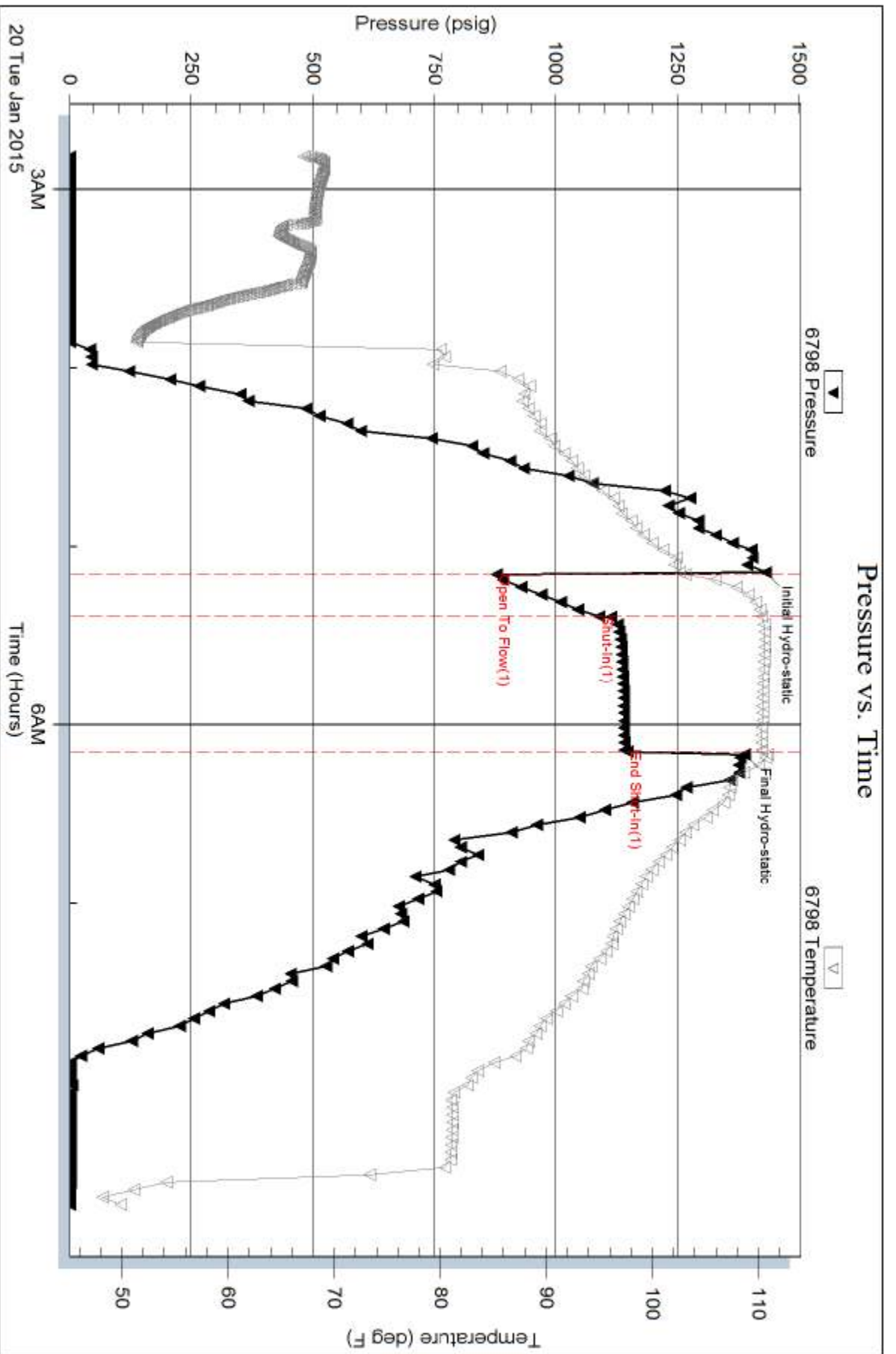
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	240000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 68000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1512.00	Water	19.242
189.00	GWCM 5%G 35%W 60%M	2.651
285.00	GWCM 2%G 28%W 70%M	3.998

