



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: _____



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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 17, 2011

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

Re: ACO1
API 15-007-23667-00-00
DIEL F 1
SW/4 Sec.24-34S-11W
Barber 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 CEMENTING CO., LLC. 040060

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>3-30-2014</u>	SEC. <u>24</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>12:00 AM</u>	ON LOCATION <u>5:00 PM</u>	JOB START <u>12:00 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Drei F</u> WELL # <u>1</u>			LOCATION <u>Medicine Lodge KS south</u>			COUNTY <u>Barker</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			<u>to Gevism, west to Bethel, S to R. 5</u>				

CONTRACTOR <u>H2#3</u>	OWNER <u>Woolsey Operating</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>5220'</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>5050'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>121 bbls OR 2% KCL water</u>	

CEMENT			
AMOUNT ORDERED	<u>150 sk class H + 10% Gyp</u>		
	<u>10% Gyp + 6# Kalseal + .8% FL-160 + 4% K</u>		
	<u>Floseci 7.5% CO. 4.4% Gel</u>		
	<u>135 sk Clapro</u>		
COMMON <u>class A</u>	<u>45 sk @ 15.45</u>		<u>695.25</u>
POZMIX	<u>30 sk @ 8.00</u>		<u>240.00</u>
GEL	<u>35 sk @ 20.00</u>		<u>62.40</u>
CHLORIDE	@		
ASE <u>class "H"</u>	<u>150 sk @ 16.75</u>		<u>2512.50</u>
<u>Gyp seal</u>	<u>15 sk @ 29.20</u>		<u>438.00</u>
<u>Salt</u>	<u>17 sk @ 12.00</u>		<u>204.00</u>
<u>Kalseal</u>	<u>900 # @ .89</u>		<u>801.00</u>
<u>Floseci</u>	<u>38 # @ 2.50</u>		<u>95.00</u>
<u>FL-160</u>	<u>112 # @ 13.30</u>		<u>1489.60</u>
<u>Clapro</u>	<u>13 gal @ 31.25</u>		<u>406.25</u>
	@		
	@		
HANDLING <u>202</u>	@ <u>2.40</u>		<u>284.40</u>
MILEAGE <u>282/15/10</u>			<u>423.00</u>
			<u>TOTAL 7651.40</u>

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Deryn F</u>
# <u>360-265</u>	HELPER <u>Jason T.</u>
BULK TRUCK	
# <u>352-290</u>	DRIVER <u>Ron G</u>
BULK TRUCK	
#	DRIVER

WELL FILE
Regulatory Correspondence
Drig Comp Workovers
Meters Operations

REMARKS:
Pipe on bottom & break circulation
mix 25% OR cement for rest hole, mix
50% of scoverson cement, mix 150 sk
OK tail cement, shut down, wash pump
& lines, Release plug, Start Displacement
lift pressure at 80 bbls, slow rate to
3 bpm at 110 bbls, bump plug at 121
bbls 800-1500 psi, flow dia hole

SERVICE			
DEPTH OF JOB	<u>5050'</u>		
PUMP TRUCK CHARGE			<u>2185.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>15</u>	@ <u>7.00</u>	<u>105.00</u>
MANIFOLD	@		
<u>Heca renisi</u>	@		<u>113.00</u>
	@		
			<u>TOTAL 2403.00</u>

CHARGE TO: Woolsey Operating
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT			
	<u>5 1/2</u>		
1- 10 PV Floor Shoe	@		<u>214.20</u>
1- Latch Down Plug	@		<u>163.80</u>
11- Turbolizers	@ <u>40.60</u>		<u>446.60</u>
20- scrapers	@ <u>23.94</u>		<u>478.80</u>
	@		
			<u>TOTAL 1303.40</u>

To Allied Cementing Co., 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.

SALES TAX (If Any) _____
TOTAL CHARGES ~~7651.40~~
DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME X MIKE JAAP
SIGNATURE X Mike Jaap
Thank you!!!

~~7651.40~~



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Co
125 N Market Ste1000
Wichita, KS 67202
ATTN: Curtis Covey

Deil F #1
24-34S-11W
Job Ticket: 041396 **DST#: 1**
Test Start: 2011.03.24 @ 12:29:15

GENERAL INFORMATION:

Formation: **Stalnaker**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:11:30
Time Test Ended: 20:46:45
Interval: **3955.00 ft (KB) To 3968.00 ft (KB) (TVD)**
Total Depth: 3968.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1362.00 ft (KB)
1353.00 ft (CF)
KB to GR/CF: 9.00 ft

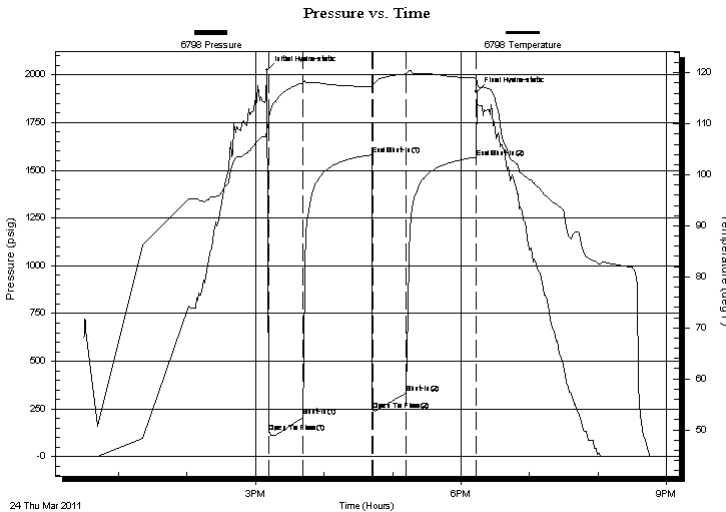
Serial #: 6798

Inside

Press @ Run Depth: 335.52 psig @ 3956.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.24 End Date: 2011.03.24 Last Calib.: 2011.03.24
Start Time: 12:29:16 End Time: 20:46:45 Time On Btm: 2011.03.24 @ 15:10:15
Time Off Btm: 2011.03.24 @ 18:14:00

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
IS: Bled Off, 2 inch Blow back
FF: Fair Blow , BOB in 8 minutes
FS: Bled Off, Surface Blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.36	108.58	Initial Hydro-static
2	128.30	111.06	Open To Flow (1)
32	213.52	118.06	Shut-In(1)
92	1579.14	117.26	End Shut-In(1)
93	244.56	117.15	Open To Flow (2)
122	335.52	119.80	Shut-In(2)
183	1568.65	118.95	End Shut-In(2)
184	1912.32	118.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1550 Feet GIP	0.00
486.00	Salt Water	4.65
92.00	GWCM 5%G 25%W 70%M	1.29

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Deil F #1

125 N Market Ste1000
Wichita, KS 67202

24-34S-11W

Job Ticket: 041396

DST#: 1

ATTN: Curtis Covey

Test Start: 2011.03.24 @ 12:29:15

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:

80000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1550 Feet GIP	0.000
486.00	Salt Water	4.649
92.00	GWCM 5%G 25%W 70%M	1.291

Total Length: 578.00 ft

Total Volume: 5.940 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

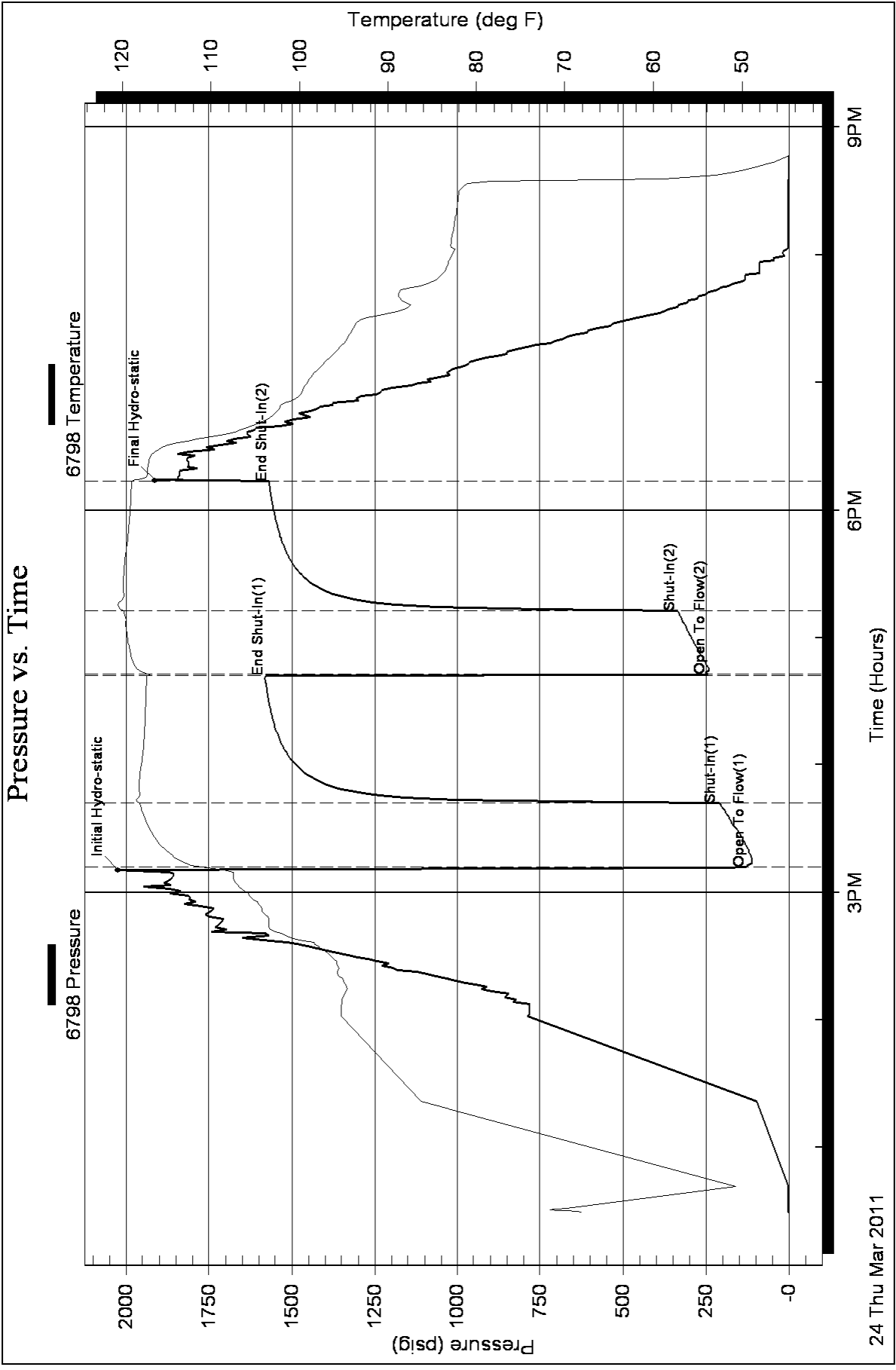
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Co
125 N Market Ste1000
Wichita, KS 67202
ATTN: Curtis Covey

