



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1074969

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <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	Chieftain Oil Co., Inc.
Well Name	Jake 2
Doc ID	1074969

All Electric Logs Run

Sector Bond / Gamma Ray Log
Geological Log
Micro Log
Compensated Density / Neutron Log
Dual Induction Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Jake 2
Doc ID	1074969

Tops

Name	Top	Datum
Heebner	3752	-2123
Lansing	3951	-2322
Stark Sh	4418	-2789
Hushpuckney Sh	4445	-2816
Base Kansas City	4478	-2849
Altamont	4515	-2886
Pawnee	4588	-2959
Cherokee	4635	-3006
Mississippian	4660	-3031
Kinderhook	4880	-3251
Viola	4992	-3363
Simpson	5082	-3453
Simpson Sd.	5098	-3469
Total Depth	5235	

# David A. Barker



## CONSULTING GEOLOGIST

Geologist's Report  
Drilling Time and Sample Log

**OPERATOR** Chieftain Oil Company, Inc  
**LEASE** Jake **WELL NO.** 2  
**FIELD** Traffas **API No.** 15-007-23718  
**LOCATION** 2260' FNL & 850' FWL NW SE SW NW  
**SEC.** 18 **TWP.** 33S **RGE.** 10W  
**COUNTY** Barber **STATE** Kansas

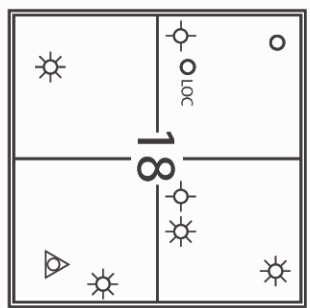
**CONTRACTOR** Fosile #2  
**COMM.** 9/20/2011 **COMP.** 9/30/2011  
**RTD** 5235 **LOG TD** 5228  
**SAMPLES SAVED FROM** 3500 **TO** T.D.  
**DRILLING TIME KEPT FROM** 3200 **TO** T.D.  
**SAMPLES EXAMINED FROM** 3500 **TO** T.D.  
**GEOLOGICAL SUPERVISION FROM** 3700 **TO** T.D.  
**MUD UP** 3200 **TYPE MUD** Chemical

FORMATION	TOP	LOG DATUM	TOP DATUM	SAMPLE DATUM	STRUCT. COMP.
Heebner	3752	-2123	3762	-2133	+6
Lansing	3951	-2322	3961	-2332	+11
Stark Sh	4418	-2789	4428	-2799	+7
Hushpuckney Sh	4445	-2816	4456	-2827	+7
Base K.C.	4478	-2849	4488	-2857	+8
Altamont	4515	-2886	4524	-2895	+9
Pawnee	4588	-2959	4598	-2969	+10
Cherokee	4635	-3006	4646	-3017	+8
Mississippian	4660	-3031	4664	-3035	+4
Kinderhook	4880	-3251	4894	-3265	DNP
Viola	4992	-3363	5002	-3373	DNP
Simpson	5082	-3453	5094	-3465	DNP
Simpson Sd.	5098	-3469	5110	-3481	DNP
Arbuckle		DNP		DNP	DNP

**ELEVATION**  
**KB** 1629  
**DF** 1627  
**GL** 1621  
Measurements Are All From KB

**CASING RECORD**  
**SURFACE** 8 5/8" @ 328  
300 SX  
**PRODUCTION** 5 1/2" @  
5235 229 SX

**ELECTRICAL SURVEYS**  
Superior - Gamma Ray,  
Dual Induction,  
Compensated Neutron &  
Density, S.P. & Caliper



**REFERENCE WELL FOR STRUCTURAL POSITION** 18 - T33S - R10W, Circle #1,  
2310' FNL & 455' FWL, SW SW NW

### GEOLOGIST

**Name:** David A. Barker  
**Company:**  
**Address:** 212 N. Market, Suite# 320  
Wichita, Kansas 67202  
(316) 259-4294, 2 Barker@sbcglobal.net

### OPERATOR

**Company:** Chieftain Oil Co., Inc.  
**Address:** 605 S. 6th, P.O. Box 124  
Kiowa, Kansas 67070

### Daily Status

- 9-20-2011: set 8 5/8 casing to 328' with 300 SX cement, plug down at 2:30 a.m.
- 9-21-2011: Morning depth: 1730'
- 9-22-2011: Morning depth: 2616'
- 9-23-2011: Morning depth: 3325'
- 9-24-2011: Morning depth: 3895'
- 9-25-2011: Morning depth: 4398'
- 9-26-2011: Morning depth: 4485', DST #1, 4456' to 4482'
- 9-27-2011: Morning depth: 5010', DST #2 4896' to 5010'
- 9-28-2011: Morning depth: 5010', DST #2 4896' to 5010'

9-29-2011: Morning depth: 5034'

9-30-2011: Morning depth: 5235' frun E-log, ran 124 Jts of 5 1/2" casing with 229 SX of cement.

### Remarks

Recommended perforation intervals are: 4660-4664 & 4679-4685. Once these zones are exhausted and before abandonment, two zones should be further evaluated through perforation and acidation: the Pawnee from 4589-4592, and the Hertha from 4454-4460.

# DST # 1

"Hertha" 4456' to 4482', 30-60-45- 60, IF period: strong blow, B.O.B. in 4 minutes, FF period: strong blow, B.O.B. in 2 seconds, REC: 2040' gas in pipe, and 20' of drilling mud, IHP 2187#, IFP# 15-18#, FFP 11 to 16#, BHP 987 to 1065#.

