



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1155401
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1155401

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

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

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

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

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	MICHEL 2 H
Doc ID	1155401

Tops

Name	Top	Datum
CHASE	1908	-412
LECOMPTON	3518	-2022
HEEBNER	3750	-2254
DOUGLAS	3777	-2281
SWOPE LS	4422	-2926
HERTHA LS	4464	-2968
PAWNEE	4592	-3096
MISSISSIPPIAN	4654	-3158

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	MICHEL 2 H
Doc ID	1155401

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	41	GROUT	4	4 YDS not sx
SURFACE	17.5	13.375	48	336	CLASS A	330	2%GEL, 3% CC
PRODUCTION	8.75	7	23	5237	60/40 POZMIX	50	
PRODUCTION	8.75	7	23	5237	CLASS H	150	see attached

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



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 15, 2013

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

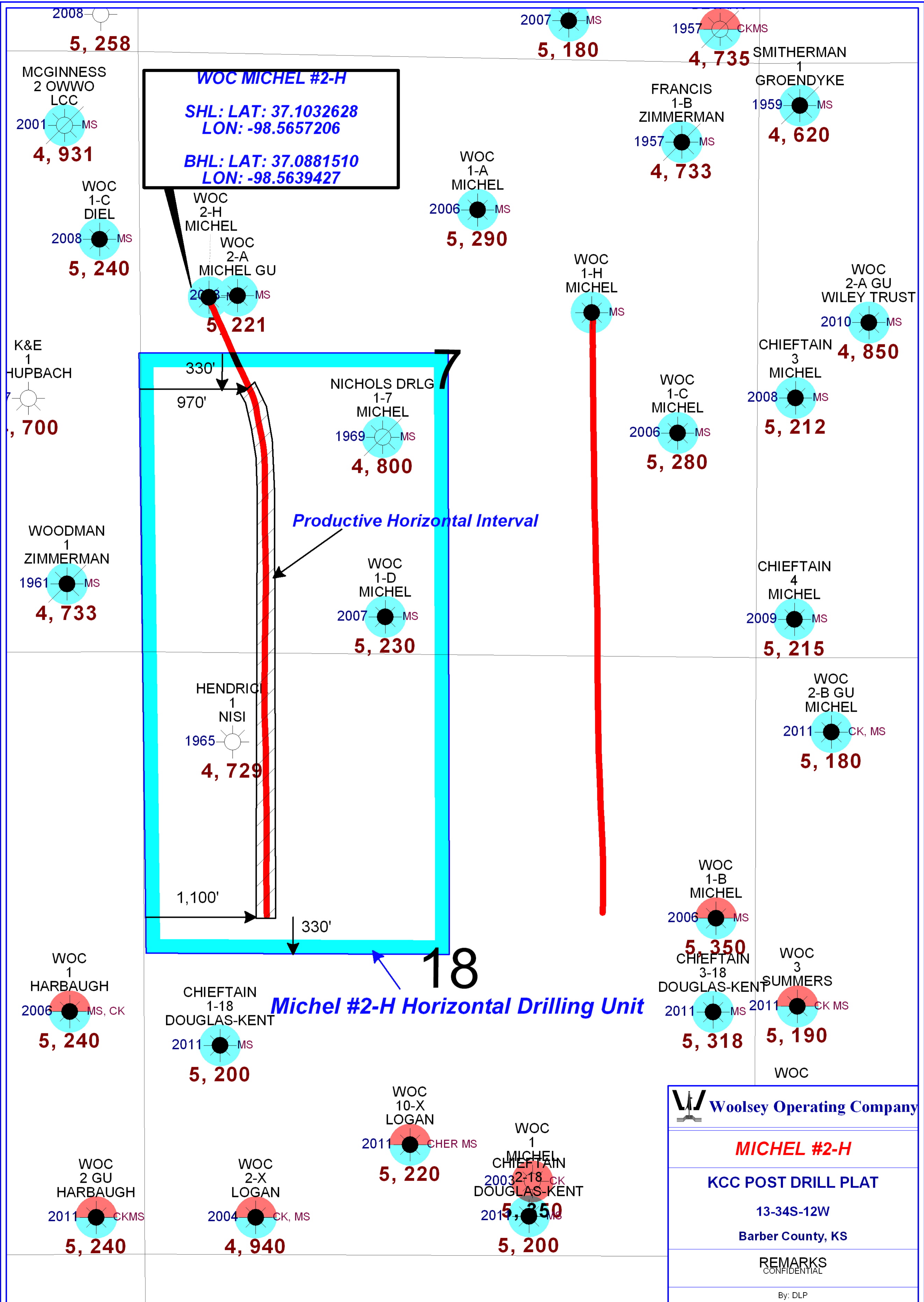
Re: ACO1
API 15-007-24014-01-00
MICHEL 2 H
NW/4 Sec.07-34S-11W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
DEAN PATTISSON



