



KANSAS CORPORATION COMMISSION 1078585
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 # 33168
Name: Woolsey Operating Company, LLC
Address 1: 125 N MARKET STE 1000
Address 2: _____
City: WICHITA State: KS Zip: 67202 + 1729
Contact Person: DEAN PATTISSON
Phone: (316) 267-4379
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: BILLY KLAVER
Purchaser: PLAINS MARKETING / ATLAS PIPELINE

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 #: _____
12/13/2011 12/19/2011 01/31/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-007-23812-00-00
Spot Description: _____
N2 SW SW Sec. 10 Twp. 35 S. R. 12 East West
990 Feet from North / South Line of Section
660 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barber
Lease Name: PLATT GU Well #: 5
Field Name: HARDTNER
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1403 Kelly Bushing: 1418
Total Depth: 5610 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 216 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: 29500 ppm Fluid volume: 1800 bbls
Dewatering method used: Evaporated
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: Deanna Garrison Date: 04/25/2012



1078585

Operator Name: Woolsey Operating Company, LLC Lease Name: PLATT GU Well #: 5
 Sec. 10 Twp. 35 S. R. 12 East West County: Barber

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 checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compensated Density/Comp Neutron PE Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;">Name</td> <td style="width:33%; border: none;">Top</td> <td style="width:33%; border: none;">Datum</td> </tr> <tr> <td style="border: none;">Attached</td> <td style="border: none;">Attached</td> <td style="border: none;">Attached</td> </tr> </table>	Name	Top	Datum	Attached	Attached	Attached
Name	Top	Datum					
Attached	Attached	Attached					

CASING RECORD <input checked="" 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-	CLASS A	100	2% GEL, 3% CC
	-			

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
4	5381-8386 SIMPSON	700 gal 10% MIRA & 1500 gal 7.5% NEFE	5381-8386
		5.5" CIBP to isolate Simpson	5370
4	4828-4833 & 4868-4918 MISSISSIPPIAN	3300 gal 10% MIRA	4828-4918 OA
2	4850-4861 MISSISSIPPIAN	377,286 gal treated 2% KCl wtr, 110,100# 30/70 sd, 48,400# 16/30 sd & 12,000# 16/30 resin coated sd	4828-4918 OA

TUBING RECORD: Size: <u>2.875 x 6.5#</u> Set At: <u>4973</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>03/14/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>55</u>	Gas Mcf <u>80</u>	Water Bbls. <u>220</u> Gas-Oil Ratio <u>1455</u> Gravity <u>21</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" 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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>4828-4918 OA</u>
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	PLATT GU 5
Doc ID	1078585

Tops

Top	Depth	Offset
CHASE	1952	-534
WABAUNSEE	2874	-1456
LECOMPTON	3639	-2221
HEEBNER	3865	-2447
DOUGLAS	3905	-2487
SWOPE LS	4583	-3188
PAWNEE	4753	-3335
MISSISSIPPIAN	4849	-3431
VIOLA	5269	-3851
SIMPSON	5381	-3963

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	PLATT GU 5
Doc ID	1078585

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	14.75	10.75	32.75	216	CLASS A	240	2% GEL, 3% CC
INTERMEDIATE	9.875	8.375	23	896	CLASS A	100	2% GEL, 3% CC
PRODUCTION	7.875	5.5	15.5	5533	60/40 POZMIX	50	4% gel, 1/4# Celoflake
PRODUCTION	7.875	5.5	15.5	5533	CLASS H	125	10% salt, 10% Gypseal, 6# Kolseal, 1/4# Celoflake, .8% fluid loss

ALLIED CEMENTING CO., LLC. 037983

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

SERVICE POINT: *Woolsey*

DATE <i>12-11-11</i>	SEC <i>10</i>	TWP <i>35S</i>	RANGE <i>12W</i>	CALLED OUT	ON LOCATION	JOB START <i>10:30pm</i>	JOB FINISH <i>11:00pm</i>
LEASE <i>Plot 6U</i>		WELL # <i>5</i>		LOCATION <i>Hardmer, KS, 1/4 E, S 30 to</i>		COUNTY <i>Barber</i>	STATE <i>KS</i>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Duke RB #7*

TYPE OF JOB *Surface*

HOLE SIZE <i>14 3/4</i>	T.D. <i>220'</i>
CASING SIZE <i>10 7/8</i>	DEPTH <i>216'</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <i>400psi</i>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>20'</i>	
PERFS.	
DISPLACEMENT <i>19 bbls H₂O</i>	

OWNER *Woolsey operating*

CEMENT

AMOUNT ORDERED *240 sacks A + 3 1/2 cu + 2 1/2 cu*

COMMON	<i>240 sacks "A"</i>	@	<i>16.25</i>	<i>3900.00</i>
POZMIX		@		
GEL	<i>5 sacks</i>	@	<i>21.25</i>	<i>106.25</i>
CHLORIDE	<i>9 sacks</i>	@	<i>58.20</i>	<i>523.80</i>
ASC		@		

WELL FILE

Regulatory Correspondence			
Workovers			
Drig Comp			
Operations			
Tests / Meters			
HANDLING	<i>254</i>	@	<i>2.25</i>
MILEAGE	<i>254 x .11 x 20</i>		<i>558.80</i>
TOTAL			<i>\$5110.35</i>

EQUIPMENT

PUMP TRUCK	CEMENTER <i>not shown</i>
# <i>358265</i>	HELPER <i>Jason Thoresch</i>
BULK TRUCK	
# <i>364</i>	DRIVER <i>Adam Miller</i>
BULK TRUCK	
#	DRIVER

REMARKS:

Bld case pump 3 bbls H₂O ahead

mix 240 sacks cement

disg 19 bbls H₂O shut in

cement did circulate

CHARGE TO: *Woolsey operating*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<i>216'</i>		
PUMP TRUCK CHARGE			<i>1125-</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>40</i>	@	<i>7.00</i>
MANIFOLD		@	
LV	<i>40</i>	@	<i>4.00</i>
TOTAL			<i>\$155-</i>

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.

PRINTED NAME *Donald Boyd*

SIGNATURE *Donald Boyd*

SALES TAX (If Any) _____

TOTAL CHARGES *\$7225.35*

DISCOUNT *200* IF PAID IN 30 DAYS

Net \$5780.28

ALLIED CEMENTING CO., LLC. 037908

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

SERVICE POINT:
Medicine Lodge, Ks

DATE <u>12-15-2011</u>	SEC. <u>10</u>	TWP. <u>36S</u>	RANGE <u>12W</u>	CALLED OUT <u>4:30 AM</u>	ON LOCATION <u>7:00 AM</u>	JOB START <u>4:00 PM</u>	JOB FINISH <u>4:45 PM</u>
LEASE <u>P19+6U</u>	WELL# <u>5</u>	LOCATION <u>Hg rather Ks 1/4 east</u>		COUNTY <u>39rbor</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>South into</u>			

CONTRACTOR Duke #7

TYPE OF JOB Intermediate Surface

HOLE SIZE 8 5/8" T.D. 900'

CASING SIZE 8 5/8" DEPTH 899'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 32'

