



KANSAS CORPORATION COMMISSION 1060013
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- 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: _____



1060013

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

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

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

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

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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 22, 2011

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

Re: ACO1
API 15-007-23668-00-00
SPICER A 3
NE/4 Sec.02-34S-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. 040055

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE <u>3-26-2011</u>	SEC. <u>2</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	3-25 CALLED OUT <u>8:00 PM</u>	3-25 ON LOCATION <u>11:30 PM</u>	Medicine Lodge KS 3-26 JOB START <u>2:00 PM</u>	3-26 JOB FINISH <u>2:30 AM</u>
LEASE <u>Spicer</u>	WELL# <u>A-3</u>	LOCATION <u>2810 Gerlsin Blvd,</u>			COUNTY <u>Berber</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>6 3/4 east, S into</u>					

CONTRACTOR Duke #10

TYPE OF JOB Surface

HOLE SIZE 14 3/4 T.D. 224

CASING SIZE 10 3/4 DEPTH 219'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 20'

PERFS. _____

DISPLACEMENT 20 bbls of fresh water

OWNER Woolsey Operating

CEMENT

AMOUNT ORDERED 240 sq ft class A + 20% Gel + 30% CC

COMMON class A 240 sq ft @ 15.45 3708.00

POZMIX _____ @ _____

GEL 5 sq @ 20.80 104.00

CHLORIDE 9 sq @ 58.20 523.80

ASC _____ @ _____

WELL FILE

Regulatory Correspondence _____ @ _____

Drig / Comp Workovers _____ @ _____

Tests / Meters Operations _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Derin F.

360-265 HELPER Ron G

BULK TRUCK

364 DRIVER Bobby W.

BULK TRUCK

_____ DRIVER _____

HANDLING 254 @ 2.40 609.60

MILEAGE 254/10/15 @ _____ 381.00

TOTAL 5326.40

REMARKS:

Pipe on bottom & break circulation
pump 3 bbls fresh water check
mix 240 sq cement, displace 20 bbls
of fresh water, shut in, cement
did circulate

MAY 02 2011 SERVICE

DEPTH OF JOB 219'

PUMP TRUCK CHARGE _____ @ _____ 1018.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 15 @ 7.00 105.00

MANIFOLD _____ @ _____

Shusse & Uglive @ _____

CHARGE TO: Woolsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1123.00

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 X MACE THARP

SIGNATURE X MACE THARP

Thank you!!!

ALLIED CEMENTING CO., LLC. 040063

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Medicine Lodge, KS
4-5 4-5

DATE <u>4-4-2011</u>	SEC. <u>2</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT <u>5:30 pm</u>	ON LOCATION <u>8:30 pm</u>	JOB START <u>1:30 pm</u>	JOB FINISH <u>2:30 pm</u>
LEASE <u>Spicer</u>	WELL# <u>A-3</u>	LOCATION <u>281 & Garlein Bk 7D</u>			COUNTY <u>Baiber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>6 3/4 e S 110</u>				

CONTRACTOR Duke #10
 TYPE OF JOB Production
 HOLE SIZE 2 3/4 T.D. 5170'
 CASING SIZE 2 3/4 DEPTH 5144'
 TUBING SIZE 2 3/4 DEPTH
 DRILL PIPE Correspondence DEPTH
 TOOLS Comp Workovers DEPTH
Tests / Meters Operations
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 40'
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 122 bbls of 2% KCL w/ cbr

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 90 Sx 60' 40' 40' 6-1
125 Sx Class H + 10% Gyp + 10% salt
6# Kalseal + .8% FL 160 + Ve # Flossal

EQUIPMENT
 PUMP TRUCK CEMENTER Darin F
 # 360-265 HELPER Jason J
 BULK TRUCK
 # 356-290 DRIVER Kevin W.
 BULK TRUCK
 # DRIVER

COMMON	<u>54sx @ 16.25</u>	<u>877.50</u>
POZMIX	<u>365x @ 8.50</u>	<u>306.00</u>
GEL	<u>35x @ 21.25</u>	<u>63.75</u>
CHLORIDE	@	
ASC	@	
Class H	<u>125sx @ 19.25</u>	<u>2406.25</u>
Gyp seal	<u>12sx @ 34.20</u>	<u>410.40</u>
Salt	<u>145x @ 23.95</u>	<u>335.30</u>
Kalseal	<u>750# @ 1.09</u>	<u>667.50</u>
FL-160	<u>94# @ 17.20</u>	<u>1616.80</u>
Flossal	<u>32# @ 2.70</u>	<u>86.40</u>
	@	
	@	
HANDLING <u>262</u>	@ <u>2.25</u>	<u>589.50</u>
MILEAGE <u>15/11/262</u>		<u>432.30</u>
TOTAL		<u>7791.70</u>

REMARKS:

Pipe on bottom & basic circulation
 mix 30sx per Ret hair, mix 10sx per
 mouse hole, mix 50sx of scavenger
 cement, mix 125sx of tail cement, shut
 down, wash pump & line, Release plug
 Start displacement, lift pressure ok
 80 bbls, slow rate to 3 bpm @ 115
 bbls, Bump plug @ 122 bbls 1000-1200 ps
 float & hold

SERVICE

DEPTH OF JOB <u>5144'</u>		
PUMP TRUCK CHARGE		<u>2695.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD	@	
<u>Hesa rental</u>	@	<u>200.00</u>
<u>Light Vehicle</u> <u>30</u>	@ <u>4.00</u>	<u>120.00</u>
TOTAL		<u>3225.00</u>

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

PLUG & FLOAT EQUIPMENT

5 1/2

1- BFD float shoe	@	<u>314.00</u>
1- Latch Down plug	@	<u>249.00</u>
14- Turbolizers	@ <u>66.00</u>	<u>924.00</u>
36- Scrappers	@ <u>71.00</u>	<u>2556.00</u>
TOTAL		<u>4043.00</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 ~~7791.70~~
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME x MIKE THOMP
 SIGNATURE x Mike Thompson
Thank you!!!



