



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1191372
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: _____

1191372

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</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	THOMPSON 'C' 2-16
Doc ID	1191372

Tops

Name	Top	Datum
Chase	2185	-365
Elgin Sand	3878	-2058
Snyderville Sand	3979	-2159
Toronto	3998	-2178
Upper Douglas Sand	4048	-2228
Lower Douglas Sand	4139	-2319
Lansing	4164	-2344
Swope	4535	-2715
BKC	4624	-2804
Massey	4635	-2815
Basal Penn Cong	4670	-2850
Miss Chert	4696	-2876
Woodford	4942	-3122
Viola	5003	-3183
Simpson Sand	5132	-3312

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Thompson 'C' #2-16
Location: 555' FNL & 2235' FWL, Sec. 16-T33S-R13W, Barber Co., KS.
Licence Number: 15-007-24122-00-00 Region: Medicine Lodge-Boggs
Spud Date: 12/27/2013 Drilling Completed: 1/6/2014
Surface Coordinates: 555' FNL & 2235' FWL, Sec. 16-T33S-R13W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 1811' K.B. Elevation (ft): 1820'
Logged Interval (ft): 3400' To: 5162' Total Depth (ft): 5162'
Formation: Simpson Formation at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3375'; Chemical Gel 3375' to 5162'

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

OPERATOR

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

GEOLOGIST

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

Cores

None Taken

DSTs

DST #1(Kansas City Swope) 4527' - 4552'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/4 Min., FFP Strong Blow BOB/45 Sec., no Gas to Surface, 0.5" Blowback on FSI; REC: 1550' Gas in Pipe, 122' OCM(2%O, 98%M), 120' OCMSW(2%O, 14%M, 84%W) CI 96,000, Mud 5000; IFP 66-62#, ISIP 1557#, FFP 60-109#, FSIP 1541#, IHP 2303#, FHP 2246#, BHT 120 Deg. F.

DST #2(Conglomerate/Reworked Miss.) 4670' - 4702'(Corrected Depth to Log) Test Times 15"-45"-45"-90" IFP Weak to Fair 6" Blow, 3" Blowback on ISI; FFP Weak Blow Built to 6", 1" Blowback on FSI; REC: 2316' Gas in Pipe, 15' VSOCM(1%O, 99%M), no Water; IFP 17-20#, ISIP 82#, FFP 18-23#, FSIP 379#, IHP 2368#, FHP 2387#, BHT 120 Deg. F.

DST #3(Viola) 5001' - 5041'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 0.75" Blow, FFP 0.25" Blow, no Blowback on SI's; REC: No Gas in Pipe, 65' SGCM(2%G, 98%M), no oil shows; IFP 52-61#, ISIP 827#, FFP 61-68#, FSIP 190#, IHP 2656#, FHP 2526#, BHT 120 Deg. F.

Comments

12/23/13 MIRU Sterling Drilling Rig #4; 12/24 through 12/26/13 Shut down for Christmas Holiday; 12/27/13 Spud at 11:00 AM.; 12/28/13 TD. 260' - WOC; 12/29/13 Drilling at 1885'; 12/30/13 Drilling at 3223'; 12/31/13 Drilling at 4030'; 1/1/14 TD. 4550' - Circ. for Samples; 1/2/14 TD. 4550' - TIH after DST #1; 1/3/14 TD. 4700' - DST #2; 1/4/14 Drilling at 4835'; 1/5/14 TD. 5040' - TOH for DST #3; 1/6/14 Drilling at 5135' - Reached Total Depth of 5162' at 12:30 PM., Run Nabors Co. Logs - LTD. 5162'; 1/7/14 RTD. 5162', LTD. 5162' - TIH after Logs, will set Production Casing.

Set new 13 3/8"(55#) Surface Casing at 257' with 300 sx. of cement(Allied Cementing). Cement did Circulate. PD. at 9:45 PM. on 12/27/13.

Set new 4 1/2"(11.6#) Production Casing at 5040' with 250 sx. of "Loeb Blend" cement(Basic Energy Services). PD. at 10:00 PM. on 11/7/14.

Surveys: 1 Deg. at 260'(Surface Casing); 5.25 Deg. at 4550'(DST #1); 4.75 Deg. at 4700'(DST #2); 1.75 Deg. at 5040'(DST #3); 1.0 Deg. at 5162'(RTD).


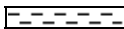


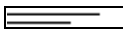
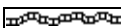




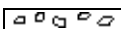
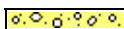



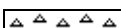



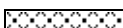
Pipe Strap at 4700'(DST #2): Strap 0.99' Short to the Board, no Correction made to the Board.

After review of the Nabor's Logs, DST data, and indications of commercial amounts of recoverable hydrocarbons, the operator elected to set new 4 1/2" Production Casing for completion in the Basal Penn. Conglomerate and Miss. Chert zones. The Swope zone tested in DST #1 should be perforated and treated prior to abandonment of the Thompson 'C' #2-16.










































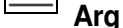





























LOG TOPS: Chase 2185(-365), Wabaunsee 3078(-1258), Howard 3491(-1671), Lecompton 3760(-1940), Elgin Sand 3878(-2058), Heebner Shale 3978(-2158), Snyderville Sand 3979(-2159), Toronto 3998(-2178), Upper Douglas Sand 4048(-2228), Lower Douglas Sand 4139(-2319), Brown Lmst. 4154(-2334), Lansing 4164(-2344), Stark Shale 4530(-2710), Swope 4535(-2715), Base Kansas City 4624(-2804), Massey Zone 4635(-2815), Basal Penn. Conglomerate 4670(-2850), Miss. Chert 4696(-2876), Kinderhook Shale 4898(-3078), Woodford 4942(-3122), Viola 5003(-3183), Simpson Shale 5104(-3284), Simpson Sand 5132(-3312).

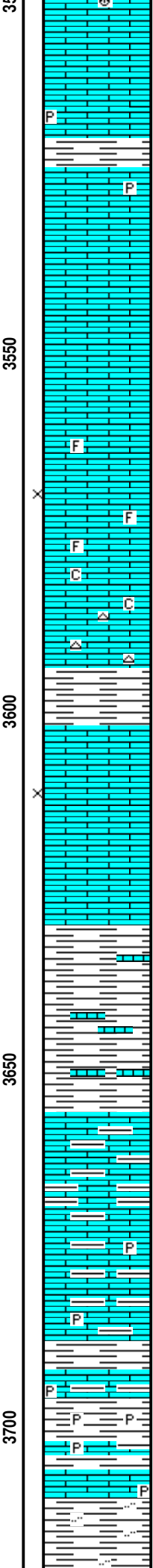
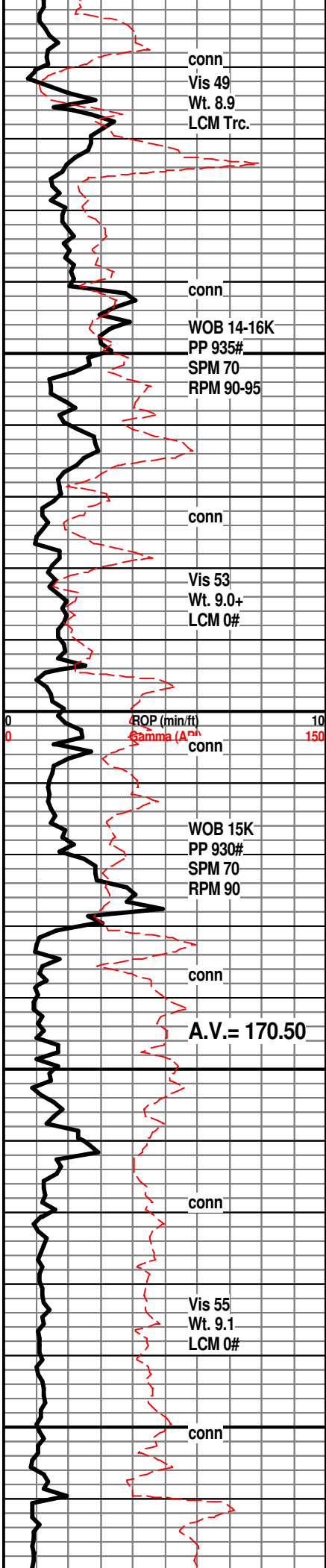
NOTE: This log was shifted downward by 1' to 3' for correlation purposes with the Nabors Co. LOGS.

ROCK TYPES

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

ACCESSORIES

MINERAL		FOSSIL	
 Anhy	 Gyp	 Algae	 Ostra
 Arggrn	 Hvymin	 Amph	 Pelec
 Arg	 Kaol	 Belm	 Pellet
 Bent	 Marl	 Bioclst	 Pisolite
 Bit	 Minxl	 Brach	 Plant
 Brecfrag	 Nodule	 Bryozoa	 Strom
 Calc	 Phos	 Cephal	
 Carb	 Pyr	 Coral	STRINGER
 Chtdk	 Salt	 Crin	 Anhy
 Chtlt	 Sandy	 Echin	 Arg
 Dol	 Silt	 Fish	 Bent
 Feldspar	 Sil	 Foram	 Coal
 Ferrpel	 Sulphur	 Fossil	 Dol
 Ferr	 Tuff	 Gastro	 Gyp
 Glau		 Oolite	 Ls
			 Mrst
			 Sltstrg
			 Ssstrg
			TEXTURE
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest



ns.

LM; med brn, dense, occ pyr, hd, no vis por, abnt gy shales(75 - 80% shale in samples)

LM; tan to lt brn, hd, micritic ip, most dense, no vis por, ns.

LM; lt to med brn, blocky, rare well cem foss, trc poor interpart por, most dense, tite

LM; wh, off wh, tan, fxln w/scat off wh/lt gy cht, most dense, minor chalky mtx, dull yel fluor, no stn or odor, ns.

SH; med gy, platy

LM; tan to off wh, buff, fxln w/rare interxln por, much dense, no fluor, ns.

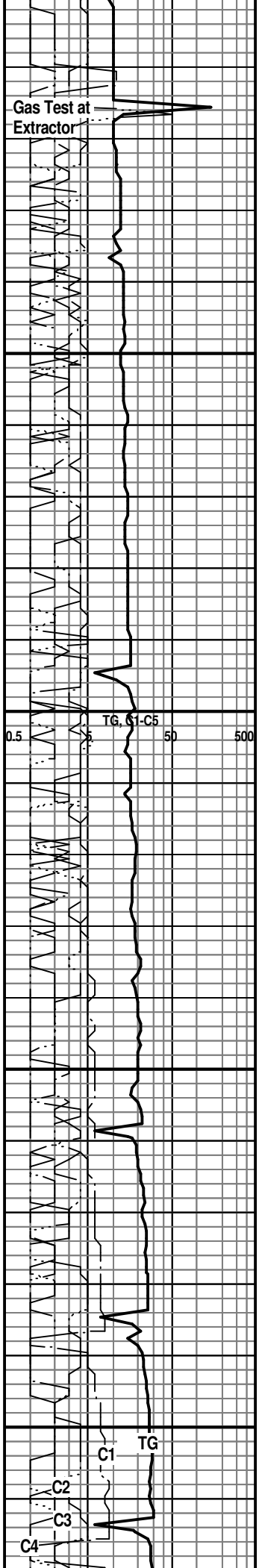
SH; med to dk gy, gy brn, lmy ip, firm

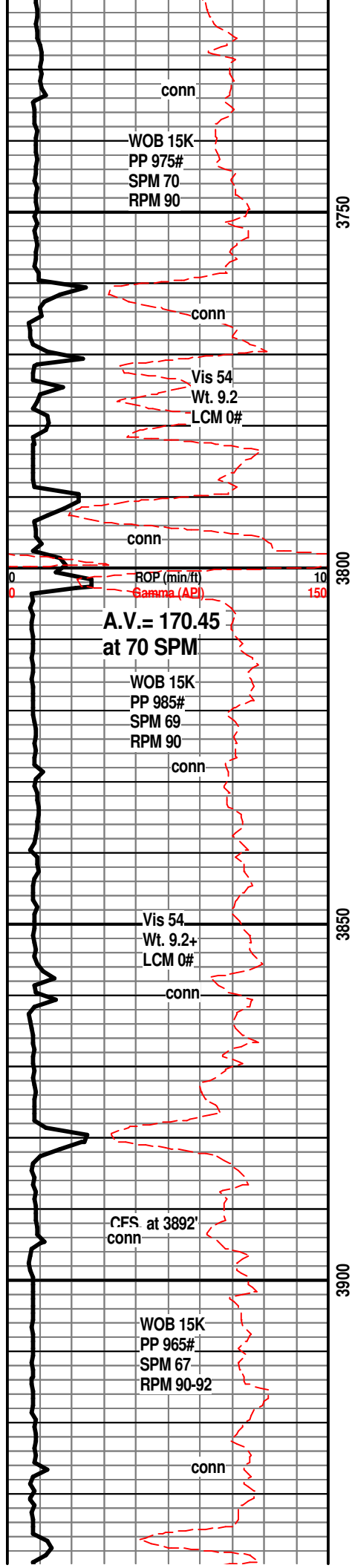
LM; med to dk gy brn, blocky, argil thru

LM; med to dk gy, gy brn, v. shaly ip, firm, scat pyr

SH; med/dk gy, platy, occ pyr, abnt lmy sh and shaly lmst.