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 56 bbls of Fresh water

EQUIPMENT

OWNER Woolsey Operating

CEMENT AMOUNT ORDERED 100 Sx Class 12 + 3% loss

2% loss

COMMON <u>100 sacks "A"</u>	@ <u>16.25</u>	<u>1625.00</u>
POZMIX _____	@ _____	_____
GEL <u>2 sacks</u>	@ <u>21.25</u>	<u>42.50</u>
CHLORIDE <u>4 sacks</u>	@ <u>58.20</u>	<u>232.80</u>
ASC _____	@ _____	_____

PUMP TRUCK # <u>471-302</u>	CEMENTER <u>Darin F</u>
BULK TRUCK # <u>421-252</u>	HELPER <u>Carl B.</u>
BULK TRUCK # _____	DRIVER <u>Aden M.</u>
BULK TRUCK # _____	DRIVER _____

WELL FILE

Regulatory Correspondence
 (Orig) @ Comp Workovers
 Tests @ Meters Operations

HANDLING <u>106 x 2.25</u>	@ <u>(mm)</u>	<u>344.00</u>
MILEAGE <u>20 x 106 x .11</u>		<u>233.20</u>
TOTAL		<u>\$2477.50</u>

REMARKS:

Pipe on bottom & block circulation
pump 3 bbls water shear mix loss
of cement, shut down, Release plug
stara displacement, Pump Ave 9'
56 bbls 500 psi, Shut in

SERVICE

DEPTH OF JOB <u>899'</u>		
PUMP TRUCK CHARGE		<u>1125-</u>
EXTRA FOOTAGE <u>599'</u>	@ <u>.95</u>	<u>569.05</u>
MILEAGE <u>40</u>	@ <u>7.00</u>	<u>280-</u>
MANIFOLD <u>Hesdrendy</u>	@ _____	_____
<u>light vehicle</u>	<u>40</u> @ <u>4.00</u>	<u>160.00</u>

CHARGE TO: Woolsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL \$2134.05

PLUG & FLOAT EQUIPMENT

8 5/8

<u>1- Rubber Plug</u>	@	<u>112.00</u>
<u>1- Baffle Plate</u>	@	<u>112.00</u>
_____	@	_____
_____	@	_____

TOTAL \$224.00

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 \$4835.55

DISCOUNT 20% IF PAID IN 30 DAYS

PRINTED NAME x Donald Boyd

SIGNATURE x Donald Boyd

Net \$3868.44

Thank you!!!

ALLIED CEMENTING CO., LLC. 037912

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

SERVICE POINT:
Medicine Lodge, KS
12-21 12-21

DATE <u>12-20-11</u>	SEC. <u>10</u>	TWP. <u>36S</u>	RANGE <u>12W</u>	CALLED OUT <u>3:00 pm</u>	ON LOCATION <u>9:00 pm</u>	JOB START <u>2:30 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>P1st + GV</u>		WELL # <u>5</u>	LOCATION <u>Hoydeners 1/4 east</u>		COUNTY <u>Burber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>South into</u>				

CONTRACTOR Duke #7
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5610'
 CASING SIZE 5 1/2 IS. 54 DEPTH 5521'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 42'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 132 bbls of 2% KCL water
 EQUIPMENT _____

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 90 SK 60' 40' 40' 60'
125 SK C/CS.H + 10% G.V.P. + 10% S.P.L.
6# Kalsol + 8% F.L.L. + 1/4# P.W.S.S.I.
14551s. C/9 PRO
 COMMON 54 SACKS "A" @ 16.25 877.50
 POZMIX 36 SACKS @ 8.50 306.00
 GEL 3 SACKS @ 21.25 63.75
 CHLORIDE @ _____
 ASC @ _____
 Class H - 125 SACKS @ 19.25 2406.25
 C/9 PRO - 12 SACKS @ 34.70 416.40
 Salt - 13 SACKS @ 12.00 156.00
 Kalsol - 750 # @ .89 667.50
 FI-1160 - 94 # @ 17.20 1616.80
 Flo Seal - 25 # @ 2.70 67.50
 Clo-pro - 14 GALS @ 31.25 437.50
 @ _____
 HANDLING 211 @ 2.25 587.25
 MILEAGE 20 X .11 X 261 _____ 574.20
 TOTAL \$8170.65

PUMP TRUCK CEMENTER Darin F.
 # 360-265 HELPER Jason T.
 BULK TRUCK
 # 363-290 DRIVER Adam M.
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Pipe on bottom & break circulation
mix 40% of cement for 2st mouse hole
mix 50 SK of 8CSVENSER Cement, mix
125 SK of 1st cement shut down, wash
pump & lines, Release Plug, Start displacement,
1 ft pressure @ 90 bbls, slow rate to
3 bpm @ 120 bbls, bump plug @ 132 bbls
1000-1700 psi, float & 12 hold

SERVICE
 DEPTH OF JOB 5521'
 PUMP TRUCK CHARGE _____ 2145-
 EXTRA FOOTAGE @ _____
 MILEAGE 40 @ 7.00 280-
 MANIFOLD Hesarensi @ _____ 200-
 @ 40 @ 4.00 160-
 @ _____
 TOTAL \$3,335-

CHARGE TO: Woolsey Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____
WELL FILE
 Regulatory Correspondence _____
 Drig / Comp Workovers _____
 Tests / Meters Operations _____

5 1/2 PLUG & FLOAT EQUIPMENT
1-AEV Plug + shoe @ _____ 349.00
1-Latch Down Plug @ _____ 277.00
12-Turbolizers @ 80 960-
28-Scratchers @ 76 2188-
 @ _____
 TOTAL \$3714.00

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SALES TAX (if Any) _____
 TOTAL CHARGES \$15,219.65
 DISCOUNT 200 IF PAID IN 30 DAYS
Net \$12,175.72

PRINTED NAME x Donald Boyd
 SIGNATURE x Donald Boyd
Thank you!!!



Woolsey Operating Company, LLC

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

Well Name: Platt GU #5
Location: Section 10 - Township 35 South - Range 12 West
License Number: 15-007-23812-00-00 **Region:** Barber County KS
Spud Date: December 13, 2011 **Drilling Completed:**
Surface Coordinates: 990' FSL, 660' FWL or N 1/2 SW SW
Hardtner Field
Bottom Hole Coordinates: Verticle Hole
Ground Elevation (ft): 1405' **K.B. Elevation (ft):** 1418'
Logged Interval (ft): 4000' **To:** **Total Depth (ft):**
Formation: Kansas City → Simpson Group
Type of Drilling Fluid: Chemical Mud
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Set 5 joints of 10 3/4' X 32.75#/ft new casing to 216' KB (tally 200') with 240 sx Class A, 2% gel, 3% cc. Cement did circulate. Lost returns, ran 20 joints of 8 7/8" X 23#/ft new casing to 896' KB, (tally 882') with 100 sx Class A, 2% gel, 3% cc. Cement did not circulate.

Production Casing: 5 1/2" X 16.5#/ft

Deviation Surveys: 1/2 at 220', 1/2 at 522', 1/2 at 900', 1/2 at 1523', 1/2 at 2022', 1/2 at 2526', 1/2 at 3060', 3/4 at 3625', 1 at 4126', 2 at 4598'. Additional surveys see detail.

