



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: _____



1056019

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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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	RICKE 2
Doc ID	1056019

All Electric Logs Run

Compensated Density/Comp Neutron PE
Dual Induction
Sonic
Micro

ALLIED CEMENTING CO., LLC. 041396

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Lodge
9-17-2010

DATE <u>9-16-2010</u>	SEC <u>5</u>	TWP. <u>35</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>12:30 AM</u>
LEASE <u>Ricke</u>	WELL # <u>2</u>	LOCATION <u>281 + Kiowa Jct</u>			COUNTY <u>Barber</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)		<u>2 east to Instar Rd 9/10 n/w/s</u>					

CONTRACTOR Val Rig #3

TYPE OF JOB Surface

HOLE SIZE 14 3/4" T.D. 233'

CASING SIZE 10 3/4" DEPTH 221'

TUBING SIZE 8 5/8" JS DEPTH 13'

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 300 MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 20 3/4 freshwater

OWNER Woolsey Operating

CEMENT AMOUNT ORDERED 230 sx Class A + 31.00 + 21.60L

EQUIPMENT

PUMP TRUCK CEMENTER Carl Balding

471-302 HELPER Carl Balding

BULK TRUCK # 364 DRIVER Taron Thimesch

BULK TRUCK # _____ DRIVER _____

COMMON <u>A 230 sx</u>	@ <u>15.45</u>	<u>3553.50</u>
POZMIX _____	@ _____	_____
GEL <u>5 sx</u>	@ <u>20.80</u>	<u>104.00</u>
CHLORIDE <u>8 sx</u>	@ <u>58.20</u>	<u>465.60</u>
ASC _____	@ _____	_____
WELL FILE		
Regulatory Correspondence _____	@ _____	_____
Drill / Comp Workovers _____	@ _____	_____
Tests / Meters Operations _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>243</u>	@ <u>2.40</u>	<u>583.20</u>
MILEAGE <u>243.10/20</u>	@ _____	<u>486.00</u>
		TOTAL <u>5192.30</u>

REMARKS:

Run 221' 10 3/4 casing with a 13' 8 5/8 landing joint
Break circulation mix + pump 230 sx Class A + 31.00 + 21.60L
Displace with 20 3/4 lbs freshwater
Leave 20' Cement in Pipe + Shut in.
Cement - Did Circulate

SERVICE

DEPTH OF JOB <u>234'</u>		
PUMP TRUCK CHARGE <u>1018</u>	@ _____	<u>1018.00</u>
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>20</u>	@ <u>7.00</u>	<u>140.00</u>
MANIFOLD _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
		TOTAL <u>1158.00</u>

CHARGE TO: Woolsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

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 [scribble]

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME MIKE TRAP

SIGNATURE [Signature]

[scribble]

ALLIED CEMENTING CO., LLC. 042214

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

DATE <i>09 27 10</i>	SEC <i>05</i>	TWP. <i>35s</i>	RANGE <i>11 w</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>7:45 PM</i>
LEASE <i>Ricke</i>	WELL # <i>2</i>	LOCATION <i>US 281 # Rattle snake Rd, 2e,</i>			COUNTY <i>Barber</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)		<i>1/4 s, w/s</i>					

CONTRACTOR *Val #3*
 TYPE OF JOB *Production Casing*
 HOLE SIZE *7 7/8* T.D. *5440*
 CASING SIZE *5 1/2* 15.5 DEPTH *5159*
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX *1600* MINIMUM _____
 MEAS. LINE _____ SHOE JOINT *33.90*
 CEMENT LEFT IN CSG. *34'*
 PERFS. _____
 DISPLACEMENT *123 Bbls 2% KCL Water.*

OWNER *Woolsey Oper.*

CEMENT
 AMOUNT ORDERED *90 sx 60:40:4% gel + 1/4" Floseal & 150 sx Class "H" + 10% gyp + 10% Salt + 6" Kolseal + 1/4" Floseal + .8% FC/60 & 13 gals Clapro*

COMMON	<i>A 54 sx</i>	@ <i>15.45</i>	<i>834.30</i>
POZMIX	<i>36 sx</i>	@ <i>8.00</i>	<i>288.00</i>
GEL	<i>3 sx</i>	@ <i>20.80</i>	<i>62.40</i>
CHLORIDE	_____	@ _____	_____
ASC	_____	@ _____	_____
<i>H 150 sx</i>	@ <i>16.75</i>	<i>2512.50</i>	
<i>Gypseal 14 sx</i>	@ <i>29.20</i>	<i>408.80</i>	
<i>Salt 16 sx</i>	@ <i>12.00</i>	<i>192.00</i>	
<i>Kolseal 900 #</i>	@ <i>.89</i>	<i>801.00</i>	
<i>Floseal 60 #</i>	@ <i>2.50</i>	<i>150.00</i>	
<i>F1-160 112.80 #</i>	@ <i>13.30</i>	<i>1500.24</i>	
<i>Clapro 13 Gals</i>	@ <i>31.30</i>	<i>406.90</i>	
HANDLING	<i>295</i>	@ <i>2.40</i>	<i>708.00</i>
MILEAGE	<i>295 / 10 / 15</i>		<i>442.50</i>
TOTAL			<i>8306.64</i>

EQUIPMENT

PUMP TRUCK CEMENTER *D. Felio*
 #360-265 HELPER *M. Thimesch*
 BULK TRUCK
 #356-252 DRIVER *R. Gilley*
 BULK TRUCK
 # DRIVER _____

REMARKS:

Pipe on Btm, Break Circ., Plug Rat & Mouse holes w/ 40sx 6040 cement Blend, Pump 50sx Scavenger Cement, Mix 150sx tail Cement, Stop Pump Wash Pump & Lines, Release Plug, Start Disp. w/ 2% KCL Water, See Steady increase in PST, Slow Rate, Bump Plug at 123 Bbls total Disp., Release PST, Floats Did Hold

SERVICE

DEPTH OF JOB *5159*
 PUMP TRUCK CHARGE *2185.00*
 EXTRA FOOTAGE @ _____
 MILEAGE *15* @ *7.00* *105.00*
 MANIFOLD *Head rental* @ _____
 @ _____
 @ _____

TOTAL *2290.00*

CHARGE TO: *Woolsey Oper.*
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<i>1-AFU Float Shoe</i>	@ _____	<i>214.20</i>
<i>1-Catch down Plug Assy</i>	@ _____	<i>163.80</i>
<i>27-Recip. Scratchers</i>	@ <i>23.94</i>	<i>646.38</i>
<i>10-turbolizers</i>	@ <i>40.60</i>	<i>406.00</i>
TOTAL <i>1430.38</i>		

To Allied Cementing Co., LLC.
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SALES TAX (If Any) _____
 TOTAL CHARGES ~~_____~~
 DISCOUNT _____ IF PAID IN 30 DAYS ~~_____~~

PRINTED NAME *MIKE THARP*
 SIGNATURE *Mike Tharp*

5 1/2"



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

Ricke #2

125 N Market Ste 1000
Wichita KS 67202

5 35s 11w Barber

Job Ticket: 37440

DST#: 1

ATTN: Curtis Covey

Test Start: 2010.09.23 @ 19:53:30

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:00

Time Test Ended: 06:59:45

Test Type: Conventional Bottom Hole

Tester: Esak Hadley

Unit No: 34

Interval: 4668.00 ft (KB) To 4818.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 4818.00 ft (KB) (TVD)