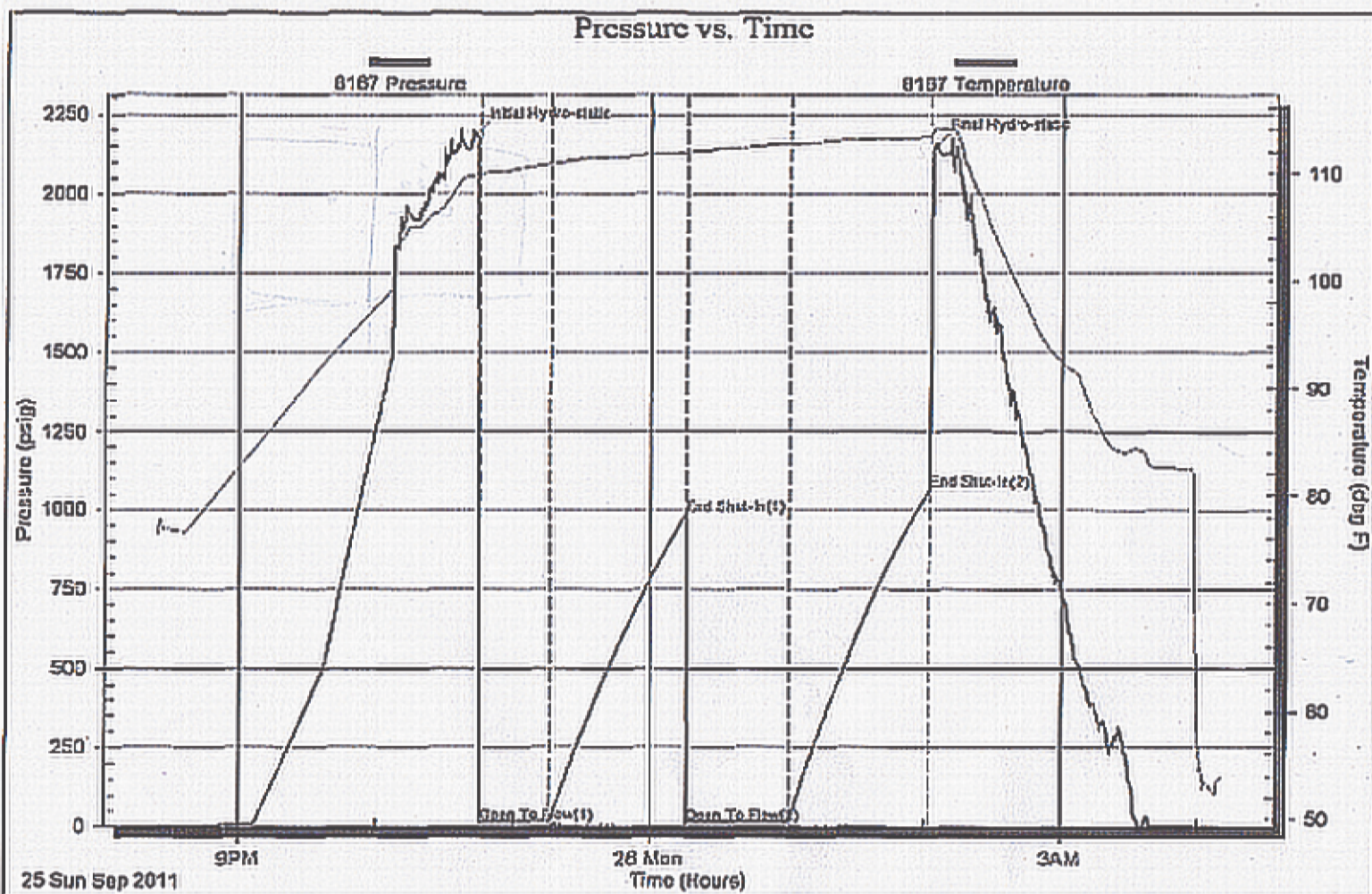
Serial #: B167

Inside

Chief/In Charge

18-334-10w Barber Ks

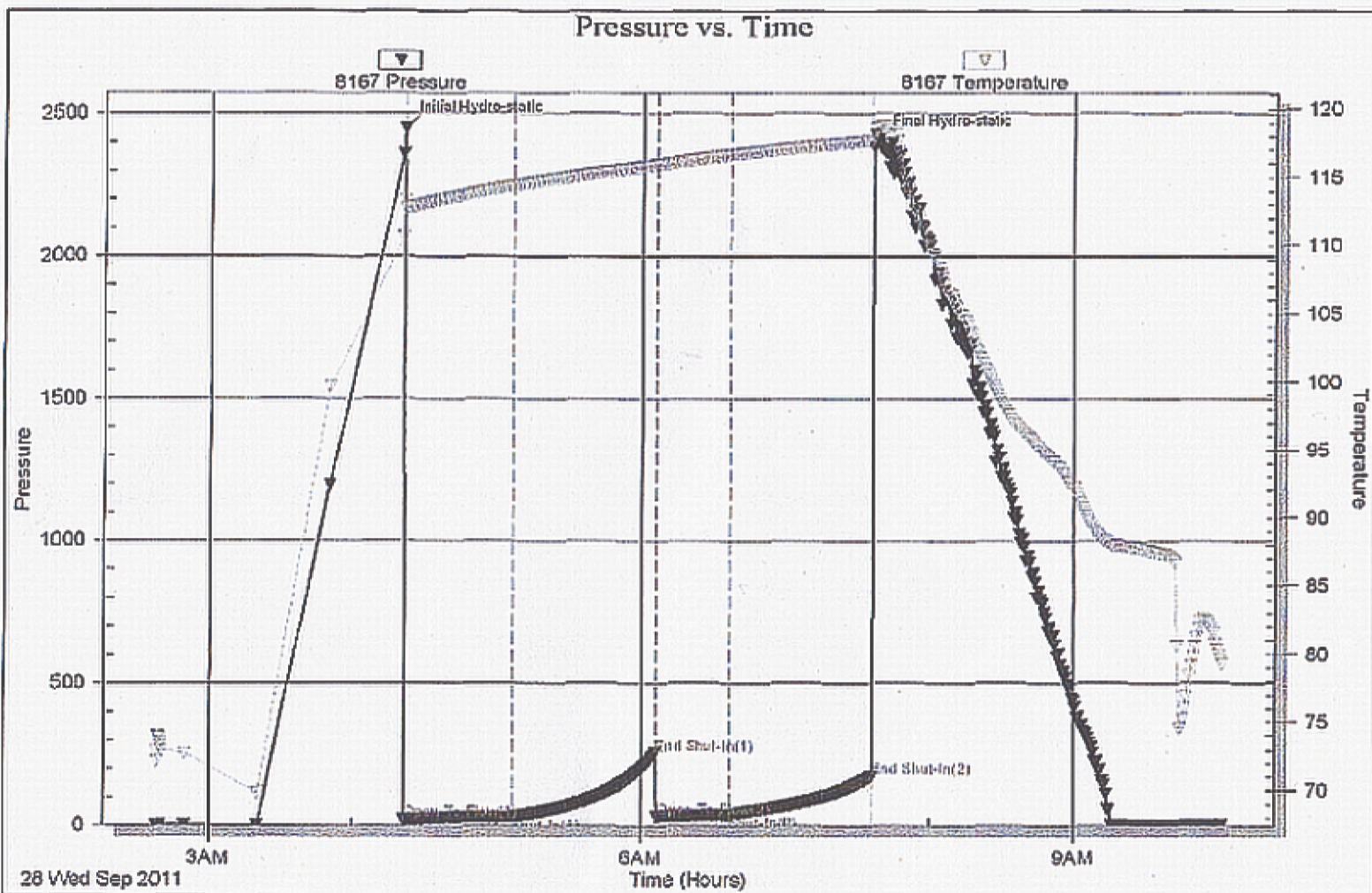
DST Test Number: 1



# DST # 2

"Miesner Sand", 4896' to 5010', 45-60-30-60, IFP weak blow 1/2" to 1 1/2", FFP no blow,