Pipe Strap @

Duke Drilling Rig 7 Bit Record:

#1 14 3/4" HTC CT-C1 in at 0' out at 217', 217' in 3.25 hours.

#2 7 7/8" HTC DP506F in at 217', out at

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud-Co. Brad Bortz, Engineer

Open Hole Tests:

OH Logs: Superior Well Service: Dual Induction Laterolog w/SP, CNL-FDC w/PE, Gamma Ray and Caliper.

In House Geologist: Dean Pattison

Draw Works: National 370

Mud Pump: National K-500 6"X15"

DSTs

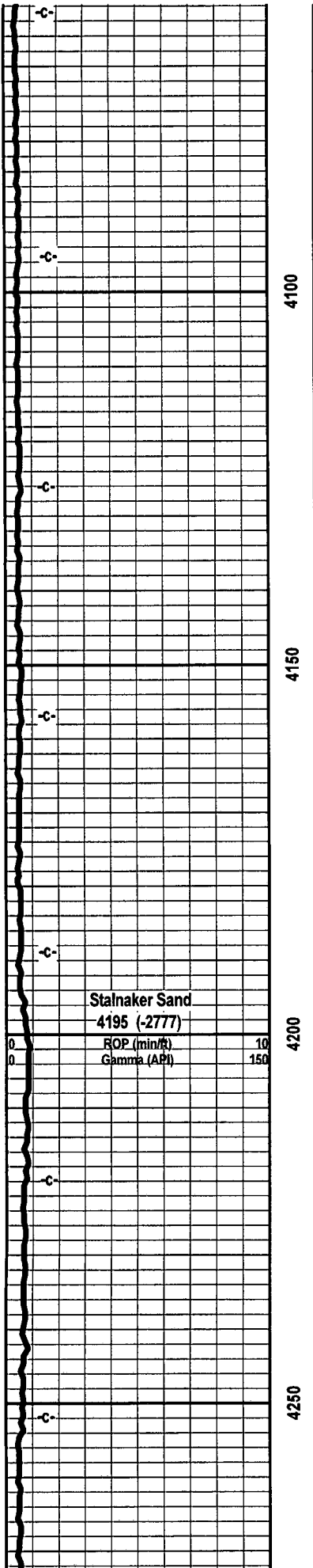
CREWS

Gaylen Roach, Tool Pusher

Craig Mertens, Morning

Shane Meitler, Days

Steven "Skippy" Green, Evening



from 4600' to rotary total depth and delivered to the Survey at the completion of the test.

7 am Daily Progress:

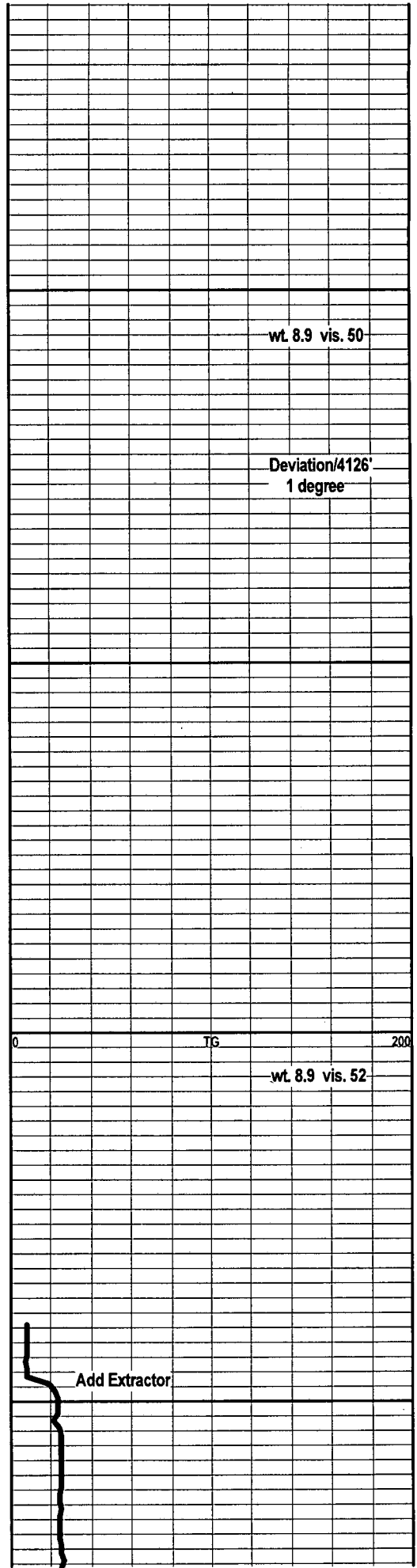
- December 13, 2011 MIRT/SPUD
- December 14, 2011 WOC, drill plug 8 am
- December 15, 2011 Running 8 5/8"
- December 16, 2011 Drilling at 1485'
- December 17, 2011 Drilling at 2985'
- December 18, 2011 Drilling at 4570'
- December 19, 2011
- December 20, 2011

wt. 8.9 vis. 50

Deviation/4126'
1 degree

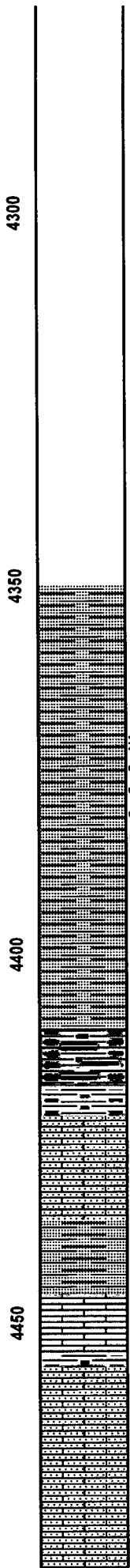
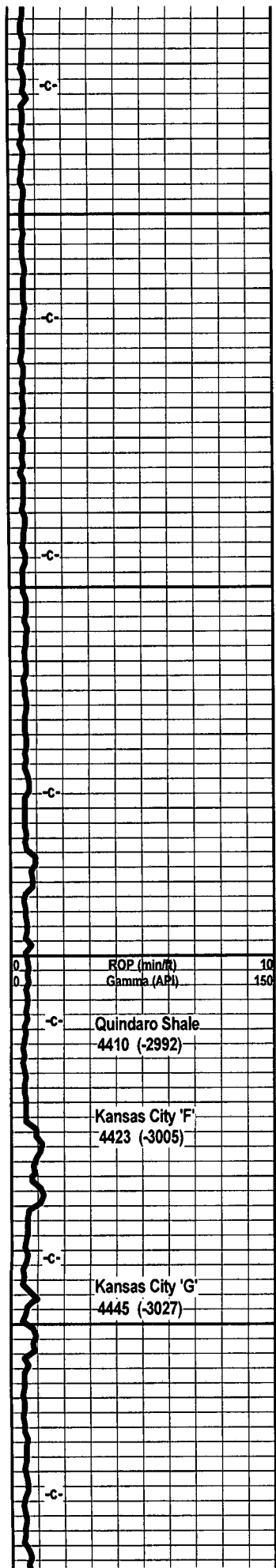
E-Log Tops:

