



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1188332
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1188332

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____	PRODUCTION INTERVAL: _____ _____
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#2 Baker 13CD

1840' FSL & 2105' FEL

140' S & 125' W of NW SE Section 13-17S-35W

Wichita County, Kansas

API# 15-203-20242-0000

Elevation: 3144' GL, 3149' KB

Sample Tops			Ref. Well
Anhydrite	2438'	+711	+4
B/Anhydrite	2458'	+691	+3
Heebner	4006'	-857	+2
Toronto	4023'	-874	+2
Lansing	4053'	-904	+1
Muncie Shale	4238'	-1089	+2
Stark Shale	4342'	-1193	+1
Hush	4389'	-1240	+3
BKC	4434'	-1285	+1
Marmaton	4464'	-1315	-1
Altamont	4496'	-1347	Flat
Pawnee	4576'	-1427	Flat
Myrick	4607'	-1458	+6
Fort Scott	4619'	-1470	+3
Cherokee	4648'	-1499	Flat
Johnson	4762'	-1613	+8
Mississippian	4863'	-1714	-3
RTD	5035'	-1886	



CONSOLIDATED
Oil Well Services, LLC

264044

TICKET NUMBER 44527
LOCATION Dakley, Ks.
FOREMAN Dauer, Walt

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD-TICKET & TREATMENT REPORT
CEMENT

Ks -

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
11/17/13	7173	Baker 13CD #2	13	17	35	Wichita	
CUSTOMER <u>Ritchie Exploration</u>		Mailing Address <u>Soft City W To CL 6 N 1/8 W Ninto</u>		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				<u>463</u>	<u>Cody</u>		
CITY		STATE		ZIP CODE			
				<u>493</u>	<u>Cody</u>		
				<u>Helper</u>	<u>Lance</u>		

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 50.35 CASING SIZE & WEIGHT 4 1/2, 10.5"
CASING DEPTH 5026.60 DRILL PIPE _____ TUBING PC Top of #62 OTHER Port Collar 2402.17'
SLURRY WEIGHT 14 1/2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20.94
DISPLACEMENT 79.92 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting Rig up on W-2 Run casing & float equipment Turbolizers
*1-6-13-15-19-24-61-63 Baskets *10-21-61-81 Port Collar #62. Circulate
1 in. 5 water ahead mix Mud Flash 5 water behind Plug R.H. with 30SKs, mix 250SKs
Down casing Class "A" 5" Kolseal .25% CDI-26 .14 CAF-38 Displace with 79.92
land Plug 1500' Lift 900' Float Held.

Thanks Dauer & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	\$ 3175.00	\$ 3175.00
5406	40	MILEAGE	\$ 5.25	\$ 210.00
5407A	13.16	Ton Mileage Delivery	\$ 1.25	\$ 921.20
1126	280 SKs	OWC	\$ 23.70	\$ 6636.00
1137	70*	CDI-26	\$ 10.20	\$ 714.00
1146	39*	CAF-38	\$ 10.20	\$ 397.80
1110A	1400*	Kolseal	\$.56	\$ 784.00
1144G	500 gal	mud Flash	\$ 1.00	\$ 500.00
4161	1	4 1/2 AFU Float Shoe (W)	\$ 359.25	\$ 359.25
4453	1	4 1/2 Latch Down Plug Assy (I)	\$ 290.00	\$ 290.00
4129	8	4 1/2 Turbolizers (W)	\$ 60.00	\$ 480.00
4103	4	4 1/2 Baskets (W)	\$ 275.00	\$ 1100.00
4284	1	4 1/2 Port Collar (I) ^{SN#1305268}	\$ 1987.50	\$ 1987.50
1111	100*	Salt	NC	NC
			Sub Total	17551.75
			Less 10%	1755.18
			Sub Total	15796.57
			SALES TAX 8.15	971.57
			ESTIMATED TOTAL	16768.14

Revin 8737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

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CONSOLIDATED
Oil Well Services, LLC

264209

TICKET NUMBER 44541
LOCATION oakley ks.
FOREMAN Damon M. Puzay

PO Box 887, Chanute, KS 66720
620.431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

KANSAS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-20-13	7173	Baker CD #2	13	17S	35 W	WICHITA
CUSTOMER RITCHIE EXPLORATION		Scott City W+O CO. LINE 6N 1/4 W NTW INTO	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			399	JORDON L.		
CITY			529 T-127	JEREMY R.		
STATE			RIDE ALONG	D.J.		
ZIP CODE						

JOB TYPE PORT COLLAR HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 4 1/2 10.5#
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8 OTHER P.C. 2401
 SLURRY WEIGHT 12.7 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 1 BBL
 DISPLACEMENT 0.5 BBL DISPLACEMENT PSI 800* MIX PSI _____ RATE _____

REMARKS: Safety meeting Rigged up on well pressured BACKSIDE @ #1200
26 HELD OPEN TOOL CHECKED FOR RATE MIXED 470 SKS 60/40 670 GEL 1/4 FLU
AND #500 OF HOLES DISPLACED @ 1/2 BBL OF #20 SHUT TOOL TESTED @ #1200
HELD RAN 4 JOINTS IN THEN REVERSED OUT W/ 30 BBL OF #20 WASHED UP
AND RIGGED DOWN
CEMENT DID CIRC TO SURFACE

THANK YOU DAMON FUZZY FOR

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 B	1	PUMP CHARGE	1785.00	1785.00 ✓
5406	40	MILEAGE	5.25	210.00 ✓
5407A	20.21	LOW MILEAGE DELIVERY	7.75	1474.80 ✓
1131	470 SKS	60/40 POZ	15.86	7454.20 ✓
1118B	2425#	BETONITE	.27	654.75 ✓
1107	118#	FLOEAL	2.97	350.46 ✓
1105	500#	COTTON SEED HOLES	.58	290.00 ✓
1111	2 100#	SALT	N/C	N/C ✓
			SUBTOTAL	12159.21 ✓
			LESS 10%	1215.92 ✓
			SUBTOTAL	10943.29 ✓
			8.15	641.77 ✓
			SALES TAX	641.77 ✓
			ESTIMATED TOTAL	11585.06 ✓

completed

Ravin 9737

AUTHORIZATION Guy Rumm

TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

[Handwritten signature]

ALLIED OIL & GAS SERVICES, LLC 062103

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: DAKLEY

DATE <u>11-4-13</u>	SEC. <u>13</u>	TWP. <u>17S</u>	RANGE <u>35W</u>	CALLED OUT	ON LOCATION <u>4:15 PM</u>	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:00 PM</u>
LEASE <u>BAKER 1320</u>	WELL # <u>2</u>	LOCATION <u>SCOTT CITY WEST TO WICHITA</u>			COUNTY <u>WICHITA</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			SCOTT CO LINE - 62-1/4 W - NEW DRIB				

CONTRACTOR WYW DRUG RIG #22 OWNER SAME

TYPE OF JOB <u>SURFACE</u>	CEMENT AMOUNT ORDERED <u>165 SKS COM 3% GEL</u>
HOLE SIZE <u>12 1/4"</u> T.D. <u>222</u>	COMMON <u>165 SKS @ 17.90</u> <u>2953.50</u>
CASINO SIZE <u>4 3/8"</u> DEPTH <u>222</u>	POZMIX @
TUBING SIZE DEPTH	GEL <u>3 SKS @ 23.40</u> <u>70.20</u>
DRILL PIPE DEPTH	CHLORIDE <u>6 SKS @ 64.00</u> <u>384.00</u>
TOOL DEPTH	ASC @
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT	
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13.19 BBLs</u>	