WOC MICHEL #2-H
SHL: LAT: 37.1032628
LON: -98.5657206
BHL: LAT: 37.0881510
LON: -98.5639427

Productive Horizontal Interval

Michel #2-H Horizontal Drilling Unit

18

Woolsey Operating Company

MICHEL #2-H

KCC POST DRILL PLAT

13-34S-12W

Barber County, KS

REMARKS
CONFIDENTIAL

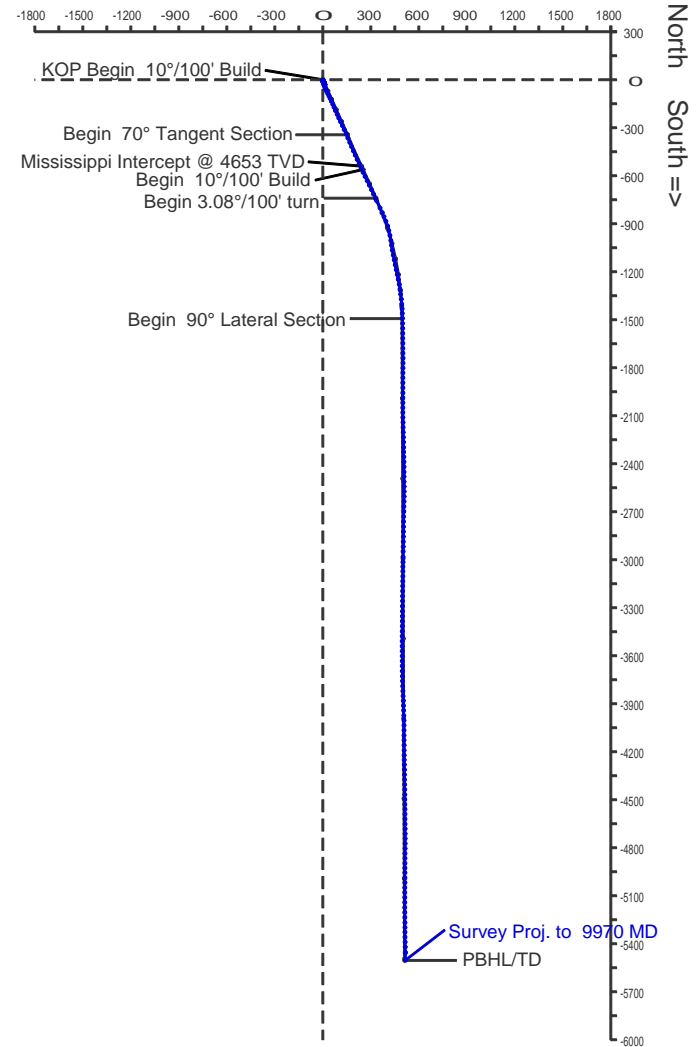
By: DLP

Woolsey Operating Company, LLC

Michel 2H

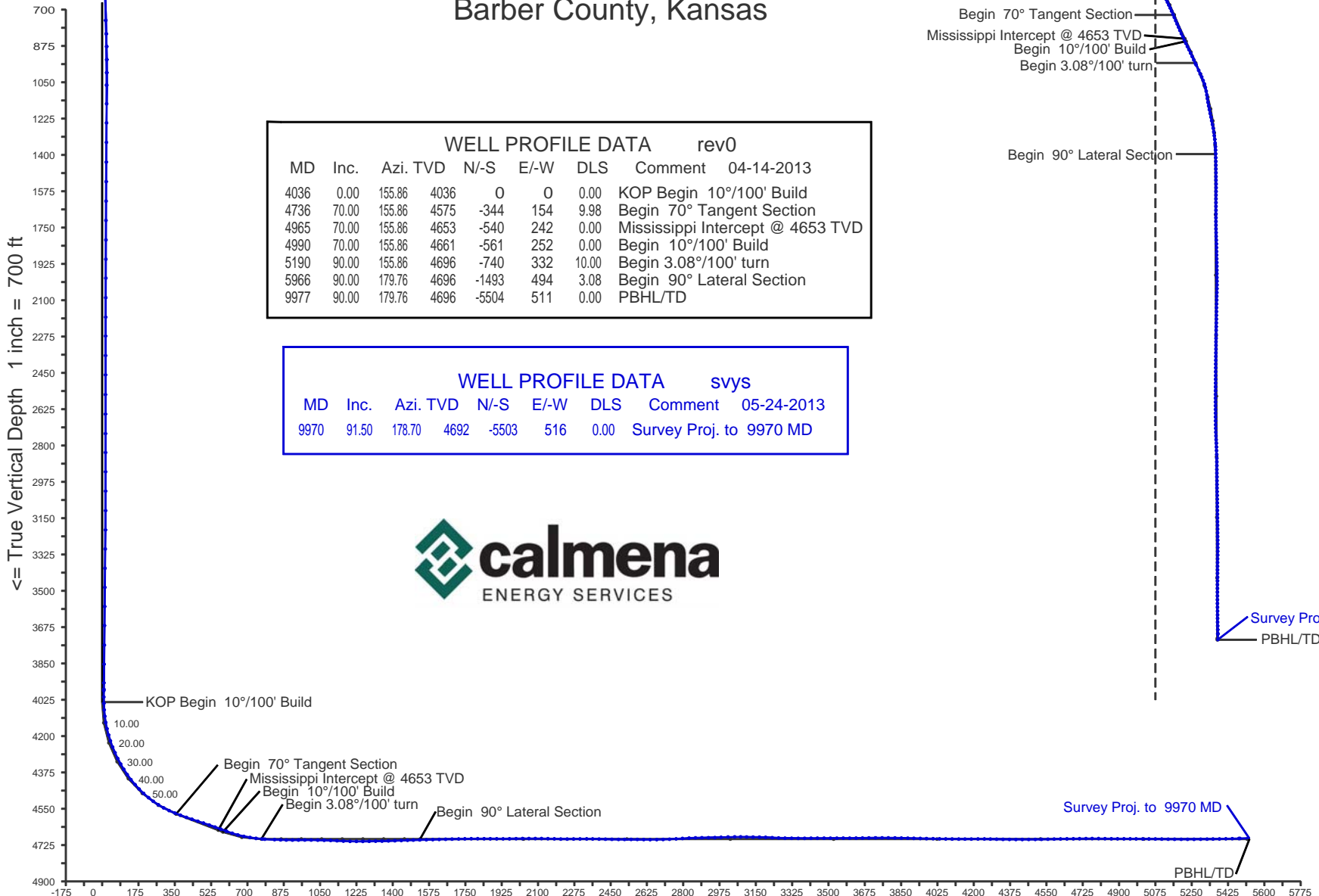
Barber County, Kansas

1 inch = 1200 ft <= West East =>



WELL PROFILE DATA rev0							
MD	Inc.	Azi.	TVD	N/S	E/W	DLS	Comment
4036	0.00	155.86	4036	0	0	0.00	KOP Begin 10°/100' Build
4736	70.00	155.86	4575	-344	154	9.98	Begin 70° Tangent Section
4965	70.00	155.86	4653	-540	242	0.00	Mississippi Intercept @ 4653 TVD
4990	70.00	155.86	4661	-561	252	0.00	Begin 10°/100' Build
5190	90.00	155.86	4696	-740	332	10.00	Begin 3.08°/100' turn
5966	90.00	179.76	4696	-1493	494	3.08	Begin 90° Lateral Section
9977	90.00	179.76	4696	-5504	511	0.00	PBHL/TD

WELL PROFILE DATA svys							
MD	Inc.	Azi.	TVD	N/S	E/W	DLS	Comment
9970	91.50	178.70	4692	-5503	516	0.00	Survey Proj. to 9970 MD