- Herington
- Onaga
- Wabaunsee
- Topeka
- Lecompton
- Kanwaka
- Elgin Sand
- Heebner
- Toronto
- Douglas Grp
- Douglas Shale
- Haskell
- Stalnaker
- Quindaro Shale
- Kansas City 'F'
- Kansas City 'G'
- Kansas City 'I'
- Stark
- Swope
- Hushpuckney
- Hertha
- B/Kansas City
- Altamont



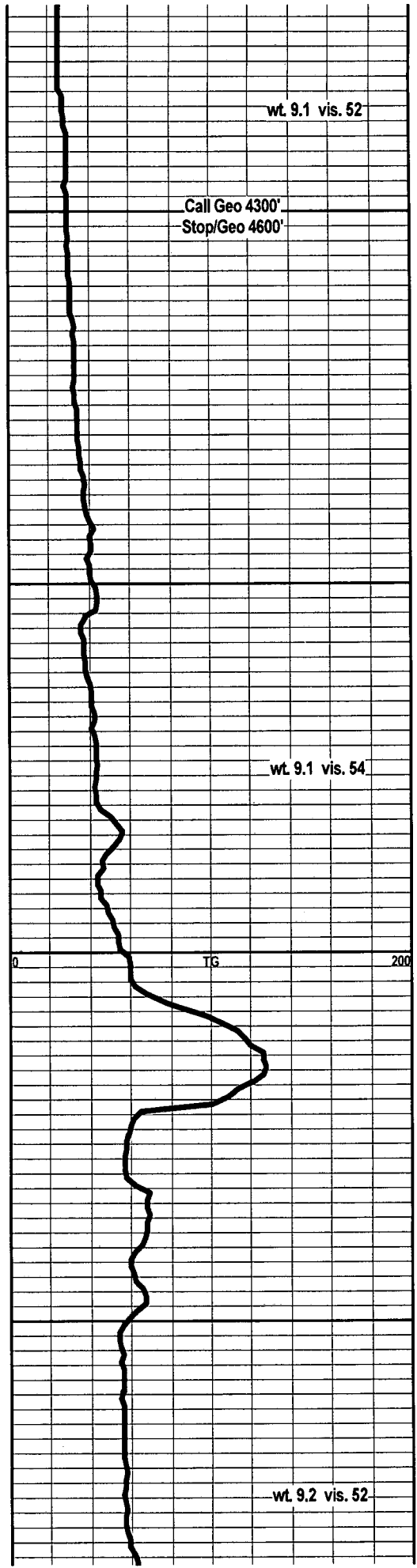
wt. 8.9 vis. 52

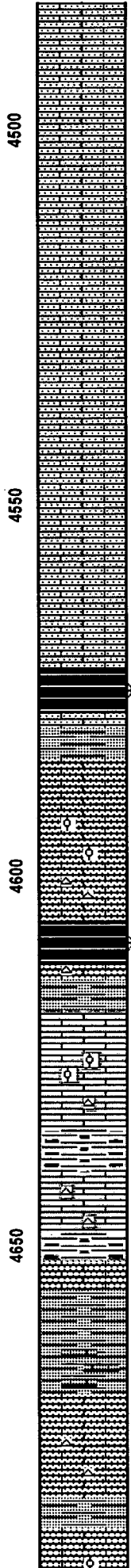
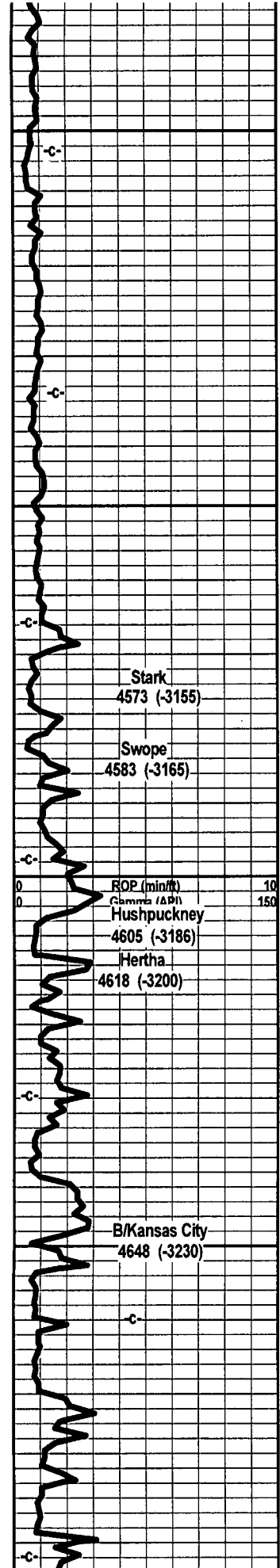
Add Extractor



- Pawnee
- Cherokee Grp
- Cherokee Sand
- Mississippi
- C3
- C2A
- C2
- C1
- Osage
- Northview Shale
- Compton
- Kinderhook
- Woodford
- Misener
- Viola
- Simpson Group
- Simpson 'D' Sand
- Wilcox Sand
- McLish Sand
- RTD

- Oil/Gas Show Legend
- Gas
 - Even Stain/Saturation
 - Spotted Stain/Saturation
 - Questionable
 - Dead/Gilsonitic