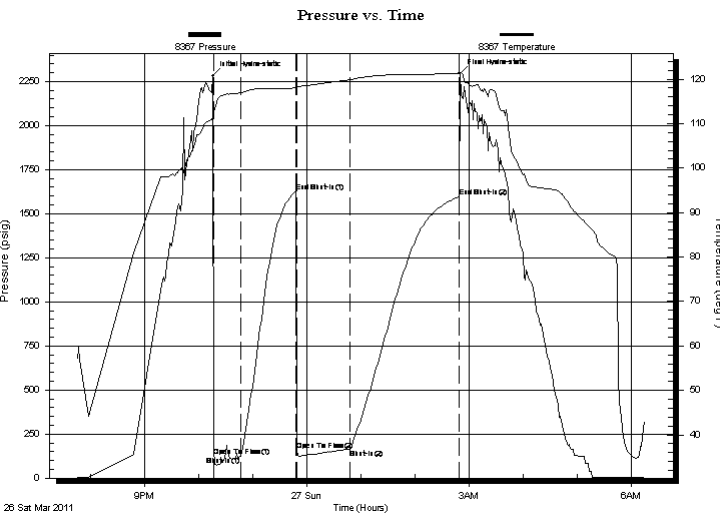
Deil F #1
24-34S-11W
Job Ticket: 041397 **DST#: 2**
Test Start: 2011.03.26 @ 19:46:05

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:16:35
Time Test Ended: 06:15:20
Interval: 4566.00 ft (KB) To 4704.00 ft (KB) (TVD)
Total Depth: 4704.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1362.00 ft (KB)
1353.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8367 Outside
Press @ Run Depth: 164.25 psig @ 4567.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.26 End Date: 2011.03.27 Last Calib.: 2011.03.27
Start Time: 19:46:06 End Time: 06:15:20 Time On Btm: 2011.03.26 @ 22:16:05
Time Off Btm: 2011.03.27 @ 02:50:05

TEST COMMENT: IF: Strong Blow , BOB in 2 1/2 minutes
IS: Bled Off, No Blow back
FF: Strong Blow , BOB Immediate, GTS in 12 minutes (TSTM) Caught Gas Sample
FS: Bled Off, No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.31	111.37	Initial Hydro-static
1	124.97	111.63	Open To Flow (1)
31	125.10	116.95	Shut-In(1)
92	1626.53	118.03	End Shut-In(1)
93	156.85	118.37	Open To Flow (2)
152	164.25	119.87	Shut-In(2)
273	1596.31	121.30	End Shut-In(2)
274	2296.49	121.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4202 Feet GIP	0.00
238.00	GSY Mud 5%G 95%M	1.17
112.00	GSY SOCM 5%G 1%O 94%M	1.57

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Deil F #1

125 N Market Ste1000
Wichita, KS 67202

24-34S-11W

Job Ticket: 041397

DST#: 2

ATTN: Curtis Covey

Test Start: 2011.03.26 @ 19:46:05

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4202 Feet GIP	0.000
238.00	GSY Mud 5%G 95%M	1.170
112.00	GSY SOCM 5%G 1%O 94%M	1.571

Total Length: 350.00 ft Total Volume: 2.741 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

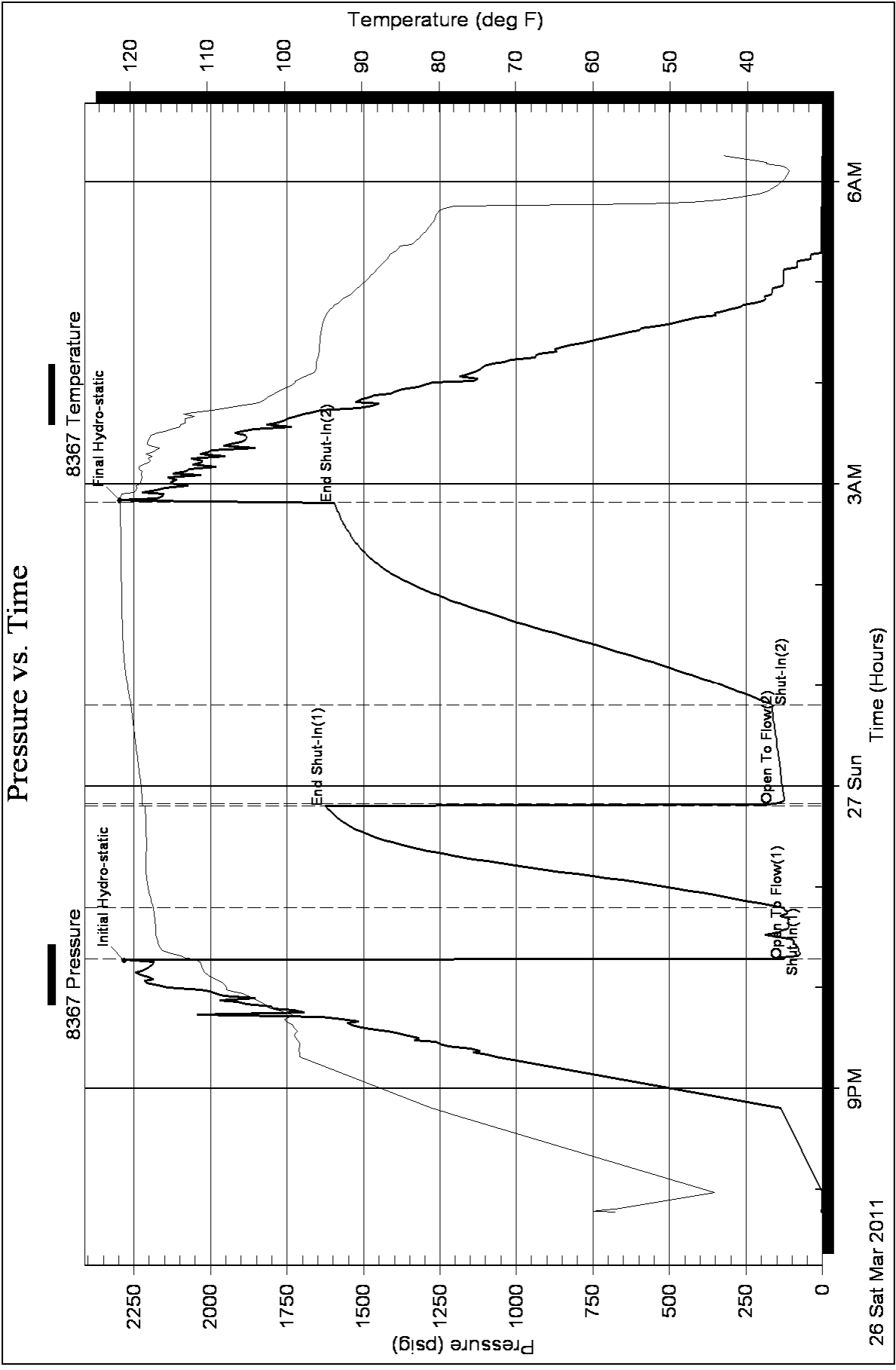
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Co
125 N Market Ste1000
Wichita, KS 67202
ATTN: Curtis Covey

Deil F #1
24-34S-11W
Job Ticket: 041398 **DST#: 3**
Test Start: 2011.03.27 @ 16:29:57

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:00:57
Time Test Ended: 02:30:57
Interval: **4703.00 ft (KB) To 4731.00 ft (KB) (TVD)**
Total Depth: 4731.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1362.00 ft (KB)
1353.00 ft (CF)
KB to GR/CF: 9.00 ft

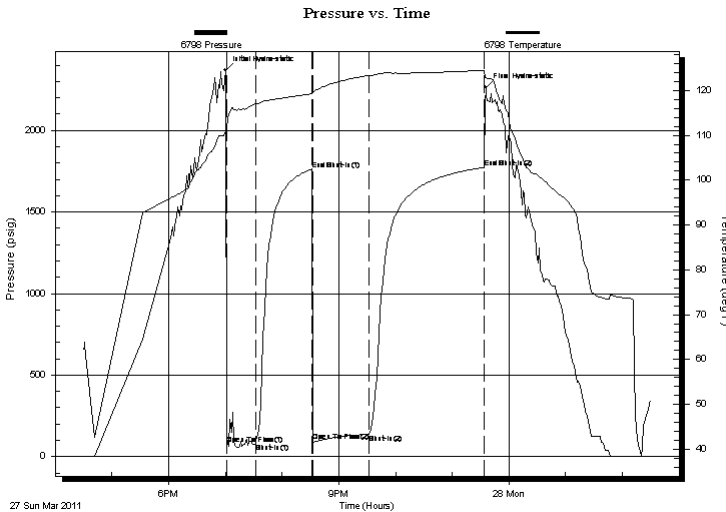
Serial #: 6798

Inside

Press @ Run Depth: 137.81 psig @ 4704.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.27 End Date: 2011.03.28 Last Calib.: 2011.03.28
Start Time: 16:29:58 End Time: 02:30:57 Time On Btm: 2011.03.27 @ 18:59:57
Time Off Btm: 2011.03.27 @ 23:35:27

TEST COMMENT: IF: Fair Blow , Built to 4 1/2 inches
IS: Bled Off, No Blow back
FF: Weak Blow , 2 inches
FS: Bled Off, No Blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.82	110.77	Initial Hydro-static
1	74.74	111.30	Open To Flow (1)
32	79.83	117.06	Shut-In(1)
92	1761.17	119.27	End Shut-In(1)
93	94.96	119.51	Open To Flow (2)
152	137.81	123.39	Shut-In(2)
274	1772.64	124.48	End Shut-In(2)
276	2262.71	122.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	Salt Water	0.58
120.00	MCW 30%M 70%W	0.59
20.00	GSY WCM 5%G 39%W 56%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co
125 N Market Ste1000
Wichita, KS 67202
ATTN: Curtis Covey

