



**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: \_\_\_\_\_



1059125

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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 (Specify) _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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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 06, 2011

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

Re: ACO1  
API 15-007-23659-00-00  
TUCKER B GU 3  
NE/4 Sec.11-34S-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. 040666

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
*McKaysville*

DATE <i>3-12-11</i>	SEC. <i>11</i>	TWP. <i>34S</i>	RANGE <i>11 W</i>	CALLED OUT	ON LOCATION	JOB START <i>2:00 am</i>	JOB FINISH <i>3:00 am</i>
LEASE <i>Tucker B6V</i>	WELL # <i>3</i>	LOCATION <i>Ger Lane Bllk top</i>			COUNTY <i>Barber</i>	STATE <i>Ks</i>	
OLD OR <del>NEW</del> (Circle one)		<i>E to Bettle Rd 1S, W/S</i>					

CONTRACTOR *Duke Rys #10*

TYPE OF JOB *Sw face*

HOLE SIZE *14 3/4* T.D. *223'*

CASING SIZE *10 3/4* DEPTH *218'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *300 psi* MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *20'*

PERFS.

DISPLACEMENT ~~21~~ *21 bbls head*

OWNER *Woolsey Operating*

CEMENT

AMOUNT ORDERED *240 sx class A + 3% cc + 2% of*

COMMON	<i>A 240 sx</i>	@ <i>15.45</i>	<i>3708.00</i>
POZMIX		@	
GEL	<i>5 sx</i>	@ <i>20.80</i>	<i>104.00</i>
CHLORIDE	<i>9 sx</i>	@ <i>58.20</i>	<i>523.80</i>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER *Math Thinesch*

# *269265* HELPER *Jason Thinesch*

BULK TRUCK

# *369* DRIVER *Raymond R.*

BULK TRUCK

# DRIVER

**WELL FILE**

Regulatory Correspondence  
Drill/Comp Workovers  
Tests / Meters Operations

HANDLING	<i>254</i>	@ <i>2.40</i>	<i>609.60</i>
MILEAGE	<i>254/15/.10</i>		<i>381.00</i>
			TOTAL <i>5326.40</i>

REMARKS:

*Bk circulation with RB*

*Pump 3 bbls head ahead*

*Mix 240sx cement*

*Disp 21 bbls slurry*

*Cement did circulate*

SERVICE

DEPTH OF JOB	<i>218'</i>		
PUMP TRUCK CHARGE		@ <i>1018.00</i>	
EXTRA FOOTAGE		@	
MILEAGE	<i>30</i>	@ <i>7.00</i>	<i>210.00</i>
MANIFOLD		@	

CHARGE TO: *Woolsey Operating*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL *1228.00*

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

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 ~~\_\_\_\_\_~~

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME *MIKE THARP*

SIGNATURE *[Signature]*

# ALLIED CEMENTING CO., LLC. 040125

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Med. Lodge

DATE <u>3-24-11</u>	SEC. <u>11</u>	TWP. <u>34s</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00am</u>	JOB FINISH <u>3:00am</u>
LEASE <u>Tucker B64</u>	WELL # <u>3</u>		LOCATION <u>Gerlone Blk top</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			<u>7 E. 15, Winto</u>				

CONTRACTOR <u>OKER #10</u>	OWNER <u>Woodsey Operating</u>
TYPE OF JOB <u>production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>5095'</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4950'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42'</u>
CEMENT LEFT IN CSG. <u>42'</u>	
PERFS.	
DISPLACEMENT <u>118 bbls 2% kcl</u>	
EQUIPMENT	
PUMP TRUCK # <u>369/265</u>	CEMENTER <u>Matt Thmesch</u>
BULK TRUCK # <u>364</u>	HELPER <u>Jason Thmesch</u>
BULK TRUCK #	DRIVER <u>Bobby Whiteside</u>
BULK TRUCK #	DRIVER

CEMENT			
AMOUNT ORDERED	<u>90x 6s: 40: 4 1/2 gal</u>		
	<u>150 sx class A + 10% salt + 10% salt + 6# flo seal</u>		
	<u>+ .8% fl-160 + 4# flo seal</u>		
COMMON Class A	<u>5 1/2</u>	@ <u>15.45</u>	<u>834.30</u>
POZMIX	<u>36sx</u>	@ <u>8.00</u>	<u>288.00</u>
GEL	<u>35x</u>	@ <u>20.80</u>	<u>728.00</u>
CHLORIDE	@		
ASC	@		
Class H	<u>150sx</u>	@ <u>16.75</u>	<u>2512.50</u>
gyp seal	<u>15sx</u>	@ <u>29.20</u>	<u>438.00</u>
Salt	<u>175x</u>	@ <u>12.00</u>	<u>2100.00</u>
Kalseal	<u>900#</u>	@ <u>.89</u>	<u>801.00</u>
FL-160	<u>112#</u>	@ <u>13.30</u>	<u>1489.60</u>
Flo seal	<u>37#</u>	@ <u>2.50</u>	<u>92.50</u>
Clapno	<u>13gal</u>	@ <u>31.25</u>	<u>406.25</u>
	@		
HANDLING	<u>298</u>	@ <u>2.40</u>	<u>715.20</u>
MILEAGE	<u>298/15/1.10</u>		<u>447.00</u>
			<u>TOTAL 8290.75</u>

REMARKS:

Brk circ with ris pump ball through  
mix 30 sx for Rathole mix 20 sx to crase hole  
mix 40 sx scavenger mix 150 sx cement shut dam.  
wash pump + lines. Release plug 43.0 118 bbls 2% kcl  
bump plug 800psi to 1500 psi

MAY 02 2011 SERVICE

DEPTH OF JOB	<u>4950'</u>		
PUMP TRUCK CHARGE			<u>2092.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>15</u>	@ <u>7.00</u>	<u>105.00</u>
MANIFOLD	<u>1</u>	@ <u>100.00</u>	<u>100.00</u>
	@		
	@		
	@		
	@		
			<u>TOTAL 2297.00</u>

CHARGE TO: Woodsey Operating  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

5 1/2	PLUG & FLOAT EQUIPMENT		
1-AFY Guide shoe			<u>214.20</u>
1- Latch down plug	@		<u>163.00</u>
12- turbo hzs	@ <u>40.60</u>		<u>487.20</u>
20- scratchers	@ <u>23.94</u>		<u>478.80</u>
	@		
	@		
	@		
	@		
			<u>TOTAL 1344.00</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 \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS \_\_\_\_\_

PRINTED NAME MIKE THARP  
SIGNATURE [Signature]

~~\_\_\_\_\_~~



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Woolsey Operating Co  
125 N Market Ste 1000  
Wichita, KS 67202  
ATTN: Curtis Covey

