



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



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

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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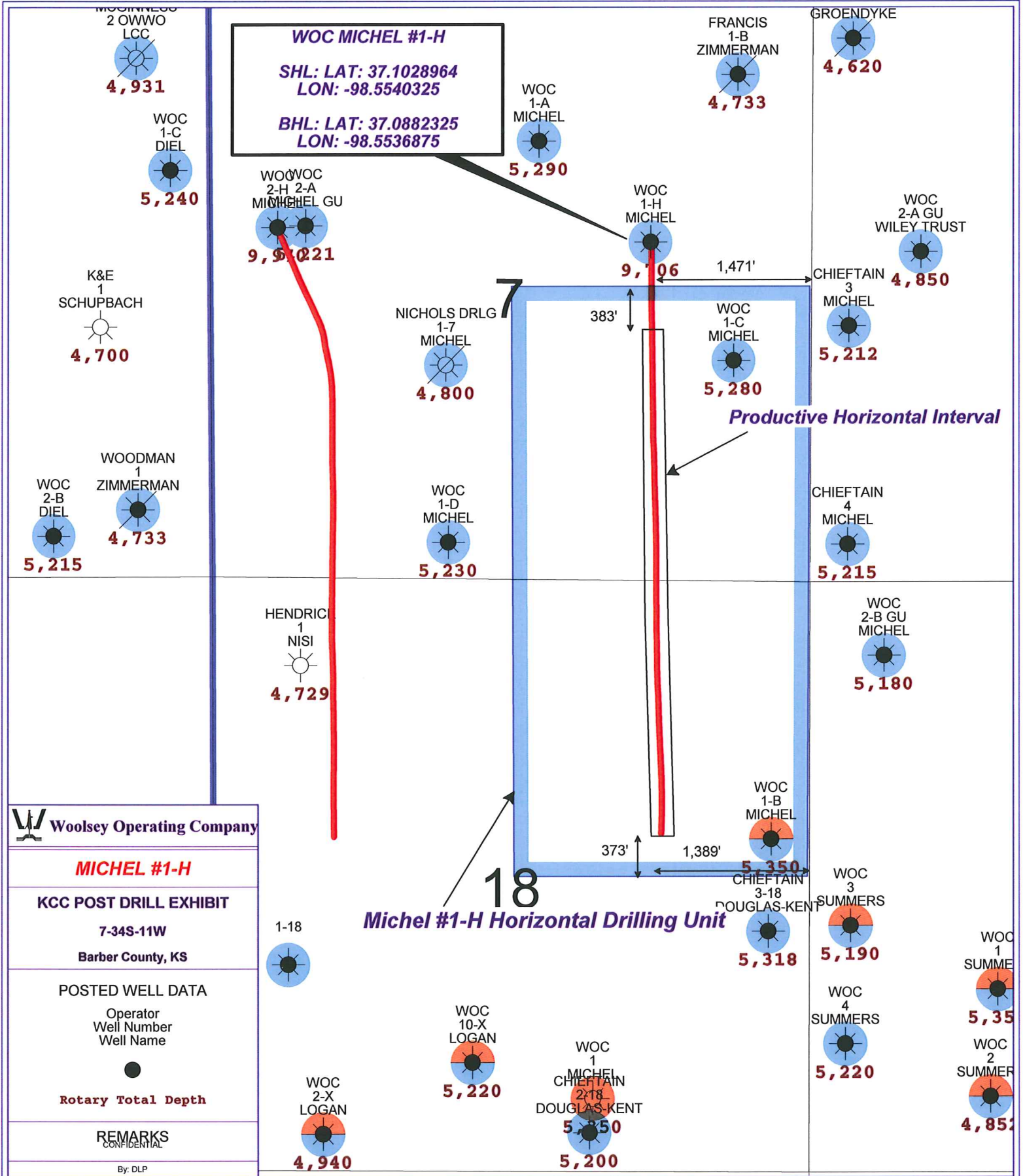
DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	MICHEL 1 H
Doc ID	1169525

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
CONDUCTOR	30	20	53	40	GROUT	4	4 YDS not SX
SURFACE	17.5	13.375	48	337	CLASS A	320	2% GEL, 3% CC
INTERMEDIATE	8.75	7	26	5167	60/40 POZMIX	50	
INTERMEDIATE	8.75	7	26	5167	CLASS H	150	SEE ATTACHED
PRODUCTION	6.125	4.5	11.6	9681	NONE	0	

WOC MICHEL #1-H
 SHL: LAT: 37.1028964
 LON: -98.5540325
 BHL: LAT: 37.0882325
 LON: -98.5536875



Woolsey Operating Company

MICHEL #1-H

KCC POST DRILL EXHIBIT

7-34S-11W

Barber County, KS

POSTED WELL DATA

Operator
Well Number
Well Name

Rotary Total Depth

REMARKS

CONFIDENTIAL

By: DLP

P.O. # _____

BIG BUCKETS RATHOLE DRILLING

No 5232

ORDERED BY _____

P.O. Box 5252
Enid, Oklahoma 73702
Phone (580) 233-9850
Fax (580) 233-4588

Date 5/7/13

Mike Sharp

Bill To _____

Woolsey Operating LLC

Lease _____

Michel #14

Address _____

Legal _____

Sec 7-345-11W

County _____

Barber Ks

Rig _____

Dan D Only #11

DESCRIPTION	AMOUNT
Furnish Men & Equipment To <u>Drill rat, mouse holes & Beat some & 5' of 60" cellar & 40 ft. of 30" hole & remove dirt off loc</u>	
Materials Furnished <u>40 ft. of 20" pipe - 4 yds of 8 pk grout - 5' of 60" timber (cellar form) 50 ft. of 15" timber (R&M Beets) - Welder & plate - Ks trip permits</u>	<u>\$ 6725.00</u>
Operator <u>Beau Whittington</u>	Approved By _____
	Total <u>\$ 6725.00</u>

ALLIED OIL & GAS SERVICES, LLC 059539

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>6-7-2013</u>	SEC. <u>7</u>	TWP. <u>34s</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Michesi</u>		WELL # <u>1-H</u>		LOCATION <u>1602281, South to T91bet</u>		COUNTY <u>Bsiber</u>	STATE <u>Ks</u>
OLD OR <u>NEW</u> (Circle one)			RD, 1 egg, 1 Sawn, N&S (in co)				

CONTRACTOR <u>Don D #11</u>	OWNER <u>Woolsey Operating</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>17 1/2</u>	T.D. <u>340'</u>
CASING SIZE <u>13 3/4</u>	DEPTH <u>337</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>50 bbls of Fresh water</u>	

EQUIPMENT	
PUMP TRUCK CEMENTER <u>Don F.</u>	
# <u>558-555</u> HELPER <u>Jake H.</u>	
BULK TRUCK	
# <u>356-290</u> DRIVER <u>Jason T.</u>	
BULK TRUCK	
#	DRIVER
REMARKS:	
<u>See Cement logs</u>	

CEMENT	
AMOUNT ORDERED <u>320sq Class A + 8% off</u>	
<u>296601</u>	
COMMON <u>Class A 320sq @ 17.90</u>	<u>5728.00</u>
POZMIX @	
GEL <u>6sq @ 23.40</u>	<u>140.40</u>
CHLORIDE <u>11sq @ 64.00</u>	<u>704.00</u>
ASC @	
@	
@	
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@	
HANDLING <u>346 fr' @ 2.48</u>	<u>859.08</u>
MILEAGE <u>15.8 - 15 - 2.60</u>	<u>616.20</u>
	<u>8046.68</u>
TOTAL	

SERVICE	
DEPTH OF JOB <u>337'</u>	
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE @	
MILEAGE <u>15 @ 7.70</u>	<u>115.50</u>
MANIFOLD <u>NA @ NA</u>	
<u>Light Vehicle 15 @ 4.40</u>	<u>66.00</u>
@	
TOTAL	<u>1693.75</u>

PLUG & FLOAT EQUIPMENT	
<u>none</u> @	
@	
@	
@	
@	
TOTAL	

SALES TAX (If Any)	
TOTAL CHARGES	<u>9740.43</u>
DISCOUNT	

PRINTED NAME X MIKE THARP

SIGNATURE X Mike Tharp

Thank you!!!

WELL FILE

Regulatory Correspondence
Drig / Comp Workovers
Tests / Meters Operations

JUL - 8 2013

7013.11

ALLIED OIL & GAS SERVICES, LLC 059511

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Lodge
01/20/13

DATE <u>6-19-13</u>	SEC. <u>7</u>	TWP. <u>34s</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Michen</u>	WELL# <u>1-14</u>	LOCATION <u>S on 281 To Talbot F1</u>			COUNTY <u>Barber</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>S1, W+S/into</u>			

CONTRACTOR Dan D
 TYPE OF JOB Intermediate
 HOLE SIZE 8 3/4 T.D. 5180
 CASING SIZE 7 DEPTH 5167
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1300 MINIMUM
 MEAS. LINE SHOE JOINT 45
 CEMENT LEFT IN CSG. 45
 PERFS.
 DISPLACEMENT 198 1/2 Bbls Fresh H2O

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 50s x 60:40:40 gel
150s x Class H 10% gypt 10% salt
+ 6# Kolsealt. 5% F1-160 + 1/4" Flo
5 seal
 COMMON A 30 sx @ 17.90 537.00
 POZMIX 20 sx @ 9.35 187.00
 GEL 2 sx @ 23.40 46.80
 CHLORIDE @
 ASC @
Class H 150 sx @ 21.20 3180.00
Gypseal 1410 @ 37.60 526.40
Salt 16 sx @ 26.35 421.60
Kolseal 900# @ .98 882.00
F1-160 70# @ 18.90 1323.00
Flo seal 37.5# @ 2.97 111.37
 @
 @
 HANDLING 265 @ 2.48 657.59
 MILEAGE 10.89/10/2.60 (mi) 387.00
 TOTAL 8259.76

EQUIPMENT
 PUMP TRUCK CEMENTER Jason Thinesch
 # 558-555 HELPER Jake Heard
 BULK TRUCK
 # 381/250 DRIVER Ryan Reeves
 BULK TRUCK
 # DRIVER

REMARKS:
See Cement Log
Plug hold

WELL FILE

Regulatory Correspondence
 Drlg. Comp Workovers
 Tests / Meters Operations

SERVICE
 DEPTH OF JOB 5167
 PUMP TRUCK CHARGE 3099.25
 EXTRA FOOTAGE @
 MILEAGE 10 @ 7.70 77.00
 MANIFOLD @ 275.00
Light Use 10 @ 4.40 44.00
 @
 TOTAL 3495.25

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

7" PLUG & FLOAT EQUIPMENT
1- Rubber Plug @ 99.45
1- Float Shoe @ 762.33
1- 1" Collar @ 886.86
 @
 @
 TOTAL 1698.84

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.

SALES TAX (If Any) _____
 TOTAL CHARGES 13,453.85
 DISCOUNT _____ IF PAID IN 30 DAYS
(Net) 9686.77

PRINTED NAME X MIKE THARP
 SIGNATURE X Mike Tharp

JUL - 3 2013

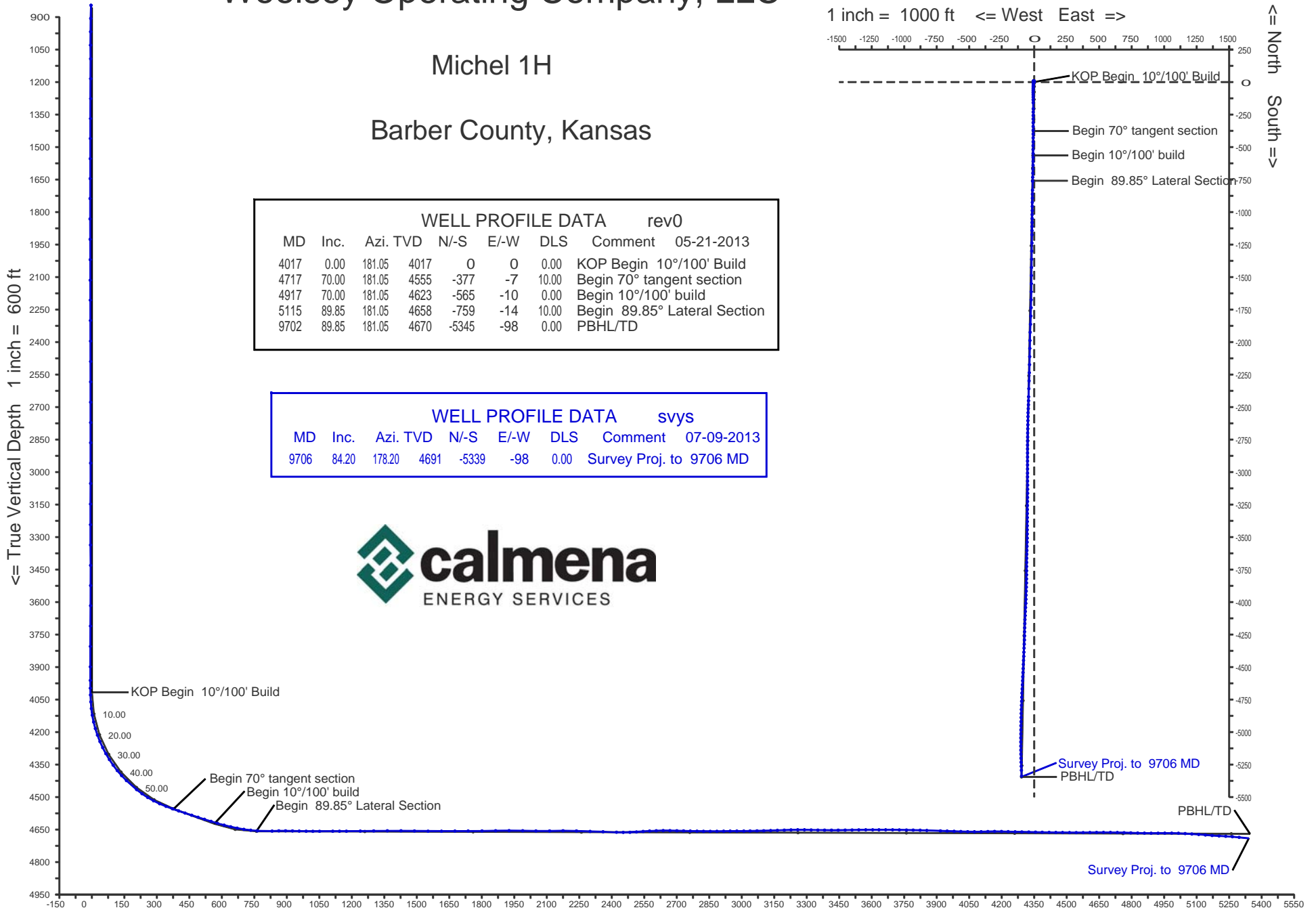
Woolsey Operating Company, LLC

Michel 1H

Barber County, Kansas

WELL PROFILE DATA rev0							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
4017	0.00	181.05	4017	0	0	0.00	KOP Begin 10°/100' Build
4717	70.00	181.05	4555	-377	-7	10.00	Begin 70° tangent section
4917	70.00	181.05	4623	-565	-10	0.00	Begin 10°/100' build
5115	89.85	181.05	4658	-759	-14	10.00	Begin 89.85° Lateral Section
9702	89.85	181.05	4670	-5345	-98	0.00	PBHL/TD

WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N/-S	E/-W	DLS	Comment
9706	84.20	178.20	4691	-5339	-98	0.00	Survey Proj. to 9706 MD



Vertical Section on 181.05 deg azimuth with reference 0.00 N, 0.00 E

Calmena Energy Services

Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
 Surveys
 Page 1
 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 181.05° (feet)	Az Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
Surface Location								158821.00	1984222.00	2246 FNL 1480 FEL
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158821.00	1984222.00	
785.00	0.70	318.20	784.98	3.57	-3.20	0.09	-3.52	158824.57	1984218.80	
846.00	1.10	343.00	845.97	4.41	-3.62	0.90	-4.35	158825.41	1984218.38	
907.00	0.90	321.40	906.96	5.35	-4.09	0.69	-5.27	158826.35	1984217.91	
968.00	0.80	317.00	967.96	6.03	-4.68	0.20	-5.95	158827.03	1984217.32	
1030.00	0.70	249.00	1029.95	6.21	-5.32	1.36	-6.11	158827.21	1984216.68	
1093.00	0.40	204.70	1092.95	5.88	-5.78	0.79	-5.77	158826.88	1984216.22	
1185.00	0.20	5.40	1184.95	5.74	-5.89	0.64	-5.63	158826.74	1984216.11	
1277.00	0.40	32.60	1276.95	6.17	-5.71	0.26	-6.07	158827.17	1984216.29	
1369.00	0.80	47.90	1368.94	6.88	-5.06	0.46	-6.78	158827.88	1984216.94	
1461.00	0.80	68.10	1460.93	7.55	-3.98	0.30	-7.47	158828.55	1984218.02	
1554.00	0.60	85.20	1553.93	7.83	-2.90	0.31	-7.77	158828.83	1984219.10	
1646.00	0.60	60.20	1645.92	8.11	-2.00	0.28	-8.07	158829.11	1984220.00	
1738.00	0.30	354.80	1737.92	8.59	-1.60	0.60	-8.56	158829.59	1984220.40	
1832.00	0.70	261.10	1831.92	8.74	-2.19	0.83	-8.70	158829.74	1984219.81	
1926.00	0.50	208.20	1925.91	8.29	-2.95	0.60	-8.24	158829.29	1984219.05	
2020.00	0.10	2.00	2019.91	8.01	-3.14	0.63	-7.95	158829.01	1984218.86	
2115.00	0.30	265.70	2114.91	8.08	-3.39	0.34	-8.01	158829.08	1984218.61	
2207.00	0.40	179.00	2206.91	7.74	-3.62	0.53	-7.67	158828.74	1984218.38	
2301.00	0.40	227.90	2300.91	7.19	-3.86	0.35	-7.12	158828.19	1984218.14	
2396.00	0.40	177.60	2395.91	6.64	-4.09	0.36	-6.56	158827.64	1984217.91	
2490.00	0.10	94.70	2489.91	6.30	-4.00	0.43	-6.23	158827.30	1984218.00	
2584.00	0.10	40.70	2583.91	6.36	-3.86	0.10	-6.29	158827.36	1984218.14	
2678.00	0.30	271.10	2677.90	6.43	-4.06	0.40	-6.35	158827.43	1984217.94	
2772.00	0.30	215.80	2771.90	6.23	-4.45	0.30	-6.15	158827.23	1984217.55	
2865.00	0.30	45.80	2864.90	6.20	-4.41	0.64	-6.12	158827.20	1984217.59	
2959.00	0.20	96.80	2958.90	6.35	-4.07	0.25	-6.28	158827.35	1984217.93	
3053.00	0.30	284.70	3052.90	6.40	-4.15	0.53	-6.32	158827.40	1984217.85	
3148.00	0.30	44.20	3147.90	6.64	-4.22	0.55	-6.56	158827.64	1984217.78	
3243.00	0.10	198.20	3242.90	6.74	-4.07	0.41	-6.66	158827.74	1984217.93	

Calmena Energy Services

Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
 Surveys
 Page 2
 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/W (feet)	DLS (deg/100')	VS @ 181.05° (feet)	Az Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
3337.00	0.10	165.00	3336.90	6.58	-4.07	0.06	-6.51	158827.58	1984217.93	
3431.00	0.30	270.30	3430.90	6.50	-4.30	0.36	-6.42	158827.50	1984217.70	
3524.00	0.20	270.40	3523.90	6.51	-4.70	0.11	-6.42	158827.51	1984217.30	
3617.00	0.40	277.50	3616.90	6.55	-5.19	0.22	-6.45	158827.55	1984216.81	
3711.00	0.60	319.00	3710.90	6.96	-5.84	0.43	-6.86	158827.96	1984216.16	
3805.00	0.20	8.50	3804.89	7.50	-6.13	0.53	-7.38	158828.50	1984215.87	
3899.00	0.40	272.90	3898.89	7.68	-6.44	0.49	-7.56	158828.68	1984215.56	
3962.00	0.10	333.50	3961.89	7.74	-6.68	0.57	-7.61	158828.74	1984215.32	
3998.00	0.50	198.70	3997.89	7.62	-6.75	1.60	-7.49	158828.62	1984215.25	
4029.00	1.80	182.50	4028.88	7.00	-6.81	4.28	-6.88	158828.00	1984215.19	
4061.00	3.50	180.10	4060.85	5.52	-6.83	5.32	-5.40	158826.52	1984215.17	
4092.00	6.00	179.60	4091.74	2.96	-6.83	8.07	-2.83	158823.96	1984215.17	
4123.00	9.80	181.30	4122.44	-1.30	-6.87	12.28	1.43	158819.70	1984215.13	
4155.00	13.00	182.20	4153.80	-7.62	-7.07	10.02	7.75	158813.38	1984214.93	
4186.00	16.10	182.50	4183.81	-15.40	-7.40	10.00	15.54	158805.60	1984214.60	
4218.00	19.60	182.50	4214.26	-25.20	-7.82	10.94	25.34	158795.80	1984214.18	
4250.00	23.00	182.70	4244.07	-36.81	-8.35	10.63	36.96	158784.19	1984213.65	
4281.00	26.10	181.50	4272.27	-49.68	-8.82	10.13	49.84	158771.32	1984213.18	
4312.00	29.20	180.80	4299.72	-64.06	-9.10	10.05	64.22	158756.94	1984212.90	
4344.00	32.30	179.90	4327.22	-80.42	-9.19	9.79	80.58	158740.58	1984212.81	
4375.00	35.50	179.40	4352.95	-97.71	-9.09	10.36	97.86	158723.29	1984212.91	
4406.00	38.90	179.20	4377.64	-116.45	-8.85	10.97	116.59	158704.55	1984213.15	
4437.00	42.70	179.40	4401.10	-136.70	-8.61	12.27	136.83	158684.30	1984213.39	
4469.00	45.80	179.40	4424.02	-159.02	-8.38	9.69	159.15	158661.98	1984213.62	
4532.00	51.20	180.30	4465.75	-206.19	-8.27	8.64	206.31	158614.81	1984213.73	
4563.00	54.40	180.60	4484.49	-230.88	-8.46	10.35	231.00	158590.12	1984213.54	
4595.00	58.30	180.80	4502.22	-257.51	-8.79	12.20	257.63	158563.49	1984213.21	
4626.00	62.40	180.10	4517.55	-284.44	-9.00	13.37	284.56	158536.56	1984213.00	
4657.00	66.10	179.70	4531.01	-312.36	-8.95	11.99	312.47	158508.64	1984213.05	
4689.00	69.10	179.90	4543.21	-341.94	-8.84	9.39	342.05	158479.06	1984213.16	

Calmena Energy Services

Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
 Surveys
 Page 3
 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/W (feet)	DLS (deg/100')	VS @ 181.05° (feet)	Az Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
4720.00	70.30	180.10	4553.96	-371.02	-8.84	3.92	371.12	158449.98	1984213.16	
4751.00	71.00	180.10	4564.23	-400.27	-8.90	2.26	400.36	158420.73	1984213.10	
4782.00	71.80	180.10	4574.12	-429.65	-8.95	2.58	429.74	158391.35	1984213.05	
4814.00	72.20	180.30	4584.01	-460.08	-9.05	1.38	460.17	158360.92	1984212.95	
4845.00	72.30	180.40	4593.46	-489.60	-9.23	0.45	489.69	158331.40	1984212.77	
4876.00	72.40	180.10	4602.86	-519.14	-9.36	0.98	519.23	158301.86	1984212.64	
4908.00	72.90	179.90	4612.40	-549.69	-9.36	1.67	549.77	158271.31	1984212.64	
4939.00	73.50	179.60	4621.36	-579.36	-9.23	2.15	579.44	158241.64	1984212.77	
4971.00	75.30	180.30	4629.97	-610.18	-9.21	6.01	610.25	158210.82	1984212.79	
5002.00	77.00	181.00	4637.39	-640.28	-9.55	5.91	640.35	158180.72	1984212.45	
5033.00	78.90	181.30	4643.86	-670.59	-10.16	6.20	670.66	158150.41	1984211.84	
5064.00	81.40	181.70	4649.16	-701.12	-10.96	8.16	701.20	158119.88	1984211.04	
5096.00	83.60	181.70	4653.34	-732.83	-11.90	6.87	732.92	158088.17	1984210.10	
5127.00	85.80	181.50	4656.20	-763.68	-12.76	7.13	763.79	158057.32	1984209.24	
5195.00	92.40	180.40	4657.27	-831.63	-13.89	9.84	831.74	157989.37	1984208.11	
5226.00	91.30	181.00	4656.27	-862.61	-14.26	4.04	862.72	157958.39	1984207.74	
5257.00	89.30	180.60	4656.11	-893.60	-14.70	6.58	893.72	157927.40	1984207.30	
5289.00	88.90	180.60	4656.61	-925.60	-15.03	1.25	925.72	157895.40	1984206.97	
5320.00	88.70	180.40	4657.26	-956.59	-15.30	0.91	956.71	157864.41	1984206.70	
5352.00	89.10	180.80	4657.87	-988.58	-15.64	1.77	988.70	157832.42	1984206.36	
5383.00	90.00	180.30	4658.12	-1019.58	-15.94	3.32	1019.70	157801.42	1984206.06	
5414.00	90.20	180.80	4658.06	-1050.58	-16.23	1.74	1050.70	157770.42	1984205.77	
5444.00	90.20	180.80	4657.96	-1080.57	-16.65	0.00	1080.70	157740.43	1984205.35	
5475.00	89.90	180.80	4657.93	-1111.57	-17.08	0.97	1111.70	157709.43	1984204.92	
5506.00	90.00	180.60	4657.96	-1142.57	-17.46	0.72	1142.70	157678.43	1984204.54	
5538.00	90.30	180.60	4657.87	-1174.57	-17.80	0.94	1174.69	157646.43	1984204.20	
5602.00	90.50	181.00	4657.43	-1238.56	-18.69	0.70	1238.69	157582.44	1984203.31	
5664.00	91.10	180.80	4656.56	-1300.54	-19.67	1.02	1300.69	157520.46	1984202.33	
5727.00	90.00	180.60	4655.96	-1363.53	-20.44	1.77	1363.68	157457.47	1984201.56	
5790.00	90.00	180.80	4655.96	-1426.53	-21.21	0.32	1426.68	157394.47	1984200.79	

Calmena Energy Services

Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
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 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 181.05° Az (feet)	Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
5852.00	88.30	181.00	4656.88	-1488.51	-22.18	2.76	1488.67	157332.49	1984199.82	
5915.00	89.90	180.80	4657.87	-1551.50	-23.17	2.56	1551.66	157269.50	1984198.83	
5977.00	90.20	180.60	4657.81	-1613.49	-23.93	0.58	1613.66	157207.51	1984198.07	
6039.00	91.00	179.90	4657.16	-1675.49	-24.20	1.71	1675.65	157145.51	1984197.80	
6100.00	89.60	180.80	4656.84	-1736.48	-24.57	2.73	1736.64	157084.52	1984197.43	
6164.00	90.80	182.50	4656.62	-1800.45	-26.41	3.25	1800.63	157020.55	1984195.59	
6227.00	91.10	182.70	4655.57	-1863.38	-29.27	0.57	1863.60	156957.62	1984192.73	
6289.00	89.40	181.80	4655.30	-1925.33	-31.70	3.10	1925.58	156895.67	1984190.30	
6352.00	89.70	182.00	4655.80	-1988.29	-33.79	0.57	1988.58	156832.71	1984188.21	
6413.00	88.90	180.10	4656.54	-2049.27	-34.91	3.38	2049.57	156771.73	1984187.09	
6476.00	91.00	180.80	4656.60	-2112.27	-35.40	3.51	2112.56	156708.73	1984186.60	
6538.00	90.80	181.50	4655.63	-2174.25	-36.65	1.17	2174.55	156646.75	1984185.35	
6600.00	87.30	181.50	4656.65	-2236.21	-38.27	5.65	2236.53	156584.79	1984183.73	
6663.00	88.70	182.00	4658.85	-2299.14	-40.19	2.36	2299.49	156521.86	1984181.81	
6723.00	88.30	181.70	4660.42	-2359.08	-42.13	0.83	2359.46	156461.92	1984179.87	
6785.00	87.90	181.70	4662.48	-2421.02	-43.97	0.65	2421.42	156399.98	1984178.03	
6816.00	89.20	181.50	4663.26	-2452.00	-44.83	4.24	2452.41	156369.00	1984177.17	
6847.00	92.10	181.50	4662.91	-2482.98	-45.64	9.35	2483.40	156338.02	1984176.36	
6877.00	94.30	182.00	4661.24	-2512.92	-46.56	7.52	2513.35	156308.08	1984175.44	
6908.00	94.30	182.20	4658.91	-2543.81	-47.69	0.64	2544.26	156277.19	1984174.31	
6938.00	93.20	181.30	4656.95	-2573.73	-48.61	4.73	2574.19	156247.27	1984173.39	
6969.00	91.80	181.30	4655.60	-2604.70	-49.31	4.52	2605.16	156216.30	1984172.69	
7001.00	90.60	181.00	4654.93	-2636.68	-49.95	3.87	2637.15	156184.32	1984172.05	
7032.00	88.80	180.80	4655.09	-2667.68	-50.44	5.84	2668.15	156153.32	1984171.56	
7064.00	88.80	181.00	4655.76	-2699.67	-50.94	0.62	2700.15	156121.33	1984171.06	
7095.00	88.80	180.30	4656.41	-2730.66	-51.29	2.26	2731.14	156090.34	1984170.71	
7126.00	89.10	180.80	4656.98	-2761.65	-51.59	1.88	2762.13	156059.35	1984170.41	
7157.00	88.80	180.30	4657.55	-2792.64	-51.89	1.88	2793.13	156028.36	1984170.11	
7187.00	88.90	179.90	4658.15	-2822.64	-51.94	1.37	2823.11	155998.36	1984170.06	
7218.00	90.20	179.90	4658.39	-2853.64	-51.89	4.19	2854.11	155967.36	1984170.11	

Calmena Energy Services

Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
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 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/W (feet)	DLS (deg/100')	VS @ 181.05° (feet)	Az Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
7249.00	91.00	180.60	4658.07	-2884.63	-52.02	3.43	2885.10	155936.37	1984169.98	
7280.00	90.90	180.40	4657.55	-2915.63	-52.29	0.72	2916.10	155905.37	1984169.71	
7310.00	90.20	179.60	4657.26	-2945.63	-52.29	3.54	2946.09	155875.37	1984169.71	
7341.00	90.00	179.70	4657.21	-2976.62	-52.10	0.72	2977.08	155844.38	1984169.90	
7373.00	90.30	179.60	4657.13	-3008.62	-51.91	0.99	3009.07	155812.38	1984170.09	
7402.00	91.00	180.10	4656.80	-3037.62	-51.83	2.97	3038.06	155783.38	1984170.17	
7434.00	90.90	179.60	4656.27	-3069.62	-51.75	1.59	3070.05	155751.38	1984170.25	
7465.00	91.40	179.90	4655.64	-3100.61	-51.61	1.88	3101.04	155720.39	1984170.39	
7497.00	91.70	180.10	4654.78	-3132.60	-51.61	1.13	3133.02	155688.40	1984170.39	
7528.00	91.80	179.90	4653.83	-3163.58	-51.61	0.72	3164.00	155657.42	1984170.39	
7560.00	91.60	180.60	4652.88	-3195.57	-51.75	2.27	3195.98	155625.43	1984170.25	
7591.00	92.20	181.10	4651.86	-3226.55	-52.21	2.52	3226.96	155594.45	1984169.79	
7622.00	90.70	181.10	4651.07	-3257.53	-52.81	4.84	3257.95	155563.47	1984169.19	
7653.00	88.70	180.80	4651.23	-3288.53	-53.32	6.52	3288.95	155532.47	1984168.68	
7684.00	88.50	180.80	4651.99	-3319.51	-53.75	0.65	3319.94	155501.49	1984168.25	
7715.00	89.20	180.10	4652.61	-3350.51	-54.00	3.19	3350.93	155470.49	1984168.00	
7746.00	89.80	180.40	4652.88	-3381.50	-54.13	2.16	3381.93	155439.50	1984167.87	
7778.00	89.70	180.10	4653.02	-3413.50	-54.27	0.99	3413.93	155407.50	1984167.73	
7809.00	90.40	180.40	4653.00	-3444.50	-54.41	2.46	3444.92	155376.50	1984167.59	
7841.00	90.80	180.30	4652.66	-3476.50	-54.60	1.29	3476.92	155344.50	1984167.40	
7873.00	91.20	180.80	4652.10	-3508.49	-54.91	2.00	3508.91	155312.51	1984167.09	
7904.00	90.80	181.50	4651.56	-3539.48	-55.53	2.60	3539.91	155281.52	1984166.47	
7936.00	90.00	181.50	4651.34	-3571.47	-56.37	2.50	3571.90	155249.53	1984165.63	
7968.00	89.80	181.50	4651.39	-3603.46	-57.21	0.62	3603.90	155217.54	1984164.79	
7997.00	90.00	181.00	4651.44	-3632.45	-57.84	1.86	3632.90	155188.55	1984164.16	
8028.00	90.40	180.80	4651.34	-3663.45	-58.32	1.44	3663.90	155157.55	1984163.68	
8060.00	89.40	180.60	4651.39	-3695.45	-58.72	3.19	3695.90	155125.55	1984163.28	
8091.00	89.00	180.80	4651.82	-3726.44	-59.09	1.44	3726.90	155094.56	1984162.91	
8124.00	89.10	180.80	4652.37	-3759.43	-59.56	0.30	3759.89	155061.57	1984162.44	
8155.00	89.40	180.60	4652.78	-3790.43	-59.93	1.16	3790.89	155030.57	1984162.07	