Deil F #1
24-34S-11W
Job Ticket: 041398 **DST#: 3**
Test Start: 2011.03.27 @ 16:29:57

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:	125000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
118.00	Salt Water	0.580
120.00	MCW 30%M 70%W	0.590
20.00	GSY WCM 5%G 39%W 56%M	0.281

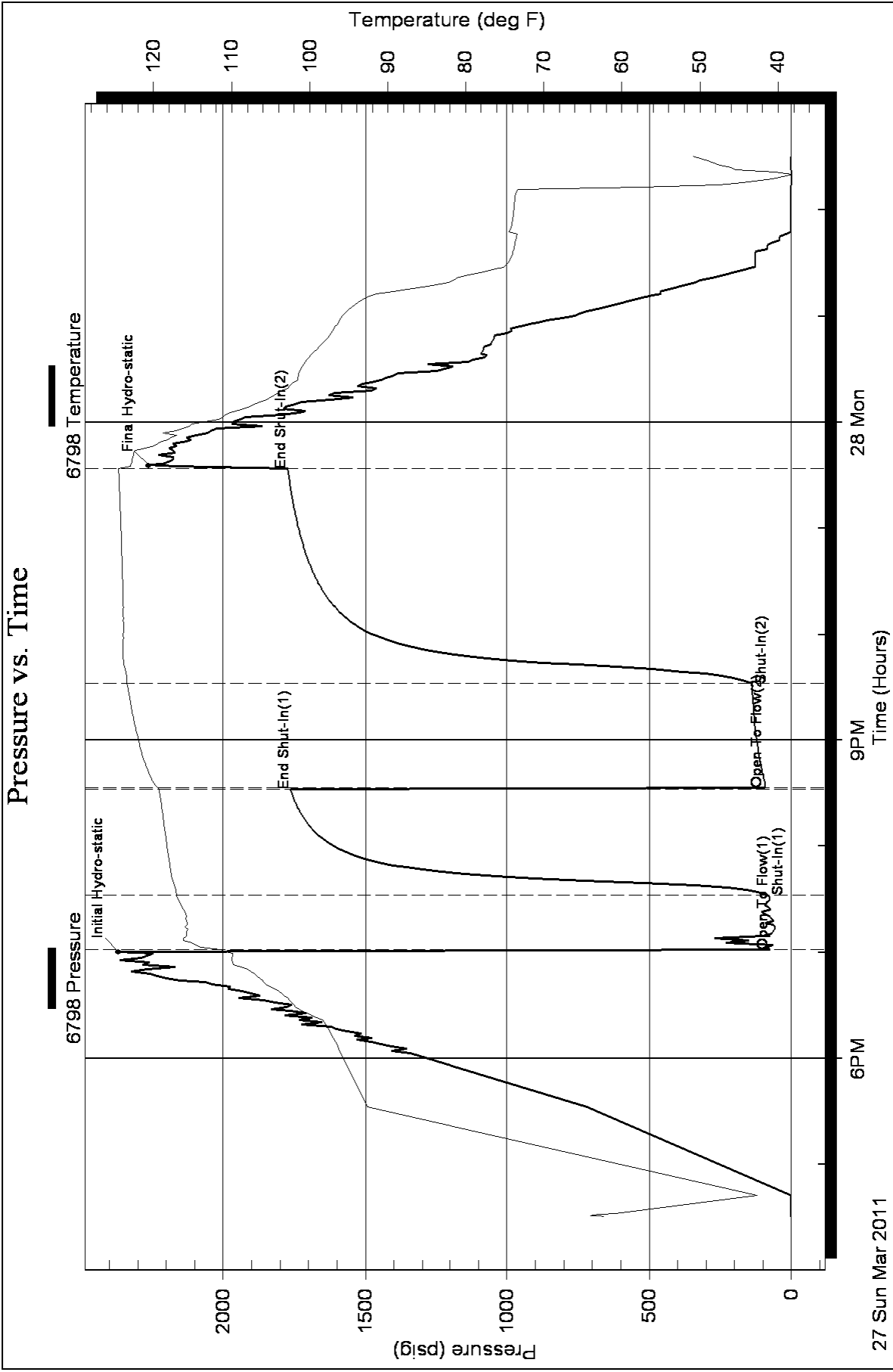
Total Length: 258.00 ft Total Volume: 1.451 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Covey

The Well Watchers

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

Well Name: DIEL F #1
Location: Section 24 - Township 34 South - Range 11 West
License Number: 15-007-23,667. 0000 Region: Barber County, KS.
Spud Date: 19 March 2011 Drilling Completed: 28 March 2011
Surface Coordinates: 820' FNL & 500' FWL
(Approx SE NE SW SW)
Bottom Hole Coordinates:
Ground Elevation (ft): 1,353' K.B. Elevation (ft): 1,362'
Logged Interval (ft): 3,550' To: 5,220' Total Depth (ft): 5,220'
Formation: Heebner Shale -----> McLish Shale
Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: WOOLSEY OPERATING COMPANY, LLC
Address: 125 North Water, Suite 1000 Geologist:
Wichita, Kansas 67202 Dean Patisson
(316) 267-4379

GEOLOGIST

Name: Curtis Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby, Kansas 67037
Office: (316) 776 - 0367 Cell: (316) 258-9976

FORMATION TOPS

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Heebner SH	3,643' (-2,281')	3,642' (-2,280')
Douglas SH	3,678' (-2,316')	3,678' (-2,316')
Haskell Lm	3,902' (-2,540')	3,902' (-2,540')
Stalnaker SS	3,953' (-2,591')	3,956' (-2,594')
Stark SH	4,363' (-3,001')	4,362' (-3,000')
Hushpuckney SH	4,399' (-3,037')	4,398' (-3,036')
B / KC	4,451' (-3,089')	4,452' (-3,090')
Pawnee LS	4,550' (-3,188')	4,548' (-3,186')
Cherokee Gp	4,596' (-3,234')	4,596' (-3,234')
Mississippian	4,660' (-3,298')	4,668' (-3,306')
Woodford Sh	4,964' (-3,602')	4,964' (-3,602')
Viola	4,993' (-3,630')	4,984' (-3,622')
Wilcox SS	5,138' (-3,776')	5,140' (-3,778')

RTD: 5,220' LTD: 5,219' ATD: 5,220' E-log is 3' low to 1' high to rotary sample depth.

Loggers:
Superior Well Services
Hays, Kansas

14-3/4" Hole

7-7/8" Hole

7-7/8" Hole

19 Mar --- Spud @ 7:30pm.
Drill to 235'.
20 --- Run 10-3/4" casing.
Set casing @ 217'.
Cemented w/ 240 sx Class A
(2% Gel + 3% CC). [Allied]
Cement did circulate.
Plug down @ 2am.
WOC.
7am @ 235'.

20 Mar --- WOC.
Under surface casing @ 10:15am..
21 --- 7am @ 1,660'.
22 --- 7am @ 2,547'.
23 --- 7am @ 3,330'.
24 --- 7am @ 3,968'.
DST #1: Stalnakker SS (3,955'-3,968').
25 --- Resumed Drilling @ 12:30am.
7am @ 4,115'.
26 --- 7am @ 4,572'. S/T: 15 stands
@ 4,572'. Resumed Drilling
@ 9:47am. Start &

27 Mar --- Finish DST #2: Miss
(4,566'-4,704').
7am @ 4,704'.
Resumed Drilling @ 7:50am.
DST #3: Miss (4,704'-4,731').
28 --- 7am @ 4,731'.
Resumed Drilling @ 7am.
29 --- 7am @ 5,143'.
RTD (5,220') @ 11:48am.
E-LOG.
[Superior Well Services]

DST #1: STALNAKER SS

Rotary Depth: 3,955' - 3,968'
Logger's Depth: 3,957' - 3,970'

Recovery: 1,550' Gas in Pipe
92' Gas & Water cut Mud (5%G,25%W,70%M)
486' Water
Total Fluid: 578'

Recovery Water: (80,000 ppm)
System Water: (4,000 ppm)

IFP: 128# - 213# / 30"
ISIP: 1,579# / 60"
FFP: 245# - 335# / 30"
FSIP: 1,569# / 60"
119 deg F
MH: 2,023# - 1,912#

IF: Strong Blow, BOB in 30 seconds.
ISI: Fair Blow, built back to 2 inch Blow.
FF: Fair Blow, BOB in 8 minutes.
FSI: Bleed Off, Surface Blow.

Reported Rw =
0.15 ohms @ 45 deg F

Recovery Water- Mud
Engineer: (125,000 ppm)
Trilobite Testing, Inc.
Pratt, KS.

DST #2: MISS

Rotary Depth: 4,566' - 4,704'
Logger's Depth: 4,565' - 4,703'

Recovery: 20P: Gas to Surface (12"). TSTM
4,202' Gas in Pipe
112' Gassy SI Oil cut Mud (5%G,1%O,,94%M)
238' Gassy Mud (5%G,95%M)
Total Fluid: 350'

Recovery Water: NA
System Water: (4,000 ppm)

IFP: 125# - 125# / 30"
ISIP: 1,627# / 60"
FFP: 157# - 164# / 60"
FSIP: 1,596# / 120"
121 deg F
MH: 2,281# - 2,296#

IF: Strong Blow, BOB in 2-1/2 minutes.
ISI: Bleed Off, Weak Surface Blow.
FF: Strong Blow, BOB immediate. GTS in 12 minute (TSTM).
FSI: Bleed Off, Weak Surface Blow.

Reported Rw = NA
Trilobite Testing, Inc.
Pratt, KS.

DST #3: MISS

Rotary Depth: 4,704' - 4,731'
Logger's Depth: 4,703' - 4,730'

Recovery: 20' Gassy Water cut Mud (5%G,39%W,56%M)
120' Mud cut Water (30%M,,70%W)
118' Water
Total Fluid: 258'

Recovery Water:
(125,000 ppm)
System Water: (7,000 ppm)

IFP: 75# - 80# / 30"
ISIP: 1,621# / 60"
FFP: 95# - 138# / 60"
FSIP: 1,773# / 120"
124 deg F
MH: 2,368# - 2,263#

IF: Fair Blow, built to 4-1/2 inches.
ISI: Bleed Off, No Blow.
FF: Weak Blow, built to 2 inches.
FSI: Bleed Off, No Blow.