**Tucker "GU" B #3**  
**11-34S-11W Barber**  
Job Ticket: 041394 **DST#: 1**  
Test Start: 2011.03.19 @ 17:09:49

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:14:34  
Time Test Ended: 03:15:45  
Interval: **4496.00 ft (KB) To 4592.00 ft (KB) (TVD)**  
Total Depth: 4592.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Leal Cason  
Unit No: 45  
Reference Elevations: 1402.00 ft (KB)  
1391.00 ft (CF)  
KB to GR/CF: 11.00 ft

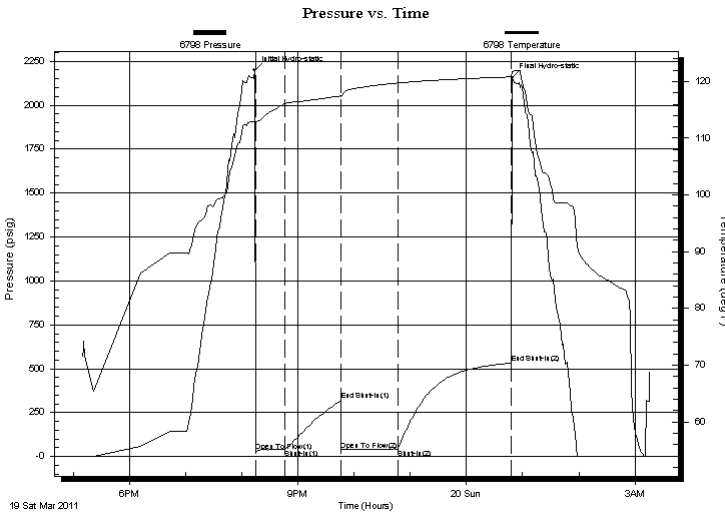
## Serial #: 6798

Inside

Press @ Run Depth: 43.90 psig @ 4497.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.03.19 End Date: 2011.03.20 Last Calib.: 2011.03.20  
Start Time: 17:09:50 End Time: 03:15:45 Time On Btm: 2011.03.19 @ 20:13:19  
Time Off Btm: 2011.03.20 @ 00:48:49

**TEST COMMENT:** IF: Fair Blow , Built to 8 inches  
IS: Bled Off , 1 inch Blow back  
FF: Strong Blow , BOB in 30 seconds  
FS: Bled Off , No Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.15	112.84	Initial Hydro-static
2	32.71	112.32	Open To Flow (1)
32	40.71	116.06	Shut-In(1)
93	319.72	117.46	End Shut-In(1)
93	35.38	117.35	Open To Flow (2)
154	43.90	119.73	Shut-In(2)
275	533.32	120.83	End Shut-In(2)
276	2155.96	121.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	792 Feet GIP	0.00
45.00	GCM 5%G 95%M	0.22

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Woolsey Operating Co

**Tucker "GU" B #3**

125 N Market Ste 1000  
Wichita, KS 67202

**11-34S-11W Barber**

Job Ticket: 041394

**DST#: 1**

ATTN: Curtis Covey

Test Start: 2011.03.19 @ 17:09:49

## 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: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	792 Feet GIP	0.000
45.00	GCM 5%G 95%M	0.221

Total Length: 45.00 ft      Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

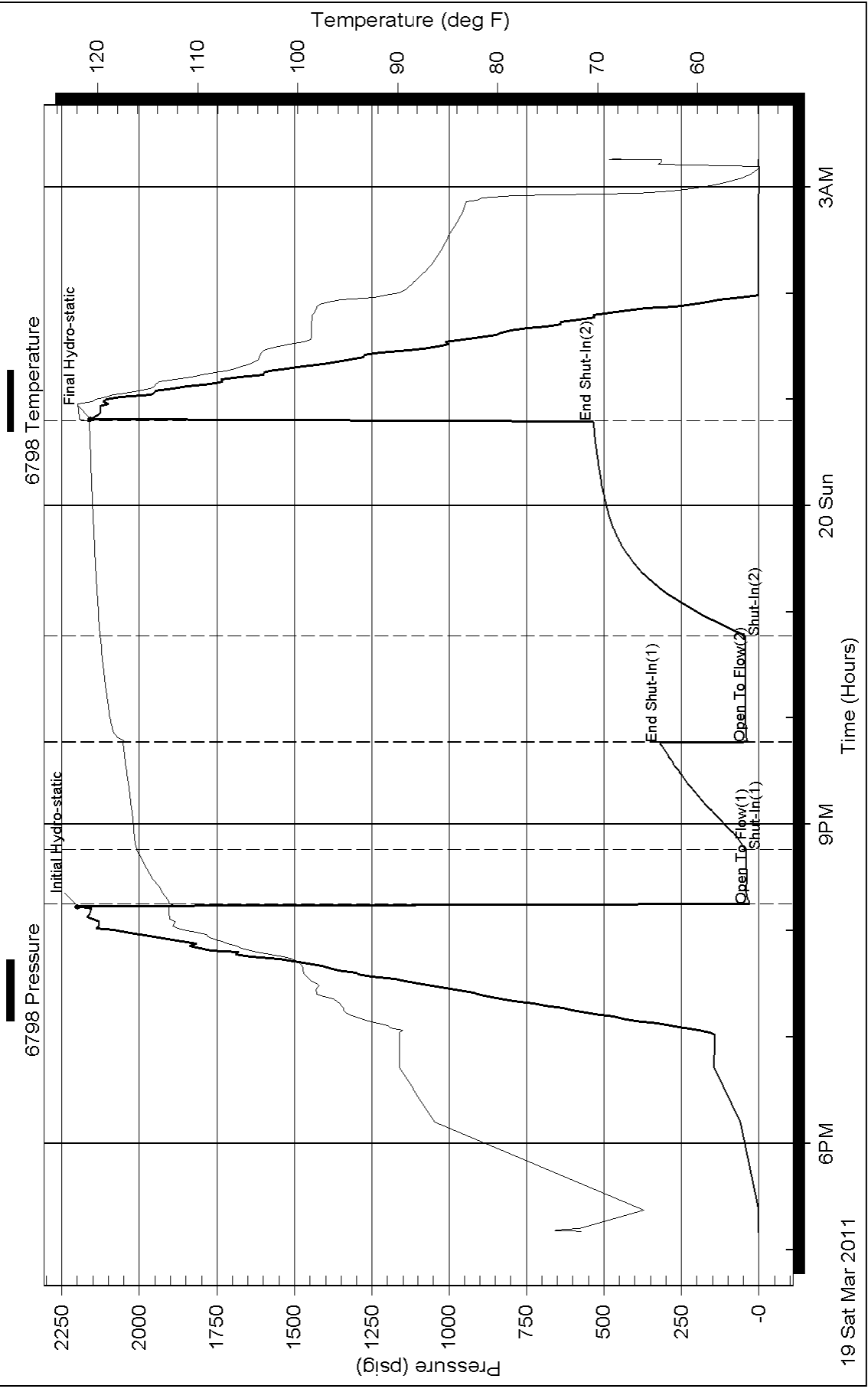
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Woolsey Operating Co  
125 N Market Ste 1000  
Wichita, KS 67202  
ATTN: Curtis Covey