Vertical Section on 174.7 deg azimuth with reference 0.00 N, 0.00 E

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
 Page 1
 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
Surface Location								158960.00	1980829.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158960.00	1980829.00	
752.00	2.80	157.10	751.70	-16.92	7.15	0.37	17.51	158943.08	1980836.15	
817.00	2.30	156.90	816.64	-19.59	8.28	0.77	20.27	158940.41	1980837.28	
878.00	1.00	149.90	877.61	-21.17	9.03	2.15	21.92	158938.83	1980838.03	
941.00	0.50	83.40	940.61	-21.62	9.57	1.46	22.41	158938.38	1980838.57	
1004.00	0.40	30.90	1003.60	-21.40	9.96	0.65	22.22	158938.60	1980838.96	
1064.00	0.20	338.20	1063.60	-21.12	10.03	0.54	21.95	158938.88	1980839.03	
1154.00	0.30	310.00	1153.60	-20.82	9.79	0.17	21.64	158939.18	1980838.79	
1246.00	0.30	320.90	1245.60	-20.48	9.45	0.06	21.27	158939.52	1980838.45	
1340.00	0.40	313.70	1339.60	-20.06	9.06	0.12	20.81	158939.94	1980838.06	
1435.00	0.30	329.00	1434.60	-19.62	8.69	0.14	20.34	158940.38	1980837.69	
1529.00	0.40	349.00	1528.60	-19.09	8.50	0.17	19.79	158940.91	1980837.50	
1623.00	0.40	8.70	1622.59	-18.44	8.49	0.15	19.15	158941.56	1980837.49	
1716.00	0.40	28.80	1715.59	-17.83	8.70	0.15	18.56	158942.17	1980837.70	
1810.00	0.20	298.40	1809.59	-17.47	8.71	0.48	18.20	158942.53	1980837.71	
1903.00	0.30	289.10	1902.59	-17.31	8.34	0.12	18.01	158942.69	1980837.34	
1994.00	0.30	298.20	1993.59	-17.12	7.90	0.05	17.78	158942.88	1980836.90	
2088.00	0.40	302.80	2087.59	-16.83	7.41	0.11	17.44	158943.17	1980836.41	
2182.00	0.50	281.70	2181.58	-16.57	6.73	0.20	17.12	158943.43	1980835.73	
2273.00	0.50	283.00	2272.58	-16.40	5.96	0.01	16.88	158943.60	1980834.96	
2367.00	0.60	280.10	2366.58	-16.22	5.07	0.11	16.62	158943.78	1980834.07	
2460.00	0.30	295.60	2459.57	-16.03	4.37	0.35	16.36	158943.97	1980833.37	
2555.00	0.40	265.90	2554.57	-15.94	3.82	0.21	16.23	158944.06	1980832.82	
2649.00	0.10	267.10	2648.57	-15.97	3.41	0.32	16.22	158944.03	1980832.41	
2743.00	0.10	128.10	2742.57	-16.03	3.39	0.20	16.27	158943.97	1980832.39	
2834.00	0.20	103.30	2833.57	-16.11	3.61	0.13	16.38	158943.89	1980832.61	
2927.00	0.30	145.50	2926.57	-16.35	3.90	0.22	16.64	158943.65	1980832.90	
3020.00	0.20	88.90	3019.57	-16.55	4.20	0.27	16.87	158943.45	1980833.20	
3114.00	0.30	65.90	3113.57	-16.44	4.59	0.15	16.80	158943.56	1980833.59	
3207.00	0.70	341.80	3206.56	-15.80	4.64	0.79	16.17	158944.20	1980833.64	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
 Page 2
 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
3299.00	1.00	330.80	3298.55	-14.57	4.07	0.37	14.88	158945.43	1980833.07	
3392.00	0.50	327.40	3391.55	-13.52	3.46	0.54	13.78	158946.48	1980832.46	
3484.00	0.50	328.50	3483.54	-12.84	3.03	0.01	13.06	158947.16	1980832.03	
3576.00	0.60	324.10	3575.54	-12.11	2.54	0.12	12.29	158947.89	1980831.54	
3668.00	0.60	314.80	3667.53	-11.38	1.91	0.11	11.51	158948.62	1980830.91	
3762.00	0.70	327.30	3761.53	-10.55	1.25	0.18	10.62	158949.45	1980830.25	
3854.00	0.80	336.90	3853.52	-9.48	0.70	0.17	9.51	158950.52	1980829.70	
3944.00	0.70	323.70	3943.51	-8.46	0.13	0.22	8.44	158951.54	1980829.13	
3975.00	0.50	316.90	3974.51	-8.21	-0.08	0.68	8.17	158951.79	1980828.92	