Reported Rw =
0.13 ohms @ 44 deg F
Recovery Water- Mud
Engineer: (54,000 ppm)

HOLE DEVIATION (235' - 5,220')

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
235' /	--- 1.00	(Surafce Casing)					
1,502' /	--- 0.50						
2,066' /	--- 0.50						
2,515' /	--- 0.50						
3,055' /	--- 1.50						
3,278' /	--- 0.75						
3,817' /	--- 0.25						
3,911' /	--- 0.50						
3,968' /	--- 0.25	(DST #1)					
4,102' /	--- 1.00						
4,197' /	--- Bull's Eye						
4,704' /	--- 0.25	(DST #2)					
5,220' /	--- 1.75	(RTD)					

STRAP @ DST #1

Board: 3,975.32'
Strap: 3,976.69'
Diff: 1.37'

CONTRACTOR

H2 Drilling --- Rig #3

10,500 E. Berkeley Square Parkway, Suite 1000
Wichita, Kansas 67230
Office: (316) 636-2090

Rig #3 - (620) 388-1903

Toolpusher:
Randy - (620) 290-1672

Pump: EMSCO D-375
6" x 14" @ 60 SPM.
900 - 1,000 PSI @ Standpipe.

Above 4,100': 15M WOB @ 90/100 RPM.
After 4,100': 25M/30M WOB @ 80/85 RPM.

Drill Collars: 6-1/8" x 2.50" --- 537'. (83.3#/ft)
Dry Collar Weight: 44,903#
(@ 9.10ppg / Buoyancy Factor 0.863)
Bouyancy Collar Weight: 38,751#
Design Factor: 15%, therefore:
available WOB is 32,939#
Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
10 Mar 2011	14-3/4"	VAREL L-117	3 / 15's	0' / 235'	235'	3.25	72.3
20 Mar 2011	7-7/8"	VAREL HE-21	14 - 15 - 14	235' / 4,704	4,469'	111.25	40.2
27 Mar 2011	7-7/8"	VAREL HE-29	14 - 15 - 14	4,704' / 5,220'	516'	24.25	21.3

ROCK TYPES

POROSITY

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

LITHOLOGY

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Granite wash
	Congl
	Dol lmst
	Silty dol
	Calc dol
	Dol 2
	Dol
	Gyp
	Igne

	Lmst 2
	Lmst
	Meta
	Mrlst
	Salt
	Shale 3
	Shale 3
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Till
	Ss 2

MINERAL

	Mica
	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
	Copper
	Ooliticastic
	Ooloid
	Oolite
	Sucrosic
	Dark specks

STRINGER

	Calc dol
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Calc dol
	Sltstrg
	Ssstrg
	Chalk
	New symbol

SHOW

	Oil
	Spotted
	Ques
	Dead
	Gas
	Oil/gas
	Bed contact

ACCESSORIES

FOSSIL

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

	Pisolite
	Plant
	Strom

MINERAL

	Mica
	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
	Copper
	Ooliticastic
	Ooloid
	Oolite
	Sucrosic

	Dark specks
--	-------------

STRINGER

	Calc dol
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Calc dol
	Sltstrg
	Ssstrg
	Chalk
	New symbol

OTHER SYMBOLS

ACTIVITY

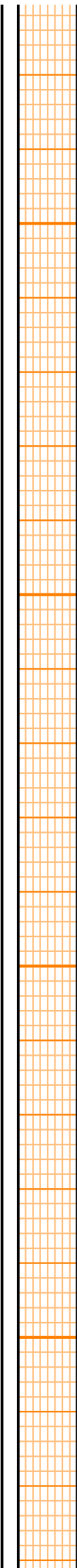
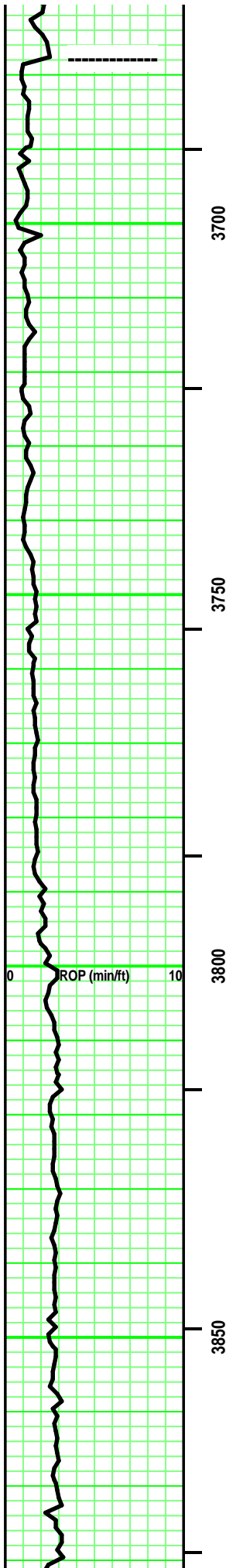
	Lost circluation
	Circulate for sample 2

	Circulate for samples
	Rtd
	Trip

EVENT

	Connection
	Rft

	Sidewall
--	----------



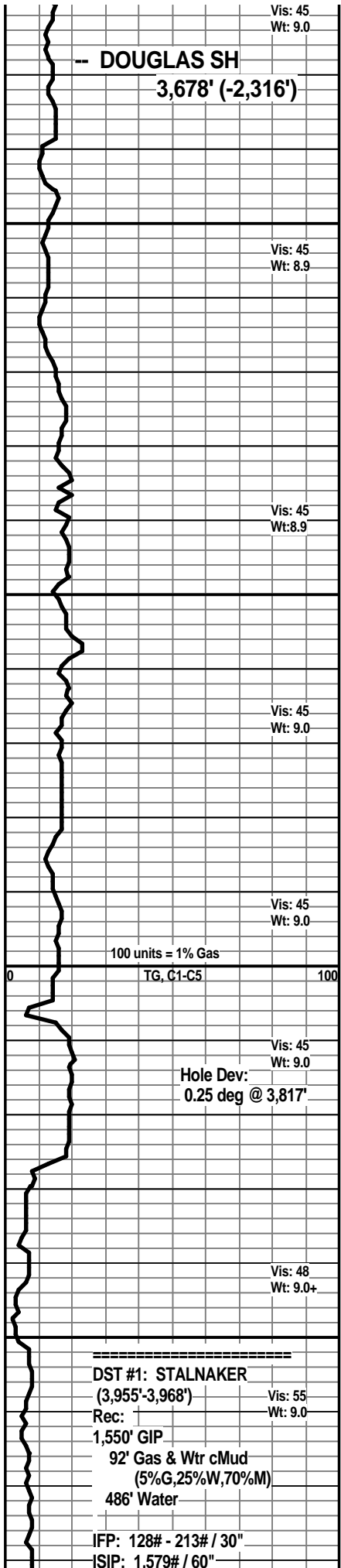
SH - Med/ Dark Gray. Sing. Massive. some LS streaks (Brown/Off White Mot. Micro-xln. xln & part por. Firm. No/ tr vis por.) Silt sized SR qtz grains/ sandy in part (interbedded/intermixed).

SH - Med/ Dark Gray. Sing. minute dark specks. Micaceous. Silty in part. Massive.

SH - Med/ Dark Gray. Sing. minute dark specks. Micaceous. Silty in part. Massive.

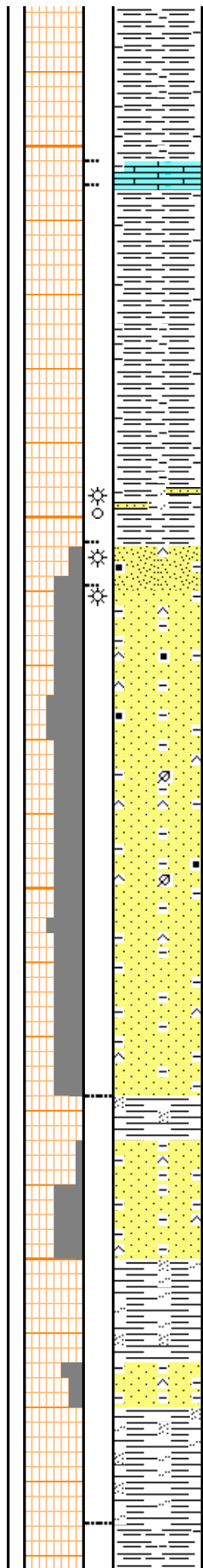
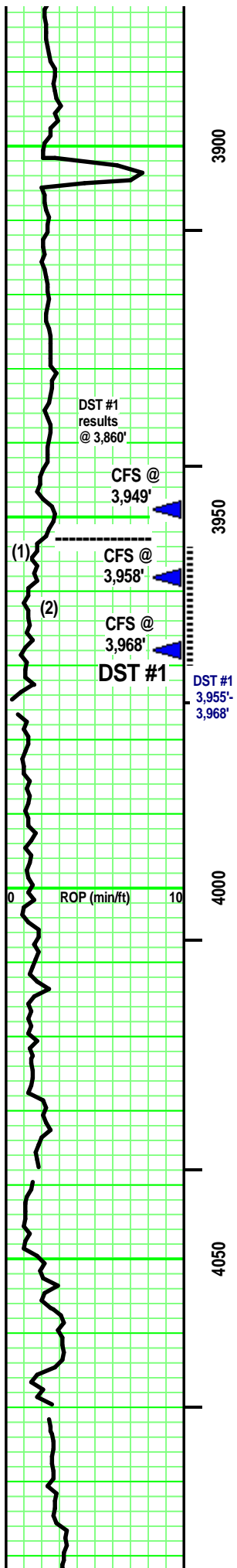
SH - Med/ Dark Gray. Sing. minute dark specks. Micaceous. tr Silty in part. Massive. Firm.

SH - Med/ Dark Gray. Sing. minute dark specks. Micaceous. tr Silty in part. Massive. Firm.



-- DOUGLAS SH
3,678' (-2,316')

DST #1: STALNAKER
(3,955'-3,968')



LS - Tan/Dark Tan. Sing. Crypto-/Micro-xln. xln por. tr Re-xln. Dense. No/ tr vis por.