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

Spicer-A #3

125 N Market STE 1000
Wichita KS 67202-1729

2-34s-11w

Job Ticket: 41638

DST#: 1

ATTN: Curtis Covey

Test Start: 2011.04.02 @ 23:53:36

GENERAL INFORMATION:

Formation: **Wilcox**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:27:06

Time Test Ended: 13:08:21

Test Type: Conventional Bottom Hole

Tester: Chris Staats

Unit No: 34

Interval: 4980.00 ft (KB) To 5028.00 ft (KB) (TVD)

Reference Elevations: 1443.00 ft (KB)

Total Depth: 5028.00 ft (KB) (TVD)

1432.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773 Inside

Press @ Run Depth: 855.74 psig @ 4981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.02

End Date:

2011.04.03

Last Calib.:

2011.04.03

Start Time: 23:53:41

End Time:

13:08:21

Time On Btm:

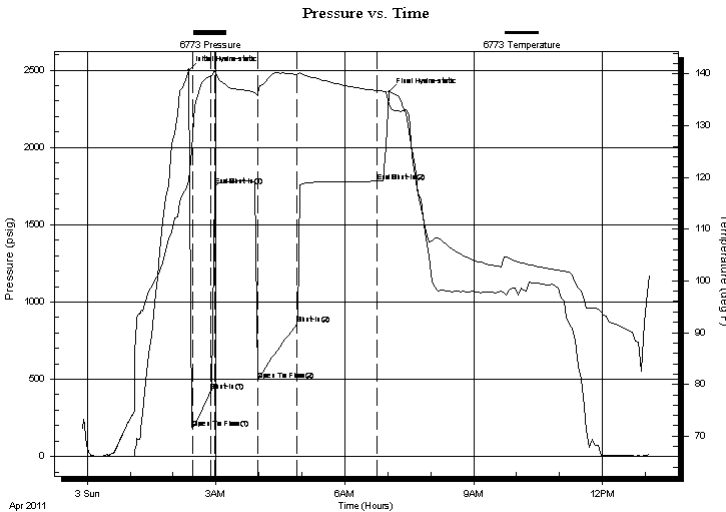
2011.04.03 @ 02:21:51

Time Off Btm:

2011.04.03 @ 07:01:51

TEST COMMENT: IF: Strong blow BOB in 1 min GTS 20 min
IS: Strong blow back BOB
FF: Strong blow BOB in 1 min
FS: Strong blow back BOB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2498.91	119.24	Initial Hydro-static
6	179.77	128.29	Open To Flow (1)
32	420.58	139.43	Shut-In(1)
37	1753.08	140.60	End Shut-In(1)
97	496.94	136.28	Open To Flow (2)
152	855.74	139.90	Shut-In(2)
263	1781.05	136.73	End Shut-In(2)
280	2358.43	133.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2709.00	GIP 100%	35.47
2250.00	oil, 99% mud 1%	31.56

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

Spicer-A #3

125 N Market STE 1000
Wichita KS 67202-1729

2-34s-11w

Job Ticket: 41638

DST#: 1

ATTN: Curtis Covey

Test Start: 2011.04.02 @ 23:53:36

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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2709.00	GIP 100%	35.468
2250.00	oil, 99% mud 1%	31.562

Total Length: 4959.00 ft Total Volume: 67.030 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

