Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1142497

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 # 3273
Name: HERMAN L. LOEB, LLC
Address 1: PO BOX 838
Address 2:
City: LAWRENCEVILLE State: IL Zip: 62439 + _ _ _ _
Contact Person: Jesse Middagh
Phone: (618) 943-2227
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jon Christensen / James Hall
Purchaser: To Be Determined

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 #:

05/13/2013	05/23/2013	07/02/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-097-21754-00-00
Spot Description:
NW_SW_SE_SE Sec. 18 Twp. 27 S. R. 18 ☐ East ☑ West
335 Feet from ☐ North / ☑ South Line of Section
1022 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Kiowa
Lease Name: BLESSED ACRES Well #: 2-18
Field Name: WILDCAT
Producing Formation: Mississippian Cong. Chert
Elevation: Ground: 2186 Kelly Bushing: 2197
Total Vertical Depth: 4925 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 584 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: 5200 ppm Fluid volume: 869 bbls
Dewatering method used: Evaporated
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: 08/14/2013
☑ **Confidential Release Date:** 08/14/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 08/15/2013

1142497

Operator Name: HERMAN L. LOEB, LLC Lease Name: BLESSED ACRES Well #: 2-18

Sec. 18 Twp. 27 S. R. 18 ☐ East ☑ West County: Kiowa

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Microlog
Neutron Density
Resistivity

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24.0	584	Basic	350	see Tkt# 07730
Production	7.875	5.5	15.5	4924	Loeb Blend	200	see Tkt# 08461

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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 *(Amount and Kind of Material Used)*	Depth
3	8ft, 24 shots	Shot, 39 grm charges	4754 - 4762
3	22ft, 66 shots	Shot, 39 grm charges	4768 - 4790
		Acid, 1500g 15% MCA/Fe	4754 - 4790
		Frac, 2697bbl SlickW, 43800#snd	4754 - 4790

TUBING RECORD: Size: Set At: Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 07/03/2013

Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	500	150		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
4754 - 4790

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	BLESSED ACRES 2-18
Doc ID	1142497

Tops

Name	Top	Datum
Chase	2444	-247
Heebner Shale	4032	-1835
Lansing 'A'	4186	-1989
Lansing/KC 'H'	4352	-2155
Base Kansas City	4572	-2375
Marmaton	4619	-2422
Pawnee	4664	-2467
Cherokee Shale	4702	-2505
Conglomerate Chert	4753	-2556
Mississippi Chert	4777	-2580
Kinderhook Shale	4834	-2637
Kinderhook Sand	4868	-2671

LITHOLOGY STRIP LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Blessed Acres #2-18		
Location:	335' FSL & 1,022' FEL, Sec. 18-T27S-R18W, Kiowa Co., KS.		
License Number:	15-097-21754-0000	Region:	Wildcat
Spud Date:	5/13/2013	Drilling Completed:	5/23/13
Surface Coordinates:	335' FSL & 1022' FEL, Sec. 18-T27S-R18W		
Bottom Hole Coordinates:	Same as above		
Ground Elevation (ft):	2,186'	K.B. Elevation (ft):	2,197'
Logged Interval (ft):	3,350' To: TD.	Total Depth (ft):	4,925'
Formation:	Kinderhook.		
Type of Drilling Fluid:	Native Mud/Gel to 3,013'; Chemical Gel 3013' to TD.		

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 / James R. Hall (4,749' to RTD)
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(K.C. "J" Dennis Zone) 4434' - 4465' Test Times 15"-45"-45"-90" IFP Fair 4" Blow, FFP Strong Blow BOB/12 Min., no Gas to Surface, no Blowback on SI's; REC: 819' Gas in Pipe, 2' CGO, 63' GOCWM(20%G, 10%O 40%W, 30%M), 63' MW(70%W, 30%M), 184' SW, (Cl 100,000, Mud Cl 5,000); IFP 24-86#, ISIP 1434#, FFP 100- 156# FSIP 1428#, IHP 2190#, FHP 2125#, BHT 122 Deg. F.

DST #2 Mississippi & Conglomerate 4,726' to 4,794' (68'), 15-45-45-90, IH 2529, IF 43-51 (BOB 2.5min), ISI 962 (no blow), FF 50-64 (BOB immediately, no gas to surface), FSI 1321 (no blow), FH 2481, Rec; 660' gas in pipe, 90' gas cut mud (5%gas,95%mud). BHT 124F.

DST #3 (Mississippi), 4,794' to 4,814' (20'), 15-45-45-90, IH 2401, IF 20-65 (4.5" in 15min.), ISI 1516 (no blow), FF 71-136 (6.5" in 45min.), FSI 1516 (no blow), FH 2304, Rec; 30' SO&MCW (1%oil, 54%water, 45%mud), 63' MCW (60%water, 40%mud), 185' water, Rwa 0.65 @ 76 F, (0.039 @ BHT), Chl 120,000ppm, mud 5,100ppm, BHT 127 F.

Comments

5/13/13 MIRU Sterling Drilling Co. Rig #2, Spud at 7:00 PM.; 5/14/13 TD. 590' - Cementing Surface Casing; 5/15/13 Drilling at 1400'; 5/16/13 Drilling at 2598'; 5/17/13 Drilling at 3300'; 5/18/13 Drilling at 3809'; 5/19/13 Drilling at 4325'; 5/20/13 TD. 4465' - TOH with DST #1; 5/21/13 Drilling at 4705'; 5/22/13 Finish DST #2; 5/23/13 DST #3, Drilling at 4920'. Reached RTD 4,925' @07:19 hrs. 5/23/13. Log TD 4,925'.

Set new 8 5/8"(24#) Surface Casing at 584' with 350 sx. of Cement(Basic Energy Services). Cement did Circulate. PD. 7:00 AM. on 5/14/13.

Surveys: 0.75 Deg. at 590'(Surface Casing); 0.75 Deg. at 4465'(DST #1); 1 Deg. at 4,794' (DST #2).

Strap pipe prior to DST #3 @ 4,814', (1.91' short to the board).

NOTE: James R. Hall took over Wellsite Geological Supervision at 4,749' and finished the Blessed Acres #2-18.

LOG TOPS: Chase 2444(-247), Stotler Lmst. 3392(-1195), Howard 3590(-1393), Queen Hill Shale 3900(-1703), Heebner Shale 4032(-1835), Brown Lmst. 4180(-1983), Lansing "A" 4186(-1989), Lansing/KC "H" 4352(-2155), Stark Shale 4488(-2291), Hertha 4542(-2345), Base Kansas City 4572(-2375), Marmaton 4619(-2422), Pawnee 4664(-2467), Cherokee Shale 4702(-2505), Conglomerate Chert 4753(-2556), Miss Chert 4777(-2580), Kinderhook Shale 4834(-2637), Kinderhook Sand 4868(-2671).

After review of the Halliburton Logs, DST data and sample log the operator selected to run 5.5" casing.

ROCK TYPES

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

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

BS Boundst
C Chalky
CX Cryxln
E Earthy
FX Finexln
GS Grainst
L Lithogr
MX Microxln
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