SH - Med/ Dark Gray, Silver/ Greenish Gray. Sing. Soft. Massive. misc minute inclusions. tr silty in part. sandy stringer with depth, similiar to below.

-- STALNAKER SS 3,953' (-2,591')

SS (1) - Clear/ Lt Gray. Sing. Silt/ tr VF qtz grains. SA/SR. Hi sort / Mod sort. Mod sph. tr Vit/ mostly frosted luster. Hi argil/ shaly. tr minute dark specks/ some carb flecks. Si cement. Point/ some sutured grain contact. Tr/ Fair vis por. ? odor. few pcs: Spotted/ Uniform Yellow flouresence. On own, rare gas bubble. No oil. No stain. Weak Pos cut/ residual. Weak Pos acid/ residual.

SS (2) - Clear/ Lt Gray/ some Tan. Sing. Silt/ tr VF qtz grains. SA/SR. Hi sort / some Mod sort with depth. Mod sph. tr Vit/ mostly frosted luster. some argil/ shaly. tr minute dark specks/ some carb flecks. Si cement. Point/ some sutured grain contact. Tr/ mostly Fair vis por. ?/ Faint odor. some Spotted/ some Uniform Yellow flouresence. some Barren. On own, rare gas bubbles. No oil. No stain. Weak Pos/ Pos cut/ residual. Weak Pos/ Pos acid/ residual.

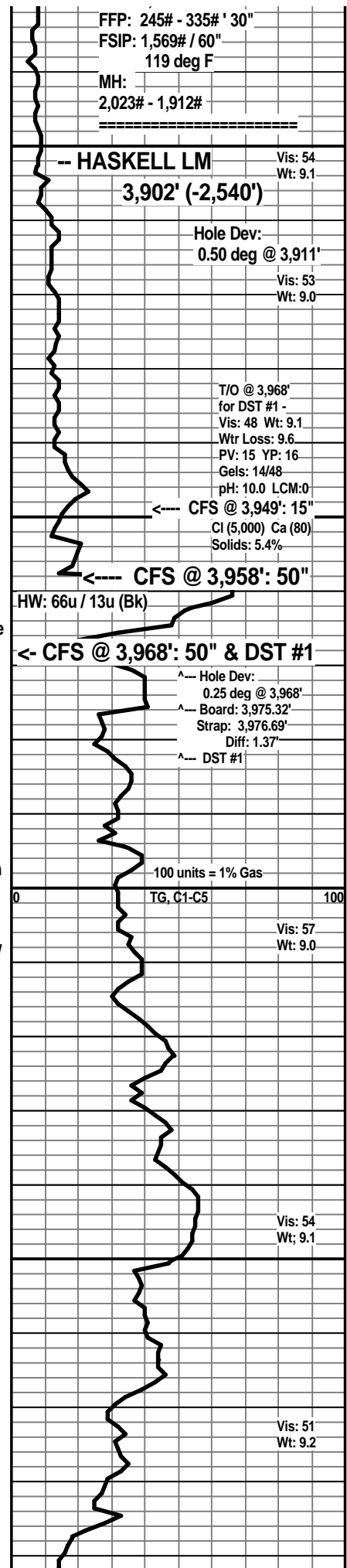
Barren with depth

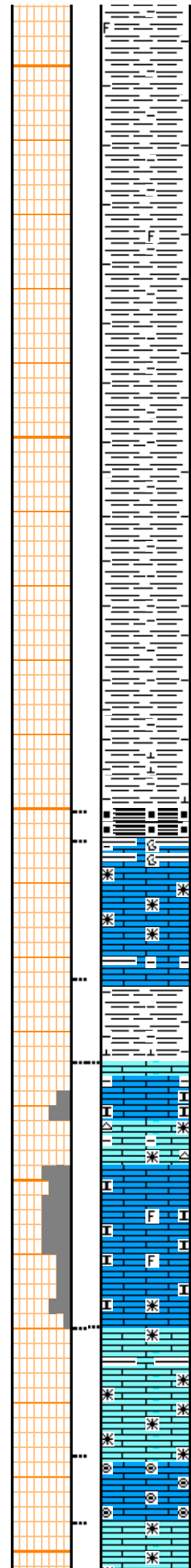
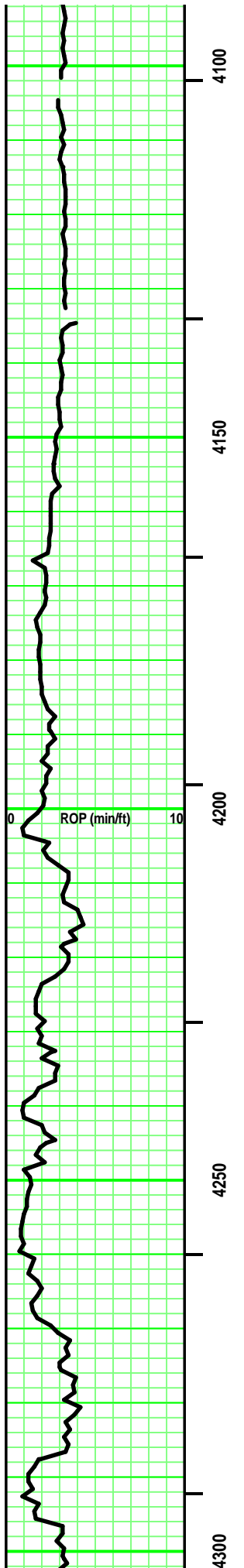
Interbedded SH & SS

SH - Med/ Dark Gray, Silvery Gray. Sing. sandy / silty in part. soft to partly Firm. misc inclusions (carb, dark specks)

SS - similiar to immediately above.

SH - Med/ Dark Gray, tr V Dark Gray. Sing. Massive. Firm. rare fossil frag/ clast.





SH - Med/ Dark Gray, tr V Dark Gray. Sing. Massive. Firm. rare fossil frag/ clast.

SH - Med/ Dark Gray, tr V Dark Gray. Sing. Massive. Firm. rare fossil frag/ clast.

Add: limy

LS - Grays/ Brown/ some Tan. Mot. Crypto-/ mostly Micro-xln. xln por argil in part. some Re-xln. tr ls frags. No/ tr vis por.

SH - Med/ Dark Gray. Sing. calc at depth. soft. tr Firm.

Interbedded LS's

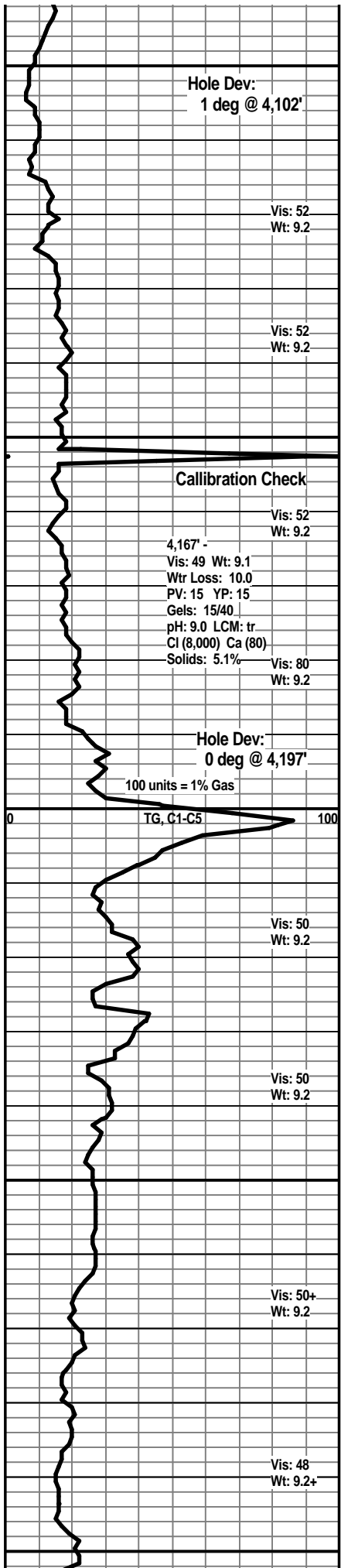
LS - Tans/ Off White/ some Lt Gray. Mottled. Micro-/ tr XF-xln. xln por. subchalky. tr argil. Friable. tr fossil frags. Tr/ Fair vis por.

LS - Tans/ tr Lt Gray. Sing. XF-/Micro-xln. xln por. some Re-xln. [tr CHERT - Tan/ Gray. Sing. Opaque. No tripolitic. No inclusions.] Firm. No/ tr vis por.

LS - Tan. Sing. Crypto-/ mostly Micro-xln. xln por. tr Re-xln. tr argil/ shaly stringer. Firm. No/ tr vis por.

LS - Off White/ Tan VF Oolitest. some clear/ Tan matrix. Opaque to semitransparent. Friable. Tr vis por.

LS - Tans/ some Off White, tr Lt Gray. mostly Sing/ some Mot. some Crypto-/ mostly Micro-xln &



Hole Dev:
1 deg @ 4,102'

Vis: 52
Wt: 9.2

Vis: 52
Wt: 9.2

Calibration Check

Vis: 52
Wt: 9.2

4,167' -
Vis: 49 Wt: 9.1
Wtr Loss: 10.0
PV: 15 YP: 15
Gels: 15/40
pH: 9.0 LCM: tr
Cl (8,000) Ca (80)
Solids: 5.1%

Vis: 80
Wt: 9.2

Hole Dev:
0 deg @ 4,197'

100 units = 1% Gas

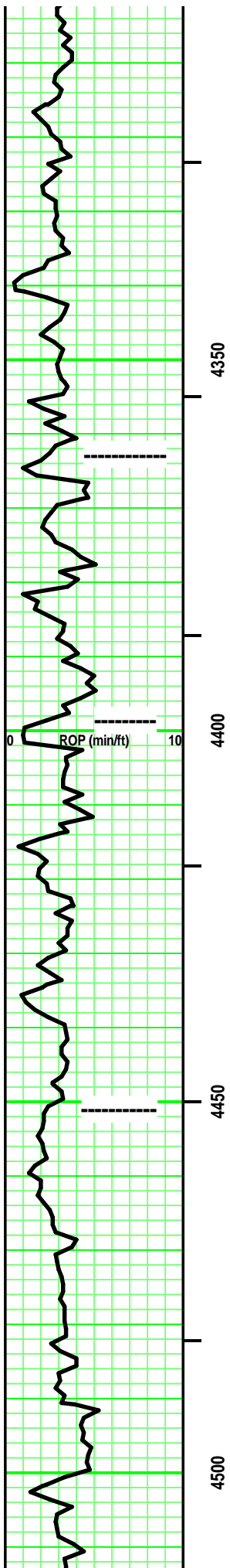
TG, C1-C5

Vis: 50
Wt: 9.2

Vis: 50
Wt: 9.2

Vis: 50+
Wt: 9.2

Vis: 48
Wt: 9.2+



XF-xln. xln por. some Re-xln. some argil in part. rare minute off white fossil frags. [some CHERT - Clear/Tan. Sing/ tr Mot. Opaque to semi-transparent. No inclusions. No tripolitic.] Firm. No/ tr vis por.