Total Length: 1986.00 ft Total Volume: 25.891 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .07 @ 44 degrees

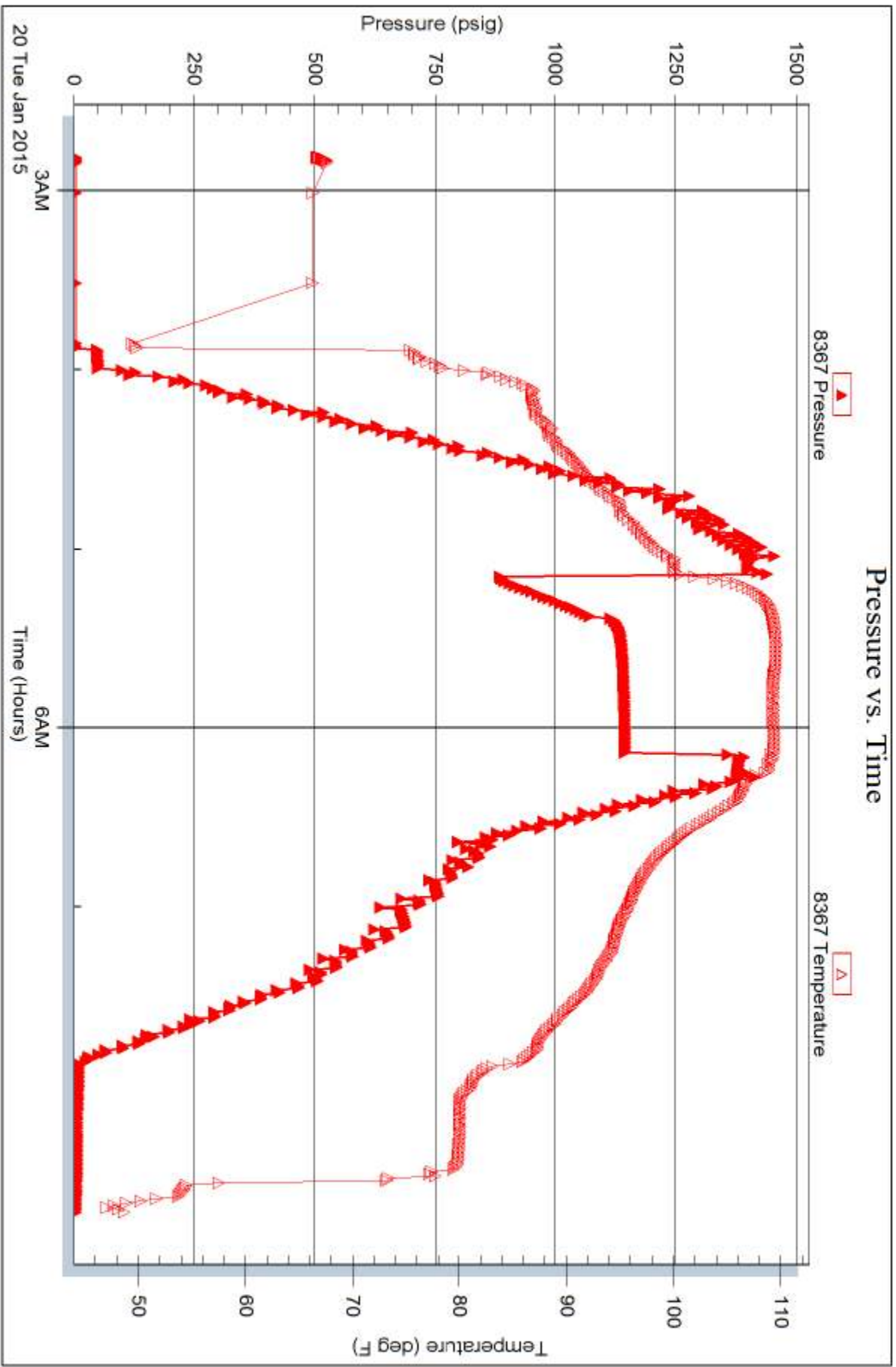


Serial #: 8367

Outside Herman L Loeb LLC

Southborough 1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59896

Printed: 2015.01.20 @ 09:16:22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