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

SORTING
- Well
- Moderate
- Poor

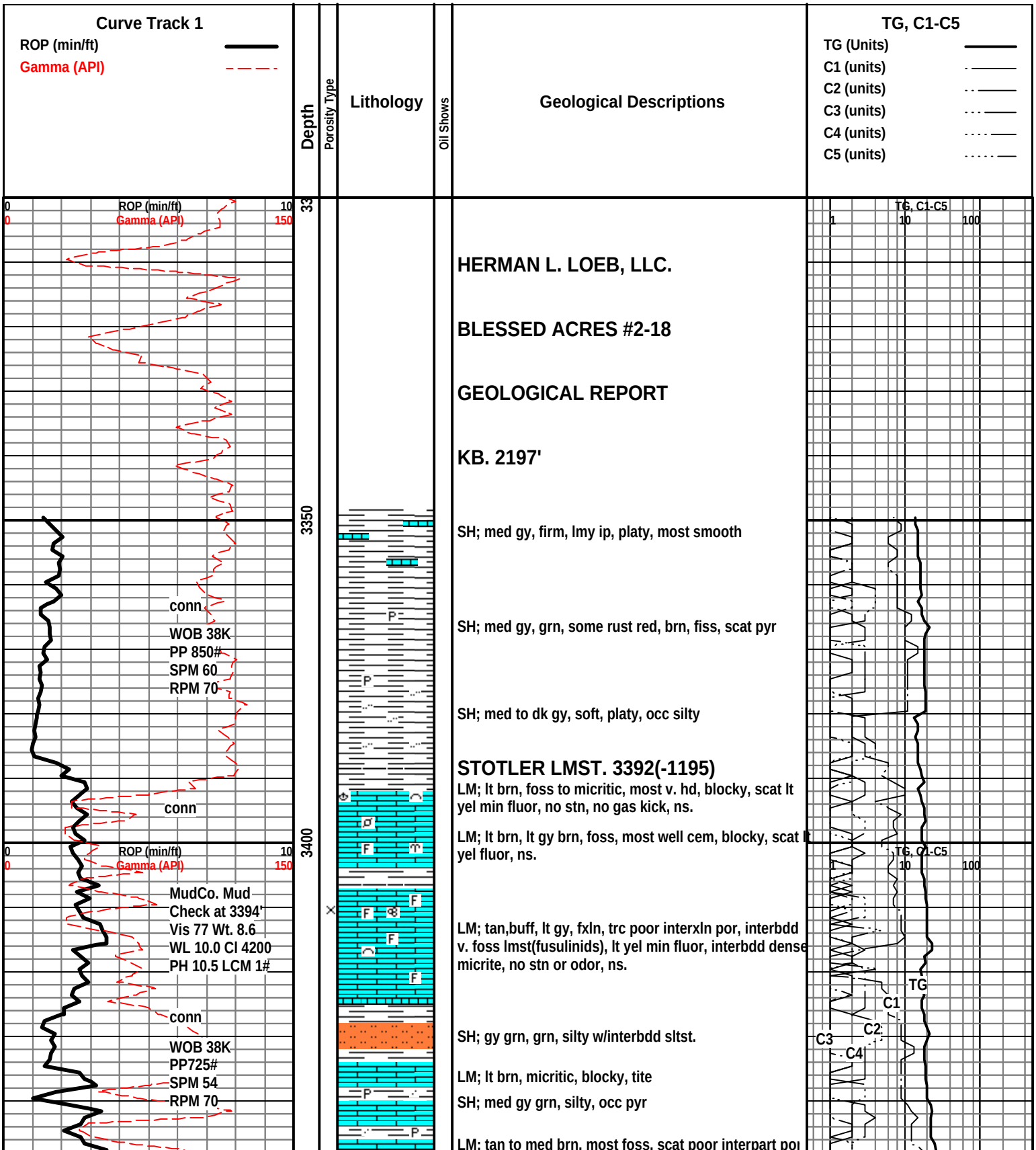
ROUNDING
- Rounded
- Subrnd
- Subang

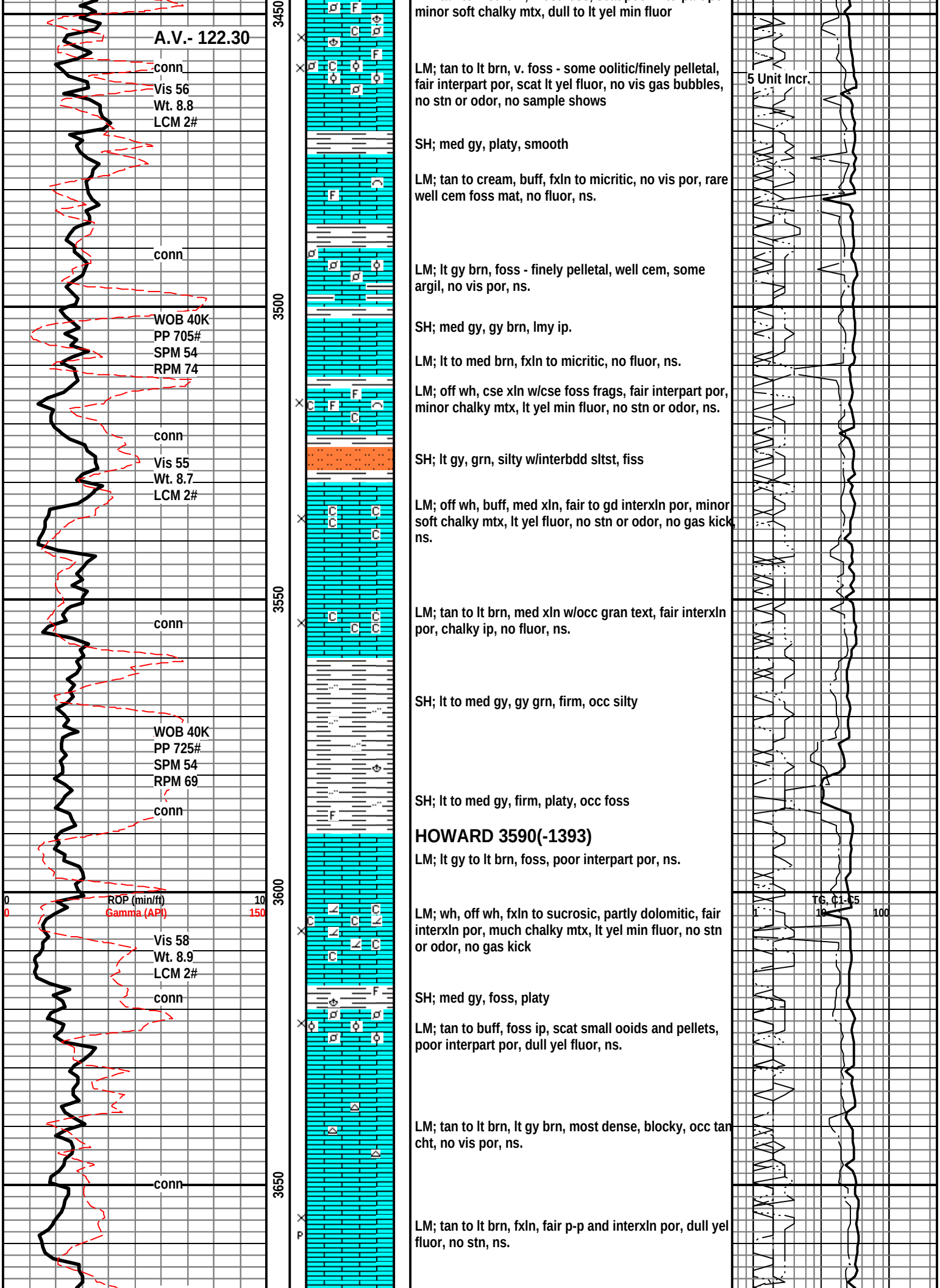
- Angular

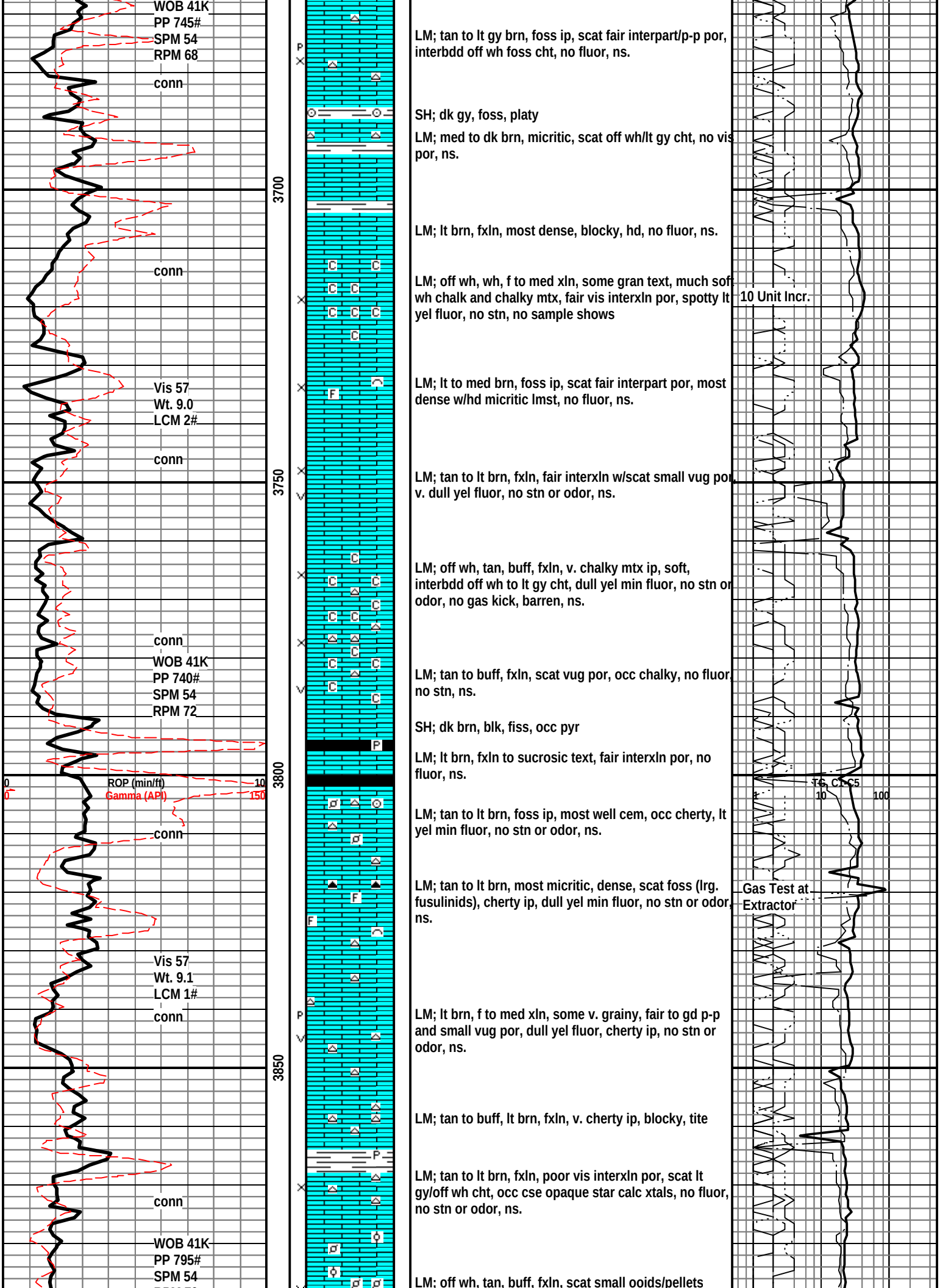
OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall




A.V.- 122.30
conn
Vis 56
Wt. 8.8
LCM 2#
conn
WOB 40K
PP 705#
SPM 54
RPM 74
conn
Vis 55
Wt. 8.7
LCM 2#
conn
WOB 40K
PP 725#
SPM 54
RPM 69
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
Vis 58
Wt. 8.9
LCM 2#
conn
conn
3450
3500
3550
3600
3650
minor soft chalky mtx, dull to lt yel min fluor
LM; tan to lt brn, v. foss - some oolitic/finely pelletal, fair interpart por, scat lt yel fluor, no vis gas bubbles, no stn or odor, no sample shows
SH; med gy, platy, smooth
LM; tan to cream, buff, fxln to micritic, no vis por, rare well cem foss mat, no fluor, ns.
LM; lt gy brn, foss - finely pelletal, well cem, some argil, no vis por, ns.
SH; med gy, gy brn, lmy ip.
LM; lt to med brn, fxln to micritic, no fluor, ns.
LM; off wh, cse xln w/cse foss frags, fair interpart por, minor chalky mtx, lt yel min fluor, no stn or odor, ns.
SH; lt gy, grn, silty w/interbdd sltst, fiss
LM; off wh, buff, med xln, fair to gd interxln por, minor soft chalky mtx, lt yel fluor, no stn or odor, no gas kick, ns.
LM; tan to lt brn, med xln w/occ gran text, fair interxln por, chalky ip, no fluor, ns.
SH; lt to med gy, gy grn, firm, occ silty
SH; lt to med gy, firm, platy, occ foss
HOWARD 3590(-1393)
LM; lt gy to lt brn, foss, poor interpart por, ns.
LM; wh, off wh, fxln to sucrosic, partly dolomitic, fair interxln por, much chalky mtx, lt yel min fluor, no stn or odor, no gas kick
SH; med gy, foss, platy
LM; tan to buff, foss ip, scat small ooids and pellets, poor interpart por, dull yel fluor, ns.
LM; tan to lt brn, lt gy brn, most dense, blocky, occ tan cht, no vis por, ns.
LM; tan to lt brn, fxln, fair p-p and interxln por, dull yel fluor, no stn, ns.
5 Unit Incr.
TG, C1-C5
1
10
100


WOB 41K
PP 745#
SPM 54
RPM 68
conn
3700
conn
Vis 57
Wt. 9.0
LCM 2#
conn
3750
conn
WOB 41K
PP 740#
SPM 54
RPM 72
0
ROP (min/ft)
10
0
Gamma (API)
150
3800
conn
Vis 57
Wt. 9.1
LCM 1#
conn
3850
conn
WOB 41K
PP 795#
SPM 54
LM; tan to lt gy brn, foss ip, scat fair interpart/p-p por, interbdd off wh foss cht, no fluor, ns.
SH; dk gy, foss, platy
LM; med to dk brn, micritic, scat off wh/lt gy cht, no vis por, ns.
LM; lt brn, fxln, most dense, blocky, hd, no fluor, ns.
LM; off wh, wh, f to med xln, some gran text, much soft wh chalk and chalky mtx, fair vis interxln por, spotty lt yel fluor, no stn, no sample shows
10 Unit Incr.
LM; lt to med brn, foss ip, scat fair interpart por, most dense w/hd micritic lmst, no fluor, ns.
LM; tan to lt brn, fxln, fair interxln w/scat small vug por, v. dull yel fluor, no stn or odor, ns.
LM; off wh, tan, buff, fxln, v. chalky mtx ip, soft, interbdd off wh to lt gy cht, dull yel min fluor, no stn or odor, no gas kick, barren, ns.
LM; tan to buff, fxln, scat vug por, occ chalky, no fluor, no stn, ns.
SH; dk brn, blk, fiss, occ pyr
LM; lt brn, fxln to sucrosic text, fair interxln por, no fluor, ns.
TG, C1-C5
1
10
100
LM; tan to lt brn, foss ip, most well cem, occ cherty, lt yel min fluor, no stn or odor, ns.
LM; tan to lt brn, most micritic, dense, scat foss (lrg. fusulinids), cherty ip, dull yel min fluor, no stn or odor, ns.
Gas Test at Extractor
LM; lt brn, f to med xln, some v. grainy, fair to gd p-p and small vug por, dull yel fluor, cherty ip, no stn or odor, ns.
LM; tan to buff, lt brn, fxln, v. cherty ip, blocky, tite
LM; tan to lt brn, fxln, poor vis interxln por, scat lt gy/off wh cht, occ cse opaque star calc xtals, no fluor, no stn or odor, ns.
LM; off wh, tan, buff, fxln, scat small ooids/pellets

RPM 70

A.V.= 122.35

3900

conn

MudCo. Mud Check at 3904'
Vis 59 Wt. 9.2
WL 12.8 Cl 5000
PH 9.0 CLM 1#

conn

3950

WOB 41K
PP 805#
SPM 54
RPM 70

conn

4000

conn

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

Vis 58
Wt. 9.4+
LCM 1#

A.V.= 122.38

conn

WOB 41K
PP 830#
SPM 54
RPM 65

4050

conn

Vis 53
Wt. 9.4
LCM 1#

conn

4100

poor interxln por, dull yel fluor, no gas kick, ns.

QUEEN HILL SHALE 3900(-1703)

SH; blk, soft, pyr ip, platy

LM; tan to lt brn, foss - occ pellets/hash, firm, poor interpart por, lt yel fluor, no stn or odor, ns.

LM; tan to lt brn, med xln to gran text, fair interxln por, rare p-p por, scat foss mat, lt yel min flour, no stn or odor, ns.

LM; lt brn, fxln, some gran text, minor soft chalky mtx, fair interxln por, lt yel fluor, ns.

LM; tan to buff, off wh, f to med xln, chalky, poor interxln por, interbdd dolomitic lmst w/some sucrosic text, lt yel fluor, ns.

DOL; lt brn, finely rhombic to sucrosic, fair interxln por, lt yel fluor, no stn or odor, ns.

LM; off wh, buff, med xln, fair interxln por, v. chalky - soft, lt yel fluor, no stn or odor, ns.

SH; dk gy, some blk, platy, pyr ip.

LM; lt gy, lt brn, foss, scat small pellets and hash, fair interpart por, dull yel fluor, ns.

LM; wh, off wh, f to med xln, scat cse spar calc xtals, minor chalky mtx, fair interxln w/some vug por, lt yel fluor, no stn, no gas kick, ns.

HEEBNER SHALE 4032(-1835)

SH; blk, carb, platy, trc pyr

LM; med brn, dense, micritic, pyr ip.

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

TORONTO 4045(-1848)

LM; off wh, tan, fxln to micritic, scat off wh cht, no vis por, lt yel min fluor, no stn, ns.

LM; tan to off wh, lt brn, foss, fair p-p and small vug por, lt yel min fluor, no stn or odor, no gas kick, ns.

DOUGLAS SHALE 4070(-1873)

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

LM; lt to med brn, foss ip, hd, well cem, scat pyr, no st or odor, ns.

SH; lt gy, grn, soft, silty ip.

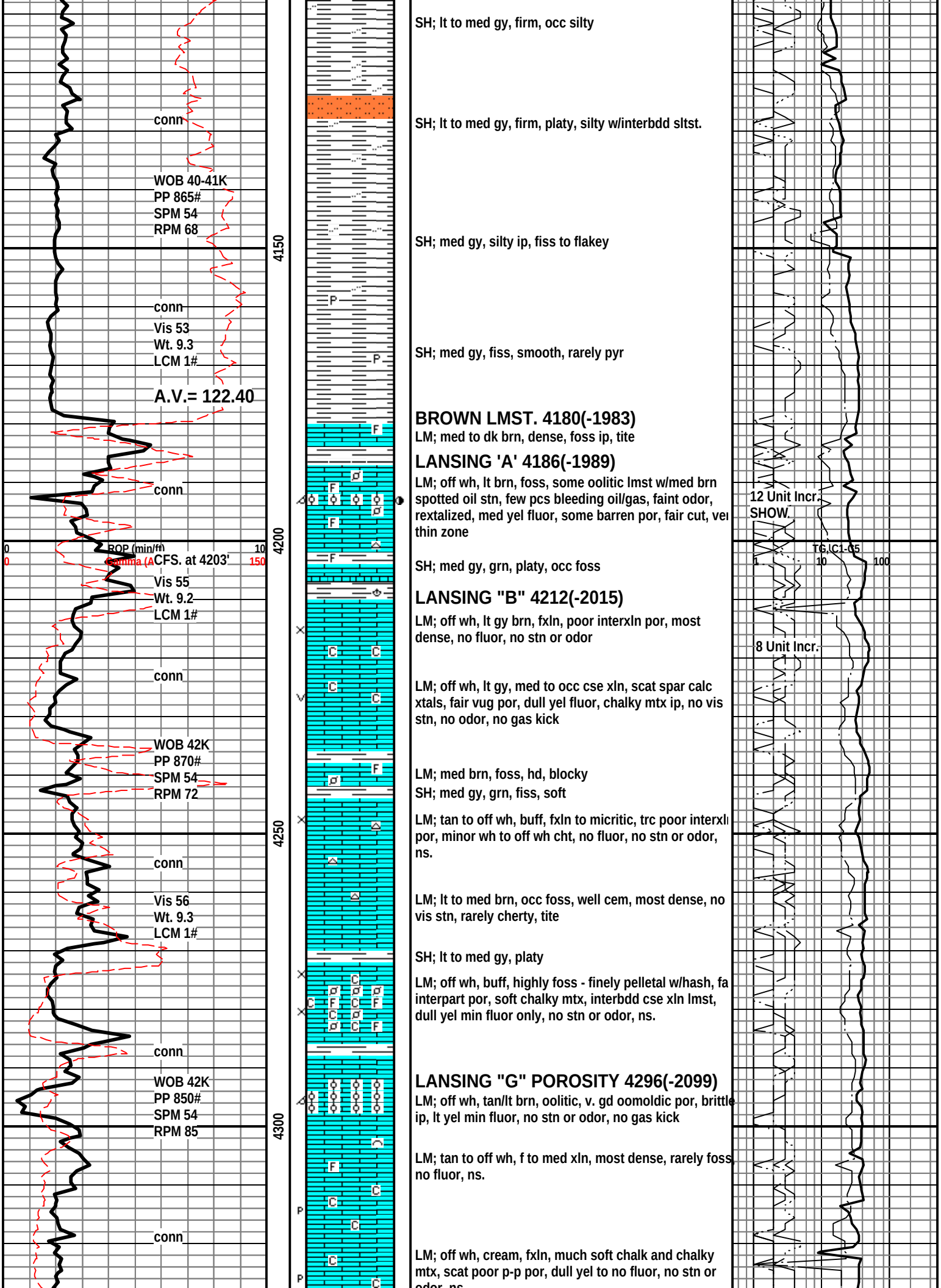
SS; lt gy, vf to f gr qtz, mica, argil ip, firm, no vis por, ns.