1369.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8374 Inside

Press @ Run Depth: 180.27 psig @ 4669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.23

End Date:

2010.09.24

Last Calib.: 2010.09.24

Start Time: 19:53:35

End Time:

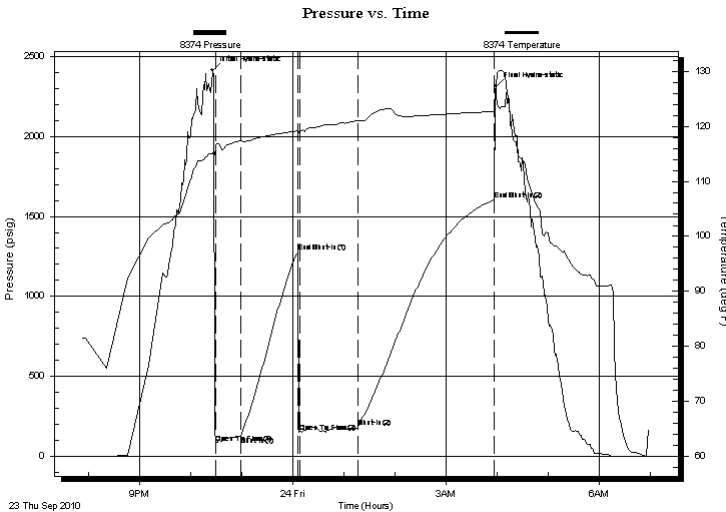
06:59:45

Time On Btm: 2010.09.23 @ 22:26:00

Time Off Btm: 2010.09.24 @ 03:58:45

TEST COMMENT: IF Strong blow . BOB in 90 sec.
ISI No blow .
FF Strong blow . BOB in 2 sec. GTS in 60 min.
FSI No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2412.86	115.14	Initial Hydro-static
4	83.49	116.71	Open To Flow (1)
34	126.68	117.52	Shut-In(1)
100	1276.15	119.14	End Shut-In(1)
102	148.50	118.91	Open To Flow (2)
171	180.27	121.01	Shut-In(2)
331	1604.53	122.64	End Shut-In(2)
333	2312.39	125.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	O&GCWM 1%o 4%g 20%w 75%m	0.89
120.00	drilg mud	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

Ricke #2

125 N Market Ste 1000
Wichita KS 67202

5 35s 11w Barber

Job Ticket: 37440

DST#: 1

ATTN: Curtis Covey

Test Start: 2010.09.23 @ 19:53:30

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	O&GCWM 1%o 4%g 20%w 75%m	0.885
120.00	drlg mud	1.683

Total Length: 300.00 ft Total Volume: 2.568 bbl

Num Fluid Samples: 0

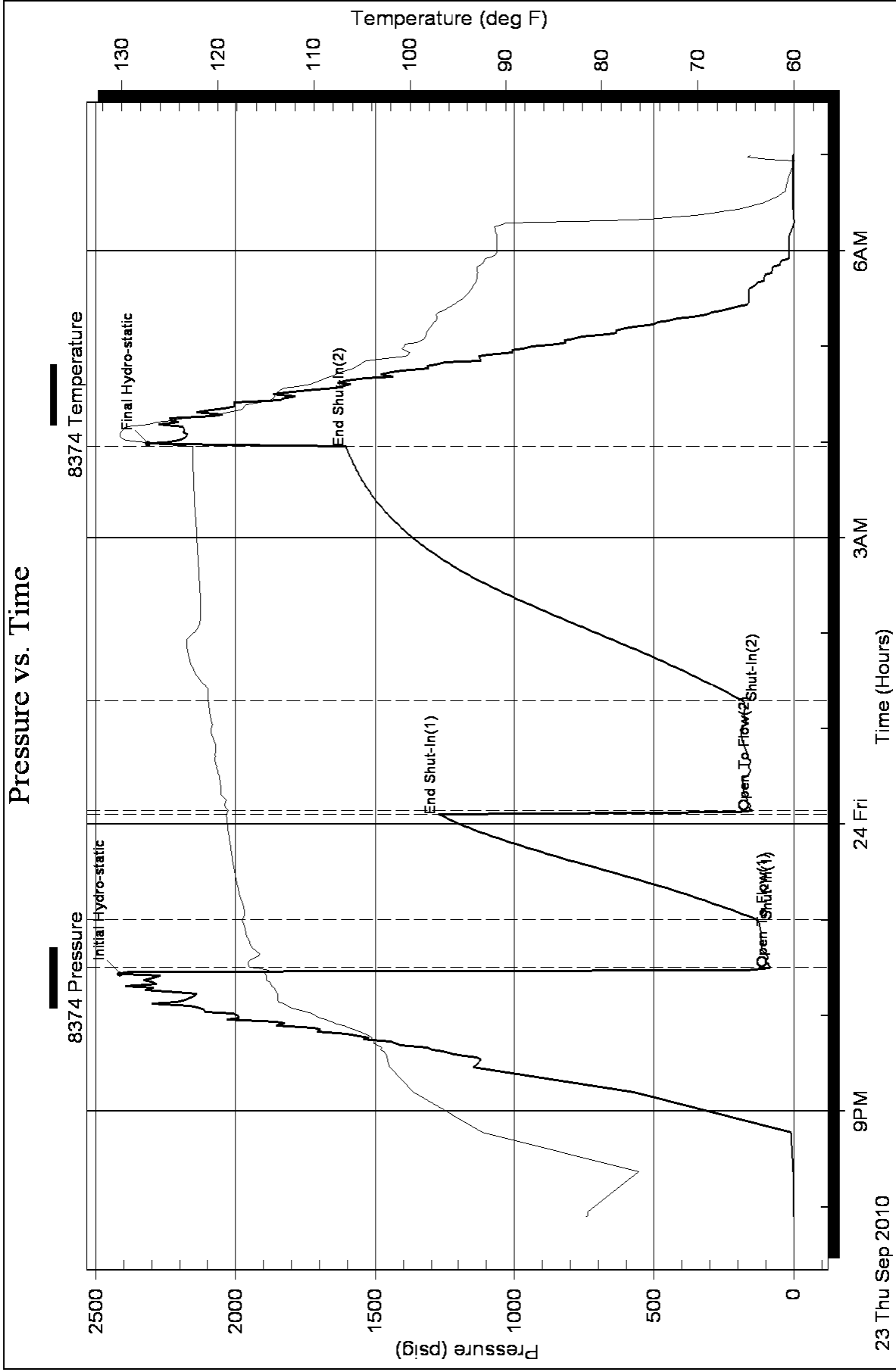
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Covey

The Well Watchers

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

Well Name: **RICKE #2**
Location: **Section 5 - Township 35 South - Range 11 West**
Licence Number: **15-007-23,576 - 00-00** Region: **Barber County, KS.**
Spud Date: **16 September 2010** Drilling Completed: **26 September 2010**
Surface Coordinates: **1,005' FNL & 1,010' FEL**
(Approximately SW SW NE NE)
Bottom Hole Coordinates:
Ground Elevation (ft): **1,369'** K.B. Elevation (ft): **1,379'**
Logged Interval (ft): **4,500'** To: **5,440'** Total Depth (ft): **5,440'**
Formation: **B / KC -----> McLish SS**
Type of Drilling Fluid: **Chemical; Low Solids (non-dispersed)**

