



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1102784
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1102784

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

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

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

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

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

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

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

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

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

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

November 28, 2012

DEAN PATTISSON
Woolsey Operating Company, LLC
125 N MARKET STE 1000
WICHITA, KS 67202-1729

Re: ACO1
API 15-095-22262-00-00
KOSTNER GU B 2
SW/4 Sec.25-28S-06W
Kingman 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,
DEAN PATTISSON

ALLIED OIL & GAS SERVICES, LLC 053846

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge KS

Kostner GUB 2

DATE <u>08/15/2012</u>	SEC. <u>25</u>	TWP. <u>28s</u>	RANGE <u>6w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>6:45 PM</u>
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LEASE <u>Kostner</u>	WELL# <u>B-2</u>	LOCATION <u>Adams KS, East to Murdock Rd,</u>	COUNTY <u>Kingman</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)		<u>8 miles North, East into</u>		

CONTRACTOR Hardt Drlg OWNER Woolsey

TYPE OF JOB Production

HOLE SIZE <u>7 7/8"</u>	T.D. <u>4402</u>
CASINO SIZE <u>4 1/2"</u>	DEPTH <u>4017</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1600</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>37.92</u>
CEMENT LEFT IN CSG. <u>37.92</u>	
PERFS.	
DISPLACEMENT <u>64 BBLs w 2% KCL</u>	

CEMENT
AMOUNT ORDERED 75 ex 60:40:4% Gel,
75 ex Class H + 10% Gypseal + 10% salt +
6# Kalseal + 8% fl-160 + Flaseal

COMMON <u>Class H 75 ex @ 19.25</u>	<u>1443.75</u>
POZMIX <u>30 ex @ 8.50</u>	<u>255.00</u>
GEL <u>3 ex @ 21.25</u>	<u>63.75</u>
CHLORIDE	@
ASC	@
Common <u>Class A 45 ex @ 16.25</u>	<u>731.25</u>
Gypseal <u>14 ex @ 34.20</u>	<u>478.80</u>
Salt <u>8 ex @ 12.00</u>	<u>96.00</u>
Kalseal <u>450 lbs @ .95</u>	<u>427.50</u>
fl-160 <u>56 lbs @ 17.20</u>	<u>963.20</u>
Flaseal <u>78.75 lbs @ 2.70</u>	<u>212.62</u>

EQUIPMENT

PUMP TRUCK # <u>398</u>	CEMENTER <u>Sean Thigpen</u>
BULK TRUCK # <u>364</u>	HELPER <u>Scott Priddy / Wayne D</u>
BULK TRUCK #	DRIVER <u>Brett Gains</u>
BULK TRUCK #	DRIVER

HANDLING <u>186 cu ft @ 2.10</u>	<u>390.60</u>
MILEAGE <u>7.61 mi @ 35 mi x 2.25</u>	<u>171.22</u>
TOTAL <u>5533.49</u>	

269.37

REMARKS:
Plugged Hold

WELL FILE

Regulatory Correspondence
Drlg / Comp Workovers
Tests / Meters Operations

SERVICE

DEPTH OF JOB <u>4017</u>	
PUMP TRUCK CHARGE <u>2405.00</u>	
EXTRA FOOTAGE @	
MILEAGE <u>35 mi @ 7</u>	<u>245.00</u>
MANIFOLD @	<u>200</u>
LV <u>35 mi @ 4</u>	<u>140.00</u>

CHARGE TO: Woolsey

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2990.00

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

PLUG & FLOAT EQUIPMENT

<u>4 1/2"</u>	
AFH Float Shoe - 1 @	<u>349.00</u>
Latch down plug - 1 @	<u>550.00</u>
recip scratchers - 20 @ <u>76.00</u>	<u>1520.00</u>
Centralizers - 6 @ <u>80.00</u>	<u>480.00</u>

TOTAL 2699.00

SALES TAX (If Any) -0-

TOTAL CHARGES 11,222.49

DISCOUNT 20% 2244.50 IF PAID IN 30 DAYS
Net 8977.99

PRINTED NAME Donald Boyd

SIGNATURE Donald Boyd

AUG 30 2012



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.
 125 N. Market Ste. 1000
 Wichita, KS 67202-1729
 ATTN: Roger Fisher

25-28s-6w
Kostner "B" #2
 Job Ticket: 49534 **DST#: 1**
 Test Start: 2012.08.11 @ 08:52:02

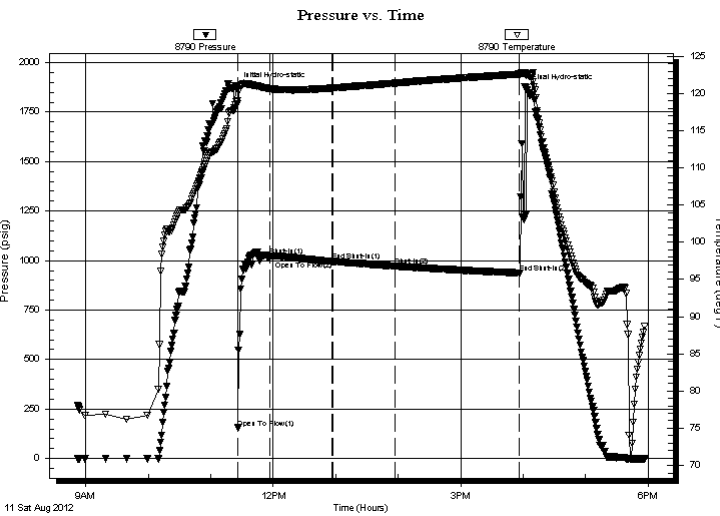
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:26:02
 Time Test Ended: 17:57:17
Interval: 3859.00 ft (KB) To 3875.00 ft (KB) (TVD)
 Total Depth: 3875.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 63
 Reference Elevations: 1428.00 ft (KB)
 1418.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790

Press @ Run Depth: 972.30 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.11 End Date: 2012.08.11 Last Calib.: 2012.08.11
 Start Time: 08:52:07 End Time: 17:57:17 Time On Btm: 2012.08.11 @ 11:24:32
 Time Off Btm: 2012.08.11 @ 16:01:47

TEST COMMENT: IF: Weak blow . 1 1/2"- Dead in 20mins.
 IS: No blow
 FF: No blow
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.16	118.93	Initial Hydro-static
2	154.47	118.68	Open To Flow (1)
32	1021.82	120.66	Shut-In(1)
92	996.33	120.74	End Shut-In(1)
93	996.38	120.74	Open To Flow (2)
153	972.30	121.40	Shut-In(2)
272	937.58	122.60	End Shut-In(2)
278	1870.93	122.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC.

25-28s-6w

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Kostner "B" #2

Job Ticket: 49534

DST#: 1

ATTN: Roger Fisher

Test Start: 2012.08.11 @ 08:52:02

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

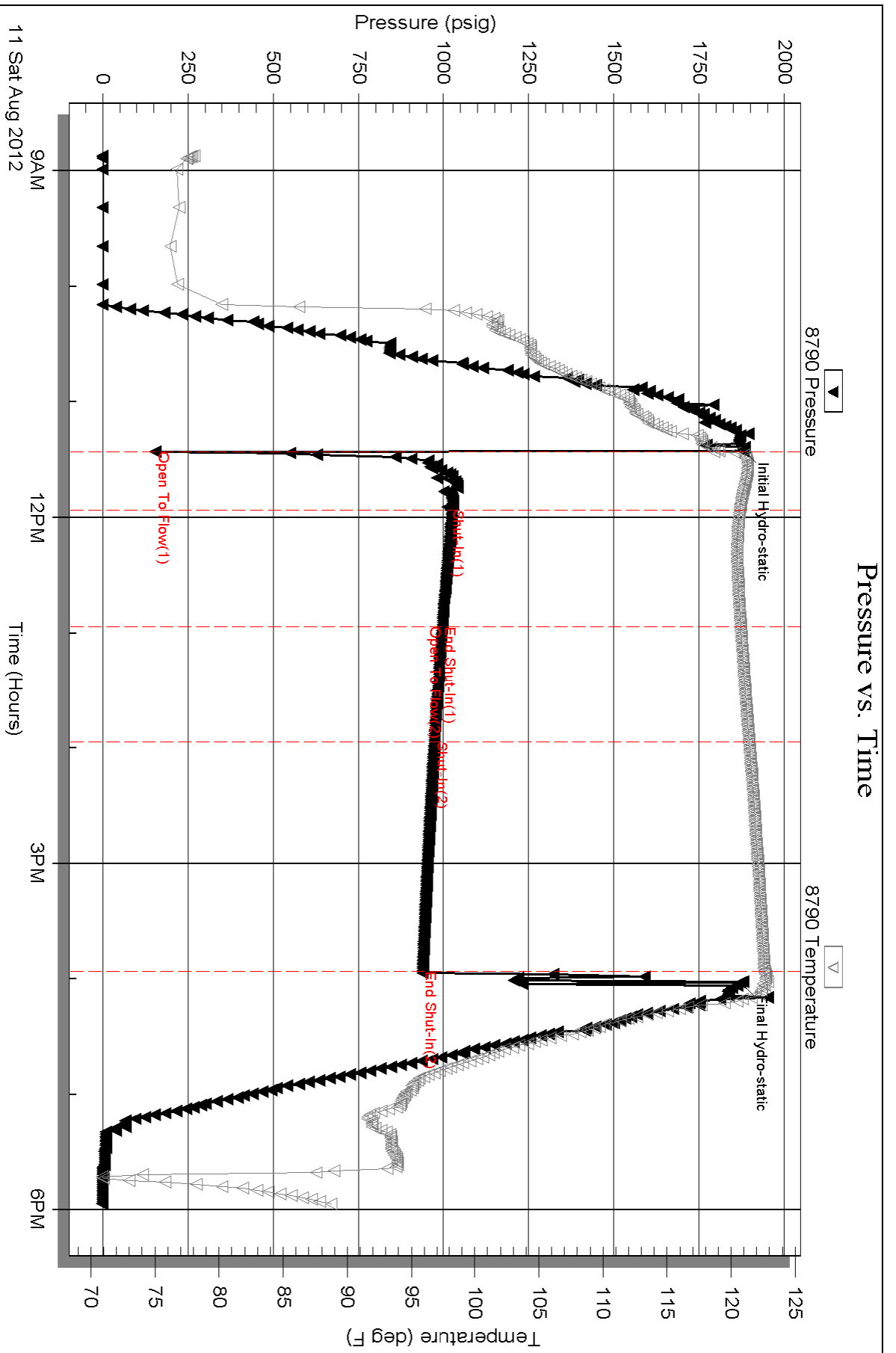
Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.
 125 N. Market Ste. 1000
 Wichita, KS 67202-1729
 ATTN: Roger Fisher