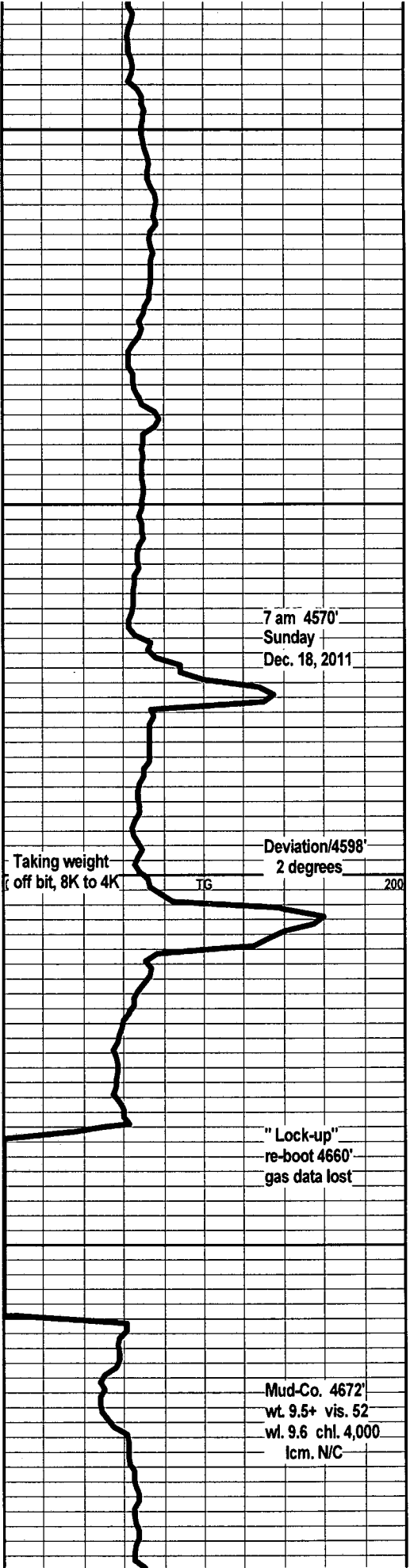


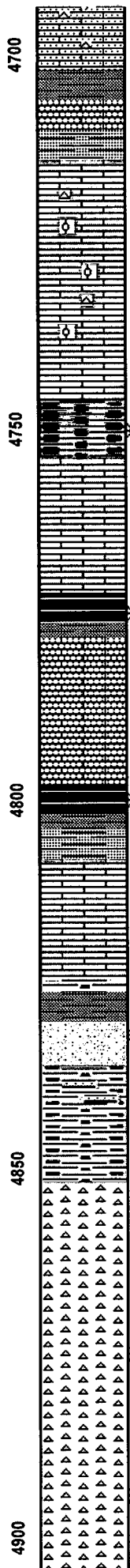
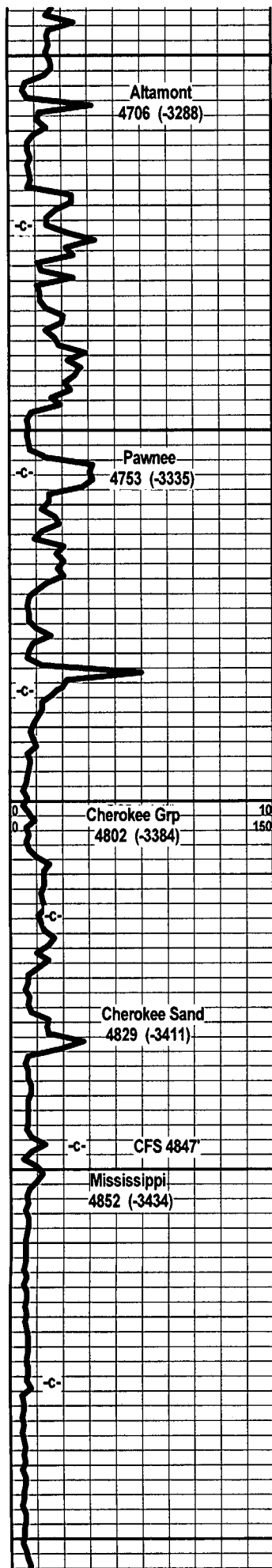
shl gry blk, bk carb, wxy grsy, gas bubs. 1st wht crm buff f sli med xln gran flky, sub chiky, foss frags, pelletal, tr micro ool, calc xln fill, tr chrt wht shrp frsh opa

shl gry blk carg, wxy, grsy, abun gas bubs, tr gry silty calc, 1st wht off wht buff tan f sli med xln, blk flky, sub chiky, foss frags, pelletal, micro ool in prt, calc xln fill

shl gry gry brn calc, silty, gritty, 1st tan crm buff tr it brn f sli med lxn gran flky sub chiky foss frags, foss ool, calc xln fill, chrt tan wht shrp frsh opa

1st crm tna buff, lt gry brn in prt, f sli med xln, blk flky, sub chiky, foss frags, chrt wht off wht shrp frsh opa blk, 1st gry med gry silty gritty, calc in prt,





shl gry med gry gry green, silty gritty sndy in prt, calc in prt, lst tan buff wht f sli med xin blkly flky chlky gran, calc xin fill, tr chrt wht lt gry shrp frsh foss

lst crm buff tan f xin blkly flky, tr sub chlky, mstly dns hrd blkly, foss frags, micro ool, pettetal, chrt wht off wht shrp frsh opa

shl gry med gry blk, tr blk carb text, lst wht off wht buff, f xin blkly ang dns hrd, tr sub chlky, foss frags, micro ool, tr pelletal

shl gry drk gry blk, blk carb, wxy grsy, gas bubs, lst tan dull gry tan f vf xin dns hrd blkly, tr sub chlky, tr micro foss frags,

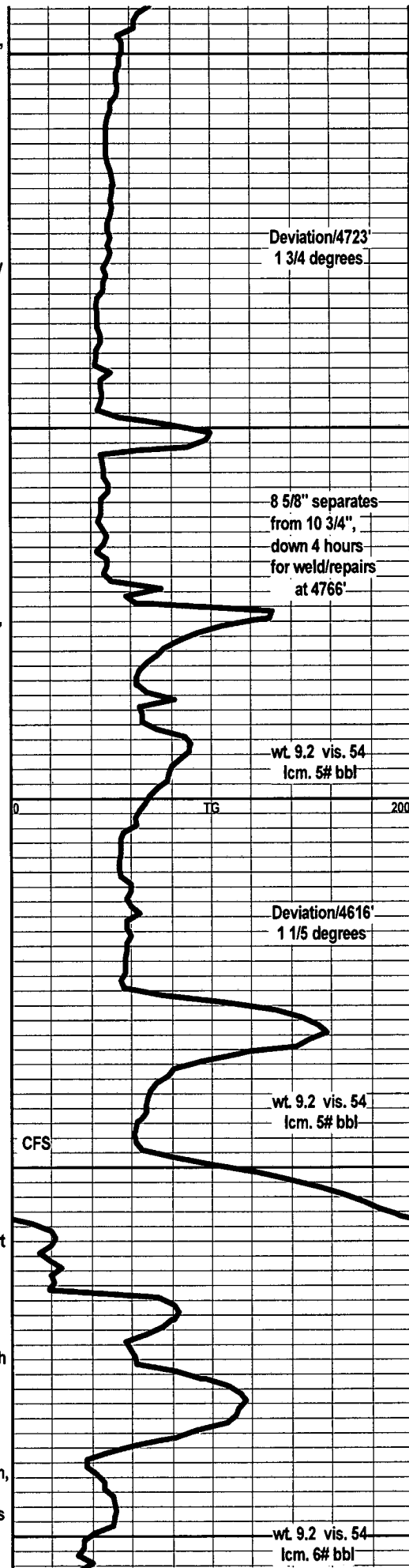
shl gry med gry silty gritty calc, much blk carb, wxy grsy, gas bubs, lst tan buff, dull tan lt gry f vf xin dns hrd, blkly tr sub chlky, micro foss frags, tr chrt wht shrp frsh opa blkly tr foss