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: **WOOLSEY OPERATING COMPANY, LLC**
Address: **125 North Water, Suite 1000**
Wichita, Kansas 67202
(316) 267-4379
Geologists:
Dean Pattison
Marc Summervill

GEOLOGIST

Name: **Curtis Covey**
Company: **COVEY - The Well Watchers**
Address: **6548 Bedford Circle** **wellsitegeo1@gmail.com**
Derby, Kansas 67037
Office: **(316) 776 - 0367** Cell: **(316) 217-4679**

KB: 1,379'

FORMATION TOPS

GL: 1,369'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Heebner SH	3,745' (-2,366')	3,749' (-2,370')
Toronto LS	3,769' (-2,388')	3,760' (-2,381')
Douglas Gp	3,791' (-2,412')	3,788' (-2,409')
Stark SH	4,469' (-3,090')	4,464' (-3,085')
Hushpuckney SH	4,501' (-3,122')	4,496' (-3,117')
B / KC	4,552' (-3,173')	4,546' (-6,167')
Pawnee LS	4,648' (-3,269')	4,652' (-3,273')
Cherokee Gp	4,701' (-3,322')	4,700' (-3,321')
Mississippian	4,763' (-3,384')	4,758' (-3,379')
Kinderhook Sh	5,037' (-3,658')	5,034' (-3,655')
Woodford Sh	5,079' (-3,700')	5,077' (-3,698')
Viola	5,101' (-3,722')	5,102' (-3,723')
Wilcox Sand	5,279' (-3,900')	5,277' (-3,898')
McLish Sand	5,414' (-4,035')	5,412' (-4,033')

* Plotted Drilling Time Top

RTD: 5,440' LTD: 5,437' ATD: 5,437'

Rotary sample depth is 2' - 4' low to E-logger's depth.

E-Loggers: **Superior Well Services**
Hays, Kansas

14-3/4" Hole
 16 Sept --- Spud @ 6pm. Drill to 237'.
 Run 10-3/4" casing. Set casing
 @ 234'. Cemented w/ 230 sx
 60/40 Poz (2% gel+3%CC).
 [Allied]
 Cement did circulate.
 17 --- Plug down @ 12:30pm. WOC.

7-7/8" Hole
 17 Sept --- WOC. 7am @ 237'.
 Under surface casing @
 11:45am with PDC bit.
 18 --- 7am @ 1,680'.
 19 --- Bit Trip @ 2,356'. Resumed
 Drilling with Tri-Cone Bit.
 7am @ 2,435'.
 20 --- 7am @ 3,183'.
 21 --- Displace mud @ 3,419'.
 7am @ 3,850'.
 22 --- 7am @ 4,401'.
 23 --- 7am @ 4,719'.
 Start and

7-7/8" Hole
 24 Sept --- Finish DST #1:
 MISS (4,668'-4,818')
 7am @ 4,818'.
 Resumed Drilling @ 9:35am.
 25 --- 7am @ 5,090'.
 26 --- 7am @ 5,370'.
 RTD (5,440') @ 4:33pm.
 Start &
 27 --- Finish E-LOG.
 [Superior Well Services]

DST \$1 - MISS CHERT

Rotary Depth: 4,668' - 4,818'
 Logger's Depth: 4,664' - 4,814'

Recovery: 20P- GTS 60"
 120' Mud
 180' O&GcWMud (1%O,4%G,20%,75%M)

Recovery Water: Not Reported
 System Water: (5,000 ppm)

IFP: 83# - 127# / 30"
 ISIP: 1,276# / 60"
 FFP: 148# - 180# / 60"
 FSIP: 1,605# / 140"
 123 deg F
 MH: 2,413# - 2,312#

IF: Strong Blow. BOB in 90 seconds.
 ISI: No Blow back.
 FF: Strong Blow. BOB in 2 seconds. GTS in 60 minutes.
 FSI: No Blow back.

Total Fluid: 300'

Reported Rw = Not Reported

Trilobite Testing, Inc.
 Pratt, KS.

HOLE DEVIATION (237' - 5,440')

DEPTH / TVD	--- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
237' /	--- 0.75 (Surface)						
1,200' /	--- 0.75						
1,699' /	--- 1.00						
2,229' /	--- 1.00						
2,356' /	--- 1.00 (Bit Trip)						
2,793' /	--- 0.50						
3,253' /	--- 1.00						
3,850' /	--- 1.00						
4,300' /	--- 0.50						
4,818' /	--- 0.75 (DST #1)						
5,440' /	--- 0.75 (RTD)						

VAL ENERGY, INC.

Wichita, Kansas

Drilling Rig #3 - (620) 617-6541

Toolpusher: Greg Davidson (620) 200-7468

Mud Pump: National K-500
6-1/2" x 15 @ 52/54 SPM.

Pump Pressure: 850 / 900 psi @ standpipe.

On main hole (tri-cone), 75 - 80 RPM.

Weight Indicator Check @ 4,514':
String Weight calculates 112,297#.

Weight Indicator shows 110M; therefore,
weight indicator light by about 2 %.

Dry Wt of Collars: 51,212#
[533.46' x 96#/ft = 51,212#]
Drill Collars: 6-1/2" OD x 2-1/2" ID
Buoyancy Wt of Collars: 44,042#
[51,212# x .860 (9.2ppg) = 44,042#]
Available WOB: 37,436#
[44,042# x .85 = 37,436#]
Tension on drill string - 6,606#
[15% Design Factor]
to keep drill string straight.

Contractor reports running
38M/40M on bit

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
16 Sept	14-3/4"	JZ - RR	16 - 16 - 16	0' / 237'	237'	2.00	118.5
17 Sept	7-7/8"	JZ (PDC)	6 / 16's	237' / 2,356'	2,119'	30.75	68.9
19 Sept	7-7/8"	JZ QX-20	16 - 16 - 16	2,356' / 5,440'	3,086'	133.25	23.2

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
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Ss 2

MINERAL

- Mica
- Anhy

- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- 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
- Dol ls




- Gyp
- Ls
- Mrst
- Calc dol
- Sltstrg
- Ssstrg
- Chalk
- New symbol
- Oil
- Spotted
- Ques
- Dead
- Gas
- Oil/gas
- Bed contact

