KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1055702

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: BLUESTEM GAS MKTG / PLAINS MKTG

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [ ] D&A
- [ ] ENHR
- [ ] SIGW
- [x] 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 #:

01/18/2011	01/30/2011	03/10/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23642-00-00
Spot Description:
NE - SW - NW - NW Sec. 4 Twp. 35 S. R. 11 [ ] East [x] West
822 Feet from [x] North / [ ] South Line of Section
370 Feet from [ ] East / [x] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [ ] NE
- [x] NW
- [ ] SE
- [ ] SW

County: Barber
Lease Name: SCHOOLEY B Well #: 1
Field Name: STRANATHAN
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1379 Kelly Bushing: 1390
Total Depth: 5482 Plug Back Total Depth: 5212
Amount of Surface Pipe Set and Cemented at: 238 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 24000 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

- [x] **Letter of Confidentiality Received**
  Date: 05/16/2011
- [x] **Confidential Release Date:** 05/15/2013
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] I [ ] II [ ] III **Approved by:** NAOMI JAMES **Date:** 05/17/2011

Side Two

[redacted]

1055702

Operator Name: Woolsey Operating Company, LLC Lease Name: SCHOOLEY B Well #: 1

Sec. 4 Twp. 35 S. R. 11 ☐ 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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

Compensated Density/Comp Neutron PE
Dual Induction
Sonic

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
SURFACE	14.75	10.75	28	238	CLASS A	240	2% gel, 3% cc
PRODUCTION	7.875	5.5	15.5	5260	60/40 POZMIX	50	4% gel, 1/4# Celoflake
PRODUCTION	7.875	5.5	15.5	5260	CLASS H	140	10% salt, 10% Gypseal, 6# Kolseal, 1/4#

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 *(Amount and Kind of Material Used)*	Depth
4	4770-4830	3200 GAL 10% MIRA	4770-4830
		459,350 gal treated 2% KCl water, 136,900# 30/70 sd,	
		60,800# 16/30 sd & 17,500# 16/30 resin coated sd	4770-4830

TUBING RECORD: Size: Set At: 4759 Packer At: n/a

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 03/22/2011

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	16	14	200	875	28

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
4770-4830

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	SCHOOLEY B 1
Doc ID	1055702

Tops

Name	Top	Datum
CHASE	1867	-477
ONAGA	2715	-1325
ELGIN	3536	-2146
DOUGLAS	3793	-2403
HERTHA	4517	-3127
MISSISSIPPIAN	4764	-3374
VIOLA	5112	-3722
SIMPSON	5259	-3869
ARBUCKLE	5474	-4084

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

phone: 316-337-6200
fax: 316-337-6211
http://kcc.ks.gov/

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Sam Brownback, Governor

May 12, 2011

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

Re: ACO1
API 15-007-23642-00-00
SCHOOLEY B 1
NW/4 Sec.04-35S-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. 040638

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Lodge KS

DATE 1-19-11	SEC. 4	TWP. 35S	RANGE 11W	CALLED OUT	ON LOCATION	JOB START 4:30 am	JOB FINISH 5:30 am
LEASE Schooley	WELL # B-1	LOCATION Kiowa Jct., 2 E, 3/4 N, E into				COUNTY Barber	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR Duke Rig #10
TYPE OF JOB Surface
HOLE SIZE 14 3/4 T.D. 240'
CASING SIZE 10 3/4 DEPTH 225'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 400 psi MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 20'
PERFS.
DISPLACEMENT 21 1/2 bbls H20

OWNER Woolsey Operating

CEMENT
AMOUNT ORDERED 240 sx class A + 3% cc + 2% gel

EQUIPMENT

PUMP TRUCK # 364/265 CEMENTER Matt Thimesch
HELPER Jason Thimesch
BULK TRUCK # 364 DRIVER Raymond R.
BULK TRUCK # DRIVER

COMMON A	240 sx	@ 15.45	3708.00
POZMIX		@	
GEL	5 sx	@ 20.80	104.00
CHLORIDE	9 sx	@ 58.20	523.80
ASC		@	
HANDLING	254	@ 2.40	609.60
MILEAGE	254/.10/20		508.00
		TOTAL	5453.40

REMARKS:
Brk circ with Rig
mix 240 sx cement
disp 21 1/2 bbls H20
Shut in.
cement did circulate

SERVICE

DEPTH OF JOB 225'
PUMP TRUCK CHARGE 1018.00
EXTRA FOOTAGE @
MILEAGE 20 @ 7.00 140.00
MANIFOLD @
@
@
TOTAL 1158.00

CHARGE TO: Woolsey Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
@
@
@
@
TOTAL

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

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 MIKE THARP

SIGNATURE

ALLIED CEMENTING CO., LLC. 040621

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge, Ks

DATE 1-31-2011	SEC. 4	TWP. 35s	RANGE 11w	CALLED OUT 8:00pm	ON LOCATION 10:00pm	JOB START 4:00pm	JOB FINISH 5:00pm
LEASE Schooly	WELL # B-1		LOCATION Kiowa Jct, 2 East, 3/4 North			COUNTY Barber	STATE Ks
OLD OR (NEW) (Circle one)			East into				

CONTRACTOR Duke #10
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 5482'
CASING SIZE 5 1/2 DEPTH 5259'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 41
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 124 bbls of 2% KCL water

OWNER Woolsey Operating

CEMENT

AMOUNT ORDERED 905x 60:40:4% Gel
150sx Class H + 10% Gyp + 10% Salt
6# Kolseal + .8% FL160 + 1/4# Floseal

EQUIPMENT

PUMP TRUCK #474-302 CEMENTER Darin F
HELPER Ron G
BULK TRUCK #363-290 DRIVER Raymond
BULK TRUCK # DRIVER

COMMON	A 54 sx	@ 15.41	834.30
POZMIX	36 sx	@ 8.00	288.00
GEL	3 sx	@ 20.80	62.40
CHLORIDE		@	
ASC		@	
H	150 sx	@ 16.75	2512.50
Gypseal	1410#	@ 29.00	408.90
Salt	16 sx	@ 12.00	192.00
Kolseal	900#	@ .89	801.00
FL-160	112.5#	@ 13.30	1500.24
Floseal	37.5#	@ 2.50	93.75
Clayvo	13 Gals	@ 31.25	406.25
		@	
HANDLING	296	@ 2.40	710.40
MILEAGE	296/.10/20		592.00
		TOTAL	8401.64

REMARKS:

Pipe on bottom & break circulation, mix 40 sx of Cement for Rat & mouse holes, mix 505x of Scavenger cement, mix 150sx of tail Cement, Shut down, wash pump & lines, Release plug, Start displacement, Lift pressure at 77 bbls, slow rate to 3bpm at 114 bbls Bump plug at 124 bbls 1100-1800 psi, float did hold

SERVICE

DEPTH OF JOB 5259'
PUMP TRUCK CHARGE 2185.00
EXTRA FOOTAGE @
MILEAGE 20 @ 7.00 140.00
MANIFOLD @
Headrental @
@
TOTAL 2325.00

CHARGE TO: Woolsey Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

5 1/2

1-AFU Float Shoe	@	214.20	
1-Latch Down Plug	@	163.80	
11-Turbolizers	@ 40.40	446.60	
20-Scratchers	@ 23.94	478.80	
	@		
TOTAL		1303.40	

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 [redacted]
DISCOUNT [redacted] IF PAID IN 30 DAYS

PRINTED NAME X MIKE THARP

SIGNATURE X

Thank you!!!

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N Market Ste 1000
Wichita, KS 67202

ATTN: Bill Klaver

Schooley B #1

4-34S-11W

Job Ticket: 041578 **DST#: 1**

Test Start: 2011.01.26 @ 18:30:58

GENERAL INFORMATION:

Formation: **MISSISSIPPI**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 22:40:43

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

Interval: 4674.00 ft (KB) To 4828.00 ft (KB) (TVD)
Total Depth: 4928.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

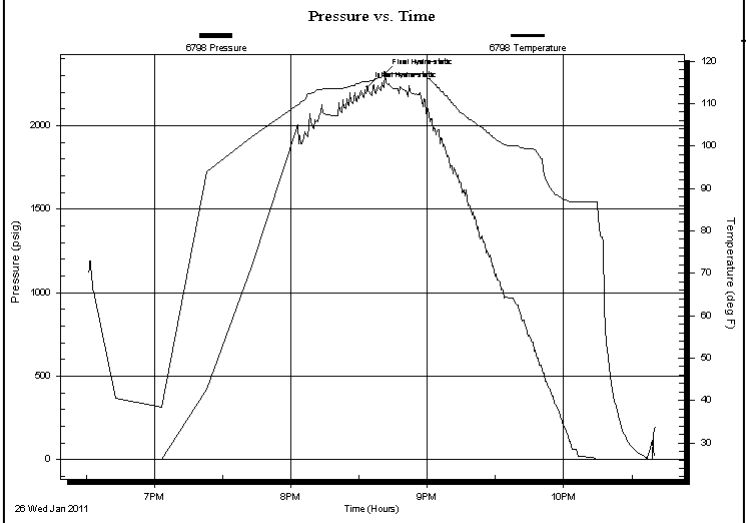
Reference Elevations: 1390.00 ft (KB)
1379.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: psig @ 4675.00 ft (KB)
Start Date: 2011.01.26 End Date: 2011.01.26
Start Time: 18:30:59 End Time: 22:40:43

Capacity: 8000.00 psig
Last Calib.: 2011.01.26
Time On Btm: 2011.01.26 @ 20:33:43
Time Off Btm: 2011.01.26 @ 20:41:28

TEST COMMENT: Unable To Get To Bottom, Tool Stacked Out Approximatly 140 Feet From Bottom