EQUIPMENT

PUMP TRUCK CEMENTER <u>TERREY HENRICH</u>	
# <u>373-281</u> HELPER <u>KEVIN RYAN</u>	
BULK TRUCK	
# <u>396-306</u> DRIVER <u>TALON JONES</u>	
BULK TRUCK	
# DRIVER	

REMARKS:
Hook up to 8% Swedge
circulate 5 mi @ 62 mi X 2.40
3% GEL. Displace 13.19 BBLs WATER

Cement did circulate

CHARGE TO: RITCHIE EXPLORATION
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, 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 Monnie Lang
SIGNATURE Monnie Lang

HANDLING <u>178.42 CUFT @ 2.40</u> <u>442.48</u>
MILBAGE <u>8.143 TONS X 62 mi X 2.40</u> <u>1312.60</u>
TOTAL <u>5162.30</u>

SERVICE

DEPTH OF JOB <u>222</u>
PUMP TRUCK CHARGE <u>1512.25</u>
EXTRA FOOTAGE @
MILBAGE <u>62 MI @ 7.20</u> <u>477.60</u>
MANIFOLD <u>2.5 MI Vehicle 62 MI @ 4.40</u> <u>272.80</u>
TOTAL <u>2262.65</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
TOTAL		

SALES TAX (If Any) _____
TOTAL CHARGES 7,465.28
DISCOUNT 1,707.86 IF PAID IN 30 DAYS
5,717.46 Net

Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 Baker 13CD

Location: SEC 13- twp 17S- rge 35W "WICHITA COUNTY"

License Number: API 15-203-20187

Region: KANSAS

Spud Date: 09/17/2012

Drilling Completed: 10/02/2012

Surface Coordinates: 1780' FSL 830' FEL 130'N 160'E of SW NE SE

Bottom Hole Deviation Surveys are detailed through out the Geo-Report.

Coordinates:

Ground Elevation (ft): 3135'

K.B. Elevation (ft): 3143'

Logged Interval (ft): 3500' To: 4999'

Total Depth (ft): 4999'

Formation: Mississippian

Type of Drilling Fluid: Mud-Co Chemical

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

OPERATOR

Company: Ritchie Exploration Inc. (drilled by DUKE #2)

Address: 8100 E. 22nd ST. N. #700

Wichita, KS, 67278-3188

GEOLOGIST

Name: Adam M.A. Eldani

Company: Ritchie Exploration Inc.

Address: 8100 E. 22nd ST. N. #700

Wichita, KS, 67278-3188

TOPS & DRILL REPORT

TOPS:

E-LOG:

ANHY: 2438'+705
B/ANHY: 2458'+685
STOTLER: 3620'-477
HEEBNER: 4005'-862
LANSING: 4051'-908
MUNCIE: 4234'-1091
STARK: 4341'-1198
ALTAMONT: 4486'-1343
PAWNEE: 4564'-1421
CHEROKEE: 4645'-1502
MISS: 4854'-1711

SAMPLE TOPS:

ANHY: 2436'+707
B/ANHY: 2455'+688
STOTLER: 3619'-476
HEEBNER: 4002'-859
LANSING: 4048'-905
MUNCIE: 4234'-1091
STARK: 4337'-1194
ALTAMONT: 4490'-1347
PAWNEE: 4570'-1427
CHEROKEE: 4642'-1499
MISS: 4854'-1711

DAILY MORNING DRILLING REPORT

9/17 SPUD
9/18 747'
9/19 2131'
9/20 3103'
9/21 3686'
9/22 4054'
9/23 4090'
9/24 4177'
9/25 4270'
9/26 4307'
9/27 4393'
9/28 4494'
9/29 4530'
9/30 4648'
10/1 4905'
10/2 4999'

Misc. Info.

All DST's info. are NEAR the correct log depth.

RIG: DUKE DRILLING RIG #2
DRILLPIPE: 4-1/2" XH

TOOLPUSHER: Dion Vasquez
MUD: MUDCO (Tony Maestas)
GAS DETECTOR: NONE
DRILL STEM TESTS: SUPERIOR TESTING
LOGS: NABORS

OFFICE: MIKE ENGELBREGHT
FIELD: SCOTT BOEH

Comments

SURFACE Casing: 8 5/8" @ 231'

Well Log Surveys BY NABORS: Compensated Density/ Neutron Log, & Dual Induction.

STRUCTURALLY, THIS WELL RAN LOWER TO OFFSET, ALL SHOWS WERE TESTED.

After evaluation of DST's and Electric Logs, 5 1/2" Production casing was set on the #1 BAKER 13CD for further testing for commercial quantities of oil and gas.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.








































































RESPECTFULLY SUBMITTED

Adam M. A. Eldani
























ROCK TYPES

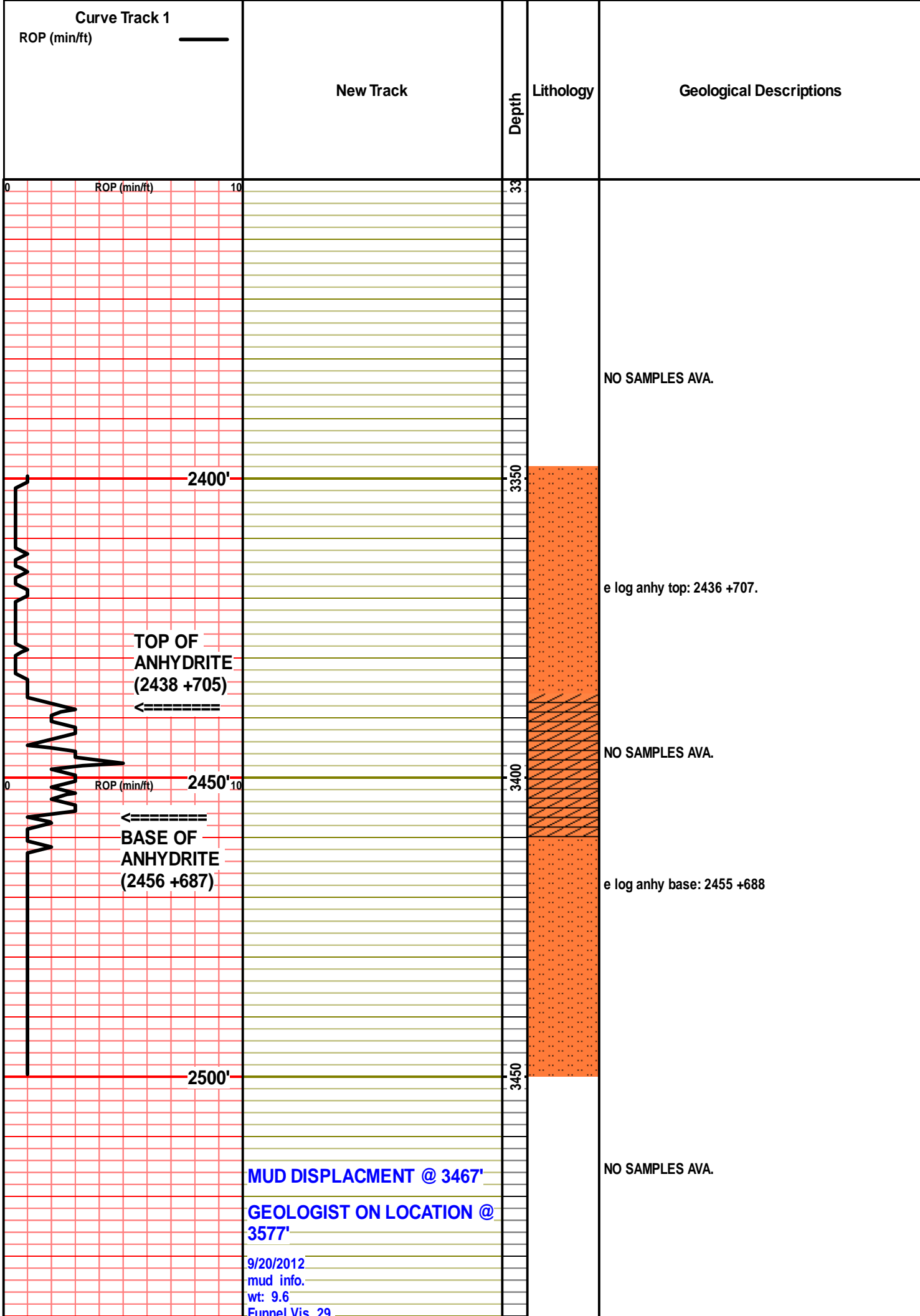
 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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ACCESSORIES