25-28s-6w
Kostner "B" #2
 Job Ticket: 49535 **DST#: 2**
 Test Start: 2012.08.12 @ 02:20:37

GENERAL INFORMATION:

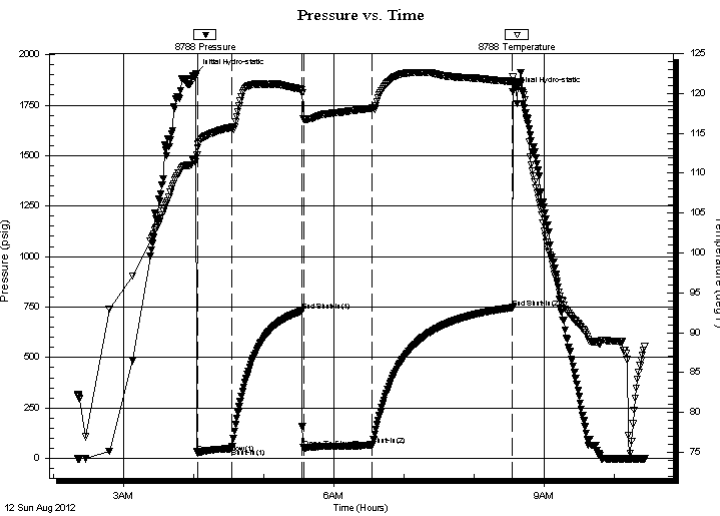
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:03:22
 Time Test Ended: 10:26:37
 Interval: **3860.00 ft (KB) To 3896.00 ft (KB) (TVD)**
 Total Depth: 3896.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 63
 Reference Elevations: 1428.00 ft (KB)
 1418.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8788

Inside

Press @ Run Depth: 67.71 psig @ 3861.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.12 End Date: 2012.08.12 Last Calib.: 2012.08.12
 Start Time: 02:20:42 End Time: 10:26:36 Time On Btm: 2012.08.12 @ 04:02:07
 Time Off Btm: 2012.08.12 @ 08:33:07

TEST COMMENT: IF: Strong blow . BOB in 1 min.
 IS: No blow
 FF: Strong blow . BOB 15sec. GTS @ 37min.
 FS: Weak 1/2" BB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.48	111.41	Initial Hydro-static
2	26.53	113.18	Open To Flow (1)
31	49.41	115.74	Shut-In(1)
91	730.38	120.48	End Shut-In(1)
92	49.39	116.70	Open To Flow (2)
151	67.71	118.13	Shut-In(2)
271	746.96	121.52	End Shut-In(2)
271	1818.61	122.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%gas 24%oil 56%mud	0.30
60.00	OGCM 4%oil 10%gas 86%mud	0.31
20.00	SLI OCM 2%oil 98%mud	0.28

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.50	6.70
Last Gas Rate	0.13	3.50	6.70
Max. Gas Rate	0.13	3.50	6.70



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC.

25-28s-6w

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Kostner "B" #2

Job Ticket: 49535

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.08.12 @ 02:20:37

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:

4000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOCM 20%gas 24%oil 56%mud	0.295
60.00	OGCM 4%oil 10%gas 86%mud	0.313
20.00	SLI OCM 2%oil 98%mud	0.281

Total Length: 140.00 ft

Total Volume: 0.889 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Woolsey Oper. Co. LLC.

25-28s-6w

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Kostner "B" #2

Job Ticket: 49535

DST#: 2

ATTN: Roger Fisher

Test Start: 2012.08.12 @ 02:20:37

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	40	0.13	3.50	6.70
2	40	0.13	3.50	6.70
2	40	0.13	3.50	6.70

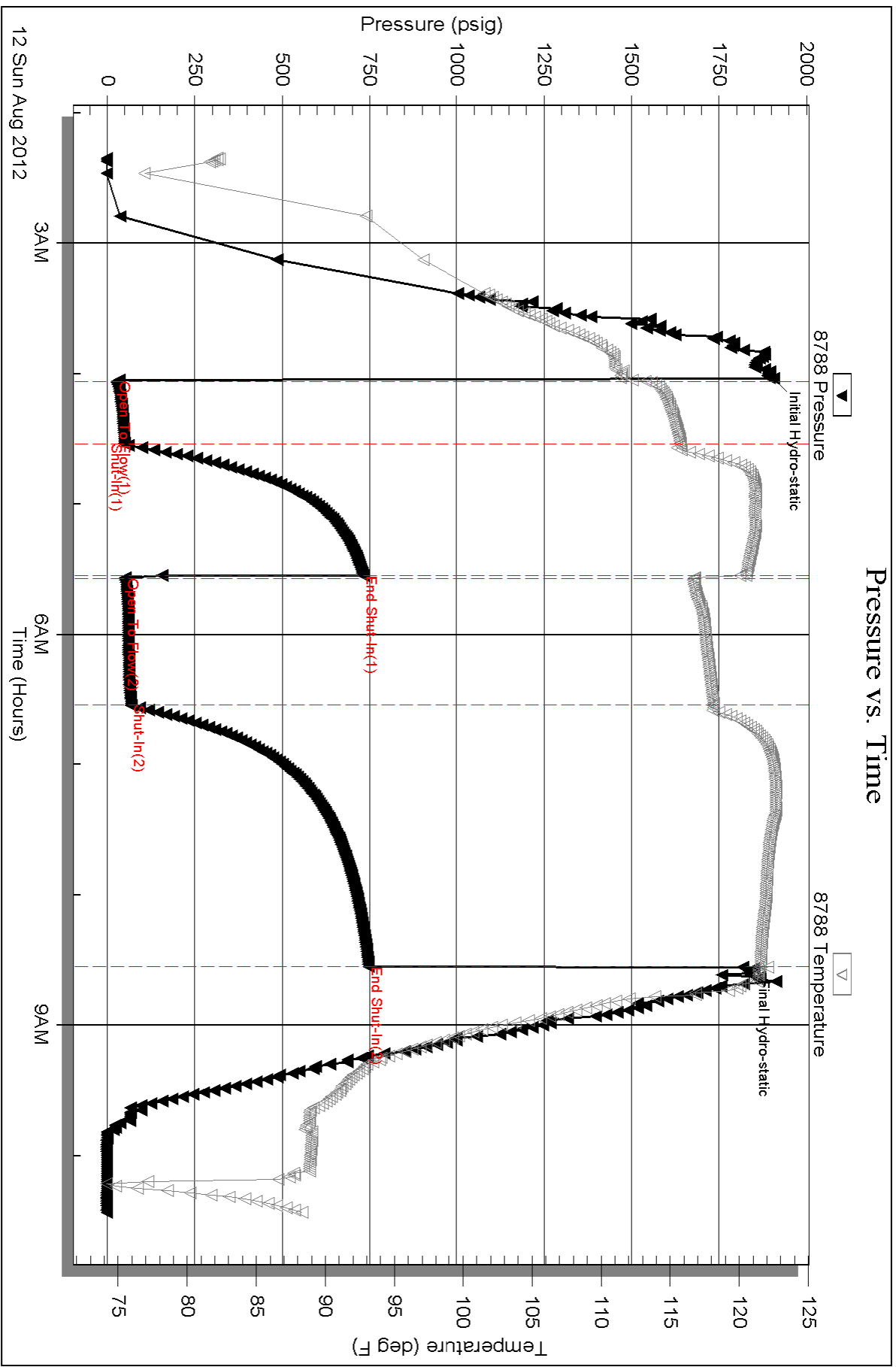
Serial #: 8788

Inside

Woodsey Oper. Co. LLC.