Calmena Energy Services

Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
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 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N-S (feet)	E-W (feet)	DLS (deg/100')	VS @ 181.05° (feet)	Az Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
8187.00	88.60	180.20	4653.34	-3822.42	-60.16	2.79	3822.88	154998.58	1984161.84	
8218.00	87.90	181.50	4654.28	-3853.40	-60.62	4.76	3853.87	154967.60	1984161.38	
8250.00	87.90	181.50	4655.46	-3885.37	-61.45	0.00	3885.84	154935.63	1984160.55	
8281.00	88.60	182.20	4656.40	-3916.34	-62.45	3.19	3916.83	154904.66	1984159.55	
8312.00	88.40	181.60	4657.21	-3947.31	-63.48	2.04	3947.81	154873.69	1984158.52	
8344.00	88.00	182.00	4658.22	-3979.28	-64.49	1.77	3979.79	154841.72	1984157.51	
8375.00	88.20	182.70	4659.25	-4010.24	-65.76	2.35	4010.77	154810.76	1984156.24	
8407.00	88.80	183.20	4660.08	-4042.18	-67.40	2.44	4042.74	154778.82	1984154.60	
8438.00	89.90	182.50	4660.44	-4073.14	-68.94	4.21	4073.72	154747.86	1984153.06	
8469.00	91.10	183.00	4660.17	-4104.11	-70.43	4.19	4104.71	154716.89	1984151.57	
8500.00	91.50	182.20	4659.46	-4135.06	-71.84	2.88	4135.69	154685.94	1984150.16	
8531.00	90.70	181.50	4658.87	-4166.04	-72.84	3.43	4166.68	154654.96	1984149.16	
8563.00	88.80	182.00	4659.01	-4198.03	-73.82	6.14	4198.67	154622.97	1984148.18	
8594.00	88.50	181.60	4659.74	-4229.00	-74.79	1.61	4229.66	154592.00	1984147.21	
8626.00	88.70	181.30	4660.52	-4260.98	-75.60	1.13	4261.65	154560.02	1984146.40	
8657.00	89.20	181.50	4661.09	-4291.97	-76.36	1.74	4292.65	154529.03	1984145.64	
8689.00	89.30	182.50	4661.51	-4323.94	-77.47	3.14	4324.64	154497.06	1984144.53	
8720.00	88.90	182.20	4661.99	-4354.91	-78.74	1.61	4355.63	154466.09	1984143.26	
8751.00	88.60	182.50	4662.67	-4385.88	-80.01	1.37	4386.61	154435.12	1984141.99	
8783.00	89.50	182.70	4663.20	-4417.84	-81.47	2.88	4418.59	154403.16	1984140.53	
8814.00	89.40	182.30	4663.50	-4448.81	-82.82	1.33	4449.58	154372.19	1984139.18	
8845.00	89.60	182.50	4663.77	-4479.78	-84.12	0.91	4480.57	154341.22	1984137.88	
8877.00	89.60	183.40	4663.99	-4511.74	-85.76	2.81	4512.55	154309.26	1984136.24	
8908.00	89.90	182.20	4664.13	-4542.70	-87.28	3.99	4543.54	154278.30	1984134.72	
8940.00	90.40	182.20	4664.04	-4574.68	-88.50	1.56	4575.53	154246.32	1984133.50	
8971.00	90.50	182.50	4663.80	-4605.65	-89.78	1.02	4606.52	154215.35	1984132.22	
9002.00	90.70	182.90	4663.47	-4636.62	-91.24	1.44	4637.51	154184.38	1984130.76	
9034.00	90.10	183.60	4663.25	-4668.56	-93.05	2.88	4669.48	154152.44	1984128.95	
9066.00	89.40	183.10	4663.39	-4700.51	-94.92	2.69	4701.46	154120.49	1984127.08	
9098.00	88.70	182.00	4663.92	-4732.47	-96.34	4.07	4733.44	154088.53	1984125.66	

Calmena Energy Services

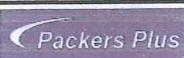
Company: Woolsey Operating Company
 Well: Michel 1H
 Location: Barber County, Kansas

Date: 9-Jul-2013
 Surveys
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 Job# : 7330

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/W (feet)	DLS (deg/100')	VS @ 181.05° (feet)	Az Grid Y	NAD27 Ks South gr elev=1432 RKB=1449 Grid X	Comments
9129.00	88.60	182.20	4664.65	-4763.44	-97.48	0.72	4764.43	154057.56	1984124.52	
9160.00	88.20	181.70	4665.52	-4794.41	-98.53	2.07	4795.41	154026.59	1984123.47	
9192.00	88.90	182.20	4666.33	-4826.38	-99.62	2.69	4827.40	153994.62	1984122.38	
9223.00	89.10	182.00	4666.87	-4857.36	-100.76	0.91	4858.39	153963.64	1984121.24	
9254.00	89.80	181.10	4667.17	-4888.34	-101.60	3.68	4889.38	153932.66	1984120.40	
9286.00	90.40	181.30	4667.11	-4920.34	-102.27	1.98	4921.38	153900.66	1984119.73	
9317.00	90.30	181.00	4666.92	-4951.33	-102.89	1.02	4952.38	153869.67	1984119.11	
9349.00	90.00	180.10	4666.84	-4983.33	-103.20	2.96	4984.38	153837.67	1984118.80	
9380.00	88.30	180.10	4667.30	-5014.32	-103.25	5.48	5015.37	153806.68	1984118.75	
9411.00	86.40	180.80	4668.73	-5045.29	-103.49	6.53	5046.34	153775.71	1984118.51	
9442.00	86.30	179.90	4670.70	-5076.22	-103.68	2.92	5077.27	153744.78	1984118.32	
9474.00	85.60	179.70	4672.96	-5108.14	-103.57	2.27	5109.18	153712.86	1984118.43	
9505.00	85.40	179.90	4675.40	-5139.05	-103.46	0.91	5140.08	153681.95	1984118.54	
9536.00	86.10	178.50	4677.69	-5169.96	-103.03	5.04	5170.98	153651.04	1984118.97	
9568.00	86.90	178.70	4679.65	-5201.89	-102.25	2.58	5202.89	153619.11	1984119.75	
9599.00	87.00	178.00	4681.30	-5232.83	-101.36	2.28	5233.81	153588.17	1984120.64	
9630.00	85.50	177.80	4683.32	-5263.74	-100.23	4.88	5264.70	153557.26	1984121.77	
9661.00	84.20	178.20	4686.11	-5294.60	-99.15	4.39	5295.53	153526.40	1984122.85	
9706.00	84.20	178.20	4690.65	-5339.35	-97.74	0.00	5340.24	153481.65	1984124.26	Survey projected

Packers Plus		Do It Once. Do It Right.		CONFIDENTIAL Not to be disclosed outside of Woolsey Petroleum		Completion Install		
Prepared for Mr. Carl W. Durr		Company Woolsey Petroleum		Date 15-Jul-13				
Well Name Michel 1H		Location Barber, KS		Type of Installation 20 Stage				
Depth (MD/TVD)	Schematic	Description		OD (in.)	ID (in.)	Length (in.)		
Page 1 of 3								
5040' 198bbbls		Packers Plus SF Liner Hanger Packer 43 PN: 108425-000001 (3 Pins @ 482 psi ea. = 1446 psi) 4-1/2" Pup Joint: 3' Long SN: SNU0018765		5.875" 4.500"	3.875" 4.000"	9.45'		
7" 23LB J-55 LTC set at 5167'								
5177'		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 3 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	124.46'		
		42 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: HA1004356		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.39'		
		4-1/2" 11.60# N-80 LTC LINER 2 JOINTS:		4.500" 4.500"	4.000" 4.000"	83.28'		
Stage 20 5269' 202bbbls		41 Packers Plus 4-1/2" Drillable FracPort w/ 3.688" seat for a 3.750" SF-7 Frac Ball PN: 121332-000314 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2003816		5.630" MILL OUT	3.688" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 2 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	83.29'		
5361'		40 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: HA1004350		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.42'		
		4-1/2" 11.60# N-80 LTC LINER 2 JOINTS:		4.500" 4.500"	4.000" 4.000"	80.54'		
Stage 19 5450' 205bbbls		39 Packers Plus 4-1/2" Drillable FracPort w/ 3.625" seat for a 3.688" SF-7 Frac Ball PN: 121332-000315 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2003798		5.630" MILL OUT	3.625" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 2 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	82.28'		
5541'		38 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: HA1004349		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.42'		
		4-1/2" 11.60# N-80 LTC LINER 3 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	127.70'		
Stage 18 5677' 208bbbls		37 Packers Plus 4-1/2" Drillable FracPort w/ 3.563" seat for a 3.625" SF-7 Frac Ball PN: 121332-000316 (6 Pins @ 315 PSI Ea. = 1890 PSI) SNU0018088 SN: SNU0018088		5.630" MILL OUT	3.563" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 2 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	80.97'		
5767'		36 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: HA1004344		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.38'		
		4-1/2" 11.60# N-80 LTC LINER 3 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	124.62'		
Stage 17 5900' 212bbbls		35 Packers Plus 4-1/2" Drillable FracPort w/ 3.500" seat for a 3.563" SF-7 Frac Ball PN: 121332-000317 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA1004511		5.630" MILL OUT	3.500" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 2 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	83.50'		
5992'		34 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: HA1004357		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.44'		
		4-1/2" 11.60# N-80 LTC LINER 3 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	126.09'		
Stage 16 6126' 215bbbls		33 Packers Plus 4-1/2" Drillable FracPort w/ 3.438" seat for a 3.500" SF-7 Frac Ball PN: 121332-000318 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2003969		5.630" MILL OUT	3.438" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 2 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	90.58'		
6226'		32 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: SNU0011968		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.42'		
		4-1/2" 11.60# N-80 LTC LINER 3 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	135.80'		
Stage 15 6370' 219bbbls		31 Packers Plus 4-1/2" Drillable FracPort w/ 3.375" seat for a 3.438" SF-7 Frac Ball PN: 121332-000319 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: SNU0019200		5.630" MILL OUT	3.375" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 2 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	90.60'		
6469'		30 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long SN: HA1004351		5.750" 4.500" 4.500"	3.875" 4.000" 4.000"	14.43'		
		4-1/2" 11.60# N-80 LTC LINER 3 JOINTS:		4.500" 4.500" 4.500"	4.000" 4.000" 4.000"	135.84'		
Stage 14 6613' 223bbbls		29 Packers Plus 4-1/2" Drillable FracPort w/ 3.313" seat for a 3.375" SF-7 Frac Ball PN: 121332-000158 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: SNU0014536		5.630" MILL OUT	3.313" TBD	2.65'		
		4-1/2" 11.60# N-80 LTC LINER 2 JOINTS:		4.500" 4.500"	4.000" 4.000"	86.71'		
Service Center Conway AR		Telephone 501-327-0241		Service Contact Gary Leber		Sales Contact D.J. Snyder (713) 588-8857		

DEC - 5 2013



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Do It Right.

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Woolsey Petroleum

Completion Install

Prepared for		Company	Date		
Mr. Carl W. Durr		Woolsey Petroleum	15-Jul-13		
Well Name		Location	Type of Isolation		
Michel 1H		Barber, KS	20 Stage		
Depth (MD/TVD)	Schematic	Description	OD (in.)	ID (in.)	Length (in.)
Page 2 of 3					
6709'		4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 28 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1004337 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 5.750"	4.000" 3.875"	14.40'
Stage 13 6855' 227bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 27 Packers Plus 4-1/2" Drillable FracPort w/ 3.250" seat for a 3.313" SF-7 Frac Ball PN: 121332-000321 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA1004484 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	5.630" 4.500" 4.500"	3.250" TBD	2.65'
6952'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 26 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: SNU0018776 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.188"	14.39'
Stage 12 7096' 230bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 25 Packers Plus 4-1/2" Drillable FracPort w/ 3.188" seat for a 3.250" SF-7 Frac Ball PN: 121332-000322 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: SNU0018718 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.188"	2.65'
7188'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 24 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1003854 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.125"	14.40'
Stage 11 7325' 234bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 23 Packers Plus 4-1/2" Drillable FracPort w/ 3.125" seat for a 3.188" SF-7 Frac Ball PN: 121332-000323 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2003735 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.125"	126.59'
7417'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 22 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1004355 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.125"	14.41'
Stage 10 7846' 237bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 21 Packers Plus 4-1/2" Drillable FracPort w/ 3.063" seat for a 3.125" SF-7 Frac Ball PN: 121332-000324 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2003771 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.063"	2.65'
7839'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 20 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1004325 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.063"	84.79'
Stage 9 7777' 241bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 19 Packers Plus 4-1/2" Drillable FracPort w/ 3.000" seat for a 3.063" SF-7 Frac Ball PN: 121332-000325 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA1004091 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.000"	14.38'
7868'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 18 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1004352 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.063"	129.00'
Stage 8 8005' 244bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 17 Packers Plus 4-1/2" Drillable FracPort w/ 2.938" seat for a 3.000" SF-7 Frac Ball PN: 121332-000326 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2003993 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 2.938"	2.65'
8097'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 16 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1003852 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 2.975"	82.83'
Stage 7 8240' 248bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 15 Packers Plus 4-1/2" Drillable FracPort w/ 2.876" seat for a 2.938" SF-7 Frac Ball PN: 121332-000327 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA1004161 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 2.876"	2.65'
8324'		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 14 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1003873 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER JOINTS:3	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 2.813"	85.04'
Stage 6 8461' 251bbls		4-1/2" 11.60# N-80 LTC LINER JOINTS:2 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 13 Packers Plus 4-1/2" Drillable FracPort w/ 2.813" seat for a 2.876" SF-7 Frac Ball PN: 121332-000328 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: SNU0018491 4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 2.813"	128.83'
		4-1/2" 11.60# N-80 LTC LINER JOINTS:2	4.500"	4.000"	85.86'
Service Center Conway AR		Telephone 501-327-0241	Service Contact Gary Leber		Sales Contact D.J. Snyder (713) 598-8657

Packers Plus		Do It Once Do It Right		CONFIDENTIAL Not to be disclosed outside of Woolsey Petroleum		Completion Install		
Prepared for Mr. Carl W. Durr		Company Woolsey Petroleum			Date 15-Jul-13			
Well Name Michel 1H		Location Barber, KS			Type of Installation 20 Stage			
Depth (MD/TVD)	Schematic	Description			OD (in.)	ID (in.)	Length (in.)	
Page 3 of 3								
8555'		4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"		
		12 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: HA1004345			4.500"	4.000"		
		4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"	14.38'	
		4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"		
		4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	122.72'	
Stage 5 8698' 255bbbls		11 Packers Plus 4-1/2" Drillable FracPort w/ 2.750" seat for a 2.613" SF-7 Frac Ball PN: 121332-000329 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA1004133			5.630"	2.750"	2.65'	
		4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	84.79'	
		4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"		
		10 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: SNU0018768			5.750"	3.875"	14.38'	
		4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"		
		4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	127.76'	
Stage 4 8916' 259bbbls		9 Packers Plus 4-1/2" Drillable FracPort w/ 2.688" seat for a 2.750" SF-7 Frac Ball PN: 121332-000330 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA1004469			5.630"	2.688"	2.65'	
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	81.79'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"			
	8 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: SNU0018769			5.750"	3.875"	14.41'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"			
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	126.48'		
Stage 3 9141' 262bbbls	7 Packers Plus 4-1/2" Drillable FracPort w/ 2.625" seat for a 2.688" SF-7 Frac Ball PN: 121332-000331 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: HA2004038			5.630"	2.625"	2.65'		
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	83.67'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"			
	6 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: SNU0010449			5.750"	3.875"	14.41'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"			
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	85.93'		
Stage 2 9328' 265bbbls	6 Packers Plus 4-1/2" Drillable FracPort w/ 2.663" seat for a 2.625" SF-7 Frac Ball PN: 121332-000332 (6 Pins @ 315 PSI Ea. = 1890 PSI) SN: SNU0018727			5.630"	2.563"	2.65'		
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	83.97'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"			
	4 Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI) SN: SNU0010338			5.750"	3.875"	14.43'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"			
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	81.29'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"			
	3 Packers Plus 7.00" x 4-1/2" RockSeal IIS 10K Hydraulic-Set Open Hole Anchor Packer PN: 124306-000023 (6 Pins @ 324 PSI Ea. = 1944 PSI) SN: SNU0018656			5.810"	3.875"	16.36'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"			
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	81.37'		
Stage 1 9614' 269bbbls	2 Packers Plus 4-1/2" Dual External Hydraulic FracPort PN: 121288-000001 (UPPER: 11 Pins @ 391 Ea. = 4301 PSI) / (LOWER: 7 Pins @ 630 PSI = 4410 PSI)			5.630"	3.875"	13.51'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long			4.500"	4.000"			
	4-1/2" 11.60# N-80 LTC LTR LNER			4.500"	4.000"	40.61'		
	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			4.500"	4.000"			
	1 Packers Plus 4-1/2" Toe Circulating Sub w/ 1.000" seat for 1.250" Phenolic Ball PN: 103039-000011 (3 Pins @ 366 PSI = 1098 Shear) SN: SNU0018605			5.500"	1.000"	18.46'		
	4-1/2" Float Collar PN: 104733-000001			4.500"	4.000"			
	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long			5.000"	3.890"	1.47'		
	4-1/2" Float Collar PN: 104733-000001			4.500"	4.000"			
	4-1/2" Guide Shoe PN: 121704-000001			5.500"	2.250"	0.92'		
TMD = 9,706'								
Service Center Conway AR	Telephone 501-327-0241	Service Contact Gary Leber			Sales Contact D.J. Snyder (713) 598-8657			

Operator:	Woolsey Operating	Base Point:	20600 Conway
Company Rep:	Mike Tharp	Packers Plus Rep:	Gary Goodman
Well Name:	Michel 1H	Date Started:	7/6/2013
Ticket Number:	SOU007370	Date Completed:	7/15/2013
County/State:	Barber Co, KS	Type of Job:	StackFrac HD
Field	Rhodes South	Formation	Mississippi Lime
Rig Name	Dan-D Rig 11	Well API #	15-007-24022-01-00

DETAIL THE JOB - THIS FORM USED TO REPORT WHAT ACTUALLY TOOK PLACE - FILL OUT COMPLETELY

General Well Information				Stages		
Well Profile	Open Hole Horizontal			Number of Stages	20	
Depth TVD	4,690	Feet		MD to Packer 1	182.04	
Depth MD	9,706	Feet		Packer 1 to Packer 2	181.75	
Lateral Length	4,539	Feet		Packer 2 to Packer 3	221.98	
KOP	4,010	Feet		Packer 3 to Packer 4	221.38	
Hole Size	6.125	Inch		Packer 4 to Packer 5	219.31	
BHP	2,033	PSI		Packer 5 to Packer 6	226.51	
BHT	90	°F		Packer 6 to Packer 7	221.23	
Reamer run?	Yes	Size	6	Packer 7 to Packer 8	223.57	
Build Rate	10/100		1/100 F	Packer 8 to Packer 9	223.62	
Max Dog Leg	9.35		1/100 F	Packer 9 to Packer 10	217.67	
Angle of Perma Plus	70		°	Packer 10 to Packer 11	223.2	
Planned Depth Bullet Guide	9,681	Feet		Packer 11 to Packer 12	230.86	
Actual Depth Bullet Guide	9,681	Feet		Packer 12 to Packer 13	238.11	
Distance Off	0	Feet				
				Average Stage Length	220	Feet

WORK STRING INFORMATION

Casing	Weight	Thread	ID	Capacity	Grade	Shoe		
7	23	LTC	6.655	0.03937	J55	5167		
				0				
Drill Pipe	Weight	Thread	ID	Capacity	Grade	Length	Torque	
4	14	IF	3.34	0.010836992	G105	7,348	10K	
Heavy Weight	Weight	Thread	ID	Capacity	Grade	Length	Torque	
4	27.2	IF	3 1/3	0.01064319	G105	1655.83	10K	
Drill Collar	Weight	Thread	ID	Capacity	Grade	Length	Torque	
4.5	45.3	IF	2.52	0.00492	G105	608.5	10K	
Liner	Weight	Thread	ID	Capacity	Grade	Length	Torque	
4.5"	11.6	LTC	4	0.0155	N-80	4,640	2,280	
Well Data							Open Hole	
MD	TVD	KOP	Shoe	Lateral	Size	Capacity		
9706		4010	9681	4539	6.125	0.036444	bbl/ft	

FLUIDS

Mud Weight	Mud Type	Fill Fluid	Fill Weight	CM (if yes-amount-ppg)	Viscosity		
8.5	WATER BASE	WATER	8.34	0	32		
Fluid Level in Annulus Start	FULL	PUMP TYPE	SPM	BPS	Rig Type	Kelly	Weight
Fluid Level in Annulus Change	full	DH-7000	75	0.079	Kelly	DOUBLE	10K

AS RUN IN HOLE WEIGHTS

Liner	Collars	H.W.D.P.	D.P.		
Air	Air	Air	Air	Mud	Mud
53,892	27,565	23,982	45,038	39,184	38,598
Calculated Neutral Weight including Blocks:		Weight When Released From PermaPlus:		110,000	
		Pipe Stretch in Inches Before Releasing:		27"	
Setting Tool Part Number	PN108720-000001	FracPORT Part Number	PN121332-000314		
Elastomer / Metallurgy / Pinned to		Elastomer / Metallurgy / Pinned to			
Packer Part Number	PN124929-000004	Other Part Number			
Elastomer / Metallurgy / Pinned to	HSN	Elastomer / Metallurgy / Pinned to			
FTR		Problem on Job			

Notes:

PACKERS PLUS - PACKER PLACEMENT

Item	Description	Length	Landed @		
			Actual MD	Accumulated	Proposed
			9681.00		
		0.92	9680.08	0.92	
		1.34	9678.74	2.26	
		6.07	9672.67	8.33	
		1.34	9671.33	9.67	
	TOE SUB	2.72	9668.61	12.39	
		6.07	9662.54	18.46	
1		40.61	9621.93	59.07	
		3.09	9618.84	62.16	
	DHY	4.33	9614.51	66.49	1 st 190'
		6.09	9608.42	72.58	
2		40.69	9567.73	113.27	
3		40.68	9527.05	153.95	
		3.09	9523.96	157.04	
	RSIIS	7.19	9516.77	164.23	
		6.08	9510.69	170.31	
4		40.62	9470.07	210.93	Dead
5		40.67	9429.40	251.60	96'
		3.09	9426.31	254.69	
	RSII	5.23	9421.08	259.92	
		6.11	9414.97	266.03	
6		43.41	9371.56	309.44	
7		40.56	9331.00	350.00	
	2.563 FRAC PORT	2.65	9328.35	352.65	2 nd 187'
8		43.00	9285.35	395.65	
9		42.93	9242.42	438.58	
		3.09	9239.33	441.67	
	RSII	5.23	9234.10	446.90	
		6.09	9228.01	452.99	
10		42.98	9185.03	495.97	
11		40.69	9144.34	536.66	
	2.625 FRAC PORT	2.65	9141.69	539.31	3 rd 228'
12		42.97	9098.72	582.28	
13		42.91	9055.81	625.19	
14		40.60	9015.21	665.79	
		3.09	9012.12	668.88	
	RSII	5.23	9006.89	674.11	
		6.09	9000.80	680.20	
15		41.06	8959.74	721.26	
16		40.73	8919.01	761.99	
	2.688 FRAC PORT	2.65	8916.36	764.64	4 th 226'
17		43.90	8872.46	808.54	
18		42.86	8829.60	851.40	
19		41.00	8788.60	892.40	
		3.09	8785.51	895.49	

PACKERS PLUS - PACKER PLACEMENT

	RSII	5.23	8780.28	900.72	
		6.06	8774.22	906.78	
20		42.89	8731.33	949.67	
21		41.90	8689.43	991.57	
	2.750 FRAC PORT	2.65	8686.78	994.22	5 th 225'
22		41.77	8645.01	1035.99	
23		42.87	8602.14	1078.86	
24		38.08	8564.06	1116.94	
		3.09	8560.97	1120.03	
	RSII	5.23	8555.74	1125.26	
		6.07	8549.67	1131.33	
25		42.88	8506.79	1174.21	
26		42.98	8463.81	1217.19	
	2.813 FRAC PORT	2.65	8461.16	1219.84	6 th 231'
27		42.90	8418.26	1262.74	
28		43.04	8375.22	1305.78	
29		42.89	8332.33	1348.67	
		3.10	8329.23	1351.77	
	RSII	5.23	8324.00	1357.00	
		6.11	8317.89	1363.11	
30		42.07	8275.82	1405.18	
31		42.97	8232.85	1448.15	
	2.875 FRAC PORT	2.65	8230.20	1450.80	7 th 227'
32		43.33	8186.87	1494.13	
33		40.71	8146.16	1534.84	
34		40.30	8105.86	1575.14	
		3.09	8102.77	1578.23	
	RSII	5.22	8097.55	1583.45	
		6.07	8091.48	1589.52	
35		40.59	8050.89	1630.11	
36		43.03	8007.86	1673.14	
	2.938 FRAC PORT	2.65	8005.21	1675.79	8 th 229'
37		42.32	7962.89	1718.11	
38		42.93	7919.96	1761.04	
39		42.90	7877.06	1803.94	
		3.08	7873.98	1807.02	
	RSII	5.23	7868.75	1812.25	
		6.07	7862.68	1818.32	
40		43.07	7819.61	1861.39	
41		39.76	7779.85	1901.15	
	3.00 FRAC PORT	2.65	7777.20	1903.80	9 th 229'
42		43.06	7734.14	1946.86	
43		42.94	7691.20	1989.80	
44		43.00	7648.20	2032.80	
		3.07	7645.13	2035.87	
	RSII	5.23	7639.90	2041.10	
		6.08	7633.82	2047.18	
45		42.17	7591.65	2089.35	

PACKERS PLUS - PACKER PLACEMENT

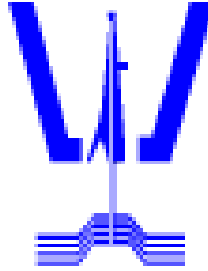
46		42.68	7548.97	2132.03	
	3.063 FRAC PORT	2.65	7546.32	2134.68	10 th 222'
47		43.00	7503.32	2177.68	
48		38.70	7464.62	2216.38	
49		39.30	7425.32	2255.68	
		3.09	7422.23	2258.77	
	RSII	5.23	7417.00	2264.00	
		6.09	7410.91	2270.09	
50		42.93	7367.98	2313.02	
51		41.86	7326.12	2354.88	
	3.125 FRAC PORT	2.65	7323.47	2357.53	11 th 229'
52		42.85	7280.62	2400.38	
53		43.00	7237.62	2443.38	
54		40.74	7196.88	2484.12	
		3.08	7193.80	2487.20	
	RSII	5.23	7188.57	2492.43	
		6.09	7182.48	2498.52	
55		41.13	7141.35	2539.65	
56		42.19	7099.16	2581.84	
	3.188 FRAC PORT	2.65	7096.51	2584.49	12 th 236'
57		45.25	7051.26	2629.74	
58		45.25	7006.01	2674.99	
59		45.22	6960.79	2720.21	
		3.08	6957.71	2723.29	
	RSII	5.23	6952.48	2728.52	
		6.08	6946.40	2734.60	
60		45.25	6901.15	2779.85	
61		45.30	6855.85	2825.15	
	3.250 FRAC PORT	2.65	6853.20	2827.80	13 th 243'
62		45.22	6807.98	2873.02	
63		45.24	6762.74	2918.26	
64		45.28	6717.46	2963.54	
		3.09	6714.37	2966.63	
	RSII	5.23	6709.14	2971.86	
		6.08	6703.06	2977.94	
65		41.48	6661.58	3019.42	
66		45.23	6616.35	3064.65	
	3.313 FRAC PORT	2.65	6613.70	3067.30	14 th 240'
67		45.28	6568.42	3112.58	
68		45.29	6523.13	3157.87	
69		45.27	6477.86	3203.14	
		3.09	6474.77	3206.23	
	RSII	5.24	6469.53	3211.47	
		6.10	6463.43	3217.57	
70		45.30	6418.13	3262.87	
71		45.30	6372.83	3308.17	
	3.375 FRAC PORT	2.65	6370.18	3310.82	243' 15"
72		45.27	6324.91	3356.09	

PACKERS PLUS - PACKER PLACEMENT

73		45.26	6279.65	3401.35	
74		45.27	6234.38	3446.62	
		3.09	6231.29	3449.71	
	RSII	5.24	6226.05	3454.95	
		6.09	6219.96	3461.04	
75		45.28	6174.68	3506.32	
76		45.30	6129.38	3551.62	
	3.438 FRAC PORT	2.65	6126.73	3554.27	16 th 234'
77		42.96	6083.77	3597.23	
78		42.18	6041.59	3639.41	
79		40.95	6000.64	3680.36	
		3.09	5997.55	3683.45	
	RSII	5.24	5992.31	3688.69	
		6.11	5986.20	3694.80	
80		40.53	5945.67	3735.33	
81		42.97	5902.70	3778.30	
	3.500 FRAC PORT	2.65	5900.05	3780.95	17 th 225'
82		40.74	5859.31	3821.69	
83		42.98	5816.33	3864.67	
84		40.90	5775.43	3905.57	
		3.07	5772.36	3908.64	
	RSII	5.24	5767.12	3913.88	
		6.07	5761.05	3919.95	
85		41.07	5719.98	3961.02	
86		39.90	5680.08	4000.92	
	3.563 FRAC PORT	2.65	5677.43	4003.57	18 th 226'
87		42.59	5634.84	4046.16	
88		42.57	5592.27	4088.73	
89		42.54	5549.73	4131.27	
		3.08	5546.65	4134.35	
	RSII	5.25	5541.40	4139.60	
		6.09	5535.31	4145.69	
90		41.06	5494.25	4186.75	
91		41.22	5453.03	4227.97	
	3.625 FRAC PORT	2.65	5450.38	4230.62	19 th 180'
92		38.10	5412.28	4268.72	
93		42.44	5369.84	4311.16	
		3.09	5366.75	4314.25	
	RSII	5.24	5361.51	4319.49	
		6.09	5355.42	4325.58	
94		42.99	5312.43	4368.57	
95		40.30	5272.13	4408.87	
		2.65	5269.48	4411.52	20 th 184'
96		40.30	5229.18	4451.82	
97		42.98	5186.20	4494.80	
		3.08	5183.12	4497.88	
	RSII	5.24	5177.88	4503.12	
		6.07	5171.81	4509.19	

PACKERS PLUS - PACKER PLACEMENT

98		43.30	5128.51	4552.49
99		40.58	5087.93	4593.07
100		40.58	5047.35	4633.65
		3.09	5044.26	4636.74
		1.01	5043.25	4637.75
	SF HANGER	2.52	5040.73	4640.27
		2.83	5037.90	4643.10
		1.65	5036.25	4644.75
		2.83	5033.42	4647.58
		1.04	5032.38	4648.62
		7.84	5024.54	4656.46
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			5024.54	4656.46
			5024.54	4656.46
			5024.54	4656.46



Woolsey Operating Company, LLC

Scale 1:600 (2"=100') Metric
Measured Depth Log

Well Name: Michel 1 H
Location: Section 7 - Township 34 South - Range 11 West
License Number: 15-007-24022-01-00 Region: Barber County, Kansas
Spud Date: June 7, 2013 Drilling Completed:
Surface Coordinates: 2246' FNL and 1480' FEL
Apx. NE SE SW NE
Bottom Hole Coordinates:
Ground Elevation (m): 1432' K.B. Elevation (m): 1449'
Logged Interval (m): 3700' To: Total Depth (m):
Formation: Heebner ----> Mississippian
Type of Drilling Fluid: Chemical Mud, Water/Flozan
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Company, LLC
Address: 125 N. Market Suite 1000
Wichita, Kansas 67202

Remarks

Gas Detection: Woolsey Operating, Trailer #2
 Mud Systems: Mud Co. Brad Bortz, Terry Ibson Engineers
 Directional System: Calmena Energy, Heath Marshall, Mark Sanders, Directional Drillers
 MWD Hands: Shane Lewis, Caleb Consalvi
 Woolsey Operating Company Man: Mike Tharp








































































Rig Crews

Tool Pusher: Steve Ellington, Relief: Sammy Fry
 Day Drillers: Johnnie Stone, Jack Lambert
 Night Drillers: Tanner Barber, Terry Stark
 7 days on 7 days off, 12 hour tours