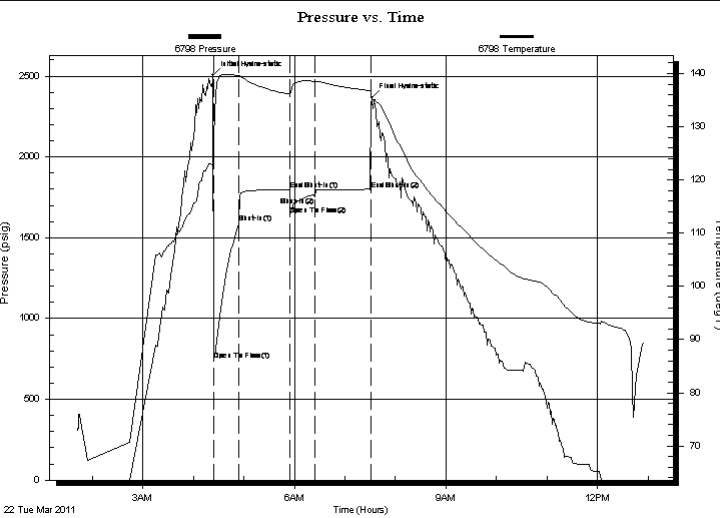
**Tucker "GU" B #3**  
**11-34S-11W Barber**  
Job Ticket: 041395 **DST#: 2**  
Test Start: 2011.03.22 @ 01:42:19

## GENERAL INFORMATION:

Formation: **Wilcox sandstone**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:24:04  
Time Test Ended: 12:56:49  
Interval: **4950.00 ft (KB) To 4990.00 ft (KB) (TVD)**  
Total Depth: 4990.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Leal Cason  
Unit No: 45  
Reference Elevations: 1402.00 ft (KB)  
1391.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6798 Inside**  
Press @ Run Depth: 1755.89 psig @ 4951.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.03.22 End Date: 2011.03.22 Last Calib.: 2011.03.22  
Start Time: 01:42:20 End Time: 12:56:49 Time On Btm: 2011.03.22 @ 04:23:19  
Time Off Btm: 2011.03.22 @ 07:32:04

**TEST COMMENT:** IF: Strong Blow , BOB in 1 minute  
IS: Bled Off, Weak Surface Blow back  
FF: Strong Blow , BOB in 1 minute  
FS: Bled Off, Weak Surface Blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2504.57	122.88	Initial Hydro-static
1	740.11	127.93	Open To Flow (1)
31	1591.27	139.55	Shut-In(1)
92	1797.83	136.09	End Shut-In(1)
92	1638.93	136.05	Open To Flow (2)
122	1755.89	138.51	Shut-In(2)
187	1799.38	136.75	End Shut-In(2)
189	2368.00	135.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2358.00	GSY Water 5%G 95%W	30.56
930.00	GSY MCW 12%G 5%M 83%W	13.05
279.00	GSY WCM 30%G 35%W 35%M	3.91
153.00	GSY WCM 10%G 20%W 70%M	2.15
0.00	490 feet GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Woolsey Operating Co

**Tucker "GU" B #3**

125 N Market Ste 1000  
Wichita, KS 67202

**11-34S-11W Barber**

Job Ticket: 041395

**DST#: 2**

ATTN: Curtis Covey

Test Start: 2011.03.22 @ 01:42:19

### 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:

94000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2358.00	GSY Water 5%G 95%W	30.562
930.00	GSY MCW 12%G 5%M 83%W	13.045
279.00	GSY WCM 30%G 35%W 35%M	3.914
153.00	GSY WCM 10%G 20%W 70%M	2.146
0.00	490 feet GIP	0.000

Total Length: 3720.00 ft

Total Volume: 49.667 bbl

Num Fluid Samples: 0

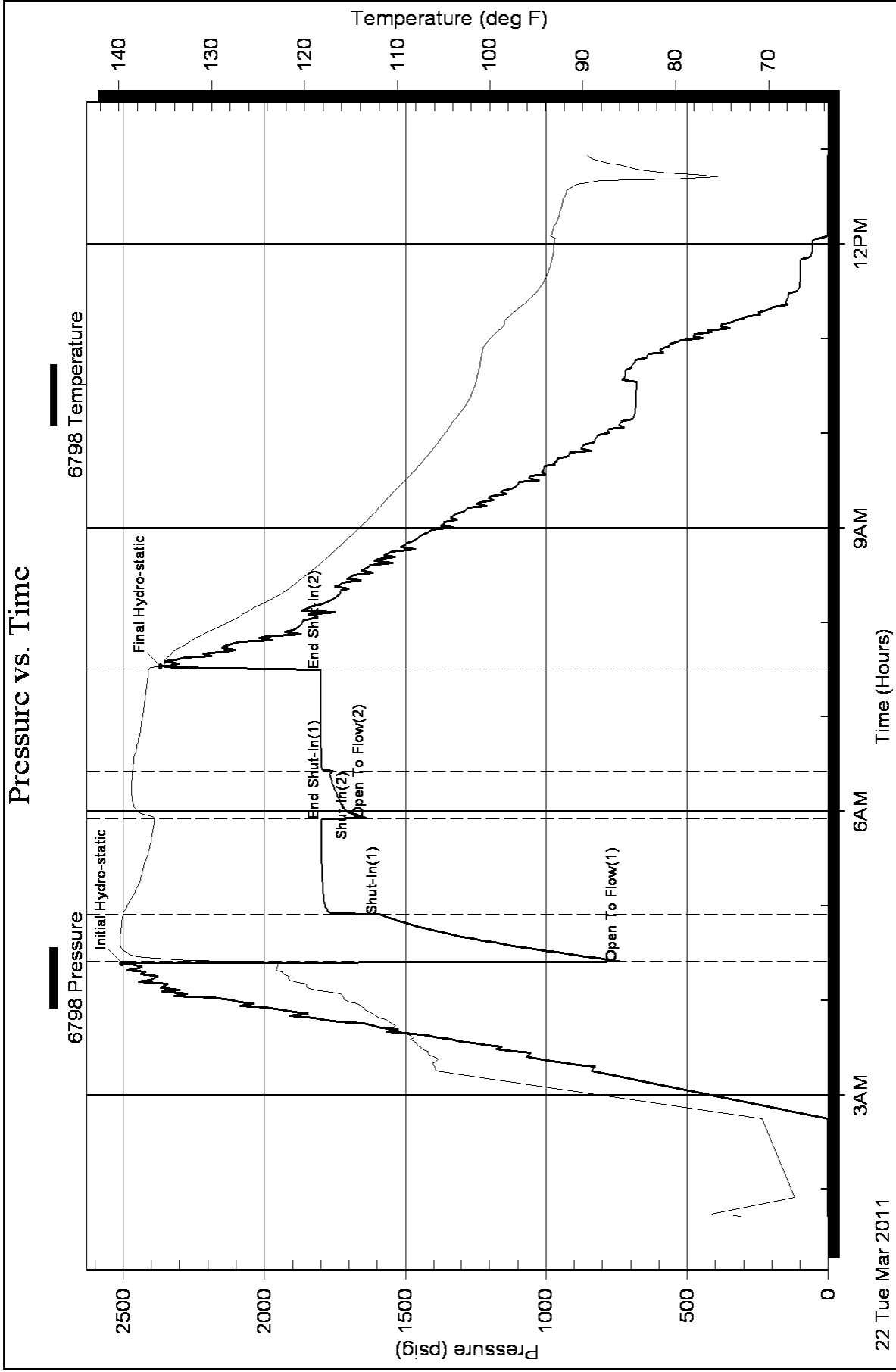
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# Covey