Pressure vs. Time



FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet



- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar

ACCESSORIES



- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol

- Sand
- Sily

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt

- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS



Fracture

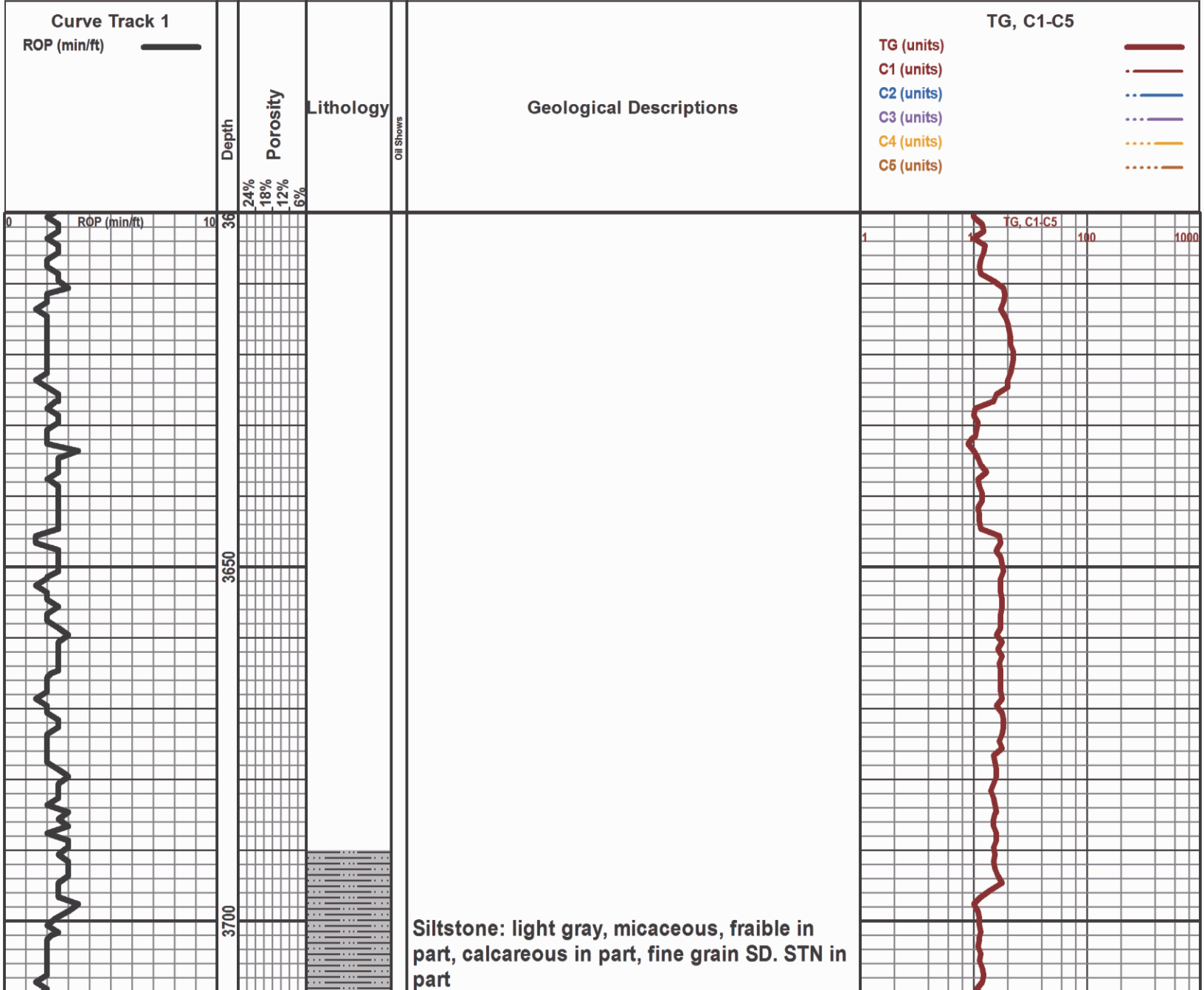
Carb shale

Brown lmst

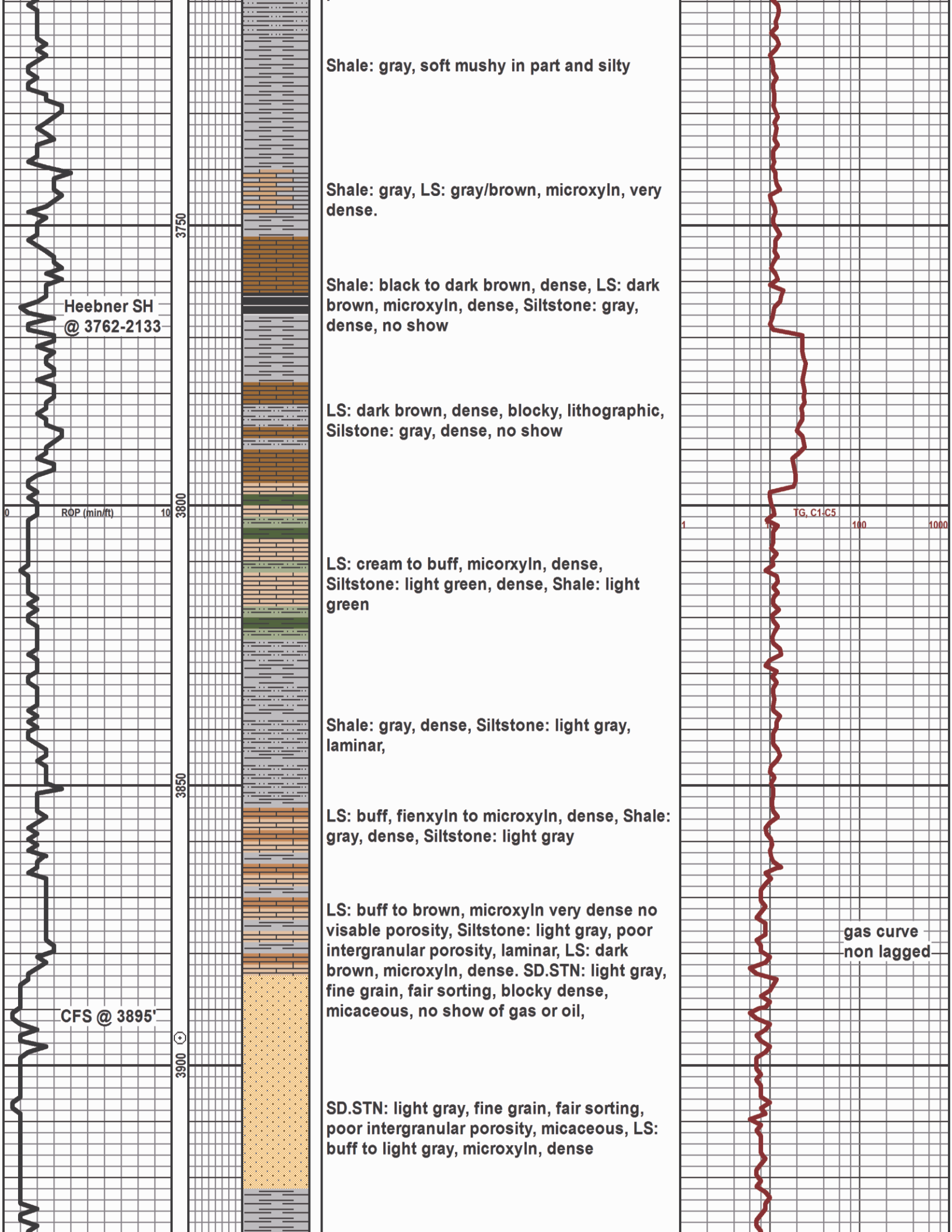
ROUNDING

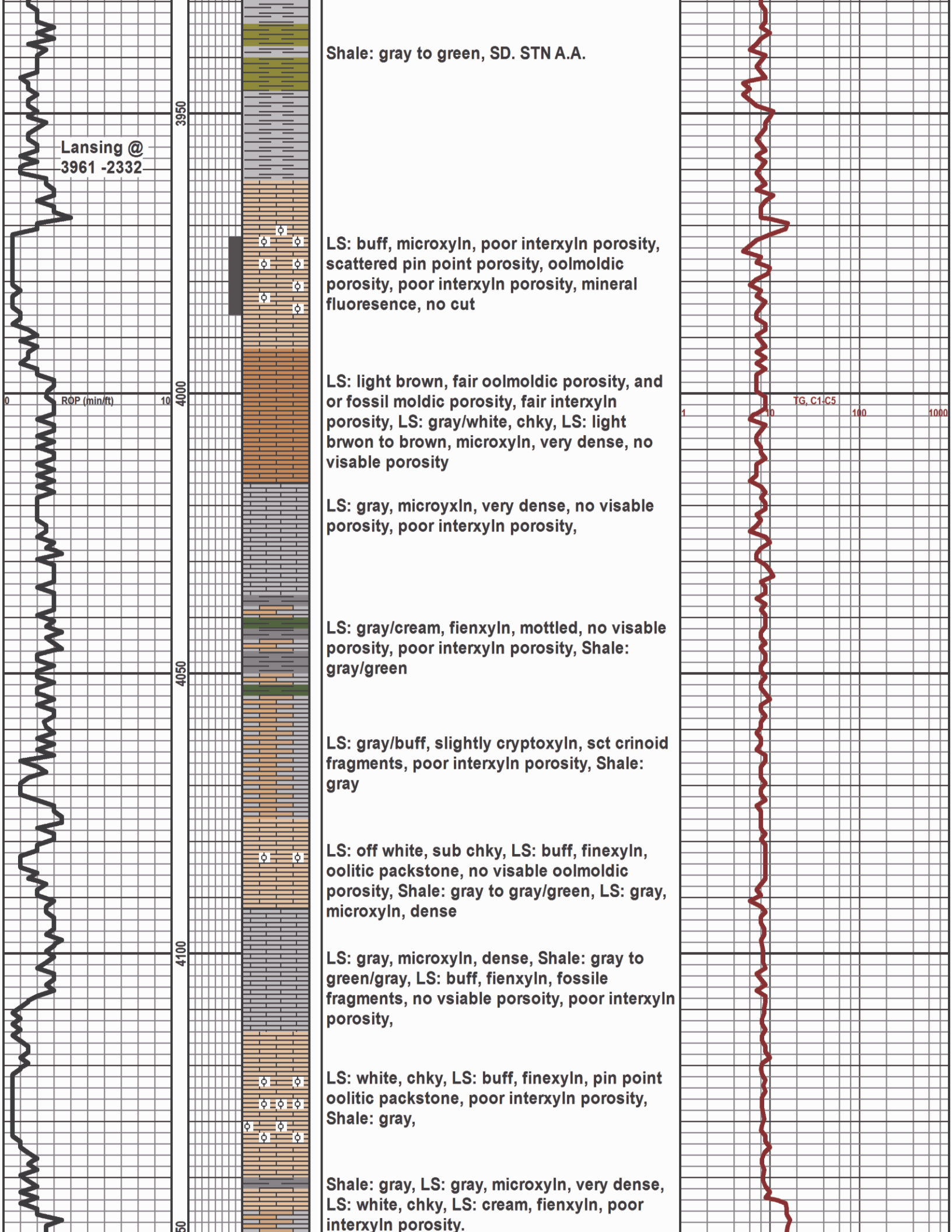
Core	Inter	Gray shale	Brown shale	Rounded
Dst	Moldic	Sandy lmst	Brown dol	Subrnd
Dst	Organic	Shale	Brown cream	Subang
	Pinpoint	Slt stn	D. green lmst	Angular
	Vuggy	Shaly slst	Light cream lmst	
<b>EVENTS</b>		Sity shale	Gray cream lmst	<b>OIL SHOWS</b>
Rft	<b>LITHOLOGY</b>	Blank	Green dol	Even
Sidewall	Anhy	Gray lmst	Gray dol	Spotted
Cfs	Cht	Cream lmst		Ques
Conn	Congl	Red shale	<b>SORTING</b>	Dead
	Shale	Blue-green siltstn	W Well	Gas show
<b>POROSITY TYPE</b>	Shgy	D. green shale	M Moderate	
Earthy	Ss	Green shale	P Poor	
Fenest				

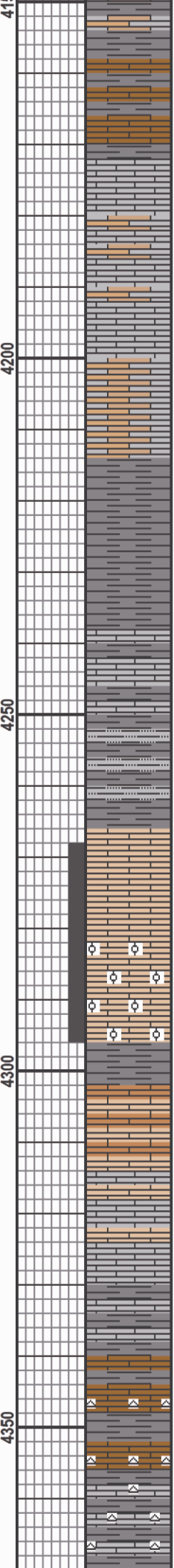
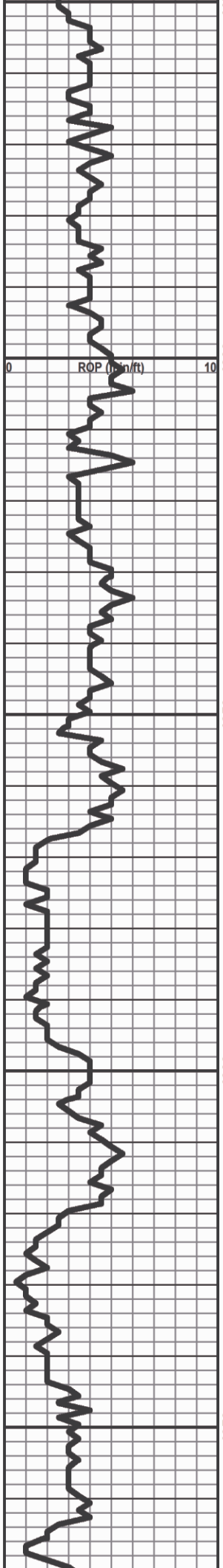
<b>ROCK TYPES</b>			
Anhy	Carb shale	Silty shale	D. green shale
Cht	Gray shale	Blank	Green shale
Congl	Sandy lmst	Gray lmst	Brown lmst
Shale	Shale	Cream lmst	Brown shale
Shgy	Slt stn	Red shale	Brown dol
Ss	Shaly slst	Blue-green siltstn	Brown cream
			D. green lmst
			Light cream lmst
			Gray cream lmst
			Green dol
			Gray dol











LS: gray/brown, poor interxyln porosity, finexyln, poor interxyln porosity, mottled, Shale: gray

LS: gray to dark gray, dark gray/brown in part, microxyln, dense, Shale: gray, LS: brown, microxyln, dense

increase in dark gray shale, LS: dark gray, very dense, no visable porosity, LS: gray/brown to dark brown, microxyln, very dense.