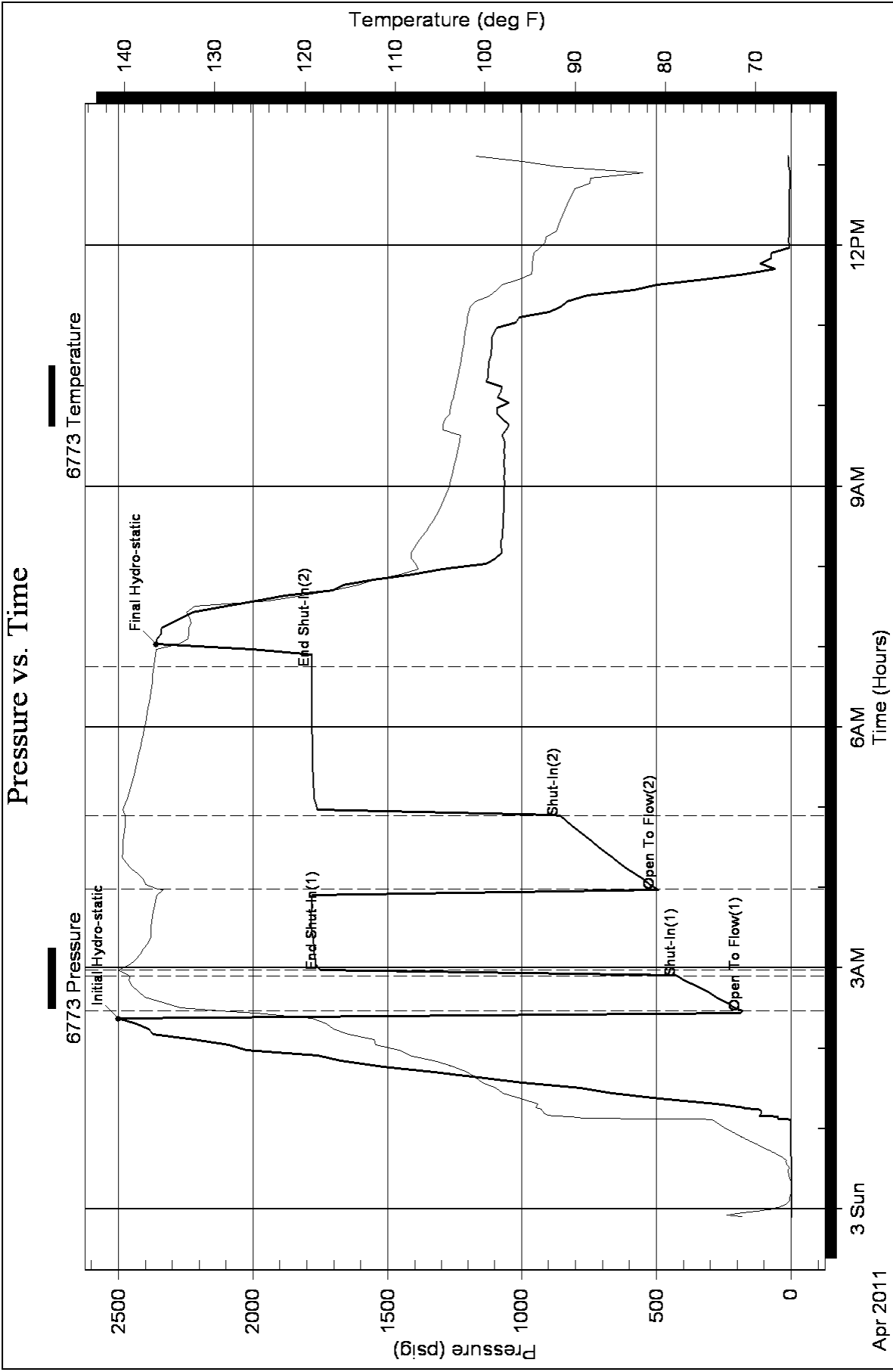
Serial #: Woolsey

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

Pressure vs. Time



Covey

The Well Watchers

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

Well Name: SPICER A-3
Location: Section 2 - Township 34 South - Range 11 West
License Number: 15-007-23,668. 0000 Region: Barber County, KS.
Spud Date: 25 March 2011 Drilling Completed: 4 April 2011
Surface Coordinates: 1,980' FNL & 660' FEL
(C SE NE)

Bottom Hole
Coordinates:
Ground Elevation (ft): 1,432' K.B. Elevation (ft): 1,443'
Logged Interval (ft): 4,400' To: 5,170' Total Depth (ft): 5,170'
Formation: Kansas City Group -----> McLish Sandstone
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)
Stark SH	4,338' (-2,895')	4,342' (-2,899')
Hushpuckney SH	4,367' (-2,924')	4,372' (-2,929')
B / KC	4,414' (-2,971')	4,418' (-2,975')
Pawnee LS	4,507' (-3,064')	4,512' (-3,069')
Cherokee Gp	4,558' (-3,115')	4,562' (-3,116')
Mississippian	4,581' (-3,138')	4,588' (-3,145')
Kinderhook Sh	4,780' (-3,337')	4,786' (-3,343')
Woodford Sh	4,861' (-3,418')	4,866' (-3,423')
Viola	4,896' (-3,453')	4,906' (-3,463')
Wilcox SS	5,022' (-3,579')	5,026' (-3,583')

RTD: 5,170' LTD: 5,174' ATD: 5,174'

E-log is 3' - 4' low to rotary sample depth.

Loggers:
Superior Well Services
Hays, Kansas

14-3/4" Hole
 25 Mar --- Spud @ 7:30pm.
 Drill to 223'.
 26 --- Run 10-3/4" casing.
 Set casing @ 219'.
 Cemented w/ 240 sx Class A
 (2% Gel + 3% CC). [Allied]
 Cement did circulate.
 Plug down @ 2:45am.
 WOC.