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.08	115.27	Initial Hydro-static
8	2313.13	116.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

125 N Market Ste 1000
Wichita, KS 67202

ATTN: Bill Klaver

Schooley B #1

4-34S-11W

Job Ticket: 041578 **DST#: 1**

Test Start: 2011.01.26 @ 18:30:58

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

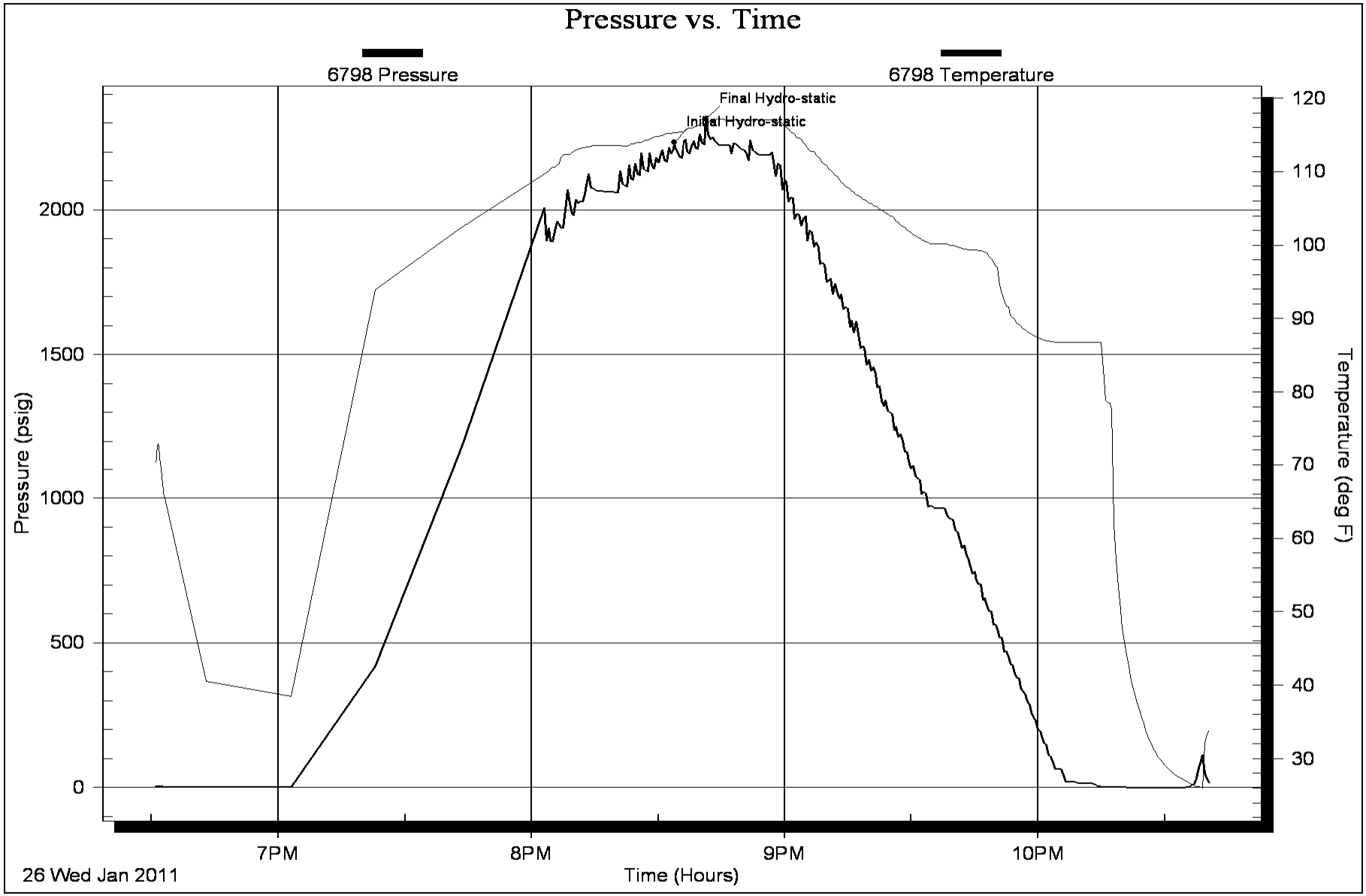
Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6798 Pressure
6798 Temperature
Final Hydro-static
Initial Hydro-static
2000
1500
1000
500
0
Pressure (psig)
120
110
100
90
80
70
60
50
40
30
Temperature (deg F)
7PM
8PM
9PM
10PM
26 Wed Jan 2011
Time (Hours)

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N Market Ste 1000
Wichita, KS 67202

ATTN: Bill Klaver

Schooley B #1

4-34S-11W

Job Ticket: 041579 **DST#: 2**

Test Start: 2011.01.27 @ 05:32:57

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:56:57
Time Test Ended: 16:10:57

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

Interval: 4674.00 ft (KB) To 4828.00 ft (KB) (TVD)
Total Depth: 4928.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

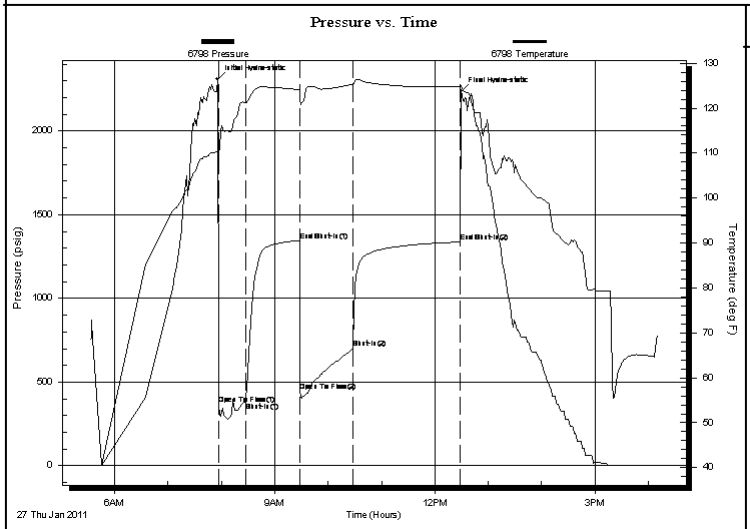
Reference Elevations: 1390.00 ft (KB)
1379.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 702.04 psig @ 4675.00 ft (KB)
Start Date: 2011.01.27 End Date: 2011.01.27
Start Time: 05:32:58 End Time: 16:10:57

Capacity: 8000.00 psig
Last Calib.: 2011.01.27
Time On Btm: 2011.01.27 @ 07:55:27
Time Off Btm: 2011.01.27 @ 12:29:42

TEST COMMENT: IF: Strong Blow , BOB In 1 minute, GTS in 10 Minutes, Gauged Gas & Caught Sample
ISI: Bled Off, Blow back Built To BOB in 26 minutes
FF: Strong Blow , BOB and GTS Immediate, Gauged Gas
FSI: Bled Off,



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.75	110.37	Initial Hydro-static
2	368.03	110.08	Open To Flow (1)
32	378.99	121.24	Shut-In(1)
93	1346.57	124.02	End Shut-In(1)
93	446.12	121.92	Open To Flow (2)
153	702.04	125.37	Shut-In(2)
273	1337.08	124.70	End Shut-In(2)
275	2236.91	124.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3329 Feet GIP	0.00
180.00	GSY OMCW 10%G 10%O 10%M 70%W	2.52
450.00	GSY MOCW 18%G 10%M 12%O 60%W	6.31
180.00	GSY MOCW 30%G 20%M 20%O 30%W	2.52
360.00	GSY MWCO 40%G 6%M 24%W 30%C	5.05
180.00	GSY MWCO 40%G 12%M 12%W 36%	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	7.50	148.41
Last Gas Rate	0.25	3.00	27.76
Max. Gas Rate	0.25	12.00	42.04

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

125 N Market Ste 1000
Wichita, KS 67202

ATTN: Bill Klaver

Schooley B #1

4-34S-11W

Job Ticket: 041579 **DST#: 2**

Test Start: 2011.01.27 @ 05:32:57

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	44000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3329 Feet GIP	0.000
180.00	GSY OMCW 10%G 10%O 10%M 70%W	2.525
450.00	GSY MOCW 18%G 10%M 12%O 60%W	6.312
180.00	GSY MOCW 30%G 20%M 20%O 30%W	2.525
360.00	GSY MWCO 40%G 6%M 24%W 30%O	5.050
180.00	GSY MWCO 40%G 12%M 12%W 36%O	2.525

Total Length: 1350.00 ft Total Volume: 18.937 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