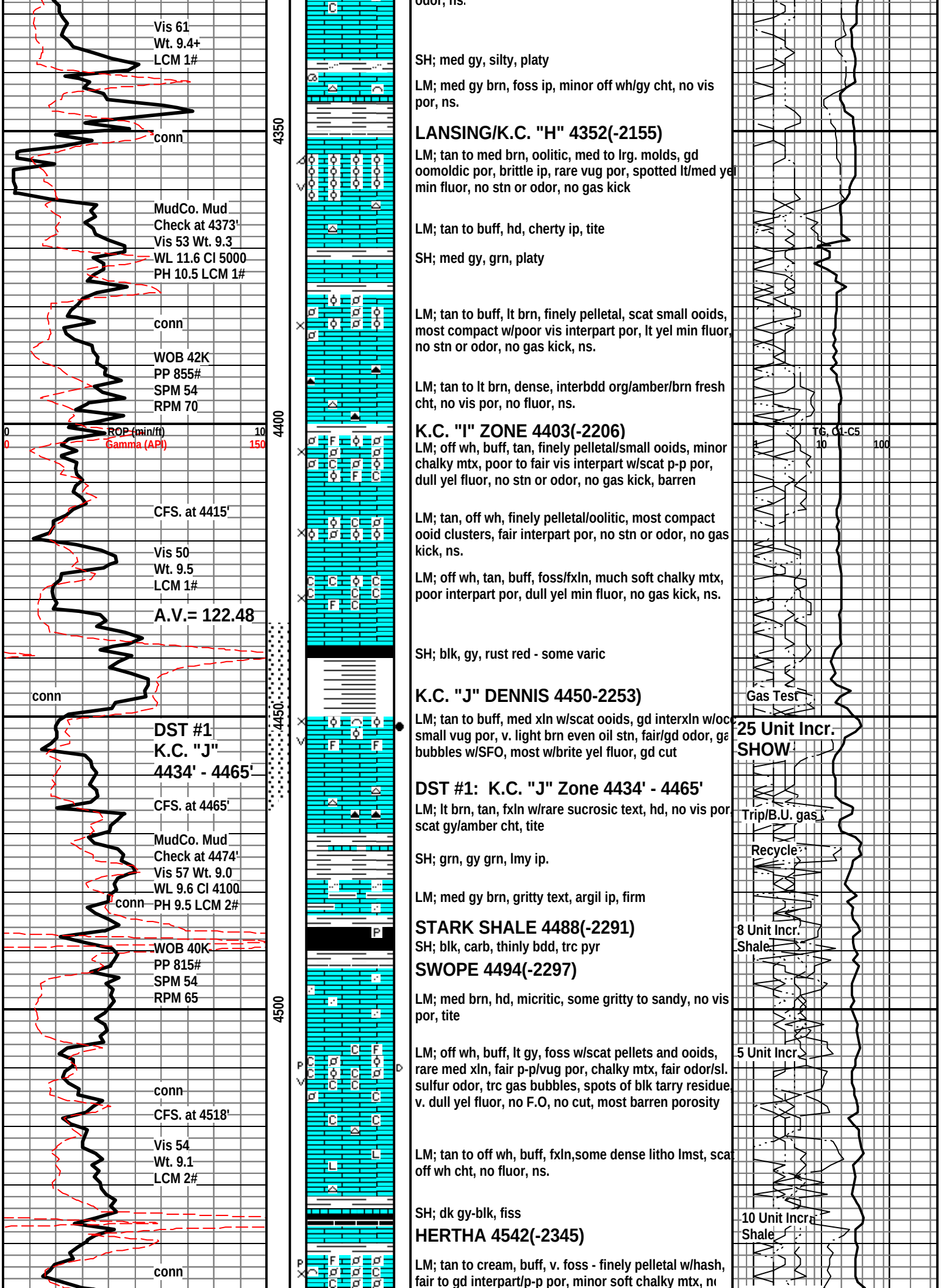
14 Unit Incr. Shale

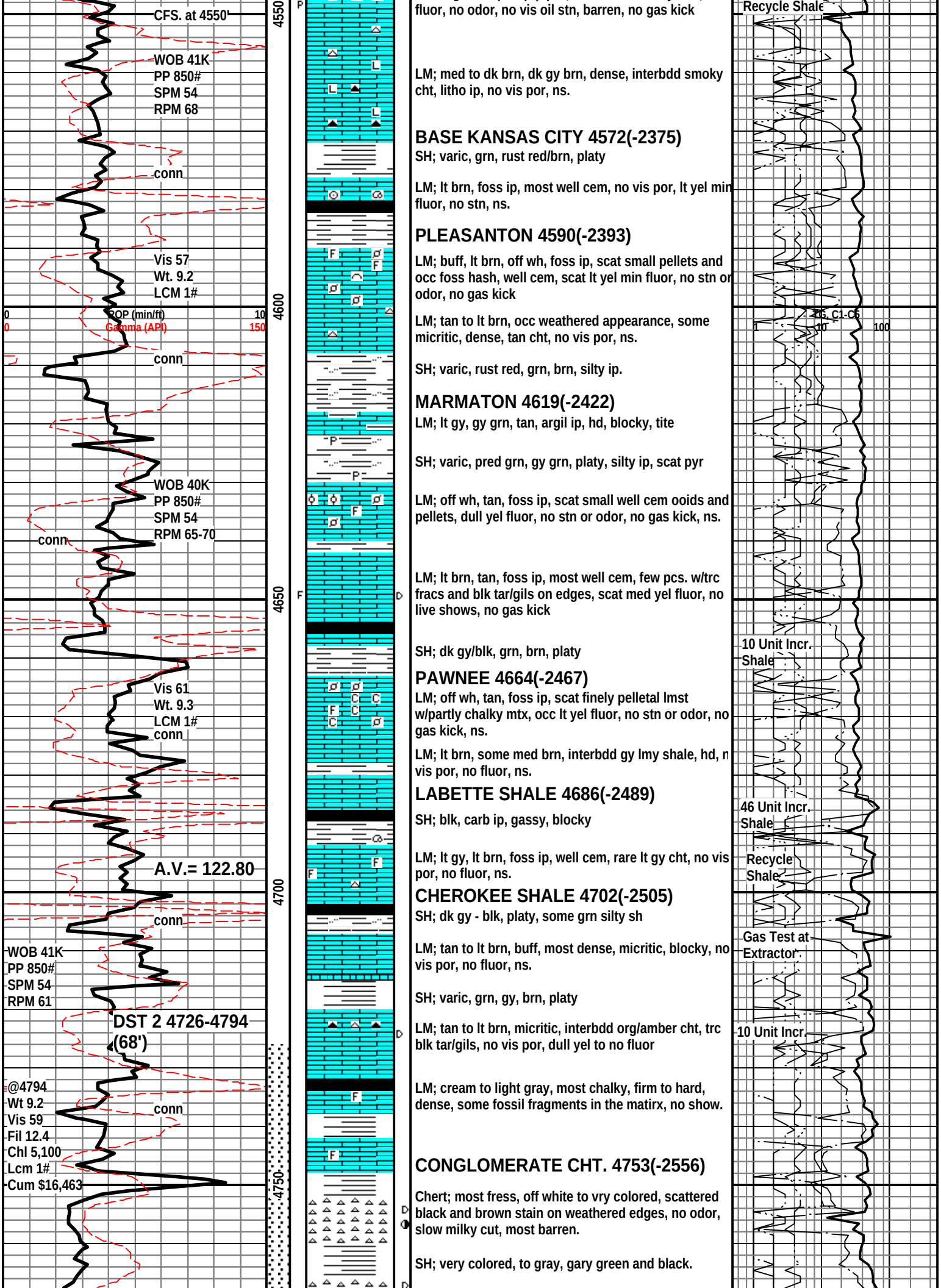
TG, C1-C5
1 10 100

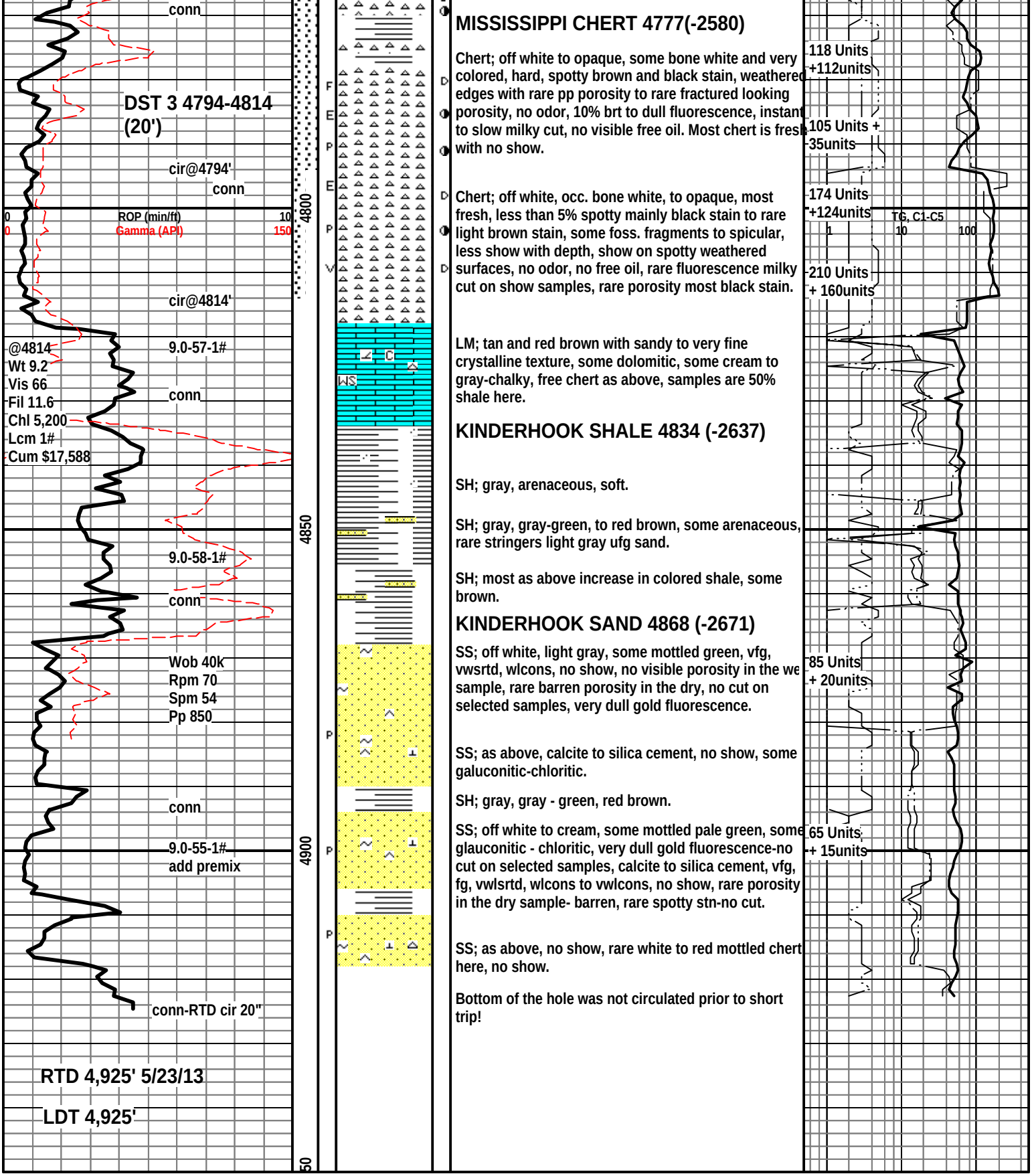
28 Unit Incr. Shale

Gas Test at Extractor


conn
WOB 40-41K
PP 865#
SPM 54
RPM 68
4150
conn
Vis 53
Wt. 9.3
LCM 1#
A.V.= 122.40
conn
0
ROP (min/ft)
10
0
Gamma (A
150
CFS. at 4203'
4200
Vis 55
Wt. 9.2
LCM 1#
conn
WOB 42K
PP 870#
SPM 54
RPM 72
4250
conn
Vis 56
Wt. 9.3
LCM 1#
conn
WOB 42K
PP 850#
SPM 54
RPM 85
4300
conn
SH; lt to med gy, firm, occ silty
SH; lt to med gy, firm, platy, silty w/interbdd sltst.
SH; med gy, silty ip, fiss to flakey
SH; med gy, fiss, smooth, rarely pyr
BROWN LMST. 4180(-1983)
LM; med to dk brn, dense, foss ip, tite
LANSING 'A' 4186(-1989)
LM; off wh, lt brn, foss, some oolitic lmst w/med brn spotted oil stn, few pcs bleeding oil/gas, faint odor, rextalized, med yel fluor, some barren por, fair cut, ve
thin zone
SH; med gy, grn, platy, occ foss
LANSING "B" 4212(-2015)
LM; off wh, lt gy brn, fxln, poor interxln por, most dense, no fluor, no stn or odor
LM; off wh, lt gy, med to occ cse xln, scat spar calc xtals, fair vug por, dull yel fluor, chalky mtx ip, no vis stn, no odor, no gas kick
LM; med brn, foss, hd, blocky
SH; med gy, grn, fiss, soft
LM; tan to off wh, buff, fxln to micritic, trc poor interxl
por, minor wh to off wh cht, no fluor, no stn or odor, ns.
LM; lt to med brn, occ foss, well cem, most dense, no vis stn, rarely cherty, tite
SH; lt to med gy, platy
LM; off wh, buff, highly foss - finely pelletal w/hash, fa interpart por, soft chalky mtx, interbdd cse xln lmst, dull yel min fluor only, no stn or odor, ns.
LANSING "G" POROSITY 4296(-2099)
LM; off wh, tan/lt brn, oolitic, v. gd oomoldic por, brittle ip, lt yel min fluor, no stn or odor, no gas kick
LM; tan to off wh, f to med xln, most dense, rarely foss no fluor, ns.
LM; off wh, cream, fxln, much soft chalk and chalky mtx, scat poor p-p por, dull yel to no fluor, no stn or
12 Unit Incr.
SHOW.
TG,C1-C5
1
10
100
8 Unit Incr.