MINERAL  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	FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

POROSITY  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy SORTING  Well  Moderate  Poor	ROUNDING  Rounded  Subrnd  Subang  Angular OIL SHOW  Even	 Spotted  Ques  Dead INTERVAL  Core  Dst	EVENT  Rft  Sidewall
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MUD DISPLACMENT @ 3467'
GEOLOGIST ON LOCATION @ 3577'

9/20/2012
 mud info.
 wt: 9.6
 Funnel Vis: 29

Funnel No. 20
Filtrate API n/c
Chloride 48,000
LCM 1

3500

**PUMP PRESSURE:
850+**

NO SAMPLES AVA.

9/21/2012
mud info.
wt: 8.8
Funnel Vis. 45
Filtrate API 7.2
Chloride 3,700
LCM 1

3550

NO SAMPLES AVA.

PUMP PRESSURE: 900+

3610: mstly red sh, tan-buff dolo/lm, poorly xln, fair por, no odr, ns.

3620: incrs in gry sh, tan pack stn, fair por, no odr, ns.

3630: mstly red, gry and green sh.

3640: drty tan-off gry micrtic lm, semi dense, no odr, ns.

3650: crm-tan fn xln lm, dense, hrd to brk, no odr, ns.

3660: crm grain stn, well cemntd, no odr, ns.

3670: gry semi xln lm, xln por, no odr, ns.

3680: aa, incrs in lght crm v. foss lm, foss cast por, no odr, ns.

3690: incrs in red and gry sh. incrs in gry inxln lm, no odr, ns.

3700: crm-tan v. fn grn lm, well cemtd, no odr, ns.

3710: shw of blk carb sh, tan xln lm, xln por, no odr, ns.

3720: incrs in red and gry sh, lots of crm-tan pack stn lm, fair-poor por, no odr, ns.

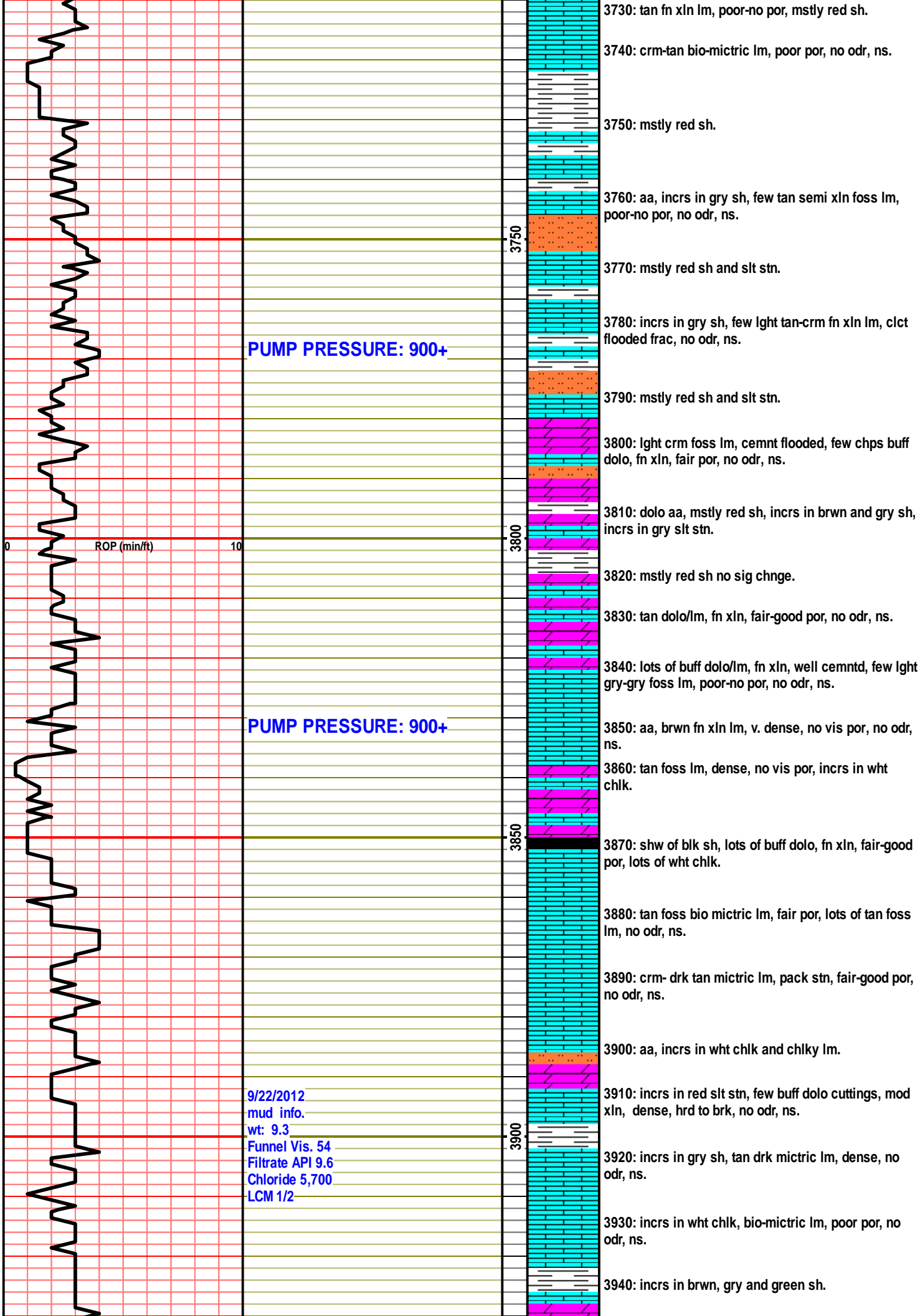
ROP (min/ft)