ROCK TYPES

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

ACCESSORIES

MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymin	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt	 Coral	 Arg	 Grainst
 Chtdk	 Sandy	 Crin	 Bent	 Lithogr
 Chtlt	 Silt	 Echin	 Coal	 Microxln
 Dol	 Sil	 Fish	 Dol	 Mudst
 Feldspar	 Sulphur	 Foram	 Gyp	 Packst
 Ferrpel	 Tuff	 Fossil	 Ls	 Wackest
 Ferr		 Gastro	 Mrst	
 Glau		 Oolite		

OTHER SYMBOLS

POROSITY

- E Earthy
- F Fenest
- F Fracture
- X Inter
- M Moldic
- O Organic
- P Pinpoint

V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- A Subang
- A Angular

OIL SHOW

- E Even

S Spotted

- Q Ques
- D Dead

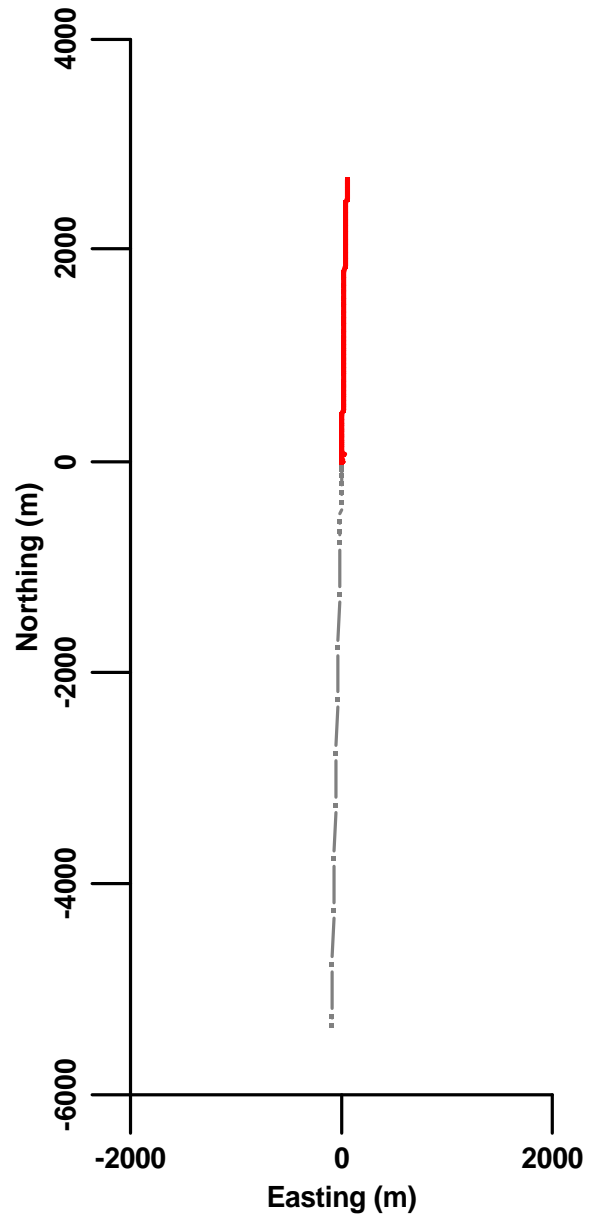
INTERVAL

- C Core
- D Dst

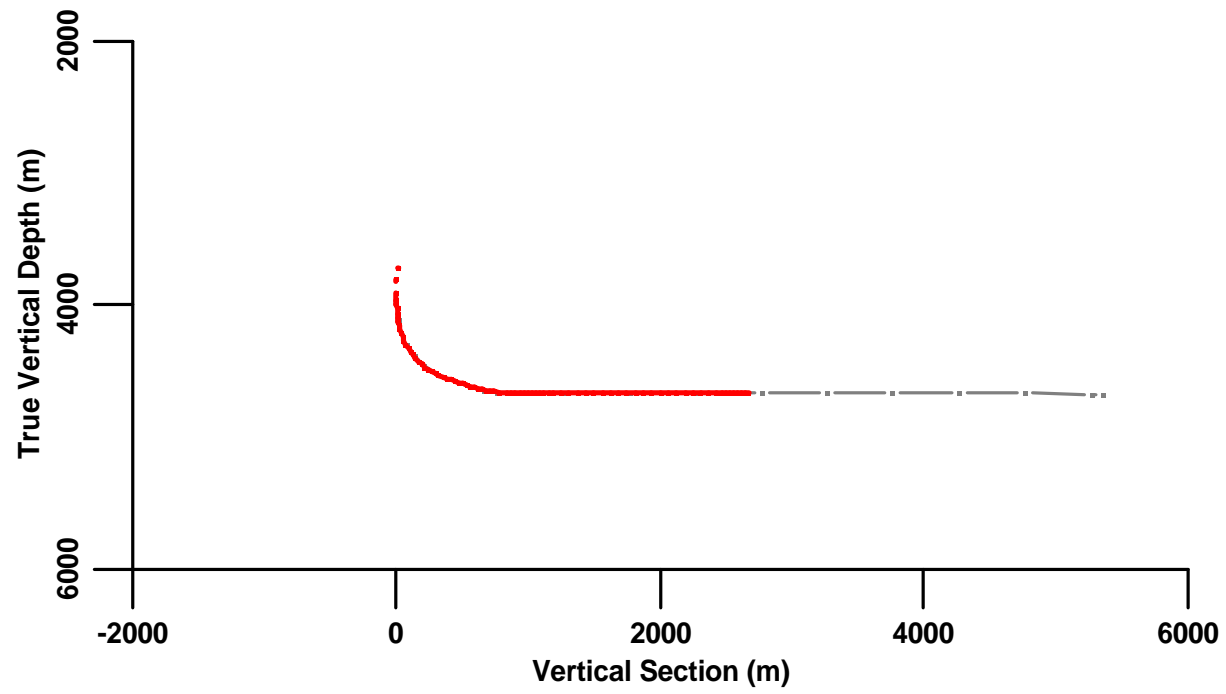
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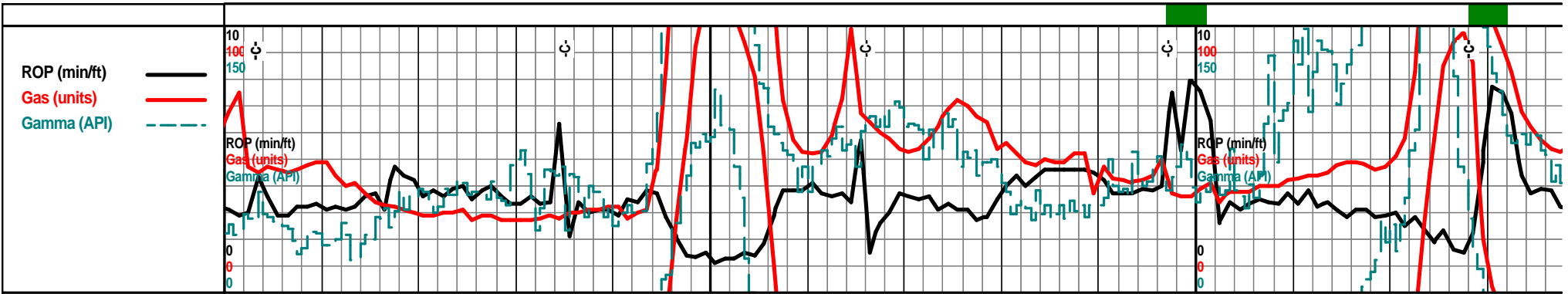
- R Rft
- S Sidewall

Plan



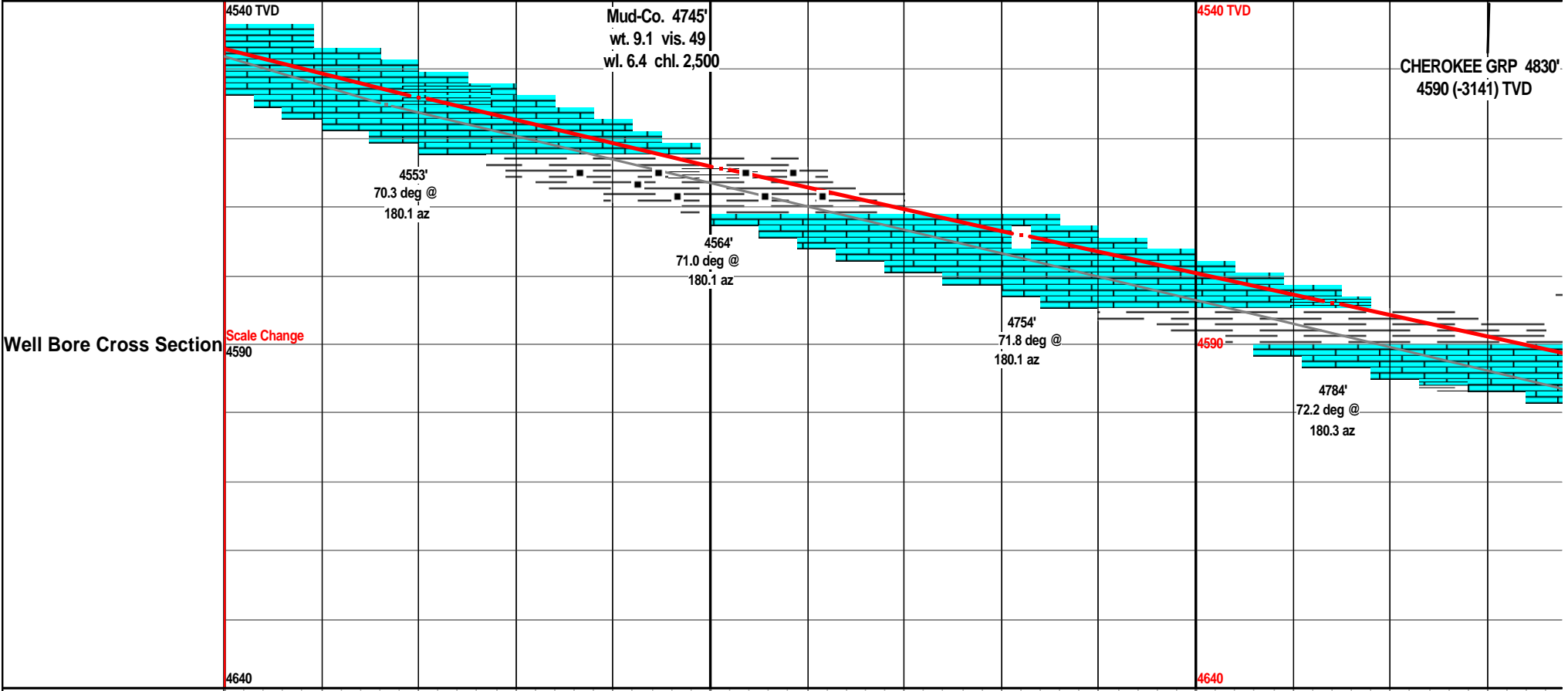
Elevation



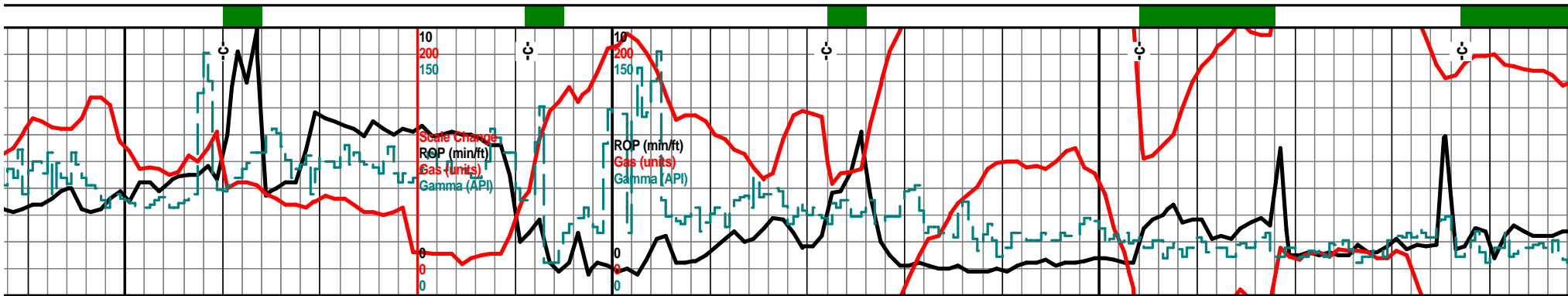


Oil Shows

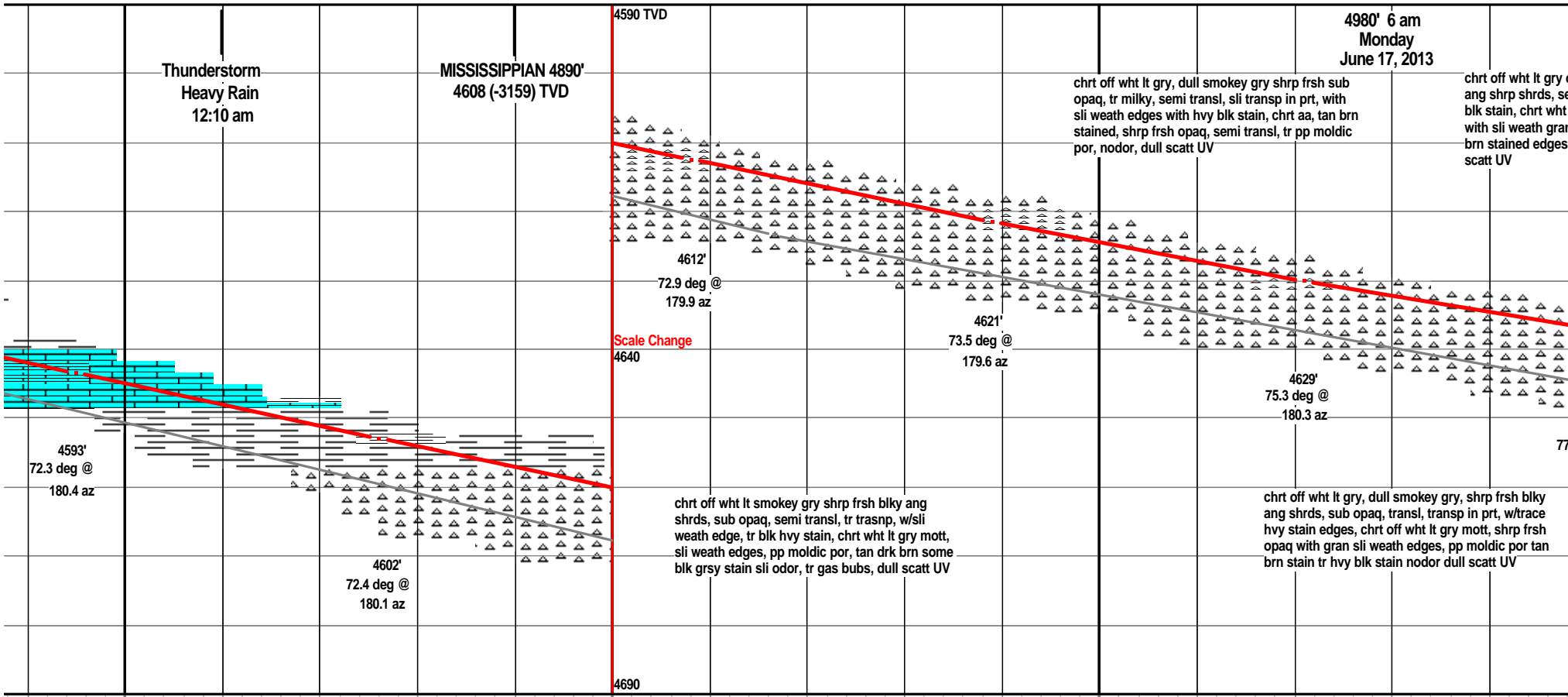
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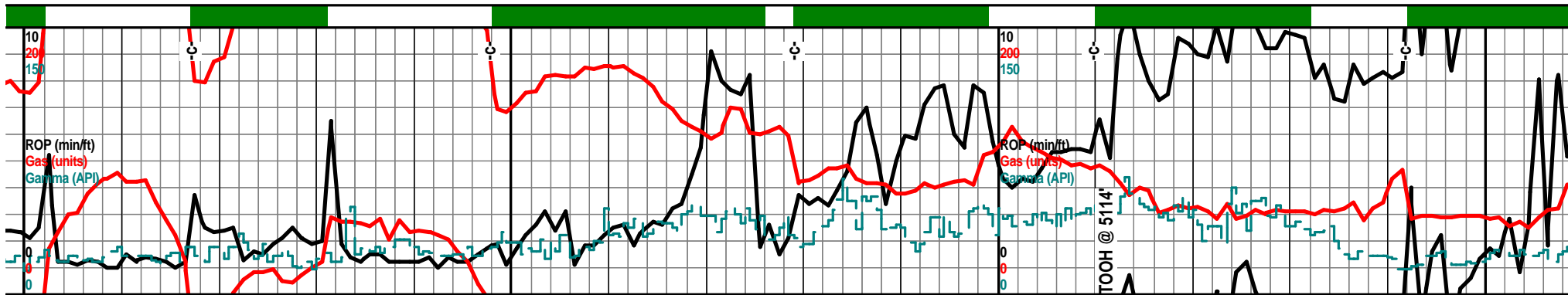


Porosity	24%
	18%
	12%
	6%
Porosity Type	



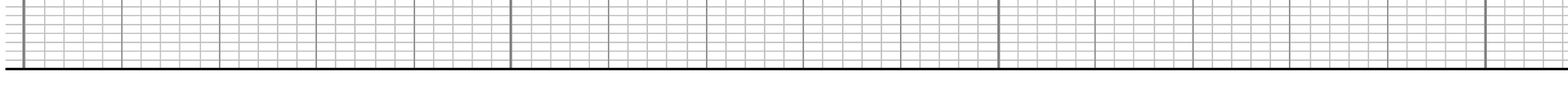
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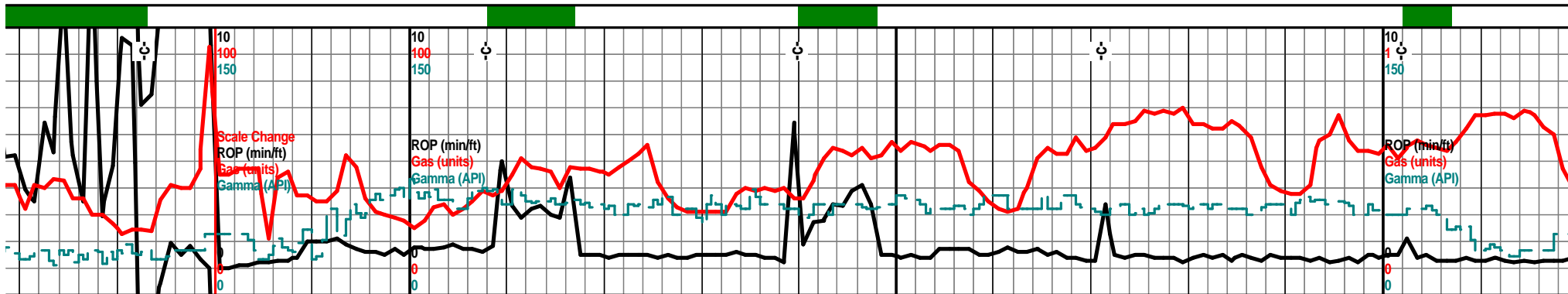




5000 5020 5040 5060 5080 5100 5120 5140

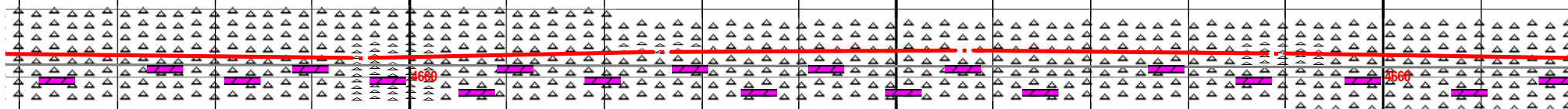
<p>4590 TVD</p> <p>dull smokey gry, shrp frsh blk mi transl, some transp, tr hvy off wht lt gry shrp frsh opa edge text pp moldic por, tan lt , tr blk hvy stain nodor dull</p>		<p>chrt off wht, lt gry dull lt smokey gry shrp frsh semi opa, sli transl in prt, tr transp, blk ang shrp shrds, chrt off wht lt gry with tan lt brn stained sli weath gran text edges, tr hvy blk stain, vis gas bubs, nodor, live UV shows</p>	<p>Mud-Co. 5080' wt. 9.2 vis. 51 wl. 8.0 chl. 3,000</p>	<p>4610 TVD</p> <p>TOOH at 5114' Downhole motor shelled out</p> <p>chrt off wht lt gry, dull smokey gry shrp frsh opa blk ang shrds, semi transl, transp in prt. chrt tan off wht lt gry frsh blk ang with tr sli weath gran sli trip text edges, pp moldic por, tan brn stain, live gas bubs, filmy SFO, nodor, tr blk hvy stain</p>	<p>chrt lt gry off wht lt milky ang shrds, semi transl, so wht lt gry shrp frsh opa trip text edge, pp moldic edge stain, gas bubs, live</p>
<p>4637' .0 deg @ 181.0 az</p>	<p>4643' 78.9 deg @ 181.3 az</p>	<p>4649' 81.4 deg @ 181.7 az</p>	<p>4653' 83.6 deg @ 181.7 az</p>	<p>Scale Change 4660'</p>	<p>4656' 85.8 deg @ 181.5 az</p>
<p>4690</p>	<p>chrt off wht lt gry, lt dull smokey gry shrp frsh semi opa, sli transl, some transp, blk ang shrds, with tr sli weath edge text, hvy grsy stain, chrt lt gry smokey gry, shrp frsh with sli weath gran edges, pp moldic por, sli tan lt brn stain, vis gas bubs, nodor</p>	<p>chrt wht off wht lt smokey gry, shrp frsh opa, sub opa, semi transl, tr transp, with gran weath sli trip text edges, pp moldic por, pp por, tan brn stained edges, hvy blk stain, filmy SFO, gas bubs, live UV, nodor</p>		<p>chrt off wht lt gry smokey, milky opa color, shrp frsh blk ang shrds, semi transl, some transp in prt, chrt off wht lt gry aa with sli weath gran edge text, pp moldic edge por, tan lt brn stain, gas bubs, scatt live UV, tr hvy blk stain</p>	<p>chr shr gry lt b grs</p>





5160 5180 5200 5220 5240 5260 5280 5300 5

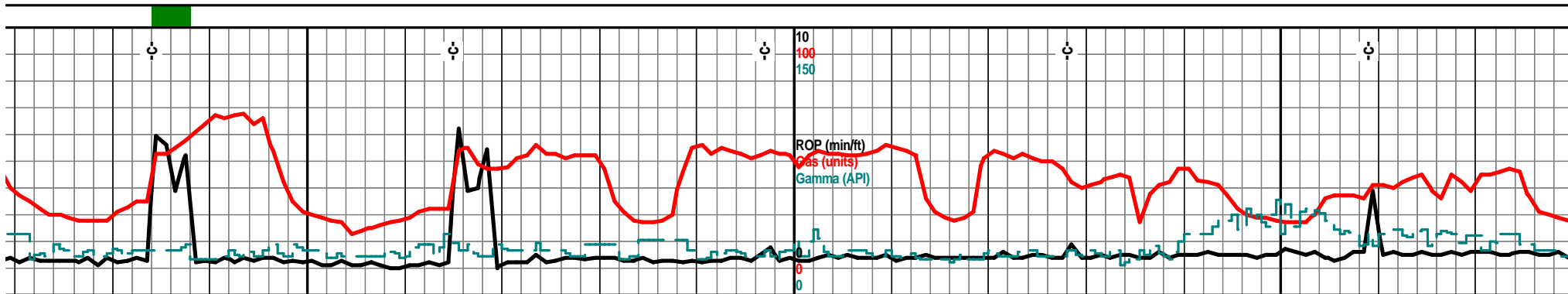
	7" Casing Depth 5180'	4610 TVD			5265' 6 am Friday June 21, 2013	@	4610 TVD	
opaq color, shrp blkly me rare transp, chrt off with sli weath gran sli dge por, drk tan lt brn UV, nodor		chrt off wth lt gry, milky smokey color, shrp blkly ang semi transl, with weath gran vry sli trip text edges, tan brn stain, tr hvly brn stain, gas bubs, dolo chrty dolo crm off wth lt gry/green f vf xln gran soft sub chlkly, pp inter xln por, tan drk tan brn stain, chrt inclu, dull scatt UV			chrt lt gry lt smokey gry, shrp frsh opaql transl, mstly transp, with weath gran trip text edges, pp moldic por, tan brn blk stain tr hv stain, gas bubs, dull UV, with off wth lt gry green dolo edge, inter xln por, tan brn blk stain, blk SFO, nodor			chi sei tex hv' soi sul



	4657' 180.4 az 92.4 deg @	4656' 91.3 deg @ 181.0 az	4656' 89.3 deg @ 180.6 az	4656' 88.9 deg @ 180.6 az	4656' 88.7 180
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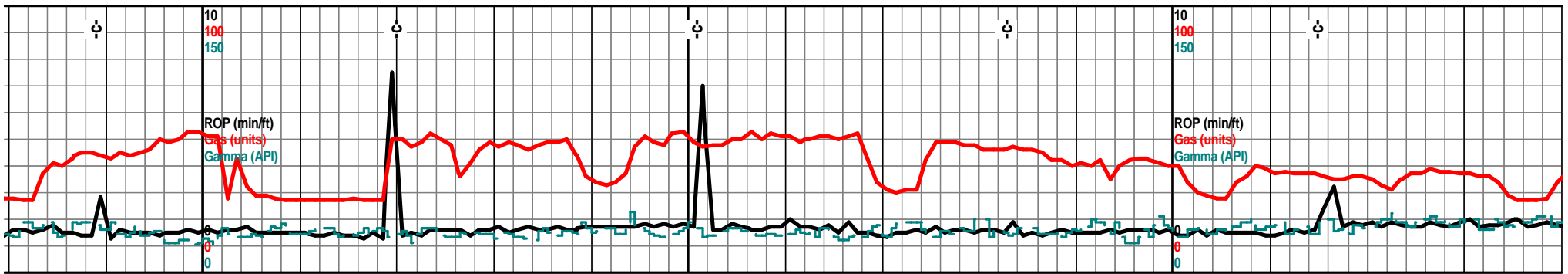
t off wth lt gry, gry wth mott, milky gry opaql, p frsh opaql, blkly ang shrds, with chrt off wth lt , weath gran edge text, pp moldic edge por, tan rn stained edges, tr gas bubs, tr hvly brn/blkly y stain, scatt live UV		dolo crm off wth lt gry green, vf xln gran soft silty gritty in prt, with lt gry frsh shrp opaql blkly ang chrt inclu, tr weath gran edge, pp moldic por, stain drk hvly stain along chrt/dolo contact, chrt lt smokey gry shrp frsh blkly opaql, with sli weath gran sli trip text edge, pp moldic por, stain, gas bubs		dolo off wth lt gry/green f vf xln gran soft blkly fnly sucr pcs, chrty in prt, chrt lt gry lt smokey gry, shrp frsh opaql semi transl, mstly transp, with weath gran sli trip text edges, pp moldic por, drk brn blk stained on edge, hvly blk SFO, gas bubs, scatt dull UV
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4710 4710

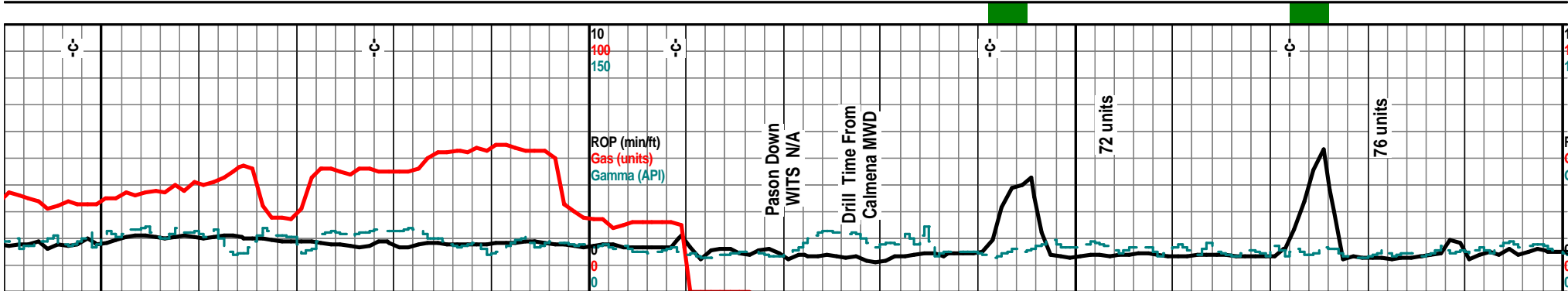


5320 5340 5360 5380 5400 5420 5440 5460 5480

4610 TVD																		
<p>rt off wht lt gry lt smokey gry, shrp frsh opa, mi-transl, mstly transp, with weath gran sli trip t edges, pp moldic por, tan brn to blk stain, y brn SFO, sli odor, tr gas bubs, dull UV, with me dolo off wht lt gry/green f vf xln gran dns b chlky, chrty with chrt inclu aa</p>			<p>chrt lt gry lt smokey gry to tan brn mott, frsh opa gran, with weath gran sli trip text pp moldic por, tan brn stain, drk hvy SFO, gas bubs, sli odor, dolo crm off wht lt gry green f vf xln gran soft sub chlky stain drk grsy stain drk SFO</p>				<p>dolo pff wt ;t gry/greenish, f vf xln gran blkly dns tr glau, pp inter xln por, drk tan brn stain, tr blk stain, chrt off wht lt gry to clr, opa transp in prt, weath gran sli trip edge, pp moldic por, brn blk stain, tr hvy blk stain, odor? tr gas bubs dull scatt UV</p>											
4650																		
<p>4657' deg @ 1.4 az</p>			<p>4657' 89.1 deg @ 180.8 az</p>				<p>4658' 90.0 deg @ 180.3 az</p>			<p>4658' 90.2 deg @ 180.8 az</p>			<p>4657' 90.2 deg @ 180.8 az</p>			<p>4657' 89.9 deg @ 180.8 az</p>		
<p>chrt off wht lt gry lt gry smokey with tan brn mott, shrp frsh opa, semi transl, mstly transp, blkly ang shrds with weath gran sli trip text edges, pp moldic por, tan brn stain, drk grsy SFO, gas bubs, dolo wht off wht lt gry green f vf xln dns blkly ang soft sub chlky, tr glau, some chrty, chrty inclu, tan brn stain, drk SFO/brkn</p>			<p>chrt lt gry off wht lt smokey with tan drk brn mott weath sli trip gran edges, pp moldic por, tan brn drk brn hvy stain, dolo off wht lt gry green f vf xln blkly ang sub chlky tr glau, pp interxln por tan brn stain, drk brn stain</p>				<p>dolo off wht lt gry gr sub chlky tr glau, so stain, chrt off wht lt gry ang blkly pcs, with sl tan brn some blk sta</p>											
4710																		

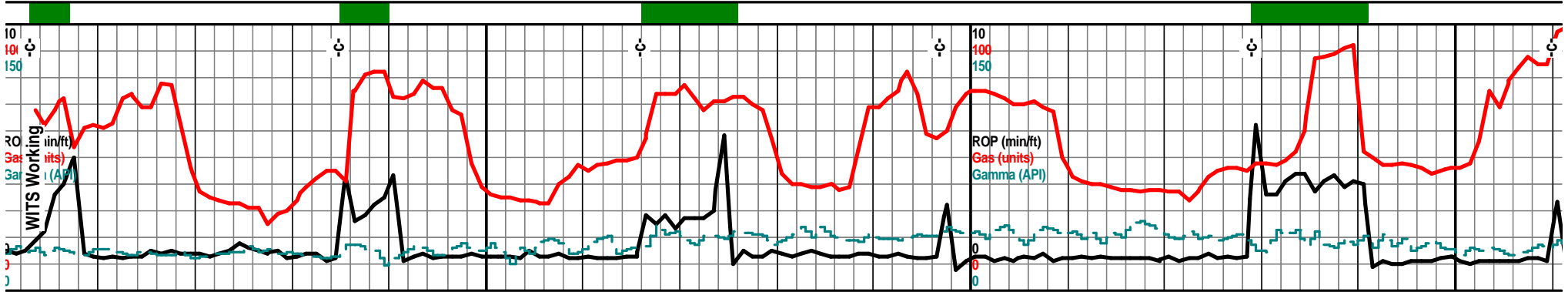


480	5500	5520	5540	5560	5580	5600	5620	56
	4610 TVD					4610 TVD		
	dolo wht off wht lt gry green, f vf xln gritty sndy text, glau, pp inter xln por, drk tan brn stain, chrt in prt w/lt gry lt smokey gry shrp sli weath chrt inclu, chrt off wht lt gry shrp frsh opa, semi transl, some transp, sli gran sli trip weath edges, tan brn blk stain, odor? tr gas bubs, dull scatt UV			dolo crm tan brn mott, f vf xln gran blk ang soft sub chiky, pp inter xln por, tan brn stain, gas bubs, chrt off wht lt gry lt smokey gry with dolo aa edges, tan brn stain, drk hvy stain, gas bubs, scatt dull UV,			dolo wht off wht lt green/gry f vf xln gr sndy, tr glau, chrt, dolo aa with chrt, c gry shrp frsh opa semi transl, mstly tr weath gran sli trip text edges, pp moldi brn stain, tr hvy brn/blk stain, sli odor, bubs/brkn dull scatt UV	
	4657'			4657'		4657'		
	90.0 deg @ 180.6 az			90.3 deg @ 180.6 az		90.5 deg @ 181.0 az		
reen f vf xln dns blk agran me pp inter xln por, tr drk gry some transp, opa shrp li weath gran sli trip edges, in, tr gas bubs, scatt dull UV			incr chrt wht off wht lt gry with tan brn mott weath gran sli trip edges, tan brn stain, gas bubs, drk brn SFO/brkn, scatt UV, dolo off wht lt gry/green f vf xln gran sndy gritty text, chrt in prt, dolo aa with sli weath chrt inclu, sho/stain along chrt dolo contact, odor in all?			chrt off wht lt gry lt smokey gry shrp frsh opa semi transp in some, with tan brn stained sli weath gran sli trip edges, pp moldic por, tan brn staine, fillmy SFO, sli odor, dolo crm off wht lt gry, greenish, f xln gran sndy text, with chrt aa inclu, show/stain along dolo/ chrt contact, sli odor, brn hvy stain, scatt dull UV		
	4710					4710		