SH; lt to med gy, silty ip, platy





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

LECOMPTON LMST. 3760(-1940)

LM; med to dk brn, dense, micritic
SH; dk gy, some blk, platy

LM; med brn, occ gritty text, silty ip, interbdd gy shale

SH; dk gy, blk, platy, occ pyr

LM; med gy, dk gy brn, hd
SH; dk gy, blk, platy to blocky, trc gas

ELGIN SHALE 3804(-1984)

SH; lt gy, silty, soft, platy, occ mica

SH; most lt gy, platy, silty, occ mica

SH; lt gy, platy, silty to occ sandy, mica, interbdd hd vf gr qtz ss - well cem, lmy, dense, no vis por, no fluor, ns.

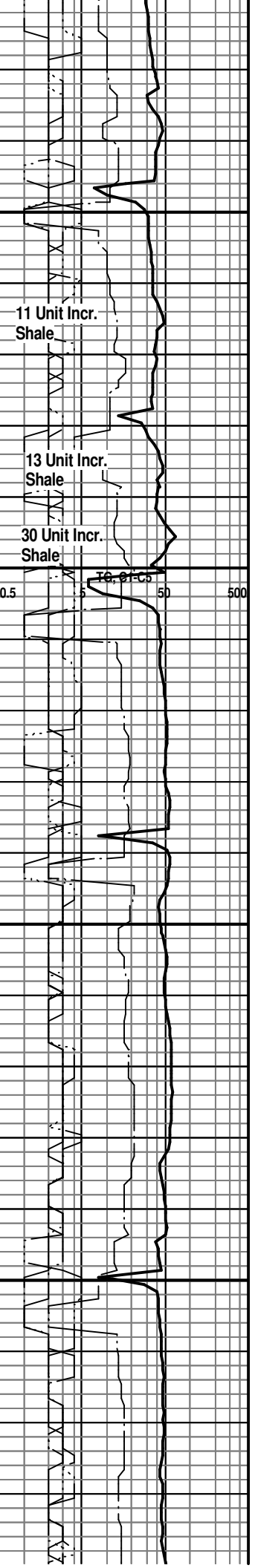
ELGIN SAND 3878(-2058)

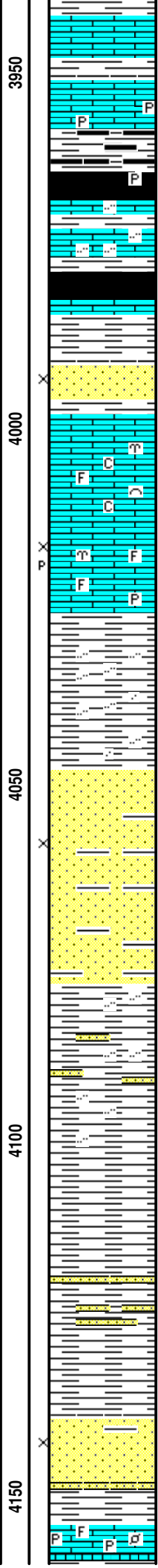
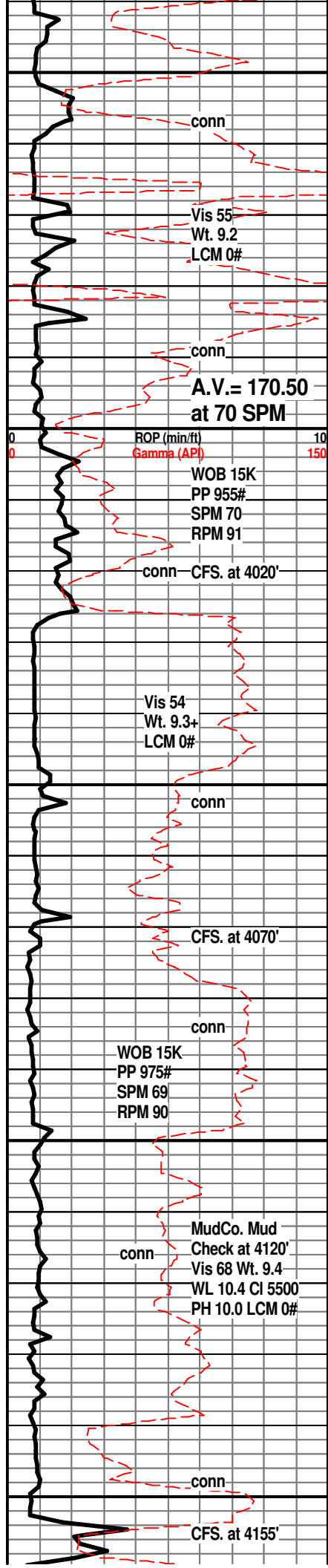
SS; lt gy, vf to f gr qtz, most well cem, occ mica, trc trc lmy ss, v. poor intergran por, no fluor, no stn or odor, no gas kick, ns.

SH; lt gy, silty to occ sandy, platy

OREAD LMST. 3936(-2116)

LM; med brn. dense. micritic





SH; med to dk gy, firm, platy

LM; med to dk brn, pyr ip, dense

SH; dk gy - blk, carb ip, platy, rare pyr, trc gas

LM; med gy, med brn, hd, some gritty text

HEEBNER SHALE 3978(-2158)
SH; blk, carb, trc gas
LM; med to dk brn, v. hd, blocky

SNYDERVILLE SAND 3979(-2159)
SS; lt gy, vf gr, qtz, clusters, soft, fair to occ gd intergran por, no stn or odor, no fluor, no vis gas bubbles/no apparent gas kick

TORONTO 3998(-2178)
LM; tan to off wh, wh, foss ip, most well cem, lt yel min fluor, no vis por, minor chalky mtx, no stn or odor, ns.

LM; off wh, foss, scat fair p-p and interpart por, lt yel/wh min fluor, no stn, ns.

DOUGLAS SHALE 4026(-2206)
SH; lt to med gy, platy, occ silty to sandy

UPPER DOUGLAS SAND 4048(-2228)
SS; lt gy, vf to f gr qtz, mica ip, fair to occ gd vis intergran por, interbdd shaly ss w/scat carb strks, subrnd gr, no fluor, no stn or odor, no gas kick, barren, ns.

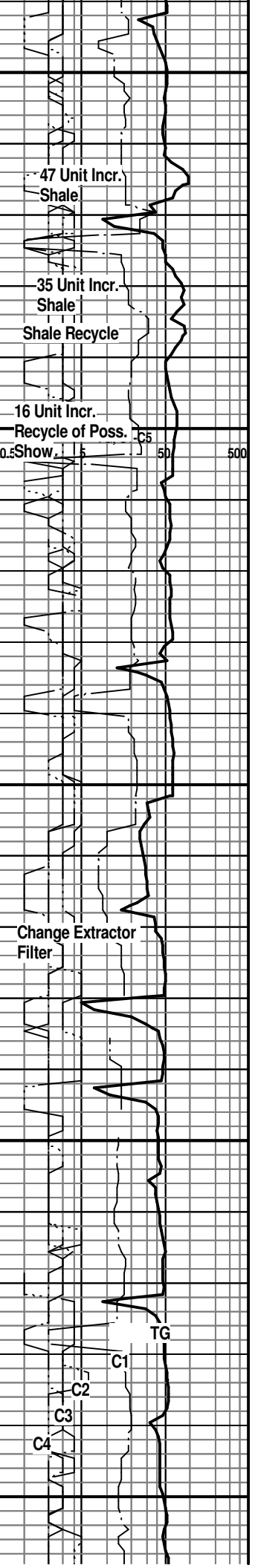
SH; med gy, smooth, occ silty to sandy

SH; med gy, platy, sandy ip, occ mica

SH; lt to med gy, sandy w/interbdd lt gy ss strngs, mica ip, some argil ss

LOWER DOUGLAS SAND 4139(-2319)
SS; lt gy, most f gr qtz, clusters, some "salt & pepper" gr, subrnd, fair to gd intergran por, no fluor, no stn or odor, no gas kick

BROWN LMST. 4154(-2334)
LM; med brn, foss ip, dense, occ pyr



A.V. = 170.55

Vis 68
Wt. 9.3
LCM 0#
conn

CFS. at 4185'

ROP (min/ft)
Gamma (API)

conn
WOB 15K
PP 1000#
SPM 70
RPM 90

conn

Vis 51
Wt. 9.3+
LCM 0#

conn

WOB 15K
PP 1000#
SPM 70
RPM 90

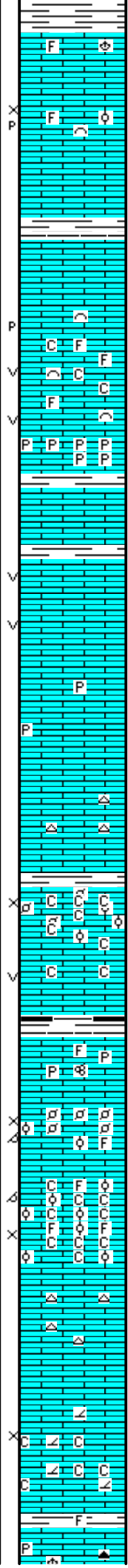
conn

conn
Vis 53
Wt. 9.3
LCM 0#

A.V. = 170.60
at 70 SPM

conn

4200
4250
4300
4350



LANSING 'A' 4164(-2344)

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

LM; tan to lt brn, buff, foss w/scat fair interpart and p-p por, trc v. spotted dk brn oil stn, no odor, no apparent gas kick, most looks tite, weak to no cut, no live shows

LANSING 'B' 4193(-2373)

LM; tan to lt brn, foss ip, some dense - micritic, blocky, no vis por, ns.

LM; tan to buff, off wh, foss w/fair to occ gd p-p and vug por, minor soft chalky mtx, dull to lt yel min fluor, no stn or odor, no gas kick, ns.

LM; med brn, blocky, abnt pyr, hd, no vis por, ns

LM; tan to lt brn, fxln, few pcs w/gd vug - leached por, occ cse spar calc xtals, dull yel fluor, no stn or odor, ns.

LM; tan to lt brn, blocky, dense, scat pyr, hd, no vis por, ns.

Start 10' Wet/Dry Samples at 4270'

LM; lt to med brn, hd, blocky, scat off wh cht, tite

LM; tan to off wh, buff, fxln w/occ pellets/oolites, fair interpart por, interbdd soft chalk and chalky mtx, scat lt yel min fluor, no stn or odor, no sample shows

LM; tan to buff, off wh, f to med xln, scat gd interxln w/occ vug por, minor chalky mtx, no fluor, ns.

SH; v. dk gy/blk, carb ip. platy

LM; tan to lt brn, foss ip, hd, well cem, scat pyr

LM; lt brn, v. foss w/scat ooids/pellets, gd interpart por, rare oomoldic por, lt to med yel min fluor, no vis stn, no odor, ns.

LM; tan to lt brn, buff, highly foss/partly oolitic, gd interpart w/occ oomoldic por, much soft chalky and chalky mtx, dull/lt yel min fluor, no stn, ns.

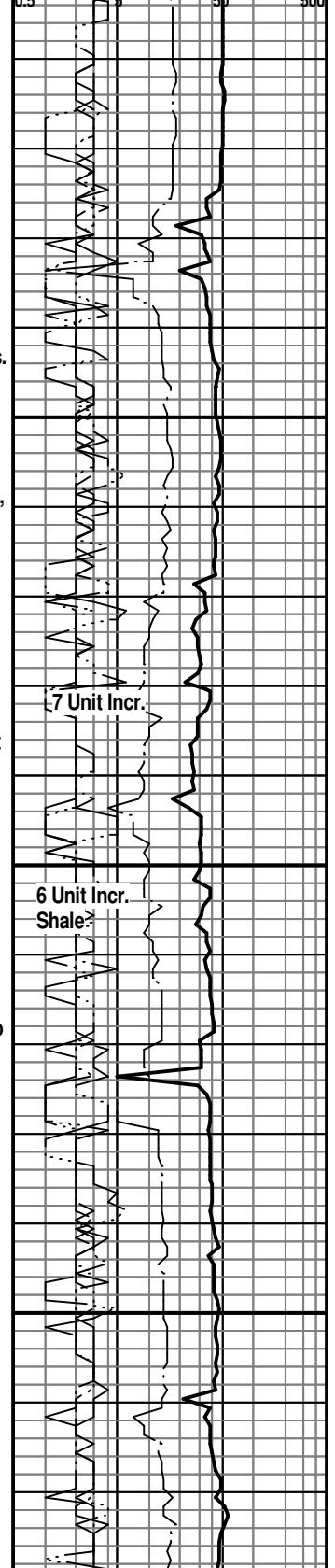
LM; lt gy, lt brn, dense, micritic, scat tan cht

LM; off wh, wh, buff, fxln to sucrosic text, v. soft ip w/fair interxln por, trc dolomitic lmst, v. dull yel/wh min fluor, minor chalky mtx, no stn, ns.

SH; grn, gy grn, platy, foss ip.