←
**STOTLER
3620-477**

3600

3650

3700

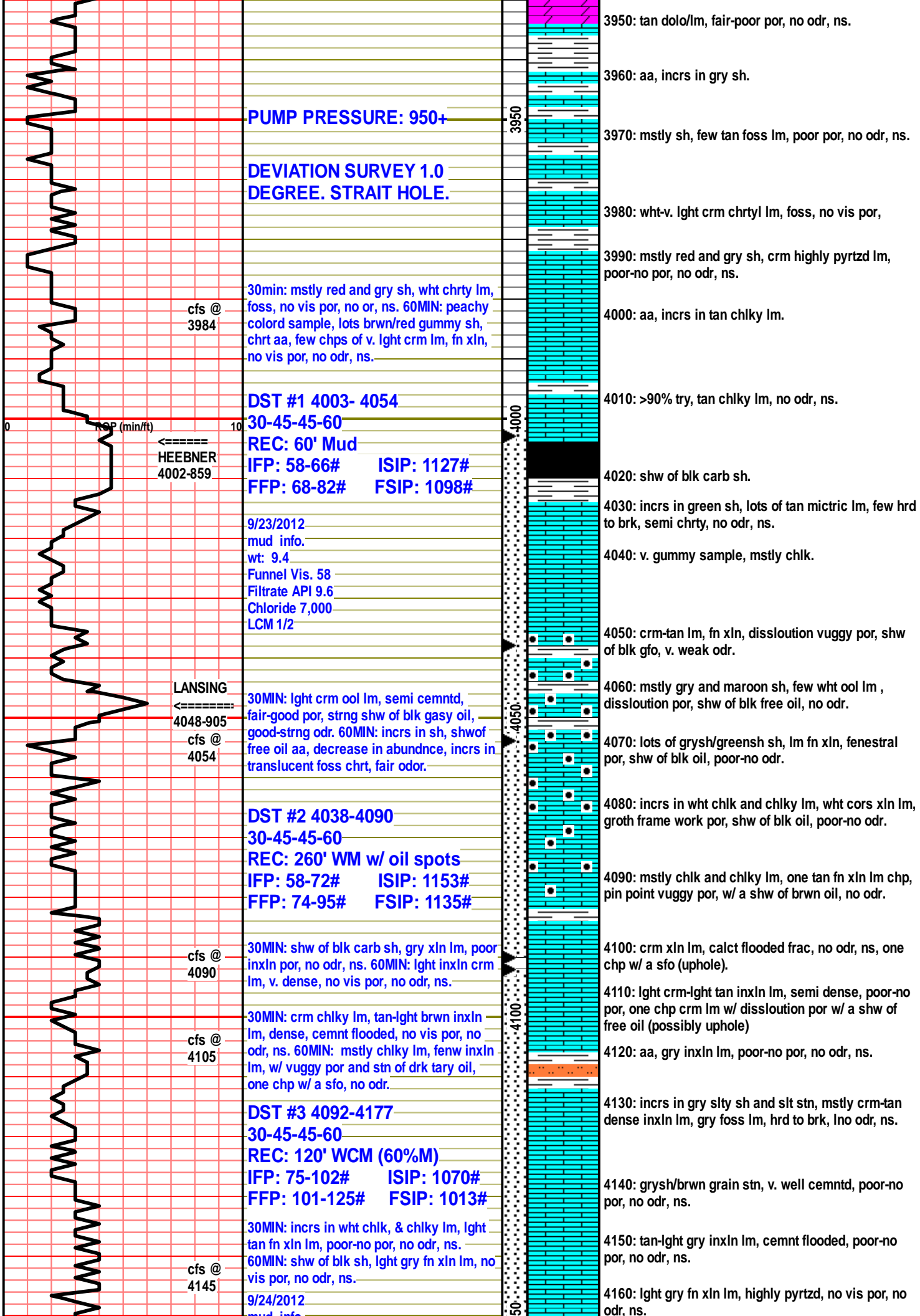


PUMP PRESSURE: 900+

PUMP PRESSURE: 900+

9/22/2012
 mud info.
 wt: 9.3
 Funnel Vis. 54
 Filtrate API 9.6
 Chloride 5,700
 LCM 1/2

3730: tan fn xln lm, poor-no por, mstly red sh.
 3740: crm-tan bio-mictric lm, poor por, no odr, ns.
 3750: mstly red sh.
 3760: aa, incrs in gry sh, few tan semi xln foss lm, poor-no por, no odr, ns.
 3770: mstly red sh and slt stn.
 3780: incrs in gry sh, few lght tan-crm fn xln lm, clct flooded frac, no odr, ns.
 3790: mstly red sh and slt stn.
 3800: lght crm foss lm, cemnt flooded, few chps buff dolo, fn xln, fair por, no odr, ns.
 3810: dolo aa, mstly red sh, incrs in brwn and gry sh, incrs in gry slt stn.
 3820: mstly red sh no sig chnge.
 3830: tan dolo/lm, fn xln, fair-good por, no odr, ns.
 3840: lots of buff dolo/lm, fn xln, well cemntd, few lght gry-gry foss lm, poor-no por, no odr, ns.
 3850: aa, brwn fn xln lm, v. dense, no vis por, no odr, ns.
 3860: tan foss lm, dense, no vis por, incrs in wht chlk.
 3870: shw of blk sh, lots of buff dolo, fn xln, fair-good por, lots of wht chlk.
 3880: tan foss bio mictric lm, fair por, lots of tan foss lm, no odr, ns.
 3890: crm- drk tan mictric lm, pack stn, fair-good por, no odr, ns.
 3900: aa, incrs in wht chlk and chlky lm.
 3910: incrs in red slt stn, few buff dolo cuttings, mod xln, dense, hrd to brk, no odr, ns.
 3920: incrs in gry sh, tan drk mictric lm, dense, no odr, ns.
 3930: incrs in wht chlk, bio-mictric lm, poor por, no odr, ns.
 3940: incrs in brwn, gry and green sh.



3950: tan dolo/lm, fair-poor por, no odr, ns.

3960: aa, incrs in gry sh.

PUMP PRESSURE: 950+

3950

3970: mstly sh, few tan foss lm, poor por, no odr, ns.

DEVIATION SURVEY 1.0 DEGREE. STRAIT HOLE.

3980: wht-v. lght crm chrtyl lm, foss, no vis por,

3990: mstly red and gry sh, crm highly pyrtzd lm, poor-no por, no odr, ns.

cfs @ 3984

30min: mstly red and gry sh, wht chrty lm, foss, no vis por, no or, ns. 60MIN: peachy colord sample, lots brwn/red gummy sh, chrt aa, few chps of v. lght crm lm, fn xln, no vis por, no odr, ns.

4000: aa, incrs in tan chlky lm.

DST #1 4003- 4054

30-45-45-60

REC: 60' Mud

IFP: 58-66#

ISIP: 1127#

FFP: 68-82#

FSIP: 1098#

4000

4010: >90% try, tan chlky lm, no odr, ns.

ROP (min/ft)
HEEBNER 4002-859

9/23/2012
mud info.
wt: 9.4
Funnel Vis. 58
Filtrate API 9.6
Chloride 7,000
LCM 1/2

4020: shw of blk carb sh.

4030: incrs in green sh, lots of tan mictric lm, few hrd to brk, semi chrty, no odr, ns.

4040: v. gummy sample, mstly chlky.

LANSING
4048-905
cfs @ 4054

30MIN: lght crm ool lm, semi cemntd, fair-good por, strng shw of blk gasy oil, good-strng odr. 60MIN: incrs in sh, shwof free oil aa, decrease in abundnce, incrs in translucent foss chrt, fair odor.

4050: crm-tan lm, fn xln, dissoluton vuggy por, shw of blk gfo, v. weak odr.

4060: mstly gry and maroon sh, few wht ool lm, dissoluton por, shw of blk free oil, no odr.

4070: lots of grysh/greenish sh, lm fn xln, fenestral por, shw of blk oil, poor-no odr.