125 N Market Ste 1000
Wichita, KS 67202

ATTN: Bill Klaver

Schooley B #1

4-34S-11W

Job Ticket: 041579 **DST#: 2**

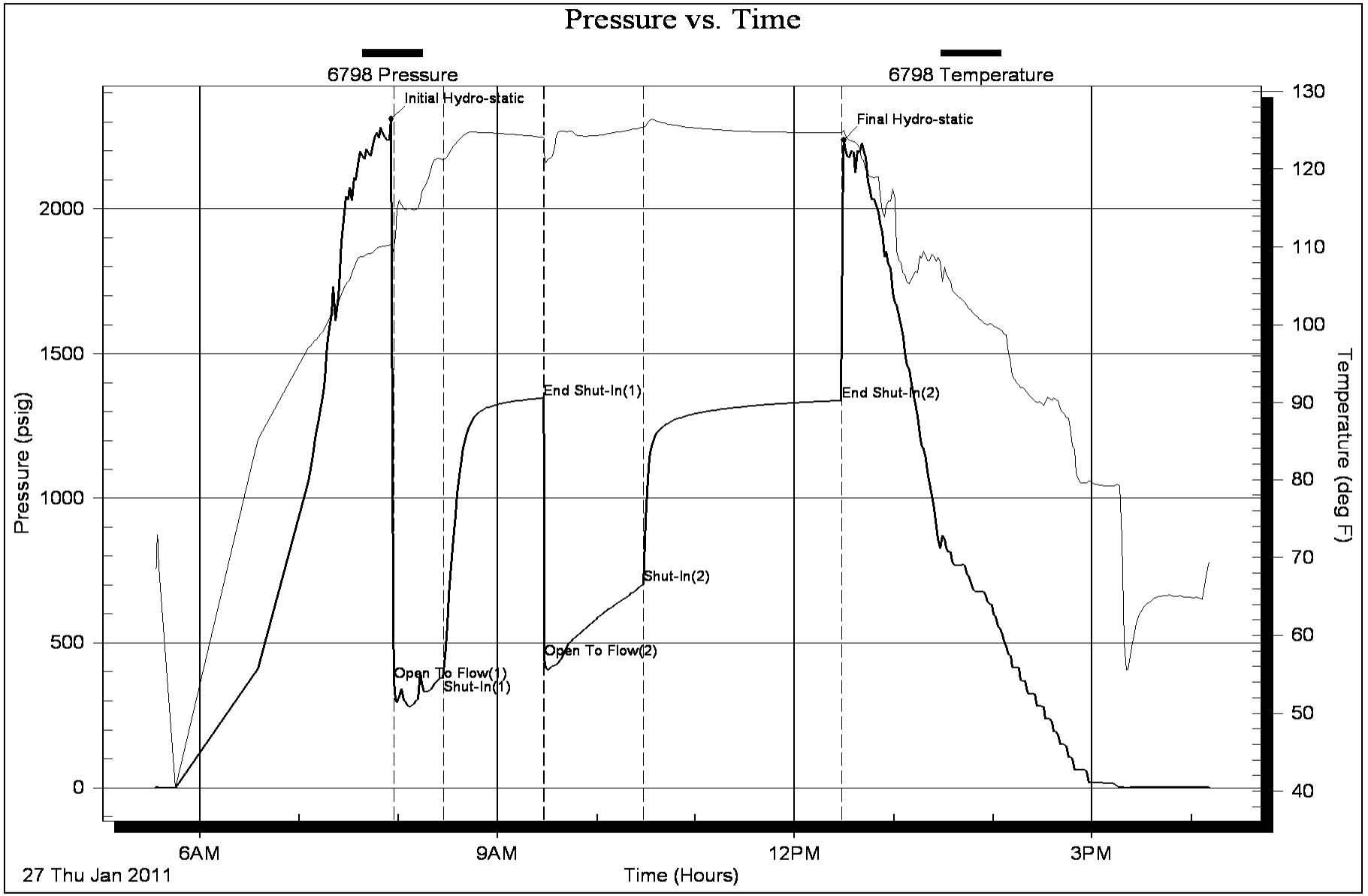
Test Start: 2011.01.27 @ 05:32:57

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
1	10	0.50	7.50	148.41
1	10	0.50	7.50	148.41
1	20	0.50	3.00	118.05
1	20	0.50	3.00	118.05
2	10	0.25	9.00	37.28
2	20	0.25	12.00	42.04
2	30	0.25	9.00	37.28
2	40	0.25	5.00	30.94
2	50	0.25	3.00	27.76


Pressure vs. Time
6798 Pressure
6798 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
50
40
6AM
9AM
12PM
3PM
27 Thu Jan 2011
Time (Hours)

Woolsey Operating Company, LLC

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

Well Name:	**Schooley B #1**		
Location:	**N2 SW NW NW**		
License Number:	**15-007-23642**	**Region:**	**Barber Co. Kansas**
Spud Date:	**January 19, 2011**	**Drilling Completed:**	**January 30, 2011**
Surface Coordinates:	**822' FNL & 370' FWL Section 4 Twp 35S-Rge 11W**		
	Field: Stranathan		
Bottom Hole Coordinates:	**Verticle Hole**		
Ground Elevation (ft):	**1379'**	**K.B. Elevation (ft):**	**1390'**
Logged Interval (ft):	**Surface To: 5463'**	**Total Depth (ft):**	**5463'**
Formation:	**Total Depth in Arbuckle**		
Type of Drilling Fluid:	**Chemical Displaced at 3405'**		

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: Ran 6 joints new 10 3/4" X 32.75# to 238' KB (tally 235'), cemented with 220 sx Class A, 2% gel, 3% CC. Cement did circulate.
Production Casing: 5 1/2"

Deviation Surveys: 3/4 at 240', 1/4 at 754', 1/4 at 1282', 1/2 at 1753', 1/2 at 2278', 1 t 2780', 1/2 at 3248', 1/2 at 3738', 1/4 at 4249', 3/4 at 4828',
Pipe Strap @ 4828', Strap: 4842.74', Board: 4840.10'. Strap 2.64' long, no correction made to the board.
Duke Rig 10 Bit Record:
#1 14 3/4" HTC RR in at O' out at 240'. 240'/4.75 hours
#2 7 7/8" Varrel HE-29 in at 240' out at 5339', 5099'/168 3/4 hrs
#3 7 7/8" Varrel HE-29 RR in at 5339', out at 5463'
Gas Detector: Woolsey Operating Co. Gas Trailer #2
Mud System: Mud Co. Brad Bortz, Engineer
DSTs: Trilobite Testing Inc. Leal Cason, Tester
OH Logs:

DSTs

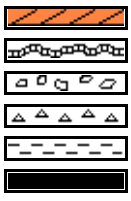
DST #1 Mississippi, 4674'-4828', Misrun, unable to get to bottom, tool stacked out approximatly 140' off bottom.

DST #2 Mississippi, 4674'-4828', 30"-60"-60"-120". SB BOB in 1 minute, GTS 10 minutes into IFP. Rec: 3329' GIP, 180' GOMCW (10%G, 10%O, 10%M, 70%W), 450' GMOCW (18%G, 10%M, 12%O, 60%W), 180' GMOCW (30%G, 20%M, 20%O, 30%W), 360' GMWCO 40%G, 6%M, 24%W, 30%O), 180'MWCO (40%G, 12%M, 12%W, 36%O). IHP 2308, IFP 368-378, ISIP 1346, FFP 446-702, FSIP 1337, FHP 2236. BHT 125 degrees. IFP 10" 148.4 MCF, 20-30" 118 MCF. FFP 10" 37.2 MCF, 20" 42 MCF, 30" 37.2 MCF, 40" 30.9 MCF, 50-60" 27.7 MCF.

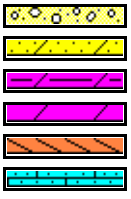
CREWS

Joe Livingston, Tool Pusher
Scott Edwards, Days
Colby Crawford, Evening
Alex Ordonez, Morning
Ron Burns, Relief

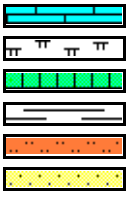
ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal



Congl
Sdy dolo
Shy dolo
Dol
Gyp
Sdy lmst



Lmst
Mrlst
Salt
Shale
Sltst
Ss

Black sh
Gry sh
Shale
Shysltst
Sltysh

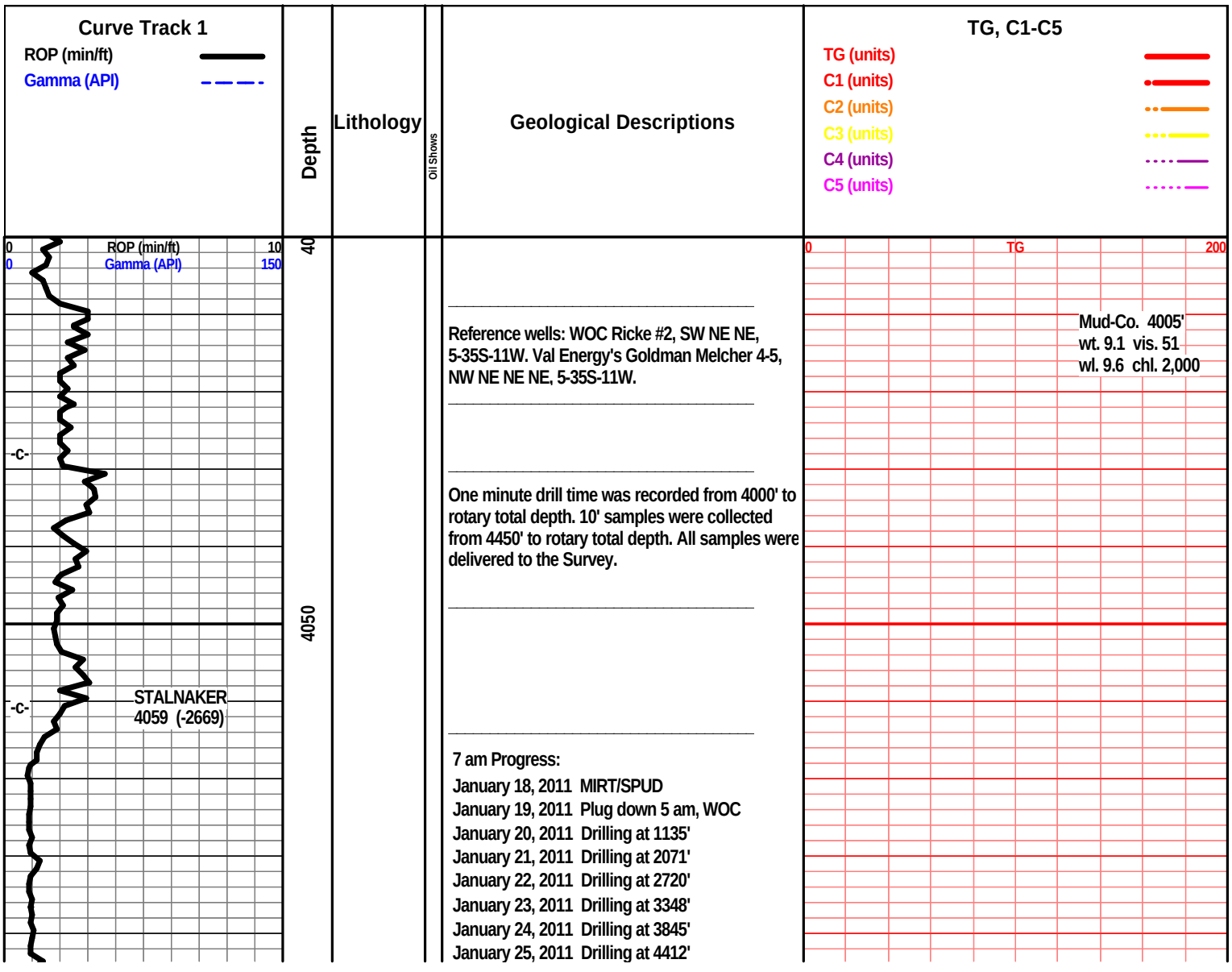
ACCESSORIES

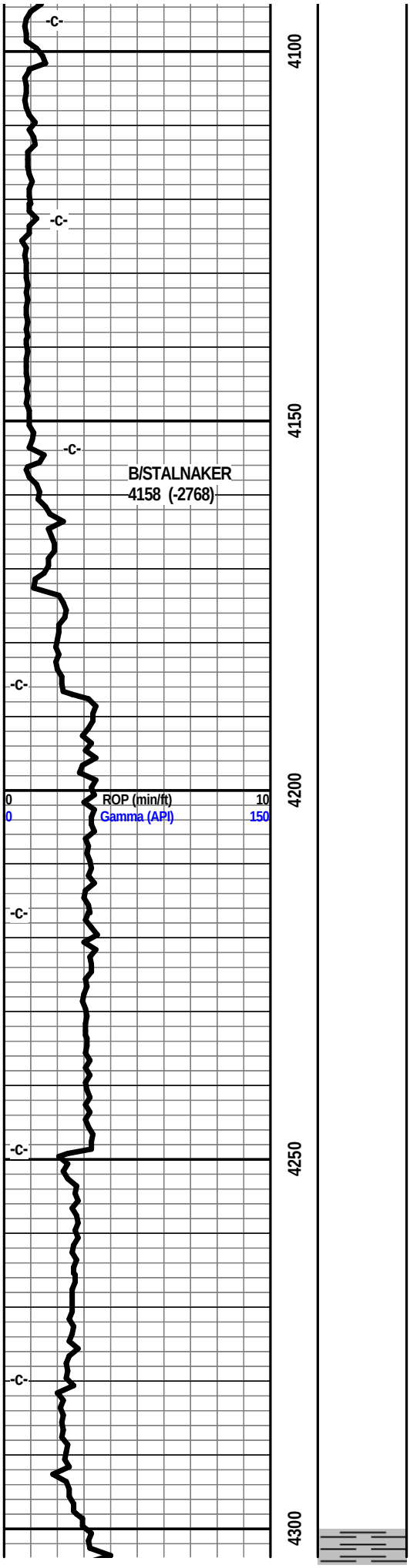
MINERAL
- Anhy
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Chlorite
- Dol
- Sand
- Slty

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

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

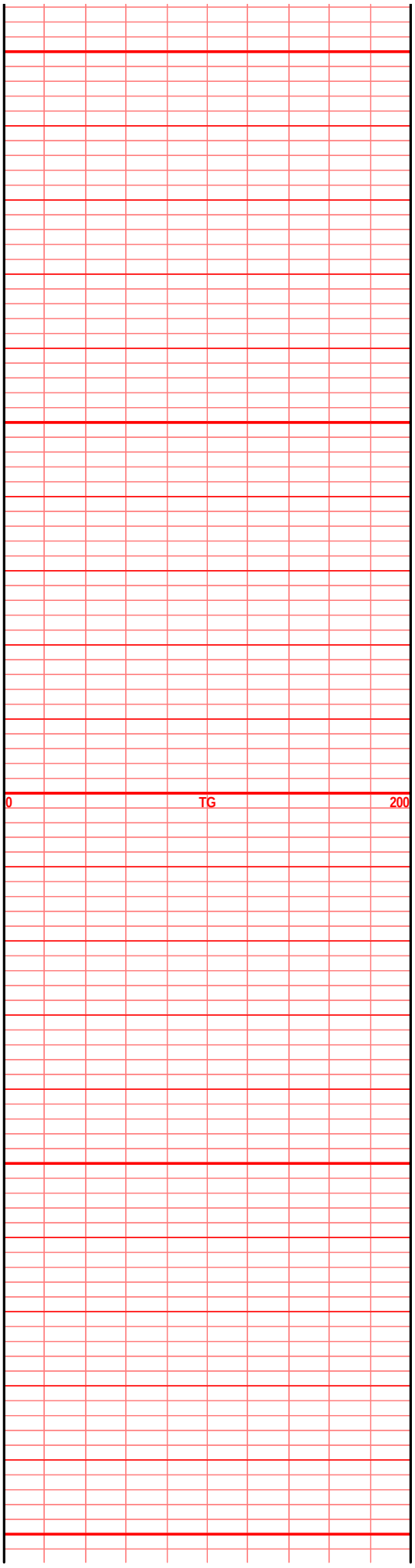
TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