## The Well Watchers

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

Well Name: TUCKER B GU 3  
Location: Section 11 - Township 34 South - Range 11 West  
License Number: 15-007-23,659. 0000 Region: Barber County, KS.  
Spud Date: 11 March 2011 Drilling Completed: 23 March 2011  
Surface Coordinates: 660' FNL & 660' FEL  
(C NE NE)  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1,391' K.B. Elevation (ft): 1,402'  
Logged Interval (ft): 4,400' To: 5,090' Total Depth (ft): 5,090'  
Formation: Kansas City Group -----> 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

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### GEOLOGIST

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### FORMATION TOPS

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Stark SH .....	4,314' (-2,912') .....	4,315' (-2,913')
Hushpuckney SH .....	4,347' (-2,945') .....	4,346' (-2,944')
B / KC .....	4,390' (-2,988') .....	4,390' (-2,988')
Pawnee LS .....	4,490' (-3,088') .....	4,490' (-3,088')
Cherokee Gp .....	4,537' (-3,135') .....	4,538' (-3,136')
Mississippian .....	4,563' (-3,161') .....	4,566' (-3,164')
Kinderhook Sh .....	4,752' (-3,350') .....	4,750' (-3,348')
Woodford Sh .....	4,830' (-3,428') .....	4,832' (-3,430')
Viola .....	4,867' (-3,468') .....	4,870' (-3,468')
Wilcox SS .....	4,975' (-3,573') .....	4,976' (-3,574')

RTD: 5,090' LTD: 5,092' ATD: 5,092'

E-log is 0' - 2' low to rotary sample depth.

Loggers:  
Superior Well Services  
Hays, Kansas

14-3/4" Hole

7-7/8" Hole

7-7/8" Hole

11 Mar --- Spud @ 7:30pm.  
 12 --- Drill to 223'.  
 Run 10-3/4" casing.  
 Set casing @ 218'.  
 Cemented w/ 240 sx Class A  
 (2% Gel + 3% CC). [Allied]  
 Cement did circulate.  
 Plug down @ 9:45pm.  
 WOC.

12 Mar --- Under surface casing @ 3:30pm..  
 13 --- 7am @ 623'.  
 14 --- 7am @ 1,735'.  
 15 --- 7am @ 2,470'.  
 16 --- 7am @ 3,200'.  
 Displaced Mud @ 3,371'.  
 17 --- 7am @ 3,615'.  
 18 --- 7am @ 4,214'.  
 19 --- S/T: 15 stands @ 4,510'.  
 R/R Gear Chain.  
 7am @ 4,510'.  
 Resumed Drilling @ 7:03am.  
 DST #1: MISS (4,496'-4,492')

20 Mar --- Resumed Drilling @ 6:15am.  
 7am @ 4,600'.  
 21 --- 7am @ 4,888'. Start & ....  
 22 --- Finish DST #2: Wilcox SS  
 (4,950'- 4,990').  
 7am @ 4,990'.  
 Resumed Drilling @ 5:35pm.  
 23 --- RTD (5,090') @ 3:22am.  
 Prep hole.  
 E-LOG.  
 [Superior Well Services]

DST #1: MISS

Rotary Depth: 4,496'-4,592'  
 Logger's Depth: 4,498' - 4,594'

Recovery: 792' Gas in Pipe  
 45' Gas cut Mud (5%G,95%M)

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

Total Fluid: 45'

Reported Rw = NA

IFP: 33# - 41# / 30"  
 ISIP: 320# / 60"  
 FFP: 35# - 44# ' 60"  
 FSIP: 533# / 120"  
 121 deg F  
 MH: 2,198# - 2,156#

IF: Fair Blow, built to 8 inch Blow in 30 minutes.  
 ISI: Bleed Off, built back to 1 inch Blow.  
 FF: Strong Blow, BOB in 30 seconds.  
 FSI: Bleed Off, No Blow.

Trilobite Testing, Inc.  
 Pratt, KS.

DST #2 - WILCOX

Rotary Depth: 4,950'-4,990')  
 Logger's Depth: 4,952' - 4,992'

Recovery: 490' Gas in Pipe  
 153' Gassy Water cut Mud (10%G,20%W,70%M)  
 279' Gassy Water cut Mud (30%G,35%W,35%M)  
 930' Gassy Mud cut Water (12%G,5%M,83%W)  
 2,358' Gassy Water (5%G,95%W)

Recovery Water: (94,000 ppm)  
 System Water: (4,000 ppm)

Total Fluid: 3,720'

Reported Rw =  
 0.08 ohms @ 75 deg F

IFP: 740# - 1,591# / 30"  
 ISIP: 1,798# / 60"  
 FFP: 1,639# -1,756# ' 30"  
 FSIP: 1,799# / 60"  
 136 deg F  
 MH: 2,504# - 2,368#

IF: Strong Blow, BOB in 30 minutes.  
 ISI: Bleed Off, Weak Surface Blow.  
 FF: Strong Blow, BOB in 1 minute.  
 FSI: Bleed Off, Weak Surface Blow.

Trilobite Testing, Inc.  
 Pratt, KS.