DST #2 4038-4090

30-45-45-60

REC: 260' WM w/ oil spots

IFP: 58-72#

ISIP: 1153#

FFP: 74-95#

FSIP: 1135#

4050

4080: incrs in wht chlky and chlky lm, wht cors xln lm, groth frame work por, shw of blk oil, poor-no odr.

4090: mstly chlky and chlky lm, one tan fn xln lm chp, pin point vuggy por, w/ a shw of brwn oil, no odr.

cfs @ 4090

30MIN: shw of blk carb sh, gry xln lm, poor inxln por, no odr, ns. 60MIN: lght inxln crm lm, v. dense, no vis por, no odr, ns.

4100: crm xln lm, calct flooded frac, no odr, ns, one chp w/ a sfo (uphole).

cfs @ 4105

30MIN: crm chlky lm, tan-lght brwn inxln lm, dense, cemnt flooded, no vis por, no odr, ns. 60MIN: mstly chlky lm, few inxln lm, w/ vuggy por and stn of drk tary oil, one chp w/ a sfo, no odr.

4110: lght crm-lght tan inxln lm, semi dense, poor-no por, one chp crm lm w/ dissoluton por w/ a shw of free oil (possibly uphole)

4120: aa, gry inxln lm, poor-no por, no odr, ns.

DST #3 4092-4177

30-45-45-60

REC: 120' WCM (60%M)

IFP: 75-102#

ISIP: 1070#

FFP: 101-125#

FSIP: 1013#

4100

4130: incrs in gry slty sh and slt stn, mstly crm-tan dense inxln lm, gry foss lm, hrd to brk, lno odr, ns.

4140: grysh/brwn grain stn, v. well cemntd, poor-no por, no odr, ns.

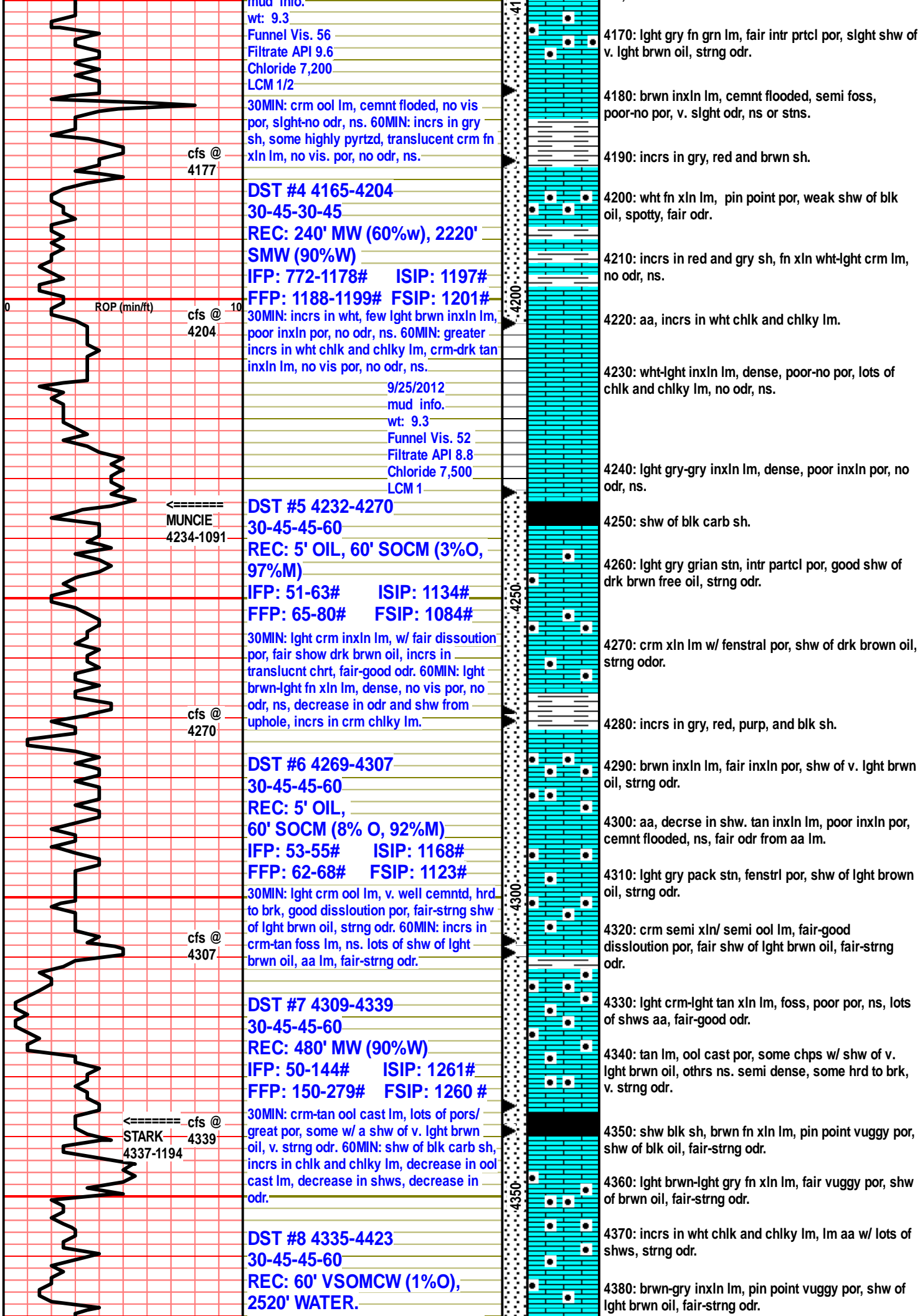
cfs @ 4145

30MIN: incrs in wht chlky, & chlky lm, lght tan fn xln lm, poor-no por, no odr, ns. 60MIN: shw of blk sh, lght gry fn xln lm, no vis por, no odr, ns.

4150: tan-lght gry inxln lm, cemnt flooded, poor-no por, no odr, ns.

4160: lght gry fn xln lm, highly pyrtzd, no vis por, no odr, ns.

4150



mud info.

wt: 9.3
 Funnel Vis. 56
 Filtrate API 9.6
 Chloride 7,200
 LCM 1/2

30MIN: crm ool lm, cemnt floded, no vis por, slight-no odr, ns. 60MIN: incrs in gry sh, some highly pyrtzd, translucent crm fn xln lm, no vis. por, no odr, ns.

cfs @ 4177

DST #4 4165-4204
 30-45-30-45
 REC: 240' MW (60%W), 2220' SMW (90%W)
 IFP: 772-1178# ISIP: 1197#

FFP: 1188-1199# FSIP: 1201#
 30MIN: incrs in wht, few lght brwn inxln lm, poor inxln por, no odr, ns. 60MIN: greater incrs in wht chlk and chlky lm, crm-drk tan inxln lm, no vis por, no odr, ns.

cfs @ 4204

9/25/2012
 mud info.
 wt: 9.3
 Funnel Vis. 52
 Filtrate API 8.8
 Chloride 7,500
 LCM 1

DST #5 4232-4270
 30-45-45-60
 REC: 5' OIL, 60' SOCM (3%O, 97%M)
 IFP: 51-63# ISIP: 1134#

FFP: 65-80# FSIP: 1084#
 30MIN: lght crm inxln lm, w/ fair dissoution por, fair shw drk brwn oil, incrs in translucent chrt, fair-good odr. 60MIN: lght brwn-lght fn xln lm, dense, no vis por, no odr, ns, decrease in odr and shw from uphole, incrs in crm chlky lm.