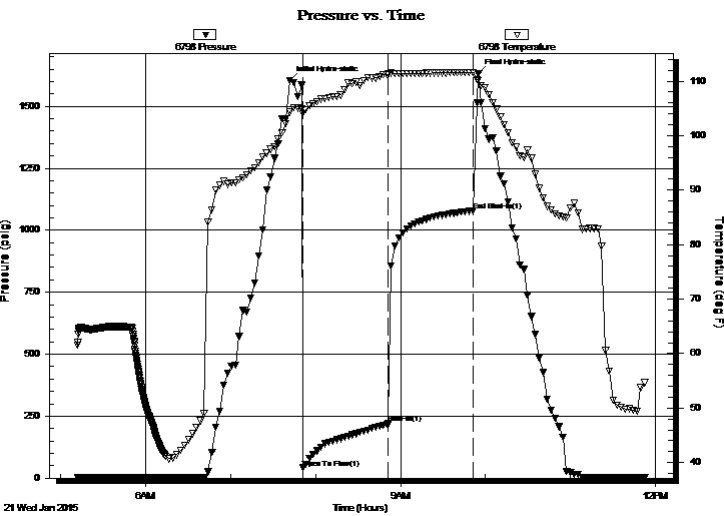
2-31S-3W Sumner
Southborough 1
 Job Ticket: 59897 **DST#: 2**
 Test Start: 2015.01.21 @ 05:12:09

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:50:54
 Tester: Leal Cason
 Time Test Ended: 11:54:09
 Unit No: 74
Interval: 3208.00 ft (KB) To 3260.00 ft (KB) (TVD)
 Reference Elevations: 1317.00 ft (KB)
 Total Depth: 3260.00 ft (KB) (TVD)
 1308.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 9.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 219.84 psig @ 3209.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.21 End Date: 2015.01.21 Last Calib.: 2015.01.21
 Start Time: 05:12:10 End Time: 11:54:09 Time On Btm: 2015.01.21 @ 07:41:54
 Time Off Btm: 2015.01.21 @ 09:54:54

TEST COMMENT: IF: Fair Blow , BOB in 16 minutes
 IS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.32	104.32	Initial Hydro-static
9	40.96	104.04	Open To Flow (1)
70	219.84	111.30	Shut-In(1)
130	1078.61	111.61	End Shut-In(1)
133	1633.15	110.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	MCW 12%M 88%W	1.19
126.00	MCW 24%M 76%W	1.77
90.00	Mud	1.26

* 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 LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

2-31S-3W Sumner
Southborough 1
 Job Ticket: 59897 **DST#: 2**
 Test Start: 2015.01.21 @ 05:12:09