Vis 61
Wt. 9.4+
LCM 1#
conn
4350
MudCo. Mud
Check at 4373'
Vis 53 Wt. 9.3
WL 11.6 Cl 5000
PH 10.5 LCM 1#
conn
WOB 42K
PP 855#
SPM 54
RPM 70
0
ROP (min/ft)
10
0
Gamma (API)
150
4400
CFS. at 4415'
Vis 50
Wt. 9.5
LCM 1#
A.V.= 122.48
conn
4450
DST #1
K.C. "J"
4434' - 4465'
CFS. at 4465'
MudCo. Mud
Check at 4474'
Vis 57 Wt. 9.0
WL 9.6 Cl 4100
conn
PH 9.5 LCM 2#
WOB 40K
PP 815#
SPM 54
RPM 65
4500
conn
CFS. at 4518'
Vis 54
Wt. 9.1
LCM 2#
conn
odor, ns.
SH; med gy, silty, platy
LM; med gy brn, foss ip, minor off wh/gy cht, no vis por, ns.
LANSING/K.C. "H" 4352(-2155)
LM; tan to med brn, oolitic, med to lrg. molds, gd oomoldic por, brittle ip, rare vug por, spotted lt/med yel min fluor, no stn or odor, no gas kick
LM; tan to buff, hd, cherty ip, tite
SH; med gy, grn, platy
LM; tan to buff, lt brn, finely pelletal, scat small ooids, most compact w/poor vis interpart por, lt yel min fluor, no stn or odor, no gas kick, ns.
LM; tan to lt brn, dense, interbdd org/amber/brn fresh cht, no vis por, no fluor, ns.
K.C. "I" ZONE 4403(-2206)
LM; off wh, buff, tan, finely pelletal/small ooids, minor chalky mtx, poor to fair vis interpart w/scat p-p por, dull yel fluor, no stn or odor, no gas kick, barren
LM; tan, off wh, finely pelletal/oolitic, most compact ooid clusters, fair interpart por, no stn or odor, no gas kick, ns.
LM; off wh, tan, buff, foss/fxln, much soft chalky mtx, poor interpart por, dull yel min fluor, no gas kick, ns.
SH; blk, gy, rust red - some varic
K.C. "J" DENNIS 4450-2253)
LM; tan to buff, med xln w/scat ooids, gd interxln w/oc small vug por, v. light brn even oil stn, fair/gd odor, ga bubbles w/SFO, most w/brite yel fluor, gd cut
DST #1: K.C. "J" Zone 4434' - 4465'
LM; lt brn, tan, fxln w/rare sucrosic text, hd, no vis por, scat gy/amber cht, tite
SH; grn, gy grn, lmy ip.
LM; med gy brn, gritty text, argil ip, firm
STARK SHALE 4488(-2291)
SH; blk, carb, thinly bdd, trc pyr
SWOPE 4494(-2297)
LM; med brn, hd, micritic, some gritty to sandy, no vis por, tite
LM; off wh, buff, lt gy, foss w/scat pellets and ooids, rare med xln, fair p-p/vug por, chalky mtx, fair odor/sl. sulfur odor, trc gas bubbles, spots of blk tarry residue, v. dull yel fluor, no F.O, no cut, most barren porosity
LM; tan to off wh, buff, fxln,some dense litho lmst, scat off wh cht, no fluor, ns.
SH; dk gy-blk, fiss
HERTHA 4542(-2345)
LM; tan to cream, buff, v. foss - finely pelletal w/hash, fair to gd interpart/p-p por, minor soft chalky mtx, n
TG, C1-C5
1
10
100
Gas Test
25 Unit Incr.
SHOW
Trip/B.U. gas
Recycle
8 Unit Incr.
Shale
5 Unit Incr.
10 Unit Incr.
Shale


CFS. at 4550'
WOB 41K
PP 850#
SPM 54
RPM 68
conn
Vis 57
Wt. 9.2
LCM 1#
0
ROP (min/ft)
10
0
Gamma (API)
150
conn
WOB 40K
PP 850#
SPM 54
RPM 65-70
conn
Vis 61
Wt. 9.3
LCM 1#
conn
A.V.= 122.80
conn
WOB 41K
PP 850#
SPM 54
RPM 61
DST 2 4726-4794
(68')
@4794
Wt 9.2
Vis 59
Fil 12.4
Chl 5,100
Lcm 1#
Cum $16,463
conn
4550
4600
4650
4700
4750
fluor, no odor, no vis oil stn, barren, no gas kick
LM; med to dk brn, dk gy brn, dense, interbdd smoky cht, litho ip, no vis por, ns.
BASE KANSAS CITY 4572(-2375)
SH; varic, grn, rust red/brn, platy
LM; lt brn, foss ip, most well cem, no vis por, lt yel min fluor, no stn, ns.
PLEASANTON 4590(-2393)
LM; buff, lt brn, off wh, foss ip, scat small pellets and occ foss hash, well cem, scat lt yel min fluor, no stn or odor, no gas kick
LM; tan to lt brn, occ weathered appearance, some micritic, dense, tan cht, no vis por, ns.
SH; varic, rust red, grn, brn, silty ip.
MARMATON 4619(-2422)
LM; lt gy, gy grn, tan, argil ip, hd, blocky, tite
SH; varic, pred grn, gy grn, platy, silty ip, scat pyr
LM; off wh, tan, foss ip, scat small well cem ooids and pellets, dull yel fluor, no stn or odor, no gas kick, ns.
LM; lt brn, tan, foss ip, most well cem, few pcs. w/trc fracs and blk tar/gils on edges, scat med yel fluor, no live shows, no gas kick
SH; dk gy/blk, grn, brn, platy
PAWNEE 4664(-2467)
LM; off wh, tan, foss ip, scat finely pelletal lmst w/partly chalky mtx, occ lt yel fluor, no stn or odor, no gas kick, ns.
LM; lt brn, some med brn, interbdd gy lmy shale, hd, n vis por, no fluor, ns.
LABETTE SHALE 4686(-2489)
SH; blk, carb ip, gassy, blocky
LM; lt gy, lt brn, foss ip, well cem, rare lt gy cht, no vis por, no fluor, ns.
CHEROKEE SHALE 4702(-2505)
SH; dk gy - blk, platy, some grn silty sh
LM; tan to lt brn, buff, most dense, micritic, blocky, no vis por, no fluor, ns.
SH; varic, grn, gy, brn, platy
LM; tan to lt brn, micritic, interbdd org/amber cht, trc blk tar/gils, no vis por, dull yel to no fluor
LM; cream to light gray, most chalky, firm to hard, dense, some fossil fragments in the matirx, no show.
CONGLOMERATE CHT. 4753(-2556)
Chert; most fress, off white to vry colored, scattered black and brown stain on weathered edges, no odor, slow milky cut, most barren.
SH; very colored, to gray, gary green and black.
Recycle Shale
TG, C1-C5
1
10
100
10 Unit Incr.
Shale
46 Unit Incr.
Shale
Recycle
Shale
Gas Test at
Extractor
10 Unit Incr.



MISSISSIPPI CHERT 4777(-2580)

Chert; off white to opaque, some bone white and very colored, hard, spotty brown and black stain, weathered edges with rare pp porosity to rare fractured looking porosity, no odor, 10% brt to dull fluorescence, instant to slow milky cut, no visible free oil. Most chert is fresh with no show.

Chert; off white, occ. bone white, to opaque, most fresh, less than 5% spotty mainly black stain to rare light brown stain, some foss. fragments to spicular, less show with depth, show on spotty weathered surfaces, no odor, no free oil, rare fluorescence milky cut on show samples, rare porosity most black stain.

LM; tan and red brown with sandy to very fine crystalline texture, some dolomitic, some cream to gray-chalky, free chert as above, samples are 50% shale here.

KINDERHOOK SHALE 4834 (-2637)

SH; gray, arenaceous, soft.

SH; gray, gray-green, to red brown, some arenaceous, rare stringers light gray ufg sand.

SH; most as above increase in colored shale, some brown.

KINDERHOOK SAND 4868 (-2671)

SS; off white, light gray, some mottled green, vfg, vwsrtd, wlcons, no show, no visible porosity in the we sample, rare barren porosity in the dry, no cut on selected samples, very dull gold fluorescence.

SS; as above, calcite to silica cement, no show, some galuconitic-chloritic.

SH; gray, gray - green, red brown.

SS; off white to cream, some mottled pale green, some glauconitic - chloritic, very dull gold fluorescence-no cut on selected samples, calcite to silica cement, vfg, fg, vwlsrtd, wlcons to vwlcons, no show, rare porosity in the dry sample- barren, rare spotty stn-no cut.

SS; as above, no show, rare white to red mottled chert here, no show.

Bottom of the hole was not circulated prior to short trip!

BASIC ENERGY SERVICES

4076
711 Blessed
6438

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	05/15/2013

INVOICE NUMBER
1718 - 91189312

Pratt (620) 672-1201

BILL TO
HERMAN L LOEB LLC
PO Box: 838
LAWRENCEVILLE
IL US 62439
ATTN: ACCOUNTS PAYABLE

JOB SITE

LEASE NAME	Blessed Acres 2-18
LOCATION	
COUNTY	Kiowa
STATE	KS
JOB DESCRIPTION	Cement-New Well Casing/Pi
JOB CONTACT	

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40596291	20920		Net - 30 days	06/14/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 05/14/2013 to 05/14/2013				
0040596291				
171807730A Cement-New Well Casing/Pi 05/14/2013				
Cement 8 5/8" Surface				
A-Con Blend Common	175.00	EA	13.50	2,362.35 T
Common Cement	175.00	EA	12.00	2,099.86 T
Celloflake	88.00	EA	2.77	244.18 T
Calcium Chloride	825.00	EA	0.79	649.64 T
"Top Rubber Cmt Plug, 8 5/8"""	1.00	EA	168.74	168.74
"8 5/8"" Guide Shoe (Red)"	1.00	EA	412.47	412.47
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	209.99	209.99
"8 5/8"" Basket (Blue)"	1.00	EA	236.23	236.23
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.19	111.56
Heavy Equipment Mileage	70.00	MI	5.25	367.48
"Proppant & Bulk Del. Chgs., per ton mil	578.00	EA	1.20	693.55
Depth Charge; 501'-1000'	1.00	EA	899.94	899.94
Blending & Mixing Service Charge	350.00	BAG	1.05	367.48
Plug Container Util. Chg.	1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

PAID
40402
MAY 24 2013
SCANNED

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	9,142.20
TAX	390.99
INVOICE TOTAL	9,533.19

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 07730 A

DATE TICKET NO.

DATE OF JOB 5-14-13 DISTRICT Pratt	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman L LOEB	LEASE Blessed Acres 2-18 WELL NO.
ADDRESS	COUNTY Kiowa STATE KS
CITY STATE	SERVICE CREW Mike Aron Joe
AUTHORIZED BY	JOB TYPE: cnw 8 5/8 SF

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
33708-20920	45 min				
70959-19918	45min				
28443					

	DATE	AM PM	TIME
TRUCK CALLED	5-14-13	AM PM	12.30
ARRIVED AT JOB	5-14-13	AM PM	2.00
START OPERATION	5-14-13	AM PM	6:15
FINISH OPERATION	5-14-13	AM PM	7.00
RELEASED	5-14-13	AM PM	8:00
MILES FROM STATION TO WELL	35		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP 101	A-Con	SK	175		3,150 00
CP 100C	Common cement	SK	175		2800 00
CC 102	Cello flake	lb	88		325 60
CC 109	Calcium Choride	lb	825		866 25
CF 105	TOP Rubber Plug	eq	1		225 00
CF 203	8 5/8 Guide shoe	eq	1		550 00
CF 1453	Flapper Insert	eq	1		280 00
CF 1903	8 5/8 Basket	eq	1		315 00
E 100	Pick up Mileage	mi	35		148 75
E 101	Heavy Mileage	mi	70		490 00
E 113	Bulk Delivery	TM	578		924 00
CE 201	Depth Charge	4hr	1		1,200 00
CE 240	Mixing Charge	SK	350		490 00
CE 504	Plug container	JOB	1		250 00
S 003	Supervisor	eq	1		175 00

SUB TOTAL DLS 9,142 00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Joe Murphy

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASiC energy services, L.P.

TREATMENT REPORT

Customer: Herman L Loeb	Lease No.		Date: 5-24-13
Lease: Blessed Acres	Well #: 2-18		
Field Order #: 7720	Station: Pratt	Casing: 8 5/8	Depth: 584
County: Kiowa	State: KS		
Type Job: cnw 8 5/8 SF	Formation	Legal Description: 18-27-18	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 584	Depth	From	To	Pre Pad	Max		5 Min.
Volume 34.5	Volume	From	To	Pad	Min		10 Min.
Max Press 750	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 542	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: Evoldo	Station Manager: Scott	Treater: Joe

Service Units	33708-20920	70959-19918		28443					
Driver Names	mike	Aron		Joe					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:00					on loc / safty meeting
2:55					start short trip
3:42					start out of hole
					Bsk 122' from surface
					Run 14 jts 8 5/8 csg 24#
6:00					csg on bottom
6:05					Break circ. with Rig
6:15			Ø		start job
	200		76	4.5	mix 175 A-con 3%cc 1/4# cell flake
	200		37	4.5	mix 175 common 2%cc 1/4# cell flake
			Ø		shut down / Release plug
6:45			Ø	4.5	start disp with H2O
			33	4.5	cement to surface
7:00			34.5		plug down
					4 BBL circ. to pit
					job complete
					Thank you
					Joe

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

BASIC ENERGY SERVICES

40716
771 Blessed
6438

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	05/29/2013

INVOICE NUMBER
1718 - 91200338

Pratt (620) 672-1201

BILL TO
HERMAN L LOEB LLC
PO Box: 838
LAWRENCEVILLE
IL US 62439
ATTN: ACCOUNTS PAYABLE

JOB SITE

LEASE NAME	Blessed Acres 2-18
LOCATION	
COUNTY	Kiowa
STATE	KS
JOB DESCRIPTION	Cement-New Well Casing/Pi
JOB CONTACT	

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40600717	19905		Net - 30 days	06/28/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 05/24/2013 to 05/24/2013				
0040600717				
171808461A Cement-New Well Casing/Pi 05/24/2013				
Cement 5 1/2" Longstring				
50/50 POZ	250.00	EA	8.25	2,062.37 T
Celloflake	63.00	EA	2.77	174.82 T
Gypsum	1,050.00	EA	0.56	590.59 T
FLA-322	105.00	EA	5.62	590.59 T
Mud Flush	1,000.00	EA	0.64	644.97 T
Gilsonite	1,500.00	EA	0.50	753.71 T
KCL Potassium Chloride	566.00	EA	1.12	636.72 T
Claymax KCL Substitute	5.00	EA	26.25	131.24 T
"Latch Down Plug & Baffle, 5 1/2"" (Blu	1.00	EA	299.98	299.98
"Auto Fill Float Shoe 5 1/2"" (Blue)"	1.00	EA	269.99	269.99
"Turbolizer, 5 1/2"" (Blue)"	12.00	EA	82.50	989.95
"5 1/2"" Basket (Blue)"	1.00	EA	217.49	217.49
"Cement Scratchers Cable Type, 5 1/2"" "	6.00	EA	56.25	337.48
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.19	111.56
Heavy Equipment Mileage	70.00	MI	5.25	367.48
"Proppant & Bulk Del. Chgs., per ton mil	368.00	EA	1.20	441.58
Depth Charge; 4001'-5000'	1.00	EA	1,889.90	1,889.90
Blending & Mixing Service Charge	250.00	BAG	1.05	262.49
Plug Container Util. Chg.	1.00	EA	187.49	187.49
Service Supervisor	1.00	EA	131.24	131.24

PAID
40689
JUN 04 2013
SCANNED

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	11,091.64
TAX	407.71
INVOICE TOTAL	11,499.35

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 08461 A

18-27S-18W DATE TICKET NO.