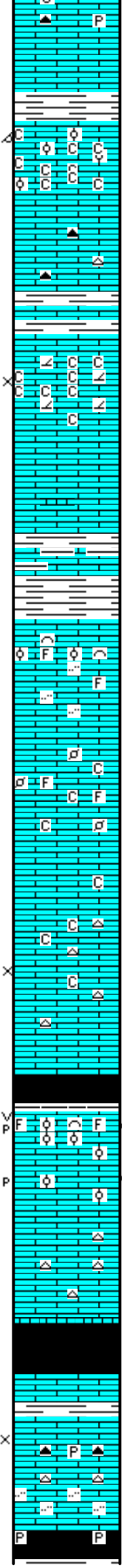
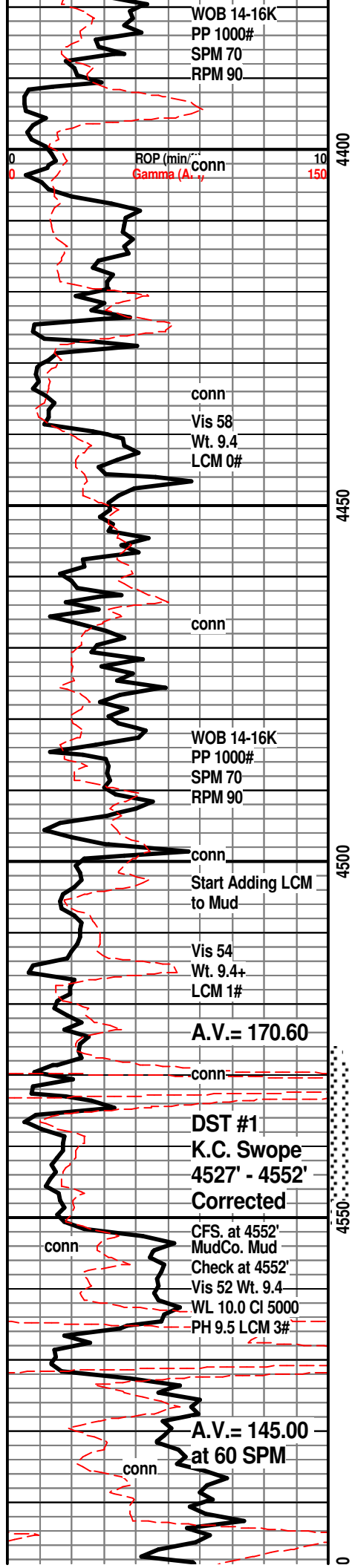
LM; med to dk brn, gy brn, hd, pyr ip, tite, rare amber

TG, C1-C5
0.5 5 50 500



7 Unit Incr.

6 Unit Incr. Shale



cht

K.C. 'H' DRUM 4396(-2576)
LM; tan to lt brn, foss - partly oolitic, small to med size moldic por(rare), much soft chalky mtx, scat dull yel fluor, no stn or odor, no gas kick

LM; med brn, micritic, occ amber/gy cht, no vis por, ns.

LM; off wh, buff, fxln, occ sucrosic text, partly dolomitic, soft, fair interxln por, chalky ip w/some very soft sticky chalk, dull yel min fluor, no stn, no sample shows

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

LM; med brn, foss w/ scat cse foss frags, scat well cem oolites, interbdd an/brn cht, no vis por, no fluor, ns.

LM; med to dk brn, dense, some gritty text, dense

LM; tan to buff, lt brn, foss w/occ pellets/scat foss hash, occ soft chalky mtx, lt yel min fluor, no stn or odor, ns.

LM; tan to cream, off wh, gran text w/occ foss mat, fair interxln/interpart por, scat lt gy/off wh cht, chalky ip, dull to occ lt yel min fluor, no stn or odor, ns.

STARK SHALE 4530(-2710)
SH; blk, carb, gassy w/fair gas odor

SWOPE 4535(-2715)
LM; tan, lt brn, foss w/well dev. vug and p-p por, gd odor, even lt brn oil stn, SFO, gas bubbles, med to brite yel fluor, gd cut
LM; tan to buff, fxln w/occ small ooids, poor/ fair p-p por, spotted dk brn oil stn, v. faint odor, some barren por

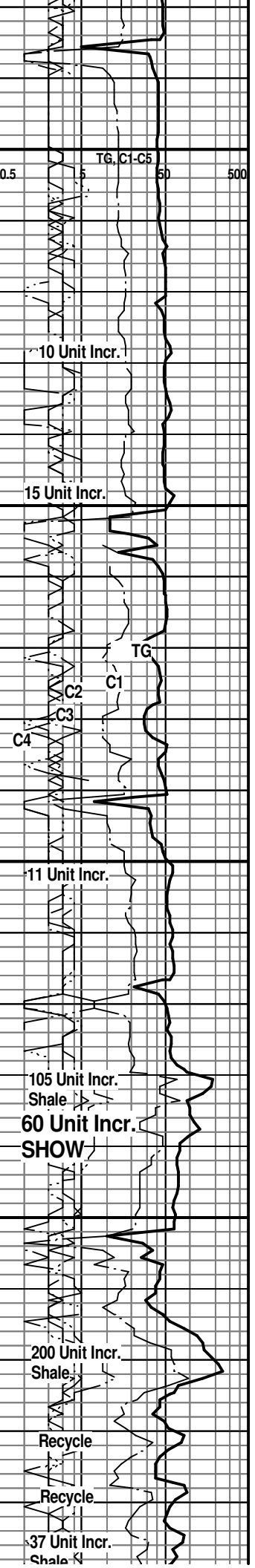
DST #1: K.C. Swope 4527' - 4552' (Corrected Depths to Loa)
NOTE: BUTTON BIT IN AT 4550'

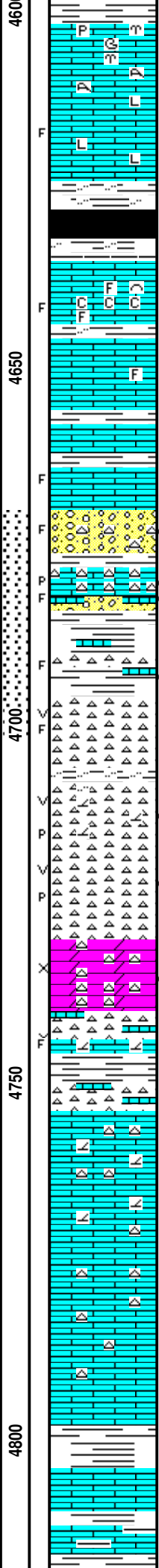
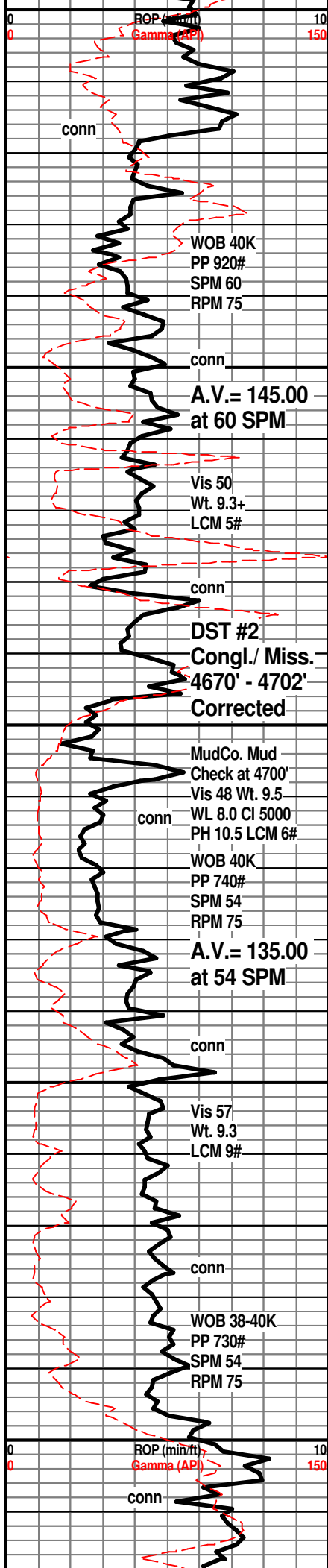
HUSHPUCKNEY SHALE 4565(-2745)
SH; blk, carb, gassy w/gas odor

HERTHA 4572(-2752)
LM; med brn, blocky, most dense - micritic, scat spar calc xtals, occ lt yel min fluor, no stn or odor, interbdd brn occ pyr cht, ns.

LM; tan to lt brn, gritty text ip, some silty, hd, no vis por, no fluor, ns.

SH; dk ov. blk. ovr ip. scat foss mat





LM; lt to med brn, foss, scat well cem corals/bryozoans, hd, no vis por, rare dull yel fluor, no stn or odor, ns.

LM; med to dk brn, hd, micritic, occ litho, no vis por, scat fracs w/spar calc on edges - appear to be closed fracs, dull yel fluor, ns.

BASE KANSAS CITY 4624(-2804)

SH; dk gy - blk, med gy grn, some varic sh, rust red, brn, silty ip.

MASSEY ZONE 4635(-2815)

LM; tan to off wh, buff, scat foss hash, well cem, scat fracs w/blk tar/gils, interbdd partly chalky lmst, no live shows, no odor, no gas kick

LM; tan to lt brn, buff, dense, micritic, blocky, no vis por, dull yel min fluor, no stn, ns.

LM; lt brn, tan, fxl to sl. sandy/gritty, few pcs. w/blk tar/gils. on frac edges, no live shows, no odor, poor cut, no other vis por

BASAL PENN. CONGL. 4670(-2850)

CONGL, LM & CHT; med/dk brn - blk, fracs w/p-p por, blk hvy oil stn, gd odor, golden yel fluor, SFO, some bleeding oil/gas bubbles, gd cut

Weath. chert and cherty lmst, much blk hvy oil stain, fair/gd odor, fracs, some bleeding oil/gas

CLEAN MISS. CHERT 4696(-2876)

CHT; wh, lt gy, tan, fresh w/scat vug por, blk tar/gils, faint odor, lt yel fluor, occ fracs

DST #2: Congl./Miss 4670'- 4702' Corrected Depths to LOG

CHT; wh, off wh, trip w/vug por, partly dolomitic, scat lt brn oil stn, gas odor, lt yel fluor

CHT; tan to off wh, tripolite, looks like popcorn, gd p-p w/scat vug por, uniform lt yel fluor, gd gas odor, lt brn spotted oil stn, gas bubbles

DOL; tan to lt brn, sucrosic, cherty, fair to gd interxln por, gas odor, gas bubbles, lt to med yel fluor, v. spotted lt brn stn

CHT; wh, off wh - lt gy, fresh, poss fracs, interbdd pale grn dolomitic lmst, no vis stn, no apparent gas kick

LM; lt gy, grn, cherty, partly dolomitic w/occ sucrosic text, blocky, no vis por, no vis oil stn, no vis gas bubbles, fair gas odor(from above ?)

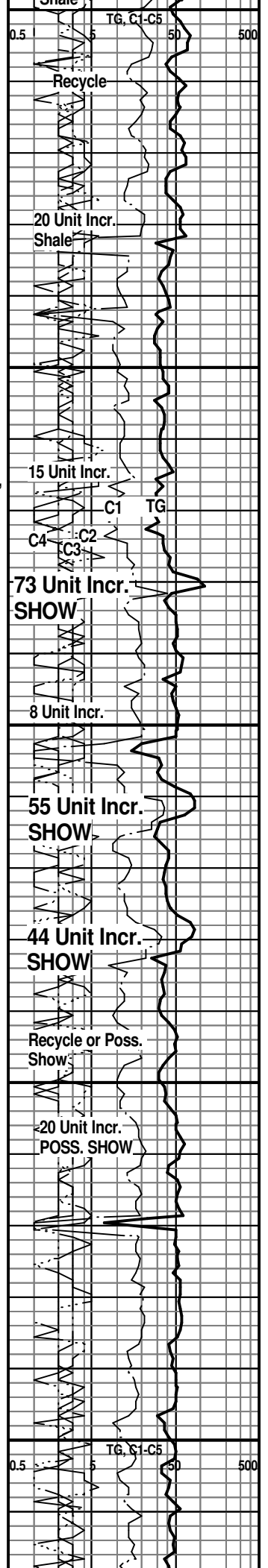
LM; off wh, tan, med to cse xln, occ lrg spar calc xtals, cherty ip, most tite, no vis por, dull yel min fluor, ns.