Shale: dark gray, lmy, LS: dark gray, silty, poor interxyln porosity

LS: dark gray, microxyln, very dense, poor interxyln porosity, Shale: dark gray

Shale: dark gray, dense, silty

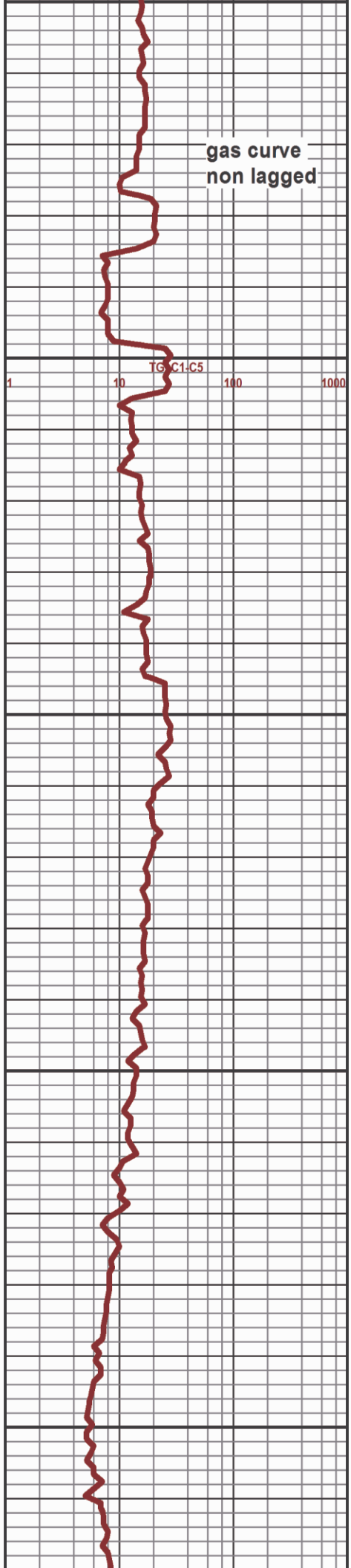
LS: cream to buff, finexyln, poor interxyln porosity, chky in part

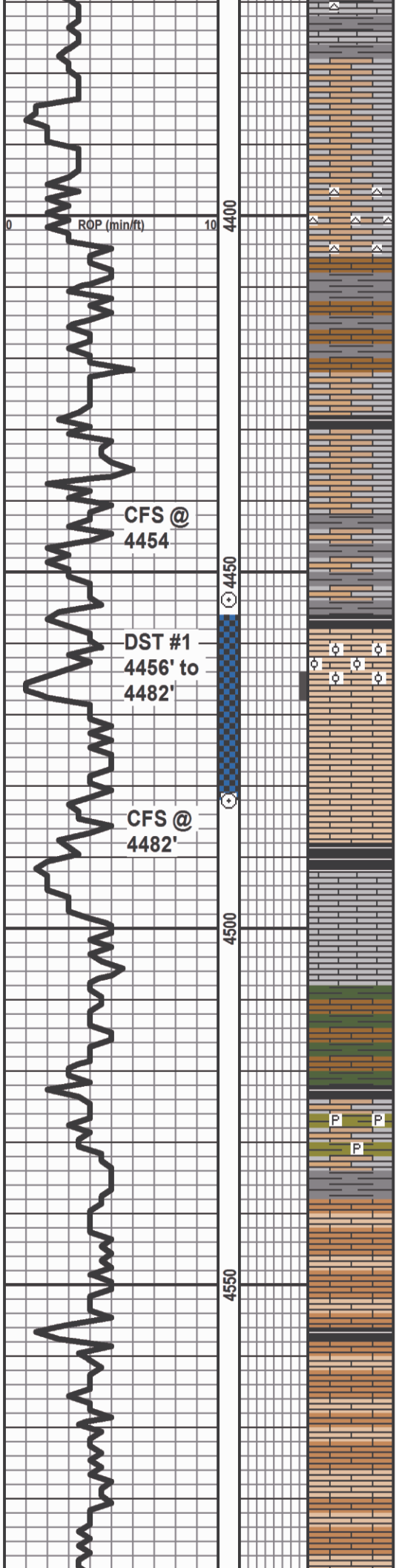
LS: cream to buff, finxyln to medium xyln sct fair oolmoldic porosity, no show, fair interxyln porosity, cryptoxyln in part no fluorescence,

LS: light gray to blond, microxyln mudstone, no visable porosity. LS: buff, slight visable oolmoldic porosity, fair to good interxyln porosity, no show, dull mineral fluorescence.

Shale: gray/black, fossiliferous, LS: dove gray, microxyln, poor interxyln porosity, sct slight visable porosity, poor interxyln porosity, LS: cream to buff, finexyln to microxyln, chky in part, Chert: translucent

LS: cream to buff to gray/buff, microxyln, chky, friable in part, Shale: dark gray, Chert: translucent.





LS: gray/buff, microxyn, very dense, LS: gray/brown, microxyn, very dense, lithographic

LS: buff to gray/brown, microxyn, very dense, Chert: dark gray, sharp.

LS: brown, microxyn very dense, no visible porosity, LS: brown/gray, microxyn, dense, Shale: dark gray

no odor no fluorescence, LS: gray/dark brown, lithographic, dense, Shale: black, LS: cream/gray in part

4454 30 min. cir. sample: no odor, LS: cream to cream/gray, microxyn, no visible porosity, poor interxyn porosity, no fluorescence, Shale: black to dark gray, Chert: procelain white, sharp

LS: cream, finexyn, friable, fair interxyn porosity, slight stain, bright fluorescence, slight show of free oil under black light, oolitic packstone, poor interxyn porosity, poor cut, visible pin point oolmoldic porosity, slight stain.

LS: dark gray, microxyn, very dense, no visible porosity, Shale: gray, to dark gray, friable

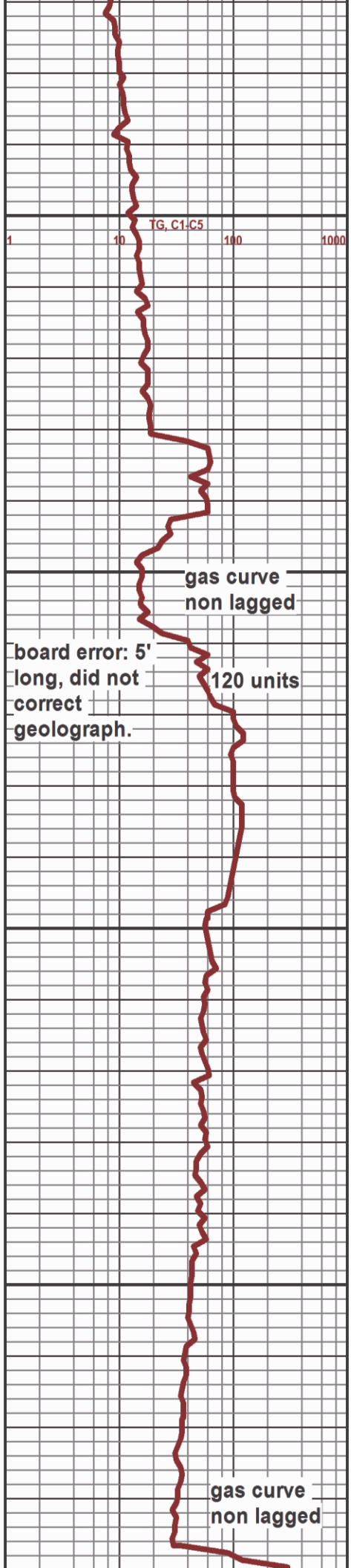
Shale: dark green and gray, LS: dark brown, microxyn, very dense, LS: cream, finexyn, poor interxyn porosity.

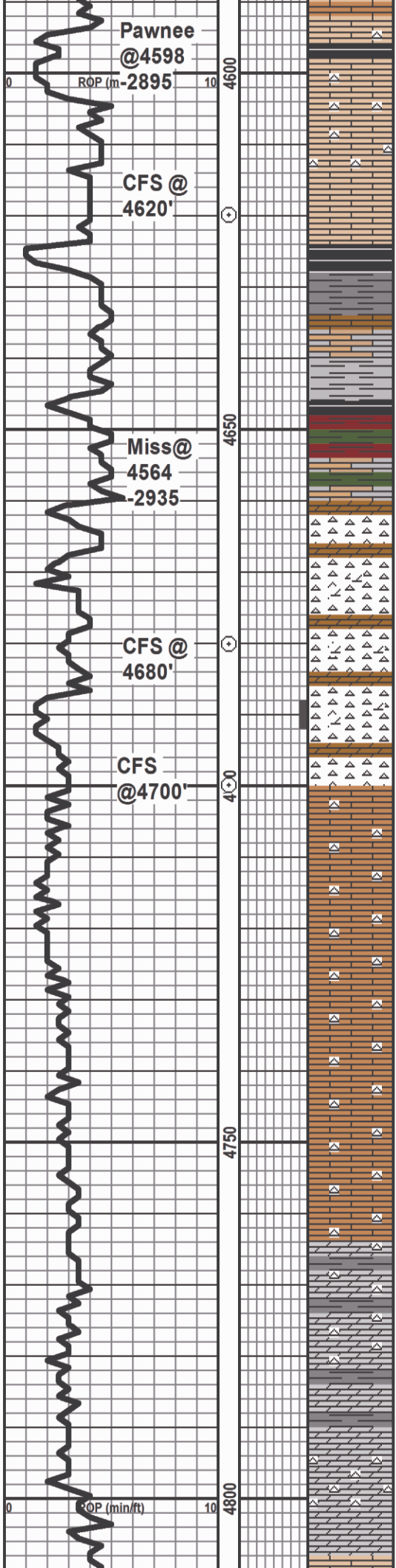
Shale: light green, pyritic, LS: brown/gray, microxyn mudstone, very dense, LS: buff, microxyn, very dense, Shale: dark gray,

LS: buff, microxyn, very dense, no visible porosity, Shale: gray, Shale: light gray/green with fossile fragments, LS: buff/brown, fossiliferous packstone in part microxyn, no visible porosity

LS: cream/buff, microxyn, very dense, no visible porosity, lithographic, LS: light tan, microxyn, very dense, oolitic packstone.