Mud and Cushion Information

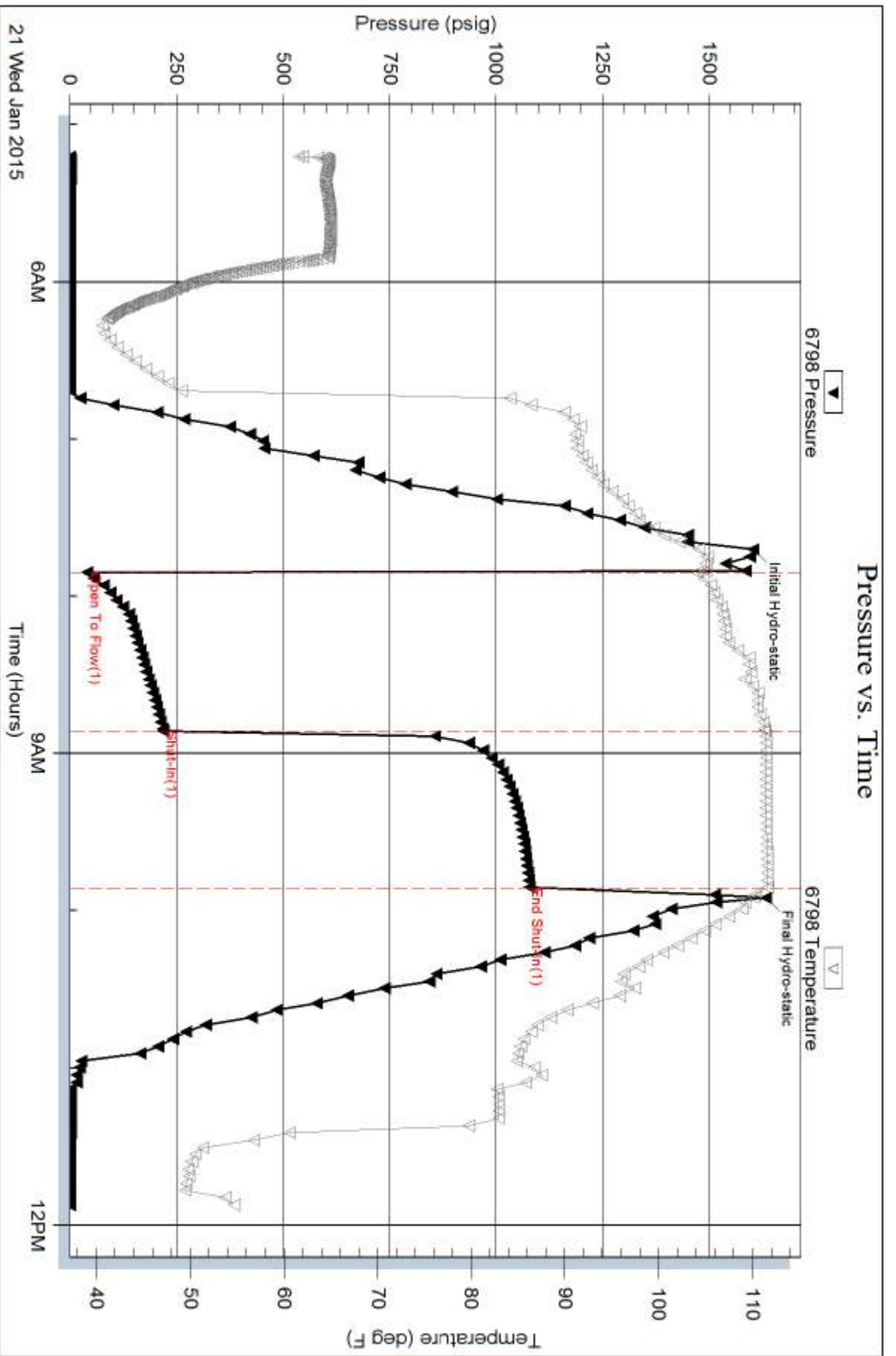
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 130000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
225.00	MCW 12%M 88%W	1.188
126.00	MCW 24%M 76%W	1.767
90.00	Mud	1.262

Total Length: 441.00 ft Total Volume: 4.217 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .10 @ 45 degrees