DATE OF JOB 5-24-13 DISTRICT Pratt, Kansas	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman L. Loeb, LLC	LEASE Blessed Acres WELL NO. 2-18
ADDRESS	COUNTY Kiowa STATE Kansas
CITY STATE	SERVICE CREW C. Messick; M. Mattal; T. Melhon
AUTHORIZED BY	JOB TYPE: C.N.W.- Longstring

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
37,216	1.5				
19,903-19,905	1.5				
19,826-19,860	1.5				

	DATE	TIME
TRUCK CALLED	5-23-13	AM PM 8:00
ARRIVED AT JOB	5-24-13	AM PM 6:30
START OPERATION		AM PM 11:15
FINISH OPERATION		AM PM 12:45
RELEASED	5-24-13	AM PM 1:00
MILES FROM STATION TO WELL		35

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

	ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
P	CP 104	50/50 Poz Blend Cement	sk	200		$ 2,200 00
P	CP 104	50/50 Poz Blend Cement	sk	50		$ 550 00
P	CC 102	Cellflake	Lb	63		$ 233 10
P	CC 113	Gypsum	Lb	1050		$ 787 50
P	CC 129	Fluid Loss	Lb	105		$ 787 50
P	CC 201	Gilsonite	Lb	1,500		$ 1,005 00
P	C 700	Potassium Chloride	Lb	566		$ 849 00
P	CF 607	Latch Down Plug and Baffle, 5½"	ea	1		$ 400 00
P	CF 1251	Auto Fill Float Shoe, 5½"	ea	1		$ 360 00
P	CF 1651	Turbolizer, 5½"	ea	12		$ 1,320 00
P	CF 1901	Basket, 5½"	ea	1		$ 290 00
P	CF 2001	Reciprocating scratchers, 5½"	ea	6		$ 450 00
P	C 704	Claymax	Gal	5		$ 175 00
P	CC 151	Mud Flush	Gal	1,000		$ 860 00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Terence R. Merrick

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

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 ~~08462~~ A
Continuation

18-27S-18W DATE TICKET NO. 8,461

DATE OF JOB 5-24-13 DISTRICT Pratt, Kansas	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman L. Loeb, LLC.	LEASE Blessed Acres WELL NO. 2-18
ADDRESS	COUNTY Kiowa STATE Kansas
CITY STATE	SERVICE CREW C. Messick: M. Mattal: T. Melhon
AUTHORIZED BY	JOB TYPE: C.N.W.- Longstring

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS

	DATE	AM PM	TIME
TRUCK CALLED			
ARRIVED AT JOB		AM PM	
START OPERATION		AM PM	
FINISH OPERATION		AM PM	
RELEASED		AM PM	
MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

	ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
P	E 100	Pickup Mileage	mi	35	$	148 75
P	E 101	Heavy Equipment Mileage	mi	70	$	490 00
P	E 113	Bulk Delivery	tm	368	$	588 00
P	CE 205	Cement Pump: 4,001 Feet To 5,000 Feet	hrs	4	$	2,520 00
P	CE 240	Blending and Mixing Service	sk	250	$	350 00
P	CE 504	Plug Container	Job	1	$	250 00
P	5003	Service Supervisor	hrs	8	$	175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		$ 11,091 64
SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
TOTAL		

SERVICE REPRESENTATIVE Lorenzo R. Wessel

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASiC energy services, L.P.

TREATMENT REPORT

Customer: Herman L. Loeb, LLC	Lease No.	Date: 5-24-13	
Lease: Blessed Acres	Well #: 2-18		
Field Order #: 8,461	Station: Pratt, Kansas	Casing: 5 1/2" 15.5 Lb.	Depth: 4,924 Feet
County: Kiowa	State: Kansas		
Type Job: C.N.W - Longstring	Formation:	Legal Description: 18-27S-18W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2 15.5 Lb.	Tubing Size	Shots/Ft: 200 sacks	50/50 Poz with 2% Gel, .5% Fluid Loss, 5% Gypsum, 5% HCL,	Acid	RATE	PRESS	ISIP
Depth: 4,924 Feet	Depth	From	To .25 Lb.	Pre Pad: 1 Sk. Cellflake, 6	Max: Lb./Sk. Gilsonite		5 Min.
Volume: 117.2 Bbl.	Volume	From	To	Pad: 14 Lb./Gal., 5.	Min: 43 Gal./Sk., 1.35 Cu. Ft./Sk.		10 Min.
Max Press: 1,500 P.S.I.	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: Plug Container	Annulus Vol.	From: 50 sacks of above blend to plug Rat (30 sacks) and Mouse (20 sacks) holes			HHP Used		Annulus Pressure
Plug Depth: 4,905 Feet	Packer Depth	From	To	Flush: 116.7 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative: George Payne | Station Manager: David Scott | Treater: Clarence R. Messick

Service Units	37,216	19,903	19,905	19,826	19,860						
Driver Names	Messick	Mattal		Melhon							

Time AM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30					Trucks on location and hold safety meeting.
6:45	Sterling Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down				
	Baffle screwed into Collar and a total of 118 Joints new 15.5 Lb./Ft. 5 1/2" casing.				
	A Basket was installed above collar #15. A Turbolizer was installed on Collars				
					# 1, 2, 3, 4, 5, 9, 13, 17, 24, 28, 32 and # 36.
10:00					Casing in well. Circulate and recipricate for 1 Hour.
11:16		2,000			Shut in well. Pressure Test. Open well.
11:18	300			6	Start Fresh water Pre-Flush.
			20	6	Start mud Flush.
			44	6	Start Fresh water spacer.
11:28	300		64	5	Start mixing 200 sacks 50/50 Poz cement.
	-0-		112		Stop pumping. Shut in well. Wash pump and lines.
					Release latch Down Plug. Open Well.
11:37				6.5	Start Fresh water Displacement.
			90	5	Start to lift cement.
12:03	600		116.7		Plug down.
	1,500				Pressure up.
					Release pressure. Float Shoe held.
			7.5	3	Plug Rat and Mouse holes.
					Wash up pump truck.
1:00					Job Complete.
					Thank You. Clarence, Mike, ~~Steve~~ Tom

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb LLC**

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

Blessed Acres #2-18

18-27s-18w Kiowa,KS

Start Date: 2013.05.20 @ 00:19:03

End Date: 2013.05.20 @ 08:21:03

Job Ticket #: 50925 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.29 @ 14:20:47

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50925 **DST#: 1**

Test Start: 2013.05.20 @ 00:19:03

GENERAL INFORMATION:

Formation: **Kansas City "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:45:03
Time Test Ended: 08:21:03

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 45

Interval: 4434.00 ft (KB) To 4465.00 ft (KB) (TVD)
Total Depth: 4465.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

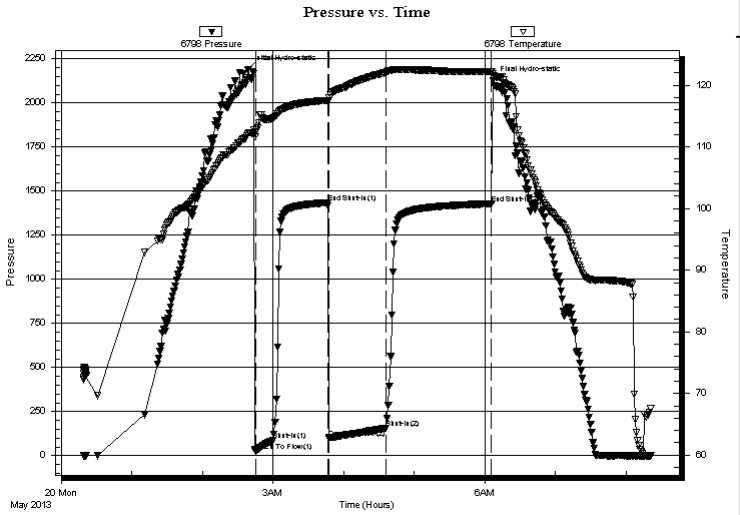
Reference Elevations: 2197.00 ft (KB)
2186.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 156.25 psig @ 4435.00 ft (KB)
Start Date: 2013.05.20 End Date: 2013.05.20
Start Time: 00:19:04 End Time: 08:21:03

Capacity: 8000.00 psig
Last Calib.: 2013.05.20
Time On Btm: 2013.05.20 @ 02:38:48
Time Off Btm: 2013.05.20 @ 06:06:48

TEST COMMENT:
IF: Fair Blow, Built to 4"
ISI: No Blow Back
FF: Fair Blow, BOB in 12 minutes
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.27	112.13	Initial Hydro-static
7	23.83	112.42	Open To Flow (1)
21	86.04	114.64	Shut-In(1)
68	1434.47	117.55	End Shut-In(1)
69	99.68	117.51	Open To Flow (2)
117	156.25	122.08	Shut-In(2)
207	1428.49	122.16	End Shut-In(2)
208	2125.17	121.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	819 GIP	0.00
184.00	Water	0.90
63.00	MCW 30%M 70%W	0.60
63.00	GMOCW 20%G 10%O 30%M 40%W	0.88
2.00	Oil	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50925 **DST#: 1**

Test Start: 2013.05.20 @ 00:19:03

GENERAL INFORMATION:

Formation: **Kansas City "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:45:03
Time Test Ended: 08:21:03

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 45

Interval: 4434.00 ft (KB) To 4465.00 ft (KB) (TVD)
Total Depth: 4465.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

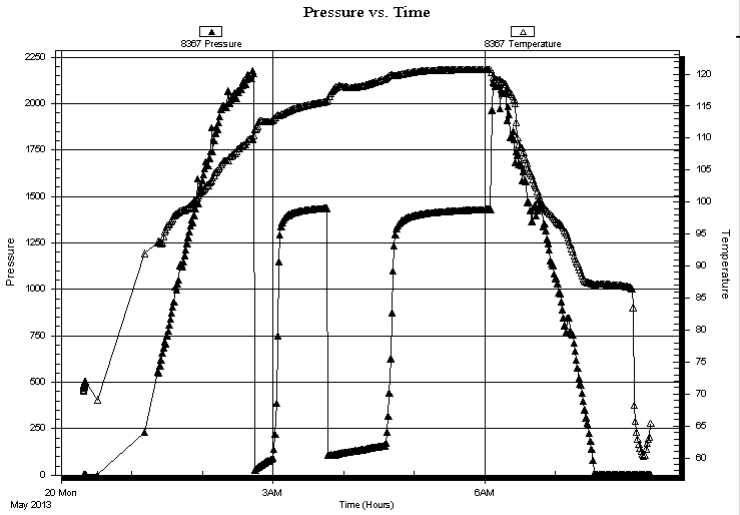
Reference Elevations: 2197.00 ft (KB)
2186.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 4435.00 ft (KB)
Start Date: 2013.05.20 End Date: 2013.05.20
Start Time: 00:19:04 End Time: 08:20:48

Capacity: 8000.00 psig
Last Calib.: 2013.05.20
Time On Btm:
Time Off Btm:

TEST COMMENT:
IF: Fair Blow, Built to 4"
ISI: No Blow Back
FF: Fair Blow, BOB in 12 minutes
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	819 GIP	0.00
184.00	Water	0.90
63.00	MCW 30%M 70%W	0.60
63.00	GMOCW 20%G 10%O 30%M 40%W	0.88
2.00	Oil	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50925 **DST#: 1**

Test Start: 2013.05.20 @ 00:19:03

Tool Information

Drill Pipe:	Length:	4208.00 ft	Diameter:	3.80	inches	Volume:	59.03	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:	215.00 ft	Diameter:	2.25	inches	Volume:	1.06	bbl	Weight to Pull Loose:	85000.00 lb
						Total Volume:	60.09	bbl	Tool Chased	ft
Drill Pipe Above KB:		11.00 ft							String Weight: Initial	75000.00 lb
Depth to Top Packer:		4434.00 ft							Final	76000.00 lb
Depth to Bottom Packer:		ft								
Interval between Packers:		31.00 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			4417.00		
Hydraulic tool	5.00			4422.00		
Safety Joint	2.00			4424.00		
Packer	5.00			4429.00	22.00	Bottom Of Top Packer
Packer	5.00			4434.00		
Stubb	1.00			4435.00		
Recorder	0.00	6798	Inside	4435.00		
Recorder	0.00	8367	Outside	4435.00		
Perforations	27.00			4462.00		
Bullnose	3.00			4465.00	31.00	Bottom Packers & Anchor
Total Tool Length:	**53.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50925 **DST#: 1**

Test Start: 2013.05.20 @ 00:19:03

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:	100000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.58 in³	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	819 GIP	0.000
184.00	Water	0.905
63.00	MCW 30%M 70%W	0.601
63.00	GMOCW 20%G 10%O 30%M 40%W	0.884
2.00	Oil	0.028