LS: buff/cream, microxyn, very dense, mudstone, poor interxyn porosity, friable in part, dull mineral fluorescence, one piece





bright fluorescence

possible slight odor, LS: buff, micoryln, lithographic, slight visible porosity in part random one piece with a rainbow show, minor fluorescence, Chert: bright fluorescence, sharp, blocky, LS: gray/brown, micoryln, very dense, lithographic, no visible porosity.

flood of black shale, Chert: blocky, foss, edge stain, questionable stain no fluorescence, LS: light brown, microxyn, dense.

Shale: dark gray, LS: brown to gray/brown, microxyn, dense, Shale: dirty gray, crynoid fragments, no fluorescence, no odor. Shale: green to red, LS: brown, micoryln, dense, mostly shale,

no odor, Chert: white, good fluorescence, LS; waxey green, microxyn, very dense, Dolomite: light brown, fine grain, Shale: dark gray. Slight odor from sample, Chert: fresh, semi clear, opaque, light brown stain, fair cut, fair pin point fluorescence, slight visible porosity, slightly dolomitic

4680 30 min: slight odor, Chert: light green, cherty, fine granular, poor interxyn porosity, scattered dark stain, slightly dolomitic, slightly tripolitic, fair pinpoint fluorescence.

4700 30 min: slight odor, Chert: fresh, semi clear, fair brown stain, poor fluorescence, slight visible tripolitic porosity, one piece of excellent porosity with brown stain, fair show of free oil when chushed,

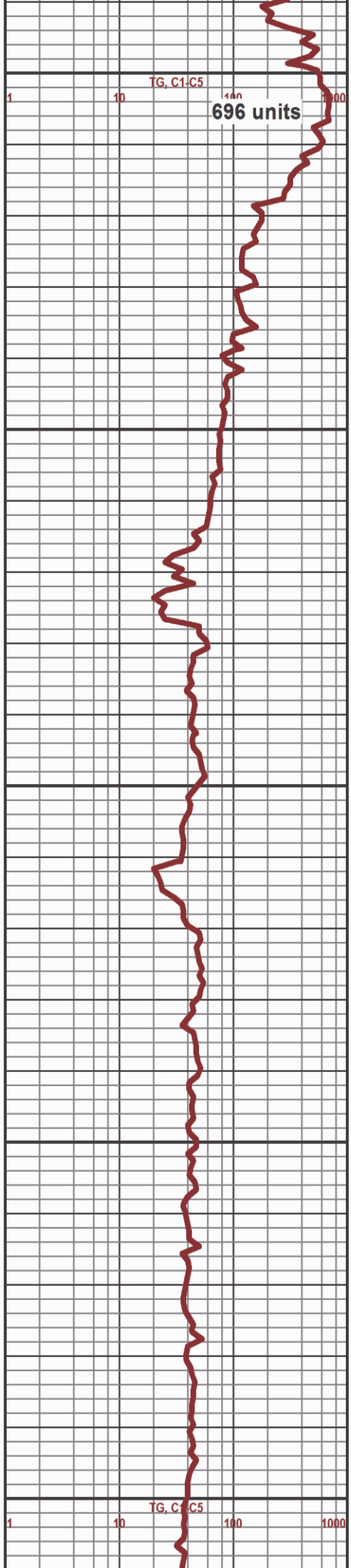
4700 60 min: Chert: fresh, white, light brown, dolomitic, tripolitic, slight stain, poor fluorescence, no cut, show of free oil with acid, scattered chert

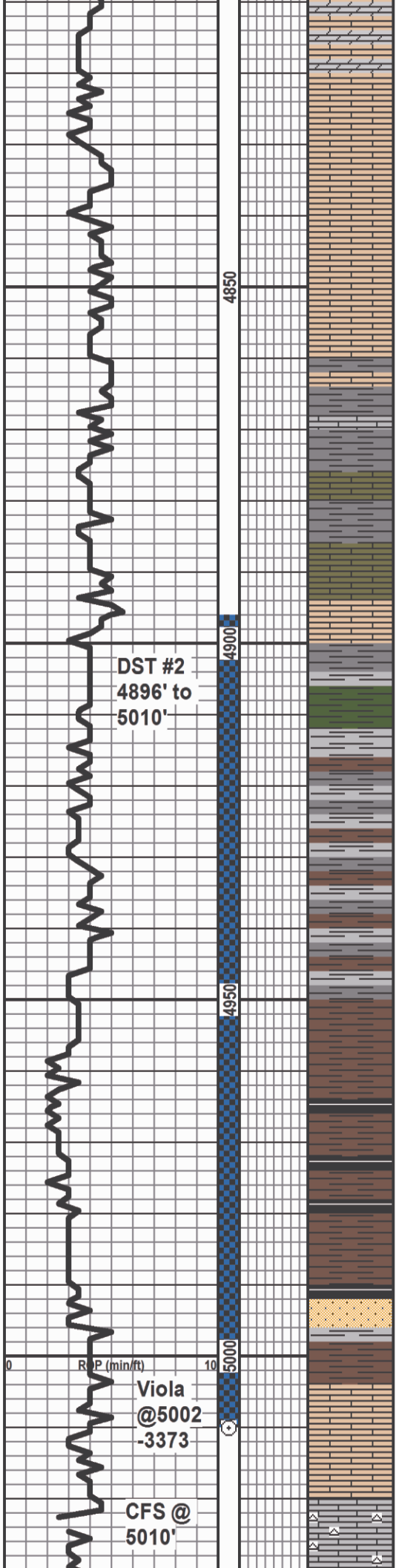
Dolomitic limestone: gray/brown, cherty, no fluorescence, dense, finexyn, poor interxyn porosity.

LS: dirty gray, dolomitic, finexyn, poor interxyn porosity, Shale: dark gray

Dolomite: dirty gray, silty, cherty, poor interxyn porosity, Shale: dark gray

Dolomite: dirty gray, gritty, poor interxyn porosity, dense, Cherty: dove gray, fossiliferous, sharp, semi trans, LS: buff, coarsexyn. poor interxyn porosity.





LS: cream, coarsexyln, fossiliferous, poor interxyln porosity, chky in part, no fluorescence. flood of white chky LS, Shale: light gray, calcareous

LS: cream, microxyln, dense, LS: light green, microxyln, waxey, poor interxyln porosity, LS: light brown, microxyln, very dense, no visable porosity.

LS: cream, microxyln, dense, chky in part, poor interxyln porosity, Shale: gray, LS: gray/brown, microxyln, dense.

LS: dark jade, finexyln, dense, no visible porosity,

LS: light buff, microxyln very dense, no visible porosity, poor interxyln porosity, Shale: gray,

Shale: dark green, blocky, dense

flood of dense, gray/brown, laminar Shale

Shale: gray/earthy brown,

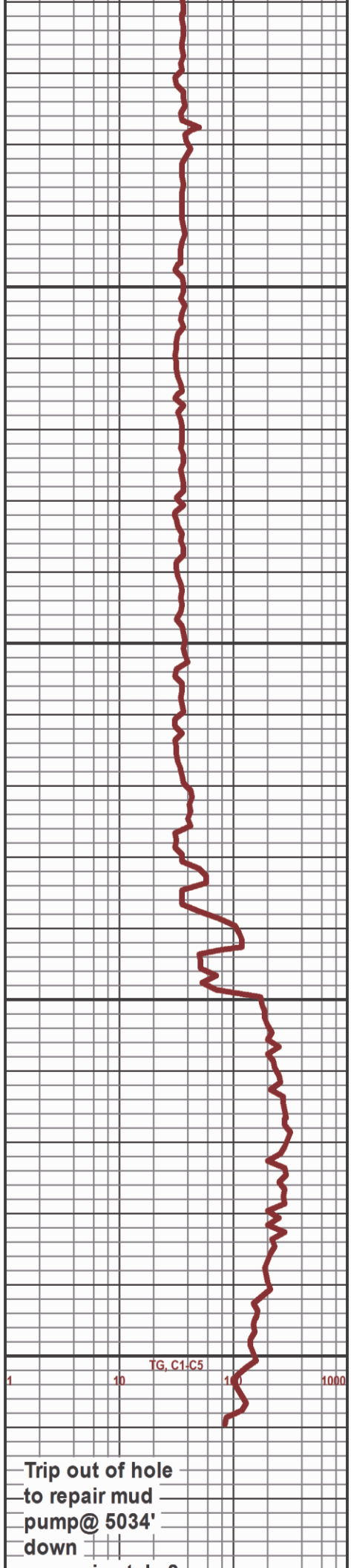
Shale: dark gray to brown, dolomitic

Shale: chocolate brown, dense

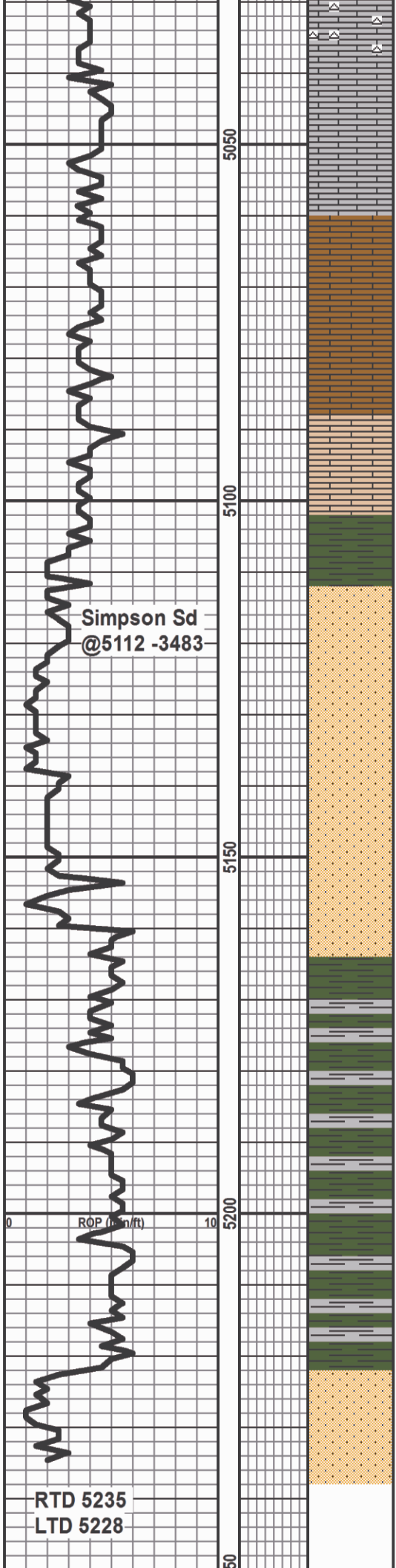
Shale: brown/black, very dense with fluoresence spores

SD.STN: fine grain, fair sorting, poor intergranular porosity, bright pin point fluoresence, slight stain, slight odor when chrushed, poor cut, small amount of shale in sand cluster, sct heavy brown stain.,

LS: cream, coarsexyln, poor interxyln porosity, no show, sample mostly shale, no show.