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

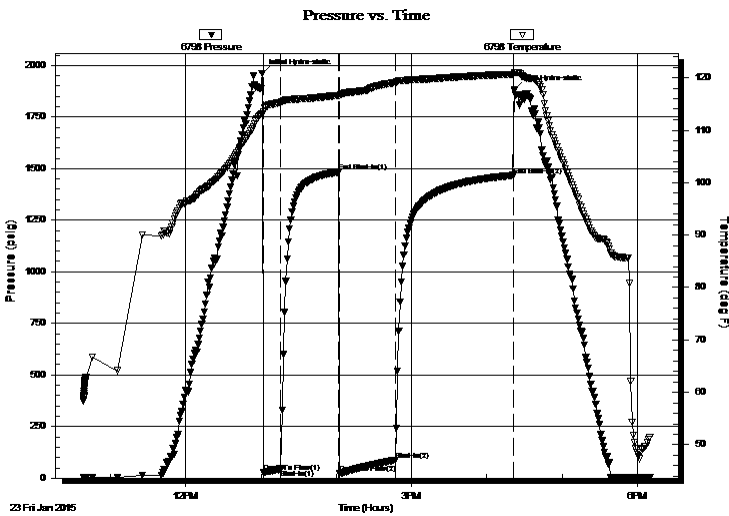
2-31S-3W Sumner
Southborough 1
 Job Ticket: 59898 **DST#: 3**
 Test Start: 2015.01.23 @ 10:38:36

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:01:51 Tester: Leal Cason
 Time Test Ended: 18:10:36 Unit No: 74
 Interval: **3830.00 ft (KB) To 3858.00 ft (KB) (TVD)** Reference Elevations: 1317.00 ft (KB)
 Total Depth: 3858.00 ft (KB) (TVD) 1308.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6798 Inside
 Press @ Run Depth: 87.18 psig @ 3831.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.23 End Date: 2015.01.23 Last Calib.: 2015.01.23
 Start Time: 10:38:37 End Time: 18:10:36 Time On Btm: 2015.01.23 @ 13:00:51
 Time Off Btm: 2015.01.23 @ 16:22:06

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB in 10 seconds, GTS in 30 seconds, Gauged & caught Sample
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.58	113.08	Initial Hydro-static
1	28.30	113.56	Open To Flow (1)
15	43.92	115.29	Shut-In(1)
61	1483.03	116.63	End Shut-In(1)
62	22.51	116.58	Open To Flow (2)
107	87.18	119.08	Shut-In(2)
201	1466.89	120.65	End Shut-In(2)
202	1883.22	121.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3747 GIP	0.00
80.00	GOMCW 24%G 4%O 32%M 40%W	0.39

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	18.00	51.40
Last Gas Rate	0.25	38.00	83.13
Max. Gas Rate	0.25	38.00	83.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

2-31S-3W Sumner
Southborough 1
Job Ticket: 59898 **DST#: 3**
Test Start: 2015.01.23 @ 10:38:36

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: 110000 ppm	
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3747 GIP	0.000
80.00	GOMCW 24%G 4%O 32%M 40%W	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .13 @ 41 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