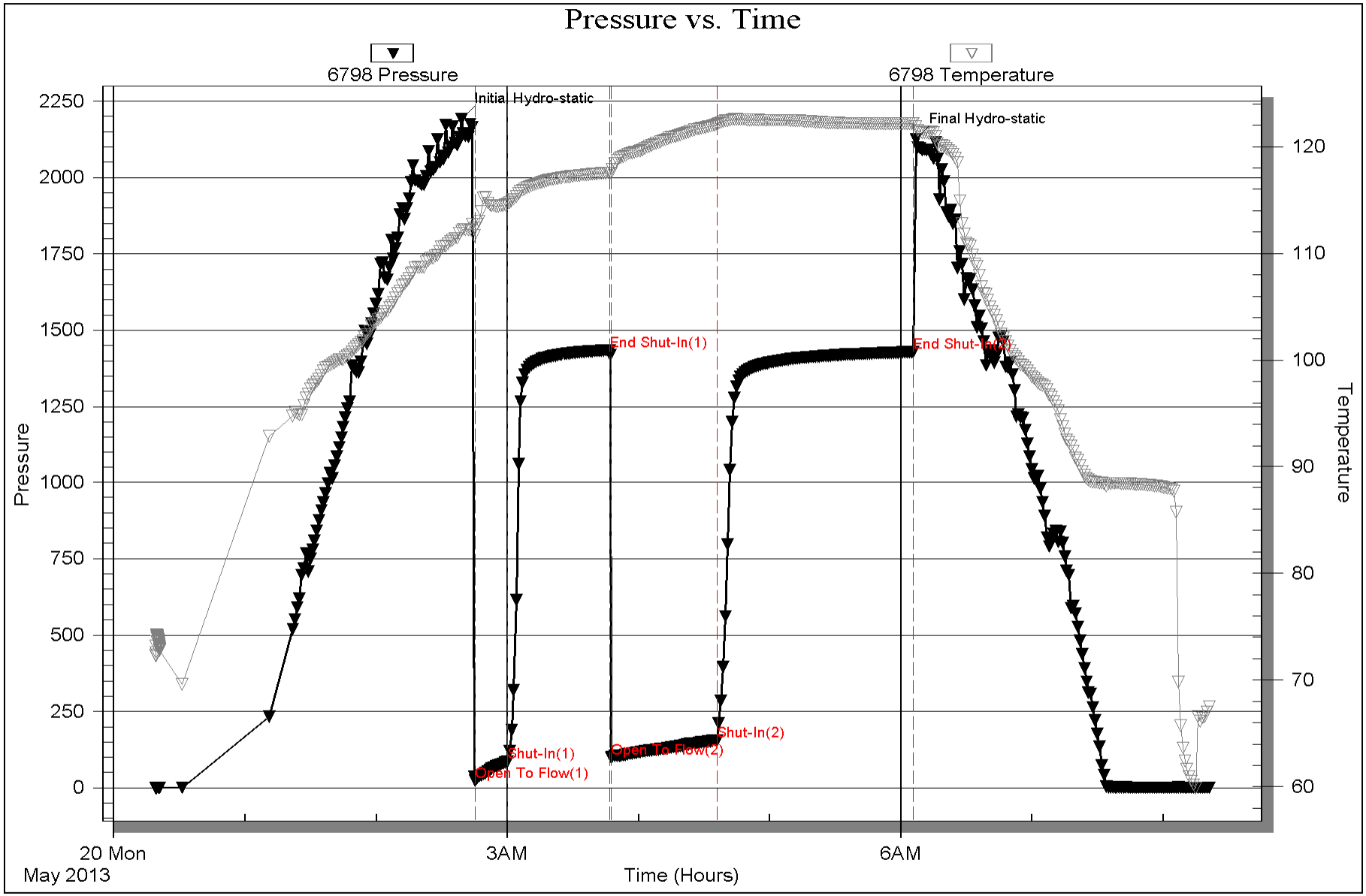
Total Length: 312.00 ft Total Volume: 2.418 bbl

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

Laboratory Name: Laboratory Location:

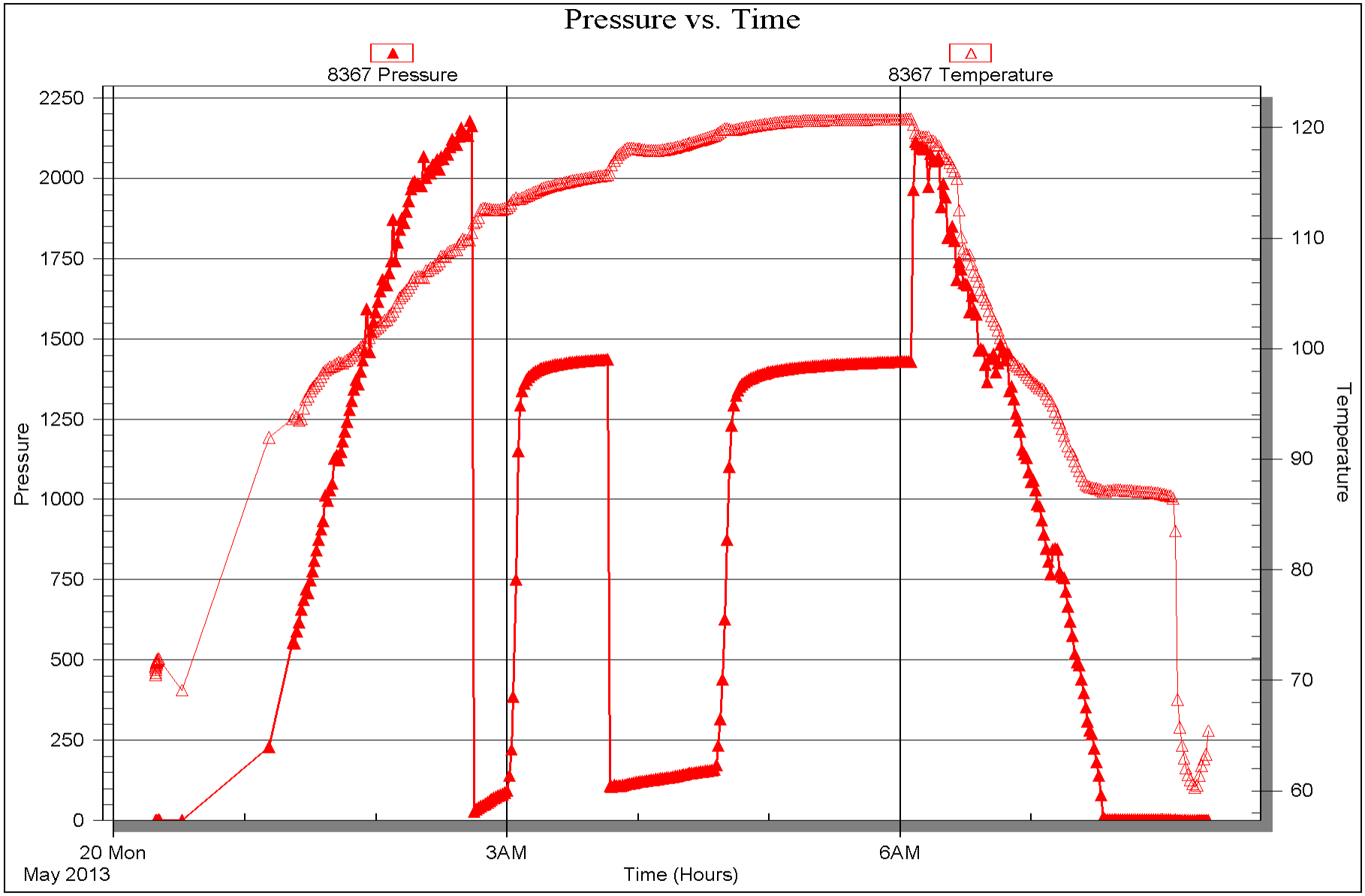
Recovery Comments: RW was .08 @ 69 degrees

Serial #: 6798 **Inside** Herman L Loeb LLC Blessed Acres #2-18 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 50925 Printed: 2013.05.29 @ 14:20:50

Serial #: 8367 **Outside** Herman L Loeb LLC Blessed Acres #2-18 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 50925 Printed: 2013.05.29 @ 14:20:50

DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb LLC**

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

Blessed Acres #2-18

18-27s-18w Kiowa,KS

Start Date: 2013.05.21 @ 19:07:44

End Date: 2013.05.22 @ 03:24:29

Job Ticket #: 50976 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.29 @ 14:19:59

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50976 **DST#: 2**

Test Start: 2013.05.21 @ 19:07:44

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:57:29
Time Test Ended: 03:24:29

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45

Interval: 4726.00 ft (KB) To 4794.00 ft (KB) (TVD)
Total Depth: 4794.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

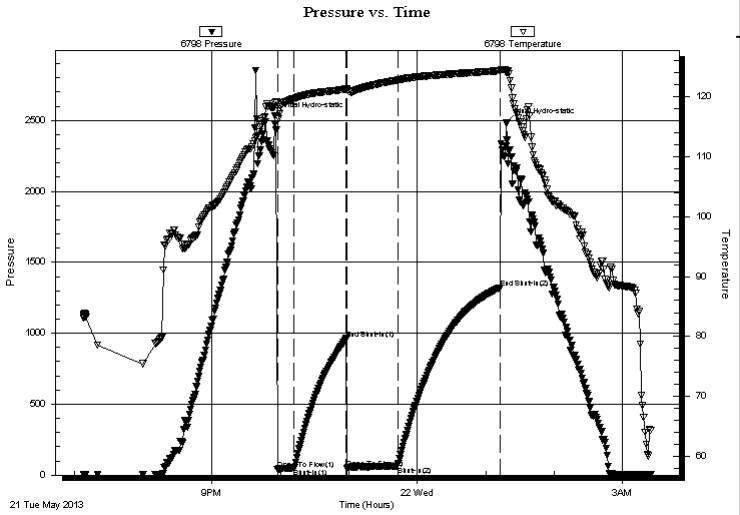
Reference Elevations: 2197.00 ft (KB)
2186.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 64.45 psig @ 4727.00 ft (KB)
Start Date: 2013.05.21 End Date: 2013.05.22
Start Time: 19:07:45 End Time: 03:24:29

Capacity: 8000.00 psig
Last Calib.: 2013.05.22
Time On Btm: 2013.05.21 @ 21:54:59
Time Off Btm: 2013.05.22 @ 01:18:14

TEST COMMENT:
IF: Strong Blow , BOB in 2 1/2 minutes
ISI: No Blow Back
FF: Strong Blow , BOB Immediate
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2528.92	118.40	Initial Hydro-static
3	42.75	118.41	Open To Flow (1)
18	50.86	119.70	Shut-In(1)
63	962.22	121.30	End Shut-In(1)
64	50.34	121.33	Open To Flow (2)
108	64.45	122.77	Shut-In(2)
198	1320.64	124.36	End Shut-In(2)
204	2481.60	124.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	660 GIP	0.00
90.00	GCM 5%G 95%M	0.44

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50976 **DST#: 2**

Test Start: 2013.05.21 @ 19:07:44

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:57:29
Time Test Ended: 03:24:29

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45

Interval: 4726.00 ft (KB) To 4794.00 ft (KB) (TVD)
Total Depth: 4794.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

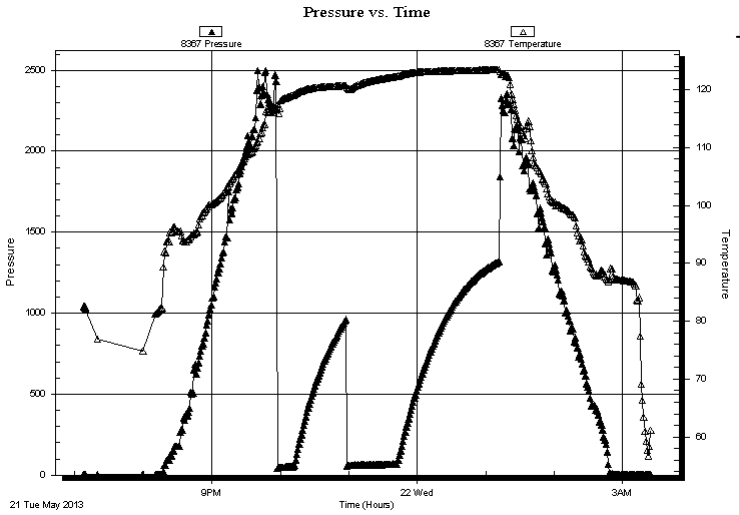
Reference Elevations: 2197.00 ft (KB)
2186.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 4727.00 ft (KB)
Start Date: 2013.05.21 End Date: 2013.05.22
Start Time: 19:07:45 End Time: 03:24:29

Capacity: 8000.00 psig
Last Calib.: 2013.05.22
Time On Btm:
Time Off Btm:

TEST COMMENT:
IF: Strong Blow, BOB in 2 1/2 minutes
ISI: No Blow Back
FF: Strong Blow, BOB Immediate
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	660 GIP	0.00
90.00	GCM 5%G 95%M	0.44

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50976 **DST#: 2**

Test Start: 2013.05.21 @ 19:07:44

Tool Information

Drill Pipe:	Length:	4497.00 ft	Diameter:	3.80	inches	Volume:	63.08	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:	215.00 ft	Diameter:	2.25	inches	Volume:	1.06	bbl	Weight to Pull Loose:	85000.00 lb
						Total Volume:	64.14	bbl	Tool Chased	ft
Drill Pipe Above KB:		8.00 ft							String Weight: Initial	78000.00 lb
Depth to Top Packer:		4726.00 ft							Final	79000.00 lb
Depth to Bottom Packer:		ft								
Interval between Packers:		68.00 ft								
Tool Length:		90.00 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			4709.00		
Hydraulic tool	5.00			4714.00		
Safety Joint	2.00			4716.00		
Packer	5.00			4721.00	22.00	Bottom Of Top Packer
Packer	5.00			4726.00		
Stubb	1.00			4727.00		
Recorder	0.00	6798	Inside	4727.00		
Recorder	0.00	8367	Outside	4727.00		
Perforations	5.00			4732.00		
Change Over Sub	1.00			4733.00		
Drill Pipe	32.00			4765.00		
Change Over Sub	1.00			4766.00		
Perforations	25.00			4791.00		
Bullnose	3.00			4794.00	68.00	Bottom Packers & Anchor
Total Tool Length:	**90.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb LLC

PO Box 838
Law erenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50976 **DST#: 2**

Test Start: 2013.05.21 @ 19:07:44

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:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	12.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5100.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	660 GIP	0.000
90.00	GCM 5%G 95%M	0.443