Trip out of hole  
to repair mud  
pump @ 5034'  
down



LS: gray/brown, microxyln, cherty, no visible porosity, poor interxyln porosity, scattered slight fluorescence in chert.

LS: brown, microxyln, cherty, finexyln, poor interxyln porosity, Chert: brown, sharp, vitreous, sct semi trans in part.

LS: off white, coarsexyln, friable, no show, mottled in part, no show,

5114 30 min: SD.STN: clear grained, fine grain, poorly sorted, poor intergranular porosity, no show. Shale: green waxey

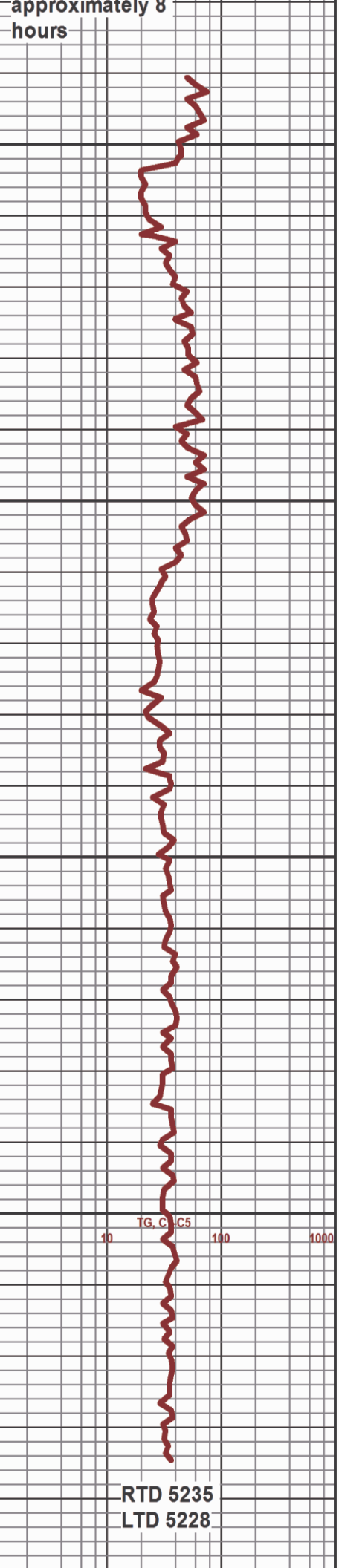
5114 60min: SD.STN. fine grain, poorly sorted, sub rounded, friable, no show, shly in part,

SD.Stn.: brown to white, , fine grain, poorly sorted, sct over growths, small amount of gray shale, no show, no odor, Shale: green, waxey,

Shale: green, waxey, gray/green in part

Shale: green to gray/green

SD.STN.: fine to medium grained, clear grained, poor intergranular porosity, no show no odor.



approximately 8 hours

TG, C, CS

RTD 5235  
LTD 5228

RTD 5235  
LTD 5228







PAGE	CONF NO	INVOICE DATE
1 of 1	1000719	09/22/2011
INVOICE NUMBER		
1718 - 90705481		

Pratt (620) 672-1201  
 B CHIEFTAIN OIL COMPANY  
 I PO Box: 124  
 L KIOWA  
 L KS US 67070  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Jake 2  
 O LOCATION  
 B COUNTY Barber  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40372411	20920		Net - 30 days	10/22/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/20/2011 to 09/20/2011</i>				
0040372411				
171805079A Cement-New Well Casing/Pi 09/20/2011				
8 5/8" Surface				
60/40 POZ	300.00	EA	12.00	2,843.74 T
Cello-flake	75.00	EA	3.70	219.20 T
Calcium Chloride	774.00	EA	1.05	641.97 T
Wooden Cement Plug 8 5/8"	1.00	EA	160.00	126.39
Unit Mileage Charge-Pickups, Vans & Cars	45.00	HR	4.25	151.07
Heavy Equipment Mileage	90.00	MI	7.00	497.65
Proppant and Bulk Delivery Charges	581.00	MI	1.60	734.31
Depth Charge 0-500'	1.00	HR	1,000.00	789.93
Blending & Mixing Service Charge	300.00	MI	1.40	331.77
Plug Container Utilization Charge	1.00	EA	250.00	197.48
Supervisor	1.00	HR	175.00	138.24

**ENTERED**  
 SEP 27 2011  
 912/BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,671.75
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	270.46
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	6,942.21
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**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 05079 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB	9-20-11	DISTRICT	Pratt KS	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	Ch. of Town Oil Co.			LEASE	SAKE		2 WELL NO.		
ADDRESS				COUNTY	BARBER		STATE KS		
CITY				CITY				STATE	
AUTHORIZED BY				SERVICE CREW	Sullivan, M. B., J. Y., J.				
EQUIPMENT#				HRS		JOB TYPE: CW 8 5/8 Service			
53708-20920	25					TRUCK CALLED	9-19-11	DATE	AM PM TIME
19831-19862	7					ARRIVED AT JOB	9-20-11		AM PM TIME
37900						START OPERATION	9-20-11		AM PM TIME
						FINISH OPERATION			AM PM TIME
						RELEASED			AM PM TIME
						MILES FROM STATION TO WELL	45		

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 pot cement	SK	300		3,600.00
CC 102	Cellulose	lb	75		277.50
CC 109	Calcium chloride	lb	774		812.70
CF 153	wooden plug 8 5/8	EA	1		160.00
E 100	pickup mileage	mi	45		191.25
E 101	Heavy Equip mileage	mi	90		630.00
F 113	Bulk Delivery	TN	581		628.90
FE 200	Depth Charge 0-500	SA	1		1,000.00
FE 247	Blending - Mixing	SK	300		420.00
FE 304	plus Constantine (Mottell) "1	SA	1		250.00
SC 3	Solvent Solvent	SA	1		175.00

SUB TOTAL

CHEMICAL / ACID DATA:


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

*Thank You*

TOTAL

6,671.95

SERVICE REPRESENTATIVE Robt. Sullivan

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

FIELD SERVICE ORDER NO. \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>Chintan Oil Co.</i>	Lease No.	Date <i>9-20-11</i>
Lease <i>TAKE</i>	Well # <i>2</i>	
Field Order # <i>5077</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>
		Depth <i>327'</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	County <i>BARBER</i>
		State <i>KS</i>
		Legal Description <i>18-18-10</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth <i>327'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>70</i>	Volume	From	To	Pad	Min		10 Min.	
Max. Press <i>300</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>327'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SECH</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 33708 20970 19821 19862</i>		
Driver Names <i>Sullivan, Melson, Young</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:00</i>	<i>1m</i>				<i>on loc softy matry.</i>
					<i>Run 8 5/8 8 5/8 24 CSU</i>
<i>1:50</i>					<i>CASING ON BOTTOM</i>
<i>2:00</i>					<i>Hook Dip circ.</i>
<i>2:05</i>	<i>200</i>		<i>3</i>	<i>4</i>	<i>St Sprider</i>
			<i>64</i>	<i>5</i>	<i>mix cont 200sk 60/40 pot cont</i>
					<i>cont mixed, shut down</i>
					<i>Release Plug</i>
				<i>4</i>	<i>St Disp</i>
<i>2:30</i>	<i>200</i>		<i>20</i>		<i>plug Down</i>
					<i>circ 10. BBL cont to pit</i>
					<i>SOB complete</i>
					<i>Thank you</i>



PAGE	CUST NO	INVOICE DATE
1 of 1	1000719	10/05/2011
INVOICE NUMBER		
1718 - 90718770		

Pratt (620) 672-1201  
 B CHIEFTAIN OIL COMPANY  
 I PO Box: 124  
 L KIOWA  
 L KS US 67070  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Jake #2  
 O 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
40378847	20920		Net - 30 days	11/04/2011
<i>For Service Dates: 10/01/2011 to 10/01/2011</i>				
0040378847				
171804461A Cement-New Well Casing/Pi 10/01/2011 5 1/2" Longstring				
AA2 Cement		275.00	EA	13.43
De-foamer(Powder)		52.00	EA	3.16
Salt(Fine)		1,364.00	EA	0.39
Gas-Blok		259.00	EA	4.07
FLA-322		208.00	EA	5.22
Gilsonite		1,375.00	EA	0.53
CS-1L KCL Substiture		5.00	EA	27.65
Mud Flush		500.00	EA	0.68
Super Flush II		500.00	EA	1.21
Latch Down Plug & Baffle		1.00	EA	315.99
Auto Fill Float Shoe 5 1/2" (Blue)		1.00	EA	284.39
turbolizer 5 1/2" (Blue)		7.00	EA	86.90
5 1/2" Basket (Blue)		2.00	EA	229.10
Heavy Equipment Mileage		90.00	MI	5.53
Proppant and Bulk Deliver Charge		583.00	MI	1.26
Blending & Mixing Service Charge		275.00	MI	1.11
Unit Mileage Charge-Pickups, Vans & Cars		45.00	HR	3.36
Plug Container Utilization Charge		1.00	EA	197.50
Depth Charge; 5001-6000'		1.00	HR	2,275.15
Service Supervisor		1.00	HR	138.25