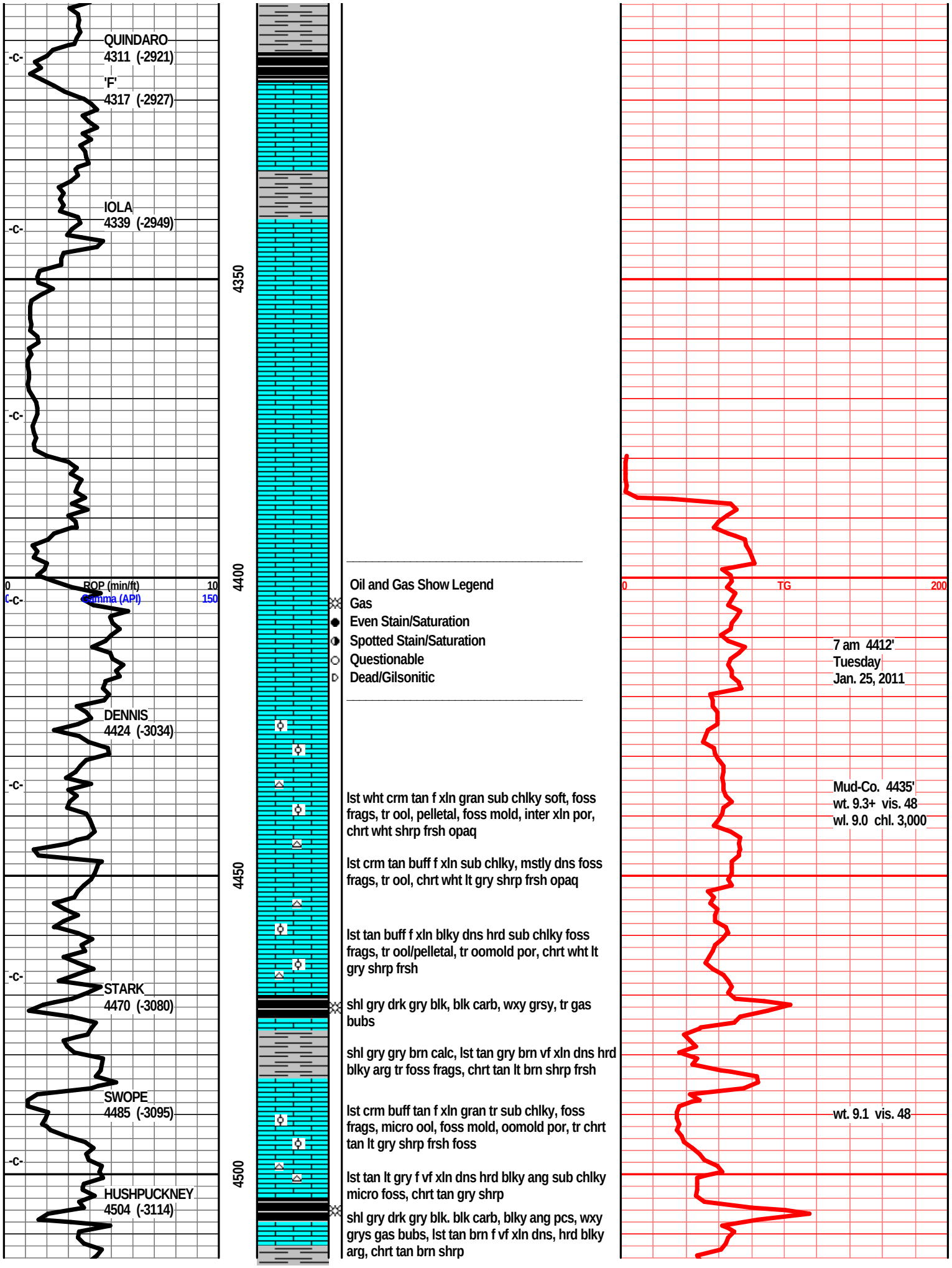


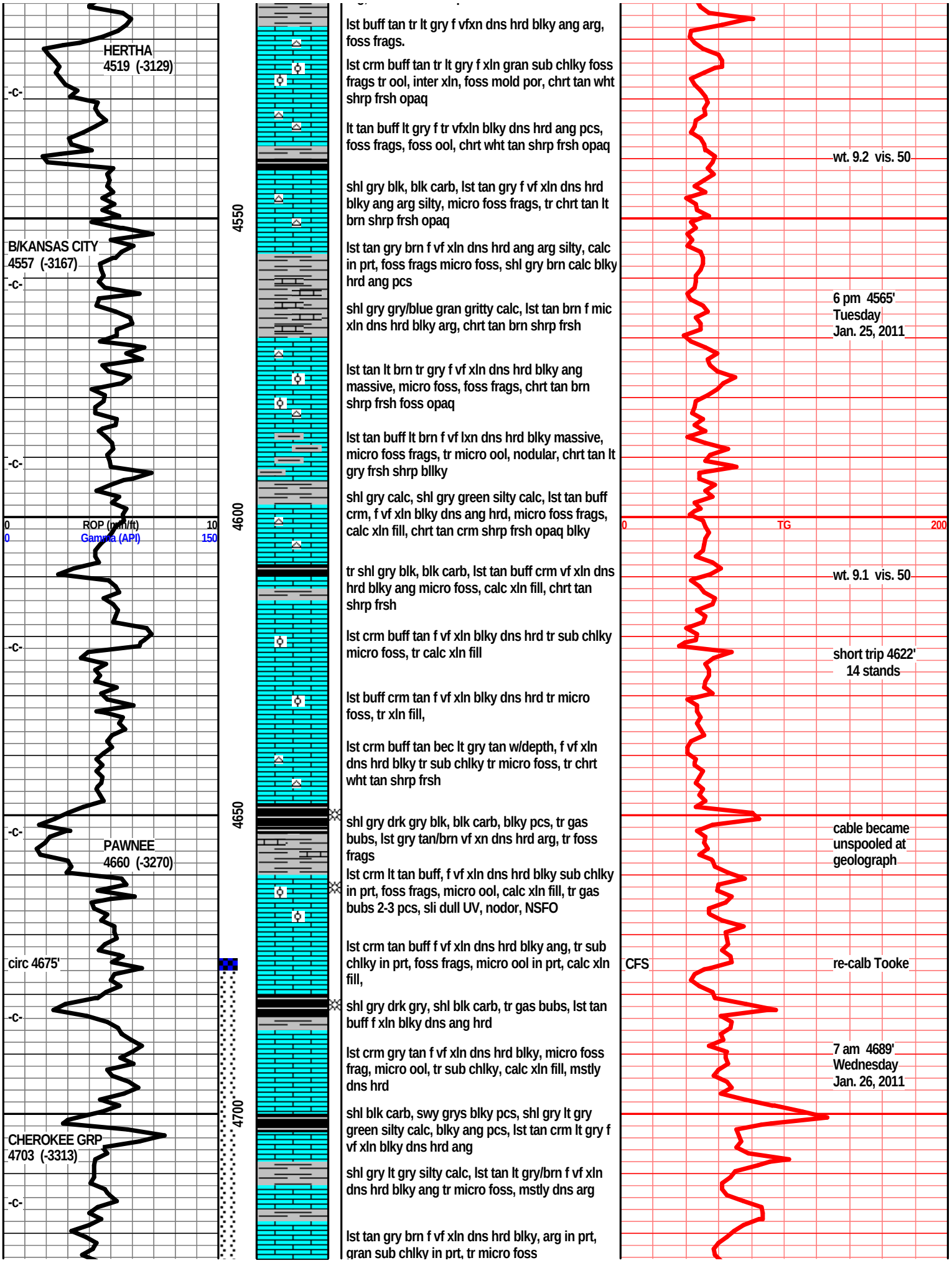


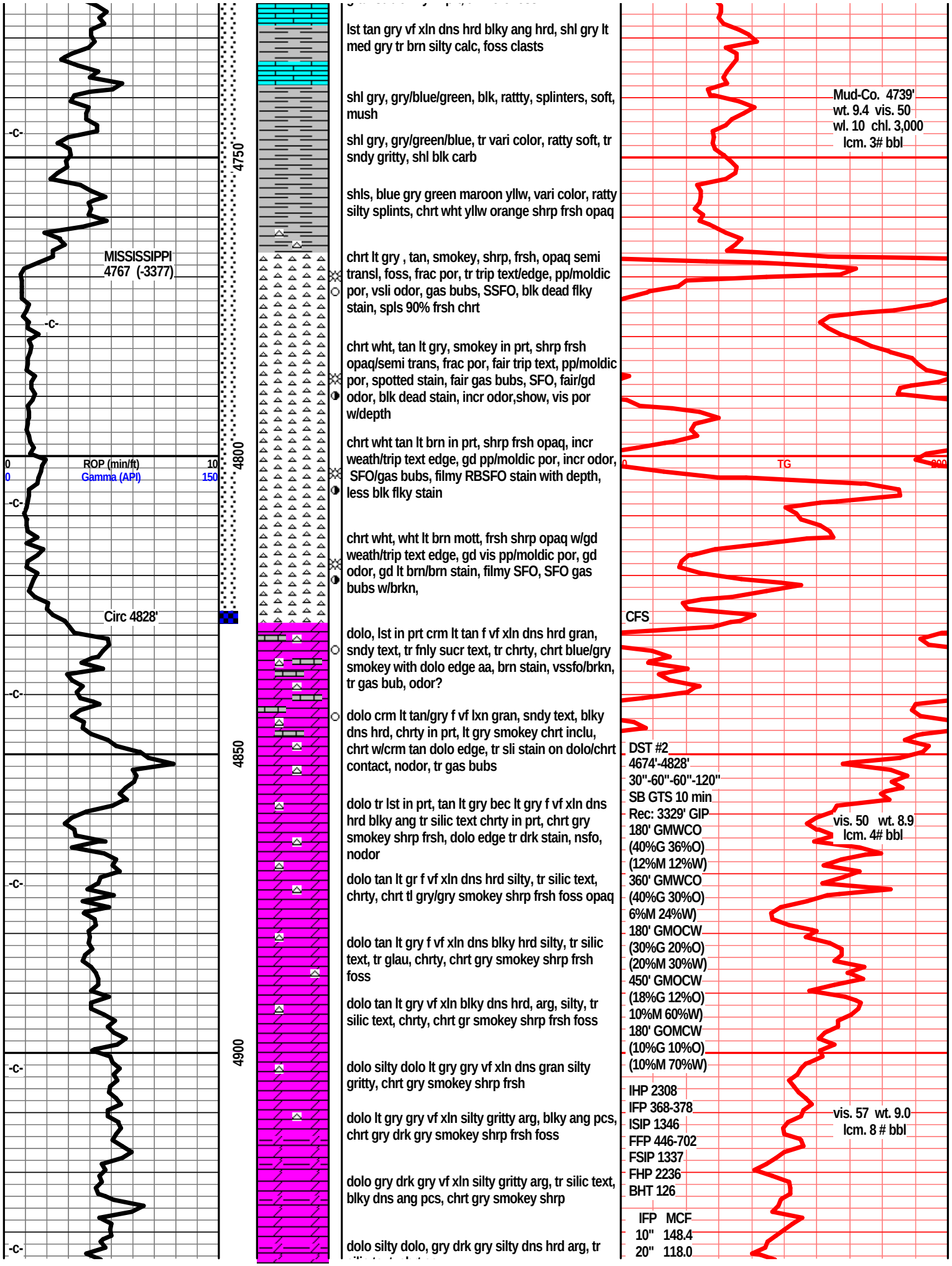
January 26, 2011 Drilling at 4689'
January 27, 2011 DST #2 at 4828'
January 28, 2011 Drilling at 4954'
January 29, 2011 Drilling at 5328'
January 30, 2011 Drilling at 5396'