7-7/8" Hole
 26 Mar --- 7am @ 223'.
 Under surface casing @ 11:30am.
 27 --- 7am @ 1,439'.
 28 --- 7am @ 2,189'.
 29 --- 7am @ 2,895'.
 30 --- Displaced Mud @ 3,410'.
 7am @ 3,600'.
 31 --- 7am @ 4,267'.
 1 Apr --- 7am @ 4,570'.
 2 --- 7am @ 4,902'.
 Start &

7-7/8" Hole
 3 Apr --- 7am @ 5,028'.
 Finish DST #1:
 WILCOX (4,980' - 5,028')
 Resume Drilling @ 4:35pm.
 4 --- RTD (5,170') @ 4:30am.
 E-LOG.
 [Superior Well Services]

DST #1 - WILCOX

Rotary Depth: 4,980' - 5,028'
 Logger's Depth: 4,984' - 5,032'

Recovery: 10P: Gas to Surface (TSTM)
 2,709' Gas in Pipe
 2,250' Muddy OIL (1%M,,99%O) 40.8 deg API
 Total Fluid: 2,250'

Recovery Water: NA
 System Water: (5,000 ppm)
 Reported Rw = NA

IFP: 180# - 420# / 30"
 ISIP: 1,753# / 60"
 FFP: 497# - 856# / 60"
 FSIP: 1,781# / 120"
 136 deg F
 MH: 2,499# - 2,358#

IF: Strong Blow, BOB in 1 minute. GTS in 20 minutes. TSTM.
 ISI: Bleed Off. Strong Blow. BOB.
 FF: Strong Blow, BOB in 1 minute.
 FSI: Bleed Off. Strong Blow. BOB.

Trilobite Testing, Inc.
 Pratt, KS.

HOLE DEVIATION (223' - 5,170')

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
223' /	--- 1.25	(Surafce Casing)					
1,189' /	--- 0.50						
1,689' /	--- 0.50						
2,252' /	--- 0.75						
2,753' /	--- 0.75						
3,249' /	--- 0.75						
3,750' /	--- 0.50						
4,247' /	--- 0.75						
4,748' /	--- 1.00						
5,028' /	--- 1.25	(DST #1)					
5,170' /	--- 1.00	(RTD)					

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
25 Mar 2011	14-3/4"	VAREL L-117	3 / 15's	0' / 223'	223'	3.75	59.5
26 Mar 2011	7-7/8"	VAREL HE-21	15 - 15 - 15	223' / 5,170'	4,947'	139.75	31.1

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

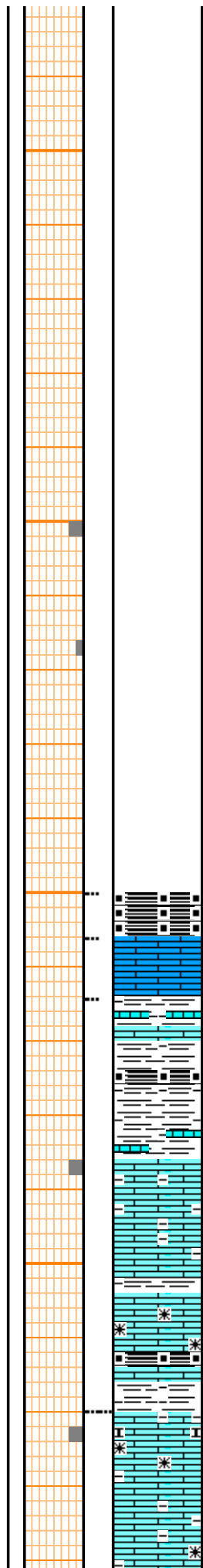
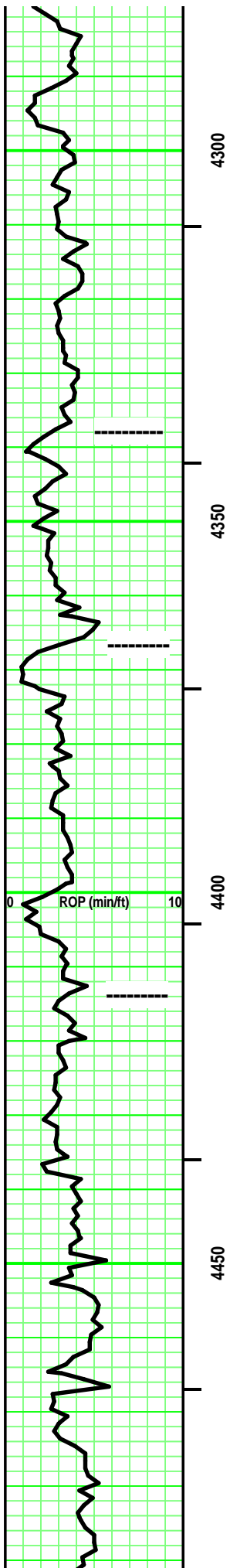
	Lost circluation
	Circulate for sample 2

	Circulate for samples
	Rtd
	Trip

EVENT

	Connection
	Rft

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



STARK SH 4,338' (2,895')

HUSHPUCKNEY SH 4,367' (-2,924')

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.