HOLE DEVIATION (223' - 5,090')

DEPTH / TVD	--- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
223' /	--- 0.50	(Surface Casing)					
1,180' /	--- 0.50						
1,715' /	--- 0.50						
2,218' /	--- 0.75						
2,747' /	--- 0.50						
3,245' /	--- 0.50						
3,713' /	--- 0.75						
4,592' /	--- 0.50	(DST #1)					
4,990' /	--- 0.75	(DST #2)					
5,090' /	--- 0.75	(RTD)					

## BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
11 Mar 2011	14-3/4"	VAREL L-117	3 / 15's	0' / 223'	223'	4.00	55.8
12 Mar 2011	7-7/8"	VAREL HE-21	15 - 15 - 15	223' / 4,592'	4,369'	104.00	42.0
20 Mar 2011	7-7/8"	VAREL HE-29	15 - 15 - 15	4,592' / 4,990'	398'	31.25	12.7
22 Mar 2011	7-7/8"	VAREL HE-21	15 - 15 - 15	4,990' / 5,090'	100'	9.75	10.3

## 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
- Breclrag
- 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

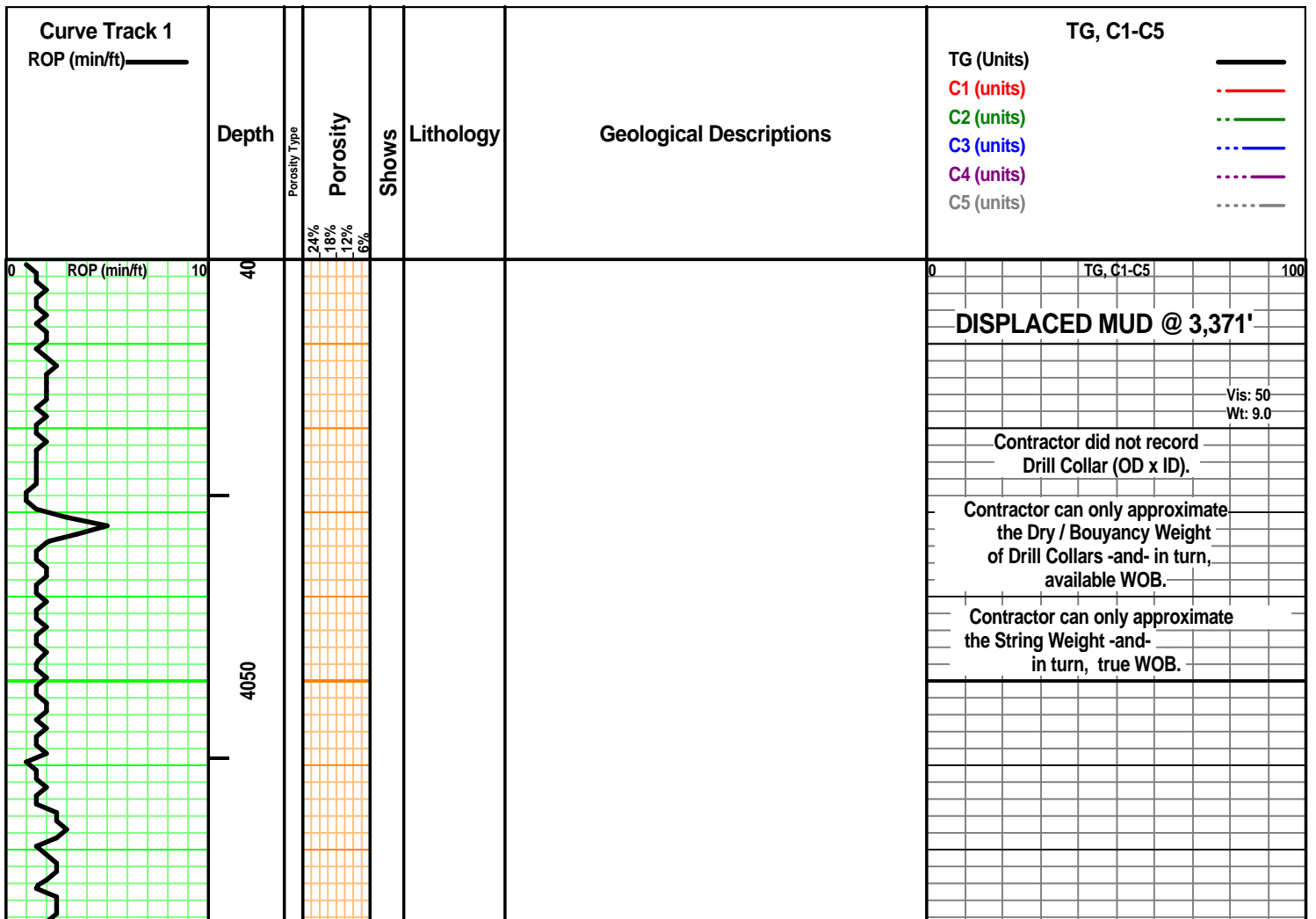
- Lost circulation
- Circulate for sample 2

- Circulate for samples
- Rtd
- Trip

#### EVENT

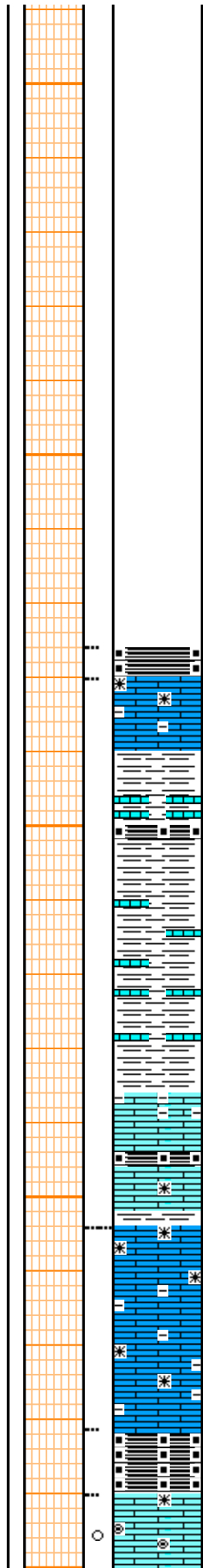
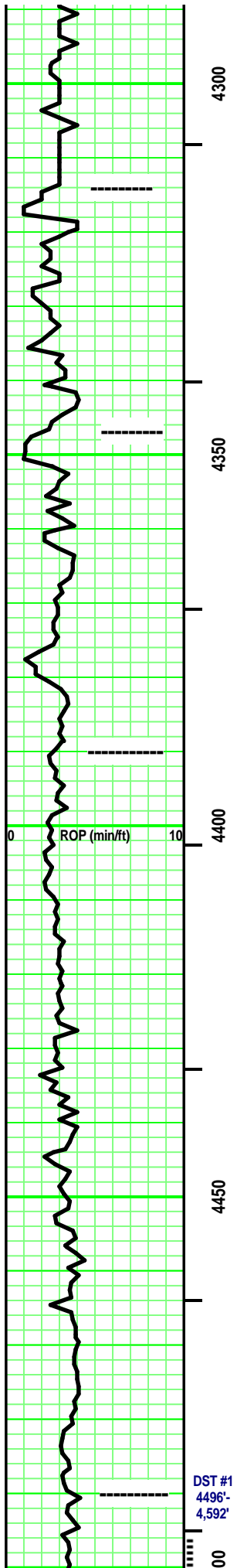
- Connection
- Rft

- Sidewall









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

LS - Tans/ tr 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 4,390' (-2,988')**

Intermixed & interbedded SH & LS

SH - Med/ Dark Grays, Black - carb. Sing. some Ls interbedding / rare rubble.