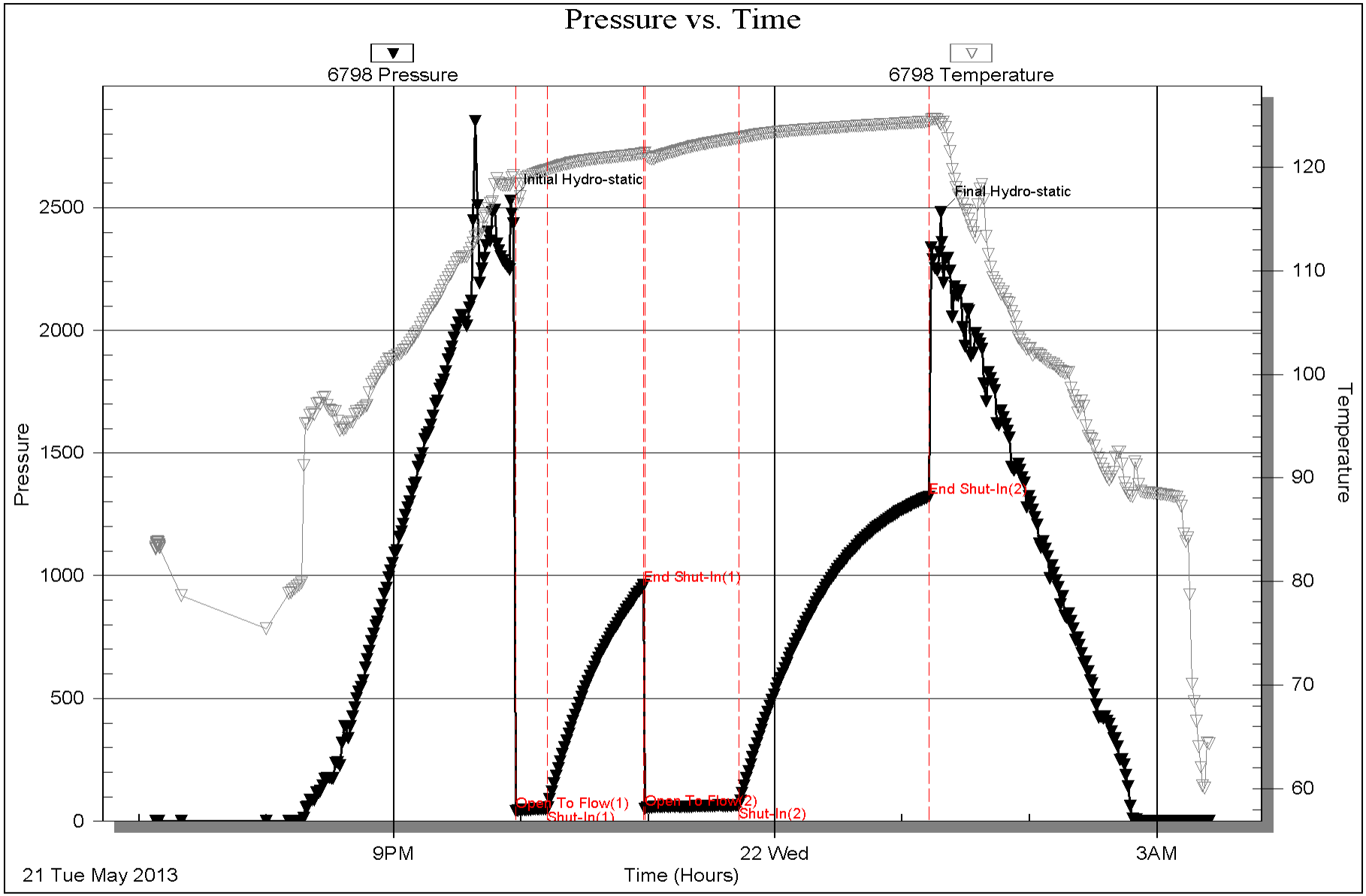
Total Length: 90.00 ft Total Volume: 0.443 bbl

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

Laboratory Name: Laboratory Location:

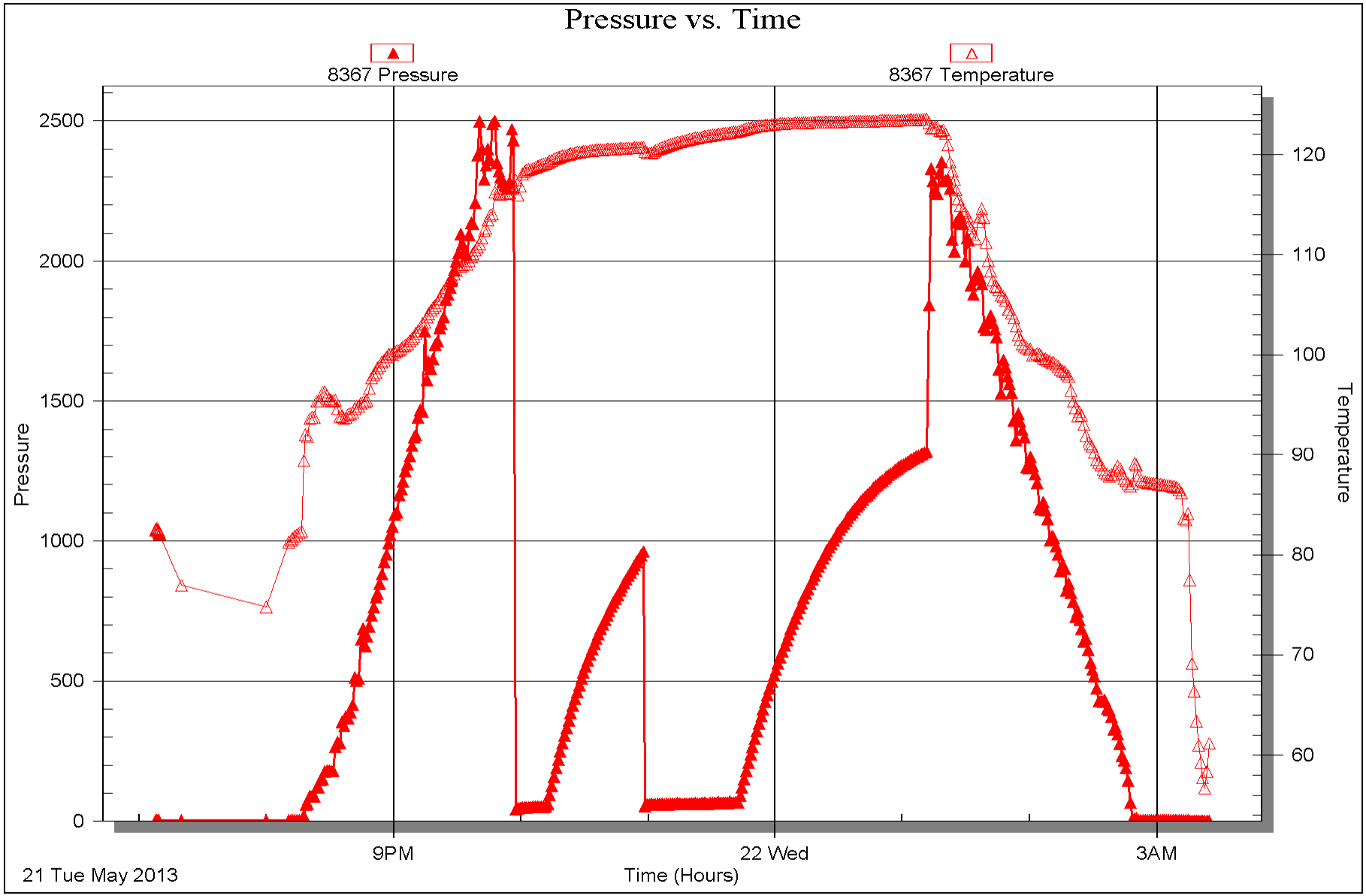
Recovery Comments:

Serial #: 6798 **Inside** Herman L Loeb LLC Blessed Acres #2-18 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 50976 Printed: 2013.05.29 @ 14:20:02

Serial #: 8367 **Outside** Herman L Loeb LLC Blessed Acres #2-18 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 50976 Printed: 2013.05.29 @ 14:20:04

DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb LLC**

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

Blessed Acres #2-18

18-27s-18w Kiowa,KS

Start Date: 2013.05.22 @ 13:44:42

End Date: 2013.05.22 @ 22:07:27

Job Ticket #: 50977 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.29 @ 14:18:34

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50977 **DST#: 3**

Test Start: 2013.05.22 @ 13:44:42

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:15:42
Time Test Ended: 22:07:27

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45

Interval: 4794.00 ft (KB) To 4814.00 ft (KB) (TVD)
Total Depth: 4814.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

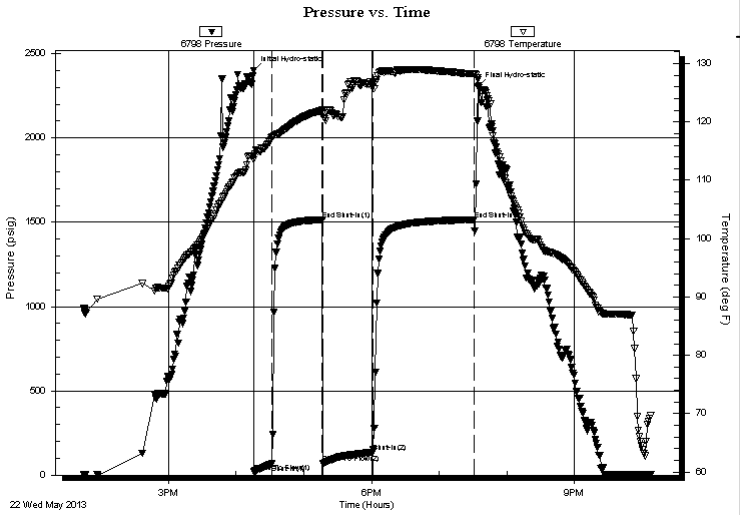
Reference Elevations: 2197.00 ft (KB)
2186.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 136.17 psig @ 4795.00 ft (KB)
Start Date: 2013.05.22 End Date: 2013.05.22
Start Time: 13:44:43 End Time: 22:07:27

Capacity: 8000.00 psig
Last Calib.: 2013.05.22
Time On Btm: 2013.05.22 @ 16:15:27
Time Off Btm: 2013.05.22 @ 19:34:12

TEST COMMENT:
IF: Weak Blow , Built to 4 1/4"
ISI: No Blow Back
FF: Weak Blow , Built to 6 1/2"
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2401.65	114.08	Initial Hydro-static
1	19.94	113.53	Open To Flow (1)
16	65.30	117.32	Shut-In(1)
61	1515.83	122.00	End Shut-In(1)
62	70.96	121.37	Open To Flow (2)
106	136.17	126.81	Shut-In(2)
196	1516.12	128.25	End Shut-In(2)
199	2304.07	127.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Water	0.91
63.00	MCW 40%M 60%W	0.61
30.00	SOMCW 1%O 45%M 54%W	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50977 **DST#: 3**

Test Start: 2013.05.22 @ 13:44:42

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:15:42
Time Test Ended: 22:07:27

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 45

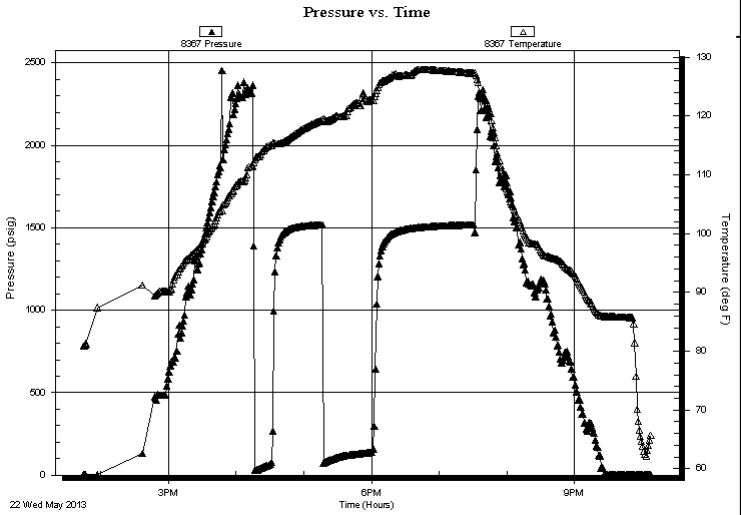
Interval: 4794.00 ft (KB) To 4814.00 ft (KB) (TVD)
Total Depth: 4814.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2197.00 ft (KB)
2186.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8367 **Outside**

Press@RunDepth:	psig @	4795.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2013.05.22	End Date:	2013.05.22	Last Calib.:	2013.05.22
Start Time:	13:44:43	End Time:	22:07:27	Time On Btm:	
				Time Off Btm:	

TEST COMMENT:
IF: Weak Blow , Built to 4 1/4"
ISI: No Blow Back
FF: Weak Blow , Built to 6 1/2"
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Water	0.91
63.00	MCW 40%M 60%W	0.61
30.00	SOMCW 1%O 45%M 54%W	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC.