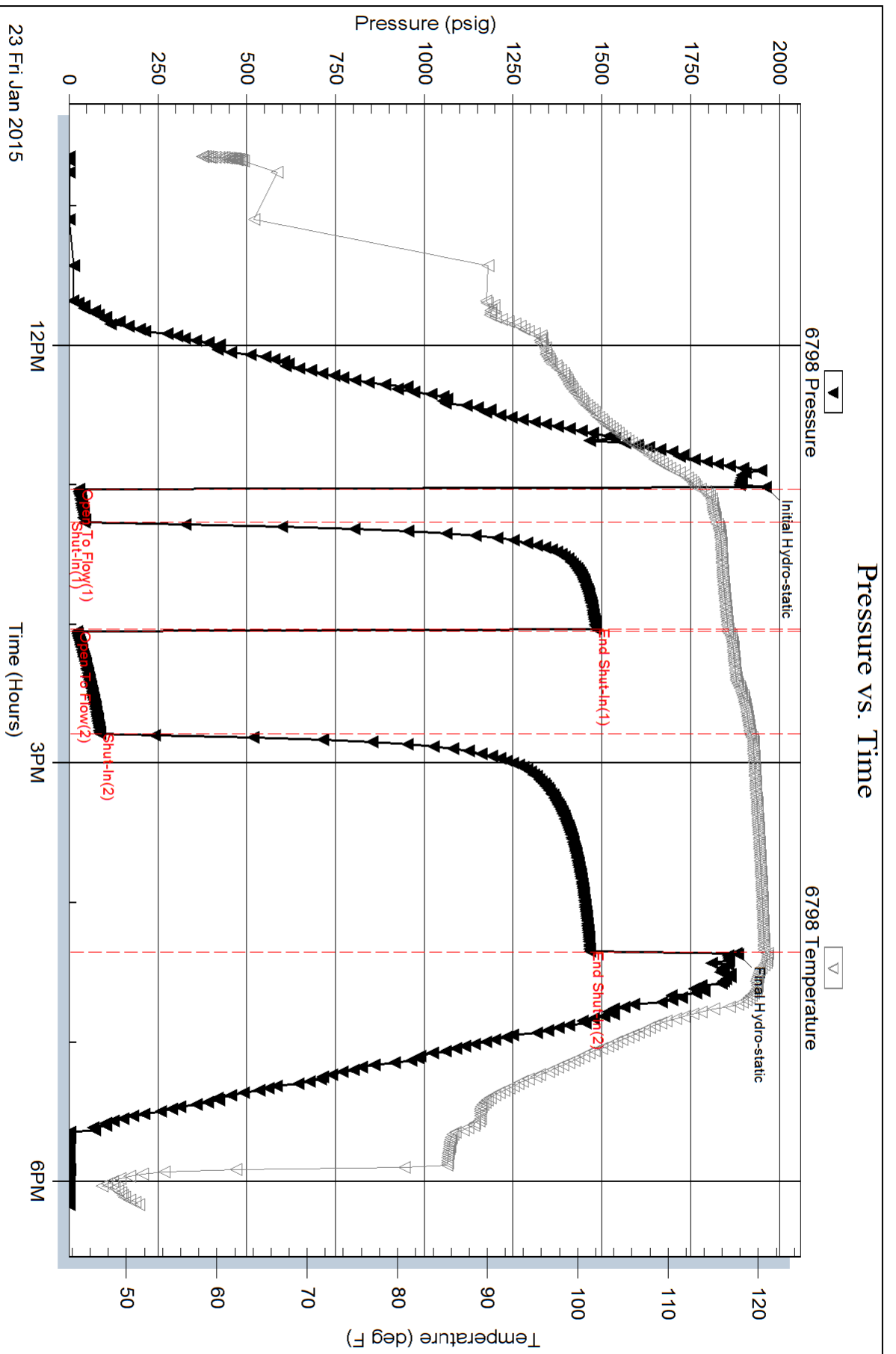
2-31S-3W Sumner
Southborough 1
Job Ticket: 59898 **DST#: 3**
Test Start: 2015.01.23 @ 10:38:36

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	10	0.25	18.00	51.40
2	20	0.25	24.00	60.92
2	30	0.25	30.00	70.44
2	40	0.25	36.00	79.95
2	45	0.25	38.00	83.13





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	100758	1718	01/19/2015
INVOICE NUMBER			
91704485			

Pratt (620) 672-1201

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

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

ATTN: ACCOUNTS PAYABLE
 6076/ Southbol 6438

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40807128	19843		Net - 30 days	02/18/2015
For Service Dates: 01/17/2015 to 01/17/2015				
0040807128				
171811910A Cement-New Well Casing/Pi 01/17/2015 Cement 8 5/8 Surf.ace				
60/40 POZ		250.00	EA	7.92
Celloflake		63.00	EA	2.44
Calcium Chloride		645.00	EA	0.69
"Wooden Cmt Plug, 8 5/8""		1.00	EA	105.60
"Unit Mileage Chg (PU, cars one way)"		80.00	MI	2.97
Heavy Equipment Mileage		160.00	MI	4.95
"Proppart & Bulk Del. Chgs., per ton mil		860.00	EA	1.65
Depth Charge: 0-500'		1.00	EA	660.00
Blending & Mixing Service Charge		250.00	BAG	0.92
Plug Container Util. Chg.		1.00	EA	165.00
"Service Supervisor, first 8 hrs on loc.		1.00	EA	115.50