LS - Tan/ Grays, rare Off White. Sing. Micro- tr crypto-xln. xln por. some Re-xln. some argil. Firm. No/ tr vis por.

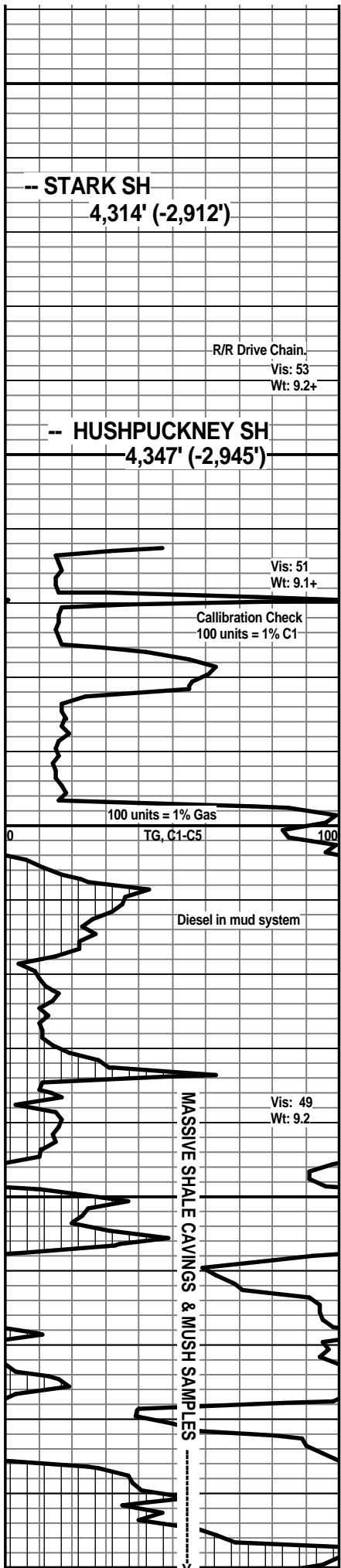
SH - Grays, Greenish Grays, Silverish Gray. Black & Carb. Sing. tr silty.

few LS - Tans/ Grays. tr Sing/ mostly Mot. mostly Micro-xln, tr XF-xln. xln por. tr Re-xln. some argil/shaly in part. Firm. No/ tr vis por.

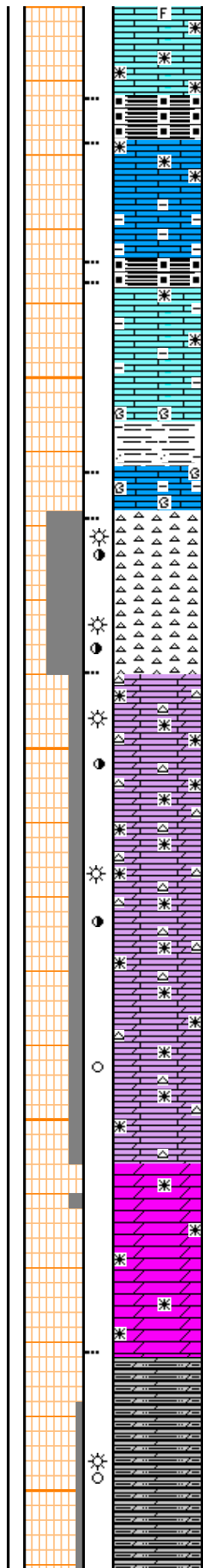
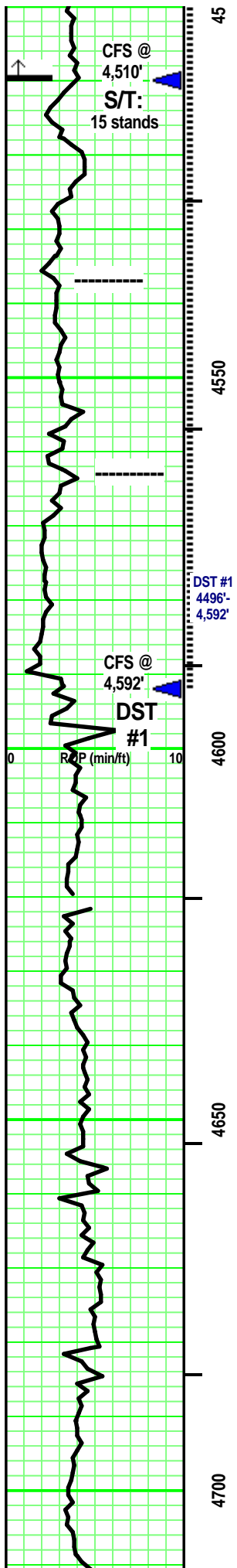
SH - Black. Carb Soft.

**PAWNEE 4,490' (- 3,088')**

few LS - Tan, tr Dark Tan/ mixed with Off White XF- Micro-xln. tr Re-xln. tr fossil frags. [ rare Micro- Oolites & Ooloids. Clear Matrix. Opaque to Transparent. some soft.] mostly Firm. No/ tr vis por. No/ tr edge. some Spotted yellow fluorescence. AF



DST #1  
4496'-  
4,592'



tr vis por. no/r odor. rare Spotted yellow fluorescence. A/C, no free oil or gas. No stain. rare Weak Pos cut/ residual. rare Weak Pos acid/ residual.

SH - Black. Sing. Carb. Soft.

few 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 4,537' (- 3,135')**

few 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.

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

Rubble

**MISS 4,563' (- 3,161')**

some slivers of CHERT - Off White/ White/ Tan/ some Silvery Gray. Mot. Opaque to semitransparent. some misc fossil frags/hash Inclusions. Spotted/ some Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain. rare Hghly limy dol or dol / frags in part. Tr/ fair vis por

Faint odor. Spotted/ some Uniform Yellow fluorescence. No free oil/ rare minute gas bubble. Stain as above (30% - 80%). Weak Pos/ Pos cut/ residual. Weak Pos/ Pos acid/ residual. few/ some Oil spots on wash water.