40 5660 5680 5700 5720 5740 5760 5780 5800

			4610 TVD		5730' 6 am Saturday June 22, 2013			
an girty off wht lt ransp, with ic por, tan gas		dolo off wht lt crm, lt greenish tint, f vf xln gran soft sub chiky, gritty sndy text, glau, tan brn stained mott in prt, pp inter xln por, chrt inclu, lt gry to clr transp with sli weath sli trip text, pp moldic por, tan brn some drk blk hvy stain, tr gas bubs, dull scat UV			chrt lt gry lt smokey gry and tan brn mott, shrp frsh gry with tan brn stained sli weath, sli trip text edges, pp moldic por, drk SFO, gas bubs, dolo crm lt gry/green f vf xln sndy gritty text tan brn stain, chrt with chrt aa inclu			chrt lt opaq tan brn moldic dolo chrt SFO
			4656'		4655'			4655'
			91.10 deg @ 180.80 az		90.0 deg @ 180.6 az			90.0 deg @ 180.8 az
	5660' not retrieved				chrt lt gry vry lt smokey gry, shrp frsh opa, semit transl, mstly transp, bhk blkly and shrds, dolo and chrt dolo, off wht lt gry/green f vf xln gran blkly ang some sndy gritty pcs, pp moldic por, tan brn stain hvy SFO, sli odor, gas bubs			chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrt dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain
					Mud-Co. 5729' wt. 8.4 vis. 27 wl/N/C chl. 1,100			
			4710					



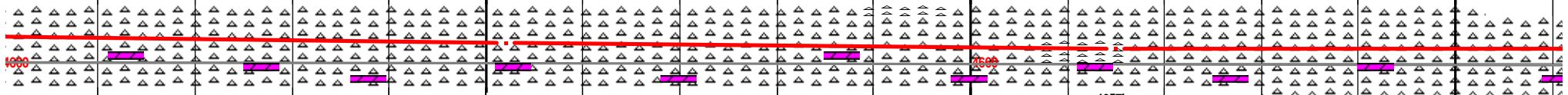
10 100 150 10 100 150

ROP (min/ft) Gas (units) Gamma (API)

t gry, lt smokey gry, some off wht, shrp frsh, semi transl, some transp, biky ang pcs, with rn stained weath sli trip gran text edges, pp ic por, tan brn stain, VSSF0/brkn, gas bubs, crm lt gry green f vf xln gran gritty sndy text, with chrt inclu aa, tan brn stain, tr hvy grsy

chrt off wht lt gry lt smokey gry, shrp frsh opa, semi transl, some transp, with tan brn stained sli gran weath sli trip edge text, pp moldic por, drk brn SFO/brkn, tr gas bubs, chrt dolo off wh lt gry green vf xln gran gritty sndy chrt inclu aa, sli odor??

chrt off wht lt gry lt smokey gry, shrp frsh opa, with tan brn stained sli weath sli trip text edges, tan brn stain, drk SFO on brk, dolo tan brn mott f v fxin gran sndy gritty, chrt with tan brn stained weath chrt inclu, tan brn stain, dolo off wh lt gry/greenish, f vf xln gran gritty sndy tr glau, chert inclu NS



4656'
88.3 deg @
181.0 az

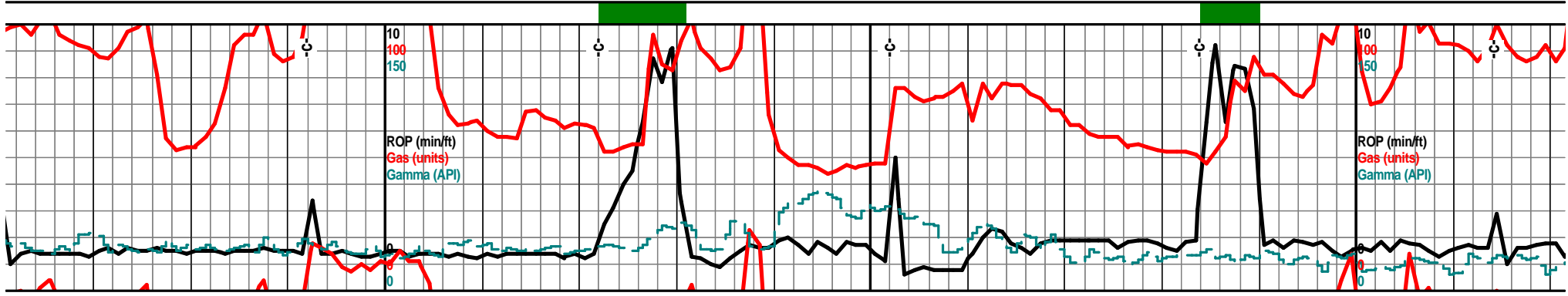
4657'
89.9 deg @
180.8 az

chrt off wht lt gry lt smokey gry shrp frsh with tan brn mott stained weath sli trip text edges, tan brn stain, SFO on brk, gas bubs, sli odor, some dolo off wh lt gry green, vf xln gran sndy gritty, chrt with chrt inclu aa, chrt dolo, spls more chrt less dolo!

chrt off wht lt gry shrp frsh opa semi transl, some tansp, shrp opa shrds, with tan brn colored gran sli weath sli trip text edges, tan brn stain drk brn SFO when brkn, gas bubs dull scatt UV, dolo, chrt dolo as before,

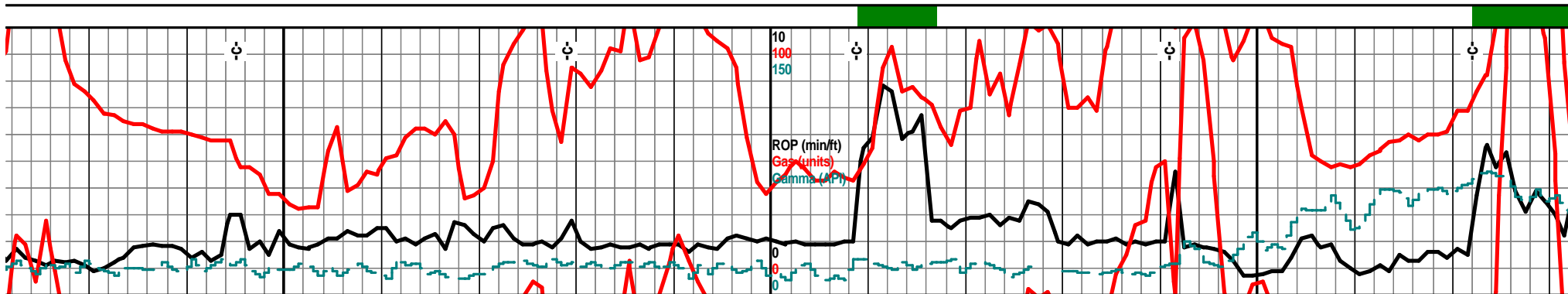
chrt off wht lt gry lt gr semi transl some trans dolomitic edge, tan br tr filmy SFO on spl w chrt, f xln gran sndy chrt inclu, tan brn stai

4710 4710



0 5980 6000 6020 6040 6060 6080 6100 6120

		4610 TVD								4610 TVD		
	chrt off wht lt gry lt smokey gry, shrp frsh opa, semi transl, some transp, with weath gran sli trip text, dolo edges, pp moldic por, tan brn stained, drk SFO, gas bubs, chrt dolo off wht f vf xln chrt sli glau with sli weath sli trip chrt inclu, stain, tan brn SFO, gas bubs dull scatt UV			big incr chrt lt gry lt smokey gry, shrp frsh opa, semi transl, mstly transp, shrp blk ang shrds, with some with sli weath gran trip text edge, tr stain, tan brn drk stain, pp moldic por, tr gas bubs/brkn, dolo off wht lt gry green f vf xln blk ang dns sub chiky chrt with chrt inclu aa						chrt off wht lt gry dull gry/tan shrp frsh transl, mstly transp, blk ang shrp shrd stain, nodor, NSFO, dull scatt UV		
	4657 90.2 deg @ 180.6 az			4657 91.0 deg @ 179.9 az						4656 89.6 deg @ 180.8 az		
y smokey shrp frsh opa, sp, with weath gran sli trip n stain, drk SFO, gas bubs, iter, dolo off wht lt gry green text, with weath sli trip text in, brn SFO, sli odor			dolo wht off wht lt gry, green/gry f vf xln gran gritty sndy, tr glau, chrt, chrt off wht lt gry lt smokey gry shrp frsh, shrp opa, semi transl, dolomitic edges, tan brn stain, drk hvy stain, sli odor, gas bubs, brn SFO on brk.						chrt lt gry lt smokey gry, shrp frsh ang blk shrds, semi transl, mstly transp, vit, with sli weath, gran sli trip text edges, some pp moldic por, tan brn edge stain, tr gas bubs, scatt dull UV, 85% frsh-no show			
		4710								4710		



6140 6160 6180 6200 6220 6240 6260 6280

6 am 6145' Bit Trip
Sunday, June 23, 2013

4610 TVD

opaq semi ls, tr edge

chrt off wht lt gry shrp frsh, blkly ang shrds, semi transl, mstly transp, with tr sli weath, gran vry sli trip text, pp moldic, some vis frac por, nodor, scatt dull UV

chrt off wht lt gry smokey gry, shrp frsh opaq semi transl, some transp, blkly ang shrds, with weath sli trip, some gran text, pp moldic por, tan brn stain along edge, w/chrtly lst drk tan brn mott (fizz w/acid) f xln sub chlky with gry/smokey gry shrp chrt inclu with sli gran, sli weath chrt inclu AA

chrt lt shrds, weath SFO, t



4656'
90.8 deg @
182.5 az

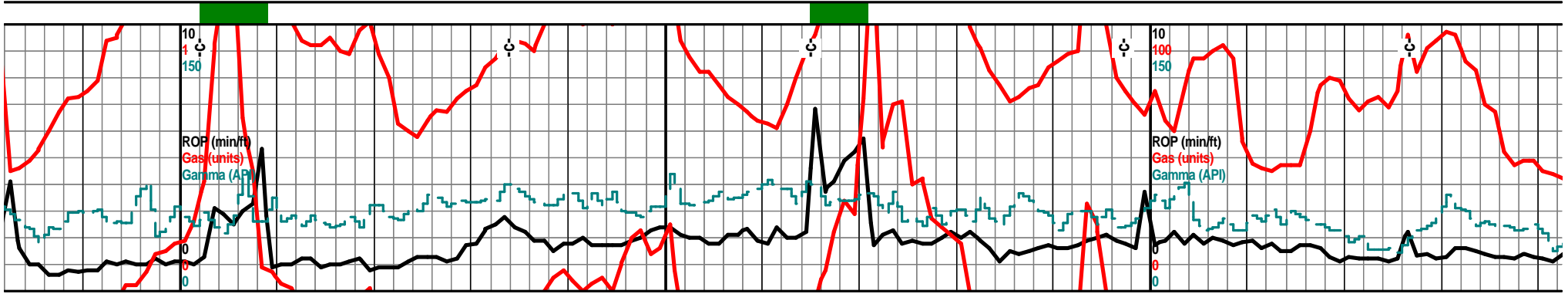
4655'
91.1 deg @
182.7 az

chrt off wht lt gry milky gry, shrp frsh opaq, semi transl, mstly transp, shrp blkly ang shrds, tr weath gran edge, mstly frsh, tr edge stain dull scatt UV, some dolo wht off wht lt gry green f vf xln gran sndy text, tr glau, tr chrtly with lt gry frsh chrt inclu.

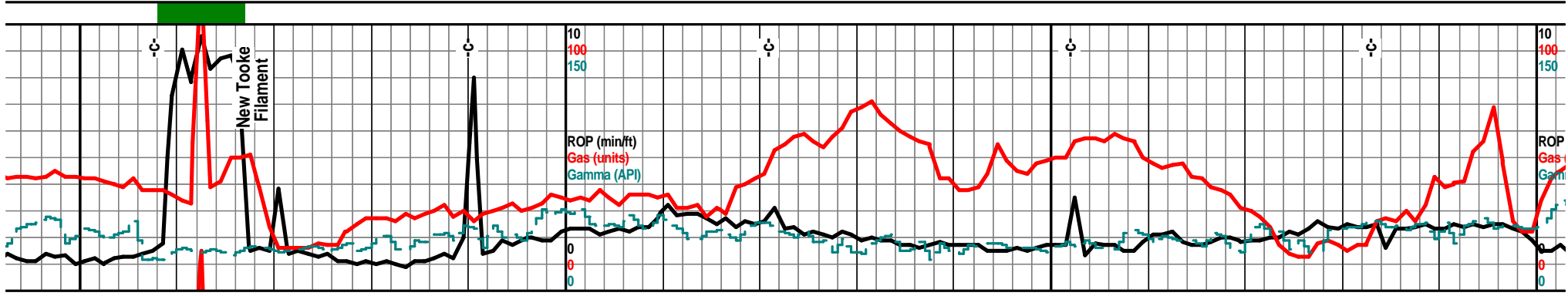
chrt off wht lt gry, lt smokey gry shrp frsh opaq, semi transl, mstly transp, with sli weath, gran sli trip text edge, pp moldic por, some vis frac por, tan brn stain along weath edge, pp moldic por, tr hvly brn stain, nodor, dull scatt UV

chrt off wht lt gry, lt smokey gry, shrp frsh blkly ang shrds, semi transl, some transp, dolo/lt tan brn mott (acid +) f xln sub chlky with lt gry smokey gry weath sli gran some sli trip text chrt inclu, pp moldic por, tan brn stain, VSSFO/brkn, tr gas bubs, nodor, dull scatt UV

4710



6300	6320	6340	6360	6380	6400	6420	6440
6300' 7 am Monday June 24, 2013					Mud-Co. 6401 ⁹ wt. 8.5 vis. 30 wl. N/C chl. 900		
gry vry lt smokey gry, off wht, shrp blkly ang semi transl, mstly all transp. with some sli trip edge text, drk brn stain, drk brn r gas bubs, dull UV, odor,		chrt off wht lt gry, lt smokey gry, shrp frsh opa, semi transl, mstly tranap, blkly ang shrps with sli weath edges, pp moldic por, drk tan, drk brn stain, gas bubs, dull UV		chrt lt gry lt smokey gry color, shrp frsh opa, blkly ang shrds, transl, mstly transp, chrt gry brn mott shrp frsh with weath sli trip text edges/sides, drk tan to drk brn stain, drk SFO w/brnkn, abun gas bubs, floating droplets			
4655' 89.4 deg @ 181.8 az		4655' 89.7 deg @ 182.0 az		4656' 88.9 deg @ 180.1 az			
chrt off wht lt gry, milky, lt smokey color, shrp frsh blkly ang shrds, semi transl, mstly transp, with drk tan brn some blk stained sli weath edges, pp moldic por, brn drk brn stain, gas bubs, floating droplets, filmy SFO, fair odor, dull scatt UV		chrt off wht lt gry, smoke color gry, shrp frsh blkly opa ang shrds, semi transl, some to mstly transp, with si weath sli trip text edges, pp moldic por, drk tan brn stain, drk SFO, odor, dull UV		chrt gry, smokey gry, shrp transp, blkly ang shrds and frsh with weath sli trip text stain, drk brn SFO, odor, j bubs, "floaters"			
4710		4710		4710			



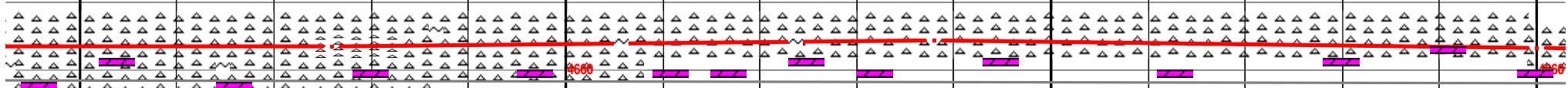
6460 6480 6500 6520 6540 6560 6580 6600

4610 TVD 4610

chrt lt gry off wht milky/smokey color, shrp frsh semi transl, mstly transp, shrp blkly opaqr shrds, some brn drk brn stained sli trip text weath edges, pp moldic por, drk brn stain, VSS drk brn oil, nodor, dull scatt UV, incr chrt dolo, off wht lt green tint f vf xln dns hrd chrty glau

dolo crm off wht lt greenish, f vf xln dns hrd blkly, ang pcs, glau, chrty in prt, dolo chrt, chrt lt smokey gry shrp frsh opaqr shrds, semi transl, alot transp, with sli tr tan drk brn some blk stained weath sli trip text edges, pp moldic por, spls mstly dolo aa

dolo, chrty dolo, wht off wht f vf xln, snd text, tr glau, pp inter xln por, tan brn stain SFO, floaters, chrt lt gry shrp frsh opaqr, transl, mstly shrp frsh transp,



4656'
91.0 deg @
180.8 az

4655'
90.8 deg @
181.5 az

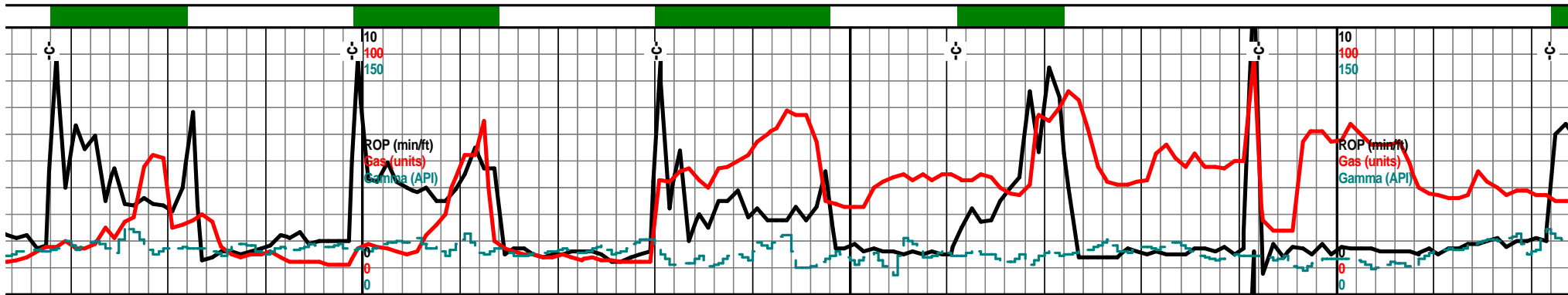
4656'
87.3 deg @
181.5 az

frsh opaqr semi transl, d chrt gry brn mott, shrp t edges/sides, drk brn pp moldic por, gas

chrt off wht lt gry, milky/smokey gry, shrp frsy semi transl, mstly transp, blkly ang shrp shrds, some with drk brn staind sli weath vsli trip text edges, tan brn stain tr gas bubs, chrty dolo crm lt green tint, f vf xln blkly ang hrd dns pcs, glau, chrt inclusiona NS

dolo crm tan off wht with tan lt brn mott in prt, f vf xln gran sndy gritty tr glau, pp inter xln por, tan lt brn stain, SSFO/brkn, chrt lt smokey gry, shrp frsh opaqr, transp, shrp blkly ang shrds NC in Chrt

4710 4710



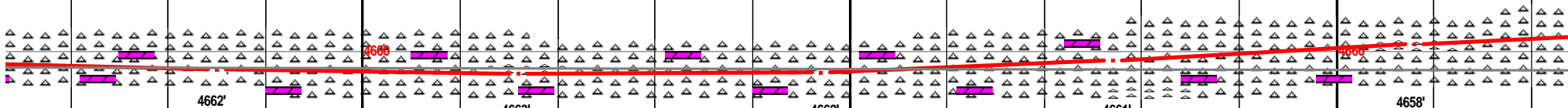
6780 6800 6820 6840 6860 6880 6900 6920

Day 3
 4610 TVD
 Bit Trip 6830'
 4610 TVD
 6920' 6 am Wednesday June 26, 201

chrt lt blue/gry, some smokey, shrp frsh sl, some transp, some with drk tan brn mott f xln dolo edge, pp moldic inter xln m brn stain, drk SFO on brk, gas bubs, UV, dolo drk tan brn f vf xln gran, gritty ter xln por, drk tan brn stain, drk SFO on bubs dull UV

chrt off with lt gry smokey, tr blue gry shrp frsh opa, with tan drk brn wht mott f xln dolo edge, pp molic, inter xln por, mstly tite dns, drk SFO on brk, tan drk tan brn stain odor? scatt dull UV, dolo tn brn gry brn f vf xln blk ang dns gran tan drk brn stain,

chrt lt gry, lt milky smoke color, blue gry shrp frsh opa, some transp, with drk tan brn wht mott f xln dolo edge, pp moldic por, drk tan brn stain, drk SFO, filmy SFO, gas bubs odor,



4662'
87.9 deg @
181.7 az

4663'
89.2 deg @
181.5 az

4662'
92.1 deg @
181.5 az

4661'
94.3 deg @
182.0 az

4658'
94.3 deg @
182.2 az

chrt off wht lt gry shrp frsh opa semi transl, some transp, with drk crm tan brn mott weath dolo edges, tan brn stain, pp moldic por, inter xln por, tan drk brn stain, odor, drk brn SFO on brk, scatt dull UV,

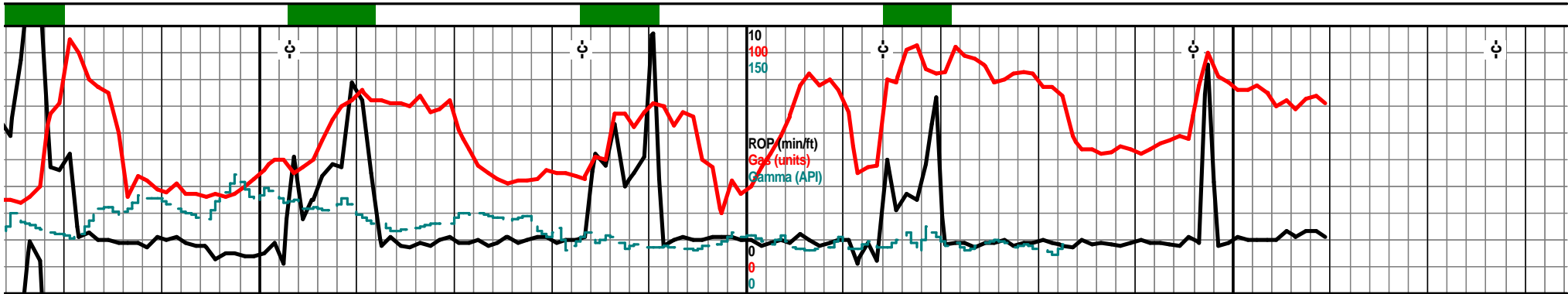
chrt off wht lt gry smokey color, shrp frsh opa, with tan drk tan brn off wht mott f xln edge, pp moldic por, inter xln por, dns tite, drk brn stain, filmy SFO, floating droplets, scat dull UV, odor,

chrt off wht lt gry shrp frsh blk ang shrds, semi transl, mstly all transp, some with drk tan brn f v xln dolo edge, pp moldic por, brn stain, scatt UV dolo lt gry green vf xln dns hrd pyritic, blk sub chiky pcs, glau in most

Mud-Co. 6830'
wt. 8.5 vis. 30
wl. N/C chl. 950

4710

4710



6940

6960

6980

7000

7020

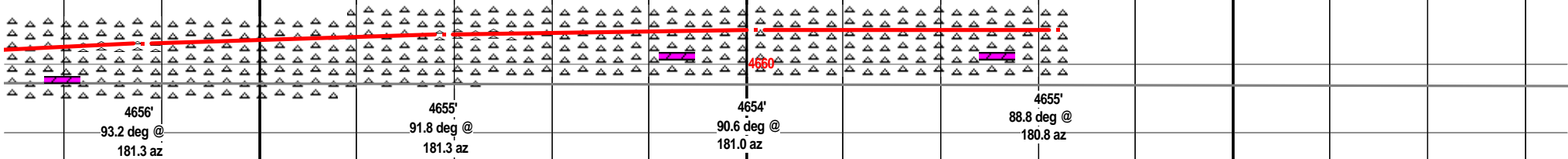
7040

7060

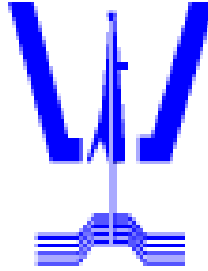
7080

4610 TVD

<p>chrt off wht lt gry vry lt milky/smokey gry, shrp frsh opa, semi transl, mstly transp, blk ang shrds, tr with tan drk brn gran dolo edge, tan brn stain, grsy hvy SFO, dolo lt gry green, f vf xln dns hrd blk sub chlky glau, mixed bag spl, has everything</p>	<p>chrt off whltt gry lt milky smokey gry, shrp frsh opa, semi transl, mstly transp, blk ang shrp shrds, tr weath gran tan drk brn stained dolo edges, pp moldic por, por, tan brn stain, tr hvy blk stain SSFO, tr gas bubs, filmy SFO, nodor</p>	<p>chrt off wht lt gry lt smokey color, shrp frsh blk ang shrds, semi transl, mstly transp, chrt wht tan brn mott gran sli weath text, tan brn stained, pp moldic por, nodor, scatt UV, dolo gry mstly green f vf xln dns hrd gran gritty, glau with chrt inclu aa</p>
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	<p>chrt off wht lt gry, lt milky smokey gry, shrp frsh opa, semi transl, mstly transp, blk ang shrp shrds, tr with weath gran tan drk brn stained dolo edges, pp moldic por, tan brn stain tr hvy blk SFO, tr gas bub dull scatt UV nodor</p>	<p>chrt lt gry lst smokey gry shrp frsh opa, semi transl, mstly transp, blk ang shrp shrds, with sli weath gran sli trip text tan brn mott edges, pp moldic por, drk tan brn stain, filmy SFO on brk, sli odor?, dull scatt UV</p>
	<p>Mud-Co. 6990' wt. 8.5 vis. 31 wl. N/C chl. 900</p>	<p>4710</p>



Woolsey Operating Company, LLC

Scale 1:600 (2"=100') Metric
Measured Depth Log

Well Name: Michel 1 H
Location: Section 7 - Township 34 South - Range 11 West
License Number: 15-007-24022-01-00 Region: Barber County, Kansas
Spud Date: June 7, 2013 Drilling Completed:
Surface Coordinates: 2246' FNL and 1480' FEL
Apx. NE SE SW NE
Bottom Hole Coordinates:
Ground Elevation (m): 1432' K.B. Elevation (m): 1449'
Logged Interval (m): 3700' To: Total Depth (m):
Formation: Heebner ----> Mississippian
Type of Drilling Fluid: Chemical Mud, Water/Flozan
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Company, LLC
Address: 125 N. Market Suite 1000
Wichita, Kansas 67202









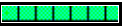

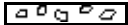









Remarks

Gas Detection: Woolsey Operating, Trailer #2
 Mud Systems: Mud Co. Brad Bortz, Terry Ibson Engineers
 Directional System: Calmena Energy, Heath Marshall, Mark Sanders, Directional Drillers
 MWD Hands: Shane Lewis, Caleb Consalvi, Joe Newberry
 Woolsey Operating Company Man: Mike Tharp








































































Rig Crews

Tool Pusher: Steve Ellington, Relief: Sammy Fry
 Day Drillers: Johnnie Stone, Jack Lambert
 Night Drillers: Tanner Barber, Terry Stark
 7 days on 7 days off, 12 hour tours

ROCK TYPES

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

ACCESSORIES

MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymin	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt	 Coral	 Arg	 Grainst
 Chtdk	 Sandy	 Crin	 Bent	 Lithogr
 Chtlt	 Silt	 Echin	 Coal	 Microxln
 Dol	 Sil	 Fish	 Dol	 Mudst
 Feldspar	 Sulphur	 Foram	 Gyp	 Packst
 Ferrpel	 Tuff	 Fossil	 Ls	 Wackest
 Ferr		 Gastro	 Mrst	
 Glau		 Oolite		