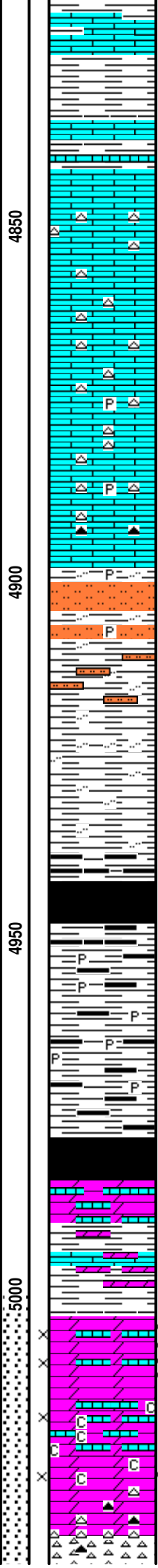
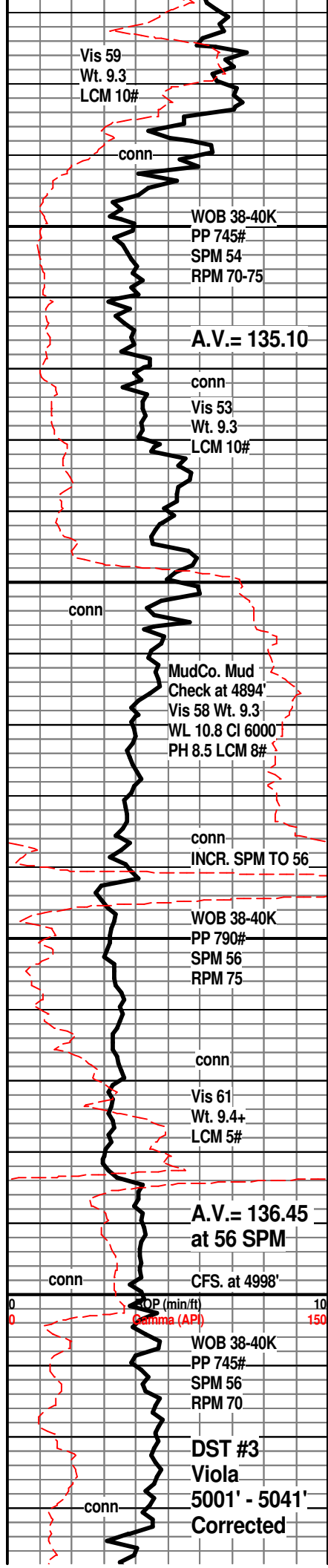
LM; lt brn, buff, dense, blocky, tite

SH; grn, gy grn, varic ip, platy

LM; red, rust red, oxidized - weathered, hd

SH; med grn, qv grn, some varic sh, interbdd qv grn





argil lmst, dense

SH; med grn, gy grn, platy, occ sticky - soft - gumbo

SH; gy grn, grn, platy, rarely silty, interbdd hd argil lmst.

LM; tan to buff, hd, scat off wh/tan fresh cht, dull yel min fluor, no vis por, ns.

LM; tan to lt brn, most dense - litho ip, scat tan to lt gy cht w/pyr incl, occ lt yel min fluor, no vis por, no stn, rare spar calc xtals, ns.

LM; lt brn, buff, dense, litho, hd, cherty ip, no vis por, no fluor, ns.

KINDERHOOK SHALE 4898(-3078)

SH; med to dk gy, occ dk gy grn, occ silty w/interbdd sltst, rare pyr.

SH; med gy, grn, silty w/interbdd sltst, firm

SH; lt to med gy, gy grn, silty, firm

WOODFORD SHALE 4942(-3122)

SH; blk, v. dk brn, carb, gassy odor, flecks of med yel fluor("spores")

SH; v. dk brn - blk, carb, occ dissem pyr, fair hydrocarbon odor

SH; dk gy brn - blk, carb, fairly strong gas/oil odor, occ flecks of med yel fluor

MISENER ZONE 4984(-3164)

LMY DOL; tan, sucrosic, mod. hd, no vis por, w/agril dolo, no fluor, no stn or odor, no gas kick

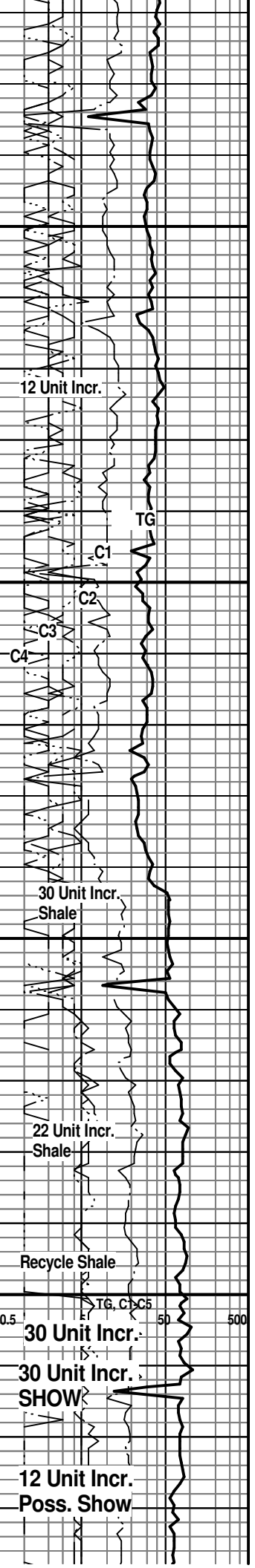
VIOLA 5003(-3183)

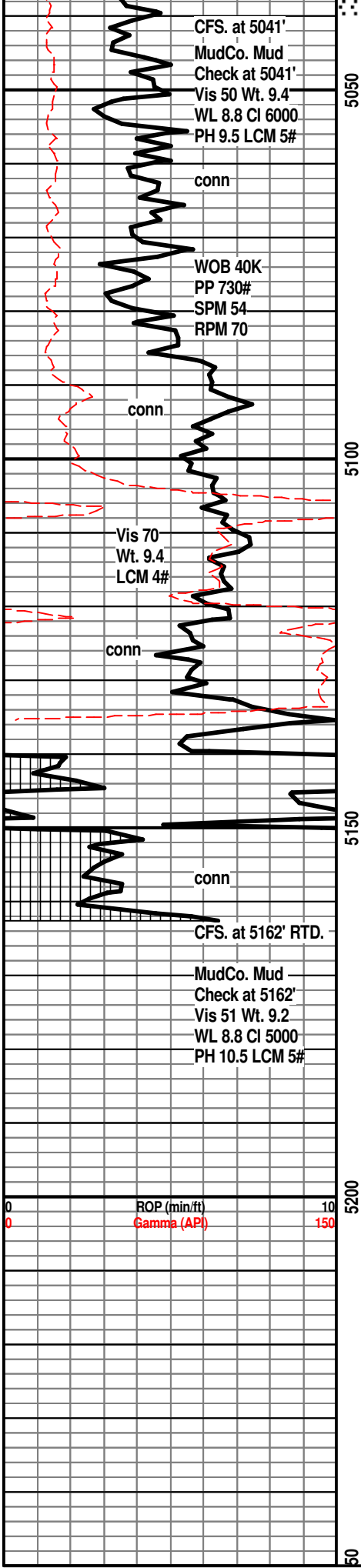
DOL; off wh, tan, lt gy, sucrosic to cse xln, interbdd cse xln dolo. lmst w/spotted to occ even lt brn oil stn, fair odor, lt yel fluor, fair interxln por, Trc. FO.

DOL; tan to lt brn, interbdd off wh partly chalky lmst, fair interxln por, some cse xln dolomitic lmst w/spotted lt brn oil stn, scat brite yel fluor, faint odor

DOL; lt brn, buff, sucrosic, cherty, most tite

CHT; lt brn, gy, fresh, hd, no vis por, no fluor, ns.





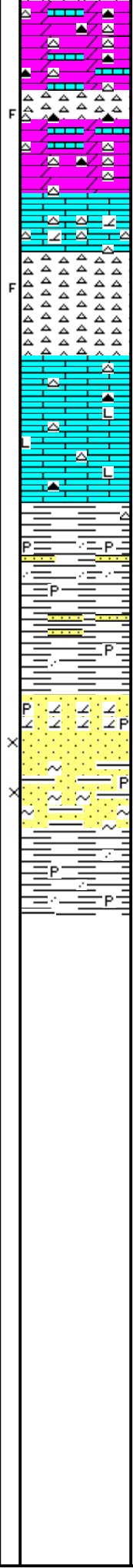
CFS. at 5041'
 MudCo. Mud
 Check at 5041'
 Vis 50 Wt. 9.4
 WL 8.8 Cl 6000
 PH 9.5 LCM 5#

WOB 40K
 PP 730#
 SPM 54
 RPM 70

Vis 70
 Wt. 9.4
 LCM 4#

CFS. at 5162' RTD.
 MudCo. Mud
 Check at 5162'
 Vis 51 Wt. 9.2
 WL 8.8 Cl 5000
 PH 10.5 LCM 5#

ROP (min/ft)
 Gamma (API)



DST #3: Viola 5001' - 5041'(Corrected Depths to Log)

DOL; med brn, v. limy w.scats gy to lt brn fresh chert, tite, no fluor, ns.
 CHT; dove gy, lt brn, fresh, poss frags
 DOL; lt brn, sucrosic, lmy ip, scat speckled gy to brn cht, no vis por, no fluor, ns.

LM; tan to lt brn, fxln, occ cherty, dolomitic, tite
 CHT; lt brn, occ dove gy, all fresh, poss frags, no vis por, no fluor, ns.

SIMPSON SHALE 5104(-3284)

SH; grn, waxy ip, occ sandy w/trc dolomitic ss - well cem, occ pyr

SIMPSON SAND 5132(-3312)

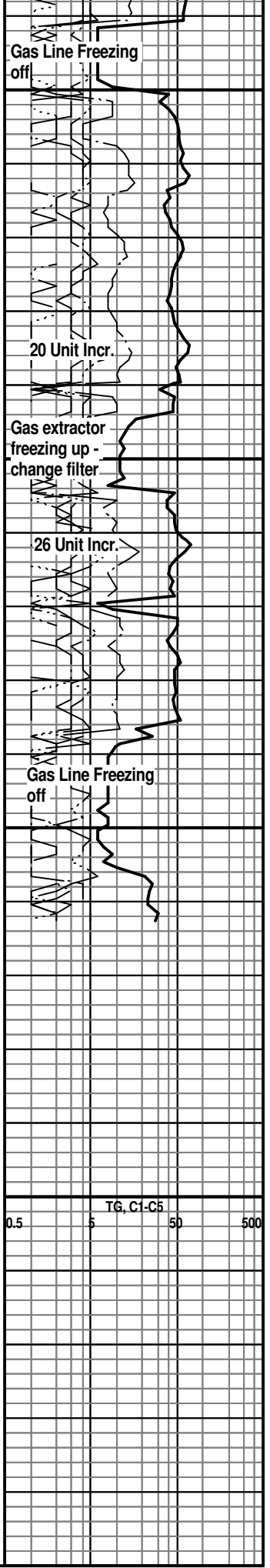
SS; lt gy, f gr, dolomitic, hd, pyr ip, poor to no intergran por, no fluor, no stn or odor, ns.
 SS; clr, med to occ cse gr, qtz, clusters, fair to gd intergran por, rnd gr, no fluor, no stn or odor, no vis gas bubbles(Gas line Frozen - no gas readings), interbdd argil brn/gy brn ss w/occ grn to blk clay(glau) inclusions

SH; sea grn to turquoise, waxy, rare pyr, sandy ip.

RTD. 5162' at 12:30 PM. 1/6/2014

LTD. 5162'
 Nabors Co.: DIL, NEU/DEN w/PE, Microlog, Sonic

NOTE: This log was shifted downward by 1' to 3' for correlation purposes with the Nabors Co. Logs



Gas Line Freezing off

20 Unit Incr.

Gas extractor freezing up - change filter

26 Unit Incr.

Gas Line Freezing off

TG, C1-C5



DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Thompson C #2-16

16-33s-13w

Start Date: 2014.01.01 @ 16:20:22

End Date: 2014.01.02 @ 02:55:22

Job Ticket #: 51913 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.08 @ 10:18:22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

16-33s-13w
Thompson C #2-16
Job Ticket: 51913 **DST#: 1**
Test Start: 2014.01.01 @ 16:20:22

GENERAL INFORMATION:

Formation: KC Swope	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Leal Cason
Time Tool Opened: 20:32:22	Unit No: 74
Time Test Ended: 02:55:22	Reference Elevations: 1820.00 ft (KB)
Interval: 4525.00 ft (KB) To 4550.00 ft (KB) (TVD)	1811.00 ft (CF)
Total Depth: 4550.00 ft (KB) (TVD)	KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

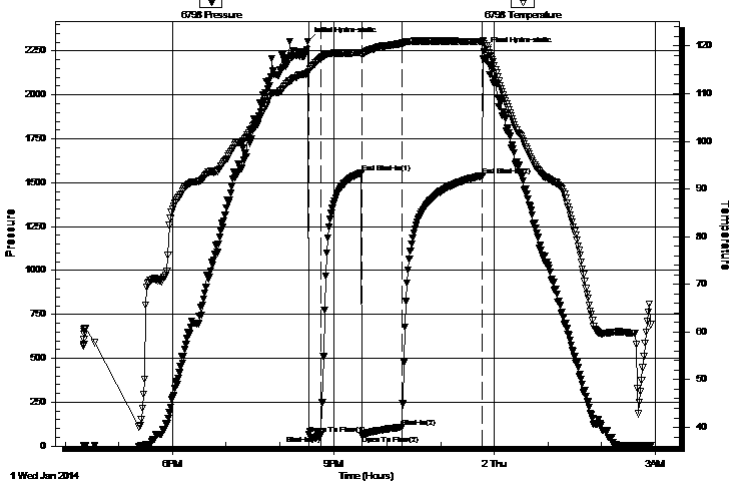
Serial #: 6798

Inside

Press@RunDepth: 108.62 psig @ 4526.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.01.01	End Date: 2014.01.02
Start Time: 16:20:23	End Time: 02:55:22
Last Calib.: 2014.01.02	Time On Btm: 2014.01.01 @ 20:31:07
Time Off Btm: 2014.01.01 @ 23:48:37	