Kostner "B" #2

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.
 125 N. Market Ste. 1000
 Wichita, KS 67202-1729
 ATTN: Roger Fisher

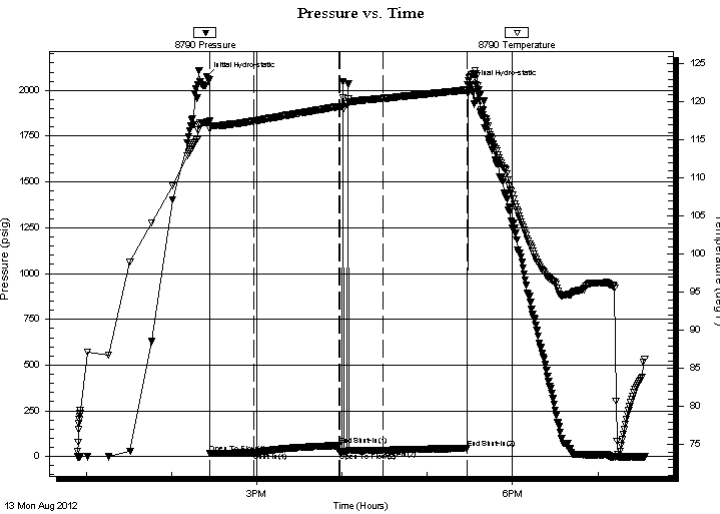
25-28s-6w
Kostner "B" #2
 Job Ticket: 49536 **DST#: 3**
 Test Start: 2012.08.13 @ 12:53:54

GENERAL INFORMATION:

Formation: **Misner Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:09
 Time Test Ended: 19:33:09
 Interval: **4116.00 ft (KB) To 4190.00 ft (KB) (TVD)**
 Total Depth: 4190.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 63
 Reference Elevations: 1428.00 ft (KB)
 1418.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790 Inside
 Press @ Run Depth: 33.84 psig @ 4117.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.13 End Date: 2012.08.13 Last Calib.: 2012.08.13
 Start Time: 12:53:59 End Time: 19:33:08 Time On Btm: 2012.08.13 @ 14:24:39
 Time Off Btm: 2012.08.13 @ 17:29:39

TEST COMMENT: IF: Weak blow . 1/2" - Dead in 6 mins.
 IS: No blow
 FF: No blow . Flushed tool 5 min. & 10 min. into flow period. No blow
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.67	117.37	Initial Hydro-static
3	18.24	116.46	Open To Flow (1)
34	20.45	117.51	Shut-In(1)
93	60.11	119.41	End Shut-In(1)
94	22.29	119.38	Open To Flow (2)
125	33.84	120.48	Shut-In(2)
184	44.51	121.59	End Shut-In(2)
185	2030.24	123.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100% mud	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC.

25-28s-6w

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Kostner "B" #2

Job Ticket: 49536

DST#: 3

ATTN: Roger Fisher

Test Start: 2012.08.13 @ 12:53:54

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:

3000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100% mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

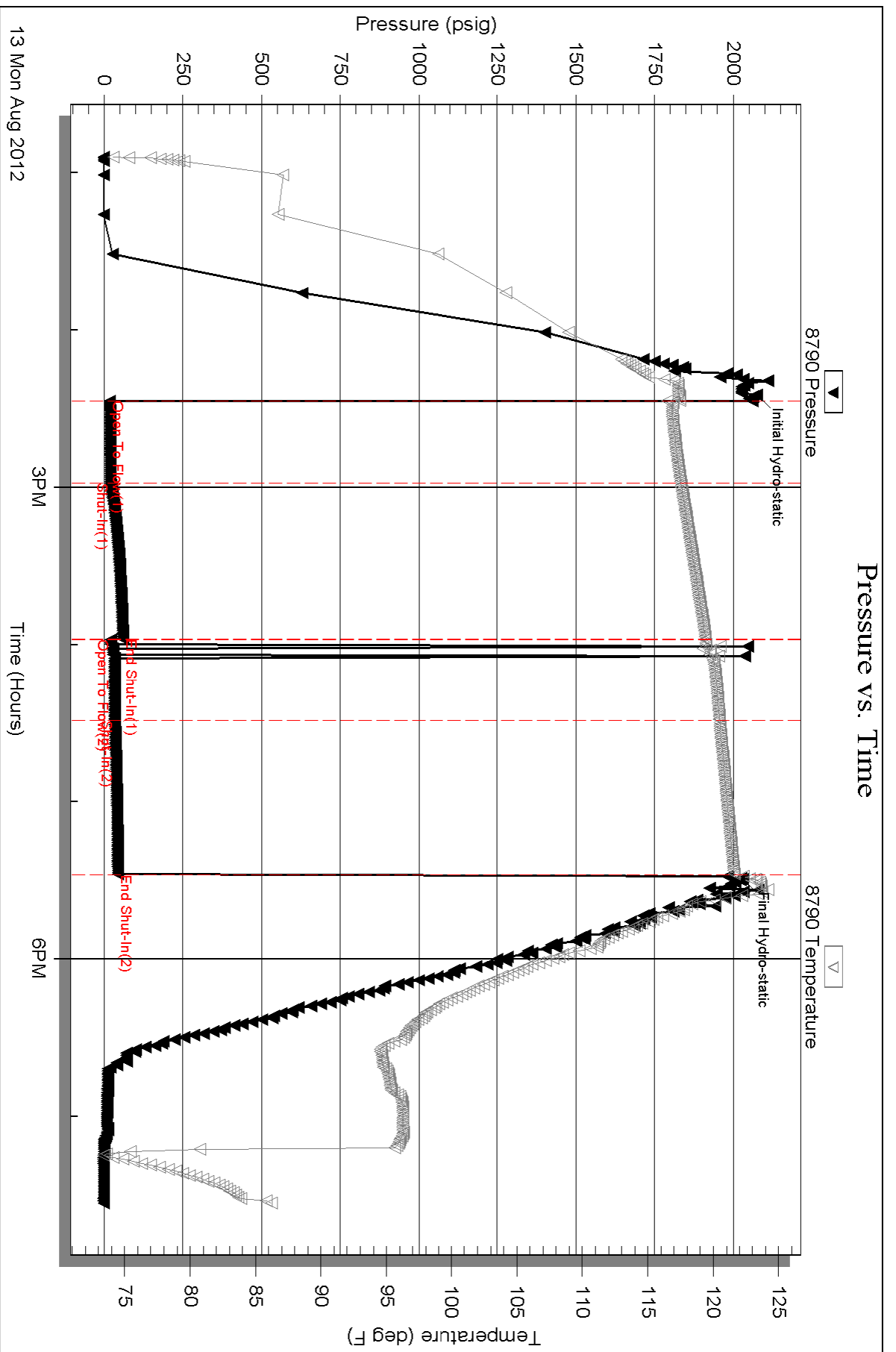
Serial #: 8790

Inside

Woodsey Oper. Co. LLC.

Kostner "B" #2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 49536

Printed: 2012.08.14 @ 01:13:30



Woolsey Operating Company, LLC
 Scale 1:240 (5"=100') Imperial
 Measured Depth Log

Well Name: Kostner GU B#2
 Location: S/2-SW-SW/4 Section 25 T28S-R6W
 License Number: API: 15-095-22262-00-00
 Spud Date: Aug. 2, 2012
 Surface Coordinates: 330' FSL & 660' FWL Section 25 T28S-R6W
 Region: Kingman Co, KS
 Drilling Completed: Aug 14, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1418' K.B. Elevation (ft): 1428'
 Logged Interval (ft): 2500 To: TD Total Depth (ft): 4403
 Formation:
 Type of Drilling Fluid: Chemical Displaced at 2500'

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company, LLC
 Address: 125 N. Market, Suite 1000
 Wichita, KS 67202

GEOLOGIST





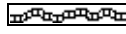

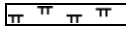

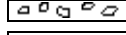


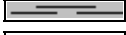
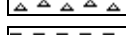

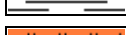
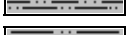
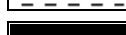






Name: Roger L. Fisher
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 Address: 1928 N. Garland
 Wichita Kansas, 67203