OTHER SYMBOLS

POROSITY

- E Earthy
- F Fenest
- F Fracture
- X Inter
- M Moldic
- O Organic
- P Pinpoint

V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- A Subang
- A Angular

OIL SHOW

- E Even

S Spotted

- Q Ques
- D Dead

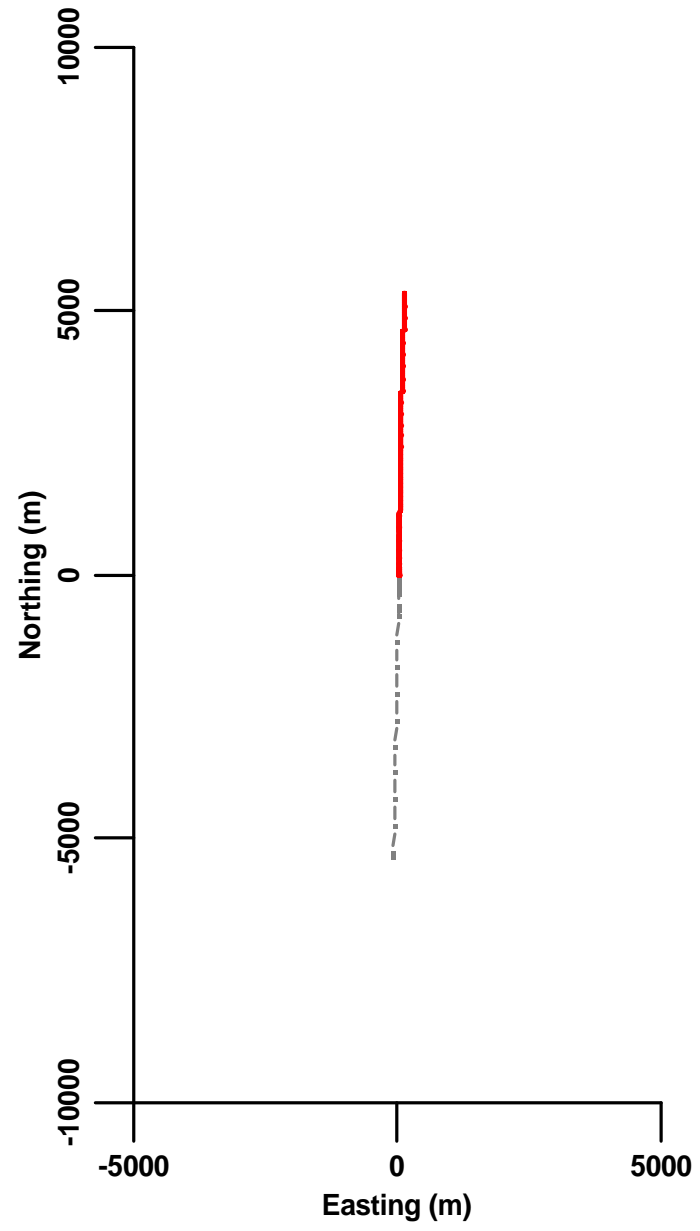
INTERVAL

- C Core
- D Dst

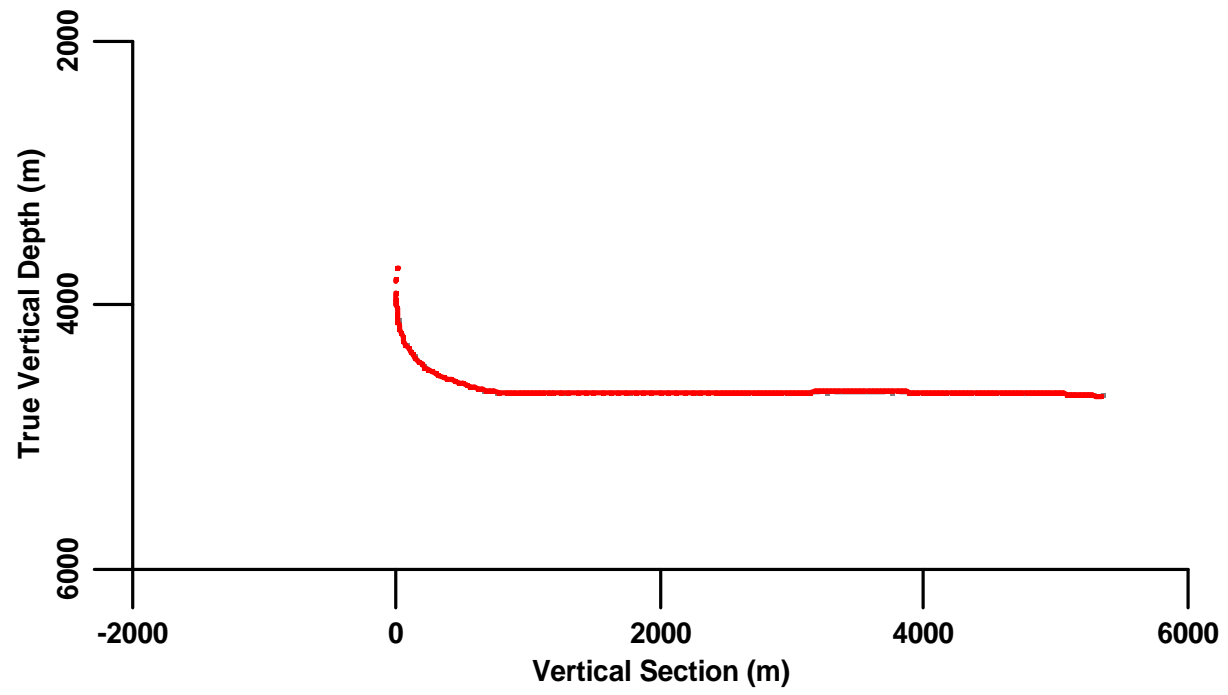
EVENT

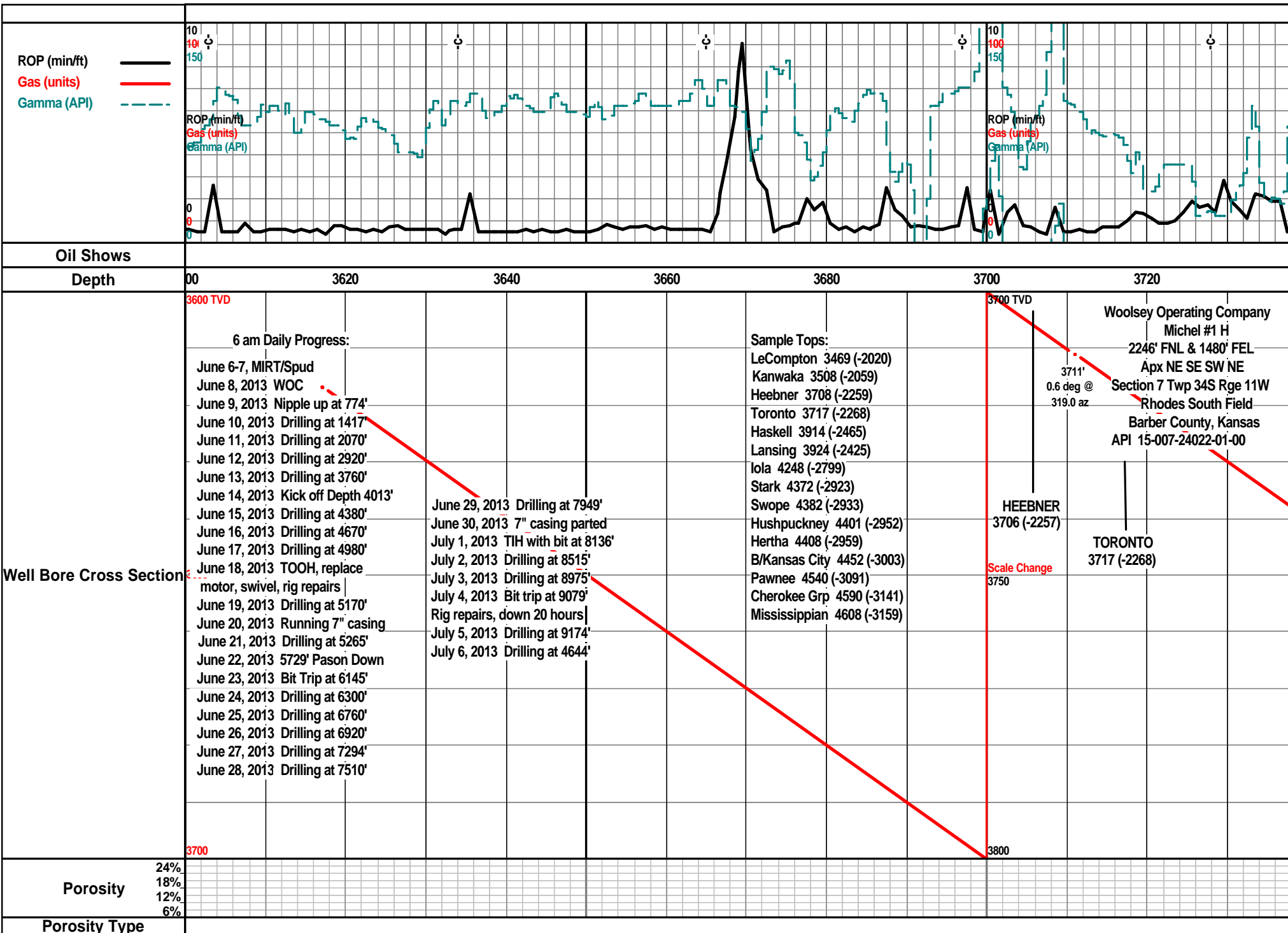
- R Rft
- S Sidewall

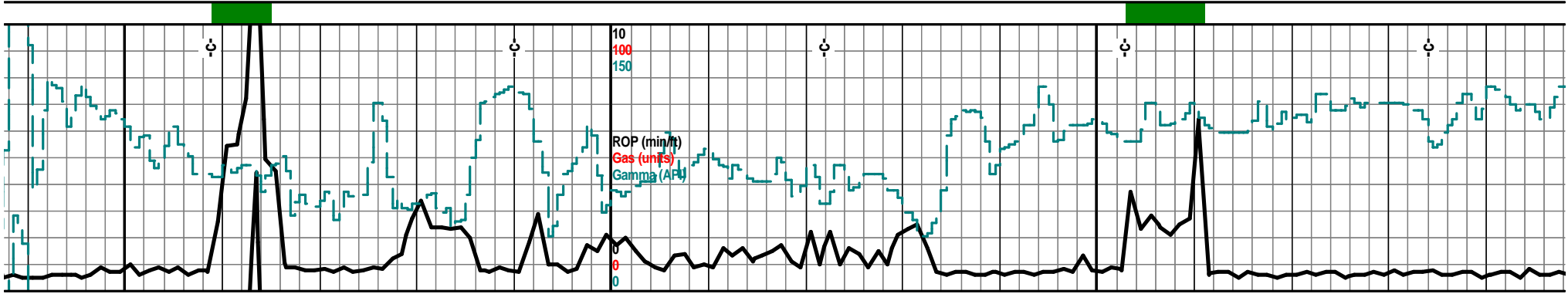
Plan



Elevation







3740

3760

3780

3800

3820

3840

3860

3880

Geo on Location
3765' 6:45 am
June 13, 2013

Reference wells: Woolsey Operating
Co's Michel C #1, C NE SE, 7-34S-11W,
Woolsey Operating Co's Michel B #1, SE
SE NE, 18-34S-11W.

3800 TVD

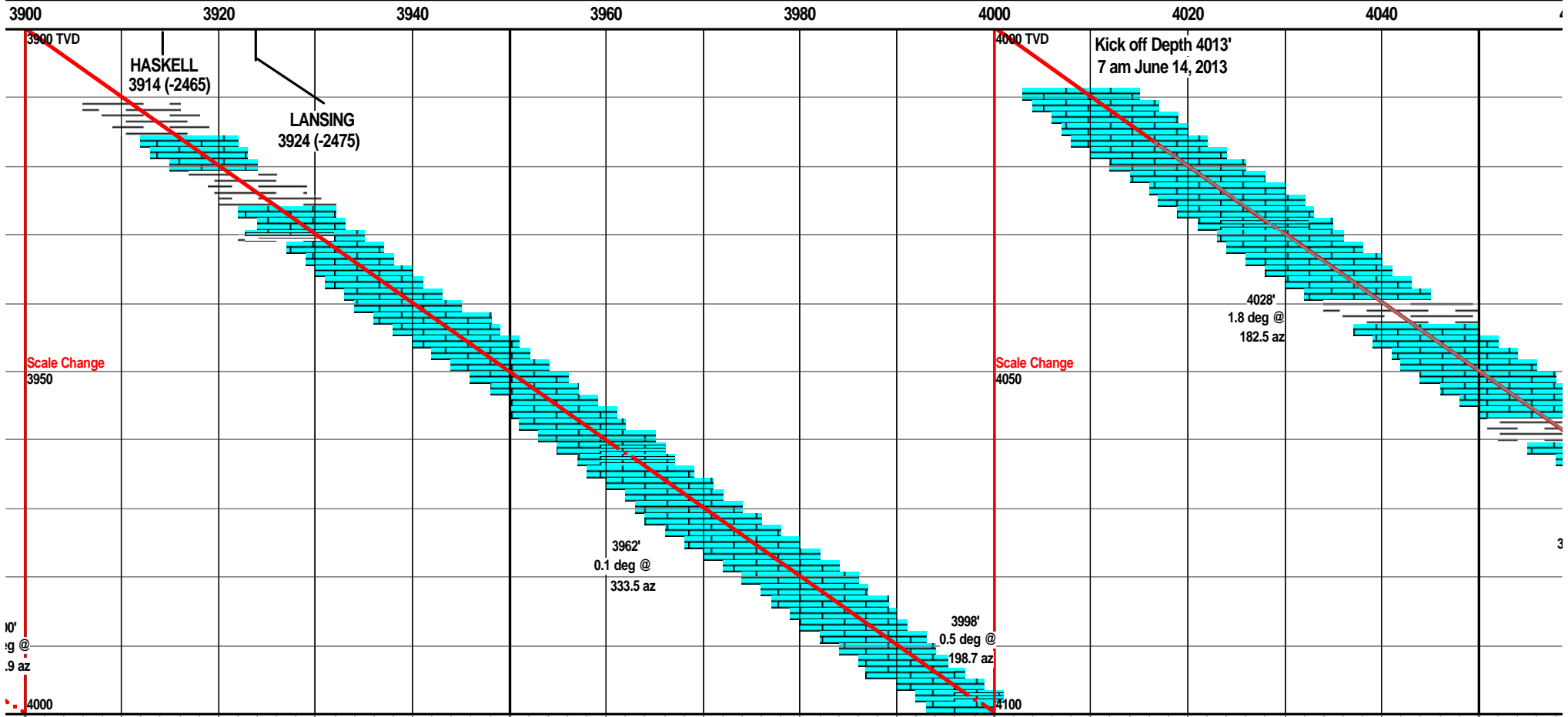
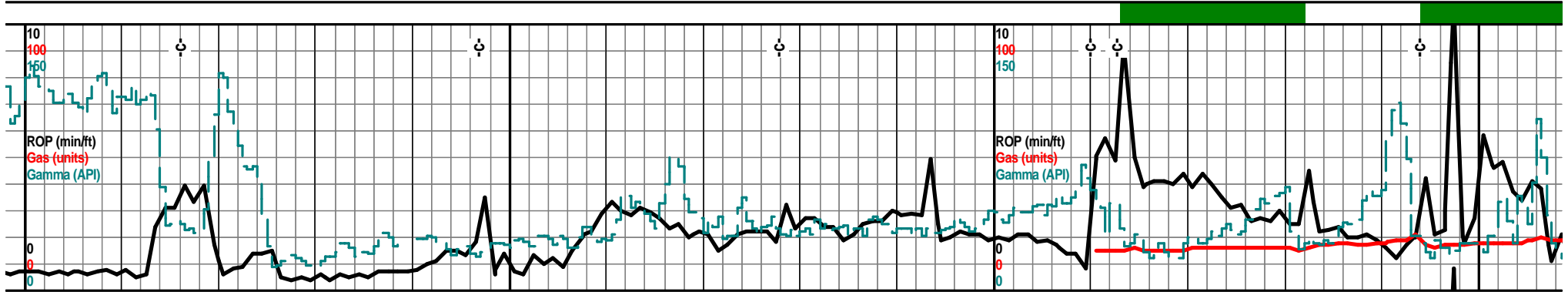
3804'
0.2 deg @
8.5 az

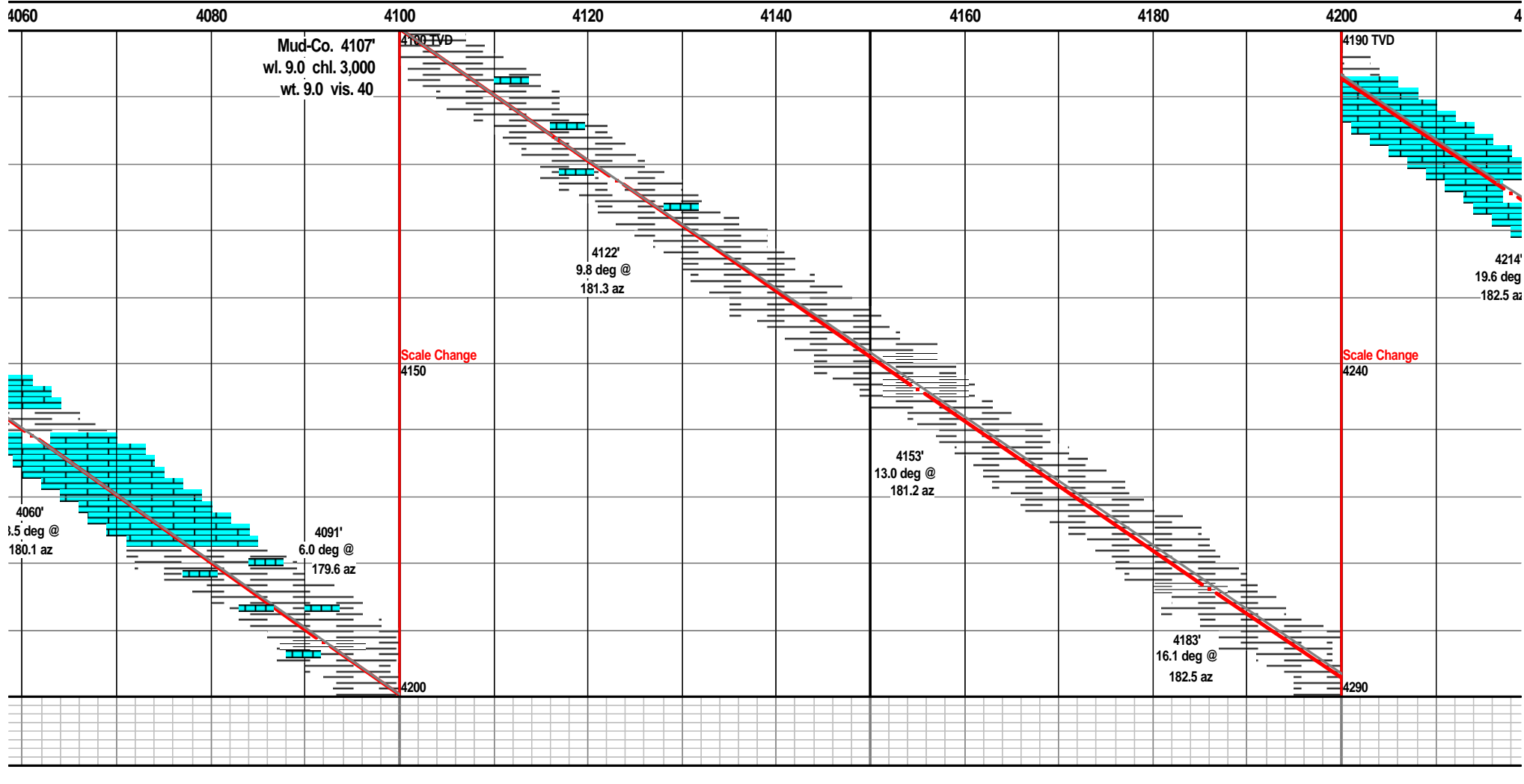
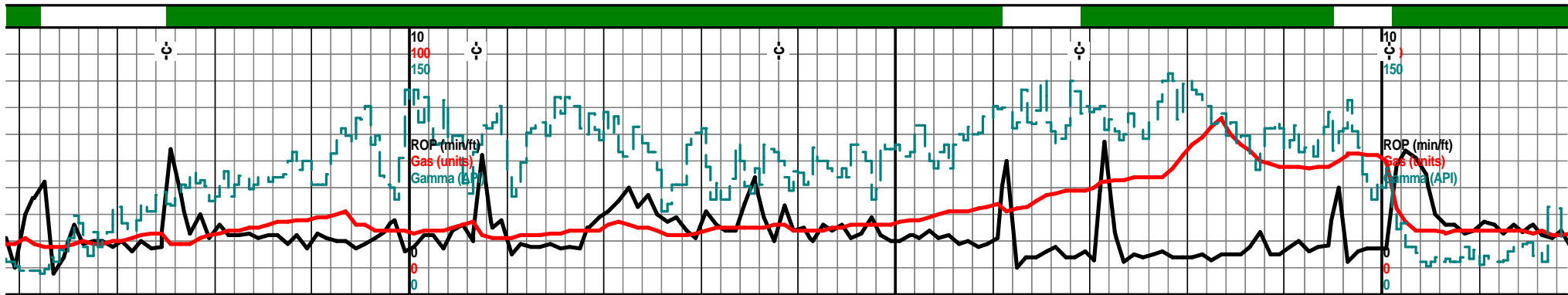
Scale Change
3850

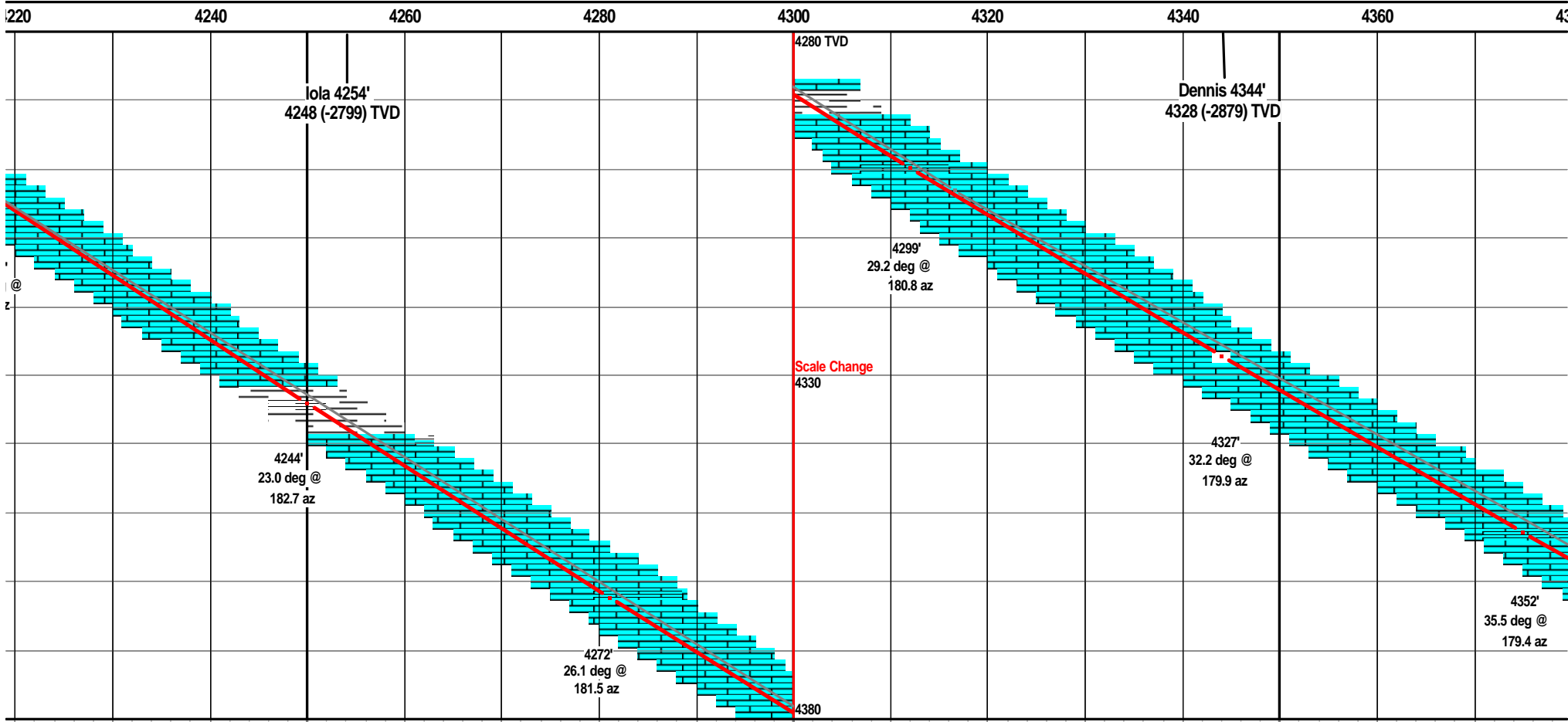
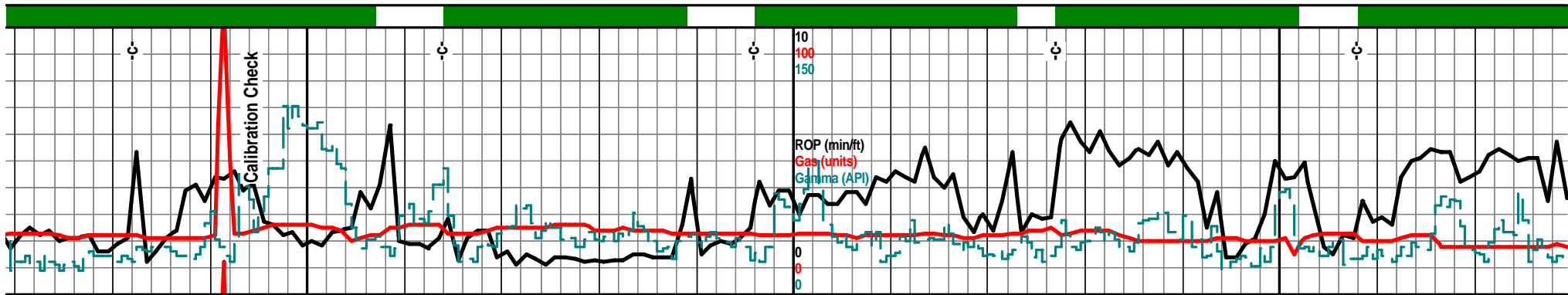
Mud Co. 3884'
wt. 9.4 vis. 48
wl. 9.0 chl. 2500

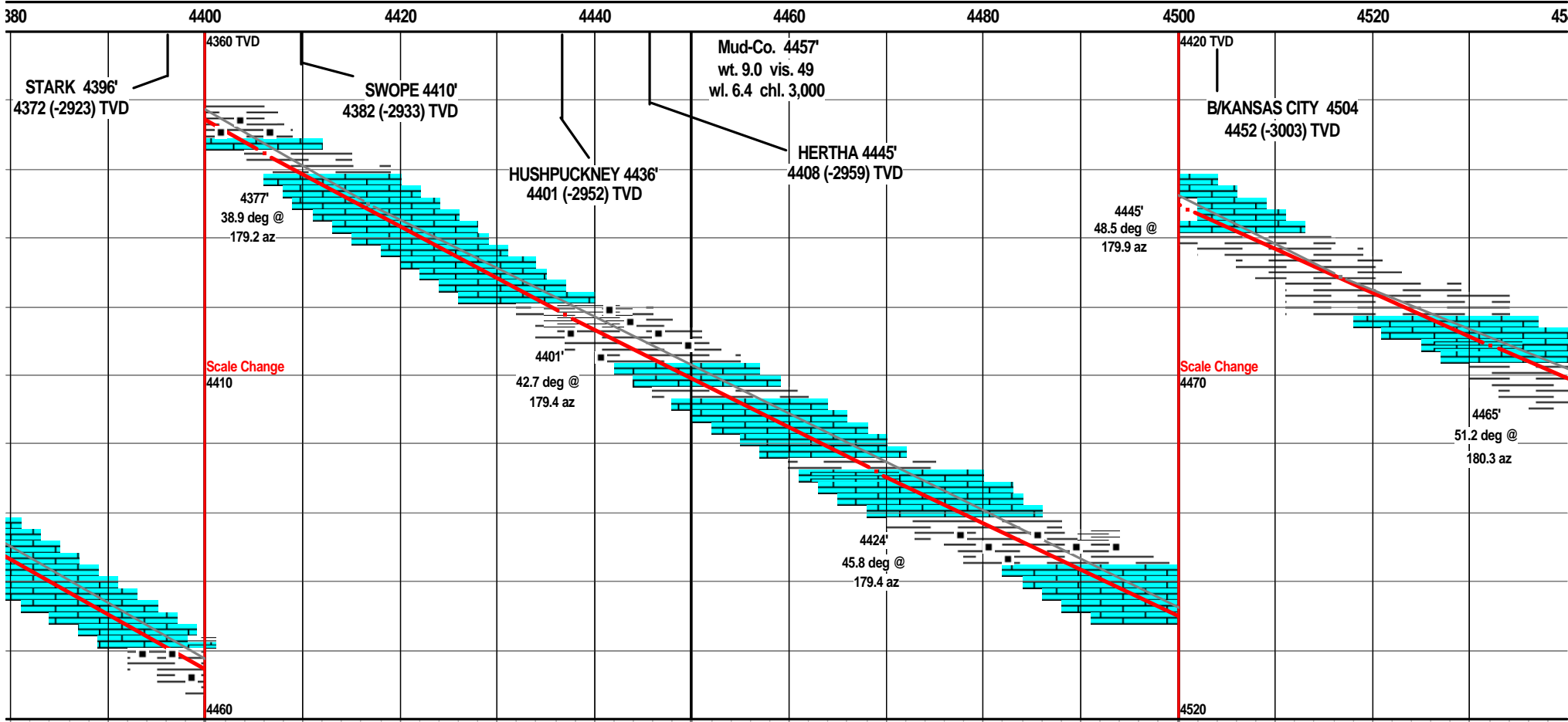
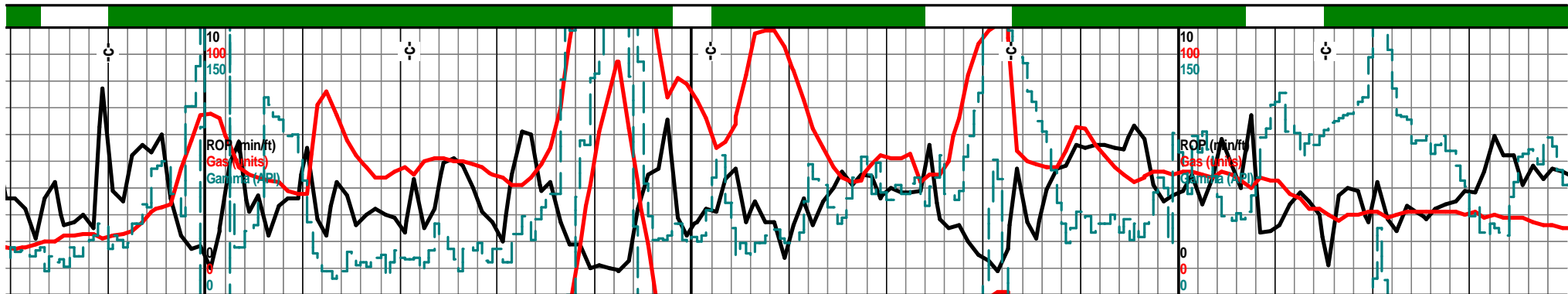
3900

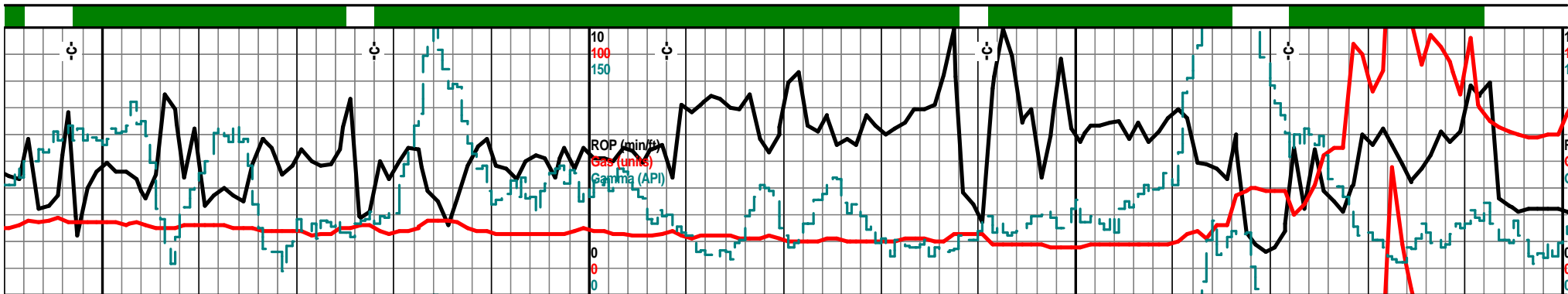
390
0.4 de
272.