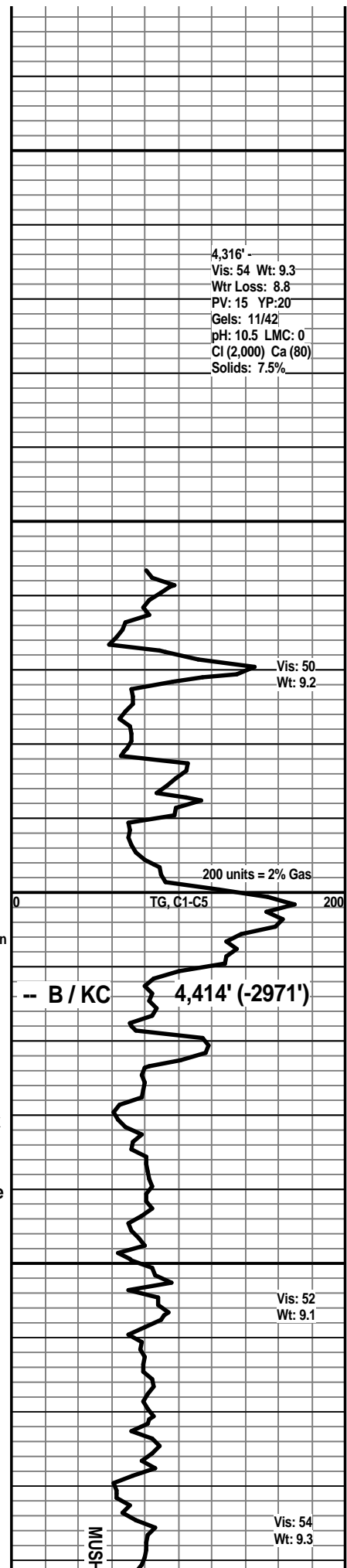
Intermixed & interbedded SH & LS

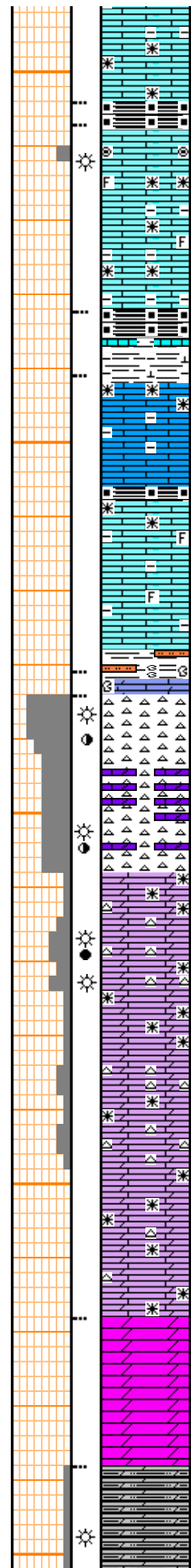
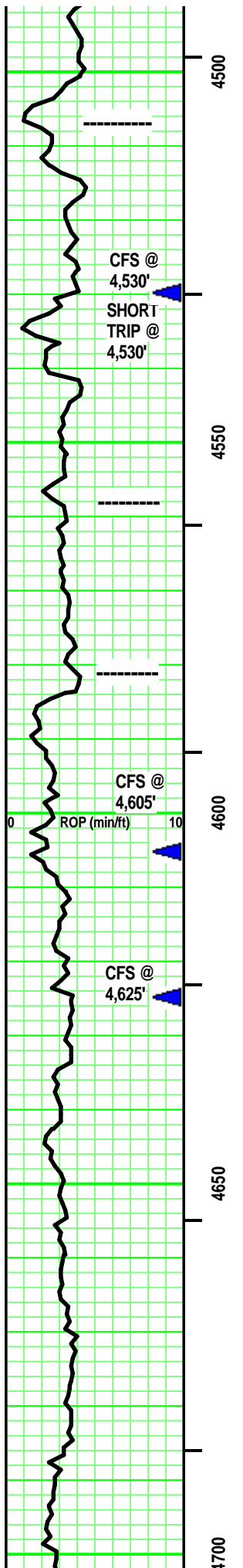
SH - Med/ Dark Grays, Black - carb. Sing. some Ls intermixed & interbedded / rare rubble.

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

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

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





SH - Black. Sing. carb. soft.

----- **PAWNEE 4,507' (-3,064')**

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.

?/ Faint odor. rare Spotted yellow fluorescence. A/C, no free oil. rare gas bubble.. No stain. Pos cut/ residual. Pos acid/ residual.

SH - Black. Sing. Carb. Soft. limy streak. SH - Med/ Dark Gray. tr calc.

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

SH - Black. Sing. Carb. Soft.

----- **CHEROKEE GP 4,558' (-3,115')**

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. tr Black, carb, soft. tr pyritic. some limy streaks in part. misc silty frags.

Rubble

----- **MISS 4,581' (-3,138')**

CHERT - Off White/ White/ Tan/ some Silvery Gray, Bluish Gray. Mot. Opaque to semitransparent. some misc fossil frags/hash Inclusions. Limy dol or dol frags & streaks in part. Tr/ fair vis por