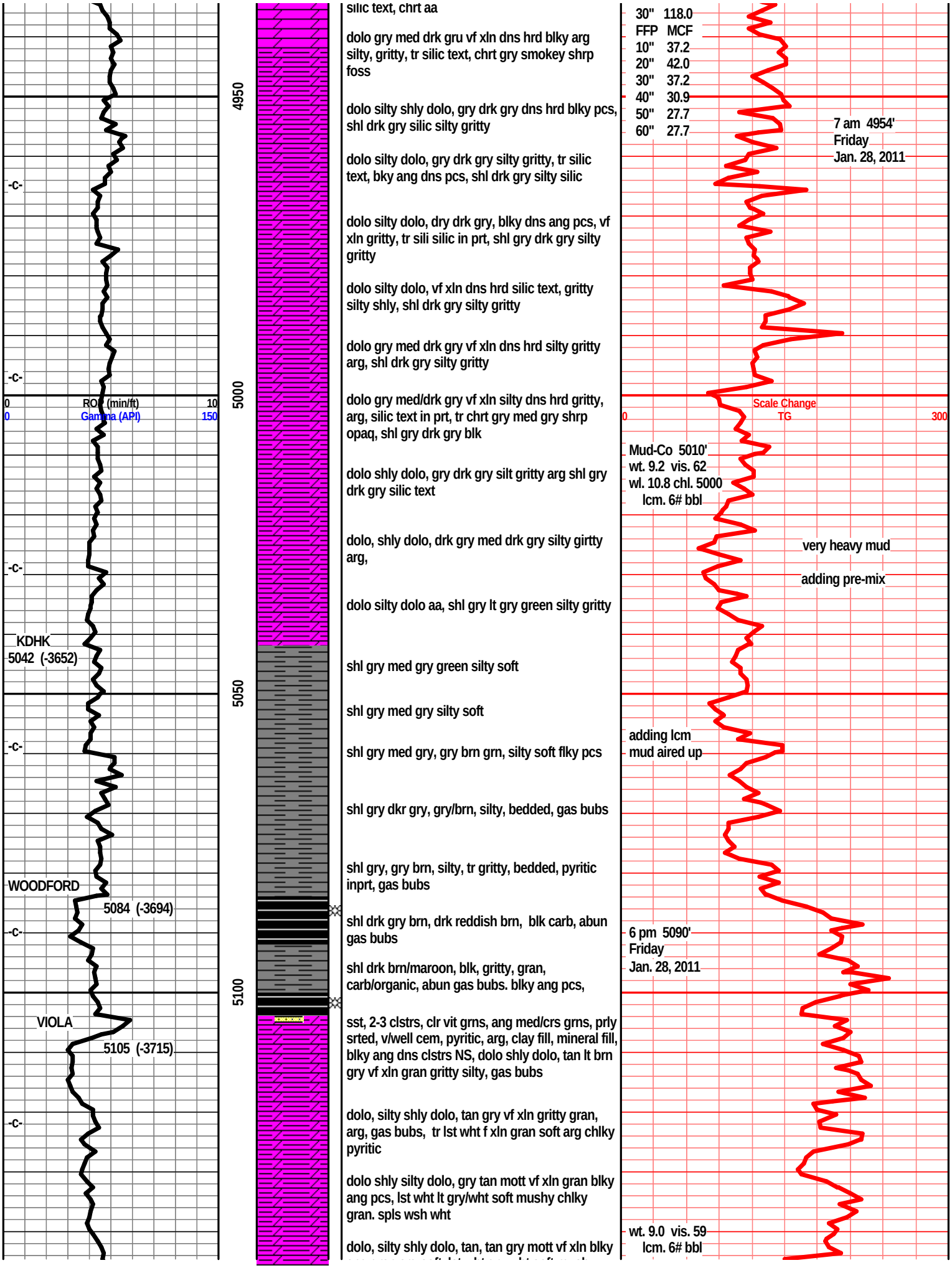
E-Log Tops:
Herington
Onaga
Wabaunsee
Topeka
LeCompton
Kanwaka
Elgin Sand
Heebner
Toronto
Douglas Grp
Stalnaker
Quindaro
Kansas City 'F'
Kansas City 'Iola'
Kansas City 'Drum'
Kansas City 'Dennis'
Stark
Kansas City 'Swope'
Hushpuckney
Kansas City 'Hertha'
B/Kansas City
Pawnee
Cherokee Group
Mississippi
C3
C2A
C2
C1
Kinderhook
Woodford
Maquoketa
Viola
Simpson
Wilcox
McLish Shale
McLish Sand
LTD