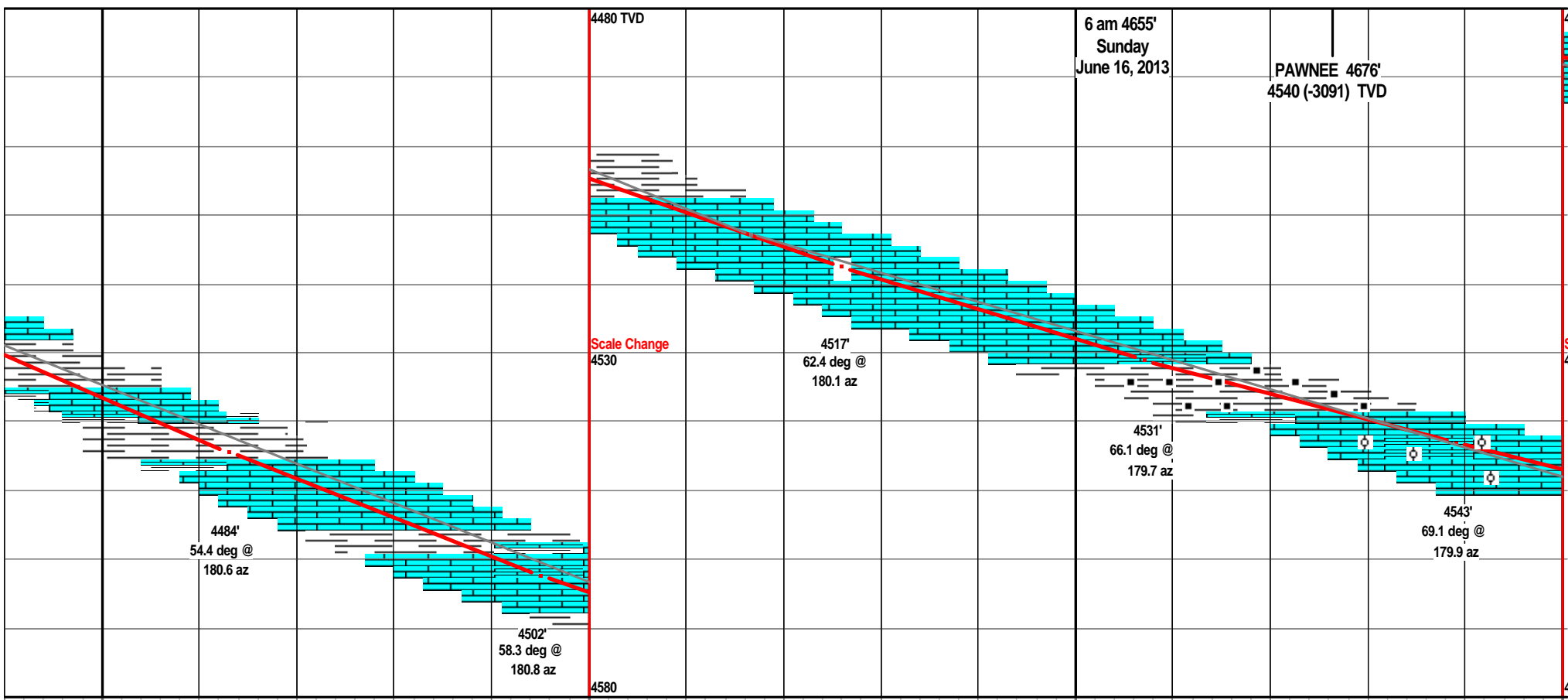


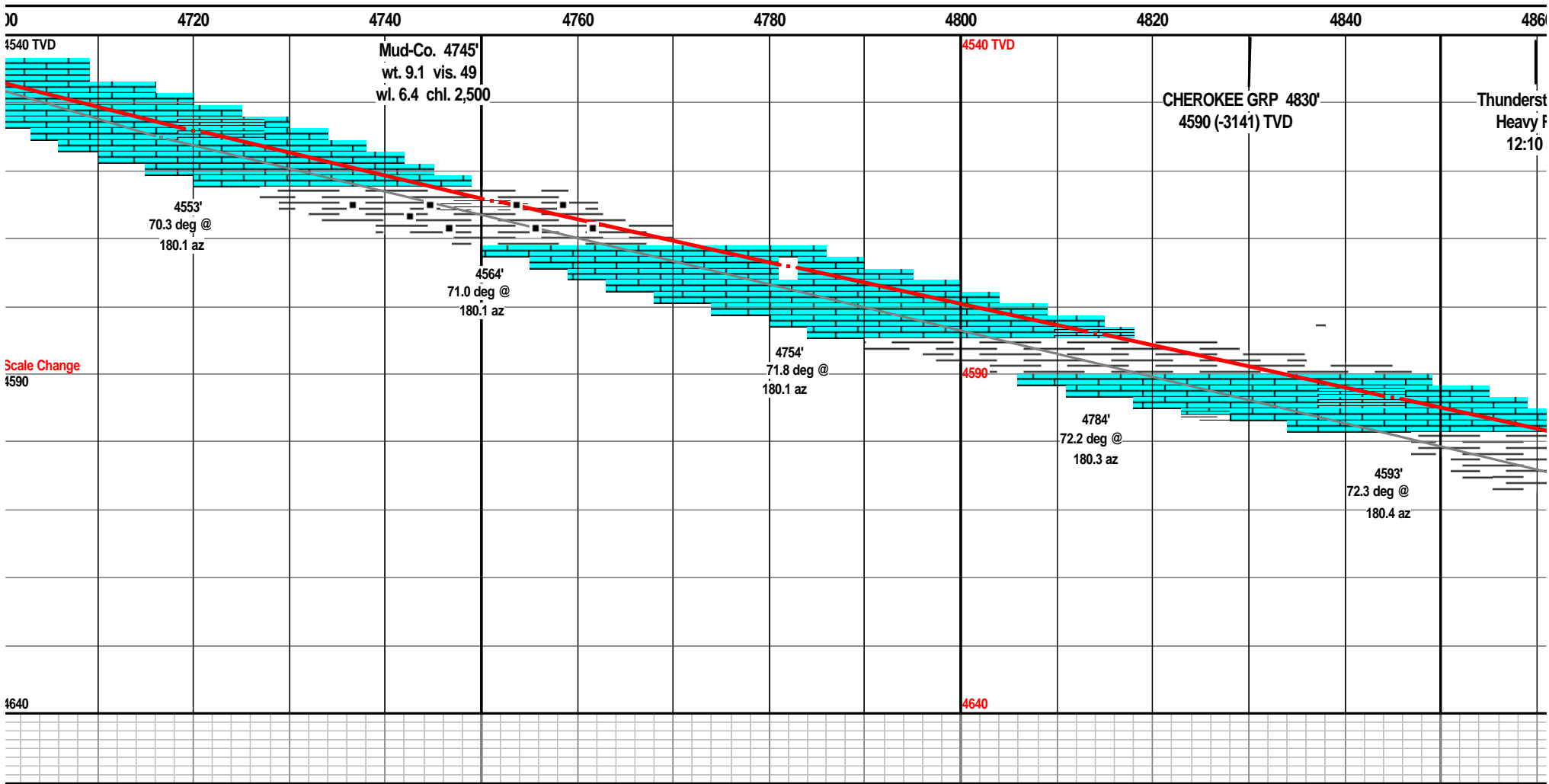
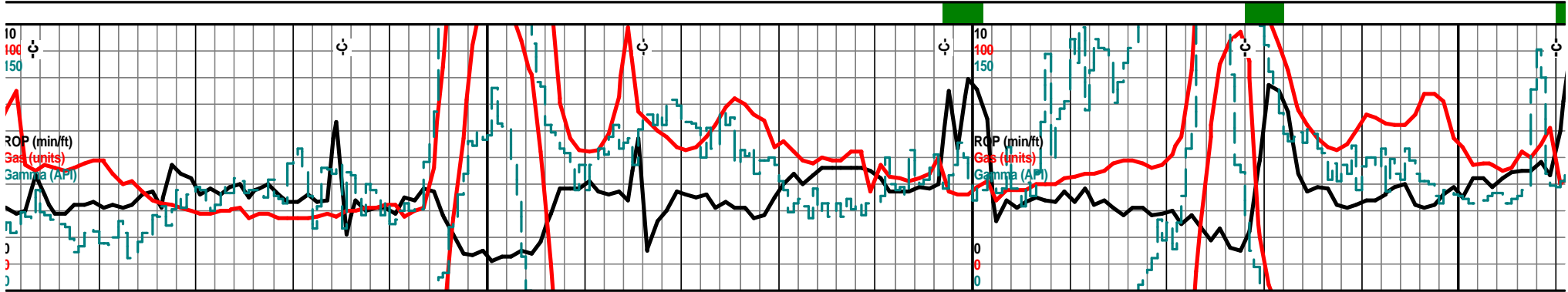


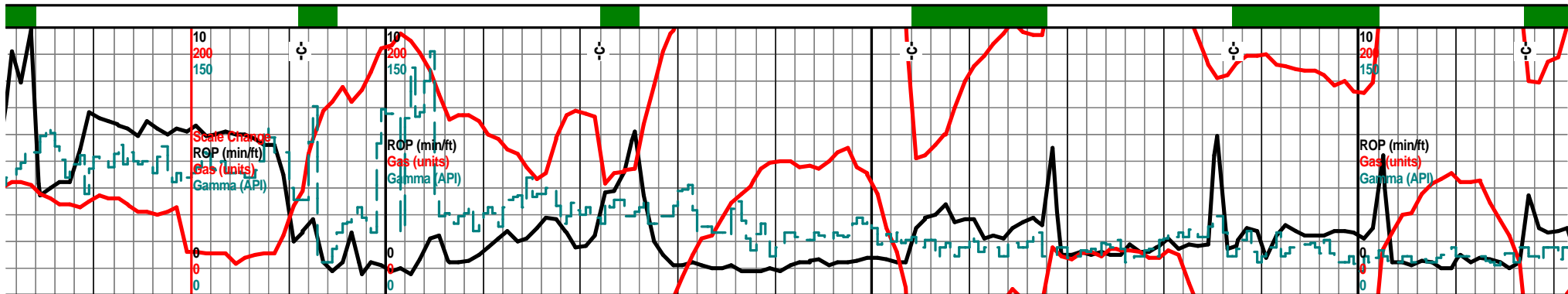




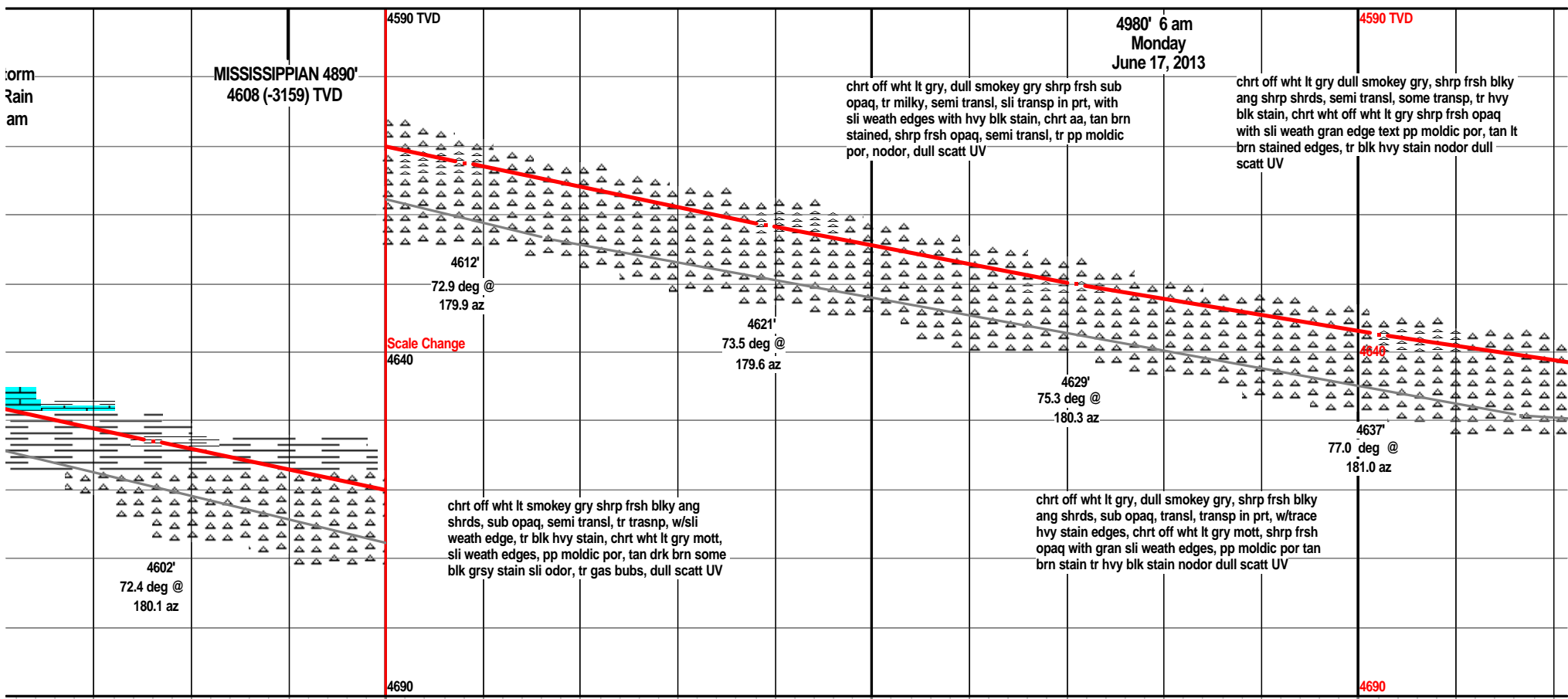
40 4560 4580 4600 4620 4640 4660 4680 4700

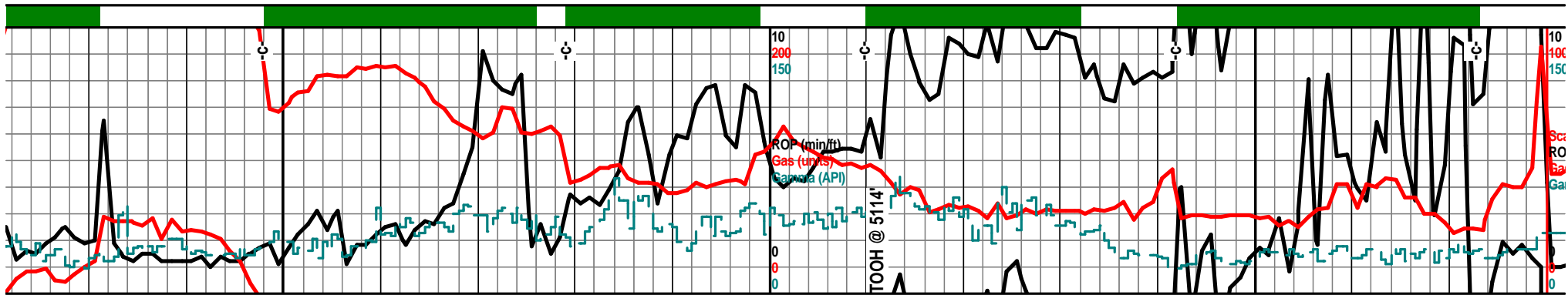






0 4880 4900 4920 4940 4960 4980 5000 5020





5040 5060 5080 5100 5120 5140 5160 5180

Mud-Co. 5080'
wt. 9.2 vis. 51
wl. 8.0 chl. 3,000

4610 TVD

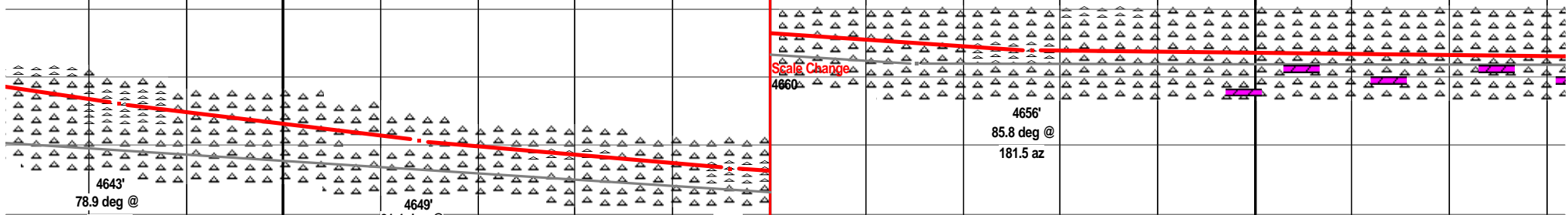
TOOH at 5114'
Downhole motor
shelled out

7" Casing De
5180'

chrt off wht, lt gry dull lt smokey gry shrp frsh semi opa, sli transl in prt, tr transp, blk ang shrp shrds, chrt off wht lt gry with tan lt brn stained sli weath gran text edges, tr hvy blk stain, vis gas bubs, nodor, live UV shows

chrt off wht lt gry, dull smokey gry shrp frsh opa blk ang shrds, semi transl, transp in prt. chrt tan off wht lt gry frsh blk ang with tr sli weath gran sli trip text edges, pp moldic por, tan brn stain, llive gas bubs, filmy SFO, nodor, tr blk hvy stain

chrt lt gry off wht lt milky opa color, shrp blk ang shrds, semi transl, some rare transp, chrt off wht lt gry shrp frsh opa with sli weath gran sli trip text edge, pp moldic edge por, drk tan lt brn edge stain, gas bubs, live UV, nodor

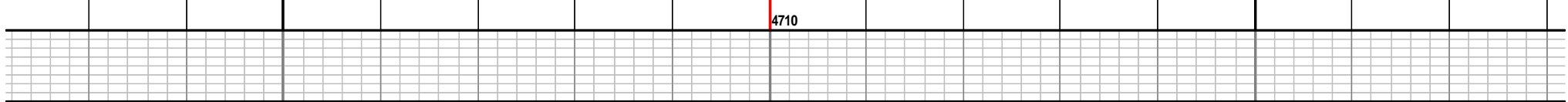


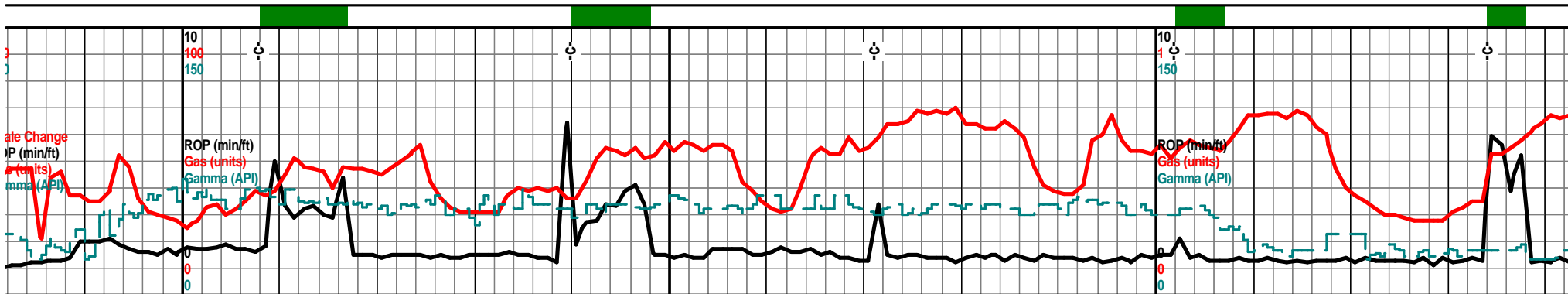
chrt off wht lt gry, lt dull smokey gry shrp frsh semi opa, sli transl, some transp, blk ang shrds, with tr sli weath edge text, hvy grsy stain, chrt lt gry smokey gry, shrp frsh with sli weath gran edges, pp moldic por, sli tan lt brn stain, vis gas bubs, nodor

chrt wht off wht lt smokey gry, shrp frsh opa, sub opa, semi transl, tr transp, with gran weath sli trip text edges, pp moldic por, pp por, tan brn stained edges, hvy blk stain, filmy SFO, gas bubs, live UV, nodor

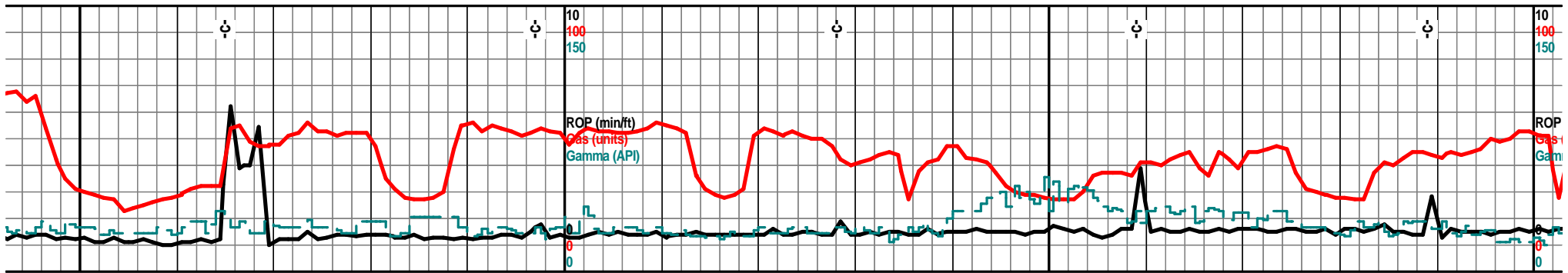
chrt off wht lt gry smokey, milky opa color, shrp frsh blk ang shrds, semi transl, some transp in prt, chrt off wht lt gry aa with sli weath gran edge text, pp moldic edge por, tan lt brn stain, gas bubs, scatt live UV, tr hvy blk stain

chrt off wht lt gry, gry wht mott, milky gry o shrp frsh opa, blk ang shrds, with chrt of gry, weath gran edge text, pp moldic edge, lt brn stained edges, tr gas bubs, tr hvy brn grsy stain, scatt live UV



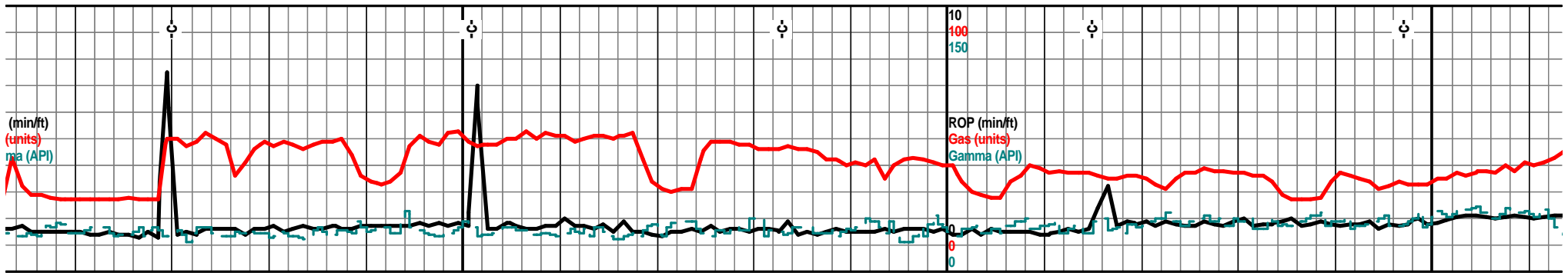


Depth (ft)	5200	5220	5240	5260	5280	5300	5320	5340
Depth	4610 TVD			5265' 6 am Friday June 21, 2013		@	4610 TVD	
Description	chrt off with lt gry, milky smokey color, shrp blk ang semi transl, with weath gran vry sli trip text edges, tan brn stain, tr hvy brn stain, gas bubs, dolo chrt dolo crm off wht lt gry/green f vf xln gran soft sub chlky, pp inter xln por, tan drk tan brn stain, chrt inclu, dull scatt UV			chrt lt gry lt smokey gry, shrp frsh opaq transl, mstly transp, with weath gran trip text edges, pp moldic por, tan brn blk stain tr hv stain, gas bubs, dull UV, with off wht lt gry green dolo edge, inter xln por, tan brn blk stain, blk SFO, nodor			chrt off wht lt gry lt smokey gry, shrp frsh semi-transl, mstly transp, with weath gran : text edges, pp moldic por, tan brn to blk st hvy brn SFO, sli odor, tr gas bubs, dull UV, some dolo off wht lt gry/green f vf xln gran sub chlky, chrt with chrt inclu aa	
Log Symbols	[Log symbols: triangles, red lines, purple lines]							
Wellbore Data	4657' 180.4 az 92.4 deg @	4656' 91.3 deg @ 181.0 az	4656' 89.3 deg @ 180.6 az	4656' 88.9 deg @ 180.6 az	4657' 88.7 deg @ 180.4 az			
Notes			dolo crm off wht lt gry green, vf xln gran soft silty gritty in prt, with lt gry frsh shrp opaq blk ang chrt inclu, tr weath gran edge, pp moldic por, stain drk hvy stain along chrt/dolo contact, chrt lt smokey gry shrp frsh blk opa, with sli weath gran sli trip text edge, pp moldic por, stain, gas bubs		dolo off wht lt gry/green f vf xln gran soft blkly fnly sucrc pcs, chrt in prt, chrt lt gry lt smokey gry, shrp frsh opaq semi transl, mstly transp, with weath gran sli trip text edges, pp moldic por, drk brn blk stained on edge, hvy blk SFO, gas bubs, scatt dull UV			
Bottom	4710					4710		



5360 5380 5400 5420 5440 5460 5480 5500

			4610 TVD						4610
opaq, sli trip ain, , with dns		chrt lt gry lt smokey gry to tan brn mott, frsh opaq gran, with weath gran sli trip text pp moldic por, tan brn stain, drk hvy SFO, gas bubs, sli odor, dolo crm off wht lt gry green f vf xln gran soft sub chlky stain drk grsy stain drk SFO				dolo pff wt ;t gry/greenish, f vf xln gran blk dns tr glau, pp inter xln por, drk tan brn stain, tr blk stain, chrt off wht lt gry to clr, opaq transp in prt, weath gran sli trip edge, pp moldic por, brn blk stain, tr hvy blk stain, odor? tr gas bubs dull scatt UV			dolo wht text, glau, in prt w/lt inclu, chr transl, so tan brn bl
4657' 89.1 deg @ 180.8 az		4658' 90.0 deg @ 180.3 az		4658' 90.2 deg @ 180.8 az		4657' 90.2 deg @ 180.8 az		4657' 89.9 deg @ 180.8 az	90
chrt off wht lt gry lt gry smokey with tan brn mott, shrp frsh opaq, semi transl, mstly transp, blk ang shrds with weath gran sli trip text edges, pp moldic por, tan brn stain, drk grsy SFO, gas bubs, dolo wht off wht lt green f vf xln dns blk ang soft sub chlky, tr glau, some chrty, chrty inclu, tan brn stain, drk SFO/brkn			chrt lt gry off wht lt smokey with tan drk brn mott weath sli trip gran edges, pp moldic por, tan brn drk brn hvy stain, dolo off wht lt gry green f vf xln blk ang sub chlky tr glau, pp interxln por tan brn stain, drk brn stain					dolo off wht lt gry green f vf xln dns blk agran sub chlky tr glau, some pp inter xln por, tr drk stain, chrt off wht lt gry some transp, opaq shrp ang blk pcs, with sli weath gran sli trip edges, tan brn some blk stain, tr gas bubs, scatt dull UV	
			4710						4710



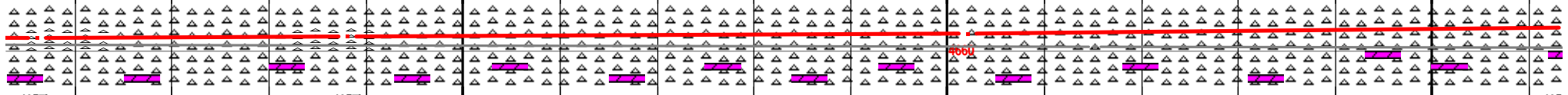
5520 5540 5560 5580 5600 5620 5640 5660

TVD 4610 TVD

off wht lt gry green, f vf xln gritty sndy , pp inter xln por, drk tan brn stain, chrty gry lt smokey gry shrp sli weath chrt t off wht lt gry shrp frsh opa, semi me transp, sli gran sli trip weath edges, lk stain, odor? tr gas bubs, dull scatt UV

dolo crm tan brn mott, f vf xln gran blkly ang soft sub chky, pp inter xln por, tan brn stain, gas bubs, chrt off wht lt gry lt smokey gry with dolo aa edges, tan brn stain, drk hvy stain, gas bubs, scatt dull UV,

dolo wht off wht lt green/gry f vf xln gran girty sndy, tr glau, chrty, dolo aa with chrt, off wht lt gry shrp frsh opa semi transl, mstly transp, with weath gran sli trip text edges, pp moldic por, tan brn stain, tr hvy brn/blk stain, sli odor, gas bubs/brkn dull scatt UV



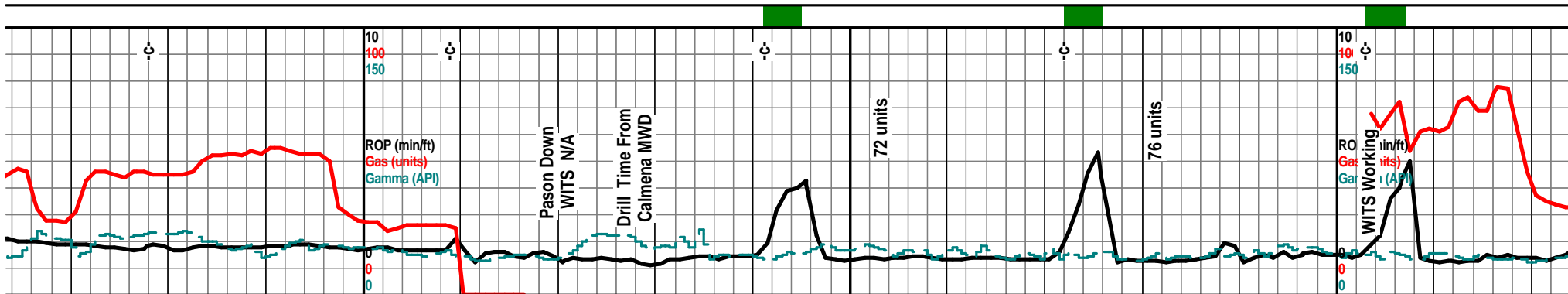
4657' 1.0 deg @ 180.6 az 4657' 90.3 deg @ 180.6 az 4657' 90.5 deg @ 181.0 az 465' 91.10 de 180.80

incr chrt wht off wht lt gry with tan brn mott weath gran sli trip edges, tan brn stain, gas bubs, drk brn SFO/brkn, scatt UV, dolo off wht lt gry/green f vf xln gran sndy gritty text, chrty in prt, dolo aa with sli weath chrt inclu, sho/stain along chrt dolo contact, odor in all?

chrt off wht lt gry lt smokey gry shrp frsh opa semi transp in some, with tan brn stained sli weath gran slit trip edges, pp moldic por, tan brn staine, filmy SFO, sli odor, dolo crm off wht lt gry, greenish, f xln gran sndy text, with chrt aa inclu, show/stain along dolo/ chrt contact, sli odor, brn hvy stain, scatt dull UV

5660' not retrieved

4710



5680 5700 5720 5740 5760 5780 5800 5820

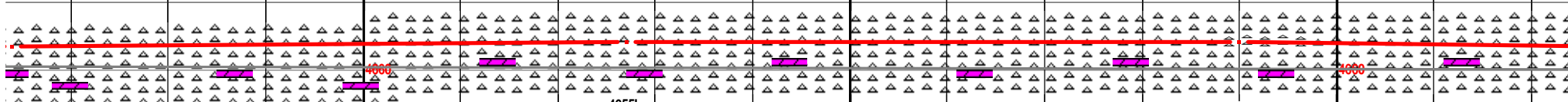
4610 TVD 5730' 6 am Saturday June 22, 2013 4610 TVD

dolo off wht lt crm, lt greenish tint, f vf xln gran soft sub chlky, gritty sndy text, glau, tan brn stained mott in prt, pp inter xln por, chrt inclu, lt gry to clr transp with sli weath sli trip text, pp moldic por, tan brn some drk blk hvy stain, tr gas bubs, dull scat UV

chrt lt gry lt smokey gry and tan brn mott, shrp frsh gry with tan brn stained sli weath, sli trip text edges, pp moldic por, drk SFO, gas bubs, dolo crm lt gry/green f vf xln sndy gritty text tan brn stain, chrt with chrt aa inclu

chrt lt gry, lt smokey gry, some off wht, shrp l opa semi transl, some transp, blk ang pcs, tan brn stained weath sli trip gran text edges, moldic por, tan brn stain, VSSFO/brkn, gas bl dolo crm lt gry green f vf xln gran gritty sndy chrt, with chrt inclu aa, tan brn stain, tr hvy SFO

chrt lt gry, lt smokey gry, some off wht, shrp l opa semi transl, some transp, blk ang pcs, tan brn stained weath sli trip gran text edges, moldic por, tan brn stain, VSSFO/brkn, gas bl dolo crm lt gry green f vf xln gran gritty sndy chrt, with chrt inclu aa, tan brn stain, tr hvy SFO



6' g @ az

4655' 90.0 deg @ 180.6 az

4655' 90.0 deg @ 180.8 az

4655' 90.0 deg @ 180.8 az

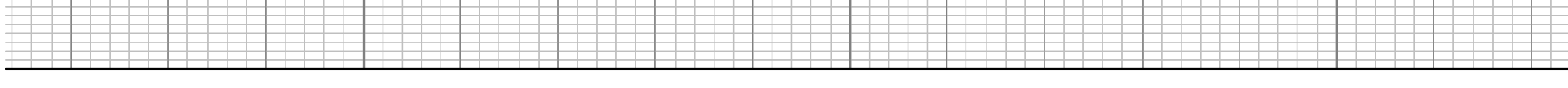
chrt lt gry vry lt smokey gry, shrp frsh opa, semit transl, mstly transp, bhk blk and shrds, dolo and chrt dolo, off wht lt gry/green f vf xln gran blk ang some sndy gritty pcs, pp moldic por, tan brn stain hvy SFO, sli odor, gas bubs

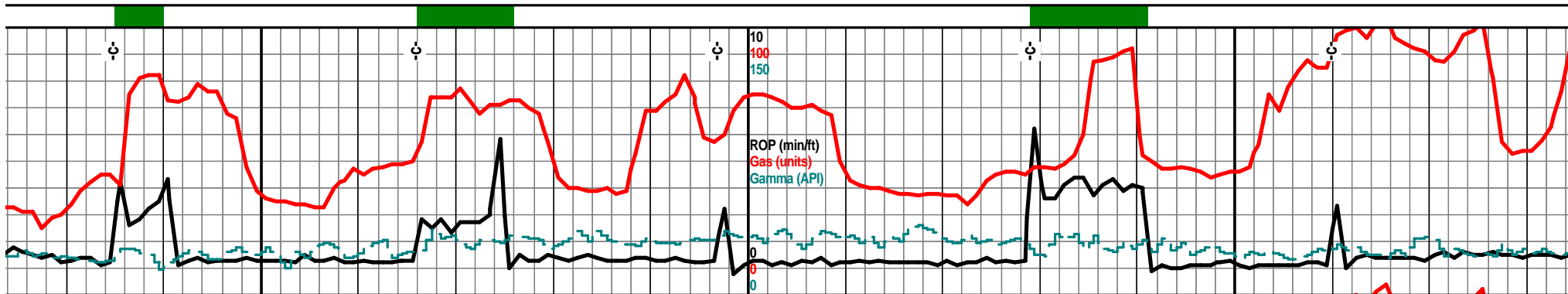
chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrt dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrt dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

chrt off wht lt gry, 1st smokey gry with tan brn stained sli weath sli trip text edges/sides, pp moldic por, pp por, tan brn stain, tr hvy blk stain, gas bubs, chrt dolo, off wht lt gry/green f vf xln with chrt inclu aa, stain drk stain

Mud-Co. 5729' wt. 8.4 vis. 27 w/ N/C chl. 1,100





5840 5860 5880 5900 5920 5940 5960 5980

frsh, with pp ubs, text, grsy

chrt off wht lt gry lt smokey gry, shrp frsh opa, semi trnls, some transp, with tan brn stained sli gran weath sli trip edge text, pp moldic por, drk brn SFO/brkn, tr gas bubs, chrty dolo off wh lt gry green vf xln gran gritty snyd chrt inclu aa, sli odor??