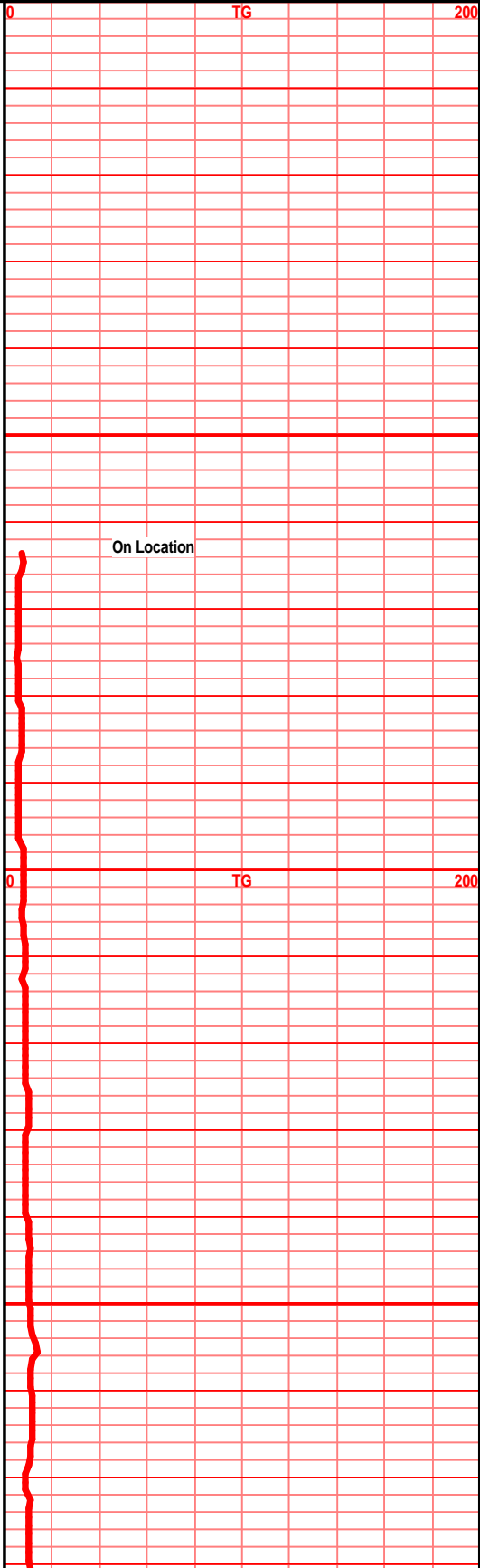
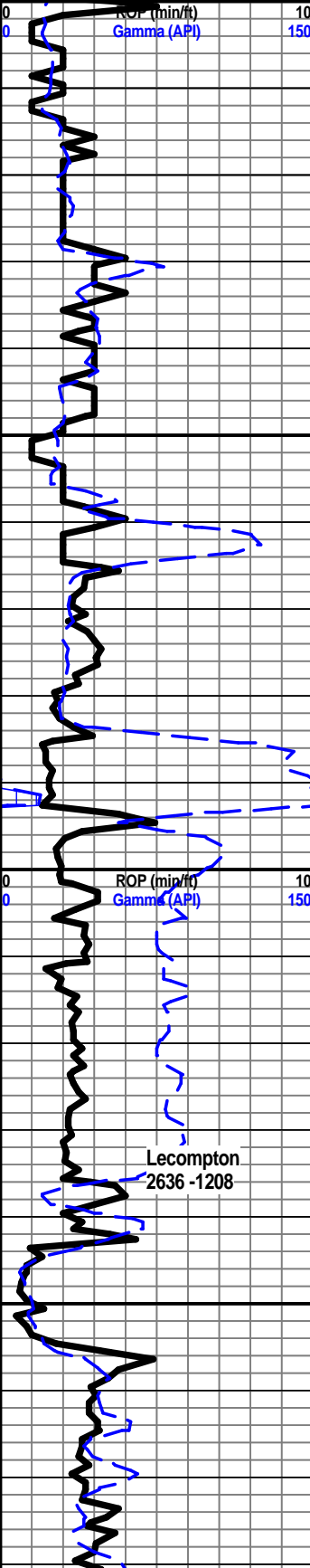
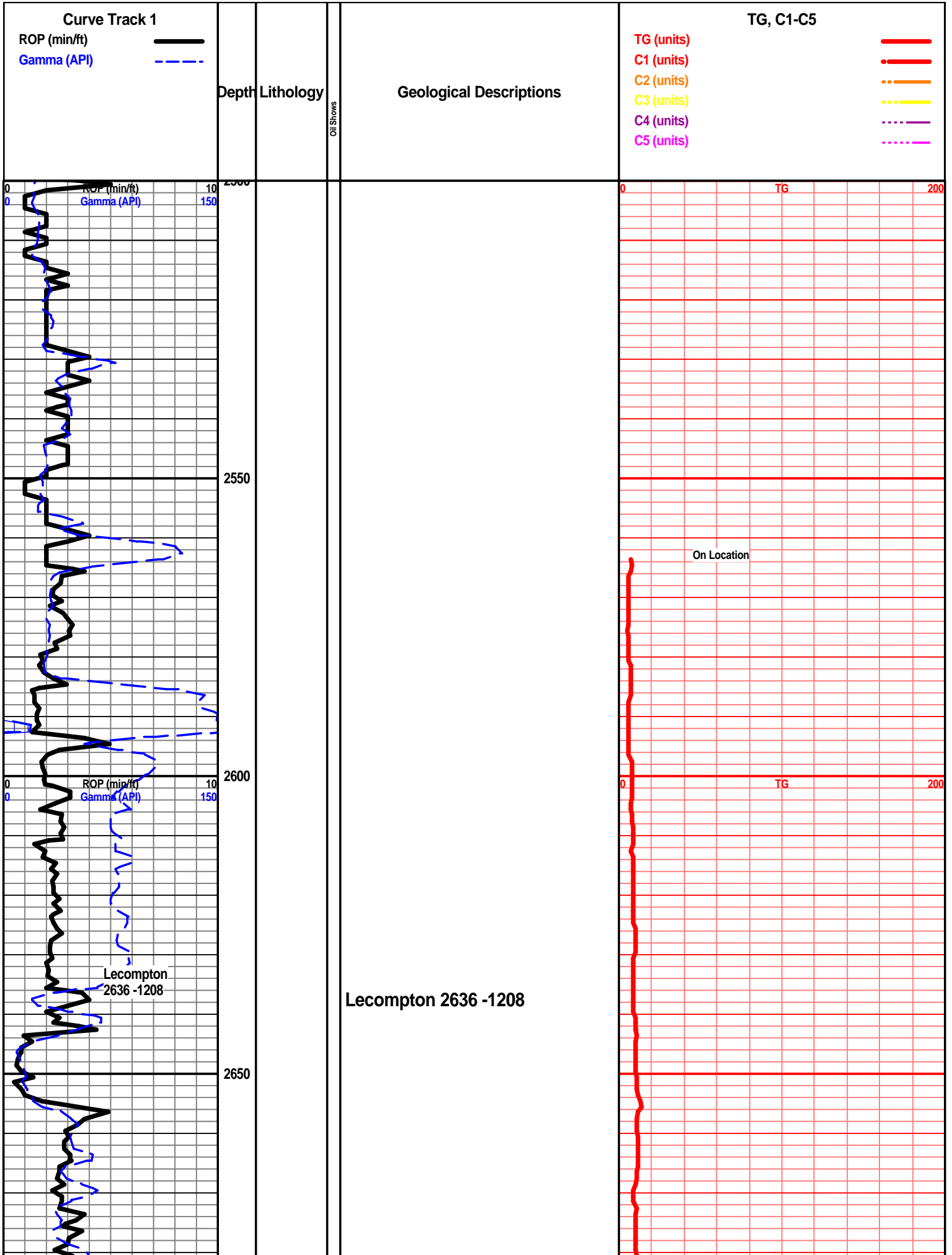
COMMENTS

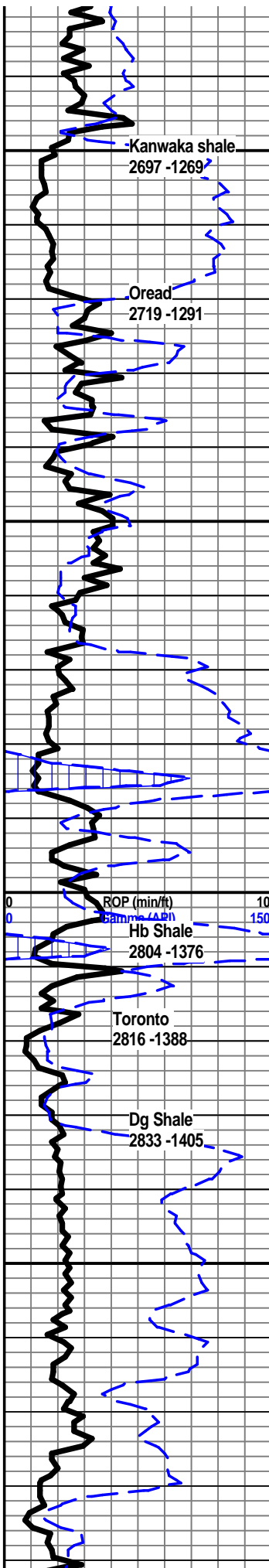
Surface Casing: 287' of 10 1/2"
 Production Casing: 4402' of 4 1/2"
 Hardt Drilling Rig
 Gas Detector: Woolsey Operating Lab
 Mud System: Mud Co
 OH Logs: Superior Wireline; DILL, CDL/CNL/PE

Pipe was run to further test

ROCK TYPES

 Anhy	 Congl	 Lmst	 Black sh
 Bent	 Sdy dolo	 Mrlst	 Gry sh
 Brec	 Shy dolo	 Salt	 Shale
 Cht	 Dol	 Shale	 Shysltst
 Clyst	 Gyp	 Sltst	 Sltsh
 Coal	 Sdy lmst	 Ss	





2700

2750

2800

2850

Kanwaka Shale 2696 -1269

Oread 2719 -1291

Shale Black dark gray

Ls tan fxlIn dense sli foss No vis porosity N.S.