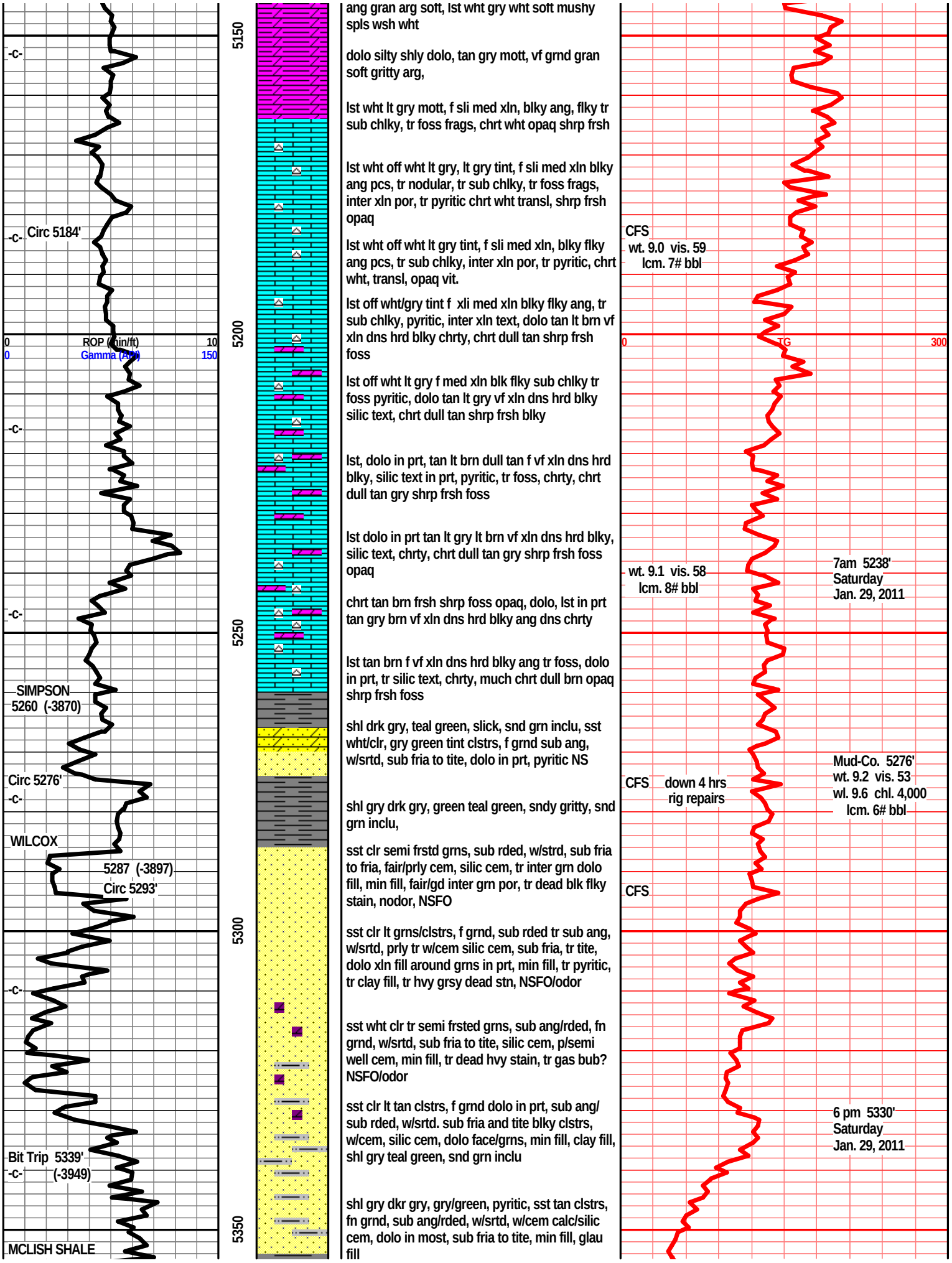


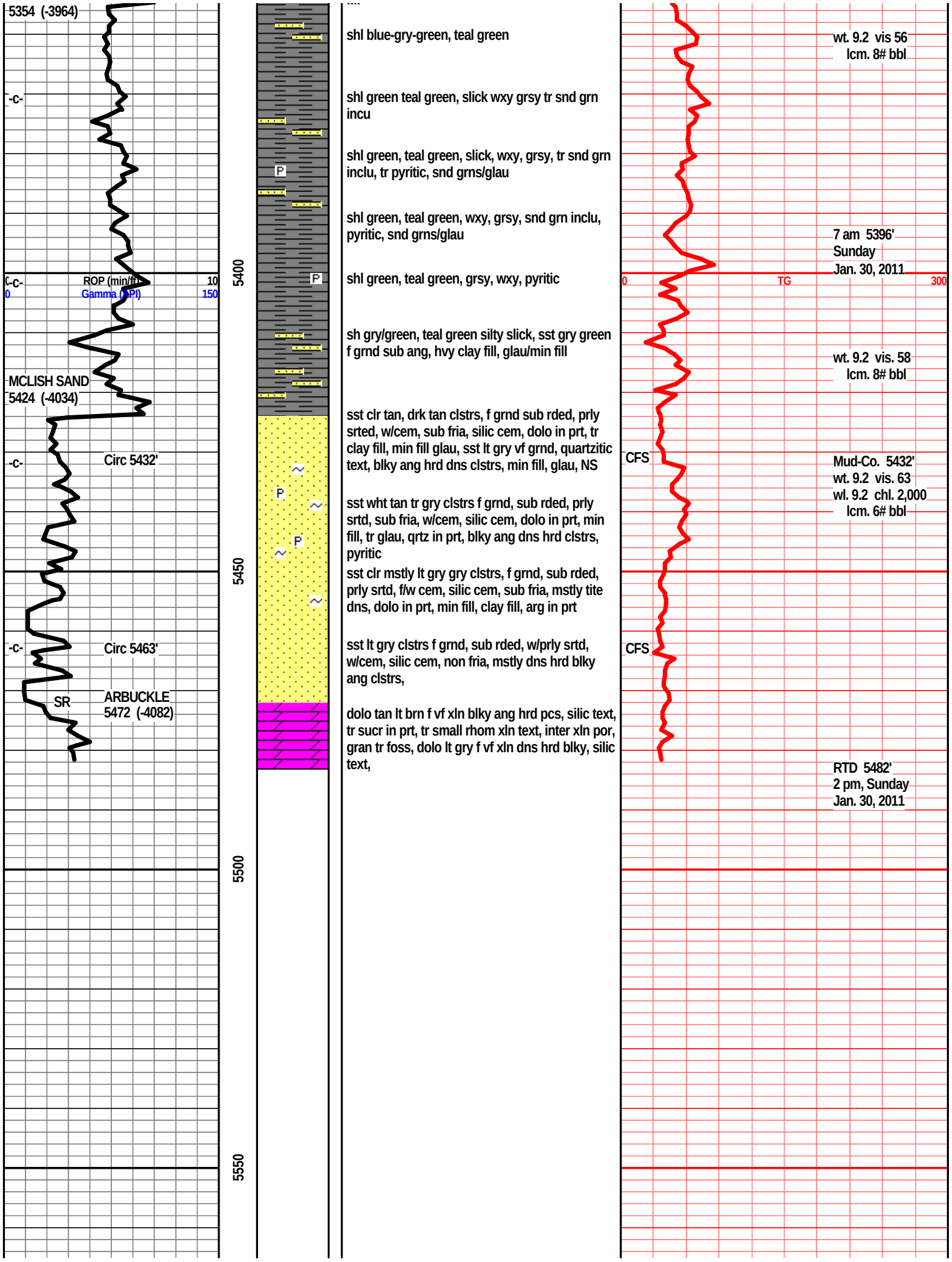

QUINDARO
4311 (-2921)
'F'
4317 (-2927)
IOLA
4339 (-2949)
DENNIS
4424 (-3034)
STARK
4470 (-3080)
SWOPE
4485 (-3095)
HUSHPUCKNEY
4504 (-3114)
-c-
0
ROP (min/ft)
10
Gamma (API)
150
4350
4400
4450
4500
Oil and Gas Show Legend
Gas
Even Stain/Saturation
Spotted Stain/Saturation
Questionable
Dead/Gilsonitic
lst wht crm tan f xln gran sub chlky soft, foss frags, tr ool, pelletal, foss mold, inter xln por, chrt wht shrp frsh opaq
lst crm tan buff f xln sub chlky, mstly dns foss frags, tr ool, chrt wht lt gry shrp frsh opaq
lst tan buff f xln blky dns hrd sub chlky foss frags, tr ool/pelletal, tr oomold por, chrt wht lt gry shrp frsh
shl gry drk gry blk, blk carb, wxy grsy, tr gas bubs
shl gry gry brn calc, lst tan gry brn vf xln dns hrd blky arg tr foss frags, chrt tan lt brn shrp frsh
lst crm buff tan f xln gran tr sub chlky, foss frags, micro ool, foss mold, oomold por, tr chrt tan lt gry shrp frsh foss
lst tan lt gry f vf xln dns hrd blky ang sub chlky micro foss, chrt tan gry shrp
shl gry drk gry blk. blk carb, blky ang pcs, wxy grys gas bubs, lst tan brn f vf xln dns, hrd blky arg, chrt tan brn shrp
0
TG
200
7 am 4412'
Tuesday
Jan. 25, 2011
Mud-Co. 4435'
wt. 9.3+ vis. 48
wl. 9.0 chl. 3,000
wt. 9.1 vis. 48


HERTHA
4519 (-3129)
-c-
B/KANSAS CITY
4557 (-3167)
-c-
-c-
0
ROP (min/ft)
10
0
Gamma (API)
150
-c-
-c-
PAWNEE
4660 (-3270)
circ 4675'
-c-
CHEROKEE GRP
4703 (-3313)
-c-
4550
4600
4650
4700
lst buff tan tr lt gry f vfxn dns hrd blky ang arg, foss frags.
lst crm buff tan tr lt gry f xln gran sub chlky foss frags tr ool, inter xln, foss mold por, chrt tan wht shrp frsh opaq
lt tan buff lt gry f tr vfxln blky dns hrd ang pcs, foss frags, foss ool, chrt wht tan shrp frsh opaq
shl gry blk, blk carb, lst tan gry f vf xln dns hrd blky ang arg silty, micro foss frags, tr chrt tan lt brn shrp frsh opaq
lst tan gry brn f vf xln dns hrd ang arg silty, calc in prt, foss frags micro foss, shl gry brn calc blky hrd ang pcs
shl gry gry/blue gran gritty calc, lst tan brn f mic xln dns hrd blky arg, chrt tan brn shrp frsh
lst tan lt brn tr gry f vf xln dns hrd blky ang massive, micro foss, foss frags, chrt tan brn shrp frsh foss opaq
lst tan buff lt brn f vf lxn dns hrd blky massive, micro foss frags, tr micro ool, nodular, chrt tan lt gry frsh shrp bllky
shl gry calc, shl gry green silty calc, lst tan buff crm, f vf xln blky dns ang hrd, micro foss frags, calc xln fill, chrt tan crm shrp frsh opaq blky
tr shl gry blk, blk carb, lst tan buff crm vf xln dns hrd blky ang micro foss, calc xln fill, chrt tan shrp frsh
lst crm buff tan f vf xln blky dns hrd tr sub chlky micro foss, tr calc xln fill
lst buff crm tan f vf xln blky dns hrd tr micro foss, tr xln fill,
lst crm buff tan bec lt gry tan w/depth, f vf xln dns hrd blky tr sub chlky tr micro foss, tr chrt wht tan shrp frsh
shl gry drk gry blk, blk carb, blky pcs, tr gas bubs, lst gry tan/brn vf xn dns hrd arg, tr foss frags
lst crm lt tan buff, f vf xln dns hrd blky sub chlky in prt, foss frags, micro ool, calc xln fill, tr gas bubs 2-3 pcs, sli dull UV, nodor, NSFO
lst crm tan buff f vf xln dns hrd blky ang, tr sub chlky in prt, foss frags, micro ool in prt, calc xln fill,
shl gry drk gry, shl blk carb, tr gas bubs, lst tan buff f xln blky dns ang hrd
lst crm gry tan f vf xln dns hrd blky, micro foss frag, micro ool, tr sub chlky, calc xln fill, mstly dns hrd
shl blk carb, swy grys blky pcs, shl gry lt gry green silty calc, blky ang pcs, lst tan crm lt gry f vf xln blky dns hrd ang
shl gry lt gry silty calc, lst tan lt gry/brn f vf xln dns hrd blky ang tr micro foss, mstly dns arg
lst tan gry brn f vf xln dns hrd blky, arg in prt, gran sub chlky in prt, tr micro foss
0
TG
200
CFS
wt. 9.2 vis. 50
6 pm 4565'
Tuesday
Jan. 25, 2011
wt. 9.1 vis. 50
short trip 4622'
14 stands
cable became unspooled at geolograph
re-calb Tooke
7 am 4689'
Wednesday
Jan. 26, 2011


-C-
MISSISSIPPI
4767 (-3377)
-C-
0
ROP (min/ft)
10
0
Gamma (API)
150
-C-
Circ 4828'
-C-
-C-
-C-
-C-
4750
4800
4850
4900
lst tan gry vf xln dns hrd blky ang hrd, shl gry lt med gry tr brn silty calc, foss clasts
shl gry, gry/blue/green, blk, rattty, splinters, soft, mush
shl gry, gry/green/blue, tr vari color, ratty soft, tr sndy gritty, shl blk carb
shls, blue gry green maroon yllw, vari color, ratty silty splints, chrt wht yllw orange shrp frsh opaq
chrt lt gry , tan, smokey, shrp, frsh, opaq semi transl, foss, frac por, tr trip text/edge, pp/moldic por, vsli odor, gas bubs, SSFO, blk dead flky stain, spls 90% frsh chrt
chrt wht, tan lt gry, smokey in prt, shrp frsh opaq/semi trans, frac por, fair trip text, pp/moldic por, spotted stain, fair gas bubs, SFO, fair/gd odor, blk dead stain, incr odor,show, vis por w/depth
chrt wht tan lt brn in prt, shrp frsh opaq, incr weath/trip text edge, gd pp/moldic por, incr odor, SFO/gas bubs, filmy RBSFO stain with depth, less blk flky stain
chrt wht, wht lt brn mott, frsh shrp opaq w/gd weath/trip text edge, gd vis pp/moldic por, gd odor, gd lt brn/brn stain, filmy SFO, SFO gas bubs w/brkn,
dolo, lst in prt crm lt tan f vf xln dns hrd gran, sndy text, tr fnly sucr text, tr chrty, chrt blue/gry smokey with dolo edge aa, brn stain, vssfo/brkn, tr gas bub, odor?
dolo crm lt tan/gry f vf lxn gran, sndy text, blky dns hrd, chrty in prt, lt gry smokey chrt inclu, chrt w/crm tan dolo edge, tr sli stain on dolo/chrt contact, nodor, tr gas bubs
dolo tr lst in prt, tan lt gry bec lt gry f vf xln dns hrd blky ang tr silic text chrty in prt, chrt gry smokey shrp frsh, dolo edge tr drk stain, nsfo, nodor
dolo tan lt gr f vf xln dns hrd silty, tr silic text, chrty, chrt tl gry/gry smokey shrp frsh foss opaq
dolo tan lt gry f vf xln dns blky hrd silty, tr silic text, tr glau, chrty, chrt gry smokey shrp frsh foss
dolo tan lt gry vf xln blky dns hrd, arg, silty, tr silic text, chrty, chrt gr smokey shrp frsh foss
dolo silty dolo lt gry gry vf xln dns gran silty gritty, chrt gry smokey shrp frsh
dolo lt gry gry vf xln silty gritty arg, blky ang pcs, chrt gry drk gry smokey shrp frsh foss
dolo gry drk gry vf xln silty gritty arg, tr silic text, blky dns ang pcs, chrt gry smokey shrp
dolo silty dolo, gry drk gry silty dns hrd arg, tr
Mud-Co. 4739'
wt. 9.4 vis. 50
wl. 10 chl. 3,000
lcm. 3# bbl
0
TG
200
CFS
DST #2
4674'-4828'
30"-60"-60"-120"
SB GTS 10 min
Rec: 3329' GIP
180' GMWCO
(40%G 36%O)
(12%M 12%W)
360' GMWCO
(40%G 30%O)
6%M 24%W)
180' GMOCW
(30%G 20%O)
(20%M 30%W)
450' GMOCW
(18%G 12%O)
10%M 60%W)
180' GOMCW
(10%G 10%O)
(10%M 70%W)
IHP 2308
IFP 368-378
ISIP 1346
FFP 446-702
FSIP 1337
FHP 2236
BHT 126
IFP MCF
10" 148.4
20" 118.0
vis. 50 wt. 8.9
lcm. 4# bbl
vis. 57 wt. 9.0
lcm. 8 # bbl