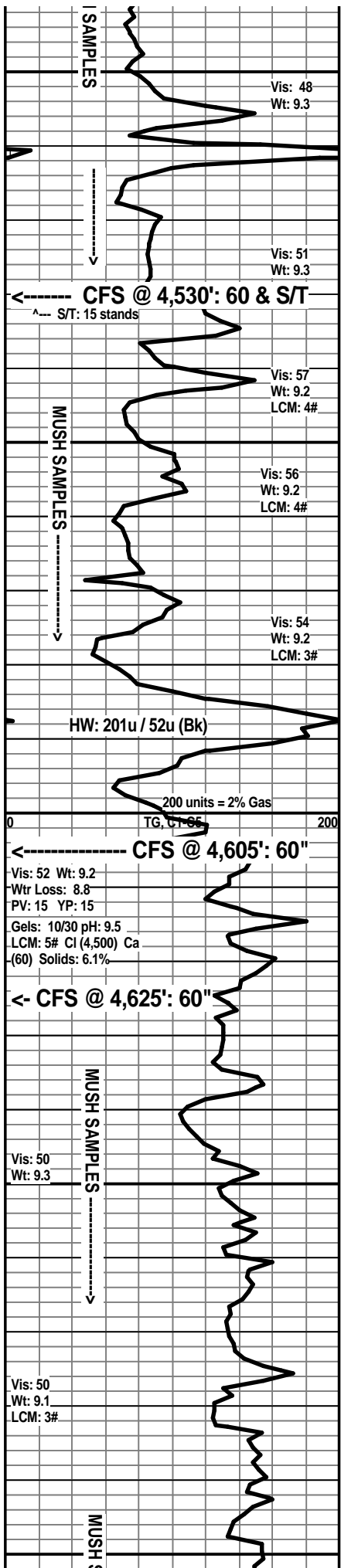
Faint to Good odor. Spotted/ some Uniform Yellow fluorescence. No free oil/ rare minute gas bubble. Spotted/ some Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain. Stain as above (30% - 80%) . Weak Pos/ Pos cut & residual. Weak Pos/ Pos acid & residual. few/ some Oil spots on wash water.

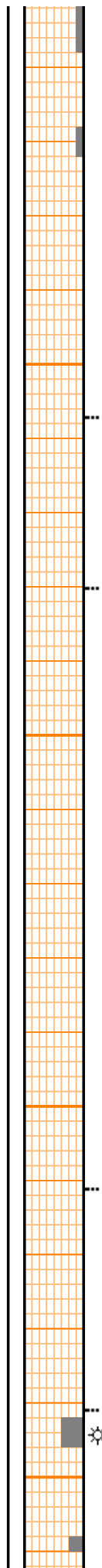
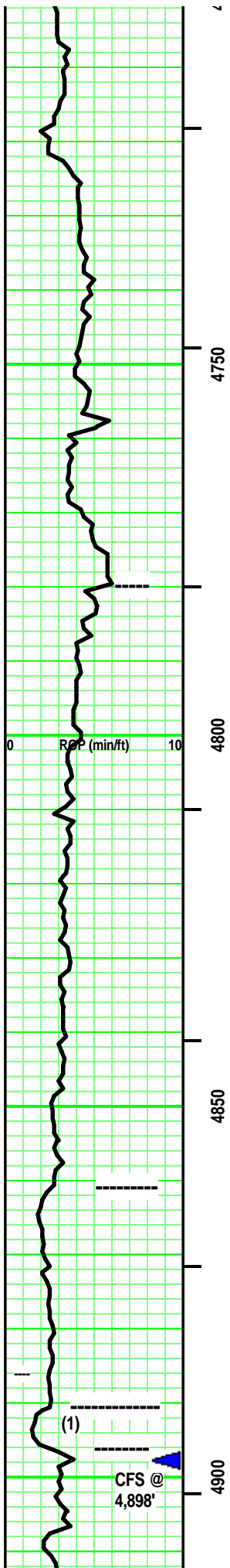
Dolomite (Calc) - Tans / Lt Gray & tr Med Gray. Sing. Re-xln. xln & tr sucrosic por. tr Silty in part. [tr CHERT - similar to immediately above. Add: tr glauc grains/ Green. similar show in part.] Add: tr free, Dark Brown oil. Massive. some No/ mostly tr vis por.

Dolomite (no/ 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.

rare ncs: similar to immediately above. Add:





... rare, minute gas bubble.

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.

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

----- KINDERHOOK SH 4,780' (-3,337')

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

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

SH - Dark & V Dark Gray/ Greenish Med & Dark Gray. Sing/ tr Mot. Firm. Massive.

----- WOODFORD SH 4,861' (-3,418')

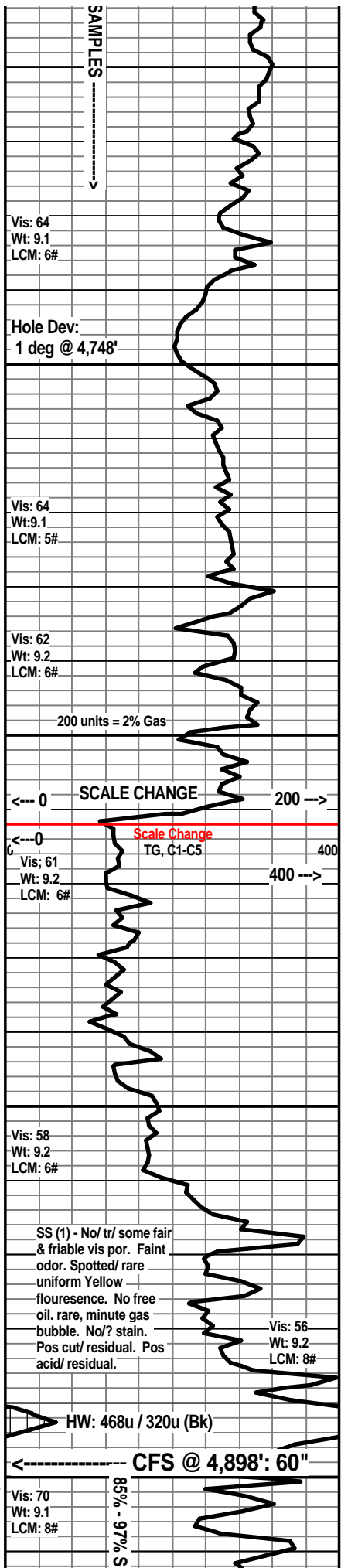
SH - Black. Sing. carb. (Brown hue scratch.) Massive. some blocky. tr pyritic.