3981.00	0.50	304.90	3980.51	-8.18	-0.12	1.74	8.13	158951.82	1980828.88	
4012.00	0.30	265.40	4011.51	-8.11	-0.31	1.06	8.04	158951.89	1980828.69	
4043.00	1.70	178.00	4042.50	-8.57	-0.37	5.53	8.50	158951.43	1980828.63	
4074.00	4.00	169.90	4073.46	-10.10	-0.17	7.51	10.04	158949.90	1980828.83	
4105.00	6.80	165.70	4104.32	-12.94	0.48	9.12	12.93	158947.06	1980829.48	
4135.00	9.90	164.70	4134.00	-17.15	1.59	10.34	17.22	158942.85	1980830.59	
4166.00	13.10	163.10	4164.38	-23.08	3.32	10.37	23.29	158936.92	1980832.32	
4197.00	16.20	161.50	4194.36	-30.55	5.71	10.08	30.94	158929.45	1980834.71	
4227.00	19.20	159.20	4222.94	-39.13	8.79	10.27	39.77	158920.87	1980837.79	
4259.00	22.40	157.30	4252.85	-49.68	13.02	10.22	50.67	158910.32	1980842.02	
4289.00	25.20	154.80	4280.30	-60.73	17.94	9.92	62.13	158899.27	1980846.94	
4320.00	28.10	153.80	4308.00	-73.26	23.98	9.47	75.16	158886.74	1980852.98	
4350.00	30.80	153.80	4334.12	-86.49	30.49	9.00	88.94	158873.51	1980859.49	
4380.00	33.40	154.60	4359.54	-100.84	37.42	8.78	103.87	158859.16	1980866.42	
4411.00	36.40	155.50	4384.96	-116.92	44.90	9.82	120.57	158843.08	1980873.90	
4442.00	39.50	156.00	4409.40	-134.30	52.73	10.05	138.60	158825.70	1980881.73	
4474.00	42.50	156.40	4433.55	-153.51	61.19	9.41	158.51	158806.49	1980890.19	
4504.00	45.70	156.40	4455.09	-172.64	69.55	10.67	178.33	158787.36	1980898.55	
4535.00	49.00	156.20	4476.09	-193.51	78.72	10.66	199.96	158766.49	1980907.72	
4567.00	52.50	155.70	4496.33	-216.14	88.82	11.00	223.42	158743.86	1980917.82	
4597.00	55.50	155.30	4513.96	-238.22	98.88	10.06	246.34	158721.78	1980927.88	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
 Page 3
 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
4628.00	59.10	155.00	4530.71	-261.89	109.84	11.64	270.91	158698.11	1980938.84	
4659.00	63.00	155.00	4545.71	-286.47	121.31	12.58	296.45	158673.53	1980950.31	
4690.00	66.70	156.00	4558.88	-312.00	132.94	12.29	322.94	158648.00	1980961.94	
4721.00	69.20	156.40	4570.52	-338.29	144.53	8.15	350.19	158621.71	1980973.53	
4751.00	70.30	156.40	4580.90	-364.08	155.80	3.67	376.91	158595.92	1980984.80	
4783.00	71.60	156.90	4591.35	-391.85	167.78	4.32	405.67	158568.15	1980996.78	
4813.00	72.30	157.10	4600.64	-418.10	178.93	2.42	432.84	158541.90	1981007.93	
4844.00	72.60	156.70	4609.99	-445.29	190.53	1.57	460.99	158514.71	1981019.53	
4874.00	72.10	156.40	4619.09	-471.52	201.90	1.92	488.15	158488.48	1981030.90	
4905.00	72.10	155.70	4628.62	-498.48	213.88	2.15	516.10	158461.52	1981042.88	
4936.00	71.50	155.20	4638.30	-525.26	226.11	2.47	543.90	158434.74	1981055.11	
4967.00	71.10	155.30	4648.24	-551.93	238.41	1.33	571.59	158408.07	1981067.41	
4998.00	70.90	154.50	4658.33	-578.47	250.84	2.52	599.17	158381.53	1981079.84	
5029.00	72.90	153.90	4667.96	-605.00	263.66	6.71	626.77	158355.00	1981092.66	
5059.00	75.60	153.90	4676.10	-630.93	276.37	9.00	653.76	158329.07	1981105.37	
5091.00	78.80	154.30	4683.19	-658.99	289.99	10.07	682.96	158301.01	1981118.99	
5123.00	81.50	154.80	4688.67	-687.46	303.54	8.58	712.56	158272.54	1981132.54	
5154.00	83.40	155.30	4692.74	-715.32	316.50	6.33	741.50	158244.68	1981145.50	
5186.00	86.00	155.20	4695.69	-744.26	329.84	8.13	771.54	158215.74	1981158.84	