Add: SH stringer -Med/ Dark Gray. Sing. Firm.
 LS - Tan VF 'ghost' Micro-Oolite in subchalky matrix. Friable. No/ tr vis por.

LS - Off White/ some Tan. Sing. Micro-xln. xln por. tr Re-xln. Subchalky. partly Friable. tr, irregular Med Gray shale streaks. Tr vis por.

----- STARK SH 4,363' (-3,001')

SH - Black. Sing. Carb. Blocky.
 LS - Tan. Sing. Micro-xln. xln por. Firm. No/ tr vis por.

SH - Med/ Dark Gray. Sing. soft. Massive. tr
 LS - Off White/ some Tan. Sing. XF-/ Micro-xln. xln por. Subchalky/ marly in part. partly Friable. some interbedded Med Gray shale. No/ tr vis por.

Add: few pcs CHERT - Tan/Gray. Sing/ tr Mot. Opaque. No inclusions. No tripolitic.

----- Hushpuckney Sh 4,399' (-3,037')

SH - Black. Sing. Carb. Soft.
 LS - Lt Gray/ tr Brown/ Tan. Sing. Crypto-/ Micro-xln. xln por. Re-xln. some interbedded Lt Gray argil/ marl. [few pcs CHERT - similar to above.] mostly Firm. No/ tr vis por.

SH - Black, Carb. rare pyritic. partly fissile. partly soft.

LS - Tans/ some Off White & Grays. Sing/ tr Mot. XF-/ Micro-xln. xln por. some argil/ shaly in part. some Re-xln. Firm. No/ tr vis por.

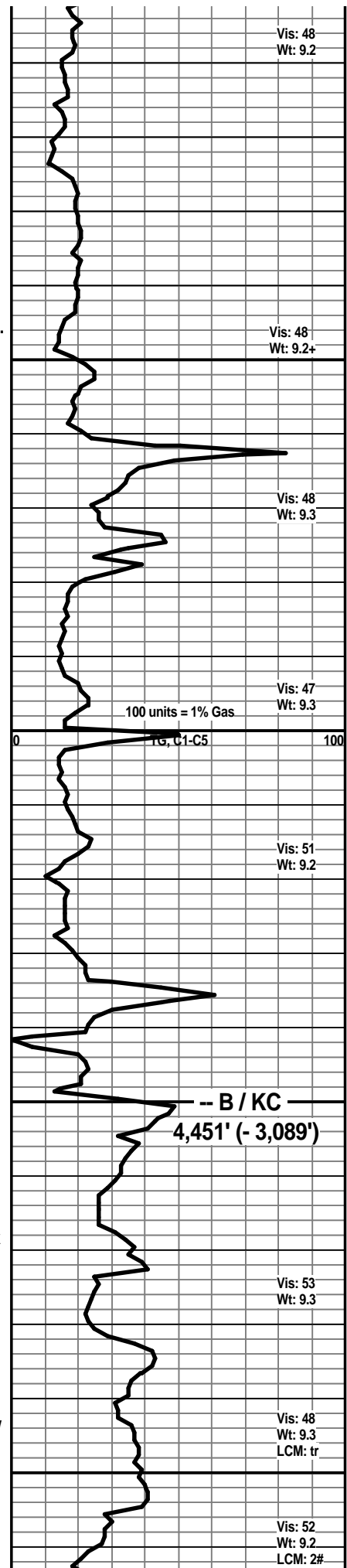
----- B / KC 4,451' (- 3,089')

Intermixed & interbedded SH & LS
 SH - Med/ Dark Grays, Black - carb. Sing. rare rubble.
 SH - Grays, Greenish Grays, Silverish Gray. Black & Carb. Sing. tr silty.
 LS - Tan/ Grays, rare Off White. Sing. Micro-/ tr crypto-xln. xln por. some Re-xln. some argil. Firm. No/ tr vis por.

LS - Tan/ Pale Lt Gray. Sing. Micro-/ Crypto-xln. xln por. Firm/ Dense. No vis por.

SH - Black. Carb Soft. at top. Grays. Sing with limy streaks with depth.

LS - Tans/ Grays. tr Off White. tr Sing/ mostly Mot. mostly Micro-xln. tr XF-xln. xln por. lots



Vis: 48
Wt: 9.2

Vis: 48
Wt: 9.2+

Vis: 48
Wt: 9.3

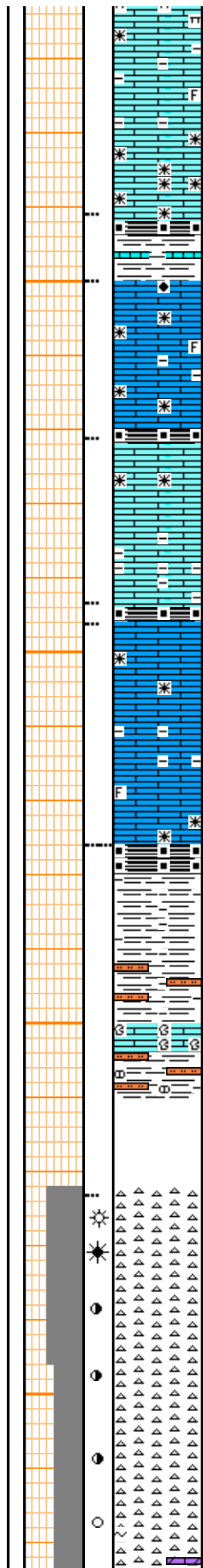
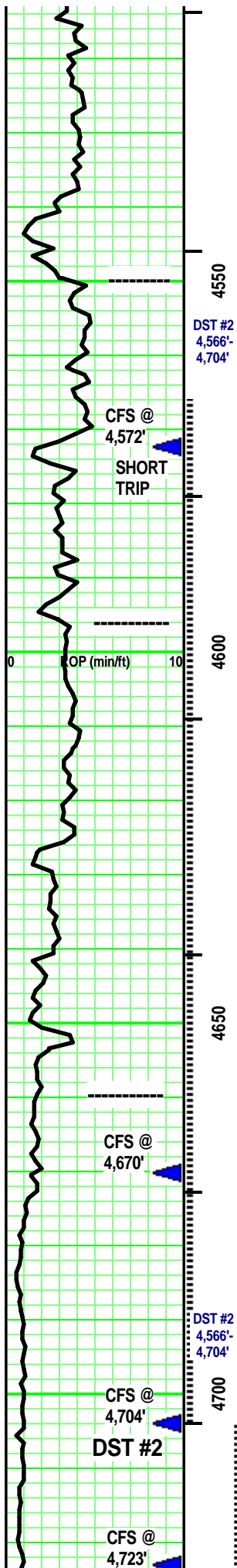
Vis: 47
Wt: 9.3

Vis: 51
Wt: 9.2

Vis: 53
Wt: 9.3

Vis: 48
Wt: 9.3
LCM: tr

Vis: 52
Wt: 9.2
LCM: 2#



Re-xln. some argil/shaly in part. some marl at top. rare fossil frag. mostly Firm. No/ tr vis por.

SH - Black. Carb Soft. at top. Grays. Sing with limy streaks with depth.

LS - Tans/ some Off White. Sing/ tr Mot. some Crypto-/ mostly Micro- & XF-xln. xln por. some Re-xln. tr fossil frags. [rare Micro-Ooloid. Tan. in Off Whitish Tan Matrix. No vis por. Re-xln.] mostly Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

LS - Tan/ some Lt & Med Gray. Sing/ some Mot. XF-/ Micro-xln. xln por. Re-xln. some argil/ shaly in part. mostly Firm. few pcs: subchalky. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

CHEROKEE GP 4,596' (-3,234')
Interbedded & Intermixed SH & LS

SH - Med/ Dark Gray, some Greenish Gray. some Black, carb, soft. tr pyritic. some limy streaks in part. tr marly in part with depth.

LS - Tans/ Lt & Med Gray, Med Gray with depth. Sing/ tr Mot. XF-/ Micro-xln. xln por. some Re-xln. argil in part. tr fossil frags. some, minute limy frags. mostly Firm. mostly No/ tr vis por.

Interbedded & Intermixed SH and Siltstone

SH - Black. Sing. Carb. Grays/ Purple/ Brown/ Greens/ Blue Green. Sing/ Mot. misc pellets/ frags.

Siltstone - Grays, some Greens & Blue green. Massive. misc inclusions of: limestone frags, carb flecks, tr sandy in part & tr marly with depth.