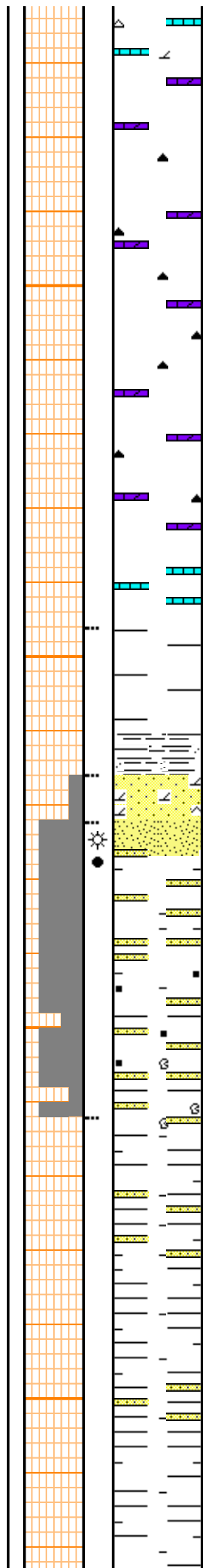
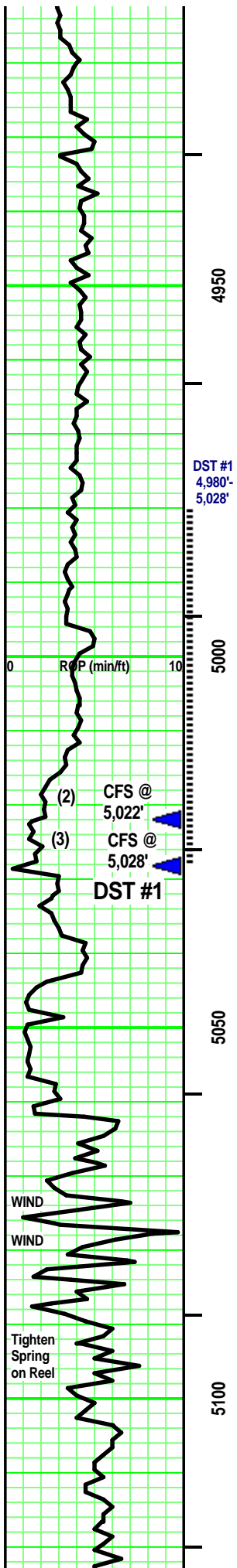
SH - Black/ Dark Grayish Black. Sing. carb in part. Blocky. Massive. some brec frags at depth.

SS (1) - Clear/ Grays/ tr Green. Mot/Mixed Sil/ VF qtz & tr glauc grains. SA/ SR. Mod sort & sph. Vitreous / 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. ---->

----- VIOLA 4,896' (-3,453')

rare / few pcs: 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.





rare / few pcs: 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. rare Re-xln. Massive. No/ tr vis por

SH - Green/ Greenish Gray/ Blue Green. Sing. Firm. Massive. tr ductile. tr sandy as below.

WILCOX "C" SS 5,022' (-3,579')

SS (2) - Clear/ Pale Greenish Gray/ Off White/ tr Tan. Mot. VF- / tr silt sized qtz grains, tr glauc grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Dol/ tr sil cement. some Point/ mostly sutured grain contact. tr argil in part. partly Friable. Fair/ good vis por. ----->

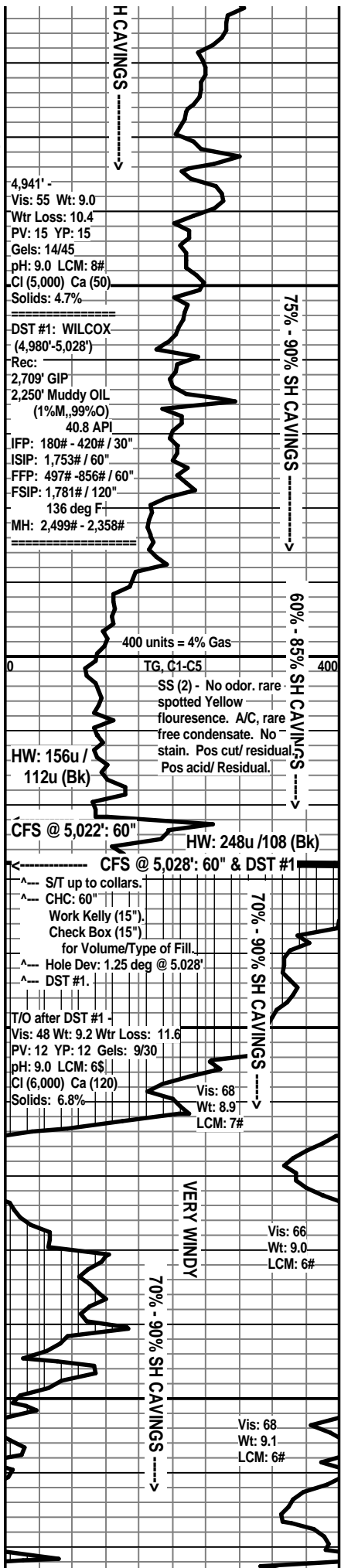
SS (3) - mostly Clear/ rare Lt Brownish Tan. Mot. VF- / tr silt sized qtz grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Calc/ tr sil cement. some/ highly sutured grain contact. some SR, VF obliterated argil grains & carb flecks in part. partly Friable. Fair/ Good vis por. ?/ Faint odor. mix of Barren/ mostly spotted Yellow fluorescence. A/C, no to rare free oil. On own & A/C, free minute gas bubbles. No/? stain. Pos cut & residual. Pos acid & residual.