PAID
 56234
 JAN 27 2015
 SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,306.53
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	171.63
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,478.16
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Customer Heriman L Looe LLC	Lease No.	Date 1-17-15
Lease Southborough	Well # 1	
Field Order # 11410	Station Pratt	Casing 8 5/8
		Depth 260.3
Type Job Cnw 8 5/8 slickline	Formation	County Sumner
		State KS
		Legal Description 2-315-3W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 250 SKI	60/40 POZ	RATE	PRESS 2959	ISIP 3% cc 1/4 #
Depth 260.3	Depth	From	To	Pre Pad	Max			5 Min.
Volume 16.5	Volume	From	To	Pad	Min			10 Min.
Max Press 300	Max Press	From	To	Frac	Avg			15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 240.3	Packer Depth	From	To	Flush 15	Gas Volume			Total Load

Customer Representative George Payne	Station Manager Kevin Guidley	Treater Mike Mattai
---	----------------------------------	------------------------

Service Units	37586	84981	19843	19884	19978				
Driver Names	MATTAI	McGraw		Payne					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:20					ON LOCATION, SAFETY MEETING
11:54					Run casing
1:11					CASING ON BOTTOM
1:17					HOOK TO CASING / BREAK CIRC W. R.Y
1:27	200		3	5	PUMP 3 BBL WATER
1:29	200		54	5	MIX 250 SKI 60/40 POZ
1:44	-		-	-	RELEASE PLUG
1:48	250		-	4	STAIN DISP.
1:54	250		15	-	PLUG DOWN / SHUT IN WELL
					15 BBLS COM TO BIT
					JOB COMPLETE
					Thank You!
					Mike Mattai
					Mike + DAI



BASIC
ENERGY SERVICES

6076
SouthBOK
6438

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	100758	1718	01/27/2015
INVOICE NUMBER			
91712232			

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

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40809526	19843		Net - 30 days	02/26/2015
For Service Dates: 01/25/2015 to 01/25/2015				
0040809526				
171811769A Cement-New Well Casing/Pi 01/25/2015 Cement 4 1/2" Longstring				
50/50 POZ			250.00 EA	6.82 1,705.00 T
Celloflake			63.00 EA	2.29 144.52 T
Gypsum			1,050.00 EA	0.47 488.25 T
FLA-322			105.00 EA	4.65 488.25 T
Mud Flush			1,000.00 EA	0.93 930.00 T
Gilsonite			1,500.00 EA	0.42 623.10 T
KCL Potassium Chloride			566.00 EA	0.93 526.38 T
Claymax KCL Substitute			4.00 EA	21.70 86.80 T
"Latch Down Plug & Baffle, 4 1/2" (Blu			1.00 EA	229.40 229.40 T
"Auto Fill Float Shoe 4 1/2" (Blue)"			1.00 EA	204.60 204.60 T
"Turbolizer, 4 1/2" (Blue)"			6.00 EA	52.70 316.20 T
4 1/2" Basket(Blue)			2.00 EA	167.40 334.80 T
"Unit Mileage Chg (PU, cars one way)"			80.00 MI	2.79 223.20 T
Heavy Equipment Mileage			160.00 MI	4.65 744.00 T
"Proppant & Bulk Del. Chgs., per ton mil			840.00 EA	1.55 1,302.00 T
Depth Charge; 3001-4000'			1.00 EA	1,339.20 1,339.20 T
Blending & Mixing Service Charge			250.00 BAG	0.87 217.00 T
Casing Swivel Rental			1.00 EA	124.00 124.00 T
Plug Container Util. Chg.			1.00 EA	155.00 155.00 T
"Service Supervisor, first 8 hrs on loc.			1.00 EA	108.50 108.50 T
PLEASE REMIT TO:			SEND OTHER CORRESPONDENCE TO:	
BASIC ENERGY SERVICES, LP			BASIC ENERGY SERVICES, LP	
PO BOX 841903			801 CHERRY ST, STE 2100	
DALLAS, TX 75284-1903			FORT WORTH, TX 76102	
			SUB TOTAL	
			10,290.20	
			TAX	
			331.99	
			INVOICE TOTAL	
			10,622.19	