cfs @ 4270

DST #6 4269-4307
 30-45-45-60
 REC: 5' OIL, 60' SOCM (8% O, 92%M)
 IFP: 53-55# ISIP: 1168#

FFP: 62-68# FSIP: 1123#
 30MIN: lght crm ool lm, v. well cemntd, hrd to brk, good dissoution por, fair-strng shw of lght brwn oil, strng odr. 60MIN: incrs in crm-tan foss lm, ns. lots of shw of lght brwn oil, aa lm, fair-strng odr.

cfs @ 4307

DST #7 4309-4339
 30-45-45-60
 REC: 480' MW (90%W)
 IFP: 50-144# ISIP: 1261#

FFP: 150-279# FSIP: 1260 #
 30MIN: crm-tan ool cast lm, lots of pors/ great por, some w/ a shw of v. lght brwn oil, v. strng odr. 60MIN: shw of blk carb sh, incrs in chlk and chlky lm, decrease in ool cast lm, decrease in shws, decrease in odr.

cfs @ 4339
 STARK 4337-1194

DST #8 4335-4423
 30-45-45-60
 REC: 60' VSOMCW (1%O), 2520' WATER.

4170: lght gry fn grn lm, fair intr prtcl por, slight shw of v. lght brwn oil, strng odr.

4180: brwn inxln lm, cemnt floded, semi foss, poor-no por, v. slight odr, ns or stns.

4190: incrs in gry, red and brwn sh.

4200: wht fn xln lm, pin point por, weak shw of blk oil, spotty, fair odr.

4210: incrs in red and gry sh, fn xln wht-lght crm lm, no odr, ns.

4220: aa, incrs in wht chlk and chlky lm.

4230: wht-lght inxln lm, dense, poor-no por, lots of chlk and chlky lm, no odr, ns.

4240: lght gry-gry inxln lm, dense, poor inxln por, no odr, ns.

4250: shw of blk carb sh.

4260: lght gry grian stn, intr partcl por, good shw of drk brwn free oil, strng odr.

4270: crm xln lm w/ fenstral por, shw of drk brown oil, strng odor.

4280: incrs in gry, red, purp, and blk sh.

4290: brwn inxln lm, fair inxln por, shw of v. lght brwn oil, strng odr.

4300: aa, decrse in shw. tan inxln lm, poor inxln por, cemnt floded, ns, fair odr from aa lm.

4310: lght gry pack stn, fenstrl por, shw of lght brown oil, strng odr.

4320: crm semi xln/ semi ool lm, fair-good dissoution por, fair shw of lght brwn oil, fair-strng odr.

4330: lght crm-lght tan xln lm, foss, poor por, ns, lots of shws aa, fair-good odr.

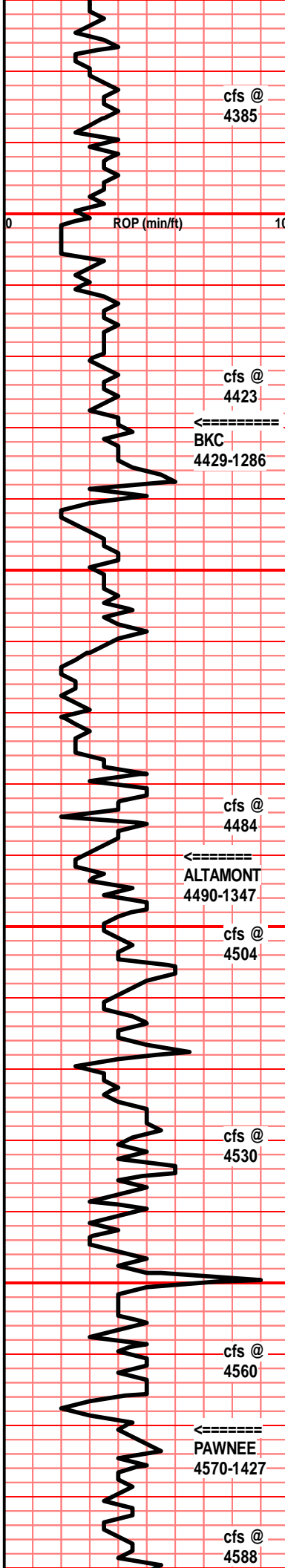
4340: tan lm, ool cast por, some chps w/ shw of v. lght brwn oil, othrs ns. semi dense, some hrd to brk, v. strng odr.

4350: shw blk sh, brwn fn xln lm, pin point vuggy por, shw of blk oil, fair-strng odr.

4360: lght brwn-lght gry fn xln lm, fair vuggy por, shw of brwn oil, fair-strng odr.

4370: incrs in wht chlk and chlky lm, lm aa w/ lots of shws, strng odr.

4380: brwn-gry inxln lm, pin point vuggy por, shw of lght brwn oil, fair-strng odr.



IFP: 200-699# ISIP: 1252#
 FFP: 734-1059# FSIP: 1254#

30MIN: lght gry-drty tan inxln lm, some chps w/ shw, semi foss, poor por, lots of chlkly lm, fair odr. 60MIN: drty crm-lght fn xln lm, frac and pin point vuggy por, shw of lght brwn oil, strng odr.

9/26/2012 mud info. wt: 9.4 Funnel Vis. 56 Filtrate API 11.2 Chloride 9,700 LCM 1
 9/27/2012 mud info. wt: 9.1 Funnel Vis. 53 Filtrate API 9.6 Chloride 9,000 LCM 1

30MIN: incrs in green and gry sh, crm-tan xln lm, poor-no por, no odr ns, one pice fn xln lm w/ pin point vuggy por w/ weak shw of oil (uphole). 60MIN: lots of gry and maroon sh, tan-gry inxln lm, cemnt flooded, no odr, ns. two chps inxln lm w/ shw (uphole).

DST #9 4435-4504
 30-45-45-60
RECORDING ERROR ON THE 1ST SHUT IN.
REC: 10' OIL,
50' OCM (20%O)
IFP: 62-70# ISIP: 138#
FFP: 75-83# FSIP: 1211#

30MIN: lots og lght gry gummy chlk, tan fn xln lm, no vis por, incrs in pack stn shws (looks as above) no odr. 60MIN: lght gry semi xln semi granul med grn lm, w/ pin point vuggy por, w/ a shw of brwn oil, mod-strng odr.

30MIN: incrs in gry and maroon sh, incrs in chlk, tan-gry fn xln lm, no vis por, nodr, ns. 60MIN: tan cors xln lm, frac por, foss, incrs in pyrt, ns, no odr.

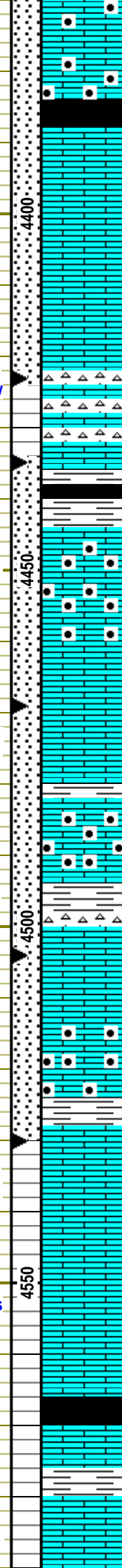
DST #10 4469-4530
 30-45-45-60
REC: 570' GIP,
570' GO (90%O),
120' GMCO (10%G, 50%O)
IFP: 79-181# ISIP: 1333#
FFP: 188-313# FSIP: 1321#

30MIN: crm ool lm, intr prtcl por, well cemntd, shw of lght brwn oil, tan inxln lm, poor inxln por(ns), fair-mod odr. 60MIN: aa w/ shw, few chpstan inxln lm w/ inxln por w/ a slght shw brwn oil, fair odr.