ACCESSORIES

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

OTHER SYMBOLS

ACTIVITY

-  Lost circulation
-  Circulate for sample 2
-  Circulate for samples



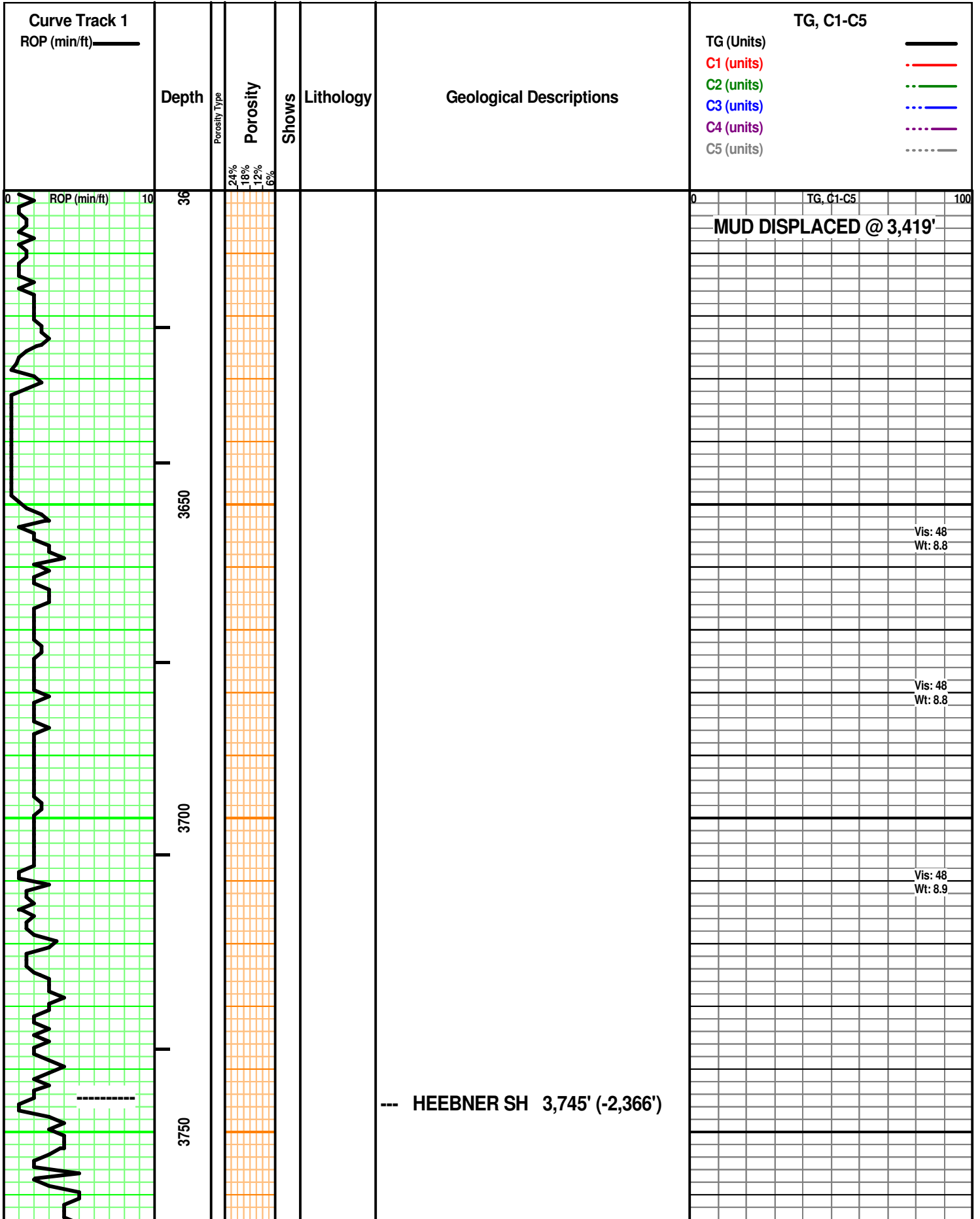
- Rtd
- Bit trip

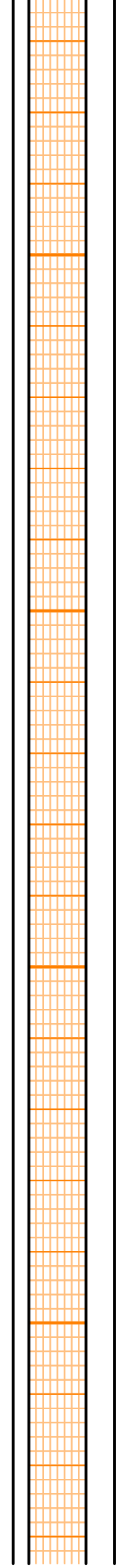
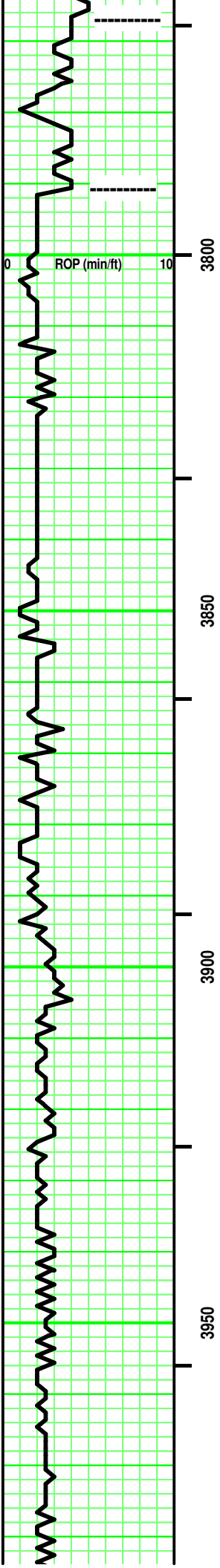
INTERVAL

-  Core
-  Dst
-  Jammed core

EVENT

-  Connection
-  Rft
-  Sidewall

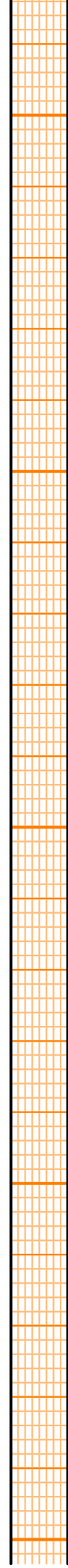
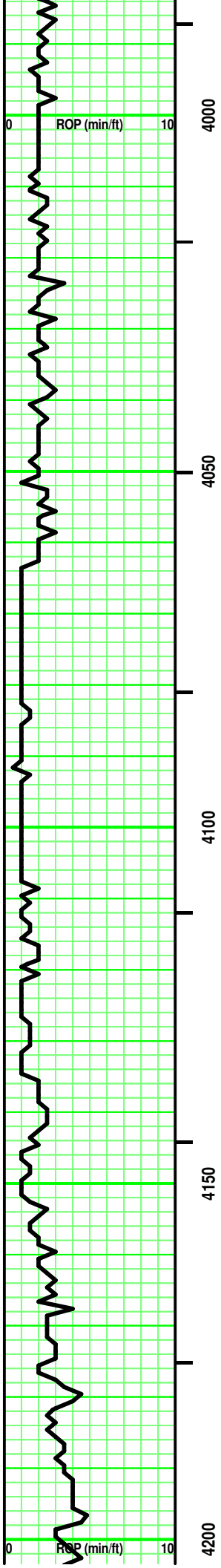




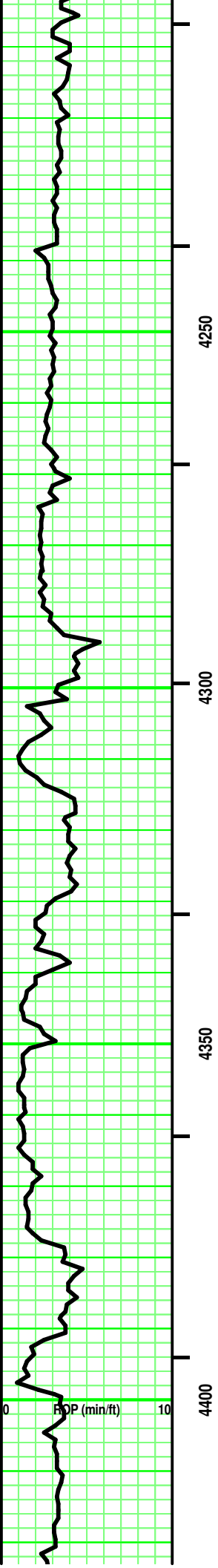
----- TORONTO 3,769' (-2,388')

---- DOUGLAS SH 3,791' (-2,412')