TEST COMMENT: IF: Fair Blow, BOB in 4 minutes
IS: Blow Back Built to 1/2 inch
FF: Strong Blow, BOB in 45 seconds
FS: 1/2 inch Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2303.36	114.27	Initial Hydro-static
2	65.69	114.64	Open To Flow (1)
15	61.71	117.46	Shut-In(1)
61	1557.51	118.59	End Shut-In(1)
61	59.72	118.23	Open To Flow (2)
106	108.62	120.50	Shut-In(2)
196	1540.93	120.98	End Shut-In(2)
198	2245.58	120.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1550 GIP	0.00
120.00	SOMCW 2%O 14%M 84%W	0.59
122.00	SOCM 2%O 98%M	0.90

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

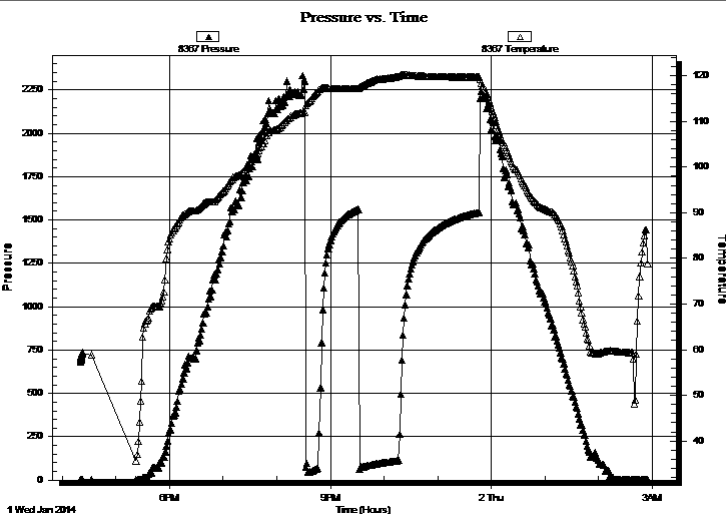
16-33s-13w
Thompson C #2-16
 Job Ticket: 51913 **DST#: 1**
 Test Start: 2014.01.01 @ 16:20:22

GENERAL INFORMATION:

Formation: **KC Swope**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:32:22
 Tester: Leal Cason
 Time Test Ended: 02:55:22
 Unit No: 74
 Interval: **4525.00 ft (KB) To 4550.00 ft (KB) (TVD)**
 Reference Elevations: 1820.00 ft (KB)
 Total Depth: 4550.00 ft (KB) (TVD)
 1811.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 9.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 4526.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.01 End Date: 2014.01.02 Last Calib.: 2014.01.02
 Start Time: 16:20:23 End Time: 02:55:37 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 4 minutes
 IS: Blow Back Built to 1/2 inch
 FF: Strong Blow , BOB in 45 seconds
 FS: 1/2 inch Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1550 GIP	0.00
120.00	SOMCW 2%O 14%M 84%W	0.59
122.00	SOCM 2%O 98%M	0.90

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-33s-13w
Thompson C #2-16
 Job Ticket: 51913 **DST#: 1**
 Test Start: 2014.01.01 @ 16:20:22

Tool Information

Drill Pipe:	Length: 4298.00 ft	Diameter: 3.80 inches	Volume: 60.29 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 209.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume: 61.32 bbl		Tool Chased ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4525.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4509.00	
Hydraulic tool	5.00			4514.00	
Safety Joint	2.00			4516.00	
Packer	5.00			4521.00	21.00 Bottom Of Top Packer
Packer	4.00			4525.00	
Stubb	1.00			4526.00	
Recorder	0.00	6798	Inside	4526.00	
Recorder	0.00	8367	Outside	4526.00	
Perforations	21.00			4547.00	
Bullnose	3.00			4550.00	25.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-33s-13w
Thompson C #2-16
Job Ticket: 51913 **DST#: 1**
Test Start: 2014.01.01 @ 16:20:22

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:	96000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1550 GIP	0.000
120.00	SOMCW 2%O 14%M 84%W	0.590
122.00	SOCM 2%O 98%M	0.901

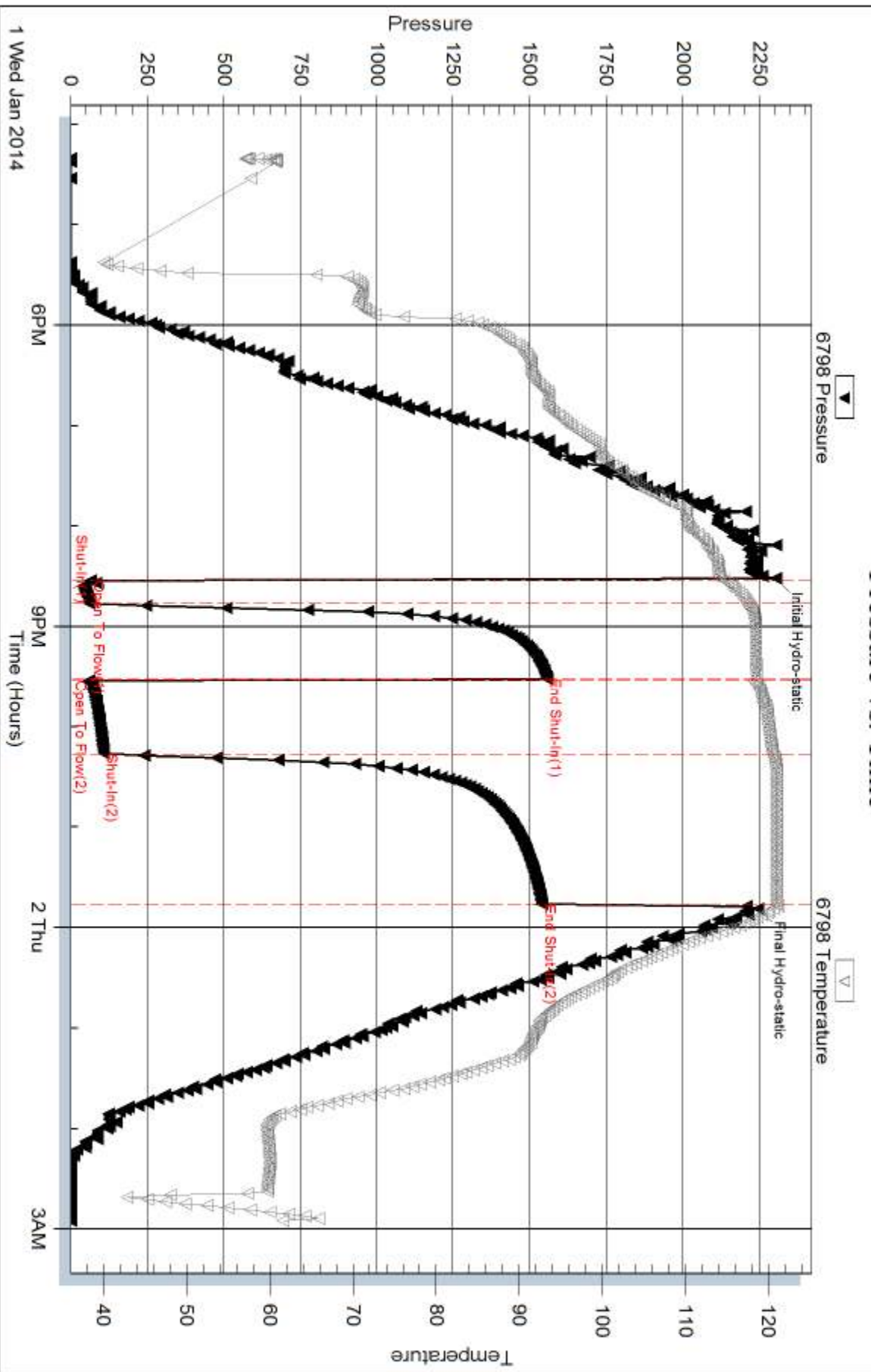
Total Length: 242.00 ft Total Volume: 1.491 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .2 @ 28 degrees

Pressure vs. Time

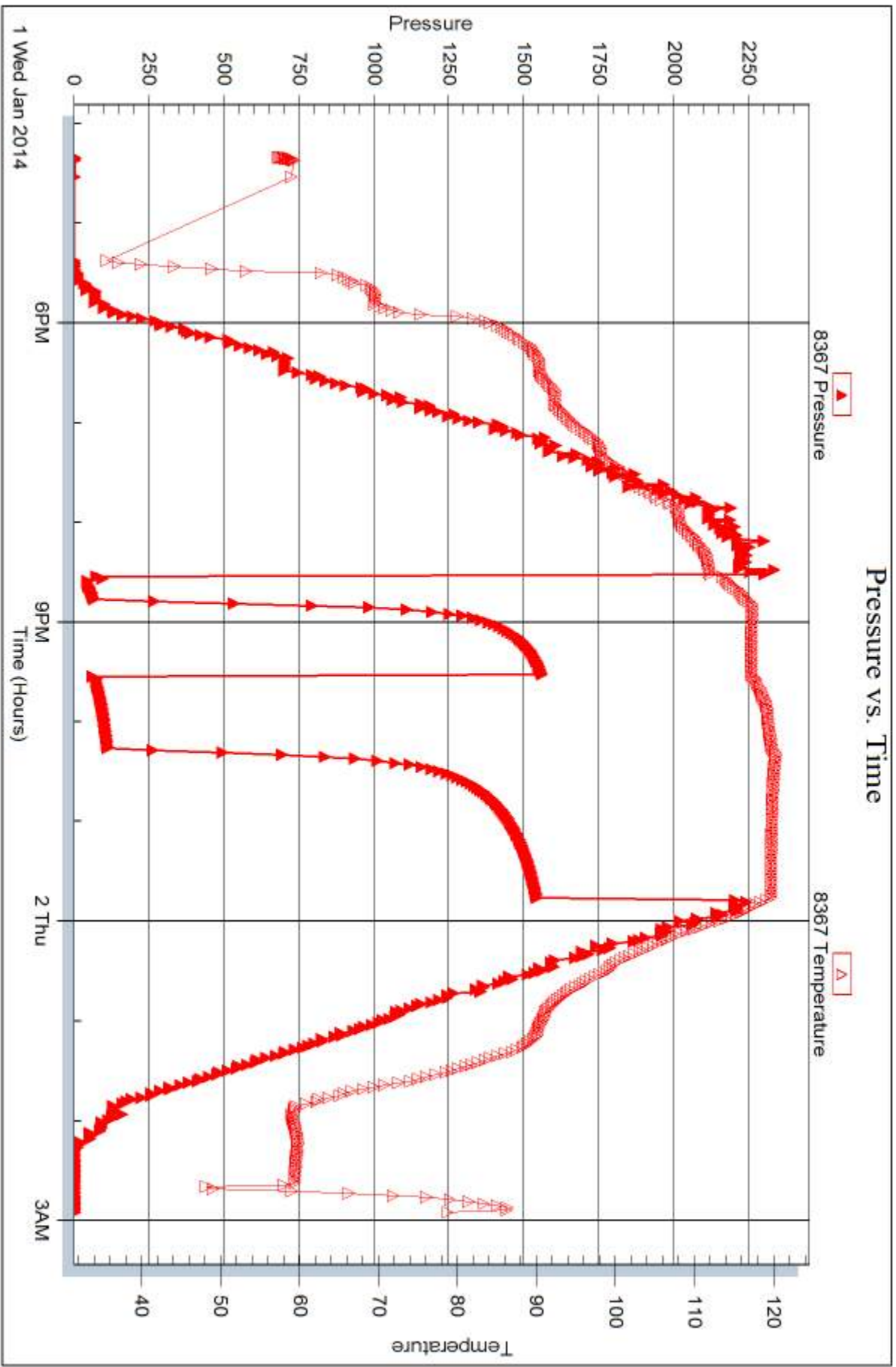


Serial #: 8367

Outside Herman L Loeb LLC

Thompson C#2-16

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Thompson C #2-16

16-33s-13w

Start Date: 2014.01.03 @ 01:25:06

End Date: 2014.01.03 @ 11:50:06

Job Ticket #: 51914 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.08 @ 10:17:52

Herman L Loeb LLC
16-33s-13w
Thompson C #2-16
DST # 2
Conglomerate
2014.01.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

16-33s-13w
Thompson C #2-16
 Job Ticket: 51914 **DST#: 2**
 Test Start: 2014.01.03 @ 01:25:06

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:27:21
 Time Test Ended: 11:50:06
 Interval: **4668.00 ft (KB) To 4700.00 ft (KB) (TVD)**
 Total Depth: 4700.00 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: 1820.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 9.00 ft