Rubble

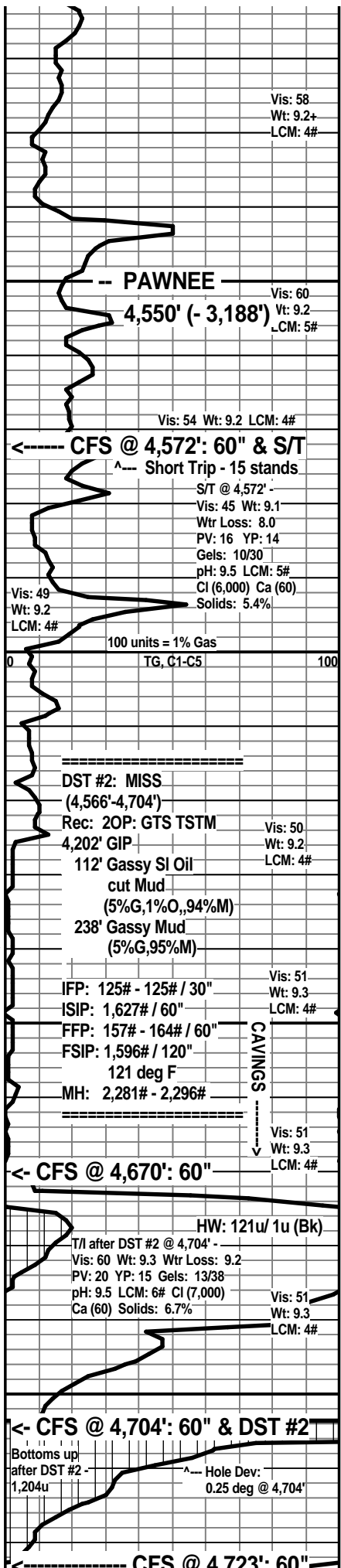
MISS 4,660' (-3,298')

CHERT - Off White/ some Silvery Gray/ rare Clear. Mot. mostly Opaque to semitransparent. some misc fossil frags/hash inclusions. Tr/ fair vis por with show.

Faint/ Fair odor. Spotted/ some Uniform Yellow fluorescence. No free oil/ rare minute gas bubbles. Stain as above (45% - 80%). Spotted/ some Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown or Black stain. rare limy dol or dol/ frags in part. Weak Pos/ Pos cut/ residual. Weak Pos/ Pos acid/ residual. few/ some Oil spots on wash water.

CHERT - similar to above. Add: tr, minute pyrite xtals. Stain 10% - 35% of chert.

Add: tr, minute Green, SA, glauc grains.



Vis: 58
Wt: 9.2+
LCM: 4#

PAWNEE
4,550' (-3,188')
Vis: 60
Wt: 9.2
LCM: 5#

Vis: 54 Wt: 9.2 LCM: 4#

CFS @ 4,572': 60" & S/T
Short Trip - 15 stands
S/T @ 4,572' -
Vis: 45 Wt: 9.1
Wtr Loss: 8.0
PV: 16 YP: 14
Gels: 10/30
pH: 9.5 LCM: 5#
Cl (6,000) Ca (60)
Solids: 5.4%

Vis: 49
Wt: 9.2
LCM: 4#

100 units = 1% Gas
TG, C1-C5

DST #2: MISS
(4,566'-4,704')
Rec: 20P: GTS TSTM
4,202' GIP
112' Gassy SI Oil
cut Mud
(5%G,1%O,,94%M)
238' Gassy Mud
(5%G,95%M)

Vis: 50
Wt: 9.2
LCM: 4#

IFP: 125# - 125# / 30"
ISIP: 1,627# / 60"
FFP: 157# - 164# / 60"
FSIP: 1,596# / 120"
121 deg F
MH: 2,281# - 2,296#

CAVINGS

Vis: 51
Wt: 9.3
LCM: 4#

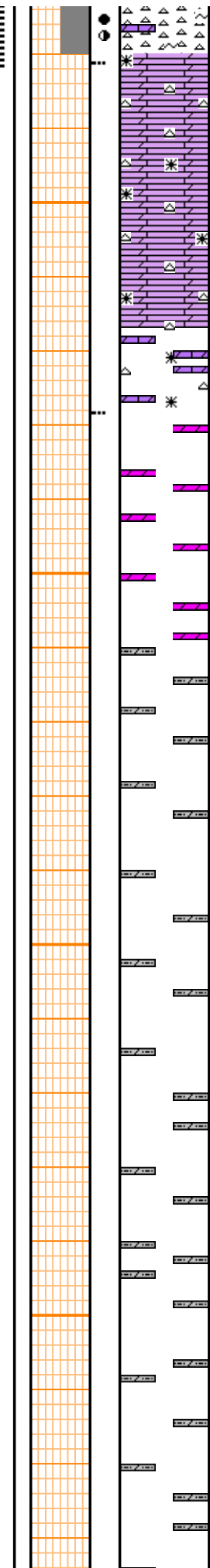
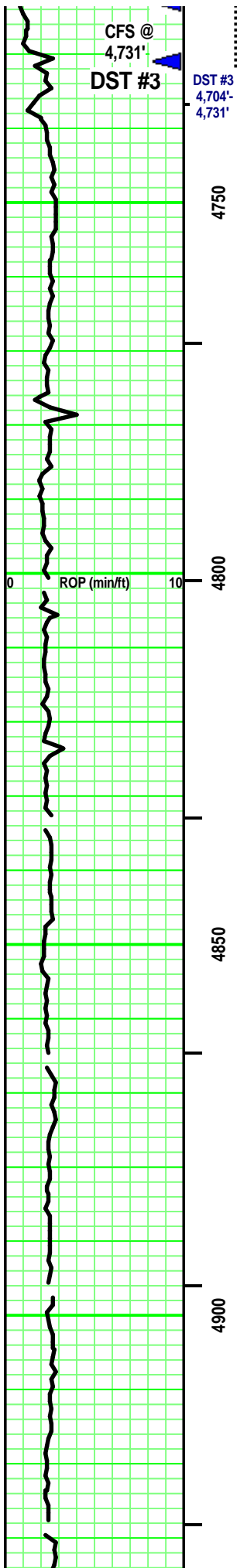
CFS @ 4,670': 60"

HW: 121u/ 1u (Bk)
T/ after DST #2 @ 4,704' -
Vis: 60 Wt: 9.3 Wtr Loss: 9.2
PV: 20 YP: 15 Gels: 13/38
pH: 9.5 LCM: 6# Cl (7,000)
Ca (60) Solids: 6.7%

Vis: 51
Wt: 9.3
LCM: 4#

CFS @ 4,704': 60" & DST #2
Bottoms up
after DST #2 -
1,204u
Hole Dev:
0.25 deg @ 4,704'

CFS @ 4,723': 60"



tr pcs: Dol (Calc) - similar to below.
tr pcs: Add: vuggy por. Dark Blackish Brown 'oil wet' facies.

Dolomite (Calc) - Tans/ Lt Gray. Sing. Re-xln. xln & tr sucrosic por. [CHERT - similar to immediately above.] Firm. some No/ mostly tr vis por.

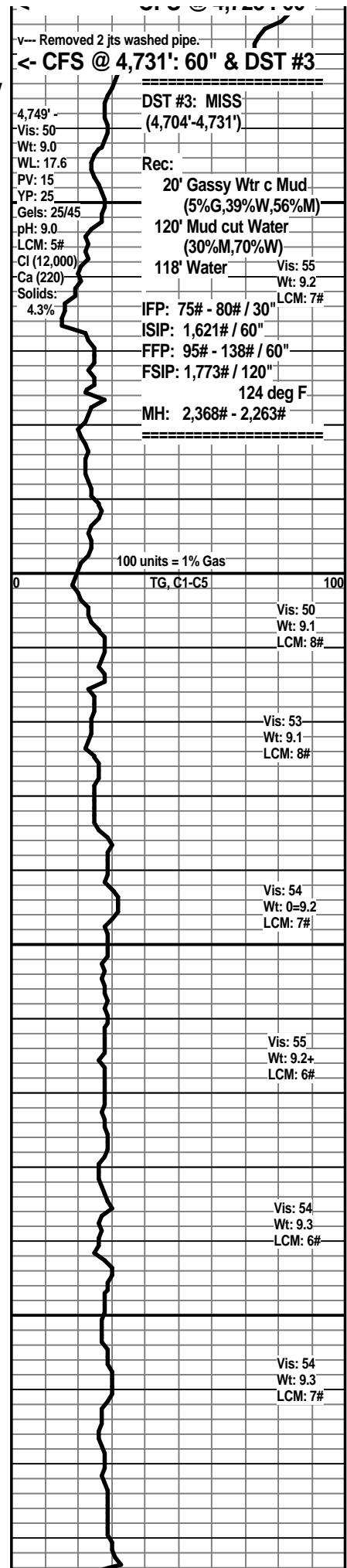
Dolomite (tr calc) - Tans/ some Lt & Med Gray. Sing. XF-/ Micro-xln. xln & rare sucrosic por. some Re-xln. silty in part. Massive. tr vis por.

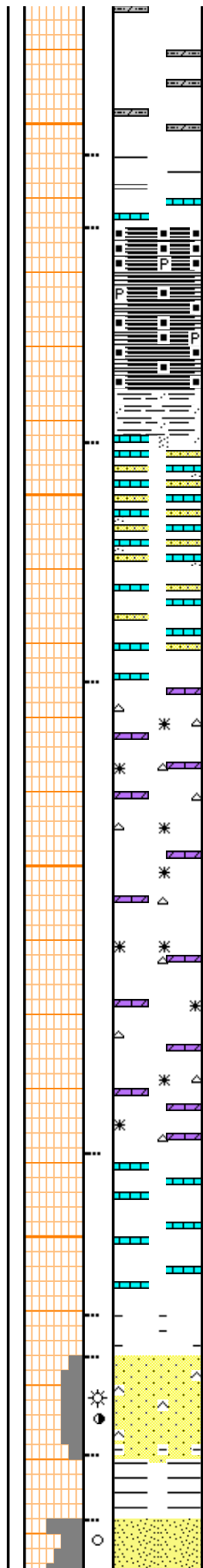
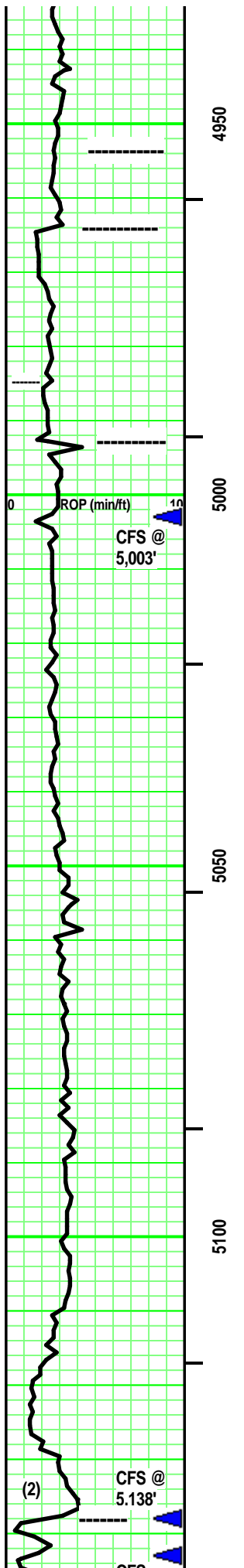
Dolomite - Med/ some Dark Gray. tr Lt Gray. - Sing. Micro-Re-xln. xln por. highly Silty. rare misc, minute inclusion. Massive. No/ tr vis por.