Hb Shale 2804 -1376

Shale Black

Ls tan vfxIn dense sli foss N.S.

Shale light green gray reddish brown

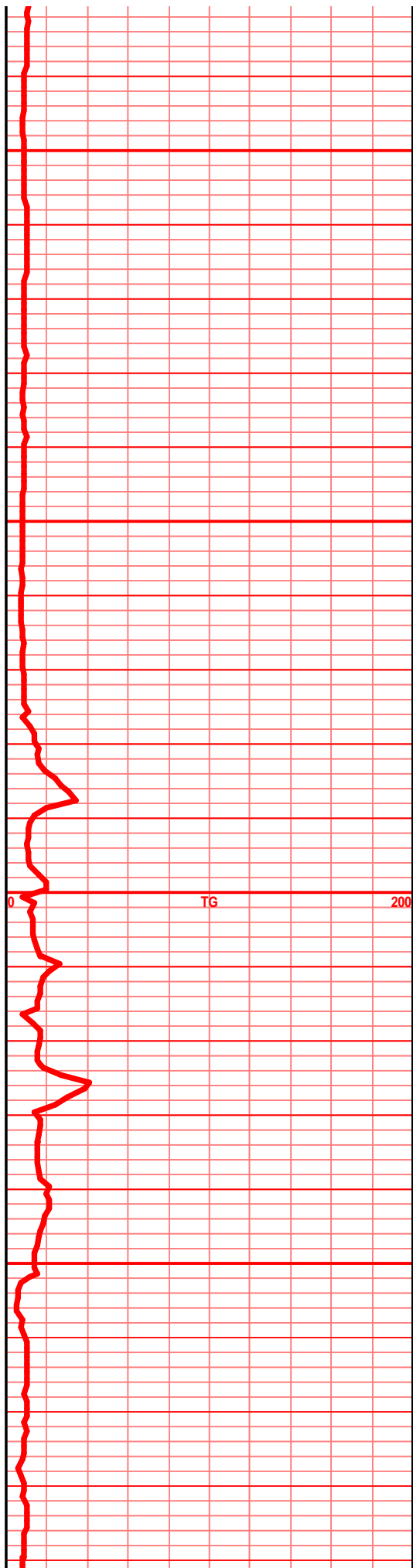
Ls gray f-mxIn sli foss scattered fair int xln porosity chalky N.S.

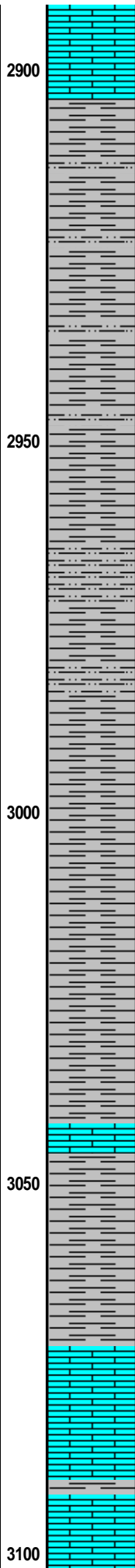
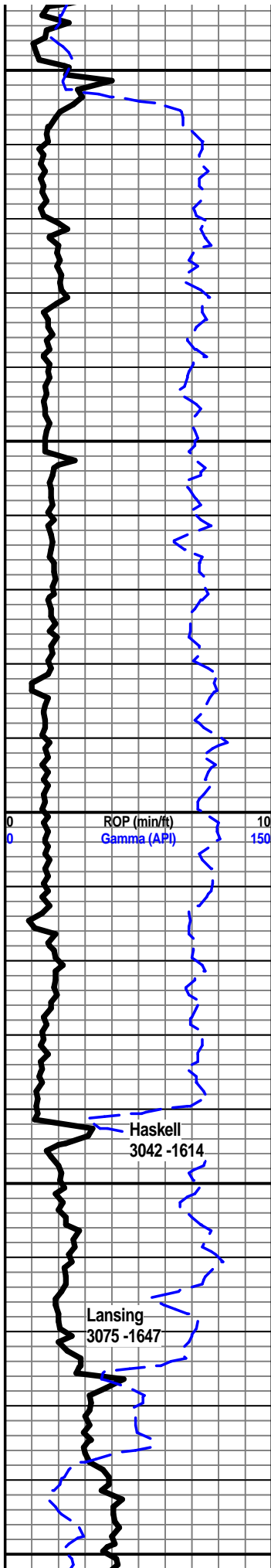
Ls white vf-mxIn foss some recrystalized chert few vugs mostly poor int xln por No Flor or Odor Sli stain on edge

Shale gray mica silty sandy vfine grain friable N.S.

Shale gray light green silty sandy mica shale inclusions N.S.

Ls gray vfxIn dense N.S.





Ls light tan vfxln foss vuggy sli cherty foss fragments poor pin point porosity Scattered fair int foss porosity N.S.

Shale light gray to med gray silty mica sli sandy

Shale light gray to med gray silty mica some sandy shale inclusions

Shale light to med gray silty sandy mica shale inclusions

Shale light to med gray silty mica shale inclusions

Shale light to med gray gray silty

Shale light to med gray silty

Haskell 3042 -1611

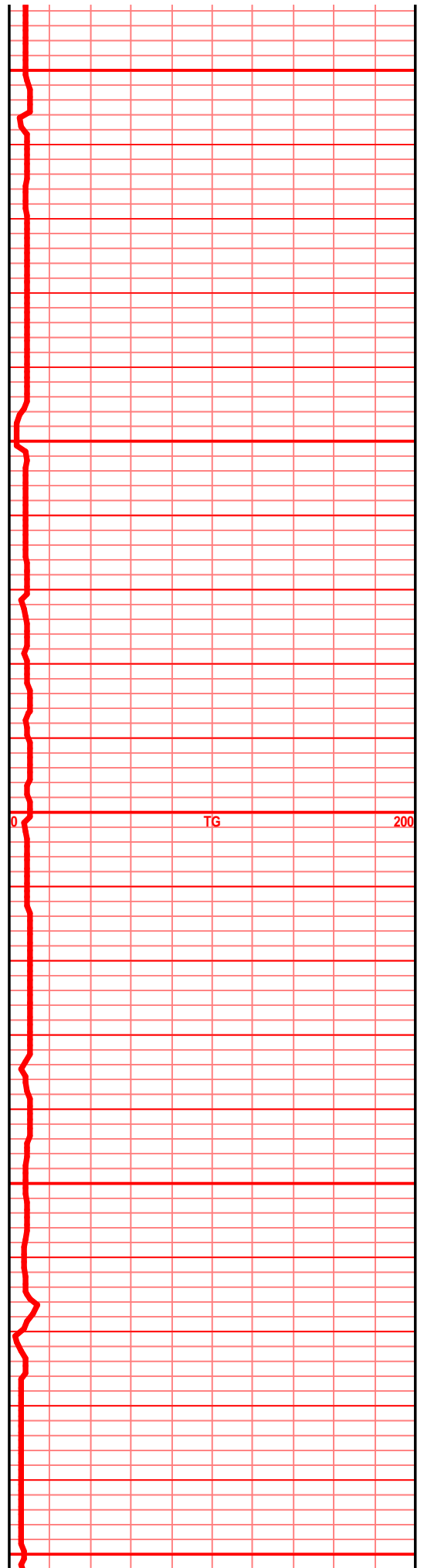
Ls tan vfxln sli foss dense cherty N.S.

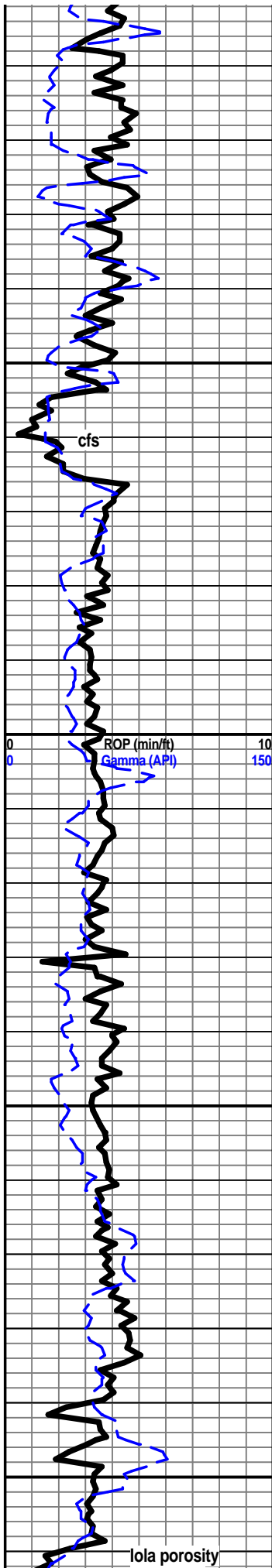
Shale light gray silty

Ls white fxln chalky foss Poor int xln por N.S.

Ls tan vfxln foss dense Poor int foss porosity N.S.

Ls off-white light tan f-cxln dense foss recrystalized chert scattered int xln por N.S.