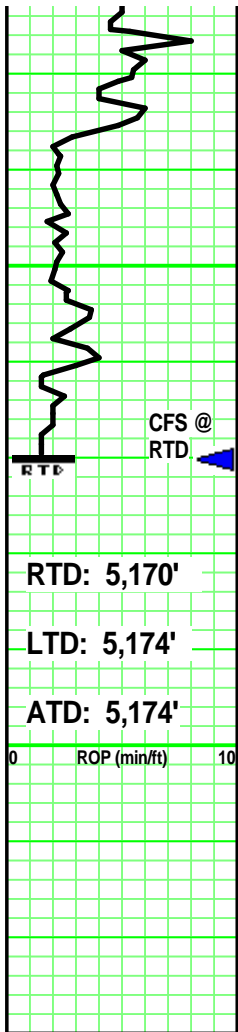
Interbedded SH & SS

SH - Gray/ Greenish Gray. Sing. tr sandy.

SS - similar to above. misc brecc frags.

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





RTD: 5,170'

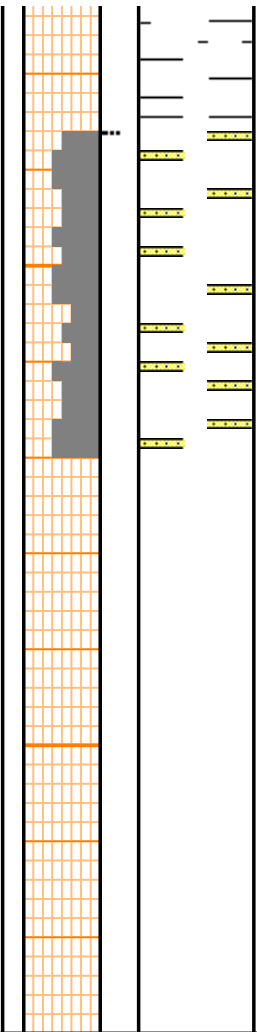
LTD: 5,174'

ATD: 5,174'

0 ROP (min/ft) 10

5150

5200

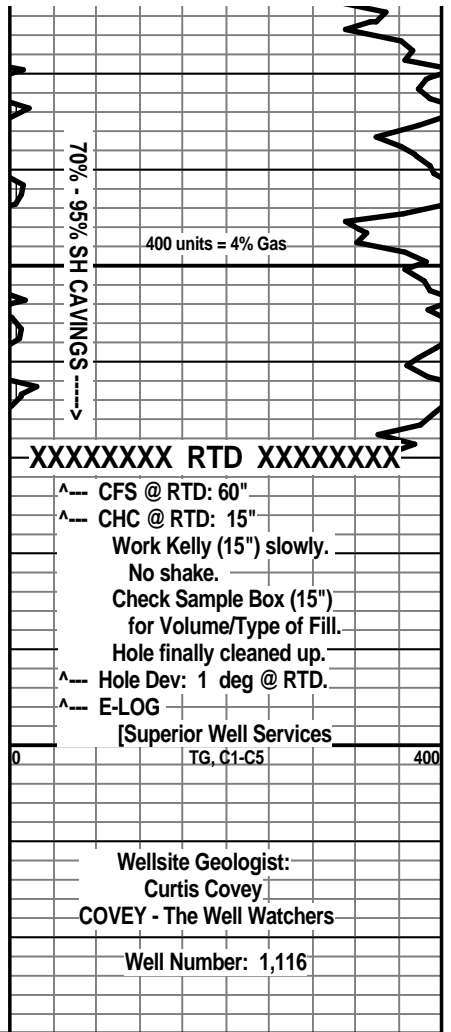


few pcs SS - Clear/ Pale Lt Gray. Mot. Silt/ VF/ tr F qtz grains. SA/SR. Mod sort. Mod sph. Frosted luster. Sutured grains contact. Si cement/ infill. rare/ tr (silt/VF sized, SA) argil / feldspar frags. rare minute pyrite. mostly Friable. Tr/ Fair vis por.

SPICER A - 3

1,980' FNL & 660' FEL 2-T34S-R11W
Barber County, Kansas

WOOLSEY OPERATING COMPANY
Wichita, Kansas



XXXXXXX RTD XXXXXXXX

^ CFS @ RTD: 60"

^ CHC @ RTD: 15"

Work Kelly (15") slowly.

No shake.

Check Sample Box (15")

for Volume/Type of Fill.

Hole finally cleaned up.

^ Hole Dev: 1 deg @ RTD.

^ E-LOG

[Superior Well Services

TG, C1-C5

Wellsite Geologist:

Curtis Covey

COVEY - The Well Watchers

Well Number: 1,116

0 400