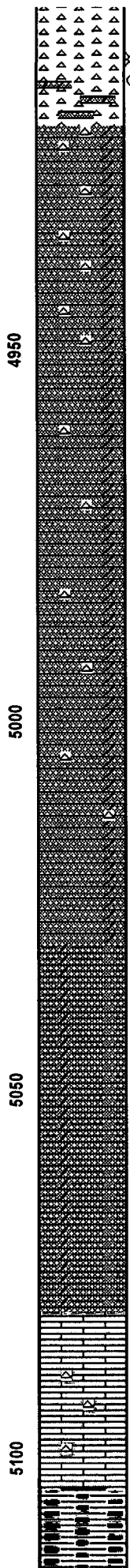
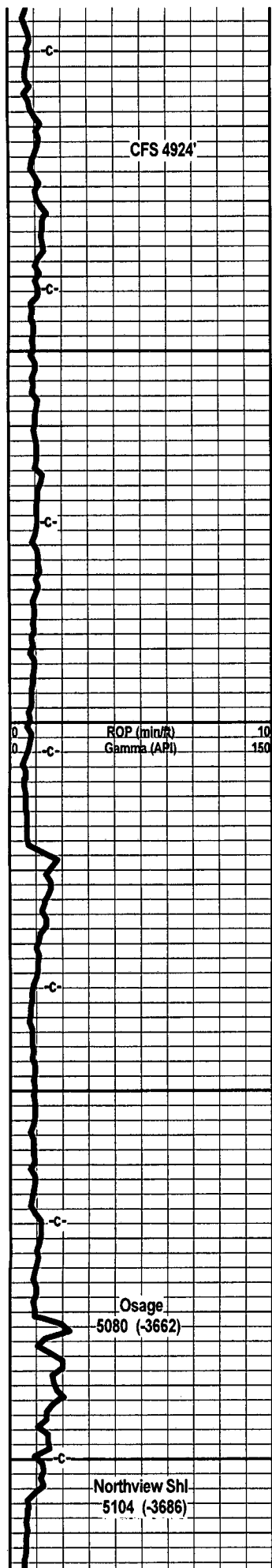
sst drk brn, brn blk, f vf grnd, sub ang, rded grns, v/w srted, sub fria, well to pry cem, calc cem, tr clay fill, tr arg, tr calc in prt, tr inter grain por, abun gas bubs, drk blk stain, filmy SFO/brken, nodor

chrt off wht lt tan gry, tr smokey, shrp frsh, blkly opa, with wht soft trip text edge, lt green clay fill, wht lt tan brn trip spongy text along frsh chrt edge, pp moldic por, blk stain, blk SFO w/brkn, gas bubs, fair odor, dull UV

chrt wht off wht gry tan mott, weath, gran, soft, sub chlky trip text, weath trip spongy text, weath trip text along shrp frsh chrt edge, gd pp/vug/moldic por, fair odor, blk stain, drk brn/blk SFO, gas bubs,

chrt off wht lt gry tr smokey, incr frsh with depth, chrt aa with weath sli chlky trip edge text, pp/moldic/vug por, fair stain, brn stain, SFO, gas bubs, tr druzi qrtz, fair to gd odor, dull UV, chrt tan brn mott, weath trip text, pp/gd moldic/vug





por, SFO, abun gas bubs, dull UV, sho is less dark, less grsy, chrt lt gry off wht shrp, frsh, transl, foss, blk opa

chrt aa, dolo gry green, f vf xln dns hrd blk, silic in prt, glau in prt, chrt, chrt inclu, tan brn stain, SFO along chrt/dolo contact,

dolo lt gry f vf xln gran silty gritty, silic text, blk dns hrd, chrt in prt, chrt wht lt gry shrp frsh opa, tr stain, tr gas bubs, dull spotted UV, nodor

dolo lt gry tr drkr, f vf xln dns hrd blk, silic in prt, tr micr sucr, silty gritty, chrt in prt, tr chrt wht off wht gry, shrp frsh opa transl, tr tan brn stain, nodor

dolo lt gry f vf xln blk dns hrd gritty, silty, tr silic text, chrt in prt, chrt wht lt gry shrp frsh, opa

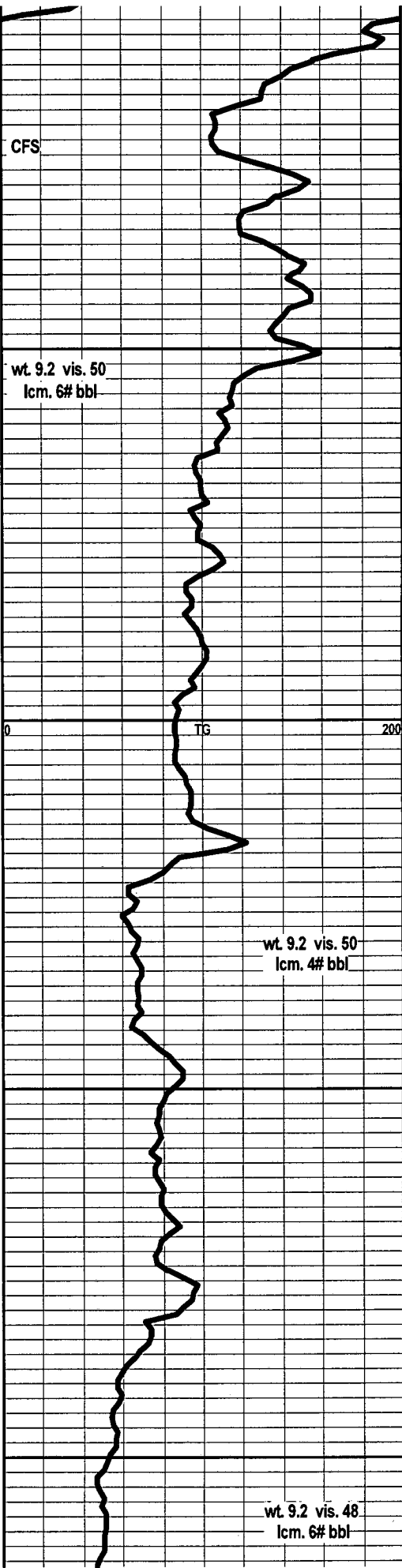
dolo gry med gry, drkr with depth, f vf xln dns hrd blk, incr silty gritty arg, tr chrt, lt gry smokey shrp frsh opa

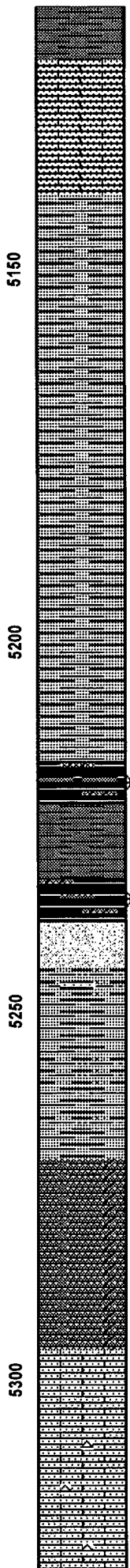
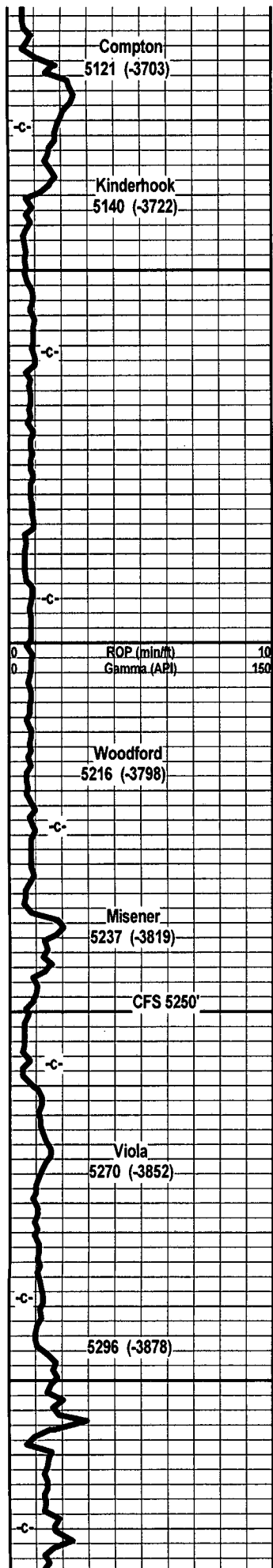
dolo, silty gritty calc dolostn, f vf xln dns hrd blk, arg, incr drkr w/depth, silty gran,