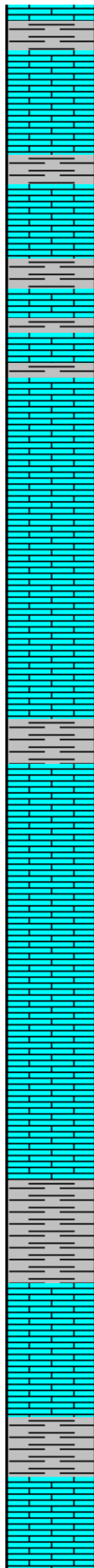


3150

3200

3250

3300



Ls gray vfxln sli foss sli cherty dense No vis porosity N.S.

Ls white vfxln chalky few vugs N.S.

Ls tan vf-cxln dense foss sli cherty No vis por N.S.

Shale gray

Ls tan f-mxln foss scattered fair int xln por Mostly poor N.S.

Shale light gray light green Ls gray vfxln dense foss N.S.

Ls light tan f-mxln oolitic some sli oolmoldic friable some chalky fair int ool porosity N.S.

Ls gray vfxln foss dense sli cherty No vis porosity N.S.

Ls tan vfxln foss dense cherty Poor int xln porosity N.S.

Shale light to med gray light green

Ls light gray to light tan vfxln foss dense poor

Ls dark gray vfxln foss dense No vis porosity N.S.

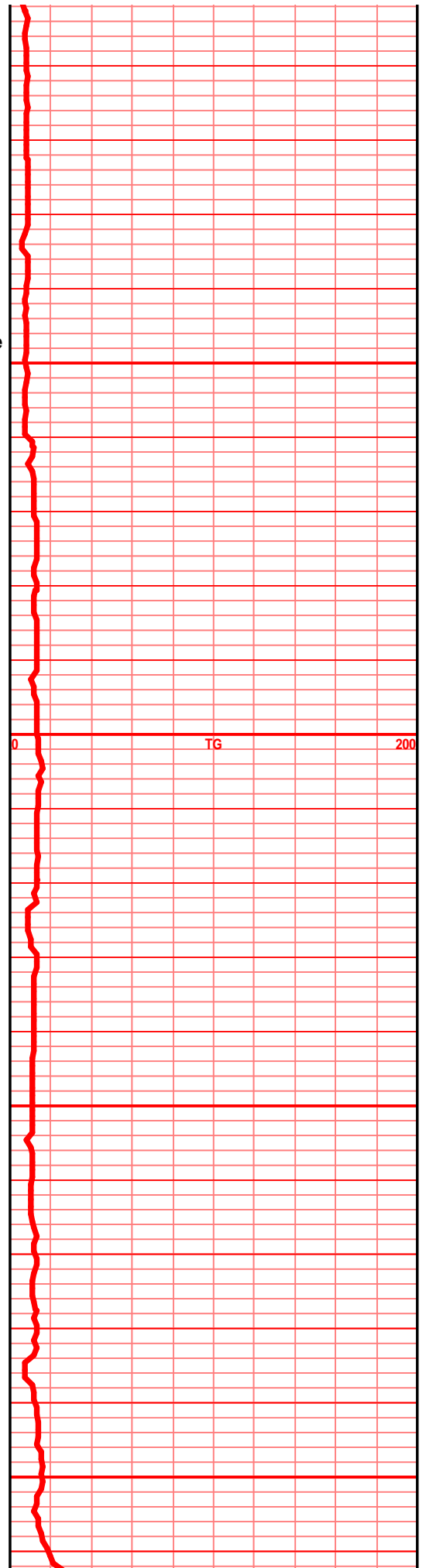
Ls gray vfxln sli foss dense N.S. No vis porosity

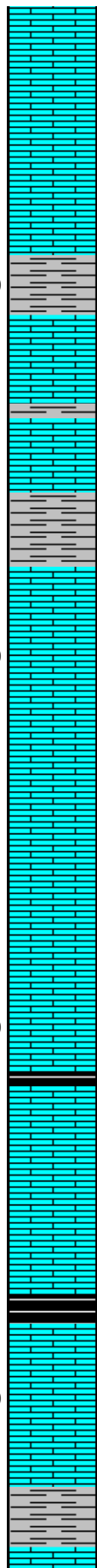
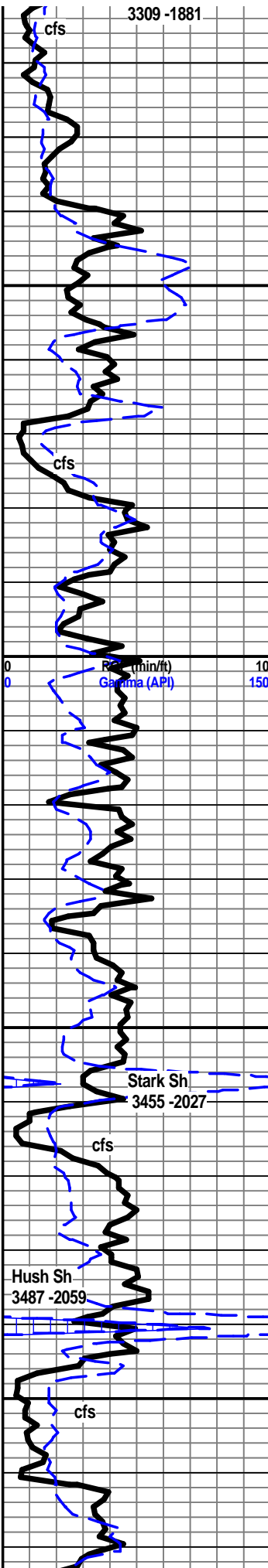
Shale light to dark gray Black light green

Ls dark gray vfxln dense v sli foss sli cherty poor int xln porosity N.S.

Shale light to med gray light green some dark gray silty

Ls light tan fxln sli foss poor int xln porosity N.S.





LS light tan f-mxln oolitic fossil fragments
chalky Fair int xln porosity dull Flor No Odor
No gas bubbles

LS light tan light gray fxl oolitic chalky
slightly vuggy poor int ool porosity N.S.

LS white f-mxln oolitic cherty poor int xln
porosity scattered fair pin point porosity N.S.

Shale light to dark gray

LS dark gray vf-mxln sli foss cherty dense
scattered fair int xln por Mostly Poor porosity
N.S.

LS light tan f-mxln foss Small vugs friable Poor
pin point porosity few gas bubbles faint odor
when broken Poor sptd Flor

LS tan vfxln dense sli foss cherty No Vis por
N.S.

Shale light gray light green

LS tan vfxln dense cherty tan opaque white
sharp fresh N.S.

LS tan vfxln dense N.S.

LS light gray fxl subchalky slightly foss N.S.

LS light tan fxl sucrosic oolitic chalky
scattered fair int ool porosity N.S.

LS light gray vfxln dense N.S.

Shale Black

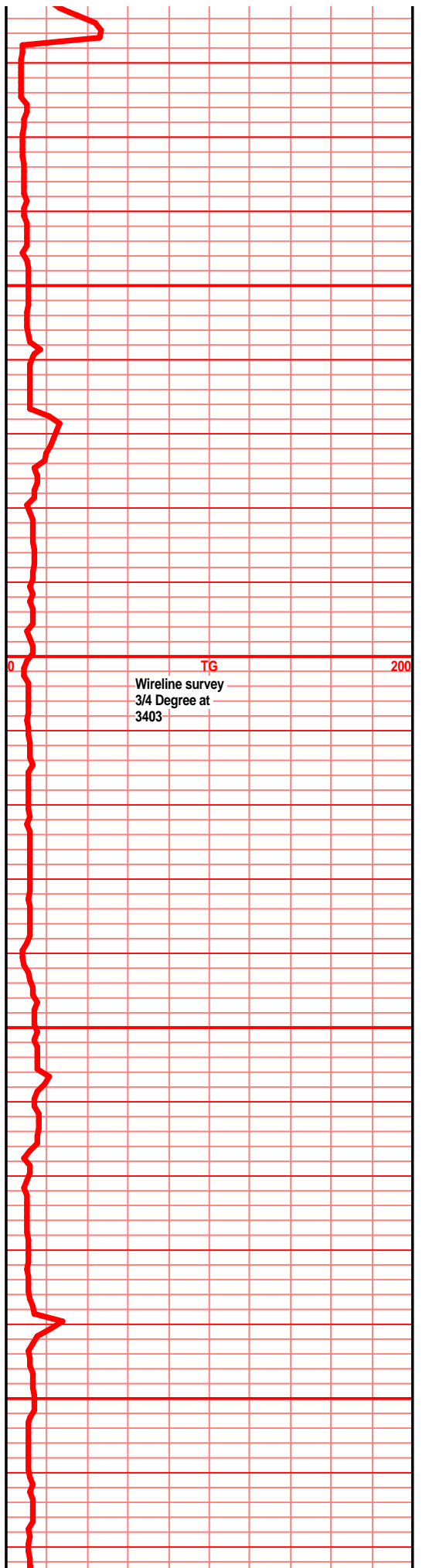
LS dark tan fxl oolitic Good oolmoldic
porosity Scattered poor spotted Flor No Gas
bubbles or Odor