0	TG. C1-C5	100
		Vis: 48 Wt: 9.0
		Vis: 46 Wt: 9.0
		Vis: 48 Wt: 9.2
		Vis: 58 Wt: 9.2



		Vis: 50 Wt: 9.2+
0	TG, C1-C5	100
		Vis: 52 Wt: 9.3
		Vis: 49 Wt: 9.2
		Vis: 49 Wt: 9.2
		Vis: 47 Wt: 9.2
0	TG, C1-C5	100



4250

4300

4350

4400

0 BOP (min/ft) 10

Vis: 48
Wt: 9.2

Vis: 49
Wt: 9.3

Vis: 45
Wt: 9.3+

Hole Dev: _____
0.50 deg @ 4,300'

Vis: 46
Wt: 9.3

Vis: 45
Wt: 9.2

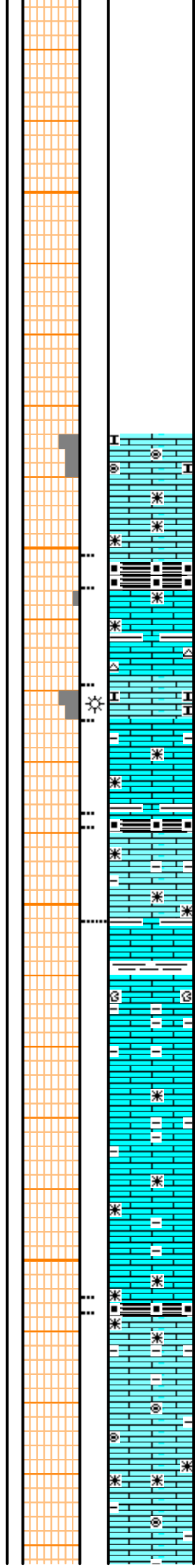
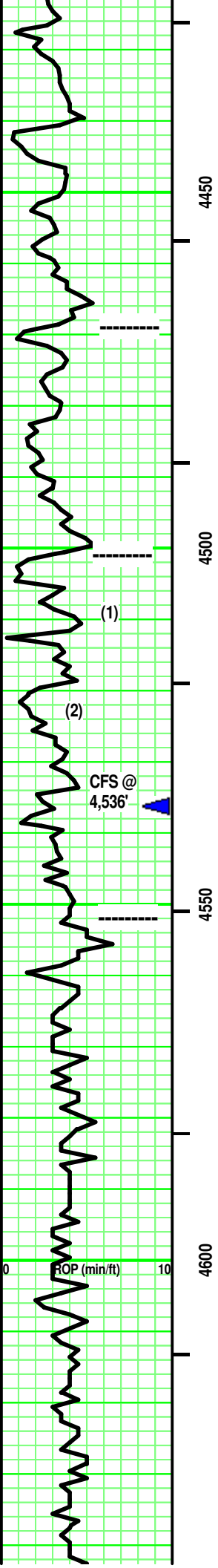
Vis: 47
Wt: 9.3

100 units = 1% Gas

0 TG, C1-C5 100

Dry Wt of Collars: 51,212#
[533.46' x 96#/ft = 51,212#]

Drill Collars: 6-1/2" OD x 2-1/2" ID
Buoyancy Wt of Collars: 44,042#
[51,212# x .860 (9.2ppg) = 44,042#]



----- STARK SH 4,469' (-3,090')

LS - Lt/ Med Tan. some Off White. Sing/ tr Mot. XF-/ Micro-xln. xln & part por. few pcs: Micro-Oolites. tr subchalky in part. tr Re-xln. Firm. with depth. Tr to No vis por.

----- HUSHPUCKNEY SH 4,501' (-3,122')

SH - Black. Sing. carb. soft.

LS (1) - Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. some interbedded Med Gray Sh. Firm. (tr CHERT - Tans/ Off White. Mot (speckled). Opaque. No tripolitic. No inclusions.) No/ tr vis por.

LS (2) - Tan/ Off White. Sing. Micro-xln. xln por. subchalky. partly Friable. No/ tr vis por. No/? odor. Spotted, yellow fluorescence. A/C, no free oil or gas. No stain. Weak Pos cut/residual. Weak Pos acid/ residual.

LS - Similar to (1) above.

SH - Med Gray at top changing to: Black. Sing. carb. tr fissile.

LS - Tans. Sing. tr XF-/ Micros-xln. xln por. tr Re-xln. tr argil. mostly Firm. No/ tr vis por.

----- B / KC 4,552' (-3,173')

Interbedded & Intermixed LS & SH

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

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

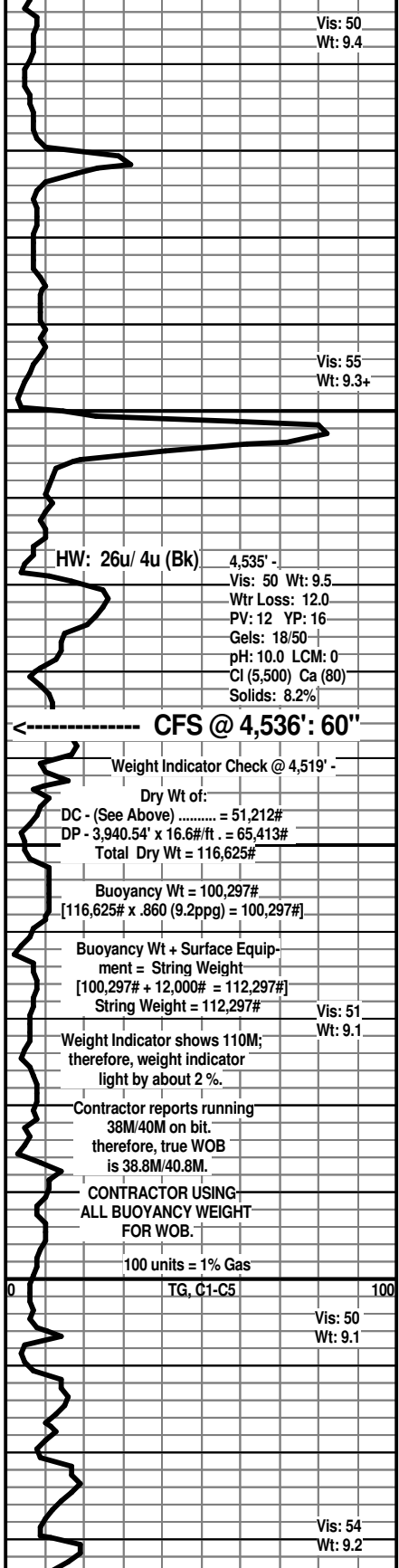
SH - Black. Sing. carb. tr fissile.

LS - Tans/ some Lt Gray & tr Off White. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. some argil/ shaly in part. few pcs Mico-Oolites. Firm. No/ tr vis por.

Available WOB: 37,4326#
 [44,042# x .85 = 37,436#]

Tension on drill string - 6,606#
 [15% Design Factor]
 to keep drill string straight.