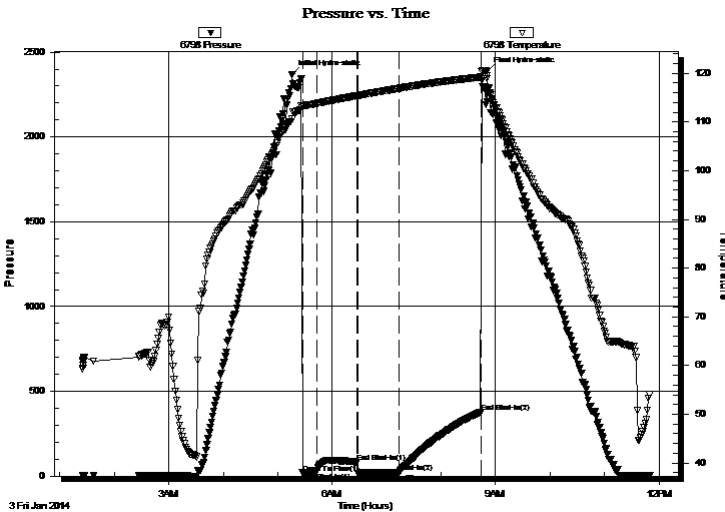
Serial #: 6798

Inside

Press@RunDepth: 23.29 psig @ 4669.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.03 End Date: 2014.01.03 Last Calib.: 2014.01.03
 Start Time: 01:25:07 End Time: 11:50:06 Time On Btm: 2014.01.03 @ 05:15:51
 Time Off Btm: 2014.01.03 @ 08:50:21

TEST COMMENT: IF: Fair Blow , Built to 6 inches
 IS: Blow Back Built to 3 inches
 FF: Fair Blow , Built to 6 inches
 FS: 1 inch Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.95	110.55	Initial Hydro-static
12	17.39	113.32	Open To Flow (1)
27	20.05	113.77	Shut-In(1)
72	82.18	115.40	End Shut-In(1)
73	18.55	115.40	Open To Flow (2)
118	23.29	116.89	Shut-In(2)
208	378.65	119.21	End Shut-In(2)
215	2387.36	119.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2316 GIP	0.00
15.00	VSOCM-1% O +99%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-33s-13w
Thompson C #2-16
 Job Ticket: 51914 **DST#: 2**
 Test Start: 2014.01.03 @ 01:25:06

Tool Information

Drill Pipe:	Length: 4457.00 ft	Diameter: 3.80 inches	Volume: 62.52 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 209.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 63.55 bbl		Tool Chased: ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4668.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4652.00	
Hydraulic tool	5.00			4657.00	
Safety Joint	2.00			4659.00	
Packer	5.00			4664.00	21.00 Bottom Of Top Packer
Packer	4.00			4668.00	
Stubb	1.00			4669.00	
Recorder	0.00	6798	Inside	4669.00	
Recorder	0.00	8367	Outside	4669.00	
Perforations	28.00			4697.00	
Bullnose	3.00			4700.00	32.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-33s-13w
Thompson C #2-16
 Job Ticket: 51914 **DST#: 2**
 Test Start: 2014.01.03 @ 01:25:06

Mud and Cushion Information

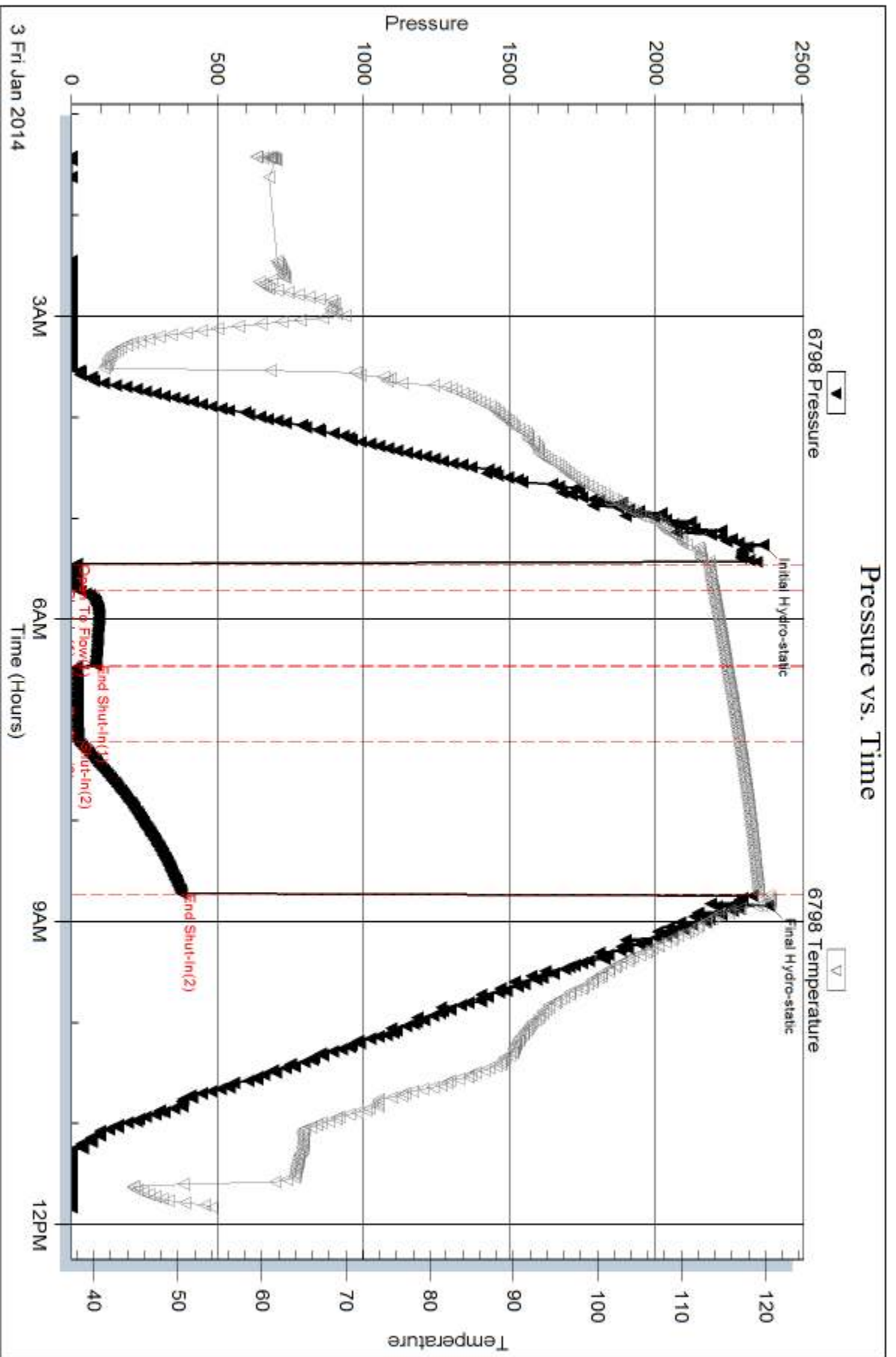
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2316 GIP	0.000
15.00	VSOCM-1% O +99%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



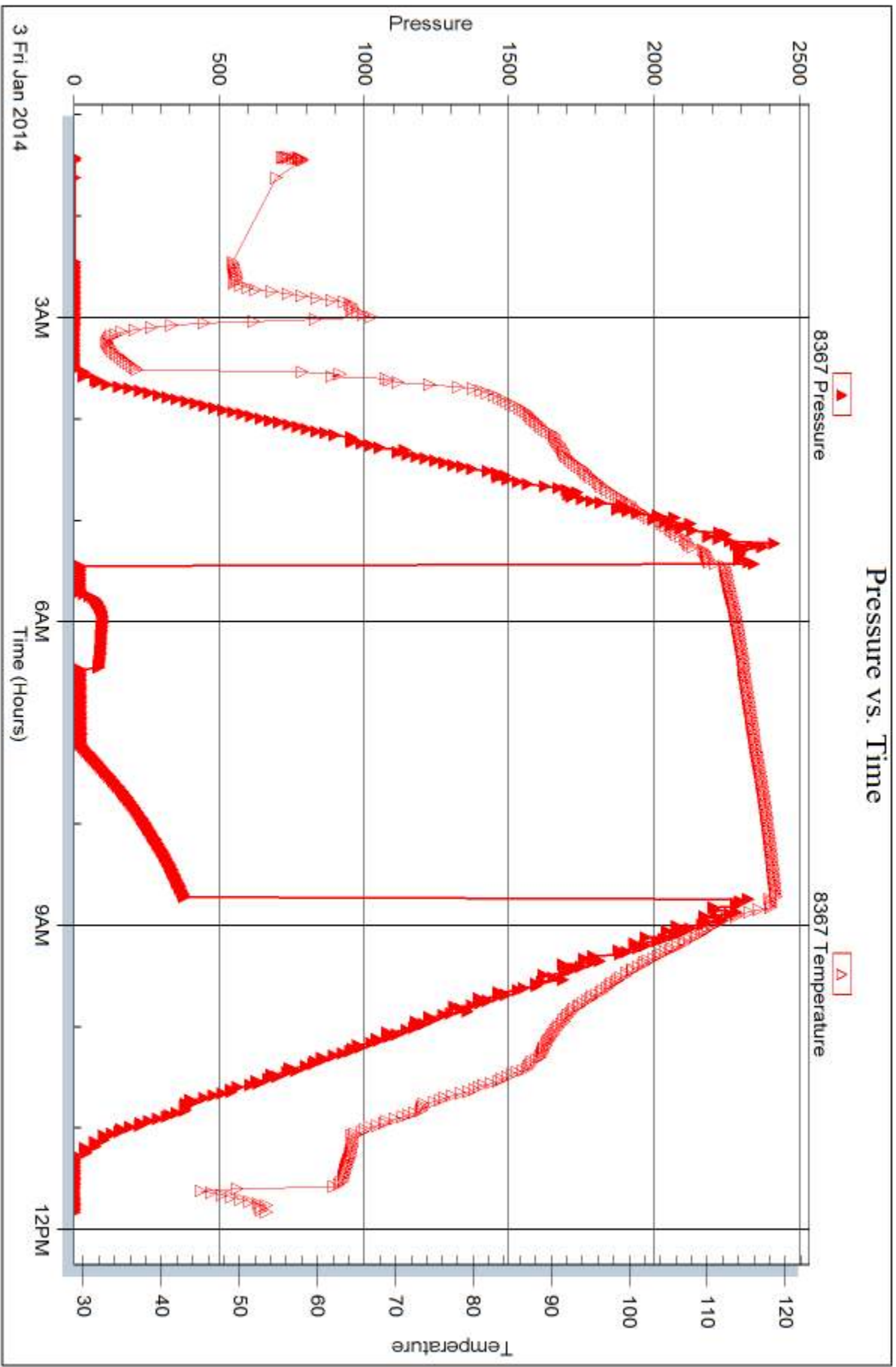
Serial #: 8367

Outside

Herman L Loeb LLC

Thompson C#2-16

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 51914

Printed: 2014.01.08 @ 10:17:54



DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb LLC**

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Thompson C #2-16

16-33s-13w

Start Date: 2014.01.05 @ 06:58:37

End Date: 2014.01.05 @ 15:33:22

Job Ticket #: 51915 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.08 @ 10:17:09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

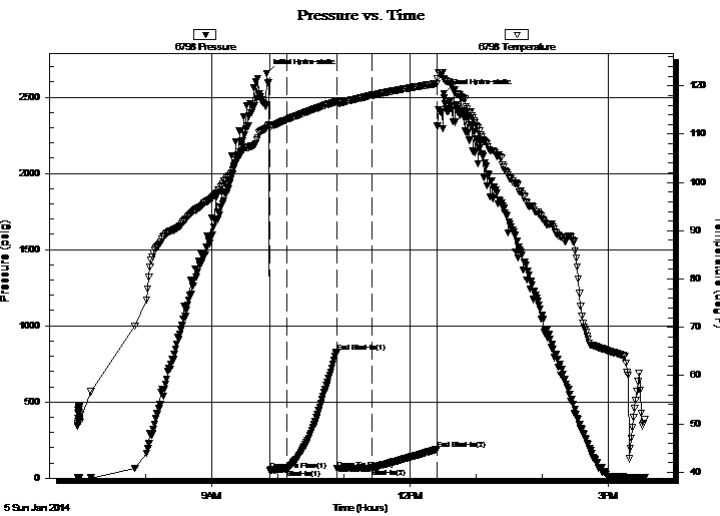
16-33s-13w
Thompson C #2-16
 Job Ticket: 51915 **DST#: 3**
 Test Start: 2014.01.05 @ 06:58:37

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:52:52
 Tester: Leal Cason
 Time Test Ended: 15:33:22
 Unit No: 74
Interval: 5000.00 ft (KB) To 5040.00 ft (KB) (TVD)
 Reference Elevations: 1820.00 ft (KB)
 Total Depth: 5040.00 ft (KB) (TVD) 1811.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 9.00 ft

Serial #: 6798 **Inside**
 Press@RunDepth: 67.53 psig @ 5001.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.05 End Date: 2014.01.05 Last Calib.: 2014.01.05
 Start Time: 06:58:38 End Time: 15:33:22 Time On Btm: 2014.01.05 @ 09:50:22
 Time Off Btm: 2014.01.05 @ 12:31:07

TEST COMMENT: IF: Weak 3/4 inch Blow
 IS: No Blow Back
 FF: Weak 1/4 inch Blow
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2656.56	111.34	Initial Hydro-static
3	52.37	111.54	Open To Flow (1)
19	60.84	113.00	Shut-In(1)
64	827.53	116.74	End Shut-In(1)
64	60.72	116.47	Open To Flow (2)
95	67.53	118.01	Shut-In(2)
155	190.26	120.48	End Shut-In(2)
161	2525.76	121.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SGCM 2%G 98%M	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