5199.00	87.10	155.00	4696.48	-756.03	335.30	8.60	783.77	158203.97	1981164.30	
5249.00	88.10	155.30	4698.57	-801.36	356.30	2.09	830.84	158158.64	1981185.30	
5280.00	87.70	154.60	4699.71	-829.42	369.42	2.60	860.00	158130.58	1981198.42	
5309.00	88.70	156.40	4700.62	-855.80	381.43	7.10	887.37	158104.20	1981210.43	
5340.00	90.40	159.20	4700.86	-884.49	393.15	10.57	917.03	158075.51	1981222.15	
5370.00	90.70	162.20	4700.57	-912.80	403.06	10.05	946.13	158047.20	1981232.06	
5401.00	89.90	165.20	4700.41	-942.55	411.76	10.02	976.56	158017.45	1981240.76	
5432.00	89.10	168.50	4700.68	-972.73	418.81	10.95	1007.26	157987.27	1981247.81	
5464.00	88.90	171.50	4701.24	-1004.24	424.37	9.39	1039.14	157955.76	1981253.37	
5495.00	89.00	171.90	4701.81	-1034.91	428.84	1.33	1070.10	157925.09	1981257.84	
5526.00	87.90	170.60	4702.65	-1065.54	433.55	5.49	1101.03	157894.46	1981262.55	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
 Page 4
 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
5557.00	87.00	168.50	4704.02	-1095.99	439.17	7.36	1131.87	157864.01	1981268.17	
5588.00	87.10	168.50	4705.62	-1126.33	445.34	0.32	1162.65	157833.67	1981274.34	
5620.00	88.70	168.00	4706.79	-1157.63	451.85	5.24	1194.42	157802.37	1981280.85	
5651.00	90.20	167.80	4707.09	-1187.94	458.35	4.88	1225.20	157772.06	1981287.35	
5682.00	90.50	168.20	4706.90	-1218.27	464.80	1.61	1255.99	157741.74	1981293.80	
5713.00	90.70	169.00	4706.58	-1248.65	470.92	2.66	1286.81	157711.35	1981299.92	
5744.00	90.90	170.10	4706.14	-1279.13	476.55	3.61	1317.68	157680.87	1981305.55	
5775.00	91.10	171.50	4705.60	-1309.73	481.50	4.56	1348.61	157650.27	1981310.50	
5806.00	91.70	172.90	4704.85	-1340.43	485.71	4.91	1379.57	157619.57	1981314.71	
5837.00	91.80	173.80	4703.90	-1371.21	489.30	2.92	1410.54	157588.79	1981318.30	
5868.00	92.20	174.70	4702.82	-1402.03	492.40	3.18	1441.52	157557.97	1981321.40	
5898.00	92.00	176.80	4701.72	-1431.93	494.62	7.03	1471.50	157528.07	1981323.62	
5926.00	91.40	178.00	4700.89	-1459.89	495.89	4.79	1499.45	157500.11	1981324.89	
5957.00	91.20	178.20	4700.18	-1490.86	496.92	0.91	1530.39	157469.14	1981325.92	
5989.00	91.50	178.70	4699.43	-1522.84	497.78	1.82	1562.31	157437.16	1981326.78	
6020.00	91.70	179.20	4698.56	-1553.83	498.35	1.74	1593.22	157406.18	1981327.35	
6051.00	91.70	179.60	4697.64	-1584.81	498.68	1.29	1624.10	157375.19	1981327.68	
6082.00	91.20	179.60	4696.86	-1615.80	498.89	1.61	1654.97	157344.20	1981327.89	
6113.00	91.20	179.40	4696.21	-1646.79	499.16	0.65	1685.86	157313.21	1981328.16	
6145.00	91.20	179.40	4695.54	-1678.78	499.50	0.00	1717.74	157281.22	1981328.50	
6175.00	91.40	179.60	4694.86	-1708.77	499.76	0.94	1747.63	157251.23	1981328.76	
6206.00	90.30	179.40	4694.40	-1739.77	500.03	3.61	1778.52	157220.23	1981329.03	
6237.00	89.80	180.10	4694.37	-1770.77	500.17	2.77	1809.40	157189.23	1981329.17	
6268.00	89.60	180.50	4694.54	-1801.77	500.00	1.44	1840.25	157158.23	1981329.00	
6298.00	89.50	180.10	4694.77	-1831.77	499.85	1.37	1870.11	157128.24	1981328.85	
6329.00	89.80	180.10	4694.96	-1862.77	499.79	0.97	1900.97	157097.24	1981328.79	
6360.00	90.00	180.30	4695.01	-1893.76	499.68	0.91	1931.82	157066.24	1981328.68	
6391.00	90.70	180.10	4694.82	-1924.76	499.58	2.35	1962.68	157035.24	1981328.58	