Contractor reports running
 38M/40M on bit



Vis: 50
 Wt: 9.4

Vis: 55
 Wt: 9.3+

HW: 26u/ 4u (Bk) 4,535' -
 Vis: 50 Wt: 9.5
 Wtr Loss: 12.0
 PV: 12 YP: 16
 Gels: 18/50
 pH: 10.0 LCM: 0
 Cl (5,500) Ca (80)
 Solids: 8.2%

----- CFS @ 4,536': 60"

Weight Indicator Check @ 4,519' -

Dry Wt of:
 DC - (See Above) = 51,212#
 DP - 3,940.54' x 16.6#/ft . = 65,413#
 Total Dry Wt = 116,625#

Buoyancy Wt = 100,297#
 [116,625# x .860 (9.2ppg) = 100,297#]

Buoyancy Wt + Surface Equip-
 ment = String Weight
 [100,297# + 12,000# = 112,297#]
 String Weight = 112,297#

Vis: 51
 Wt: 9.1

Weight Indicator shows 110M;
 therefore, weight indicator
 light by about 2%.

Contractor reports running
 38M/40M on bit.
 therefore, true WOB
 is 38.8M/40.8M.

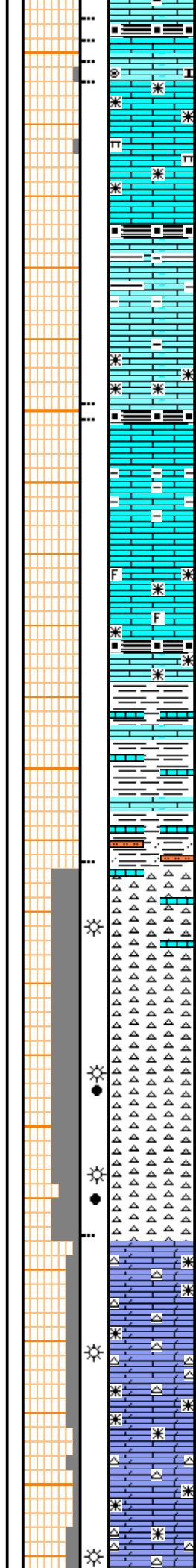
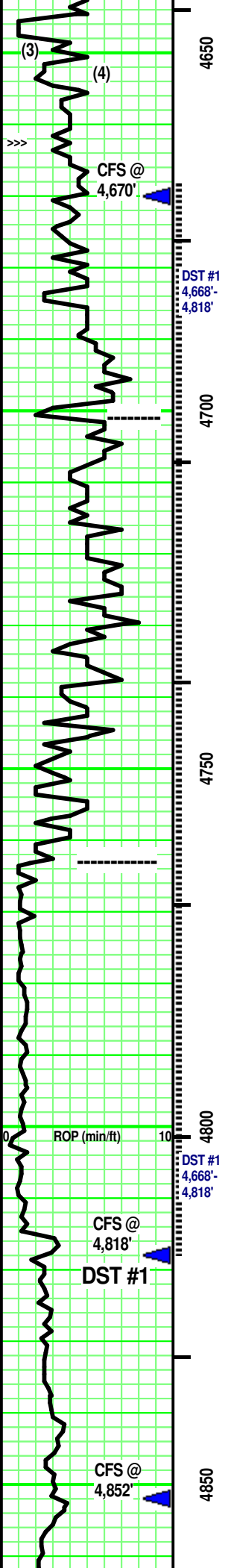
CONTRACTOR USING
 ALL BUOYANCY WEIGHT
 FOR WOB.

100 units = 1% Gas

TG, C1-C5

Vis: 50
 Wt: 9.1

Vis: 54
 Wt: 9.2



SH - Black, Carb. Sing. Soft.
PAWNEE 4,648' (-3,269')
 LS (3) - Tans/ some Lt Gray. Sing/ some Mot. XF-/ some Micro-xln. xln por. some Re-xln. some argil/ shaly in part. No/ tr vis por.
 few pcs LS (4) - Tan/ tr Off White Micro-VF oolites & nodules. Tan to Off White matrix. tr subchalky. mixture of: point & 'floating' particle contact. partly friable. No/ tr vis por.

SH - Black, Carb. Sing. Soft.
 LS - Tan/ some Lt & Med Gray. Sing. Micro-/ XF-xln. xln por. Re-xln. tr argil/shale (some interbedded). mostly Firm. No/ tr vis por.

SH - Black, Carb. Sing. Soft
CHEROKEE GP 4,701' (-3,322')
 Interbedded & Intermixed SH & LS
 LS - Lt & Med Tan/ some Lt 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.

SH - Black. Sing. carb. tr fissile.

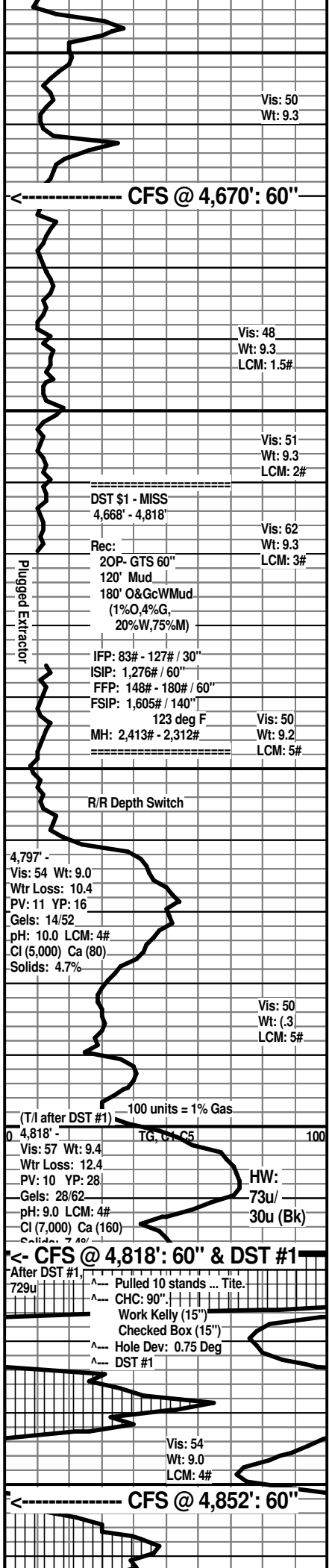
SH - Grays. Sing. tr calc in part. some rubble with depth.

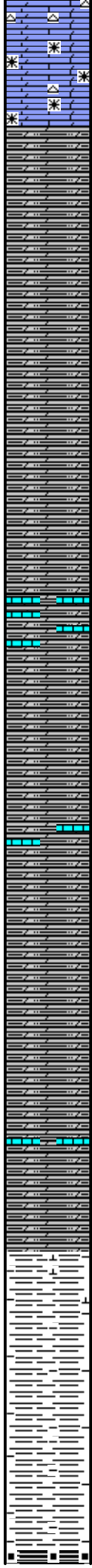
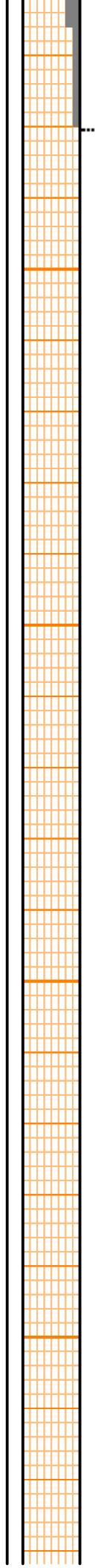
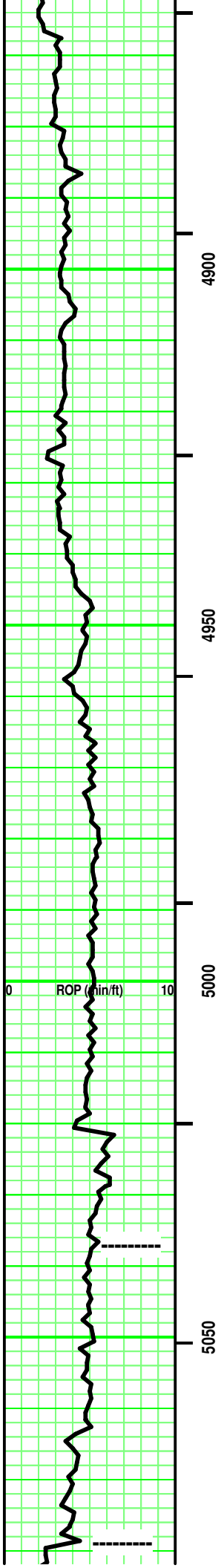
Intermixed/ Interbedded LS similar to above. Add Siltstone - Pale Blue/ tr Greenish Blue. Sing. some highly limy. misc inclusions minute (pellets/ nodules/ rare fossil frags).
 few pcs SS at depth - Clear/ Bluish Green. Mot. Silt sized qtz grais. SR. Mod sort & sph. frosted luster. 'floating' grain contact in silty matrix. partly Firm. No/ tr vis por. minute, irregular brown blotches.