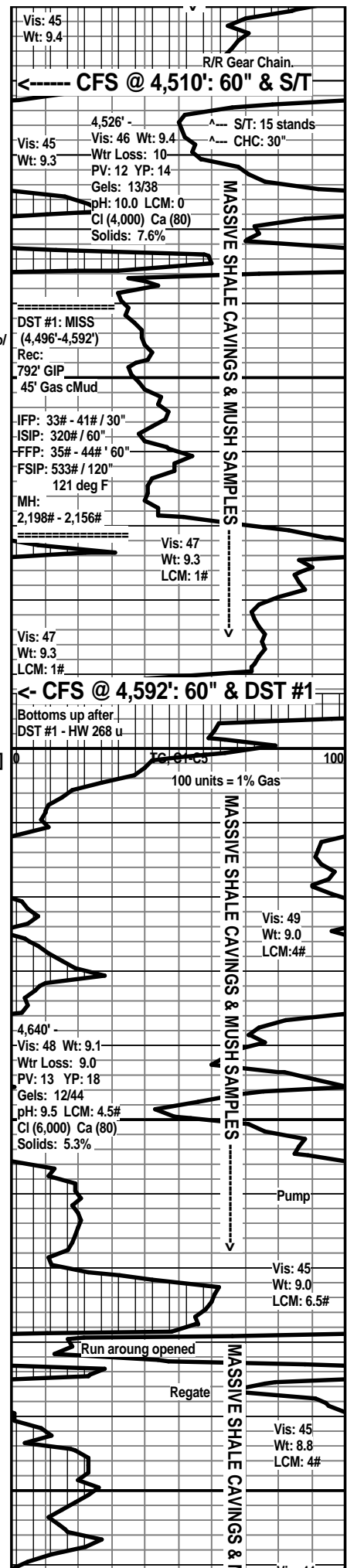
Dolomite (Calc) - Tans / Lt Gray & tr Med Gray. Sing. Re-xln. xln & tr sucrosic por. tr Silty in part. [tr CHERT - similiar to immediately above. Add: tr glauc grains/ Green. similiar show in part.] Massive. some No/ mostly tr vis por.

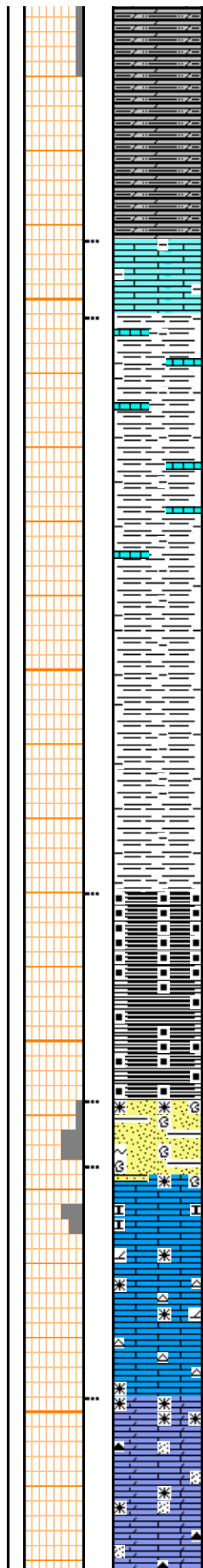
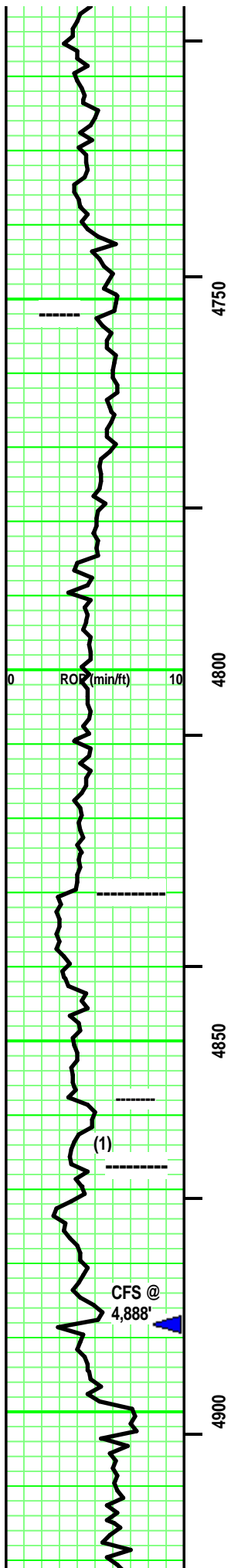
Dolomite (Calc) - Tans / Lt Gray & tr Med Gray. Sing. Re-xln. xln & tr sucrosic por. tr Silty in part. [tr CHERT - similiar to immediately above. Add: tr glauc grains/ Green.] Massive. some No/ mostly tr vis por.

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.

tr few pcs: similiar to immediately above. Add: rare, minute gas bubble.





LS - Tan/ Off White. Sing. Micro-/XF-xln. xln por. argil/shaly with depth. partly Firm. No/ tr vis por.

----- KINDERHOOK SH 4,752' (-3,350')

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

SH - Dark Gray/ Greenish Med & Dark Gray. Sing/ tr Mot. Firm. Massive. rare limy streak.

----- WOODFORD SH 4,830' (-3,428')

SH - Black. Sing. carb. (Brown hue scratch.) Massive. some blocky. tr pyritic.

SH - Black/ Dark Grayish Black. Sing. carb in part. Blocky. Massive. some brec frags at depth.

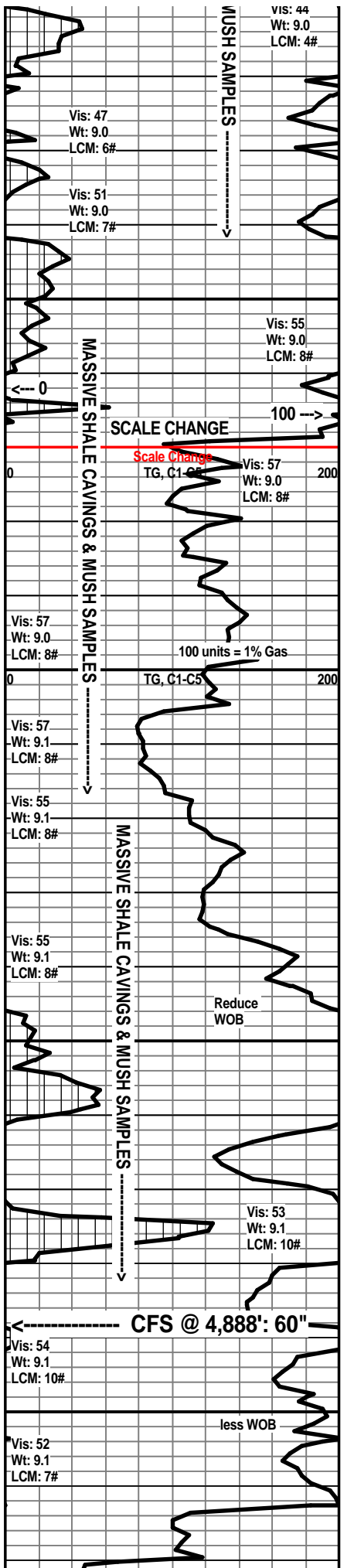
SS (1) - Clear/ Grays/ tr Green. Mot. Sil/ VF qtz & tr glauc grains. SA/ SR. Mod sort & sph. Vitri/ some frosted luster. tr point/ mostly sutured grain contact. Calc/ Si cement. lots SR, oval argil frags. tr LS frags with depth. part Firm to Dense. No/ tr vis por.