16-33s-13w
Thompson C #2-16
 Job Ticket: 51915 **DST#: 3**
 Test Start: 2014.01.05 @ 06:58:37

Tool Information

Drill Pipe:	Length: 4776.00 ft	Diameter: 3.80 inches	Volume: 66.99 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 209.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 68.02 bbl		Tool Chased: ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 95000.00 lb
Depth to Top Packer:	5000.00 ft			Final 95000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4984.00	
Hydraulic tool	5.00			4989.00	
Safety Joint	2.00			4991.00	
Packer	5.00			4996.00	21.00 Bottom Of Top Packer
Packer	4.00			5000.00	
Stubb	1.00			5001.00	
Recorder	0.00	6798	Inside	5001.00	
Recorder	0.00	8367	Outside	5001.00	
Perforations	2.00			5003.00	
Change Over Sub	1.00			5004.00	
Drill Pipe	32.00			5036.00	
Change Over Sub	1.00			5037.00	
Bullnose	3.00			5040.00	40.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

16-33s-13w
Thompson C #2-16
 Job Ticket: 51915 **DST#: 3**
 Test Start: 2014.01.05 @ 06:58:37

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

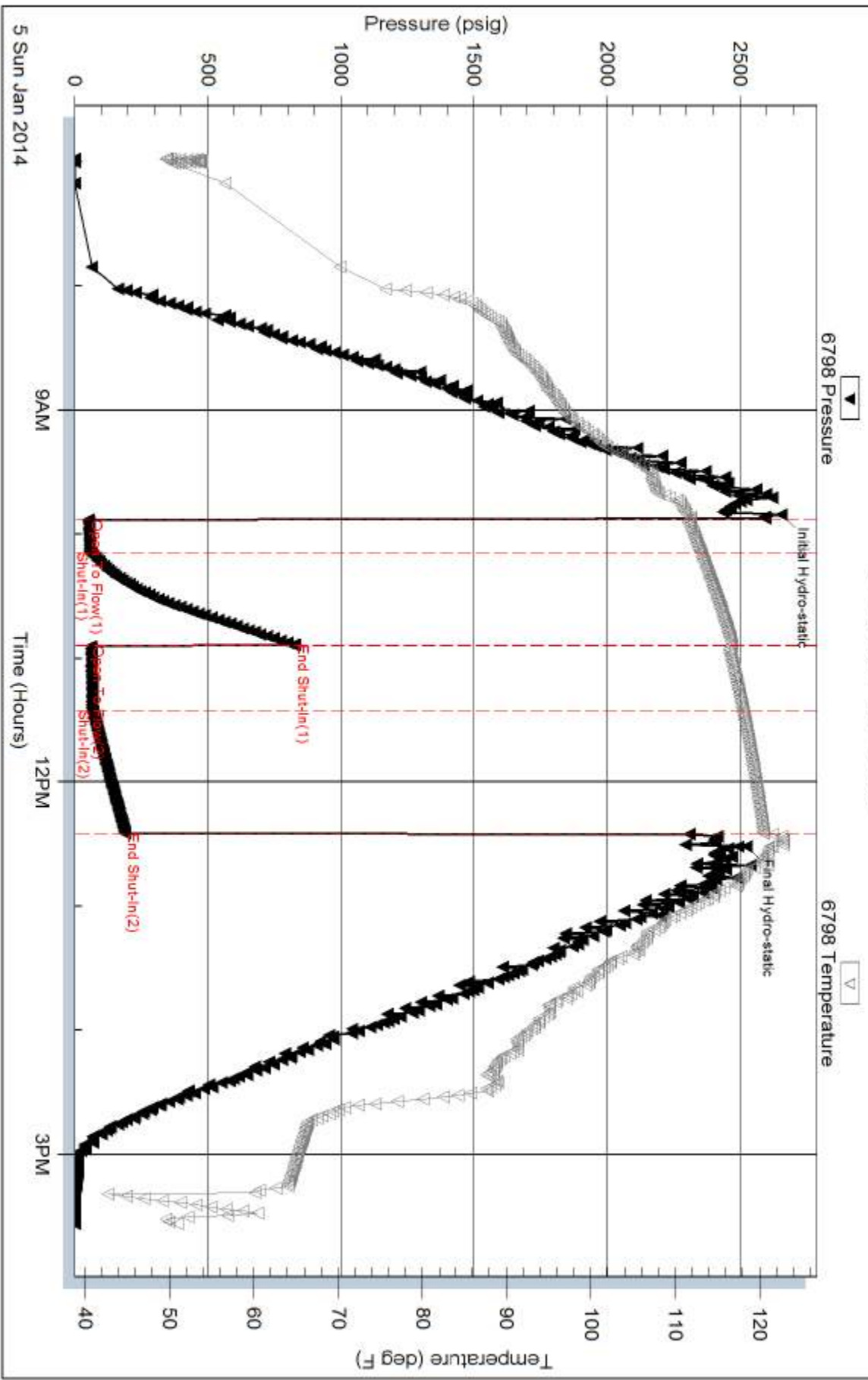
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SGCM 2%G 98%M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

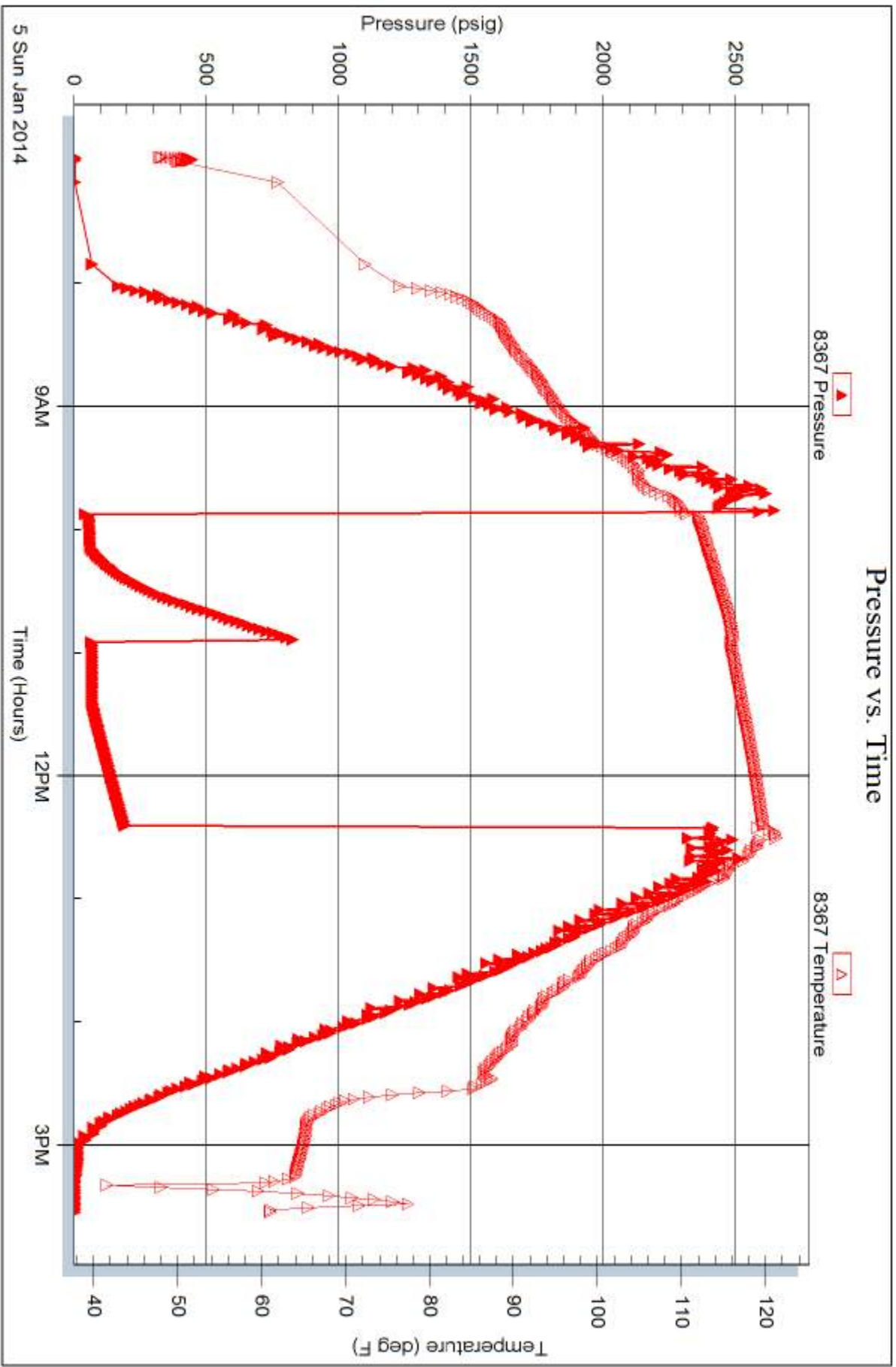


Serial #: 8367

Outside Herman L Loeb LLC

Thompson C#2-16

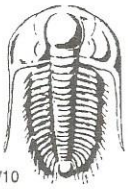
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 51915

Printed: 2014.01.08 @ 10:17:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51913

Well Name & No. Thompson C 2-16 Test No. 1 Date 01/01/14
 Company Herman L. Loeb LLC Elevation 1720 KB 1811 GL
 Address PO Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling 4
 Location: Sec. 16 Twp. 33S Rge. 13W Co. Barber State KS

Interval Tested 4525 - 4550 Zone Tested KC Swope
 Anchor Length 25 Drill Pipe Run 4298 Mud Wt. 9.4
 Top Packer Depth 4520 Drill Collars Run 209 Vis 52
 Bottom Packer Depth 4525 Wt. Pipe Run 0 WL 10.0
 Total Depth 4550 Chlorides 5000 ppm System LCM 3

Blow Description IF: Fair Blow, BOB in 4 minutes
ISI: Blow Back Built to 1/2 inch
FF: Strong Blow, BOB in 45 ~~seconds~~ seconds
FSI: 1/2 inch Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1550</u>	<u>GIP</u>				
<u>122</u>	<u>50CM</u>		<u>2</u>		<u>98</u>
<u>120</u>	<u>50MCW</u>		<u>2</u>	<u>84</u>	<u>14</u>

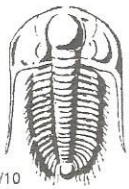
Rec Total 242 BHT 120 Gravity N/C API RW .2 @ 28 ° F Chlorides 96000 ppm

(A) Initial Hydrostatic 2303 Test 1250 T-On Location 14:15
 (B) First Initial Flow 66 Jars _____ T-Started 16:20
 (C) First Final Flow 62 Safety Joint 75 T-Open 20:32
 (D) Initial Shut-In 1557 Circ Sub _____ T-Pulled 23:46
 (E) Second Initial Flow 60 Hourly Standby 3 .75h 75 T-Out 02:55
 (F) Second Final Flow 109 Mileage 120 186
 (G) Final Shut-In 1541 Sampler _____
 (H) Final Hydrostatic 2246 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 15 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 90 Accessibility _____
 Sub Total 1586 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost, by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51914

4/10

Well Name & No. Thompson C 2-16 Test No. 2 Date 01/03/14
 Company Herman L Loeb LLC Elevation 1820 KB 1811 GL
 Address Po Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig sterling 4
 Location: Sec. 16 Twp. 33S Rge. 13W Co. Barber State KS

Interval Tested 4668 - 4700 Zone Tested conglomerate
 Anchor Length 32 Drill Pipe Run 4457 Mud Wt. 9.3
 Top Packer Depth 4663 Drill Collars Run 209 Vis 51
 Bottom Packer Depth 4668 Wt. Pipe Run 0 WL 11.2
 Total Depth 4700 Chlorides 5000 ppm System LCM 6

Blow Description IF: Fair Blow Built to 6 inches
ISI: Blow Back Built to 3 inches
FF: Fair Blow, Built to 6 inches
FSI: 1 inch Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2316</u>	<u>GIP</u>				
<u>15</u>	<u>VSOCM</u>		<u>-1</u>	<u>+99</u>	

Rec Total 15 BHT 120 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

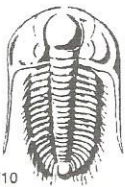
(A) Initial Hydrostatic	<u>2368</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>00:00</u>
(B) First Initial Flow	<u>17</u>	<input type="checkbox"/> Jars		T-Started	<u>01:25</u>
(C) First Final Flow	<u>20</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>05:27</u>
(D) Initial Shut-In	<u>82</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>08:43</u>
(E) Second Initial Flow	<u>18</u>	<input checked="" type="checkbox"/> Hourly Standby	<u>2</u> .5h <u>50</u>	T-Out	<u>11:50</u>
(F) Second Final Flow	<u>23</u>	<input checked="" type="checkbox"/> Mileage	<u>120</u> <u>186</u>	Comments	
(G) Final Shut-In	<u>379</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2387</u>	<input type="checkbox"/> Straddle			

<input type="checkbox"/> Ruined Shale Packer	
<input type="checkbox"/> Ruined Packer	
<input type="checkbox"/> Extra Copies	
Sub Total	<u>0</u>
Total	<u>1561</u>
MP/DST Disc't	
Sub Total	<u>1561</u>

Approved By [Signature]