MISS 4,763' (-3,384')
 CHERT - Off White/ Pale Lt Gray. tr Semi-transparent/Opaque. No/ few/ some lots misc fossil incl. tr to some Tripolitic. Faint/ Fair odor. spotted/ rare uniform yellow fluorescence. A/C, no free oil or gas. spotted/ rare uniform Med Brown stain. Pos cut & residual. Pos acid & residual. oil spots on wash water increasing with depth.

fre pcs LS towards top- Tans/ some SI Pale Gray. Sing. Micro-/ tr XF-xln. xln por. some Re-xln. some misc rubble. partly Firm. No/ tr vis por.

LS (Dol) - Tan/ Lt Gray. Sing. XF-/Micro-xln. xln por. Re-xln. partly Firm. Chert as (5) below. No/ tr vis por
CHERT (4) - Off White/ tr Silvery Gray/ rare Tan.
 Mot/ Mixed. mostly Opaque to semitransparent. rare to mostly fair Spotted Tripolitic with Spotted Lt to Med Brown stain ?/ Faint odor. tr/ fair Spotted Uniform Yellow fluorescence. No free oil/ rare minute gas bubble. Stain as above (25% - 55%). Weak to Pos cut/ residual. Weak to Pos acid/ residual. some Oil spots on wash water.





Add: LS (Dol) - Lt/ some Med Gray. Increasing with depth. Sing. XF-/Micro-xln. xln por. Firm. tr Chert similar to 5 above. No show. Firm. No/ tr vis por.

Dolomite (Calc) - tr Tan/ mostly Lt Gray, tr Med Gray. Sing. Re-xln. xln & tr sucrosic por. Silty in part. Massive. No/ tr vis por.

Dolomite (Calc) - Lt & Med Gray. Sing. Re-xln. xln sucrosic por. Silty in part. Massive. No/ tr vis por.

Add: Lt Gray limy streaks.

Add: Lt Gray limy streaks.

Dolomite (Calc) - Lt & Med Gray. Sing. Re-xln. xln sucrosic por. Silty in part. Massive. No/ tr vis por.

Add: Lt Gray limy streaks.

KINDERHOOK SH 5,037' (-3,658')

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

WOODFORD SH 5,079' (-3,700')



Vis: 49
Wt: 9.0+
LCM: 5#

Vis: 49
Wt: 9.0
LCM: 5#

Vis: 52
Wt: 9.1
LCM: 5#

Vis: 50
Wt: 9.1
LCM: 5#

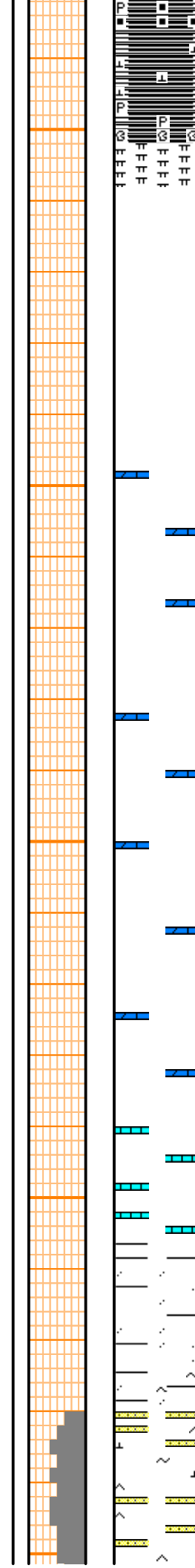
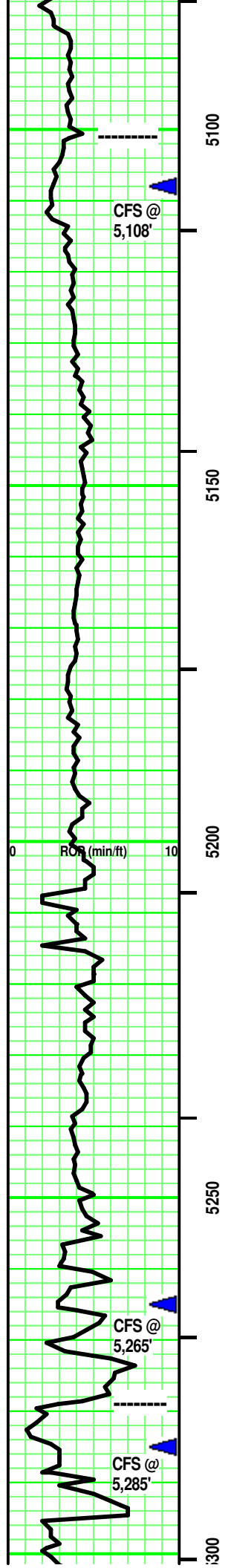
100 units = 1% Gas

FC C1-C5

Vis: 67
Wt: 9.2
LCM: 8#

Vis: 60
Wt: 9.2+
LCM: 7#

Vis: 65
Wt: 9.3
LCM: 6#



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

SH - Dark Brown, Brownish Black. Sing. highly limy (silty texture) in part. highly pyritic in part. Firm.

----- **VIOLA 5,101' (-3,722')**

MARL - Lt Gray. Sing. Micro-xln. xln & part por. Argil. Highly Limy in part. Firm. No/ tr vis por.