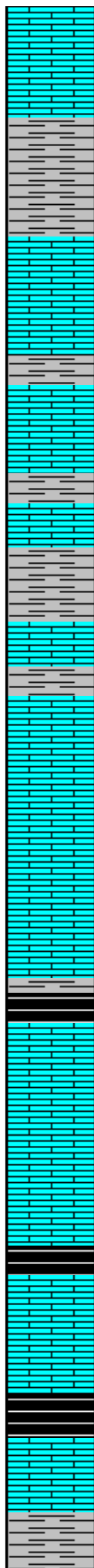
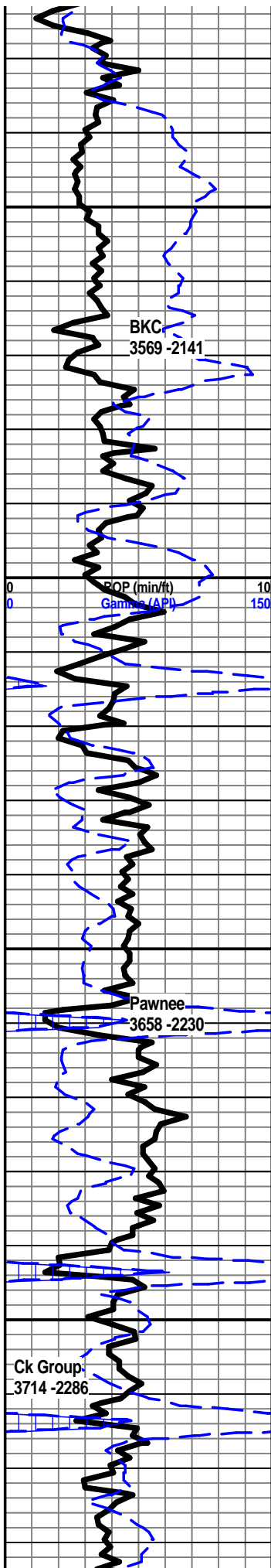
LS brown tan vfxln dense sli foss some mottled
No vis porosity N.S.

Shale Black

LS tan vfxln oolmoldic Fair Oolmoldic Porosity
cherty fossil fragments N.S.

LS tan vfxln foss dense herty tan opaque N.S.





Shale gray

Ls tan vfxln ool cherty vuggy poor int xln porosity N.S.

Shale light to med gray black light green

Ls white fxlN chalky to tan dense N.S.

Shale Gray

Ls tan vfxln dense No vis porosity N.S.

Shale light to dark gray marron light green

Ls Dark gray vfxln foss dense cherty white opaque N.S.

Shale blue green gray

Ls light gray f-cxln foss glaucunite dense scattered fair pin point porosity N.S.

Ls gray vfxln chalky N.S.

Shale light to dark gray light green

Ls tan vfxln dense No vis porosity N.S.

Ls gray vfxln to sucrosic mostly dense poor porosity N.S.

Ls gray f-cxln mostly dense some chalky mottled N.S.

Shale Black

Ls gray vfxln dense some chalky N.S.

Ls gray vf-fxln dense No vis proosity N.S.

Ls tan vfxln dense poor int xln porosity N.S.

Shale Black

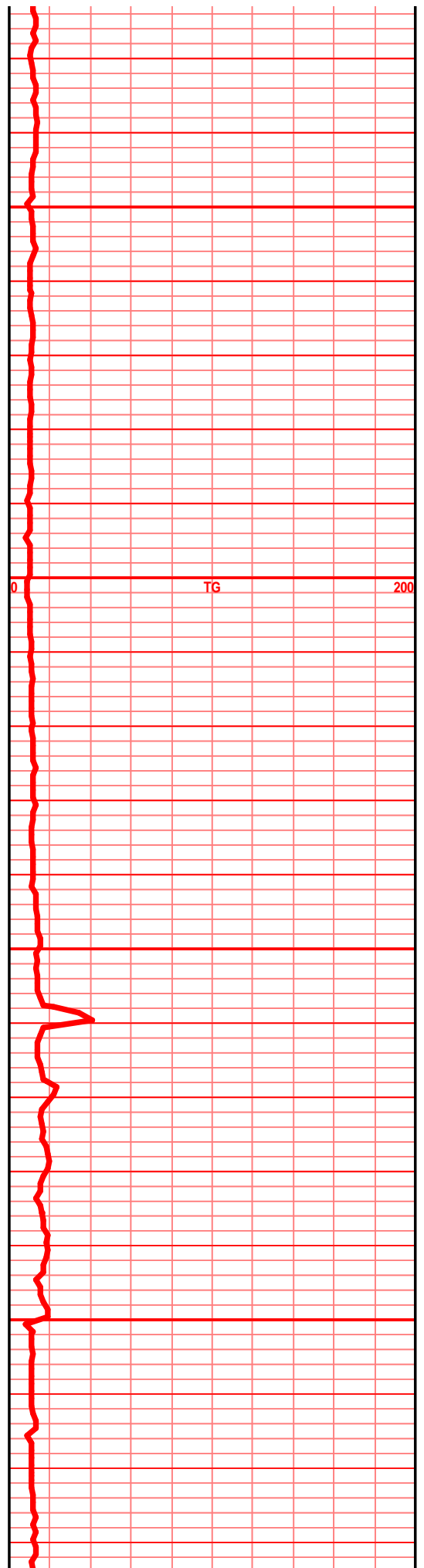
Ls gray vfxln dense sli foss N.S.

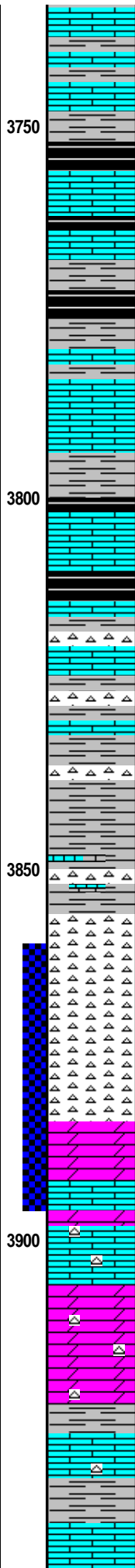
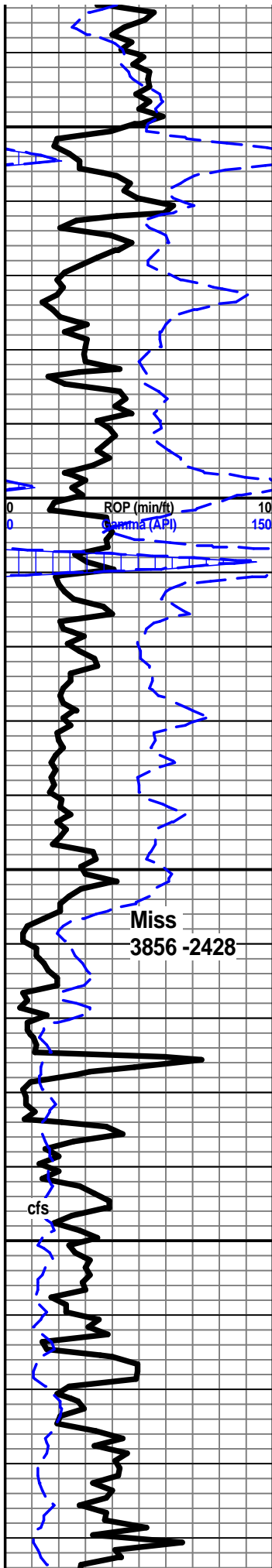
Ls white vfxln chalky

Shale Black

Ls light gray vfxln foss dense sli cherty No Vis porosity N.S.

Shale light green light gray med gray Black





Ls gray vfxln dense N.S.

Ls white vfxln chalky foss poor int xln porosity
Dull sptd Flor No Gas or other shows

Shale black med to dark gray green

Ls Dark tan vfxln dense sli foss cherty No Vis
Por N.S.

Shale Black gray light green

Ls dark gray vfxln dense N.S.

Shale gray black green

Ls gray tan vfxln dense N.S.

Shale Black

Ls gray tan f-cxln cherty dense weathered N.S.