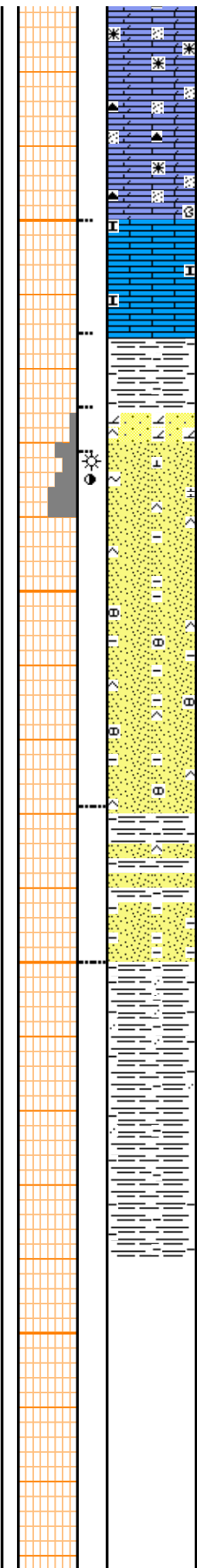
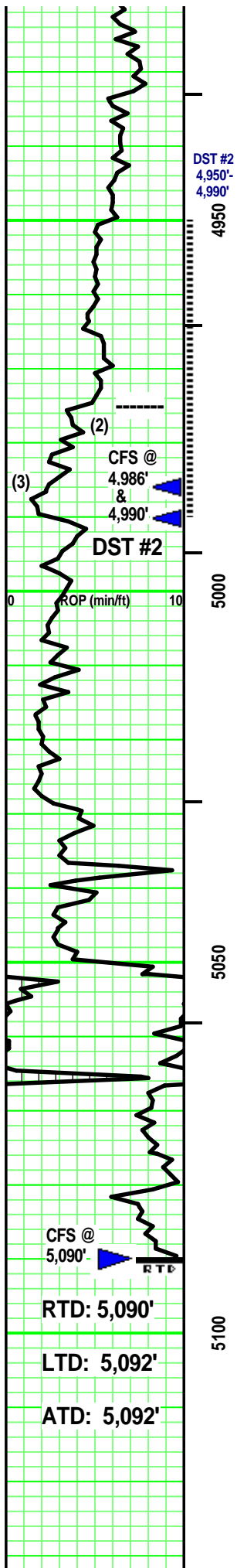
----- VIOLA 4,867' (-3,468')

LS (tr dolo in part) - Off White/ Tans. Sing/ Mot. mixture of Crypto-/ Micro-xln. xln por. subchalky at top. some highly dol in part. some Re-xln. (tr/some CHERT - Clear/ White, Mottled -or- Tan, Grays, White, Clear - Mottled. Opaque to mixed semitrans- parent. rare Inclusions: fossil hash/ fragments. No/ some tripolitic.) Firm. 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.

CFS @ 4,888'





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

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

**WILCOX SS 4,975' (-3,573')**  
SS (2) - Clear/ Pale Greenish Gray/ Lt Gray/ Off White. Mot. VF-/ tr silt sized qtz grains, tr glauc grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Do/ tr sil cement. some Point/ mostly sutured grain contact. tr argil in part. partly Friable. Fair/ good vis por. I.

SS (3) - mostly Clear/ rare Lt Brownish 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. No/? odor. rare Barren/ mostly spotted Yellow fluorescence. A/C, no free oil. On own & A/C, free minute gas bubbles. rare, spotted Lt Brown stain. Pos cut & residual. Pos acid & residual.

Add: argil frags/ pellets. tr glauc grains.

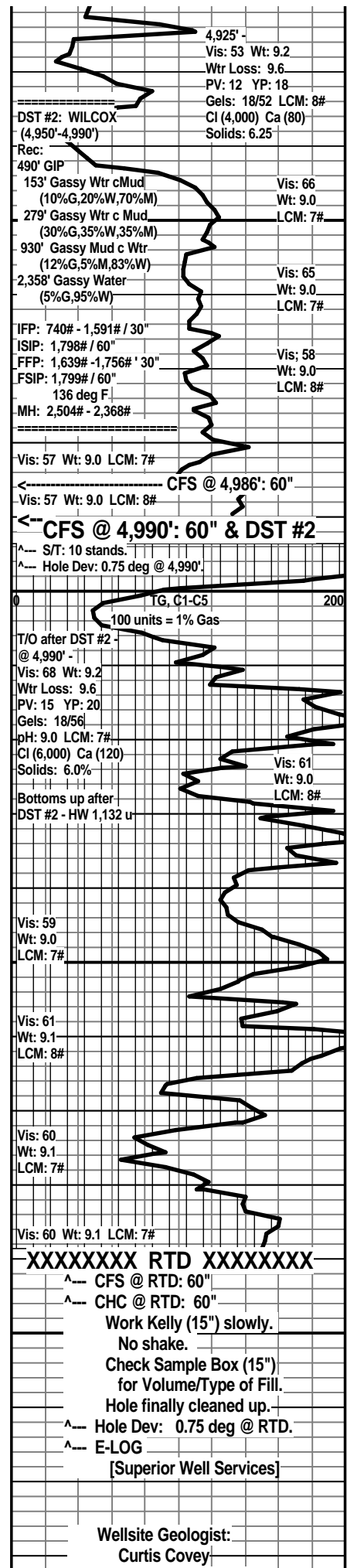
Interbedded SH & SS

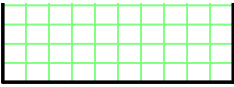
SH - Gray/ Greenish Gray. Sing. tr sandy.  
SS - similar to above. misc brec frags.

SH - Grays/ Green Gray/ tr Pale Greenish Gray. Sing/ tr Mot. highly sandy stringers in part (similar to immediately above). mixture of 'crumbly' / grainy / blocky / some waxy. Massive.

**TUCKER B GU 3**  
660' FNL & 660' FEL 11-T34S-R11W  
Barber County, Kansas

WOOLSEY OPERATING COMPANY  
Wichita, Kansas





COVEY - The Well Watchers			
Well Number: 1,112			