6423.00	91.10	180.10	4694.32	-1956.76	499.52	1.25	1994.54	157003.24	1981328.52	
6454.00	90.90	180.70	4693.78	-1987.75	499.30	2.04	2025.38	156972.25	1981328.30	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
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 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
6485.00	90.10	180.10	4693.51	-2018.75	499.09	3.23	2056.22	156941.25	1981328.09	
6516.00	90.10	179.80	4693.46	-2049.75	499.11	0.97	2087.09	156910.25	1981328.11	
6546.00	89.60	179.60	4693.54	-2079.75	499.27	1.80	2116.98	156880.25	1981328.27	
6577.00	88.40	179.20	4694.08	-2110.74	499.60	4.08	2147.87	156849.26	1981328.60	
6608.00	88.20	178.70	4695.00	-2141.73	500.16	1.74	2178.77	156818.28	1981329.16	
6639.00	88.60	178.40	4695.86	-2172.70	500.95	1.61	2209.69	156787.30	1981329.95	
6670.00	90.70	178.50	4696.05	-2203.69	501.79	6.78	2240.62	156756.31	1981330.79	
6701.00	90.80	178.20	4695.64	-2234.67	502.68	1.02	2271.55	156725.33	1981331.68	
6732.00	90.60	178.70	4695.27	-2265.66	503.52	1.74	2302.48	156694.34	1981332.52	
6764.00	90.00	178.50	4695.10	-2297.65	504.30	1.98	2334.41	156662.35	1981333.30	
6793.00	89.10	179.20	4695.33	-2326.64	504.88	3.93	2363.33	156633.36	1981333.88	
6824.00	88.60	178.90	4695.95	-2357.63	505.39	1.88	2394.24	156602.37	1981334.39	
6855.00	88.80	178.90	4696.65	-2388.62	505.99	0.65	2425.14	156571.38	1981334.99	
6886.00	89.10	179.20	4697.22	-2419.61	506.50	1.37	2456.05	156540.39	1981335.50	
6918.00	89.80	179.90	4697.53	-2451.61	506.75	3.09	2487.93	156508.40	1981335.75	
6947.00	90.30	179.90	4697.50	-2480.61	506.81	1.72	2516.81	156479.40	1981335.81	
6979.00	89.70	179.60	4697.50	-2512.61	506.94	2.10	2548.69	156447.40	1981335.94	
7009.00	89.10	179.60	4697.82	-2542.60	507.15	2.00	2578.58	156417.40	1981336.15	
7040.00	88.80	180.10	4698.38	-2573.60	507.24	1.88	2609.45	156386.40	1981336.24	
7071.00	89.60	180.80	4698.82	-2604.59	506.99	3.43	2640.29	156355.41	1981335.99	
7103.00	91.00	181.50	4698.65	-2636.59	506.35	4.89	2672.08	156323.42	1981335.35	
7134.00	91.60	181.00	4697.95	-2667.57	505.67	2.52	2702.87	156292.43	1981334.67	
7165.00	92.50	181.20	4696.84	-2698.54	505.08	2.97	2733.66	156261.46	1981334.08	
7197.00	93.80	181.40	4695.08	-2730.49	504.35	4.11	2765.40	156229.51	1981333.35	
7228.00	93.20	180.80	4693.19	-2761.42	503.76	2.73	2796.15	156198.58	1981332.76	
7260.00	92.70	180.80	4691.54	-2793.38	503.31	1.56	2827.93	156166.62	1981332.31	
7291.00	91.90	180.80	4690.29	-2824.35	502.88	2.58	2858.73	156135.65	1981331.88	
7322.00	90.80	180.80	4689.56	-2855.34	502.45	3.55	2889.54	156104.66	1981331.45	
7354.00	90.00	181.00	4689.34	-2887.33	501.95	2.58	2921.35	156072.67	1981330.95	
7385.00	92.00	181.00	4688.80	-2918.32	501.41	6.45	2952.16	156041.68	1981330.41	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
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 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
7415.00	92.70	180.80	4687.57	-2948.29	500.93	2.43	2981.96	156011.71	1981329.93	
7449.00	92.20	180.80	4686.12	-2982.26	500.46	1.47	3015.73	155977.74	1981329.46	
7481.00	90.60	180.80	4685.33	-3014.24	500.01	5.00	3047.54	155945.76	1981329.01	