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

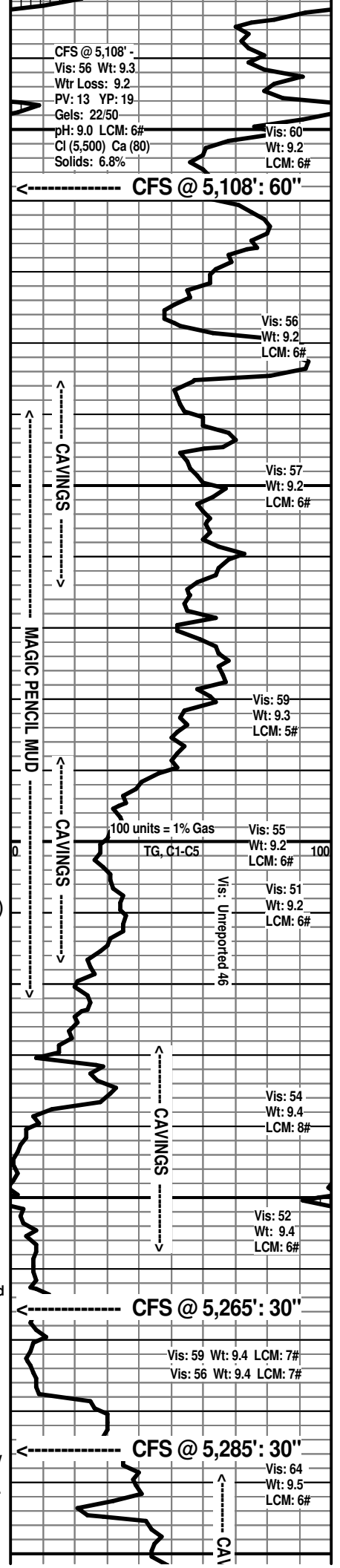
few pcs: LS (dolo in part) - Off White/Tans. Sing/ Mot. mixture of Crypto-/ Micro-xln. xln por. some highly dol in partsome Re-xln. (some CHERT - Clear/ White/ Off White/ tr Tan. Mottled-or-Mixed. Opaque to mixed semitrans- parent. rare Inclusions: fossil fragments. No/ some tripolitic.) Firm. No/ tr vis por.

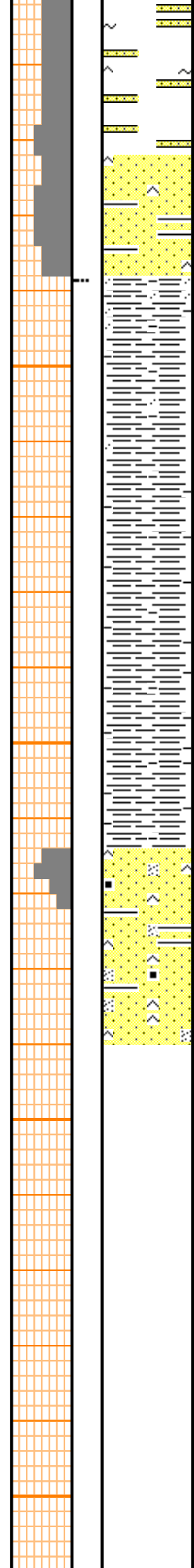
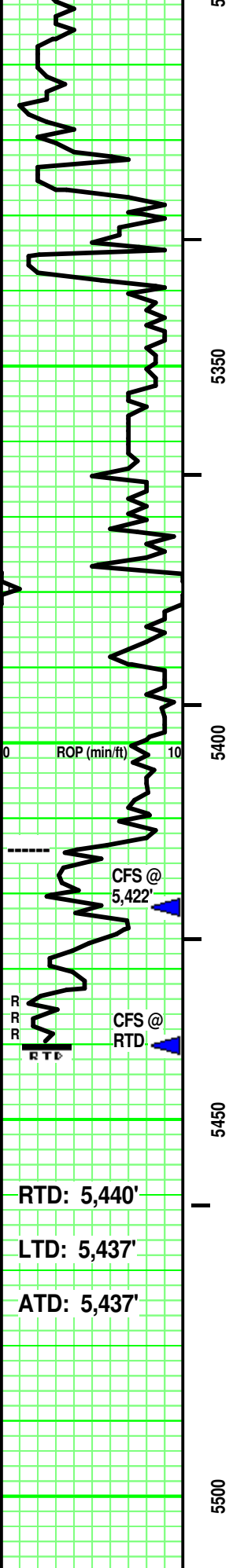
few pcs: LS - Off White/Lt Gray. Sing/ Mot. XF-/Micro-xln. xln por. some Re-xln. Firm. Dense. No/ tr vis por.

SH - Dark Greenish Gray/ Green Gray. Sing. Blocky. Sharp edges on some pcs. Sandy with depth: SS - Clear/ Grayish Green. Mot XF-/ silt qtz grains. SA/SR. Mod sort & sph. frosted luster. point/ some 'floating' grain contact. tr minute glauc grains. No/ tr vis por.

----- **WILCOX SS 5,279' (-3,900')**

SS - Clear/ Off White/ some Pale Lt Gray, Tan. Mot/Mixed. some VF- mostly silt sized qtz grains. SR/SA. Hi sort. Mod sph. Vitreous/ frosted grain contact. Calc/ sil cement. mostly sututred/ tr point grain contact. tr argil frags in part. rare carb flecks. rare/ tr glauc specks. partly Friable. Fair/ good vis por. No odor. No flouresence. No free oil or gas. tr spotted, irregular Lt Brown stain. No cut/ residual. No acid/ residual.

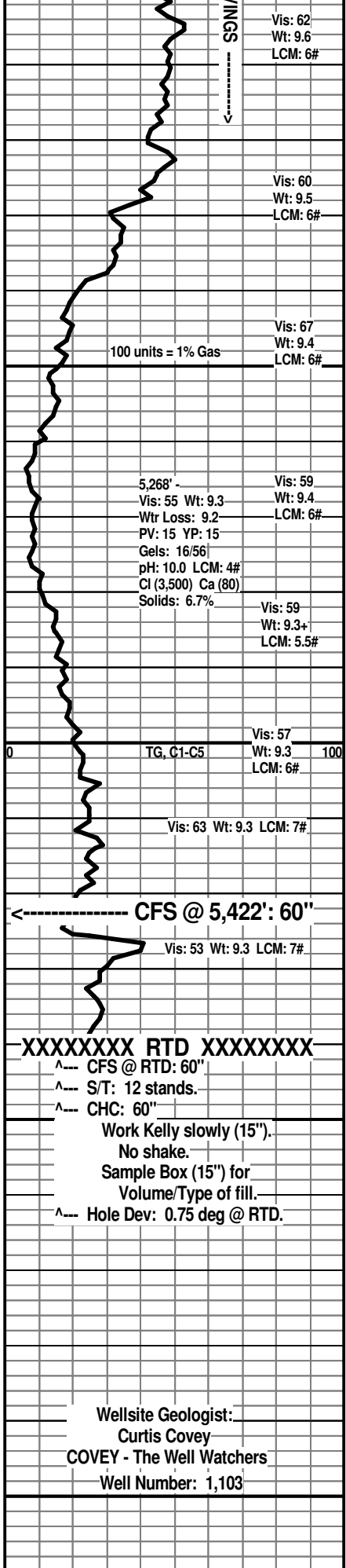




SS - Clear/ Pale Lt Gray/ some Off White. Mot. VF-/ tr silt sized qtz grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Calc/ tr sil cement. Point/ some sutured grain contact. some argil in part. partly Friable. Fair/ good vis por.

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

----- McLish SS 5,514' (-4,035')
 SS - Clear/ Off White. Mot. rare F/ mostly VF- & silt sized qtz grains. SR/SA. Hi sort. Mod sph. Vitreous/ frosted grain contact. Calc/ sil cement. mostly sutured/ tr point grain contact. tr argil in part. rare carb flecks. lots, SA, VF Dark Gray frags. few pcs: SA, Silt/tr VF Dark Green frags. partly Friable. Fair/ tr good vis por.



RICKE #2

1,005' FNL & 1,010" FEL 35-T35S-R11W
 Barber County, Kansas

WOOLSEY OPERATING CO., LLC.
 Wichita, Kansas

Wellsite Geologist:
 Curtis Covey
 COVEY - The Well Watchers
 Well Number: 1,103