Herman L Loeb LLC

PO Box 838
Lawerenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50977 **DST#: 3**

Test Start: 2013.05.22 @ 13:44:42

Tool Information

Drill Pipe:	Length:	4590.00 ft	Diameter:	3.80	inches	Volume:	64.39	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:	215.00 ft	Diameter:	2.25	inches	Volume:	1.06	bbl	Weight to Pull Loose:	100000.0 lb
						Total Volume:	65.45	bbl	Tool Chased	ft
Drill Pipe Above KB:		33.00 ft							String Weight: Initial	78000.00 lb
Depth to Top Packer:		4794.00 ft							Final	78000.00 lb
Depth to Bottom Packer:		ft								
Interval between Packers:		20.00 ft								
Tool Length:		42.00 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			4777.00		
Hydraulic tool	5.00			4782.00		
Safety Joint	2.00			4784.00		
Packer	5.00			4789.00	22.00	Bottom Of Top Packer
Packer	5.00			4794.00		
Stubb	1.00			4795.00		
Recorder	0.00	6798	Inside	4795.00		
Recorder	0.00	8367	Outside	4795.00		
Perforations	16.00			4811.00		
Bullnose	3.00			4814.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**42.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb LLC

PO Box 838
Law erenceville, IL 62439

ATTN: Jon Christensen

18-27s-18w Kiowa,KS

Blessed Acres #2-18

Job Ticket: 50977 **DST#: 3**

Test Start: 2013.05.22 @ 13:44:42

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:	120000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	12.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5100.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Water	0.910
63.00	MCW 40%M 60%W	0.610
30.00	SOMCW 1%O 45%M 54%W	0.421

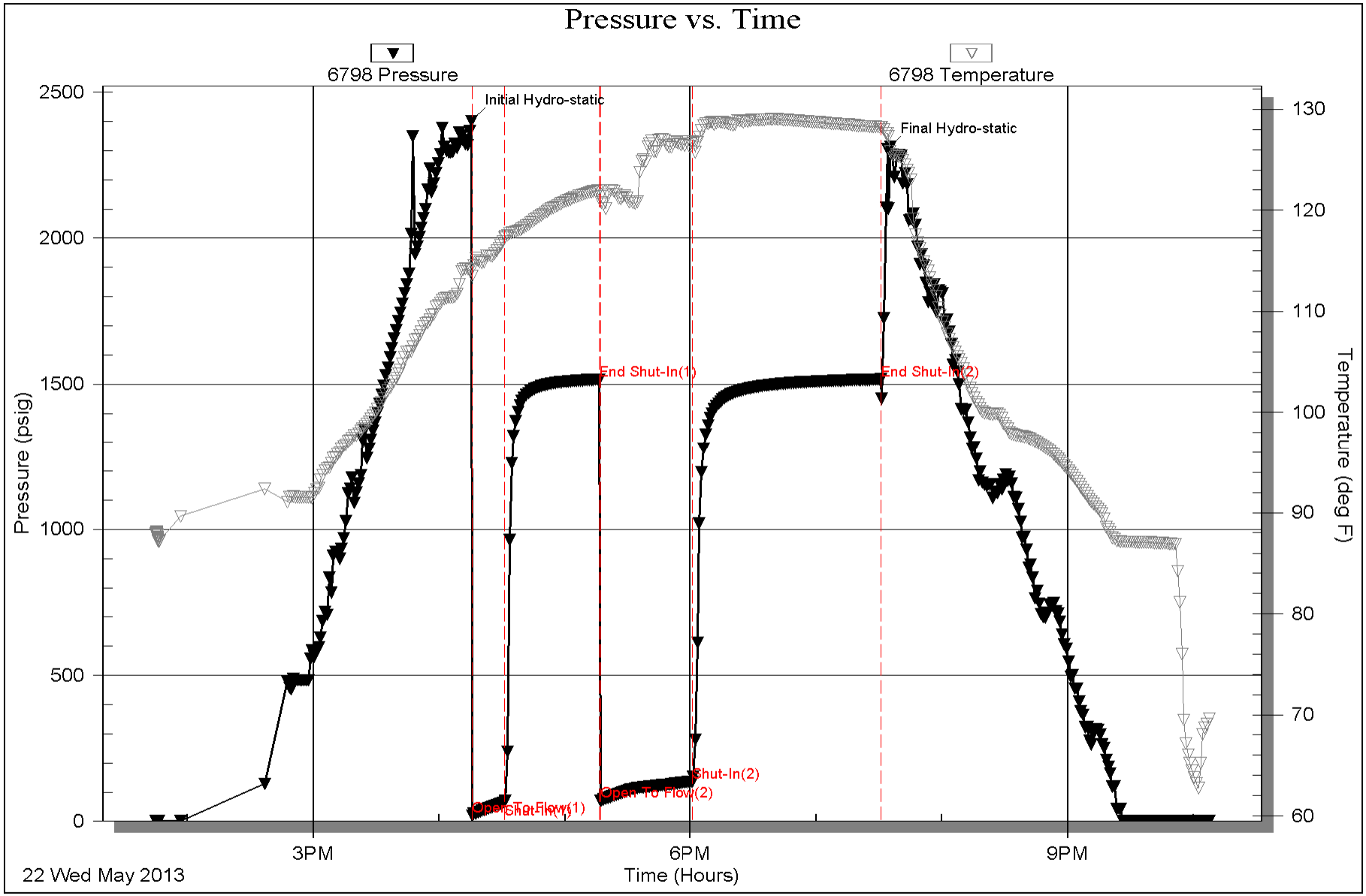
Total Length: 278.00 ft Total Volume: 1.941 bbl

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

Laboratory Name: Laboratory Location:

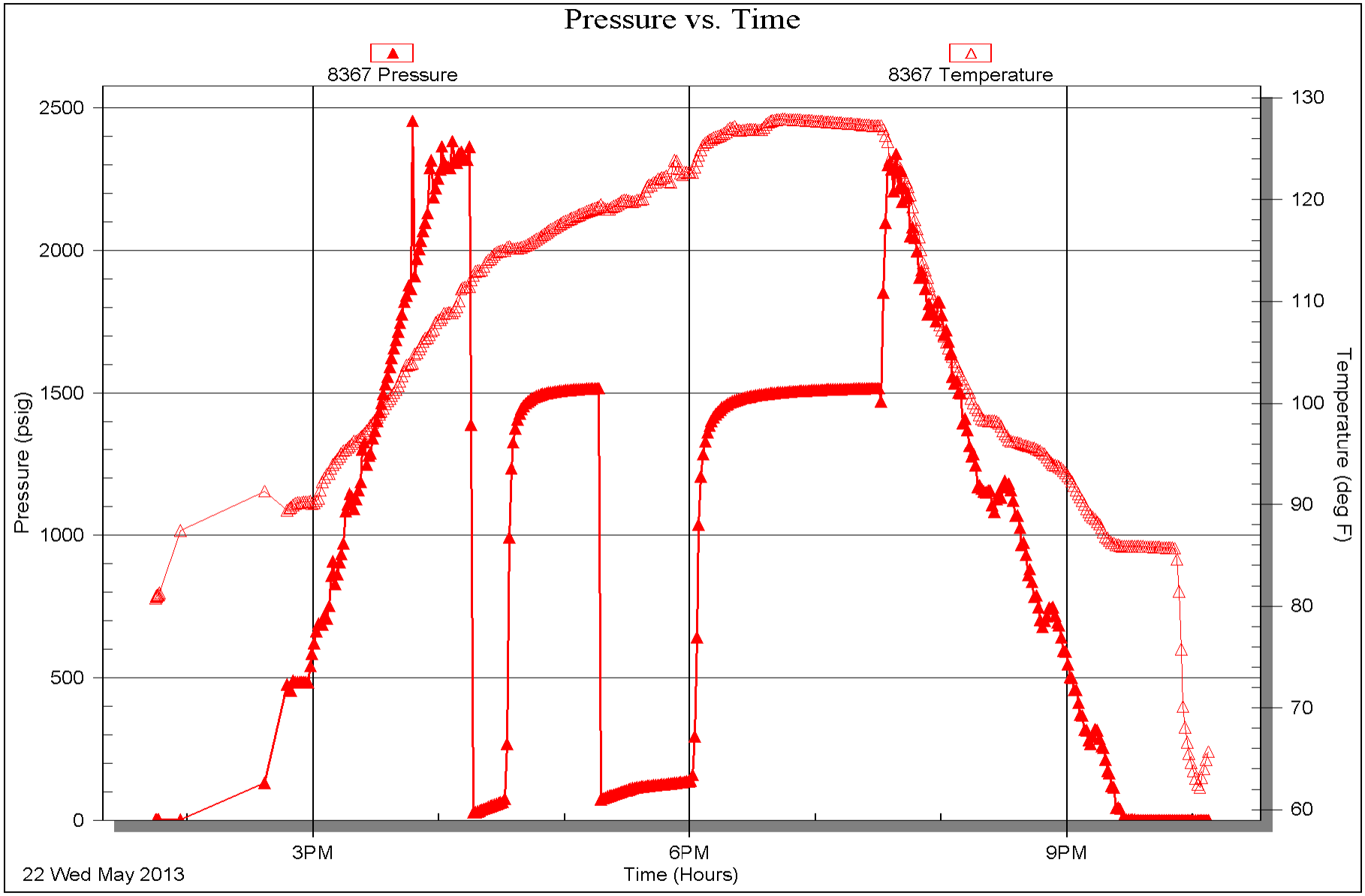
Recovery Comments: RW w as .065 @ 76 degrees

Serial #: 6798 **Inside** Herman L Loeb LLC Blessed Acres #2-18 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 50977 Printed: 2013.05.29 @ 14:18:37

Serial #: 8367 **Outside** Herman L Loeb LLC Blessed Acres #2-18 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 50977 Printed: 2013.05.29 @ 14:18:37

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601
4/10

Test Ticket

NO. 50925

Well Name & No. Blessed Acres 2-18 Test No. 1 Date 05/19/13
Company Herman L Loeb LLC Elevation 2197 KB 2186 GL
Address PO Box 838 Lawerenceville, IL 62439
Co. Rep / Geo. Jon Christensen Rig Sterling 2
Location: Sec. 18 Twp. 27S Rge. 18W Co. Kiowa State KS

Interval Tested 4434 – 4465 Zone Tested Kansas City "J"
Anchor Length 31 Drill Pipe Run 4208 Mud Wt. 9.3
Top Packer Depth 4429 Drill Collars Run 215 Vis 54
Bottom Packer Depth 4434 Wt. Pipe Run 0 WL 11.6
Total Depth 4465 Chlorides 5000 ppm System LCM 1

Blow Description IF: Fair Blow, Built to 4 inches
ISI: No Blow Back
FF: Fair Blow, BOB in 12 minutes
FSI: No Blow Back

Rec	819	Feet of GIP	%gas	%oil	%water	%mud		
Rec	2	Feet of Oil	%gas	%oil	%water	%mud		
Rec	63	Feet of GMOCW	20 %gas	10 %oil	40 %water	30 %mud		
Rec	63	Feet of MCW	%gas	%oil	70 %water	30 %mud		
Rec	184	Feet of water	%gas	%oil	%water	%mud		

Rec Total 312 BHT 122 Gravity N/C API RW .08 @ 69 °F Chlorides 100,000 ppm

(A) Initial Hydrostatic	2190	☑ Test	1250	T-On Location	22:30
(B) First Initial Flow	24	☐ Jars		T-Started	00:19
(C) First Final Flow	86	☑ Safety Joint	75	T-Open	02:45
(D) Initial Shut-In	1434	☐ Circ Sub		T-Pulled	06:05
(E) Second Initial Flow	106	☐ Hourly Standby		T-Out	08:21
(F) Second Final Flow	156	☑ Mileage	(90) 139.50	Comments	
(G) Final Shut-In	1428	☐ Sampler			
(H) Final Hydrostatic	2125	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	15	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1464.50
Final Shut-In	90	☐ Accessibility		MP/DST Disc't	✓
		Sub Total	1464.50		

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
4/10

Test Ticket

NO. 50976

Well Name & No. Blessed Acres 2-18 Test No. 2 Date 05/21/13
Company Herman L Loeb LLC Elevation 2197 KB 2186 GL
Address PO Box 838 Lawrenceville, Il 62439
Co. Rep / Geo. Jim Hall Rig Sterling 2
Location: Sec. 18 Twp. 27S Rge. 18W Co. Kiowa State KS

Interval Tested 4726 – 4794 Zone Tested Mississippi
Anchor Length 68 Drill Pipe Run 4497 Mud Wt. 9.3
Top Packer Depth 4721 Drill Collars Run 215 Vis 59
Bottom Packer Depth 4726 Wt. Pipe Run 0 WL 12.4
Total Depth 4794 Chlorides 5100 ppm System LCM 1

Blow Description IF: Strong Blow, BOB in 2 1/2 minutes
ISI: No Blow Back
FF: Strong Blow, BOB immediate
FSI: No Blow Back

Rec 660	Feet of GIP	%gas	%oil	%water	%mud
Rec 90	Feet of GCM	5 %gas	%oil	%water	95 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 124 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic	2529	☑ Test	1250	T-On Location	18:15
(B) First Initial Flow	43	☐ Jars		T-Started	19:07
(C) First Final Flow	51	☑ Safety Joint	75	T-Open	21:57
(D) Initial Shut-In	962	☐ Circ Sub		T-Pulled	01:12
(E) Second Initial Flow	50	☐ Hourly Standby		T-Out	03:24
(F) Second Final Flow	64	☑ Mileage	90 139.50	Comments	
(G) Final Shut-In	1321	☐ Sampler			
(H) Final Hydrostatic	2481	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	15	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	333.33
Final Flow	45	☑ Day Standby	1/2 1d 10h	Total	1797.83
Final Shut-In	90	☐ Accessibility		MP/DST Disc't	✓
		Sub Total	1464.50		

Approved By J R Hall Our Representative

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
4/10

Test Ticket

NO. 50977

Well Name & No. Blessed Acres 2-18 Test No. 3 Date 05/22/13
Company Herman L. Loeb LLC Elevation 2197 KB 2186 GL
Address PO Box 838 Lawerenceville, Il 62439
Co. Rep / Geo. Jim Hall Rig Sterling 2
Location: Sec. 18 Twp. 27S Rge. 18W Co. Kiowa State KS

Interval Tested 4794 – 4814 Zone Tested Mississippi
Anchor Length 20 Drill Pipe Run 4590 Mud Wt. 9.1
Top Packer Depth 4789 Drill Collars Run 215 Vis 54
Bottom Packer Depth 4794 Wt. Pipe Run 0 WL 12.4
Total Depth 4814 Chlorides 5100 ppm System LCM 2

Blow Description IF: Weak Blow, Built to 4 1/4 inches
ISI: NO Blow Back
FF: Weak Blow Built to 6 1/2 inches
FSI: NO Blow Back

Rec 30	Feet of SO MCW	%gas 1	%oil 54	%water 45	%mud
Rec 63	Feet of MCW	%gas	%oil 60	%water 40	%mud
Rec 135	Feet of water	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 278 BHT 127 Gravity N/C API RW .065 @ 76 °F Chlorides 120,000 ppm

(A) Initial Hydrostatic	2401	☑ Test	1250	T-On Location	12:15
(B) First Initial Flow	20	☐ Jars		T-Started	13:44
(C) First Final Flow	65	☑ Safety Joint	75	T-Open	16:15
(D) Initial Shut-In	1516	☐ Circ Sub		T-Pulled	19:30
(E) Second Initial Flow	71	☐ Hourly Standby		T-Out	22:07
(F) Second Final Flow	136	☑ Mileage	90	Comments	
(G) Final Shut-In	1516	☐ Sampler			
(H) Final Hydrostatic	2304	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	15	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1464.50
Final Shut-In	90	☐ Accessibility		MP/DST Disc't	✓
		Sub Total	1464.50		

Approved By R Hall Our Representative

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.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 14, 2013

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

Re: ACO1
API 15-097-21754-00-00
BLESSED ACRES 2-18
SE/4 Sec.18-27S-18W
Kiowa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jesse Middagh