30MIN: show of brwn chrt, tan-lght brwn inxln lm, semi chrty, cemnt flooded, no vis por, no odr, ns. 60MIN: shw of gry chrty ool, ool lm, cemnt floded no vis por, no odr, ns.

9/28/2012 mud info. wt: 9.2 Funnel Vis. 45 Filtrate API 10.4 Chloride 9,600 LCM 1/2

30MIN: crm-tan foss lm, dense, no vis por, no odr ns. 60MIN: incrs in wht chlk, incrs



4390: tan ool lm, well cemntd, hrd to brk, aa w/ a shw of free oil, mod odr.

4400: shw of blk carb sh, incrs in mlky chrt, tan foss lm, dense, poor por, few inxln lm pices w/ a shw of free oil (uphole).

4410: lght tan-drk tan inxln lm, cemnt flooded, poor-no por, no odr, ns.

4420: aa, no sig change, no odr, ns.

4430: tan-brwn inxln lm, foss, well cemntd, poor-no por, one pice w/ show (uphole) fair odr.

4440: incrs in gry foss chrt, incrs gry sh, brwn-tan foss lm, cemnt flooded, no vis por, no odr, ns.

4450: shw of blk carb sh, drk crm-tan fn xln lm, no vis por, no odr, ns.

4460: gry pack stn lm, fair intr prtcl por, abundant fair show of drk brwn oil, fair-mod odr.

4470: aa/ incrs in fluid shw, incrs drk tan-brwn mictric lm, v. fn grn (ns), fair-mod odr.

4480: incrs in chlk and chlkly lm, one pice gry pack stn w/ a shw (uphole), no odr.

4490: drk tan-gry inxln lm, semi foss, semi dense, no vis por, ns, incrs in fn grn gry slt stn.

4500: gry prtly xln lm, fair inxln por, shw of brwn gasy oil, slight-fair odr.

4510: mstly gry and maroon sh, incrs in wht chrt, lots of fn xln lm, no vis por, no odr, ns.

4520: aa, no sig change.

4530: crm ool lm, fair-poor intr prtcl por, shw of lght brwn oil, slght-fair odr.

4540: incrs in gry and maroon sh, two chps tan fn xln lm w/ a show of free brwn oil, faint-no odr.

4550: tan fn xln lm, pin point vuggy por, w/ a weak show of drk brwn oil, lots of gry inxln lm, poor por, no odr, ns.

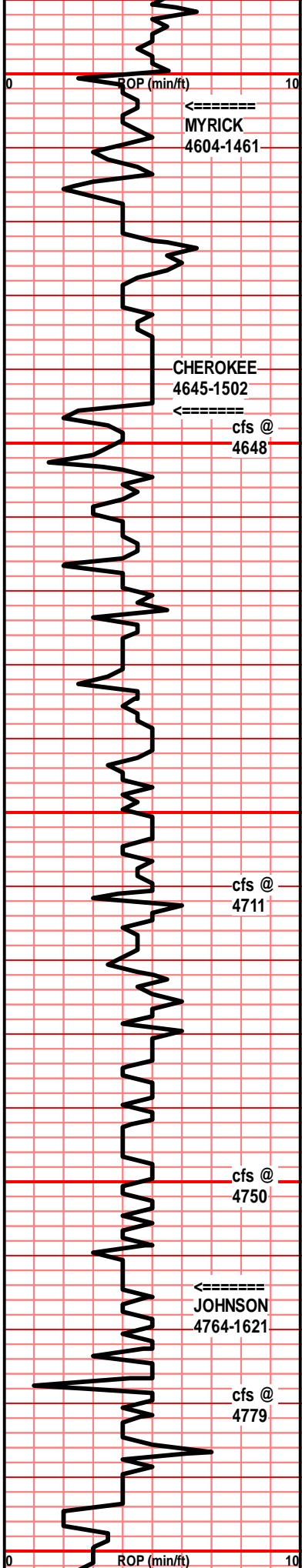
4560: tan-gry inxln lm, v. dense, no vis por, no odr, ns.

4570: aa/ no sig change, no odr, ns.

4580: lots of blk carb sh.

4590: incrs in gry sh, tan cors xln lm, dense, frac por, no odr, ns.

4600: lght tan inxln lm, dense, poor por, no odr, ns.



in brwn chrt, one chp crmsh/tan xln lm, frac por, w/ a v. weak shw of free oil, no odr, ns.

9/29/2012
mud info.
wt: 9.3
Funnel Vis. 52
Filtrate API 9.6
Chloride 9,400
LCM 2

PUMP PRESSURE: 875+

30MIN: shw of blk carb sh, incrs in crm chky lm, lots of foss inxln lm, no odr, ns. 60MIN: lots of gry and blk carb sh, incrs in gry inxln lm, foss, no odr, ns.

DEVIATION : 1.0 DEGREE. STRAIT HOLE.

30MIN: lots of green and gry sh, tan ool lm, cemnt floded, no vis por, no odr, ns.

9/30/2012
mud info.
wt: 9.1
Funnel Vis. 50
Filtrate API 11.2
Chloride 9,800
LCM 1

30MIN: gry micrtic lm, v. fn grn, hrd to brk, no odr, ns. 60MIN: mstly gry and maroon sh, lm aa/ no odr, ns.

PUMP PRESSURE: 875+

30MIN: mstly maroon, green, & gry sh, lots of pyrt, incrs in chlky lm, few tan-brwn inxln lm, sli foss, no odr, ns. 60MIN: mstly sh aa, lm aa, no odr, ns.

4600: lght tan inxln lm, dense, poor por, no odr, ns.

4610: shw of blk carb sh, gry bio micrtic lm, tan semi foss xln lm, poor por, no odr, ns.

4620: crm-tan in xln lm, cemnt floded, no vis. por, no odr, ns.

4630: show blk carb sh, incrs in foss translucent chert, lm aa, no odr, ns.

4640: crm ool lm, cemnt floded, no vis por, no odr, ns.

4650: aa, incrs in chrt, no odr, ns.

4660: tan ool lm, cemnt floded, no vis por, lots of tan inxln lm, dense, poor-no por, no odr, ns.

4670: lght gry micrtic lm, v. fn grn, well cemntd, no odr, ns.

4680: incrs in blk carb sh, lght brwn foss/sli ool lm, poor por, no odr, ns.

4690: incrs in brwn and mlky chrt, tan cors inxln lm, cemnt floded frags, no odr, ns.

4700: incrs in gry and green sh.

4710: tan ool lm, cemnt floded, no vis por, no odr, ns.

4720: incrs in gry sh, tan-lght brwn inxln lm, inxln por, no odr, ns.

4730: tan ool lm, poor-no por, no odr, ns.

4740: lots of gry sh, crm inxln lm, sli foss, poor por, no odr, ns.

4750: incrs in purp and green sh, crm xn lm, hghly pyrtzd, foss, no odr, ns.

4760: lots of gry and maroon sh, tan fn xln lm, poor-no por, no odr, ns.

4770: mstly gry and maroon sh, lght-drk brwn xln lm, poor-no por, no odr, ns.