chrt off wht lt gry lt smokey gry, shrp frsh opa, with tan brn stained sli weath sli trip text edges, tan brn stain, drk SFO on brk, dolo tan brn mott f v fxl gran snyd gritty, chrty with tan brn stained weath chrt inclu, tan brn stain, dolo off wht lt gry/greenish, f vf xln gran gritty snyd tr glau, chert inclu NS

chrt off wt semi transp, dolo drk SFO, chrty sli stain, tan



4656' 88.3 deg @ 181.0 az

4657' 89.9 deg @ 180.8 az

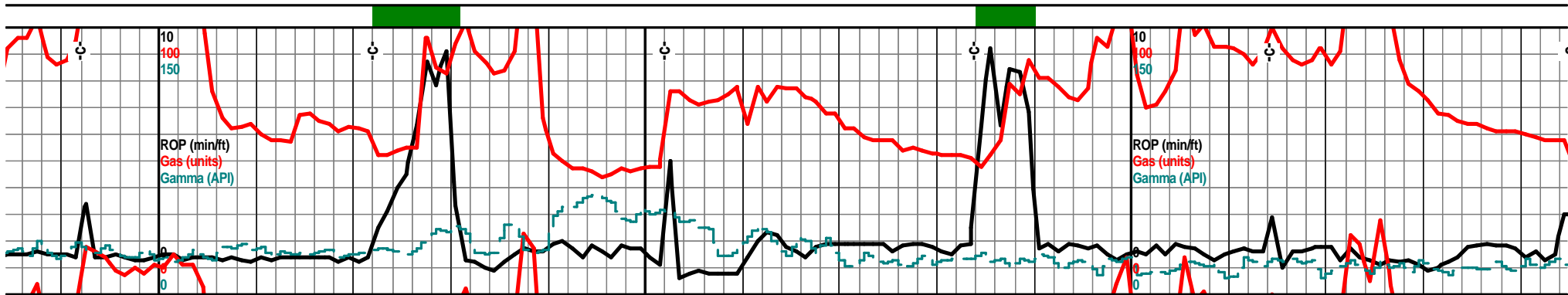
4657' 90.2 deg @ 180.6 az

chrt off wht lt gry lt smokey gry shrp frsh with tan brn mott stained weath sli trip text edges, tan brn stain, SFO on brk, gas bubs, sli odor, some dolo off wht lt gry green, vf xln gran snyd gritty, chrty with chrt inclu aa, chrty dolo, spls more chrt less dolo!

chrt off wht lt gry shrp frsh opa semi trnls, some tansp, shrp opa shrds, with tan brn colored gran sli weath sli trip text edges, tan brn stain drk brn SFO when brkn, gas bubs dull scatt UV, dolo, chrty dolo as before,

chrt off wht lt gry lt gry smokey shrp frsh opa, semi transl some transp, with weath gran sli trip dolomitic edge, tan brn stain, drk SFO, gas bubs, tr filmy SFO on spl water, dolo off wht lt gry green chrty, f xln gran snyd text, with weath sli trip text chrt inclu, tan brn stain, brn SFO, sli odor

4710



6000 6020 6040 6060 6080 6100 6120 6140

4610 TVD 4610 TVD 6 am 6145 Sunday, Jun

ht lt gry lt smokey gry, shrp frsh opa, sl, some transp, with weath gran sli trip edges, pp moldic por, tan brn stained, gas bubs, chrty dolo off wht f vf xln glau with sli weath sli trip chrt inclu, brn SFO, gas bubs dull scatt UV

big incr chrt lt gry lt smokey gry, shrp frsh opa, semi transl, mstly transp, shrp blk ang shrds, with some with sli weath gran trip text edge, tr stain, tan brn drkr stain, pp moldic por, tr gas bubs/brkn, dolo off wht lt gry green f vf xln blk ang dns sub chiky chrty with chrt inclu aa

chrt off wht lt gry dull gry/tan shrp frsh opa semi transl, mstly transp, blk ang shrp shrds, tr edge stain, nodor, NSFO, dull scatt UV



4657
91.0 deg @
179.9 az

4656
89.6 deg @
180.8 az

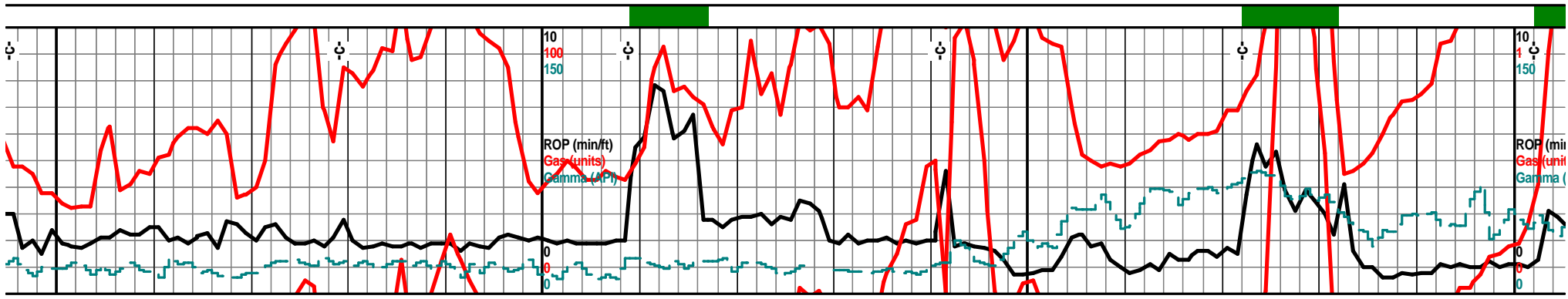
dolo wht off wht lt gry, green/gry f vf xln gran gritty sndy, tr glau, chrty, chrt off wht lt gry lt smokey gry shrp frsh, shrp opa, semi transl, dolomitic edges, tan brn stain, drk hvy stain, sli odor, gas bubs, brn SFO on brk.

chrt lt gry lt smokey gry, shrp frsh ang blk shrds, semi transl, mstly transp, vit, with sli weath, gran sli trip text edges, some pp moldic por, tan brn edge stain, tr gas bubs, scatt dull UV, 85% frsh-no show

chrt off wht lt gry milky gry, st transl, mstly transp, shrp blk gran edge, mstly frsh, tr edge some dolo wht off wht lt gry g sndy text, tr glau, tr chrty with inclu.

4710

4710



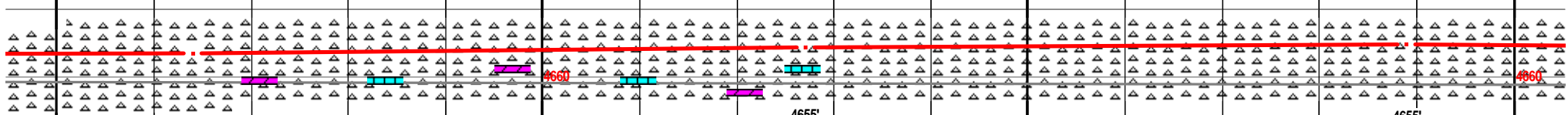
6160 6180 6200 6220 6240 6260 6280 6300

Bit Trip June 23, 2013 4610 TVD 6300' 7 am Mon June 24, 2013

chrt off wht lt gry shrp frsh, blk ang shrds, semi transl, mstly transp, with tr sli weath, gran vry sli trip text, pp moldic, some vis frac por, nodor, scatt dull UV

chrt off wht lt gry smokey gry, shrp frsh opa semi transl, some transp, blk ang shrds, with weath sli trip, some gran text, pp moldic por, tan brn stain along edge, w/chrt lst drk tan brn mott (fizz w/acid) f xln sub chlky with gry/smokey gry shrp chrt inclu with sli gran, sli weath chrt inclu AA

chrt lt gry vry lt smokey gry, off wht, shrpblk shrds, semi transl, mstly all transp. with some weath sli trip edge text, drk brn stain, drk brn SFO, tr gas bubs, dull UV, odor,



4656' 90.8 deg @ 182.5 az

4655' 91.1 deg @ 182.7 az

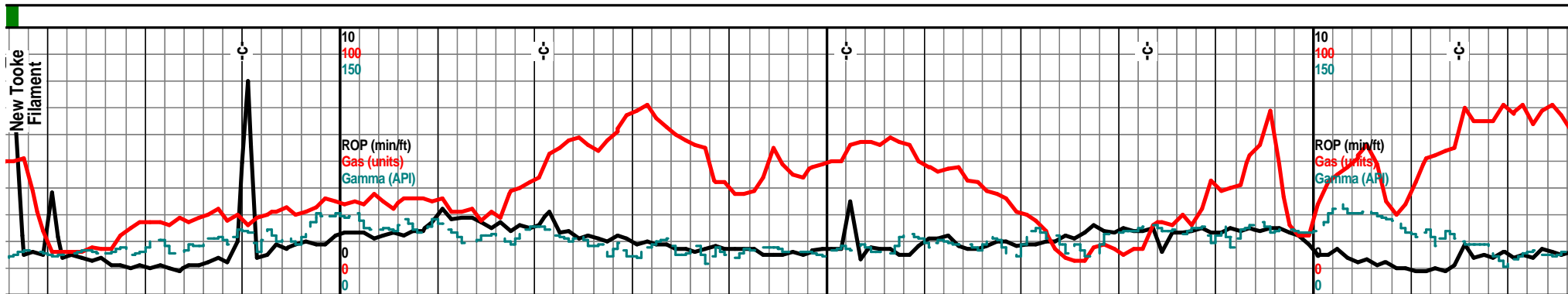
4655' 89.4 deg @ 181.8 az

vrp frsh opa, semi ang shrds, tr weath stain dull scatt UV, reen f vf xln gran lt gry frsh chrt

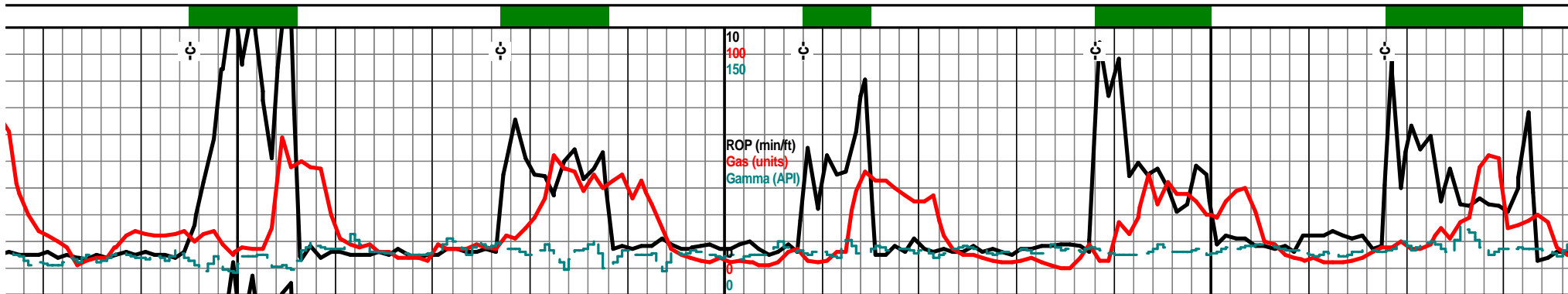
chrt off wht lt gry, lt smokey gry shrp frsh opa, semi transl, mstly transp, with sli weath, gran sli trip text edge, pp moldic por, some vis frac por, tan brn stain along weath edge, pp moldic por, tr hvly brn stain, nodor, dull scatt UV

chrt off wht lt gry, lt smokey gry, shrp frsh blk ang shrds, semi transl, some transp, dolo/lst tan brn mott (acid+) f xln sub chlky with lt gry smokey gry weath sli gran some sli trip text chrt inclu, pp moldic por, tan brn stain, VSSFO/brkn, tr gas bubs, nodor, dull scatt UV

4710 4710



6480	6500	6520	6540	6560	6580	6600	6620
	4610 TVD					4610 TVD	
<p>wht milky/smokey color, shrp frsh istly transp, shrp blk opa shrds, brn stained sli trip text weath edges, drk brn stain, VSS drk brn oil, att UV, incr chrt dolo, off wht lt xln dns hrd chrt glau</p>		<p>dolo crm off wht lt greenish, f vf xln dns hrd blk, ang pcs, glau, chrt in prt, dolo chrt, chrt lt smokey gry shrp frsh opa shrds, semi transl, alot transp, with sli tr tan drk brn some blk stained weath sli trip text edges, pp moldic por, sppls mstly dolo aa</p>			<p>dolo, chrt dolo, wht off wht f vf xln, sndy gritty text, tr glau, pp inter xln por, tan brn stain, filmy SFO, floaters, chrt lt gry shrp frsh opa, semi transl, mstly shrp frsh transp,</p>		
	4660					4660	
<p>4656' 91.0 deg @ 180.8 az</p>			<p>4655' 90.8 deg @ 181.5 az</p>			<p>4656' 87.3 deg @ 181.5 az</p>	
		<p>chrt off wht lt gry, milky/smokey gry, shrp frsy semi transl, mstly transp, blk ang shrp shrds, some with drk brn staid sli weath vsli trip text edges, tan brn stain tr gas bubs, chrt dolo crm lt green tint, f vf xln blk ang hrd dns pcs, glau, chrt in clutiona NS</p>		<p>dolo crm tan off wht with tan lt brn mott in prt, f vf xln gran sndy gritty tr glau, pp inter xln por, tan lt brn stain, SSFO/brkn, chrt lt smokey gry, shrp frsh opa, transp, shrp blk ang shrds NC in Chrt</p>		<p>chrt lt med gry, smokey gry, sh tan brn weath sli dolo sli trip te stained edges, pp moldic por, c dull scatt UV, dolo off wht lt gry gran sndy gritty chrt with chrt</p>	
	4710					4710	



6640 6660 6680 6700 6720 6740 6760 6780

4610 TVD

6760' 7 am Tuesday
June 25, 2013

dolo chrty dolo, tan drk brn f sli med xln gran blk ang pcs, pp inter xln por, tn brn stain, drk brn SFO, filmy SFO/brkn, gas bubs, gd even UV, sli odor, chrt lt gry shrp frsh opa transp, shrp blk ang shrds, tr drk brn weath edge, spl 90% chrty dolo

chrt lt gry off wht and wht, shrp frsh opa, semi transl, some transp, shrp blk ang shrds, tr weath text with drk brn stain, dolo, chrty dolo f sli med xln with drk tan mstly brn/drk crm mott color, pp & inter xln por, drk tan to brn stain, drk SFO on brk, tr gas bubs, scatt dull UV,

chrt off wht, lt blue/gry, some smokey, shrp frsh opa transl, some transp, some with drk tan brn off wht mott f xln dolo edge, pp moldic inter xln por, drk tan brn stain, drk SFO on brk, gas bubs, dull scatt UV, dolo drk tan brn f vf xln gran, gritty tr glau, inter xln por, drk tan brn stain, drk SFO on brk tr gas bubs dull UV



4658'
88.7 deg @
182.0 az

4660'
88.3 deg @
181.7 az

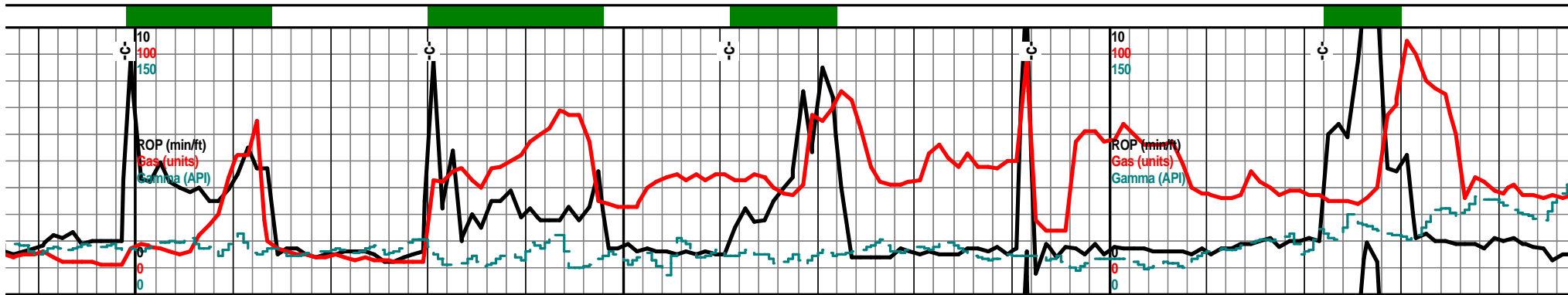
4662'
87.9 deg @
181.7 az

rp frsh opa with xt edges, tan brn trk SFO, sli odor, / greenish, f vf xln inclu

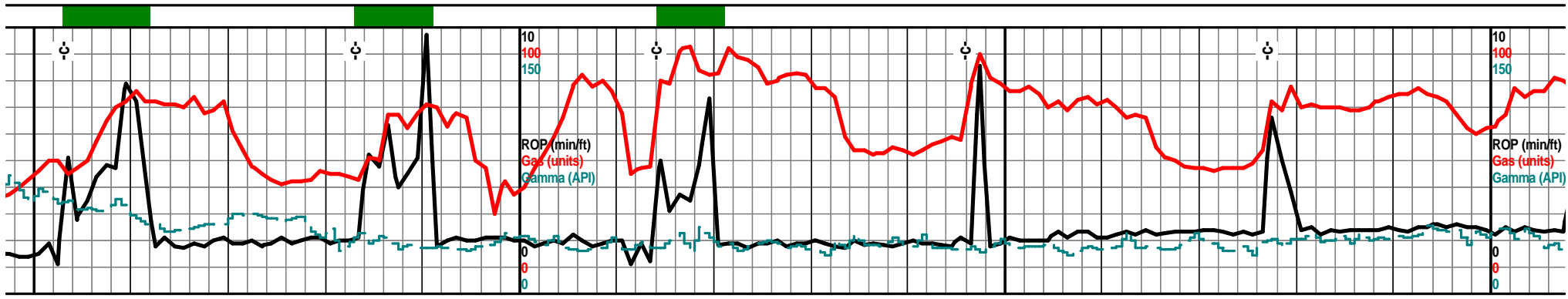
chrt wht, off wht, lt smokey gry, shrp frsh opa, transl, some transp, blk ang shrp shrds, dolo and chrty dolo, tan brn drk brn mott, f sli med xln, gran, blk ang pcs, pp inter xln por, drk tan/brn stain, drk SFO on brk, gas bubs

chrt sli blue/gry, some smokey gry frsh shrp opa with drk tan brn off wht mott f sli med xln dolo, pp moldic por, inter xln por, gran, tr glau, gd drk tan brn stain, drk brn SFO on brk, filmy SFO on brk, odor fair scatt dull UV

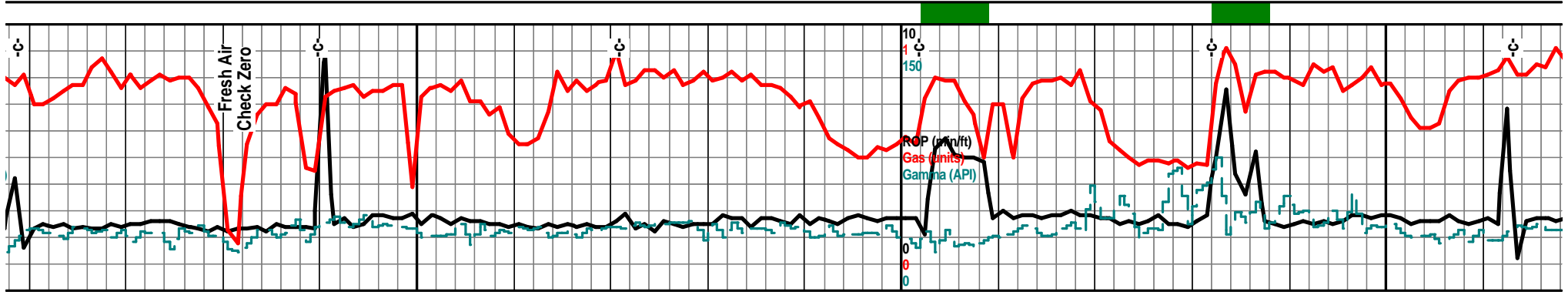
4710



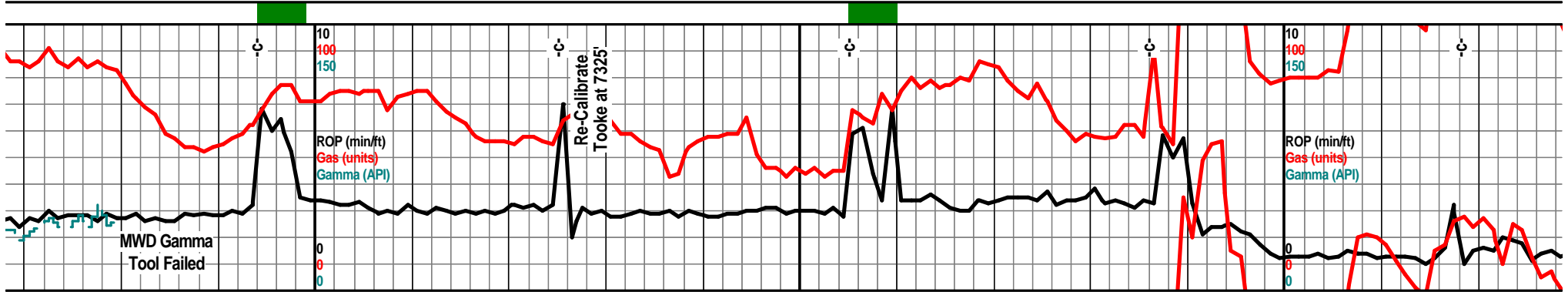
6800	6820	6840	6860	6880	6900	6920	6940	
4610 TVD	Bit Trip 6830'				4610 TVD	6920' 6 am Wednesday June 26, 2013		
	chrt off with lt gry smokey, tr blue gry shrp frsh opa, with tan drk brn wht mott f xln dolo edge, pp moldic, inter xln por, mstly tite dns, drk SFO on brk, tan drk tan brn stain odor? scatt dull UV, dolo tn brn gry brn f vf xln blkly ang dns gran tan drk brn stain,			chrt lt gry, lt milky smoke color, blue gry shrp frsh opa, some transp, with drk tan brn wht mott f xln dolo edge, pp moldic por, drk tan brn stain, drk SFO, filmy SFO, gas bubs odor,		chrt off wht lt gry vry lt milky/sm frsh opa, semi transl, mstly tran shrds, tr with tan drk brn gran dc stain, grsy hvy SFO, dolo lt gry g hrd blkly sub chlky glau, mixed t everything		
4660'	4663'	4662'	4661'	4658'	4656'			
	89.2 deg @ 181.5 az	92.1 deg @ 181.5 az	94.3 deg @ 182.0 az	94.3 deg @ 182.2 az	93.2 deg @ 181.3 az			
chrt off wht lt gry shrp frsh opa semi transl, some transp, with drk crm tan brn mott weath dolo edges, tan brn stain, pp moldic por, inter xln por, tan drk brn stain, odor, drk brn SFO on brk, scatt dull UV,		chrt off wht lt gry smokey color, shrp frsh opa, with tan drk tan brn off wht mott f xln edge, pp moldic por, inter xln por, dns tite, drk brn stain, filmy SFO, floating droplets, scat dull UV, odor,		chrt off wht lt gry shrp frsh blkly ang shrds, semi transl, mstly all transp, some with drk tan brn f vf xln dolo edge, pp moldic por, brn stain, scatt UV, dolo lt gry green vf xln dns hrd pyritic, blkly sub chlky pcs, glau in most				
	Mud-Co. 6830' wt. 8.5 vis. 30 wl. N/C chl. 950							
4710					4710			



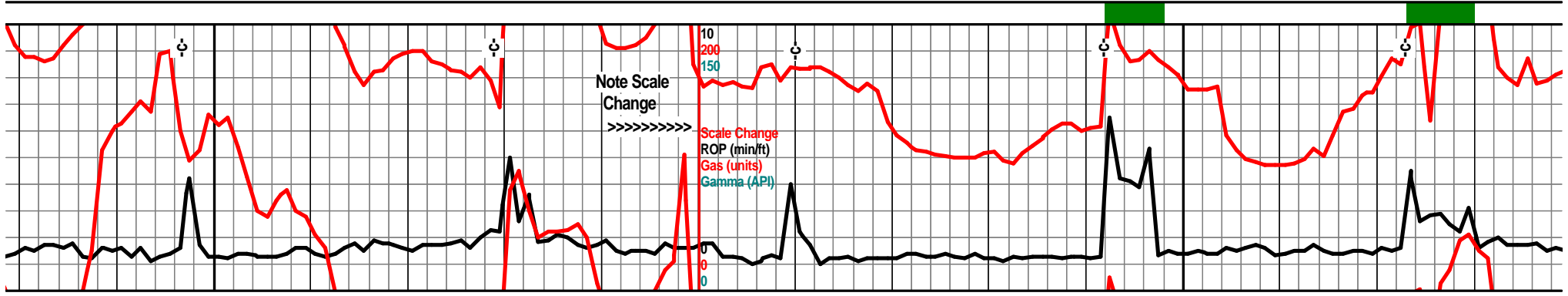
6960	6980	7000	7020	7040	7060	7080	7100
		4610 TVD					4610 TVD
okey gry, shrp isp, blk ang dolo edge, tan brn reen, f vf xln dns rag spl, has		chrt off whtlt gry lt milky smokey gry, shrp frsh opaq, semi transl, mstly transp, blk ang shrp shrds, tr weath gran tan drk brn stained dolo edges, pp moldic por, por, tan brn stain, tr hvy blk stain SSFO, tr gas bubs, filmy SFO, nodor			chrt off wht lt gry lt smokey color, shrp frsh blk ang shrds, semi transl, mstly transp, chrt wht tan brn mott gran sli weath text, tan brn stained, pp moldic por, nodor, scatt UV, dolo gry mstly green f vf xln dns hrd gran gritty, glau with chrt inclu aa		
		4650					4660
	4655' 91.8 deg @ 181.3 az	4654' 90.6 deg @ 181.0 az		4655' 88.8 deg @ 180.8 az		4655' 88.8 deg @ 181.0 az	4656' 88.8 deg @ 180.3 az
	chrt off wht lt gry, lt milky smokey gry, shrp frsh opaq, semi transl, mstly transp, blk ang shrp shrds, tr with weath gran tan drk brn stained dolo edges, pp moldic por, tan brn stain tr hvy blk SFO, tr gas bub dull scatt UV nodor		chrt lt gry lst smokey gry shrp frsh opa, semi transl, mstly transp, blk ang shrp shrds, with sli weath gran sli trip text tan brn mott edges, pp moldic por, drk tan brn stain, filmy SFO on brk, sli odor?, dull scatt UV			chrt off wht lt gry lt smokey gry shrp frsh opa semi transl, some transp, with tan brn crm mott weath sli trip text edges, pp moldic por, tan brn stain, tr gas scat dull UV, lst/dolo wht off wht lt gry green, f vf xln gran gritty, sub chikky, chrt, glau, some soft	
	Mud-Co. 6990' wt. 8.5 vis. 31 wl. N/C chl. 900						
		4710					4710



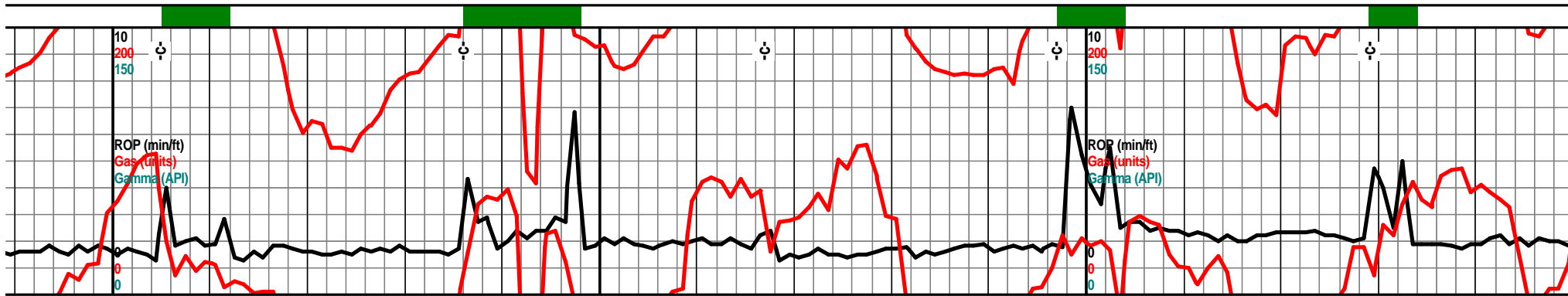
7120	7140	7160	7180	7200	7220	7240	7260
				4610 TVD			
chrt off wht lt gry, lt smokey gry shrp frsh blk ang shrds, seimi transl, some transp, opa, with tan off wht vrn mott edges, sli weath dolo text, pp moldic por, tan brn stain, gas filmy SFO on brk, dolo/lt wht lt gry green f vf xln gran dns sub chlky some soft, glau with weath chrt inclu aa, nodor in any			chrt lt gry shrp frsh opa, transl, mstly transp, shrp blk ang shrds, chrt lt gry lt smokey color, shrp frsh opa with sli weath gran dolo edges, tan brn stain, pp moldic por, dolo off wht lt gry green f vf xln blk ang glau, tan brn stain, drk SFO, nodor in any			chrt vry lt gry, some lt smokey gry, mstly clr, semi opa, semi transl, mstly transp, shrp blk ang shrds, some with tr sli dolo weath edge text, tan brn stain, pp moldic por, dolo off wht crm, wht, f vf xln gran chrty text, glau, inter xln por, tan brn stain, tr tan brn stain, dull scatt UV, nodor in any	
4656'	89.1 deg @ 180.8 az	4657'	88.8 deg @ 180.3 az	4658'	88.9 deg @ 179.9 az	4658'	90.2 deg @ 179.9 az
		chrt vry lt gry shrp frsh opa transp, blk ang shrds, chrt lt gry smokey color, shrp frsh opa tr transl, with weath gran dolo text edges, pp moldic por, inter xln por, tan brn stain, tr hvy brn stain tr floating droplests, dull scatt UV		chrt vry lt gry to clr, lt smokey gry shrp frsh, semi transl, mstly transp, blk ang shrds, tr sli weath tan brn stained edge, pp, moldic por, dolo off wht lt gry crm, f xln gran gritty some sndy text, glau, inter xln por, tan brn stain, filmy SFO on brk, scatt dull UV			chrt lt gry to clez transl, mstly trar text, lt tan brn dolo lt brn stain, dolo tint, chrty inclu a sndy/chrty text, i stain, tr scatt du
				4710			



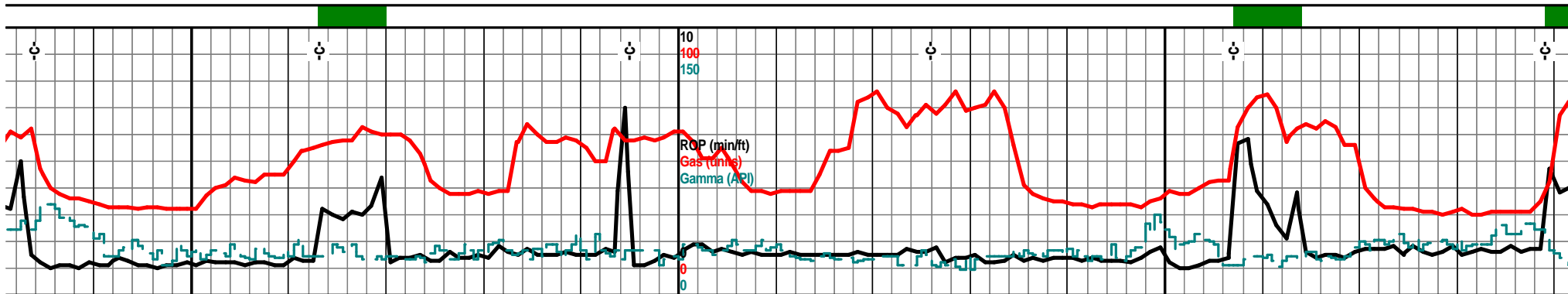
7280	7300	7320	7340	7360	7380	7400	7420
	7294' 6 am Thursday June 27, 2013	4610 TVD					4610 TVD
	dolo wht off wht f vf xln gran gritty some sndy text, glau, chrt in prt, with vry lt gry clr shrp frsh semit opa q chrt inclu, chrt vry lt gry, vry lt smokey gry, shrp frsh opa q blk ang shrds, semi transl, mstly transp, tr with weath sli dolo edge, pp moldic por, tan brn stain in some, tr hvy grsy stain some gas bubs, nodor, scatt dull UN			dolo off wht lt crm lt green tint, f vf xln gran gritty some sub chlky, glau, chrt in prt, chrt lt gry off wht shrp frsh blk ang shrds, semi transl, mstly transp, tr weath edge text, little vis por, tr brn, blk hvy stain nodor			chrt off wht lt gry, lt smokey gry/clr, sh ang shrds, semi transl, some transp, cf shrp frsh opa q, shrp blk semi opa q, ta stained color, tr weath edge text, pp mc frac por, drk brn stain, brn SFO/Gas bu break, scatt dull UV
	4657' 90.9 deg @ 180.4 az	4657' 90.9 deg @ 179.6 az	4657' 90.0 deg @ 179.7 az	4657' 90.3 deg @ 179.6 az	4656' 91.0 deg @ 180.1 az		
ar, shrp frsh semi opa q, some rsp, with some tan lt brn sli weath olo text edge, pp moldic por, tan off wht crm some lt gry/green aa, f vf xln gran gritty, tr inter xln por, mstly dns, tan lt brn ill UV, nodor		dolo, chrt dolo, wht off wht some crm, f xln gran blk ang pcs tr glau, tr inter xln, pp por, tr tan brn stain edges, chrt off wht vry lt gry, shrp frsh opa q transl, mstly transp, with some sli weath sli trip text, pp moldic por, tan brn edge stain		dolo wht off wht, some lt crm with green tint, f vf xln, glau, gritty gran text, sub chlky in some, chrt in prt, acid=fizz, chrt lt gry, some clr, transl in prt, mstly transp, blk ang shrp shards in mst, tr weath edge text, hvy brn stain nodor			
		Mud-Co. 7325' wt. 8.5 vis. 30 wl. N/C chl. 925					
		4710				4710	