PAID
 5440
 FEB 05 2015
 SCANNED



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 11769 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>01-25-15</u> DISTRICT <u>PRATT KS</u>		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 <u>HERMAN LOEB</u>		LEASE <u>SOUTHBOROUGH 1</u> WELL NO.							
ADDRESS		COUNTY <u>Sumner</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Sullivan, Spivey, G. G. S.</u>							
AUTHORIZED BY		JOB TYPE: <u>CPW 4 1/2" 40454</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>01-25-15</u> DATE	AM	PM	TIME
<u>19843</u>	<u>45</u>								<u>12:15</u>
<u>21010</u>	<u>20</u>								<u>8:45</u>
									<u>2:20</u>
									<u>3:15</u>
									<u>4:45</u>
						MILES FROM STATION TO WELL <u>80</u>			

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
CP 104	50/50 Poz cat	SK	200		2,200 00
CP 104	50/50 Poz cat	SK	50		500 00
CC 107	CellFite	lb	63		233 10
CC 113	Gypsum	lb	1050		787 50
CC 129	FLA-322	lb	105		787 50
CC 201	Gilsonite	lb	1500		1,005 00
C 702	KOL Potassium chloride	lb	566		849 00
CF 606	LATCH (down) Plug/Baffle 4" 2	SA	1		370 00
CF 1250	Auto Fill slide float	SA	1		330 00
CF 1650	Turbolizer	SA	6		510 00
CF 1900	Basket	SA	2		540 00
C 704	CLAY max Subs	ML	4		140 00
CC 151	MUD FLK	ML	1000		1,500 00
E 100	Picks and	mi	80		360 00
E 101	Heavy Spud ms	ms	160		1,200 00
E 113	Bulk Welling tm	tm	840		2,100 00
PE 204	Depth change 3,000 4000	ft	1		2,160 00
CE 240	13/16" Dia - mixing	SK	250		350 00
BE 304	Plug Containment Plug D	SA	1		250 00
CE 301	CRUSH	SA	1		250 00
CE 3007	SEALED	SA	1		175 00
SUB TOTAL					16,597 10
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT					%TAX ON \$
MATERIALS					%TAX ON \$
Discount					TOTAL 10,290 20

SERVICE REPRESENTATIVE [Signature]

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

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer HERMANN Loeb		Lease No.		Date	
Lease Southborough		Well # 1		01-25-15	
Field Order # 11764	Station Pratt	Casing 4 1/2	Depth	County SUMNER	State KS
Type Job CW 4 1/2" log 5 y			Formation	Legal Description 2-31-3	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
4 1/2							
Depth 3792'	Depth	From	To	Pre Pad	Max		5 Min.
Volume 103	Volume	From	To	Pad	Min		10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection P.C	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3711	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager DAVE Scott	Treater Robert Sullivan
-------------------------	-----------------------------------	--------------------------------

Service Units	37900	84981	19843	19960	21010				
Driver Names	William	Ernie		D. B. S.					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:45					on line
					wait on csg.
1:45					CRACK on Bottom
1:50					Hook up circ csg.
2:20			5	3.5	at spacer
			24		mix mud flush
			5		spacer
			48	4.5	mix cont 200K 50/50 PDC @ 14 ppg.
					cont mix-d shut down wash flush pump
					Release Plug
				6	START PDC w/ 2% KCL H₂O
	300				lift PSI
	450			3.5	low rate
3:00	1,500		63 1/2		Plug down
			7		Plug RH w/ acid
			5		plug ml of rock
					50B sample
					Thank you