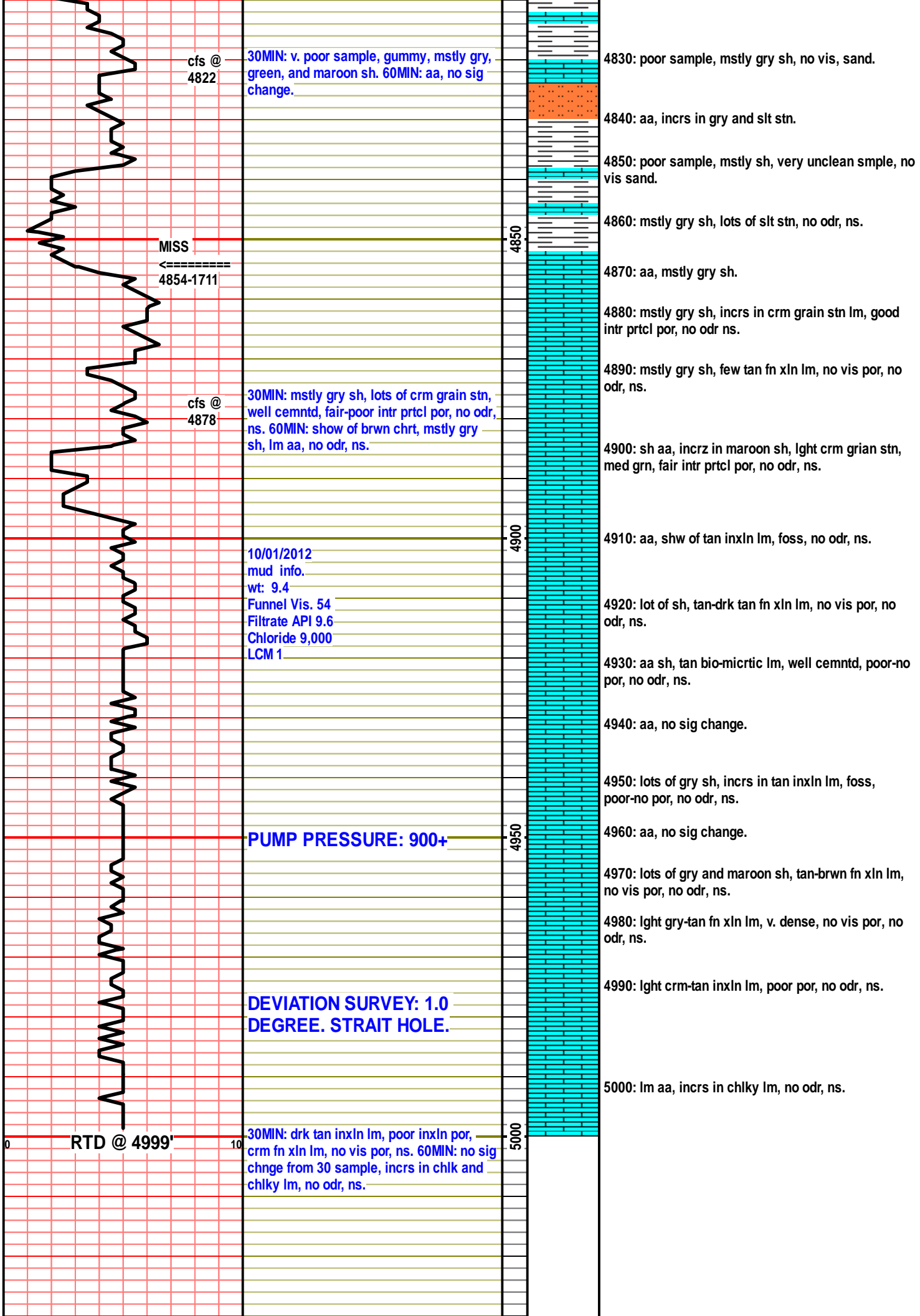
4780: aa, incrs in brwn sh.

4790: mstly gry, green and maroon sh, incrs in chlky.

4800: sh aa, crm-tan semi xln semi foss lm, poor por, no odr, ns.

4810: aa, no sig change.

4820: mstly gry and green, brwn sh, incrs in chlky.



cfs @ 4822
 30MIN: v. poor sample, gummy, mstly gry, green, and maroon sh. 60MIN: aa, no sig change.

4830: poor sample, mstly gry sh, no vis, sand.

4840: aa, incrs in gry and slt stn.

4850: poor sample, mstly sh, very unclean smple, no vis sand.

MISS
 <-----
 4854-1711

4850

4860: mstly gry sh, lots of slt stn, no odr, ns.

4870: aa, mstly gry sh.

4880: mstly gry sh, incrs in crm grain stn lm, good intr prtcl por, no odr ns.

cfs @ 4878
 30MIN: mstly gry sh, lots of crm grain stn, well cemntd, fair-poor intr prtcl por, no odr, ns. 60MIN: show of brwn chrt, mstly gry sh, lm aa, no odr, ns.

4890: mstly gry sh, few tan fn xln lm, no vis por, no odr, ns.

4900: sh aa, incrz in maroon sh, lght crm grian stn, med grn, fair intr prtcl por, no odr, ns.

4900

4910: aa, shw of tan inxln lm, foss, no odr, ns.

10/01/2012
 mud info.
 wt: 9.4
 Funnel Vis. 54
 Filtrate API 9.6
 Chloride 9,000
 LCM 1

4920: lot of sh, tan-drk tan fn xln lm, no vis por, no odr, ns.

4930: aa sh, tan bio-micrtic lm, well cemntd, poor-no por, no odr, ns.

4940: aa, no sig change.

4950: lots of gry sh, incrs in tan inxln lm, foss, poor-no por, no odr, ns.

PUMP PRESSURE: 900+

4950

4960: aa, no sig change.

4970: lots of gry and maroon sh, tan-brwn fn xln lm, no vis por, no odr, ns.

4980: lght gry-tan fn xln lm, v. dense, no vis por, no odr, ns.

DEVIATION SURVEY: 1.0 DEGREE. STRAIT HOLE.

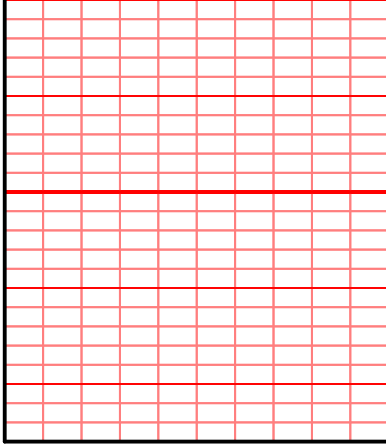
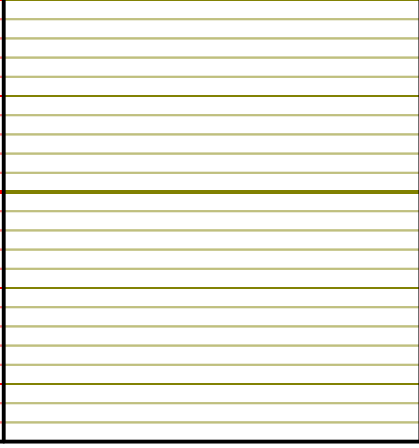

4990: lght crm-tan inxln lm, poor por, no odr, ns.

RTD @ 4999'

30MIN: drk tan inxln lm, poor inxln por, crm fn xln lm, no vis por, ns. 60MIN: no sig chnge from 30 sample, incrs in chlk and chlky lm, no odr, ns.

5000

5000: lm aa, incrs in chlky lm, no odr, ns.

			
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