7440	7460	7480	7500	7520	7540	7560	7580	
4610 TV 7510' 6 am Friday June 28, 2013								
rp frsh blk rt tan brn an brn oldic some bs on	chrt off wht lt gry, lt smokey gry, shrp frsh ang blk shrds, semi transl, msly transp, drk tan brn stained color, drk tan brn sli weath edge text, pp moldic por, brn SFO, gas bubs on brk, sli odor,						chrt off with lt gry smokey gry, tr blue/gry, shrp frsh opa, semi transl, transp in prt, tan brn stained weath edges, pp moldic por, drk tan brn SFO o brk, tr gas bubs, chrt tan brn crm mott, trip weath text, pp moldic por, tan brn stain drk SFO on brk, gas bubs, dull scatt UV	
4656' 90.9 deg @ 179.6 az	4655' 91.4 deg @ 179.9 az	4654' 91.7 deg @ 180.1 az	4653' 91.8 deg @ 179.9 az	4652' 91.6 deg @ 180.6 az	92.:			
chrt lt gry, smokey gry, tan brn stained color, shrp frsh blk opa, ang shrds, tan brn stain, sli weath edge text, pp moldic frac por, tan brn stain, drk tan/brn SFO/Gas bubs on brk, tr hvy brn SFO, oil floaters, dull scatt UV		chrt off with lt smokey, lt blue gry, shrp frsh opa transl, sli transp in prt, with tan brn off wht mott weath text edges, pp moldic por, drk tan brn stain, sli odor, SFO (drk brn) when brkn, tr gas bubs, dull scatt UV			chrt off wht, lt gry, smokey gry, tr blue gry shrp frsh opa, transl, some transp, with off wht tan brn mott weath edges, weath trip text, pp moldic por, drk tan brn stain, drk tan brn SFO on brk, gas bub on break, tr floating oil drops, dull scatt UV. sli odor??			
				Mud-Co. 7530' wt. 8.4 vis. 30 wl. N/C chl. 900				
4710								



7600	7620	7640	7660	7680	7700	7720	7740	
4610 TVD		6 pm 7680' Friday June 28, 2013			4610 TVD			
chrt lt gry lt smokey gry, tr blue gry, shrp frsh opa, seimi tranls, some transp, with sli weath tan brn stained sli trip edges, pp moldi por, drk tan brn stain, drk brn SFO on break, floaters, dull scatt UV, tr gas bubs sli odor?		chrt lt gry lt smokey gry, blue gry, shrp frsh blk ang semi opa shrds, semi tranls, some transp, NS, chrt aa with drk tan brn sli weath, sli gran trip text edges, drk tan brn stained edges, pp moldic por, drk SSFO and gas bubs when brk, dull scatt UV, sli odor?			chrt off wht, lt gry some blue gry, shrp frsh opa, semi tranls, some transp, shrp blk ang shrds, chrt drk tan brn mott shrp frsh opa semi tranls with weath sli gran trip text edges, drn tan brn stained edge por, pp moldic por, incr chrt with vis shows, drk brn SFO, floaters, tr gas bubs scatt dull UV			
4651' 2 deg @ 181.1 az		4651' 88.7 deg @ 180.8 az			4652' 88.5 deg @ 180.8 az			4652' 89.8 deg @ 180.4 az
4660		4660			4660			4660
4710		4710			4710			4710
chrt off wht lt gry, lt blue gry, smokey color, sharp frsh opa semi tranls, transp in some, with tan brn sli gran weath sli trip text edges, drk tan brn stain, drk brn SSFO on break, gas bubs of break, dull scatt UV, sli odor? chrt gry smokey gry shrp frsh opa, blk ang shrds, tr transp, NS		chrt lt gry some wht, lt smokey gry shrp frsh opa, transl, some transp, shrp blk ang shrds with tr weath sli trip gran text edges, drk tan brn stained edge por, pp moldic edge por, hvy brn SFO			chrt lt gry, lt smokey gry shrp frsh opa trans sli trip text edges, di moldic por, drk SFO UV, sli odor?			



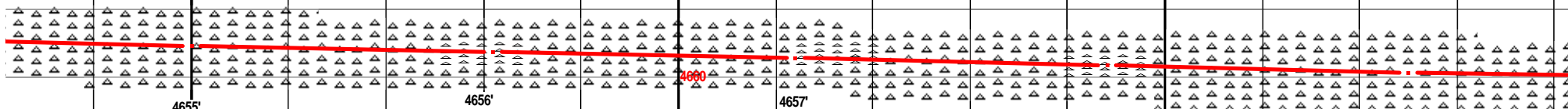
8240 8260 8280 8300 8320 8340 8360 8380

4610 TVD

chrt off wht lt gry lt smokey gry, shrp frsh opa, blk ang shrds, semi transly msly semi transp, with chrt lt gry brn mott with sli weath drk tan brn stained edges/sides, drk brn stain/ssfo, filmy sfo, tr gas bubs odor?? scatt UV

chrt off wht lt gry smokey gry shrp frsh opaq semi transl, some transp, shcrt blyk ang shrd with some sli weath sli trip edge text, pp moldic por, drk tan brn stained edges/sides,

chrt off wht lt gry, lt smokey gry shrp frsh opa, semi transl, sli transp, shrp blyk ang shrds, with chrt lt gry smokey with drk tan brn stained edges/sides, tr pp moldic por, VSSFO on brk, tr gas on brk, dull scatt UV nodor,



4655'
87.9 deg @
181.5 az

4656'
88.6 deg @
182.2 az

4657'
88.4 deg @
181.6 az

4658'
88.0 deg @
182.0 az

4659'
88.2 deg @
182.7 az

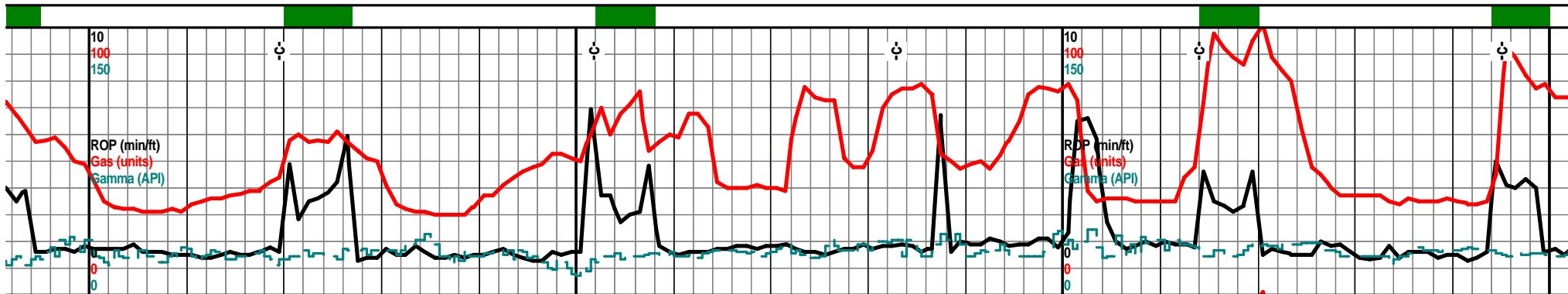
key gry, shrp frsh opa, ang shrds, chrt gry brn s/sides, pp moldic por, s/sides, filmy SFO, tr Gas IV

chrt off wht lt gry lt smokey gry, shrp frsh blyk ang opa semi transl, some transp, with sli weath drk tan brn stained edges sides, sli weath text moldic and pp por, drk tan brn stain, VSSFO, filmy SFO some floaters, scatt gas bubs, nodor scatt UV

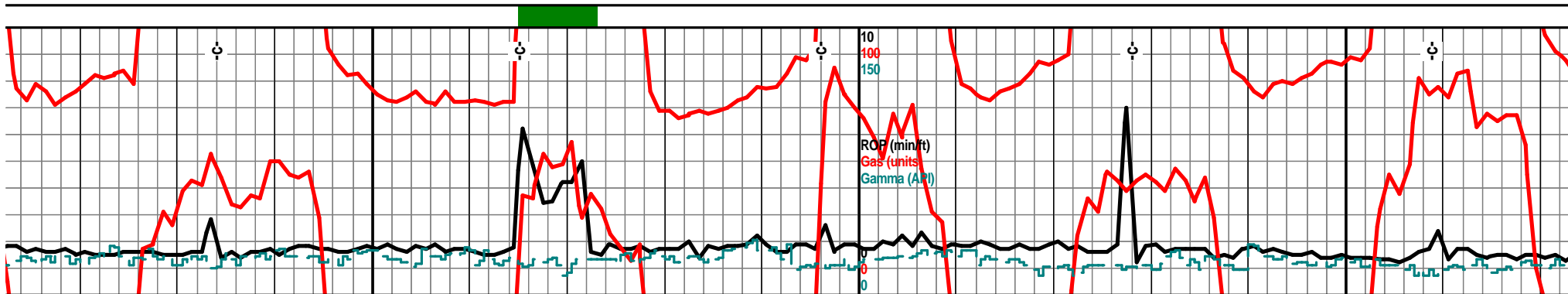
chrt off wht lt gry lt smokey gry, shrp frsh semi opa, some transp, transl in prt, shrp blyk ang shrds, with chrt gry drk tan brn mott, drk tan brn sli weath edges/side, drk tan brn stain, odor?, tr gas bubs

chrt o and s drk ta brn st UV

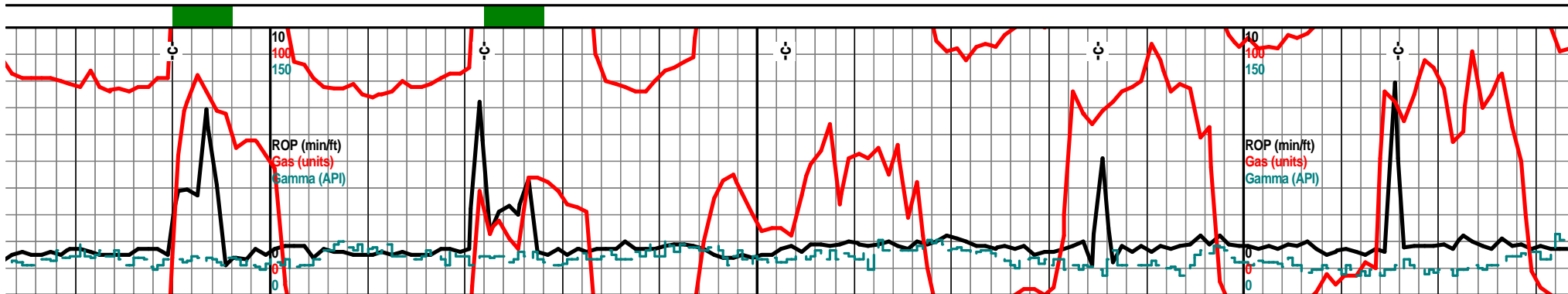
4710



8400	8420	8440	8460	8480	8500	8520	8540
4610 TVD					4610 TVD	8515' 6 am Tuesday July 2, 2013	
	chrt off wht lt gry, lt smokey gry, shrp frsh opa, semi transl, mstly transp, blk ang shrds, chrt off wht lt gry with drk tan brn sli weath text edges/sides, pp tr moldic por, brn stain, sli odor, SSFO on break, some floating oil drops, dull scatt UV			chrt off wht lt gry, lt gry smokey color, shrp frsh blk ang shrds, semi transl, mstly transp, 50-50 split of chrt aa and chrt drk tan brn frsh shrp opa with sli weath edges/sides, drk tan brn stained edges with filmy SFO, floaters, tr gas bubs, dull scatt UV			chrt off wht lt gry lt smokey semi transl, semi tranap, wr edges, sides, some weath e por, drk brn stain, SSFO on bubs, scatt dull UV
4660' 88.8 deg @ 183.2 az		4660' 89.9 deg @ 182.5 az		4660' 91.1 deg @ 183.0 az		4659' 91.5 deg @ 182.2 az	4658' 90.7 deg @ 181.5 az
ff wht lt gry smokey shrp frsh opa, blk hds, transl, mstly transp, milky opa, with in brn stained sli weath edges/sides, drk tan taine, SSFO on brk, tr gas/brk nodor, scatt			chrt lt gry off wht, lt smokey gry, shrp frsh semi opa, transl, mstly transp, 50-50 split of frsh no show and drk tan brn frsh with sli weath edge/side, drk tan to brn stained, filmy SFO/gas bubs on brk, sli odor, scatt dull UV			chrt off wht lt gry lt smokey gry shrp frsh opa, transl, semi transp, with sli weath drk tan brn stained edges/sides, pp moldic por, drk brn stain, sli odor, gas bubs, drk SSFO, scatt dull UV and lst/dolo wht off wht f xln chrt, chrt inlcu, glau	
4710					4710		



8720	8740	8760	8780	8800	8820	8840	8860		
				4610 TVD					
<p>chrt, mix of off wht lt gry lt smokey shrp frsh opa, transl, some transp, blk ang shrp shrds, with sli weath edge, tan lt brn stained edges/sides, some pp moldic por, sli odor, dull scatt UV</p>				<p>chrt off wht lt gry, smokey gry, shrp frsh opa, semi transl, bec more transp, shrp blk ang shrds, less show, some chrt off wht lt gry with sli weath sli stained edges/sides, tr odor?, scatt rare dull UV</p>		<p>chrt, off wht lt gry lt smokey gry, shrp frsh opa, semi transl, transp in rpt, shrp blk ang shrds, with tr sli weath tan brn stained edges/sides, some pp moldic por, drk tan lt brn stain, nodor, scatt UV</p>			
4662' 88.9 deg @ 182.2 az		4662' 88.6 deg @ 182.5 az		4663' 89.6 deg @ 182.7 az		4663' 89.4 deg @ 182.3 az		4663' 89.6 deg @ 182.5 az	
<p>transl, :hrt lt gry tan lt brn dor in prt,</p>		<p>chrt as before, mix of off wht lt gry lt smokey gry shrp frsh opa, semi transl, some trans, shrp blk ang shrds with tr weath tan lt brn stained edges/sides, some pp moldic por, sli odor, tr filmy SFO, scatt dull UV</p>				<p>chrt off with lt gry lt smokey gry, shrp frsh opa, semi transl, transp in prt, shrp blk ang shrds, with tr sli weath tan brn stained edges/sides, some pp moldic por, drk tan lt brn stain, nodor, scatt UV</p>		<p>chrt o semi shrds some UV, n</p>	
					4710				



8880 8900 8920 8940 8960 8980 9000 9020

4610 TVD
 8975' 6 am
 Wednesday
 July 3, 2013
 4610 TVD

chrt off wht lt gry smokey color gry, shrp frsh opa, semi transl, some transp, shrp frsh blk ang shrds, with some tan brn drk brn stained sli weath edge/side text, some pp moldic por, tr filmy SFO, scatt dull UV

chrt off wht lt gry smokey gry shrp frsh opa, semi transl, mstly transp, blk ang shrp shards, with sli weath tan brn stained edges, pp moldic por, tan brn staine sli odor, VSSFO on brk, tr gas bubs on brk, dull scatt UV

chrt off wht lt gry, lt smok semi transl, some transp, weath edges, tan brn stain VSSFilmy oil, sli odor? du



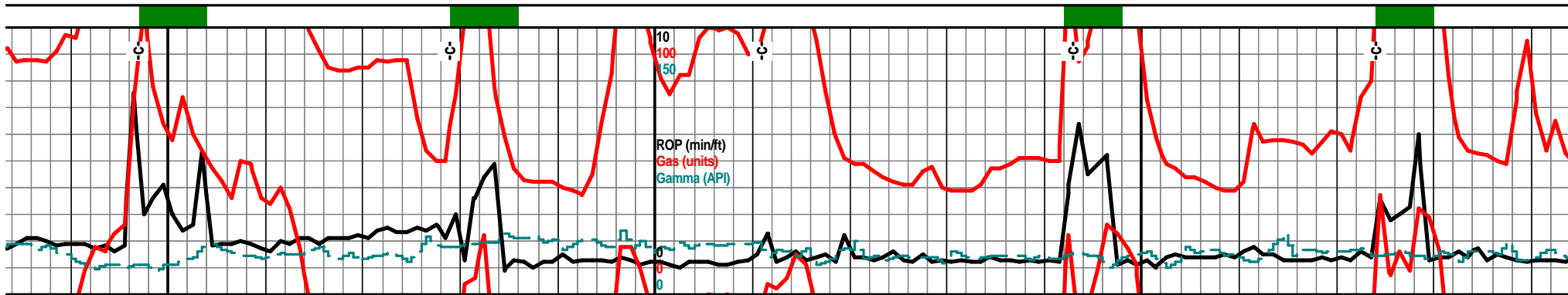
4664' 89.6 deg @ 183.4 az 4664' 89.9 deg @ 182.2 az 4664' 90.4 deg @ 182.2 az 4663' 90.5 deg @ 182.5 az 4663' 90.7 deg @ 182.9 az 4661' 90.1 deg @ 183.6 az

chrt off wht lt gry lt smokey color, shrp frsh opa, semi transl, some transp, shrp frsh blk ang shrds, with sli weath tan brn stained edges/sides, pp moldic por, drk tan brn stain, dull scatt odor, some filmy SFO, floaters

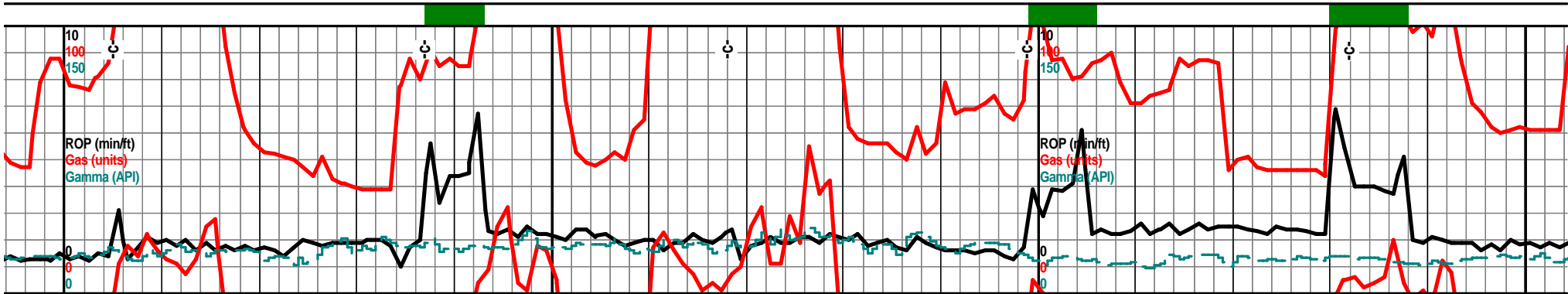
chrt off wht lt gry lt smokey color, shrp frsh opa, semi transl, mstly transp, shrp blk ang shrds, with some sli weath tan lt brn stained edges/sides, tr pp moldic por, sli odor, dull scatt UV

chrt lt gry, lt smokey try shrp frsh opa, semi transl, some transp, shrp blk ang shrds, some with sli weath drk tan lt brn staine edges/sides, tr pp moldic por, tan brn stain/SSFO on brk, tr gas on brk, fleeting odor, dull scatt ZUV

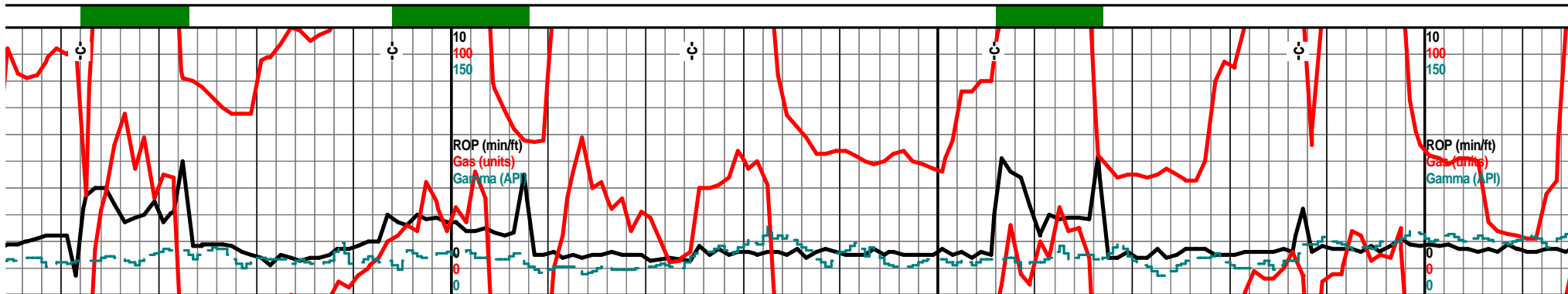
4710 4710



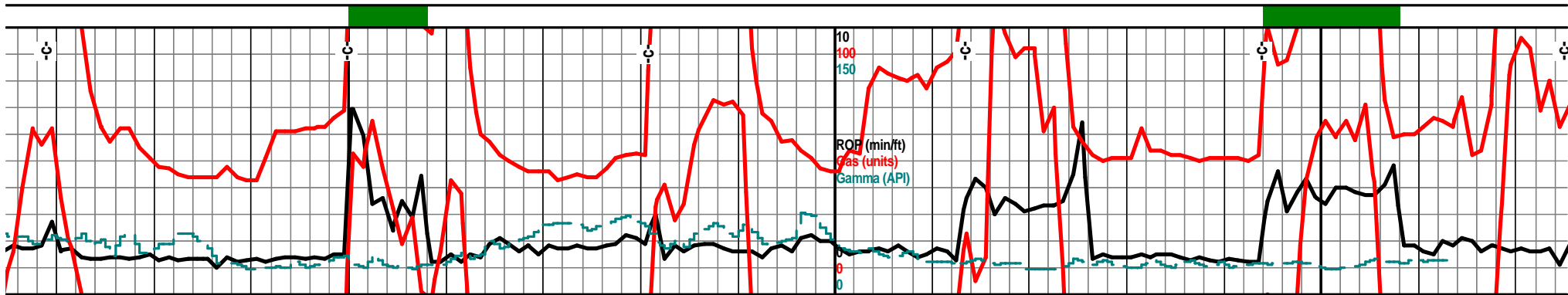
9040	9060	9080	9100	9120	9140	9160	9180
		Bit Trip 9079' Pull # 9	4610 TVD				9174' 6 am Friday July 5, 2013
ey gry, shrp frsh opa, with chrt aa bec sil red weath edges, ill scatt UV		Bit trip and rig repair sample, mstly all pump sweep material, Beads, Nutplug, tr cedar fill				chrt lt gry, lt smokey gry shrp frsh opa, prtly transl, mstly transp, blk ang shrp shrds some with sli weath drk tan brn stained edges/sides, some pp moldic por, sli odor, SSFO & gas bubs on brk, scatt dull UV	
			4660				
63' leg @ 88.9 deg @ 182.2 az	4663' 89.4 deg @ 183.1 az		4663' 88.7 deg @ 182.0 az	4664' 88.6 deg @ 182.2 az		4665' 88.2 deg @ 181.7 az	4666' 88.9 deg @ 182.2 az
	chrt lt gry off gry, dull gry, lt smokey color, shrp frsh opa ang shrds, semi transl, some transp, with some tan brn stained sli weath edges/sides, filmy SFO, tr gas bubs, tr drk brn hvy stain dull scatt UV, odor??			chrt off wht lt gry lt smokey gry shrp frsh opa, semi transl, mstly transp, frosty, with chrt lt gry smokey shrp frsh opa with sli weath drk tan brn stained edges, pp moldic por, sli odor, gas bubs scatt dull UV		chrt off wht lt gry smoke color, shrp frsh frosty blk ang shrds, semi transl, mstly transp with some sli weath drk tan brn stained edges, pp moldic por, drk tan brn stain, VSSFO/gas bubs brk, dull scatt UV	
	Rig Repairs @ 9079 Thursday, 6 am July 4, 2013		4710				



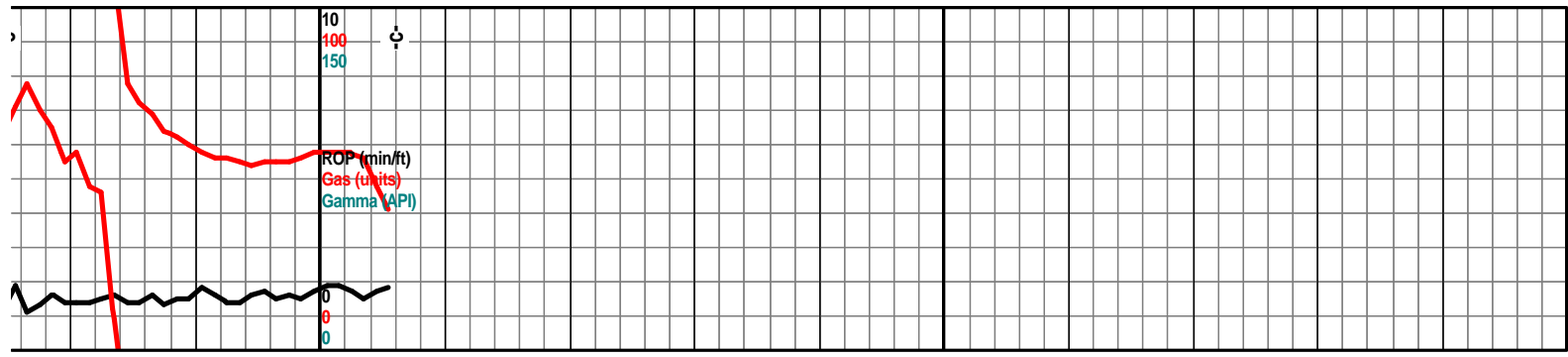
9200	9220	9240	9260	9280	9300	9320	9340
4610 TVD					4610 TVD		
chrt off wth lt gry smokey gry shrp frsh opa semi transl, mstly transp, shrp blk ang shrds, incr chrt aa with tan brn stained sli weath text, tan brn stain, pp moldic por, drk brn SFO, gas bubs, scatt dull UV, odor??			chrt off wth lt gry lt smokey gry semi opa, frosted, semi transl, mstly transp, shrp frsh blk ang shrds, chrt aa with sli weath drk tan brn stained edges/sides, drk hvy SFO, tr gas bubs, some floaters, dull scatt UV, nodor!			chrt off wth lt gry, smokey color, shrp frsh opa, frosty text, semi transl, some transp, blk ang shrds, with chrt aa with some sli weath sli trip edges/sides, pp moldic por, drk tan brn stain, drk brn SFO, floaters, hvy brn SFO, sli odor, dull UV, some loose gas bubs, lst wth f vf xln, blk ang sub chlky, tr glau	
4660					4660		
@							
	4666' 89.1 deg @ 182.0 az		4667' 89.8 deg @ 181.1 az		4667' 90.4 deg @ 181.3 az	4666' 90.3 deg @ 181.0 az	4666' 90.0 deg @ 180.1 az
		chrt off wth lt smokey gry shrp frsh opa, blk ang shrp shrds, transl, mstly transp with drk tan brn stained sli weath chrt aa with pp moldic edge/side por, drk tan brn stain, SSFO, tr gas bubs nodor, dull scatt UV			chrt off wth lt gry lt smokey gry, semi opa, frosted text, transl, mstly transp, shrp ang shrds, with chrt aa and sli weath sli trip edges/sides, drk tan brn stain, hvy brn SFO, Filmy SFO, gas bubs, odor, scatt UV		chrt off wth opa, semi shrds, chrt : edges/sides FO, filmy S fair odor
4710			Mud-Co. 9265' wt. 8.4 vis. 30 wl. N/C chl. 800		4710		



9360	9380	9400	9420	9440	9460	9480	9500
		4610 TVD					4610 TVD
	chrt off wht lt gry lt smokey gry, shrp frsh opa, semi transl, mstly tansp, blk ang shrds, with sli weath some sli trip text drk tan brn stained edges, sides, pp moldic por, drk stain, drk SFO, tr gas bubs, scatt UV odor??			chrt incr frsh, lt gry smokey shrp frsh opa, semi transl, mstly opa, shrp blk shrds, frosty text, some with drk tan brn stained sli weath sli trip text edges, sides, pp moldic por, drk tan brn SSFO on brk, tr gas on brk, odor?, scatt UV			chrt off wht frost smokey gry ang shrds, with tr sli weath e brn stained edges, some pp stain/sfo on break, dull scatt shows
		4660				4672' 85.6 deg @ 179.7 az	4660
		4667' 88.3 deg @ 180.1 az	4668' 86.4 deg @ 180.8 az	4670' 86.3 deg @ 179.9 az			4675' 85.4 deg @ 179.9 az
lt gry smokey frosty gry, shrp frsh transl, some transp, shrp blk ang aa with drk tan brn weath sli trip text s, pp moldic por, tan brn stain, SS brn iFO, gas bubs on brk, scatt dull UV ,			chrt off wht lt gry, smokey gry shrp frsh opa semi transl, mstly transp, frosty text, shrp blk ang shrds, with some sli weath sli trip text edges/sdies, pp moldic por tan brn stain, drk SFO sli odor, dull scatt UV			chrt off wht lt gry smokey gry, frosty gry, shrp frsh blk ang shrds, semi transl, mstly transp, with incr drk tan brn sli weath, sli trip text edges/sides, pp moldic por, drk tan brn stain/SSFO w/Brkn, sli odor?? scatt UV	
		4710					4710



9520	9540	9560	9580	9600	9620	9640	9660
				4610 TVD		9644' 6 am Saturday July 6, 2013	
r, shrp frsh opa, blk dge/sides, drk tan moldic por, drk brn UV nodor, dec vis			chrt off wht lt gry smokey color gry shrp frsh semi opaq, transl, transp in most, shrp blk shrds, with tr weath gran sli trip edge text, pp moldic por, drk tan brn edge stain, filmy SFO, drk brn SFO, gas bubs sli odor, dull scatt UV			chrt gry lt gry smokey gry shrp frsh opa transl, some transp, shrp blk shrds, chrt gry tan brn mott shrp frsh with gran sli trip text edges, pp moldic por, much drk tan brn stained edges, drk tan brn SFO, filmy SFO, floating drops, gas bubs, dull scatt UV	chrt off wht lt gry lt smokey gry, shrp frsh opa, chrt lt gry smokey/tan brn mott in prt, gran sli text semi weath text, pp molc por, drk tan brn stained edges/sdies, drk tan brn SFO, filmy SFO on brk, tr gas bubs, sli odor, floaters
	4677' 86.1 deg @ 178.5 az		4679' 86.9 deg @ 178.7 az	4681' 87.0 deg @ 178.0 az	4683' 85.5 deg @ 177.8 az		4686' 84.2 deg @ 178.20 az
	chrt off wht lt gry, frosty gry, shrp frsh opa semi transl, some transp, shrp blk shrds with weath sli trip text edges/sides, drk tan brn stained edges, pp moldic por, drk brn SFO, odor, scatt UV			chrt off wht lt gry smokey color gry shrp frsh blk ang shrds, semi opa, sli transl, some transp with sli weath some gran text edges, drk tan brn stained edges, pp molc por, tr gas bubs, sli odor, drk brn stain, some SFO on brk			
				4710			



9680 9700 9720 9740 9760 9780 98

<p>4610 TVD</p> <p>chrt off with lt gry, smokey gry, frsh shrp blk ang shrds, semi transl, some transp, with chrt gry tan brn mott, shrp frsh with weath gran sli trip text edges/sides, pp moldic por, drk tan brn stain, drk tan brn SFO, gas bubs on break fair odor</p>			<p>Woolsey Operating Company Michel 1 H 2246' FNL & 1480' FEL Apx NE SE SW NE Sec 7 - Twp 34 South - Rge 11 West Rhodes South Field Barber County, Kansas API 15-007-24002-01-00</p>							
<p>ip</p>										
<p>4660</p> <p>4690' 84.2 deg @ 178.20 az</p>										
<p>4710</p>										