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51915

Well Name & No. Thompson C2-16 Test No. 3 Date 01/05/14
 Company Herman & Loeb LLC Elevation 1820 KB 1811 GL
 Address PO Box 838 Lawrenceville IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling 4
 Location: Sec. 16 Twp. 33S Rge. 13W Co. Barber State KS

Interval Tested 5000 - 5040 Zone Tested viola
 Anchor Length 40 Drill Pipe Run 4776 Mud Wt. 9.3
 Top Packer Depth 4995 Drill Collars Run 209 Vis 58
 Bottom Packer Depth 5000 Wt. Pipe Run 0 WL 610.8
 Total Depth 5040 Chlorides 6000 ppm System LCM 8#

Blow Description IF: weak 3/4 inch Blow
IST: NO Blow Back
FF: weak 1/4 inch Blow
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>SGCM</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 120 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 2656 Test 1350 T-On Location 05:45
 (B) First Initial Flow 52 Jars _____ T-Started 06:58
 (C) First Final Flow 61 Safety Joint 75 T-Open 09:52
 (D) Initial Shut-In 827 Circ Sub _____ T-Pulled 12:25
 (E) Second Initial Flow 61 Hourly Standby _____ T-Out 15:33
 (F) Second Final Flow 68 Mileage 120 186 Comments _____
 (G) Final Shut-In 190 Sampler _____
 (H) Final Hydrostatic 2526 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 15
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60
 Extra Packer _____
 Extra Recorder _____
 Day Standby 3/4 1d 18h
 Accessibility _____
 Sub Total 1611
 Sub Total 600
 Total 2211
 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

4122
TDeThompC
6439

Barber ✓

INVOICE

Invoice Number: 140582
Invoice Date: Dec 27, 2013
Page: 1

Bill To:

Herman L. Loeb LLC
5518 S Oil Center Road
Great Bend, KS 67530

Customer ID	Field Ticket #	Payment Terms	
Loeb	62287	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Medicine Lodge	Dec 27, 2013	1/26/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Thompson C #2-16		
300.00	CEMENT MATERIALS	Class A Common	17.90	5,370.00
10.57	CEMENT MATERIALS	Chloride	64.00	676.48
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
320.00	CEMENT SERVICE	Cubic Feet Charge	2.48	793.60
291.20	CEMENT SERVICE	Ton Mileage Charge	2.60	757.12
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	CEMENT SUPERVISOR	Carl Balding		
1.00	CEMENT SUPERVISOR	Ron Gilley		
1.00	OPERATOR ASSISTANT	Carl Rackley		

PAID
46521
JAN 17 2014

SCANNED

Subtotal	9,574.20
Sales Tax	448.25
Total Invoice Amount	10,022.45
Payment/Credit Applied	
TOTAL	10,022.45

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1,914.85

ONLY IF PAID ON OR BEFORE
Jan 21, 2014

8107.60

4122

ALLIED OIL & GAS SERVICES, LLC 062287

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge, KS

DATE <u>12/27/13</u>	SEC <u>B3</u>	TWP <u>33S</u>	RANGE <u>13W</u>	CALLED OUT <u>6:30 PM</u>	ON LOCATION <u>7:15 PM</u>	JOB START <u>9:15 E</u>	JOB FINISH <u>9:45 P</u>
LEASE <u>Thompson</u>	WELL # <u>C-2-16</u>		LOCATION <u>160 + 6 by Mill Rd. south to Union Chapel</u>		COUNTY <u>Barker</u>	STATE <u>Kansas</u>	
OLD OR <u>NEW</u> (Circle one)			2.6 west to 4510 on N/S 2.3 north to top of Hill 20 yards east follow Rd. to location				
CONTRACTOR <u>Sterling #4</u>				OWNER <u>Herman Koch</u>			
TYPE OF JOB <u>Surface</u>				CEMENT AMOUNT ORDERED <u>300 ex Class A + 37 cc + 1/4" Floscal</u>			
HOLE SIZE <u>17 1/2"</u>	T.D. <u>245'</u>	CASING SIZE <u>13 3/8"</u>		DEPTH <u>245'</u>		COMMON <u>Class A 300 @ 17.90 5370.00</u>	
TUBING SIZE	DEPTH	DRILL PIPE		DEPTH		POZMIX @	
TOOL	DEPTH	PRES. MAX <u>200</u>		MINIMUM		GEL @	
MEAS. LINE	SHOE JOINT	CEMENT LEFT IN CSG.		PERFS.		CHLORIDE <u>10-57</u> @ <u>64.00 676.48</u>	
DISPLACEMENT <u>35% Bbls Freshwater</u>				ASC @			
EQUIPMENT				<u>Floscal 75 #</u> @ <u>2.97 222.75</u>			
PUMP TRUCK # <u>471-265</u>	CEMENTER <u>Carl Balding</u>	HELPER <u>Ron Gilley</u>		HANDLING <u>320</u>		@ <u>2.48 793.60</u>	
BULK TRUCK # <u>364</u>	DRIVER <u>Carl Packley</u>			MILEAGE <u>14.36/20/2.60</u>		@ <u>757.14</u>	
BULK TRUCK #	DRIVER			TOTAL		<u>7819.97</u>	

REMARKS:
Run 245' 13 3/8 casing + 11' 8 3/8"
Break circulation w/ Rig
Temp 5 Bbls Freshwater
Mix 300 ex Class A + 37 cc + 1/4" Floscal
Displace with 35% Bbls water
leave 20' cement in pipe + shut in
Cement did circulate

CHARGE TO: Herman Koch
 STREET: PAT
 CITY: _____ STATE: _____ ZIP: _____
 JAN 17 2014

SCANNED

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LANNY SALOGA
 SIGNATURE Lanny Saloga

SERVICE		
DEPTH OF JOB	<u>245'</u>	
PUMP TRUCK CHARGE	<u>1512.25</u>	
EXTRA FOOTAGE	@	
MILEAGE	<u>20</u>	@ <u>7.70 154.00</u>
MANIFOLD	@	
<u>1U 20</u>	@	<u>4.40 88.00</u>
TOTAL		<u>1754.25</u>

PLUG & FLOAT EQUIPMENT		
	@	
	@	
	@	
	@	
	@	
TOTAL		

SALES TAX (If Any) _____
 TOTAL CHARGES 9574.22
 DISCOUNT _____ IF PAID IN 30 DAYS
(NET) 7659.37



6076
706 Tromp C
6438

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	01/11/2014
INVOICE NUMBER		
1718 - 91381678		

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 Thompson C 2-16
 O B LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40679892	19905		Net - 30 days	02/10/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 01/07/2014 to 01/07/2014</i>				
0040679892				
171809834A Cement-New Well Casing/Pi 01/07/2014				
Cement 4 1/2" Longstring				
50/50 POZ	300.00	EA	8.25	2,474.99 T
Celloflake	75.00	EA	2.78	208.13 T
Gypsum	1,260.00	EA	0.56	708.75 T
FLA-322	126.00	EA	5.63	708.75 T
Gilsonite	1,800.00	EA	0.50	904.50 T
Mud Flush	1,000.00	EA	0.65	645.00 T
KCL Potassium Chloride	680.00	EA	1.13	765.00 T
Claymax KCL Substiute	4.00	EA	26.25	105.00 T
"Latch Down Plug & Baffle, 4 1/2" (Blu	1.00	EA	277.50	277.50
"Auto Fill Float Shoe 4 1/2" (Blue)"	1.00	EA	247.50	247.50
"Turbolizer, 4 1/2" (Blue)"	12.00	EA	63.75	765.00
4 1/2" Basket(Blue)	2.00	EA	202.50	405.00
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	3.19	159.38
Heavy Equipment Mileagc	100.00	MI	5.25	525.00
"Proppant & Bulk Del. Chgs., per ton mil	630.00	EA	1.20	756.00
Depth Charge; 5001-6000'	1.00	EA	2,160.00	2,160.00
Blending & Mixing Service Charge	300.00	BAG	1.05	315.00
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs.on loc. ;	1.00	EA	131.25	131.25

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,449.25
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	466.19
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,915.44
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES

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

FIELD SERVICE TICKET

1718 - 100 A

PRESSURE PUMPING & WIRELINE

16-335-13W

DATE _____ TICKET NO. _____

DATE OF JOB 1-7-14 DISTRICT Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Herman L Loeb, LLC		LEASE Thompson C WELL NO 2-16							
ADDRESS		COUNTY Barber STATE Kansas							
CITY STATE		SERVICE CREW C. Messick: M. McGraw: J. Hanson							
AUTHORIZED BY		JOB TYPE: C.M.W. - Longstring							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	1.25						1-7-14	PM	12:15
						ARRIVED AT JOB		AM	3:30
77,686	19,905	125				START OPERATION		AM	9:00
						FINISH OPERATION		AM	10:15
19,960-21,010	125					RELEASED	1-7-14	AM	10:30
						MILES FROM STATION TO WELL			50

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, 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
P CP 104	50/50 Poz Blend Cement	SH	250	\$	2,750.00
P CP 104	50/50 Poz Blend Cement	SH	50	\$	550.00
P CC 102	Cellflake	Lb	75	\$	2,775.00
P CC 113	Gypsum	Lb	1,260	\$	945.00
P CC 129	Fluid Loss	Lb	126	\$	945.00
P CC 201	Gilsonite	Lb	1,800	\$	1,206.00
P C TOU	Potassium Chloride	Lb	680	\$	1,020.00
P CF 606	Latch Down Plug and Baffles, 4 1/2"	ea	1	\$	370.00
P CF 1250	Auto Fill Float Shoe, 4 1/2"	ea	1	\$	330.00
P CF 1650	Turbolizer, 4 1/2"	ea	12	\$	1,020.00
P CF 1900	Basket, 4 1/2"	ea	2	\$	540.00
P C TO4	Claymax	Gal	4	\$	140.00
P CF 151	Mud Flush	Gal	1,000	\$	860.00

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46757
JAN 23 2014

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CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
---	--

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



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 ~~1718~~ A
Continuation

16-335-13W

DATE _____ TICKET NO. 9834

DATE OF JOB: 1-7-14		DISTRICT: Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:		
CUSTOMER: Herman L. Loeb, LLC				LEASE: Thompson C				WELL NO: 2-16		
ADDRESS:				COUNTY: Barber		STATE: Kansas				
CITY:				STATE:		SERVICE CREW: C. Messick, M. McGraw, J. Hopper				
AUTHORIZED BY:				JOB TYPE: C.A.W. Longstring						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						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
P E100	Pickup Mileage	m.	50	\$	212.50
P E101	Heavy Equipment Mileage	m.	100	\$	700.00
P E113	Bulk Delivery	tm	630	\$	1,008.00
P CE206	Cement Pump: 500 Feet To 6,000 Feet	hrs	4	\$	2,980.00
P CE240	Blending and Mixing Service	str	300	\$	420.00
P CE504	Plug Containers	Job	1	\$	250.00
P 5003	Service Supervisor	hrs	8	\$	175.00

46757
JAN 23 2014

SCANNED

CHEMICAL / ACID DATA:			

SUB TOTAL		\$ 12,449.25
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
--	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer Herman L Louk LLC	Lease No.	Date 1-7-14
Lease Thompson C	Well # 2-16	
Field Order # 9834	Station Pratt, Kansas	Casing 4 1/2" 11.6lb
		Depth 5045F
Type Job C/W - Longstring	Formation	County Barber
		State Kansas
		Legal Description 16-335-13W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 4 1/2" 11.6lb	Tubing Size 6 1/2"	Shots/Ft 250 sacks		ACTO 50/50 Poz Blend	with 2% T	RATE 6.1 gal/stk	PRESS 586 psi
Depth 455F	Depth	From 586	To 586	25 lb/stk	Max 6.1 gal/stk	Min 1.35 CU	ISIP 5 Min
Volume 78.2 Bbl	Volume	From	To	14 lb/gal, 5.4	Min 2 gal/stk		10 Min 1.15 ft
Max Press 1500 P.S.I.	Max Press	From	To		Avg		15 Min.
Well Connection 1 1/2" Central	Annulus Vol.	From Additional sacks of above blend			HHP Used 3		Annulus Pressure (20-30) psi
Plug Depth 5045F	Packer Depth	From	To	77.9 Bbl. Flush	Gas Volume 78.2 Bbl. 28		Total Load

Customer Representative Alan Vratil	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 57216	77696	14905
Driver Names Messick	Mc Graw	Hanson

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:30					Cement and Float Equipment on locat
4:30					Trucks on location and h
5:00					Start drilling start to run into fill float
					Down Baffle screw into collar and new 11.6 lb/ft
					4 1/2 casing / float was install. Land # 10 A Tub. liner
					was installed on collar # 36 T.S. 1 10 11 22 24 and # 25
8:15					Circulate well for 45 minutes
9:03		2000			Shut in well. Pressure Test. Open Well.
9:09				6	Start Freshwater Flush
			20	6	Start mud flush
			44	6	Start Freshwater spacer
9:17	350		64	5	Start mixing 250 sacks 50/50 Poz cement
			124		Stop pumping shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
9:35	150			6.5	Start 29 HCL Displacement.
9:44			49	5	Start to lift cement.
9:50	600		78		Plum down.
	1500				Pressure up.
					Release pressure Float shoe held.
			7-9	3	Plug Rat and Mouse holes.
					Wash up pump truck.
10:30					Tub. complete