Dolomite - Med/ some Dark Gray. tr Lt Gray. - Sing. Micro-Re-xln. xln por. highly Silty. rare misc, minute inclusion. Massive. No/ tr vis por.

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----- KINDERHOOK SH 4,
SH - Dark Gray, Greenish Gray. Sing/ tr Mot. Firm.
tr calc stringers in part.

----- WOODFORD SH 4,964' (-3,602')
SH - Black. Sing. carb. (Brown hue scratch.)
Massive. some blocky. tr pyritic.

SH - Dark/ V Dark Gray. Sing. highly silt-sized qtz grain, SR,
grains 'floating' in shale matrix. some misc LS rubble.

----- VIOLA 4,993' (- 3,630')
LS (tr Dol) - Lt Gray/ Tan. Sing. Micro-xln. xln por.
some Re-xln. Random, minute black specks.
(interbedded near top: some VF, SR, vitreous, mod
sph, dissem, qtz grains in pyritized sh/lts.)
Massive. No/ tr vis por.

LS (tr Dol) - Tans/ Grays. Sing/ Mot. rare VF-/
mostly XF- & Micro-xln. xln por. some Re-xln. [
some CHERT - Tans/ Grays. Sing/ some Mot.
Opaque. No/ rare White inclusions. No tripolitic.]
tr/ some minute black specks in part. Firm. No/ tr
vis por.

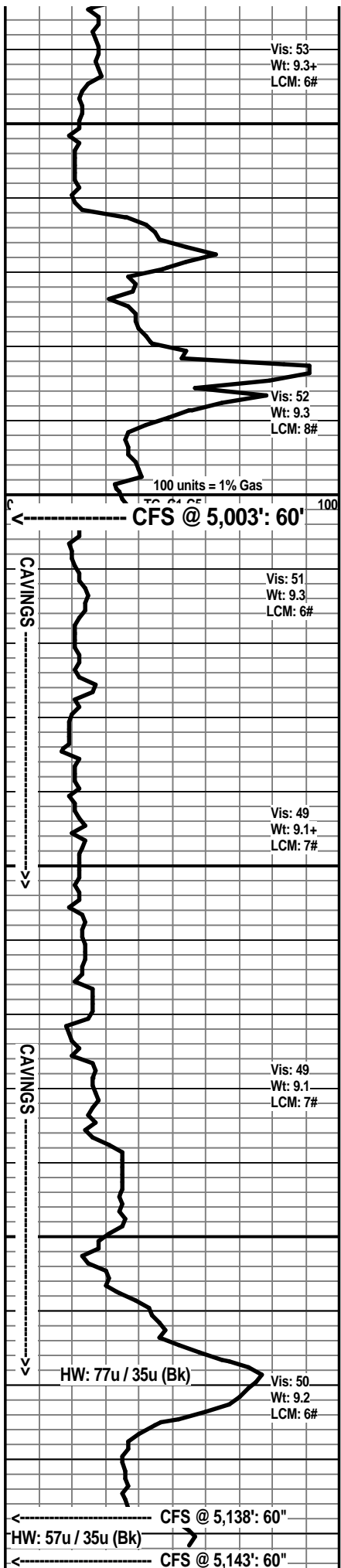
LS - Tans/ tr Lt Gray. Sing. Micro-xln. xln por. tr
subchalky in part. Massive. No/ tr vis por.

Add: SH - Green/ Grayish Green/ Dark Green. Sing.
frags/streaks. Highly Limy.

SS - Clear/ Lt & tr Med Gray. Mot. VF- tr silt sized qtz grains.
SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain
contact. tr sil cement. some Point/ mostly sutured grain
contact. tr argil in part, partly Friable. Fair/ good vis por. ?
odor. Spotted/ tr uniform Yellow fluorescence. rare, minute gas
bubble. No oil. tr, minute Med Brown stain. Weak Pos/ Pos
cut & residual. Weak Pos/ Pos acid & residual.

SH (2) - Green/ Greenish Gray. Sing. Firm. Massive. tr ductile.

----- WILCOX SS 5,138' (-3,776')
SS - Clear/ Off White. Mot. Mixture of Silt/ rare VF qtz grains.
SA/SR. Hi/ tr Mod sort. Mod sph. tr Vitreous/ mostly Frosted
luster. Point & Sutured grain contact. rare argil/ pyritic infill



Vis: 53
Wt: 9.3+
LCM: 6#

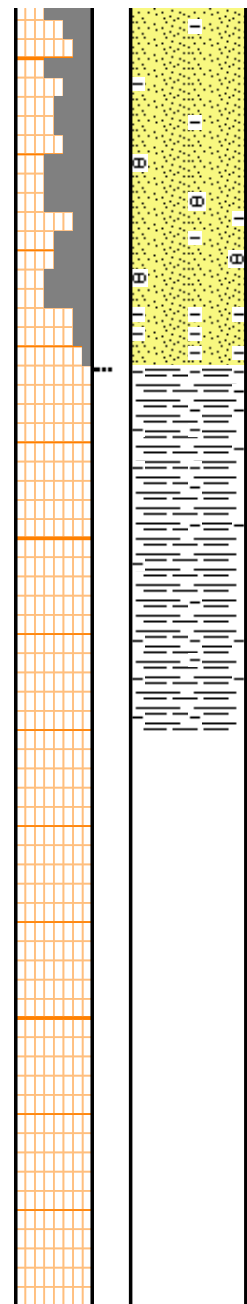
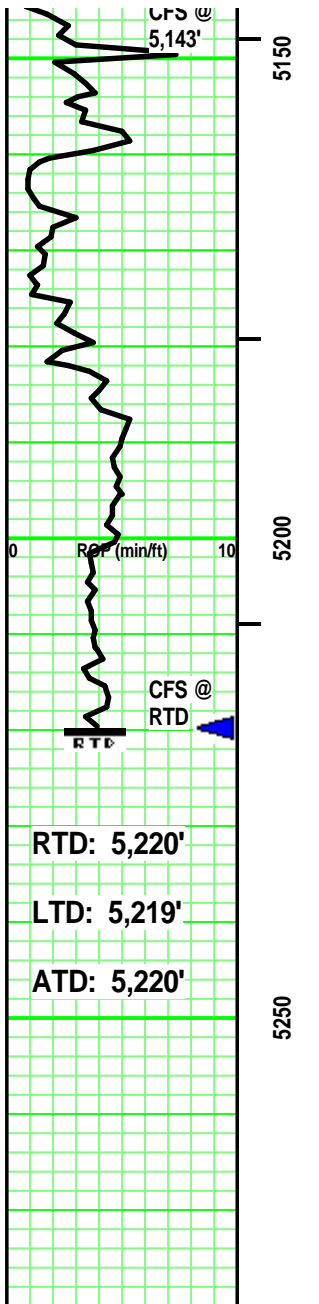
Vis: 52
Wt: 9.3
LCM: 8#

Vis: 51
Wt: 9.3
LCM: 6#

Vis: 49
Wt: 9.1+
LCM: 7#

Vis: 49
Wt: 9.1
LCM: 7#

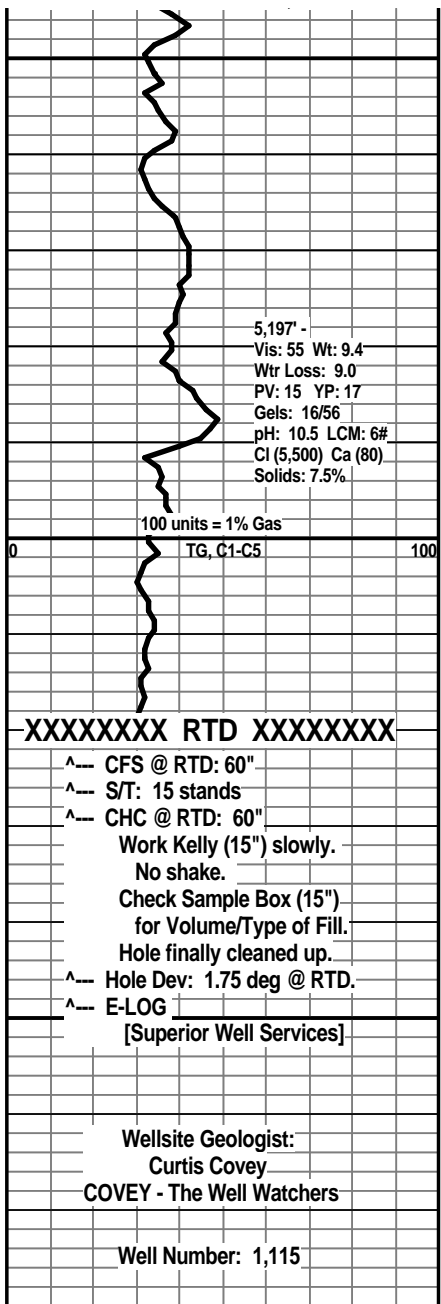
Vis: 50
Wt: 9.2
LCM: 6#



... Fair/ Good vis por.
 SS - Clear/ Grays/ Tan. Mot. VF-/ tr silt sized qtz grains.
 SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain
 contact. Calc/ tr sil cement. some/ highly sutured grain
 contact. some SR, VF obliterated argil grains in part. partly
 Friable. Fair/ Good vis por.
 Add: argil frags/ pellets. tr glauc grains.
 Interbedded SH & SS
 SH - Gray/ Greenish Gray. Sing. tr sandy.
 SS - similiar to above. misc brec frags.
 SH - Grays/ Green Gray/ some Pale Greenish Gray.
 Sing/ tr Mot. tr sandy stringers in part (similiar to
 immediately above). mixture of 'crumbly' / grainy /
 blocky / some waxy. Massive.

DIEL F #1
 820' FSL & 500' FWL 24-T34S-R11W
 Barber County, Kansas

 WOOLSEY OPERATING COMPANY
 Wichita, Kansas



RTD: 5,220'
 LTD: 5,219'
 ATD: 5,220'