Shale green waxy maroon

Ls tan vfxln dense Chert tan sharp fresh

Shale Green Black yellow maroon Chert tan
fresh sharp

Ls white light green mxln chalky chert tan
opaque some weathered

Chert white tan weathered trip poor pin pt por
P sptd stain & Dull sptd Flor VSSFO Blk
residue

Chert white tan trip weathered poor pin point
porosity VSSGFO W/stain mostly barren no
Stain or Flor

Cherty Dol fxlN some sucrosic poor pin point
porosity poor to fair int xln porosity Gd Sat
stain FSGFO Faint Odor Fair yellow Flor
Streaming Flor when cut

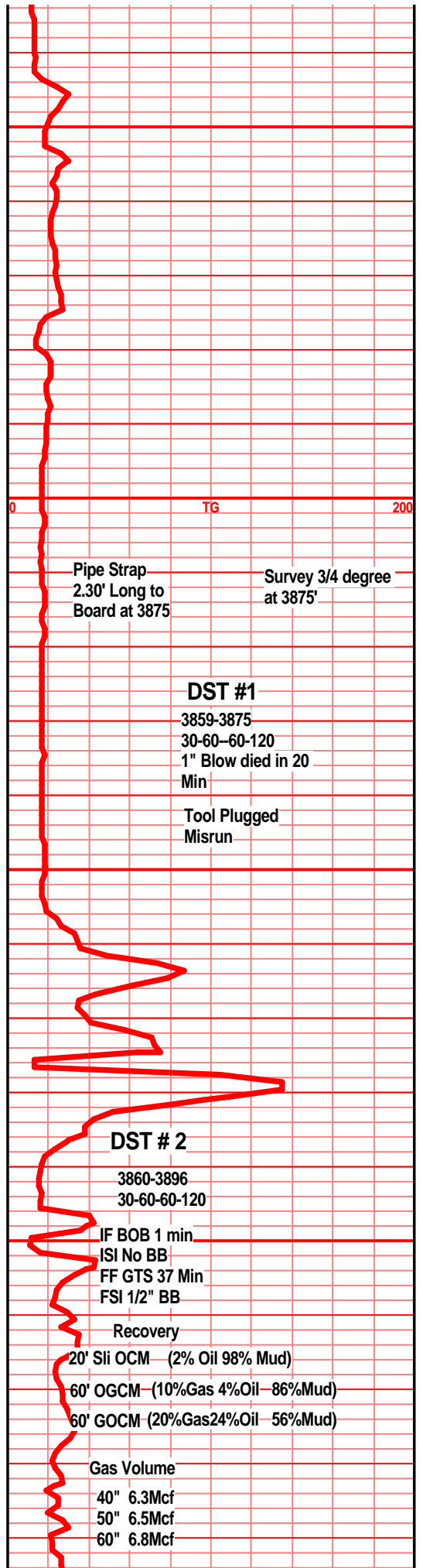
Dol white fxlN sucrosic fair int xln porosity
FSGFO friable chalky Fair Odor Light Sat stain
Fair Flor

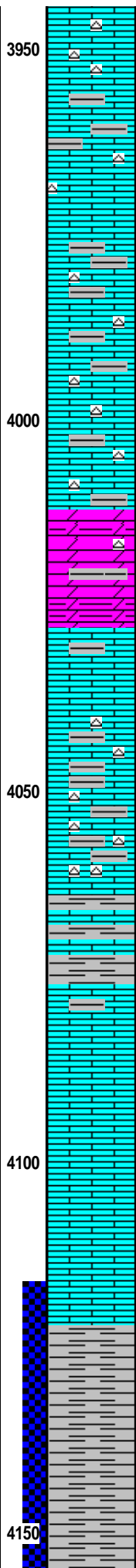
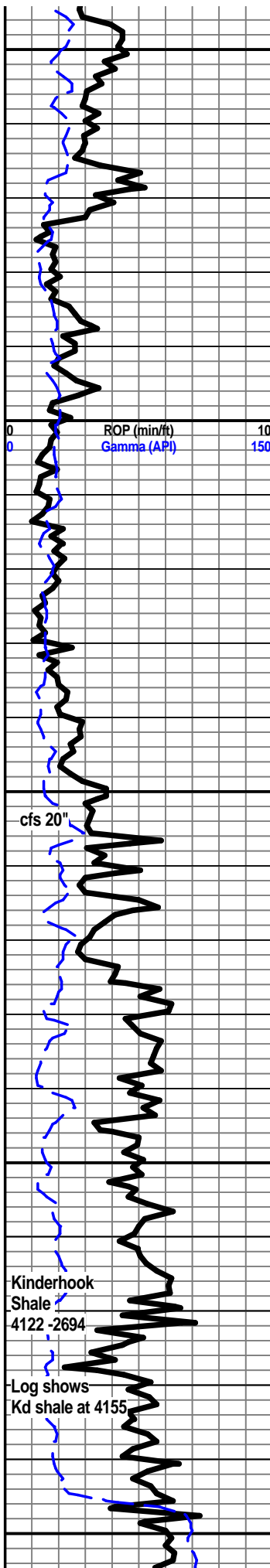
Ls tan gray vfxln to mxln sli foss cherty white
tan sli spotted stain Fair int xln porosity No
Flor or gas shows

Dol light tan f-mxln scattered fair int xln
porosity mostly poor and dense sli cherty N.S.

Dol Ls white fxlN fair int xln porosity friable
chalky Chert frag opaque light tan white N.S.

Ls white light gray f-cxln sli foss chalky fair int
xln porosity N.S.





Ls gray fxln dense cherty white tan sharp fresh
Poor int xln por N.S.

Ls as above cherty w/Shale light green gray
maroon reddish brown

Ls light tan f-mxln foss dense Fair int xln
porosity N.S.

Ls as above Chert white gray w/Shale bluish
green green brown gray

Ls gray f-mxln chalky Chert gray white light
green sli trip fresh sharp interbedded w/Shale
green gray brown maroon

Ls white f-mxln chalky foss mealy Chert white
gray foss some weathered trip interbedded
W/Shale brown black green

Dol brown fxln sucrosic chalky fair int xln por
trace Black residue chert white gray pale green
tan Shale green black gray red brown

Ls white f-cxln chalky to dense foss Shale
inclusions increase in Chert white gray foss
fresh sharp Shale Brown green gray as above

Ls white gray fxln dense Chert Blueish gray
sharp fresh Shale as above

Ls white gray f-cxln cherty dense interbedded
w/Shale light to med gray green N.S.

Increase in Shale brown gray green

Ls white light gray fxln Shale gray green
reddish brown

Ls gray f-cxln chalky Chert bluish gray opaque
Shale as above

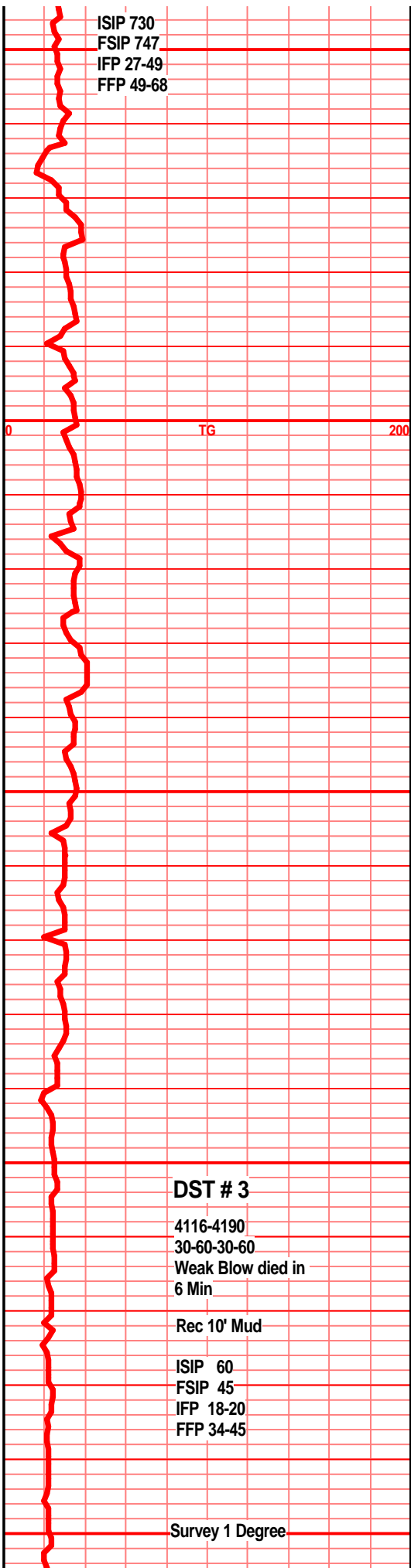
Ls gray fxln increase in shale light to med gray
green brown

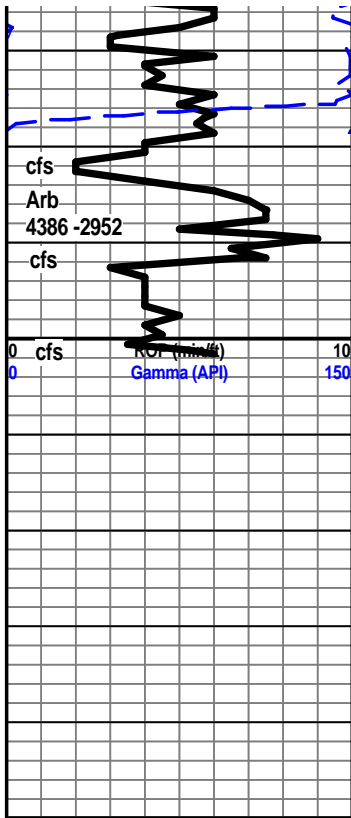
Ls gray fxln much shale light to med gray
reddish brown green

Ls gray vfxln dense Chert bluish gray tan white
sharp fresh Shale light to med gray green
brown

Increase in Shale light to med gray green
brown maroon

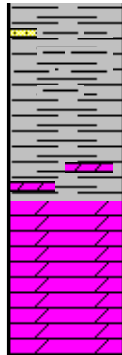
Shale light green light to med gray maroon





4400

4450



Shale bright green waxy

Shale Marron light to dark gray green yellow

Dol white sucrosic dense cherty poor int xln
 porosity VSSFO GD Flor milky white when cut
 Light sptd to sat stain No Odor
 Dol fxln-mxln light gray fair int xln porosity
 N.S.