**ENTERED**  
 OCT 09 2011  
 9/2/BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	14,459.96
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	619.94
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	15,079.90
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**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 04461 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>10-20-11</u> DISTRICT <u>KANSAS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>Chic Ftain Co. INC</u>		LEASE <u>Take</u> # <u>2</u> WELL NO.								
ADDRESS		COUNTY <u>Barber 18-33-10</u> STATE <u>KANSAS</u>								
CITY STATE		SERVICE CREW <u>Allen, Joe TJ, Dale</u>								
AUTHORIZED BY		JOB TYPE: <u>5 1/2" L.S.</u> <u>CNW</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>28443 P.U.</u>	<u>2</u>						<u>9-30-11</u>			<u>1200</u>
<u>33708-20920</u>	<u>2</u>					ARRIVED AT JOB	<u>9-30-11</u>	AM	PM	<u>445</u>
<u>19960-19918</u>	<u>2</u>					START OPERATION	<u>9-30-11</u>	AM	PM	<u>1100</u>
						FINISH OPERATION	<u>10-1-11</u>	AM	PM	<u>100</u>
						RELEASED	<u>10-1-11</u>	AM	PM	<u>145</u>
						MILES FROM STATION TO WELL	<u>4.5 miles</u>			

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA 2 cement	SK	27.5		\$ 4875.00
CC105	Defumer (Powder)	lb	62		\$ 208.20
CC111	Salt (Fine)	lb	1364	682	\$ 932.00
CC116	Gas Blok	lb	259		\$ 1333.85
CC129	FIA-322	lb	208	1360	\$ 2828.80
CC201	Gilsonite	lb	1325		\$ 921.25
CF607	Latch down Plug & Baffle 5/2	EA	1		\$ 400.00
CF1251	Auto Fillup Float shoe 5/2 Blue	EA	1		\$ 360.00
CF1651	Turbolizer 5/2 Blue	EA	2		\$ 220.00
CF1901	5/2 Basket	EA	2		\$ 580.00
C704	CS-14 KCL Sub	gal	5		\$ 175.00
CC161	Mud Flush	gal	500		\$ 430.00
CC155	Super Flush Th	gal	500		\$ 265.00

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

~~1718-04402~~ A

DATE TICKET NO. 4461A

DATE OF JOB 9-20-11	DISTRICT 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 Chic Fran Co. INC		LEASE Jake	H 2		WELL NO.		
ADDRESS		COUNTY Barber 18-33-10 STATE KANSAS					
CITY	STATE	SERVICE CREW Allen, Jop, Dale, TJ					
AUTHORIZED BY		JOB TYPE: 5/2" L.S. CNW					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 9-30-11 DATE AM PM TIME 1200	
28443 P.U.	2					ARRIVED AT JOB	9-30-11 AM PM 445
33708-20920	2					START OPERATION	9-30-11 AM PM 1100
19960-19918	2					FINISH OPERATION	9-30-11 AM PM 100
						RELEASED	10-1-11 AM PM 145
						MILES FROM STATION TO WELL	4.5 miles

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
E100	Unit Mileage Charge Pickup	mi	45		\$ 191.25
E101	Heavy Equip mileage	m	90		\$ 630.00
F113	Bulk Delivery Charge	tm	583		\$ 932.40
CF204	Depth Charge 5001-6000'	4-hr	1		\$ 2880.00
CF240	Blending mixing service chg	S/275	275		\$ 385.00
CF504	Plus container Utilization chg	Job	1		\$ 250.00
5003	Service Supervisor first 8hrs	CA	1		\$ 175.00

CHEMICAL / ACID DATA:			

SUB TOTAL BLS \$14,459.96

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

SERVICE REPRESENTATIVE *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer Chic Ftain Oil Co.	Lease No.	Date 10-1-11
Lease JAKE	Well # #2	
Field Order # #04461A	Station Pratt KS	Casing 5 1/2"
		Depth 5228'
Type Job 5 1/2" L.S.	CNW	County Barber
		State KS
	Formation TD-5235 QTO	Legal Description 18-33-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size	Shots/Ft	12 BBL	Acid mud Flush		RATE	PRESS	ISIP
Depth 5228	Depth	From	To 12 BBL	Pre Pad Super flush	Max			5 Min.
Volume 124	Volume	From	To 245 STS	Pad	Min			10 Min.
Max Press # 1500	Max Press	From	To 30 STS	Frac AA2 Plv	Avg	R.I.I.		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 5206.5	Packer Depth	From	To	Flush Disp 2% KCL	Gas Volume			Total Load

Customer Representative Ron Moler	Station Manager Scotty	Treater Allen
--------------------------------------	---------------------------	------------------

Service Units	28443	33708	20920	19960	19918				
Driver Names	Allen Joe	Melson Dale	Phye TJ	Gibson					

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
4:45 PM	9-30-11				on loc. Discuss Safety Setup, Plan Job
					Rig Laying down D.P.
					Lay down Kelly, Rig up to Run 5 1/2" csg
7:55					Start 5 1/2" csg. 15.5" Shoe Jt. 2151'
					w/ Float Shoe, 4 L.D. Baffle in collar.
					Cent-4-6-12-14-15-16-18, Basket #2-10
9:15					circ hole w/ 62 Jts for 30 min.
9:50					Resume Running csg.
11:00					TAG TP @ 5225, Pickup + cir @ 5228
12:00	200#	10-1-11	12	5	Pump 12 BBLs mud Flush
			5	5	Pump 5 BBLs H <sub>2</sub> O
			12	5	Pump 12 BBLs super flush II
			5	5	Pump 5 BBLs H <sub>2</sub> O
					mix + Pump AA2 cmt @ 15#
			62		Finish mix, washout Pump + Line
12:30	200#			6	Drop L.D. Plug, Start Disp 2% KCL
	1000#			6	caught L.D. PSI. 86 BBLs out
12:45	1700#		124	4	Plug Down.
	0#				Release PSI.
					Plug Rat Hole w/ 30 STS AA2
					washout + Rackup Equip.
1:45					Job complete, Allen, Joe, TJ, Dale



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Chieftain Oil Co Inc.  
605 S.6th, P.O.Box 124  
Kiowa, KS 67070  
ATTN: David Barker

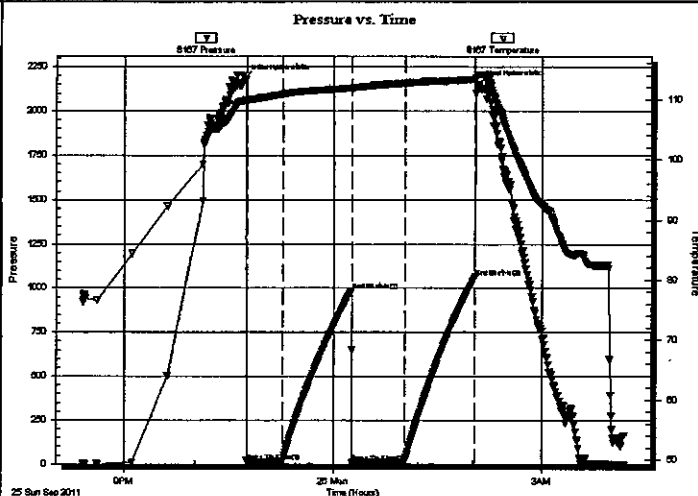
**Jake #2**  
**18-33s-10w Barber,KS**  
Job Ticket: 43973      DST#: 1  
Test Start: 2011.09.25 @ 20:24:37

### GENERAL INFORMATION:

Formation: **Hertha**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 22:45:07  
Time Test Ended: 04:10:22  
Interval: **4456.00 ft (KB) To 4482.00 ft (KB) (TVD)**  
Total Depth: 4482.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1629.00 ft (KB)  
1621.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8167**      Inside  
Press@RunDepth: 15.56 psig @ 4457.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.09.25      End Date: 2011.09.26      Last Calib.: 2011.09.26  
Start Time: 20:24:42      End Time: 04:10:21      Time On Btm: 2011.09.25 @ 22:42:52  
Time Off Btm: 2011.09.26 @ 02:04:37

TEST COMMENT: IF: Strong blow . B.O.B. in 4 mins.  
IS: No blow .  
FF: Strong blow . B.O.B. in 2 secs.  
FS: No blow .