0 ROP (min/ft) 10
0 Gamma (API) 150
-c-
-c-
-c-
-c-
-c-
KDHK
5042 (-3652)
WOODFORD
5084 (-3694)
VIOLA
5105 (-3715)
4950
5000
5050
5100
silic text, chrt aa
dolo gry med drk gru vf xln dns hrd blky arg silty, gritty, tr silic text, chrt gry smokey shrp foss
dolo silty shly dolo, gry drk gry dns hrd blky pcs, shl drk gry silic silty gritty
dolo silty dolo, gry drk gry silty gritty, tr silic text, bky ang dns pcs, shl drk gry silty silic
dolo silty dolo, dry drk gry, blky dns ang pcs, vf xln gritty, tr sili silic in prt, shl gry drk gry silty gritty
dolo silty dolo, vf xln dns hrd silic text, gritty silty shly, shl drk gry silty gritty
dolo gry med drk gry vf xln dns hrd silty gritty arg, shl drk gry silty gritty
dolo gry med/drk gry vf xln silty dns hrd gritty, arg, silic text in prt, tr chrt gry med gry shrp opaq, shl gry drk gry blk
dolo shly dolo, gry drk gry silt gritty arg shl gry drk gry silic text
dolo, shly dolo, drk gry med drk gry silty girtty arg,
dolo silty dolo aa, shl gry lt gry green silty gritty
shl gry med gry green silty soft
shl gry med gry silty soft
shl gry med gry, gry brn grn, silty soft flky pcs
shl gry dkr gry, gry/brn, silty, bedded, gas bubs
shl gry, gry brn, silty, tr gritty, bedded, pyritic inprt, gas bubs
shl drk gry brn, drk reddish brn, blk carb, abun gas bubs
shl drk brn/maroon, blk, gritty, gran, carb/organic, abun gas bubs. blky ang pcs,
sst, 2-3 clstrs, clr vit grns, ang med/crs grns, prly srted, v/well cem, pyritic, arg, clay fill, mineral fill, blky ang dns clstrs NS, dolo shly dolo, tan lt brn gry vf xln gran gritty silty, gas bubs
dolo, silty shly dolo, tan gry vf xln gritty gran, arg, gas bubs, tr lst wht f xln gran soft arg chlky pyritic
dolo shly silty dolo, gry tan mott vf xln gran blky ang pcs, lst wht lt gry/wht soft mushy chlky gran. spls wsh wht
dolo, silty shly dolo, tan, tan gry mott vf xln blky
30" 118.0
FFP MCF
10" 37.2
20" 42.0
30" 37.2
40" 30.9
50" 27.7
60" 27.7
7 am 4954'
Friday
Jan. 28, 2011
Scale Change
0 TG 300
Mud-Co 5010'
wt. 9.2 vis. 62
wl. 10.8 chl. 5000
lcm. 6# bbl
very heavy mud
adding pre-mix
adding lcm
mud aired up
6 pm 5090'
Friday
Jan. 28, 2011
wt. 9.0 vis. 59
lcm. 6# bbl


-c-
Circ 5184'
-c-
0
ROP (min/ft)
10
0
Gamma (API)
150
-c-
-c-
SIMPSON
5260 (-3870)
Circ 5276'
-c-
WILCOX
5287 (-3897)
Circ 5293'
-c-
Bit Trip 5339'
-c- (-3949)
MCLISH SHALE
5150
5200
5250
5300
5350
ang gran arg soft, lst wht gry wht soft mushy spls wsh wht
dolo silty shly dolo, tan gry mott, vf grnd gran soft gritty arg,
lst wht lt gry mott, f sli med xln, blky ang, flky tr sub chlky, tr foss frags, chrt wht opaq shrp frsh
lst wht off wht lt gry, lt gry tint, f sli med xln blky ang pcs, tr nodular, tr sub chlky, tr foss frags, inter xln por, tr pyritic chrt wht transl, shrp frsh opaq
lst wht off wht lt gry tint, f sli med xln, blky flky ang pcs, tr sub chlky, inter xln por, tr pyritic, chrt wht, transl, opaq vit.
lst off wht/gry tint f xli med xln blky flky ang, tr sub chlky, pyritic, inter xln text, dolo tan lt brn vf xln dns hrd blky chrty, chrt dull tan shrp frsh foss
lst off wht lt gry f med xln blk flky sub chlky tr foss pyritic, dolo tan lt gry vf xln dns hrd blky silic text, chrt dull tan shrp frsh blky
lst, dolo in prt, tan lt brn dull tan f vf xln dns hrd blky, silic text in prt, pyritic, tr foss, chrty, chrt dull tan gry shrp frsh foss
lst dolo in prt tan lt gry lt brn vf xln dns hrd blky, silic text, chrty, chrt dull tan gry shrp frsh foss opaq
chrt tan brn frsh shrp foss opaq, dolo, lst in prt tan gry brn vf xln dns hrd blky ang dns chrty
lst tan brn f vf xln dns hrd blky ang tr foss, dolo in prt, tr silic text, chrty, much chrt dull brn opaq shrp frsh foss
shl drk gry, teal green, slick, snd grn inclu, sst wht/clr, gry green tint clstrs, f grnd sub ang, w/srtd, sub fria to tite, dolo in prt, pyritic NS
shl gry drk gry, green teal green, sndy gritty, snd grn inclu,
sst clr semi frstd grns, sub rded, w/strd, sub fria to fria, fair/prly cem, silic cem, tr inter grn dolo fill, min fill, fair/gd inter grn por, tr dead blk flky stain, nodor, NSFO
sst clr lt grns/clstrs, f grnd, sub rded tr sub ang, w/srtd, prly tr w/cem silic cem, sub fria, tr tite, dolo xln fill around grns in prt, min fill, tr pyritic, tr clay fill, tr hvy grsy dead stn, NSFO/odor
sst wht clr tr semi frsted grns, sub ang/rded, fn grnd, w/srtd, sub fria to tite, silic cem, p/semi well cem, min fill, tr dead hvy stain, tr gas bub? NSFO/odor
sst clr lt tan clstrs, f grnd dolo in prt, sub ang/ sub rded, w/srtd. sub fria and tite blky clstrs, w/cem, silic cem, dolo face/grns, min fill, clay fill, shl gry teal green, snd grn inclu
shl gry dkr gry, gry/green, pyritic, sst tan clstrs, fn grnd, sub ang/rded, w/srtd, w/cem calc/silic cem, dolo in most, sub fria to tite, min fill, glau fill
CFS
wt. 9.0 vis. 59
lcm. 7# bbl
0
TG
300
wt. 9.1 vis. 58
lcm. 8# bbl
7am 5238'
Saturday
Jan. 29, 2011
CFS
down 4 hrs
rig repairs
Mud-Co. 5276'
wt. 9.2 vis. 53
wl. 9.6 chl. 4,000
lcm. 6# bbl
CFS
6 pm 5330'
Saturday
Jan. 29, 2011


5354 (-3964)
-c-
-c-
ROP (min/ft)
10
0
Gamma (API)
150
MCLISH SAND
5424 (-4034)
-c-
Circ 5432'
-c-
Circ 5463'
SR
ARBUCKLE
5472 (-4082)
5400
5450
5500
5550
P
P
P
P
shl blue-gry-green, teal green
shl green teal green, slick wxy grsy tr snd grn incu
shl green, teal green, slick, wxy, grsy, tr snd grn inclu, tr pyritic, snd grns/glau
shl green, teal green, wxy, grsy, snd grn inclu, pyritic, snd grns/glau
shl green, teal green, grsy, wxy, pyritic
sh gry/green, teal green silty slick, sst gry green f grnd sub ang, hvy clay fill, glau/min fill
sst clr tan, drk tan clstrs, f grnd sub rded, prly srted, w/cem, sub fria, silic cem, dolo in prt, tr clay fill, min fill glau, sst lt gry vf grnd, quartzitic text, blky ang hrd dns clstrs, min fill, glau, NS
sst wht tan tr gry clstrs f grnd, sub rded, prly srtd, sub fria, w/cem, silic cem, dolo in prt, min fill, tr glau, qrtz in prt, blky ang dns hrd clstrs, pyritic
sst clr mstly lt gry gry clstrs, f grnd, sub rded, prly srtd, f/w cem, silic cem, sub fria, mstly tite dns, dolo in prt, min fill, clay fill, arg in prt
sst lt gry clstrs f grnd, sub rded, w/prly srtd, w/cem, silic cem, non fria, mstly dns hrd blky ang clstrs,
dolo tan lt brn f vf xln blky ang hrd pcs, silic text, tr sucr in prt, tr small rhom xln text, inter xln por, gran tr foss, dolo lt gry f vf xln dns hrd blky, silic text,
wt. 9.2 vis 56
lcm. 8# bbl
7 am 5396'
Sunday
Jan. 30, 2011
0
TG
300
wt. 9.2 vis. 58
lcm. 8# bbl
CFS
Mud-Co. 5432'
wt. 9.2 vis. 63
wl. 9.2 chl. 2,000
lcm. 6# bbl
CFS
RTD 5482'
2 pm, Sunday
Jan. 30, 2011