dolo, f vf xln, tr silic text in prt, silty calc dolostn in prt, gry drk gry, silty, gritty, f xln dns hrd blk arg

dolo, gry drk gry, silty, gritty, calc dolostn in prt, arg, blk, f vf xln, tr silic text in prt

lst wht off wht, f sli med xln ran sub chlky tr micro foss frags, chrt in prt, chrt wht lt gry shrp frsh opa, shl gry green drk gry green silty gritty





shl gry drk gry green/blk, silty gritty calc in prt, 1st wht off wht, tr gry lt green tint, f sli med xln, blkly flky sub chlky, tr foss frags,

shl gry grk gry blk, drk gry green, silty, gritty, bedded, pyritic bands

shl drk gry blk, gry green, silty gritty, bedded, tr pyritic bands

shl gry drk gry, brn blk, silty, sli gritty, pyritic in prt, tr gas bubs

shl drk brn, reddish brn/blk, dolo in prt, silty, gritty, dull copper ppt, blk carb text in prt, abun gas bubs

shl drk gry, brn reddish brn/blk, tr blk carb text, pyritic, copper nodules, dolo in prt, silty gritty, bleeding gas

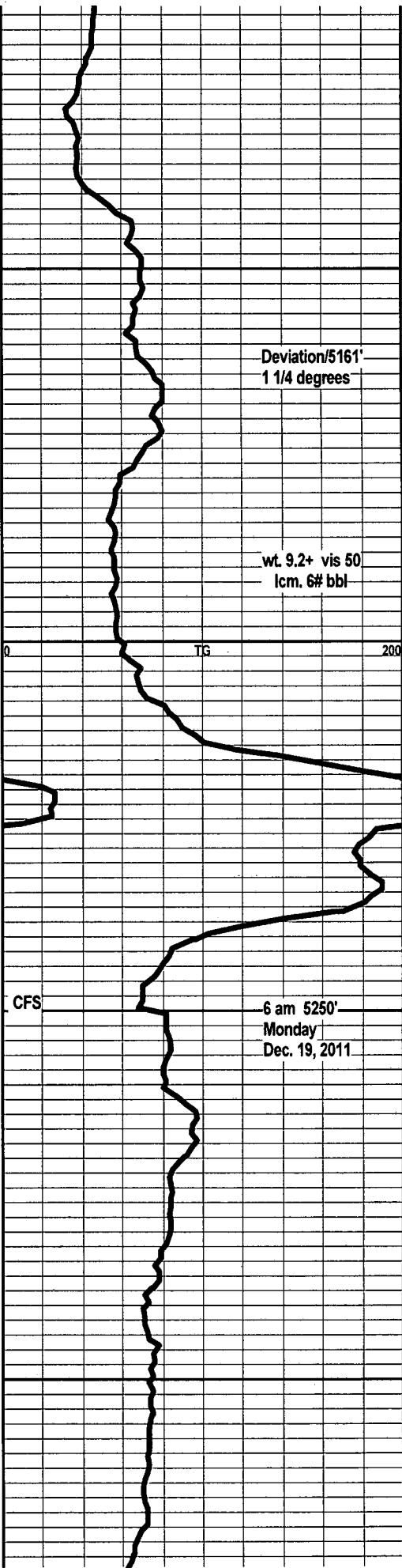
sst wht clr clstrs, f sli med grnd, ang qtz grns, prty srted, calc fill, min fill, tr calc xln fill, tr arg, tr carb foss fill, tr pyritic, inter grn por, no show

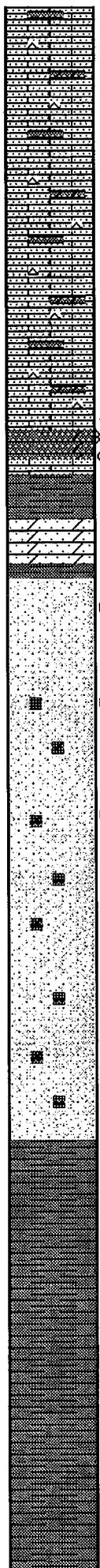
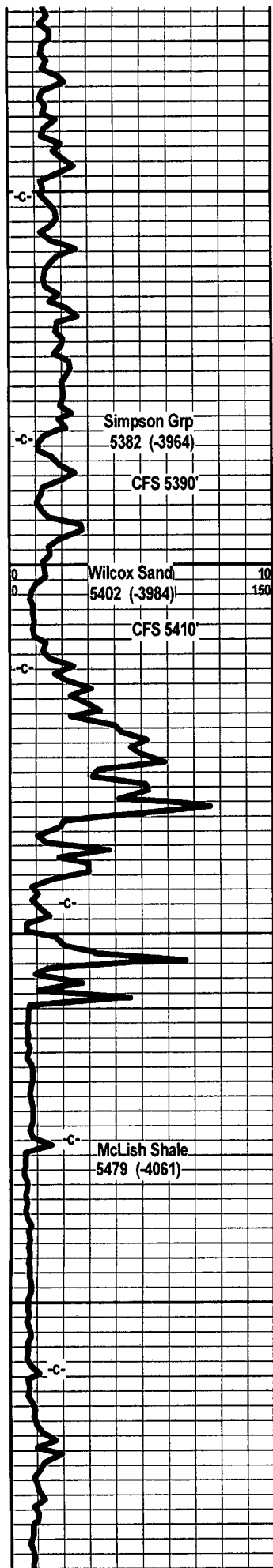
shl gry med drk gry, lt gry green, silty gritty, soft mushy, fnly gritty, sny, tr snd gm inclu, pyritic in prt

shl dolo calc shls, gry med gry, soft, gran mushy, gritty, gran,

1st wht off wht, gry lt green tint, f sli med xln, blkly, flky, tr sub chlky, inter xln por, tr pyritic fill, chrtly in prt, chrt wht shrp frsh opa

1st wht off wht lt gry tint, f med xln, blkly flky, ang, tr sub chlky, tr foss frags, vis inter xln por,





tr crs calc xln fill, tr min/pyritic fill, chrty in prt, chrt wht shrp frsh opaq transl

lst, dolo in prt, tan dull tan brn, f vf xln, blkly dns hrd, ang, tr sub chlky, tr foss frags, gran, chrty, chrt dull gry tan shrp frsh opaq foss

lst dolo in prt, gry dull tan, tan gry/brn mott, f vf xln gran, blkly, dns hrd, sub chlky in prt, tr suc text, chrty in prt, chrt dull tan gry shrp frsh opaq

dolo tan brn f sli med xln, gran, soft, sli suc text, tr sndy text, sub chlky in prt, fair inter xln por, pp/moldic por, brn stain, sli odor, SFO, dull UV.