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.55	109.82	Initial Hydro-static
3	14.95	109.58	Open To Flow (1)
34	17.68	110.86	Shut-In(1)
93	987.16	111.90	End Shut-In(1)
93	11.22	111.68	Open To Flow (2)
138	15.56	112.67	Shut-In(2)
200	1065.06	113.37	End Shut-In(2)
202	2154.03	114.16	Final Hydro-static

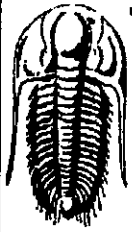
### Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w a trace of oil	0.10
0.00	2040 ft. of GIP	0.00

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Chieftain Oil Co Inc.  
605 S.6th, P.O.Box 124  
Kiowa, KS 67070  
ATTN: David Barker

**Jake #2**  
**18-33s-10w Barber,KS**  
Job Ticket: 43973      **DST#: 1**  
Test Start: 2011.09.25 @ 20:24:37

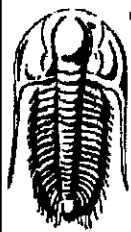
**Tool Information**

Drill Pipe:	Length: 4329.00 ft	Diameter: 3.80 inches	Volume: 60.72 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4456.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4429.00	
Shut in tool	5.00			4434.00	
HMV	5.00			4439.00	
Jars	5.00			4444.00	
Safety Joint	3.00			4447.00	
Packer	4.00			4451.00	28.00 Bottom Of Top Packer
Packer	5.00			4456.00	
Stubb	1.00			4457.00	
Recorder	0.00	8167	Inside	4457.00	
Recorder	0.00	8370	Outside	4457.00	
Perforations	20.00			4477.00	
Bullnose	5.00			4482.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co Inc.  
605 S.6th, P.O.Box 124  
Kiowa, KS 67070  
ATTN: David Barker

**Jake #2**  
**18-33s-10w Barber,KS**  
Job Ticket: 43973      **DST#: 1**  
Test Start: 2011.09.25 @ 20:24:37

## 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:	3500 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

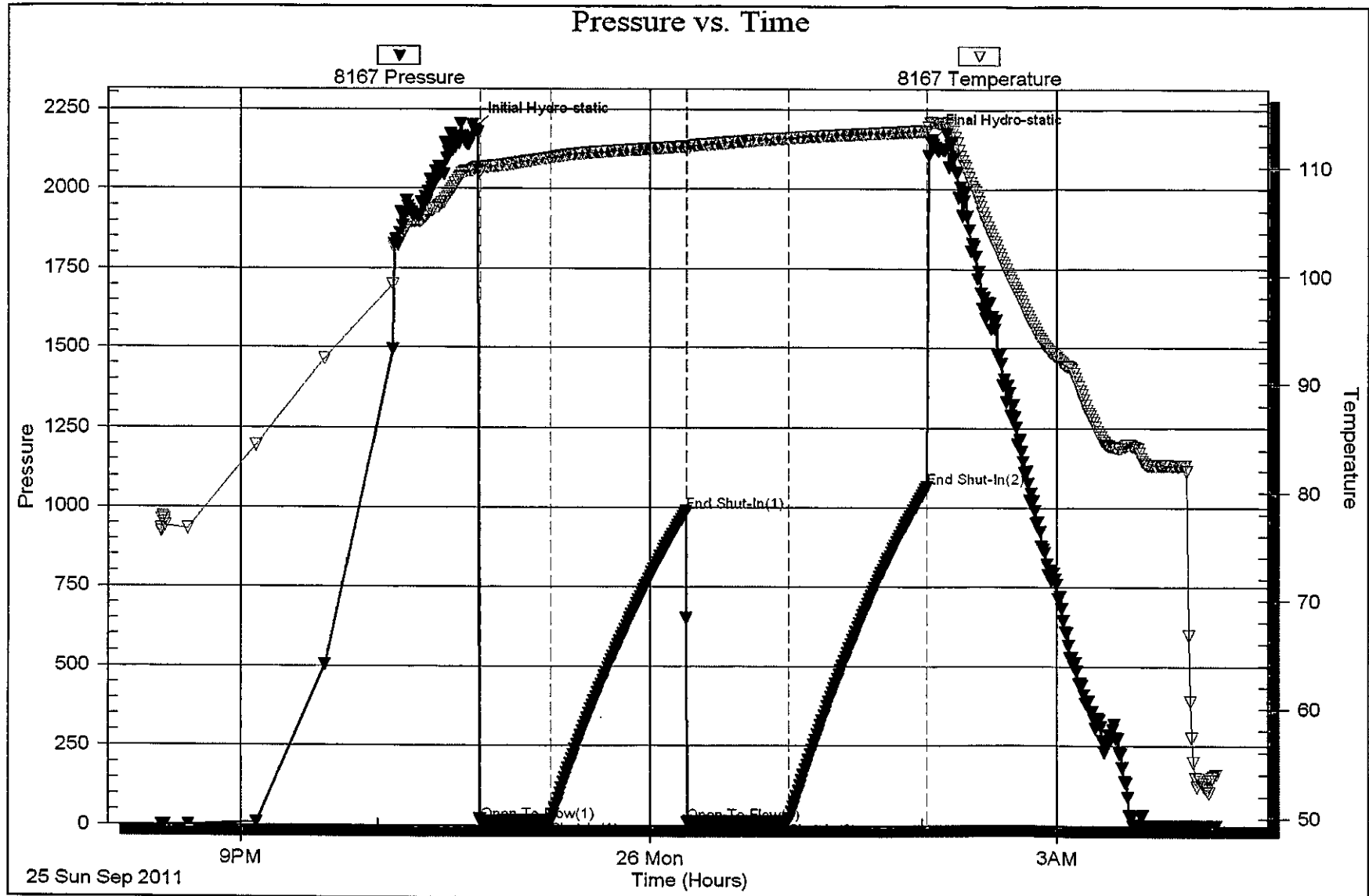
Length ft	Description	Volume bbl
20.00	Mud w a trace of oil	0.098
0.00	2040 ft.of GIP	0.000

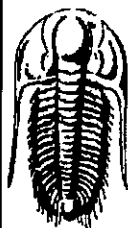
Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name: Caraway      Laboratory Location:

Recovery Comments: P





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Chieftain Oil Co Inc.  
605 S.6th, P.O.Box 124  
Kiowa, KS 67070  
ATTN: David Barker

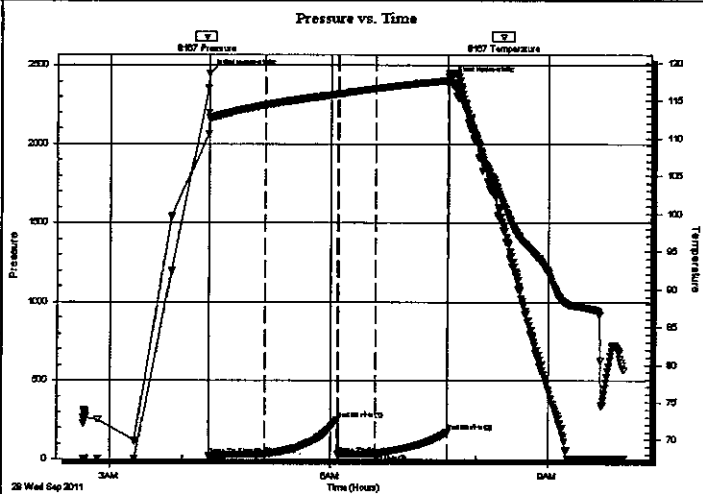
**Jake #2**  
**18-33s-10w Barber,KS**  
Job Ticket: 43974      **DST#: 2**  
Test Start: 2011.09.28 @ 02:38:06

### GENERAL INFORMATION:

Formation: **Misener**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 04:21:06  
Time Test Ended: 10:02:06  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Gary Pavoteaux  
Unit No: 56  
Interval: **4896.00 ft (KB) To 5010.00 ft (KB) (TVD)**  
Reference Elevations: 1629.00 ft (KB)  
Total Depth: 5010.00 ft (KB) (TVD)                      1621.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair                      KB to GR/CF: 8.00 ft

**Serial #: 8167**      **Inside**  
Press@RunDepth: 37.94 psig @ 4897.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.09.28      End Date: 2011.09.28      Last Calib.: 2011.09.28  
Start Time: 02:38:11      End Time: 10:02:05      Time On Btm: 2011.09.28 @ 04:20:51  
Time Off Btm: 2011.09.28 @ 07:38:21

TEST COMMENT: IF:Weak blow . 1/2 - 1 1/2".  
IS:No blow .  
FF:No blow .  
FS:No blow .



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2449.40	113.37	Initial Hydro-static
1	21.90	112.79	Open To Flow (1)
46	30.77	114.43	Shut-In(1)
105	254.84	115.93	End Shut-In(1)
106	30.84	115.90	Open To Flow (2)
136	37.94	116.64	Shut-In(2)
196	173.19	117.71	End Shut-In(2)
198	2403.68	118.74	Final Hydro-static

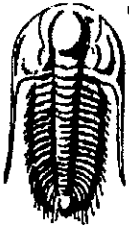
### Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling mud	0.12

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co Inc.  
605 S.6th, P.O.Box 124  
Kiowa, KS 67070  
ATTN: David Barker

**Jake #2**  
**18-33s-10w Barber,KS**  
Job Ticket: 43974      **DST#: 2**  
Test Start: 2011.09.28 @ 02:38:06

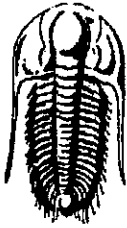
**Tool Information**

Drill Pipe:	Length: 4761.00 ft	Diameter: 3.80 inches	Volume: 66.78 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 67.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4896.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.00 ft			
Tool Length:	142.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4869.00	
Shut in tool	5.00			4874.00	
HMV	5.00			4879.00	
Jars	5.00			4884.00	
Safety Joint	3.00			4887.00	
Packer	4.00			4891.00	28.00      Bottom Of Top Packer
Packer	5.00			4896.00	
Stubb	1.00			4897.00	
Recorder	0.00	8167	Inside	4897.00	
Recorder	0.00	8370	Outside	4897.00	
Perforations	7.00			4904.00	
Blank Spacing	95.00			4999.00	
Perforations	6.00			5005.00	
Bullnose	5.00			5010.00	114.00      Bottom Packers & Anchor

**Total Tool Length: 142.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Chieftain Oil Co Inc.

**Jake #2**

605 S.6th, P.O.Box 124  
Kiowa, KS 67070

**18-33s-10w Barber,KS**

Job Ticket: 43974

**DST#: 2**

ATTN: David Barker

Test Start: 2011.09.28 @ 02:38:06

**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: 4400 ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 4400.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
25.00	Drilling mud	0.123

Total Length: 25.00ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