shl green, teal green, slick, wxy, snd grn inclu, pyritic, sst gry green f grnd, sub ang grns, prty srted, w/cem, silic cem, min fill pyritic

sst clr lt tan lt gry clstrs, f grnd, sub ang/rded grns, w/srtd, prty cem, fria, inter grn por, min fill, tr clay fill, arg, flky dead stain, nodor, no live sho

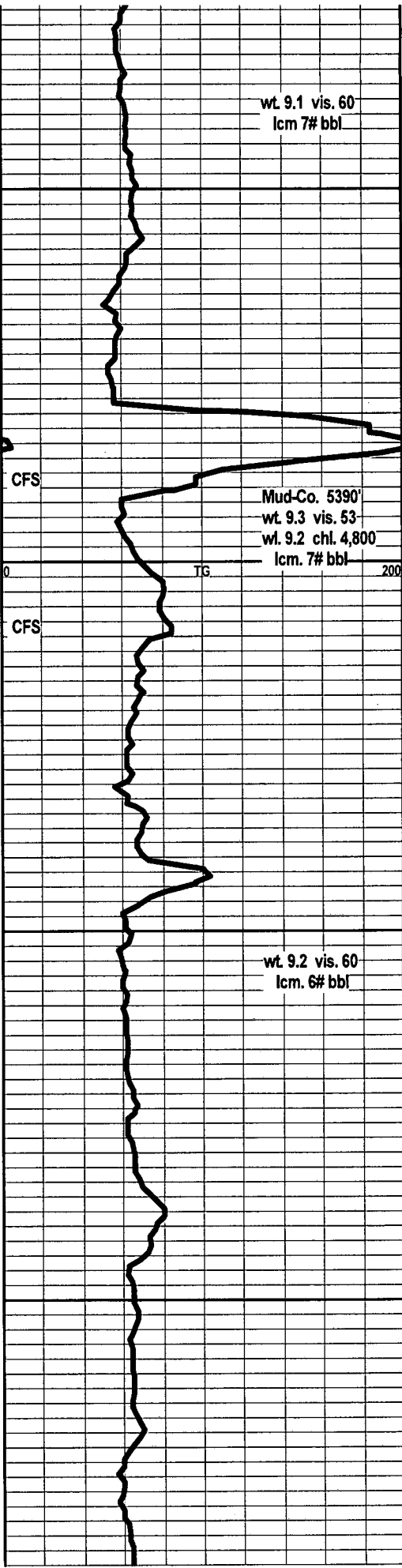
sst wht lt gry clstrs, f grnd, sub ang/sub rded grns, w/srtd, fair to w/cem, sub fria, inter grn por, tr min fill, tr clay fill, tr tan brn dolo xln fill, blk dead flky stain, NSFO, nodor, no live show

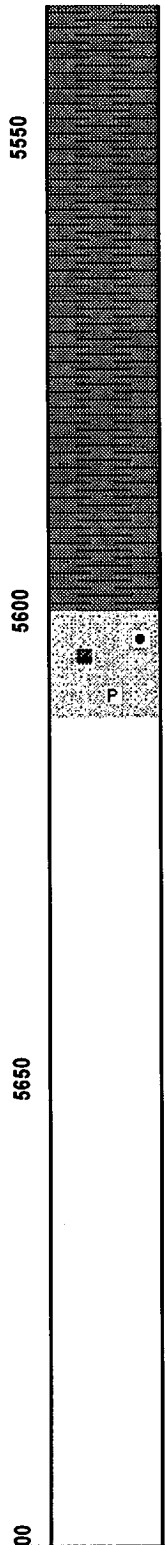
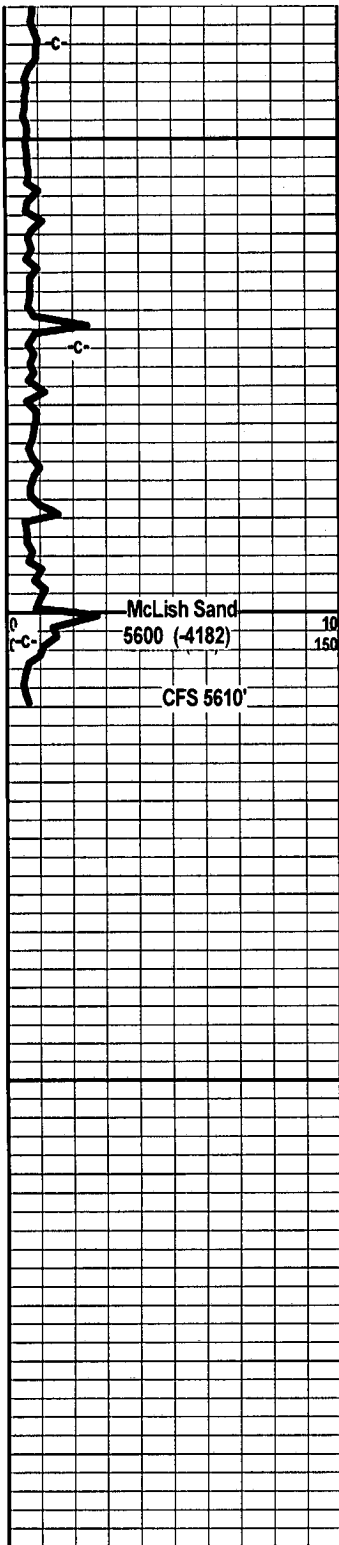
sst wth lt gry, tan brn tint clstrs, f grnd, sub ang/sub rded grns, w/srtd, sub fria, prty to fair cem, tr calc cem, tr tan brn dolo xln fill, min fill in prt, dead blk gilsonitic flky stain, no live show

sst wht off wht tr lt gry clstrs f grnd, sub ang, tr sub rded grns, w/srtd, prty cem, silic cem, fria to sub fria, inter grain por, min fill, tr tan lt brn dolo xln fill, tr clay fill, arg, blk dead flky stain NS

shl gry lt gry green teal green, silty gritty, sndy, snd grn inclu, glau

shl gry lt gry green, teal green, silty, sndy, gritty, glau, abun snd grn inclu





shl gry drk gry green, teal green, silty sndy, gritty, glau, snd grn inclu

shl gry me gry, gry green, teal green, silty gritty, sndy, snd grn inclu, glau, pyritic

sst clr, tan, lt gry, tr brn clstrs, f sli med grnd, sub rded/rded grns, prly srtd, vry prly srtd in prt, sub fria, mstly tite dns blkly clstrs, clay fill, clay clasts, tr tan brn dolo fill, min fill, glau, vry pyritic in prt, tr blk dead gilsonitic stain, no live show

Woolsey Operation Company LLC
 Platt Gu #4
 990' FSL, 660' FWL
 N 1/2 SW SW
 10-T35S-R12W
 Barber County, Kansas
 1405' GL 1418' KB
 API 15-007-23812 00-00