7510.00	88.80	180.30	4685.49	-3043.24	499.74	6.44	3076.39	155916.76	1981328.74	
7539.00	88.60	180.30	4686.15	-3072.23	499.58	0.69	3105.24	155887.77	1981328.58	
7570.00	89.40	180.70	4686.69	-3103.23	499.31	2.89	3136.08	155856.77	1981328.31	
7601.00	89.60	180.70	4686.96	-3134.22	498.93	0.65	3166.91	155825.78	1981327.93	
7631.00	87.40	180.80	4687.74	-3164.21	498.54	7.34	3196.73	155795.79	1981327.54	
7663.00	87.10	181.00	4689.28	-3196.17	498.04	1.13	3228.51	155763.83	1981327.04	
7694.00	87.50	180.80	4690.74	-3227.13	497.55	1.44	3259.29	155732.87	1981326.55	
7725.00	88.80	180.70	4691.74	-3258.11	497.15	4.21	3290.10	155701.89	1981326.15	
7757.00	89.70	180.10	4692.16	-3290.11	496.92	3.38	3321.94	155669.90	1981325.92	
7789.00	89.80	180.70	4692.30	-3322.10	496.70	1.90	3353.78	155637.90	1981325.70	
7820.00	90.20	180.30	4692.30	-3353.10	496.43	1.82	3384.62	155606.90	1981325.43	
7851.00	90.60	180.30	4692.08	-3384.10	496.27	1.29	3415.47	155575.90	1981325.27	
7882.00	90.50	180.30	4691.78	-3415.10	496.11	0.32	3446.32	155544.90	1981325.11	
7914.00	89.80	180.10	4691.70	-3447.10	495.99	2.28	3478.18	155512.90	1981324.99	
7945.00	90.00	180.70	4691.75	-3478.10	495.78	2.04	3509.02	155481.90	1981324.78	
7976.00	90.20	180.50	4691.70	-3509.10	495.45	0.91	3539.86	155450.90	1981324.45	
8007.00	90.00	179.60	4691.64	-3540.10	495.43	2.97	3570.72	155419.91	1981324.43	
8038.00	89.90	179.60	4691.67	-3571.10	495.64	0.32	3601.61	155388.91	1981324.64	
8069.00	90.40	179.90	4691.59	-3602.09	495.78	1.88	3632.49	155357.91	1981324.78	
8100.00	90.70	179.80	4691.29	-3633.09	495.86	1.02	3663.36	155326.91	1981324.86	
8131.00	91.20	180.10	4690.78	-3664.09	495.89	1.88	3694.23	155295.91	1981324.89	
8163.00	90.50	179.40	4690.30	-3696.08	496.03	3.09	3726.10	155263.92	1981325.03	
8195.00	89.90	178.40	4690.19	-3728.08	496.64	3.64	3758.01	155231.92	1981325.64	
8225.00	89.90	178.50	4690.25	-3758.07	497.45	0.33	3787.95	155201.93	1981326.45	
8257.00	88.80	178.00	4690.61	-3790.05	498.43	3.78	3819.89	155169.95	1981327.43	
8288.00	88.80	177.70	4691.26	-3821.02	499.59	0.97	3850.83	155138.98	1981328.59	
8319.00	88.90	177.70	4691.88	-3851.99	500.83	0.32	3881.78	155108.01	1981329.83	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
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 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
8348.00	88.70	177.50	4692.49	-3880.96	502.05	0.98	3910.74	155079.04	1981331.05	
8379.00	88.60	178.20	4693.22	-3911.93	503.21	2.28	3941.68	155048.07	1981332.21	
8409.00	88.90	177.80	4693.87	-3941.90	504.26	1.67	3971.63	155018.10	1981333.26	
8441.00	89.50	178.00	4694.32	-3973.88	505.43	1.98	4003.57	154986.12	1981334.43	
8472.00	89.10	179.20	4694.70	-4004.86	506.19	4.08	4034.50	154955.14	1981335.19	
8502.00	88.90	179.60	4695.22	-4034.86	506.50	1.49	4064.39	154925.14	1981335.50	
8533.00	89.20	180.10	4695.73	-4065.85	506.58	1.88	4095.26	154894.15	1981335.58	
8565.00	89.50	179.60	4696.10	-4097.85	506.67	1.82	4127.13	154862.15	1981335.67	
8595.00	90.20	179.60	4696.18	-4127.85	506.88	2.33	4157.02	154832.15	1981335.88	
8626.00	90.70	179.90	4695.93	-4158.85	507.01	1.88	4187.90	154801.15	1981336.01	
8658.00	90.50	179.60	4695.60	-4190.85	507.15	1.13	4219.78	154769.15	1981336.15	
8689.00	89.90	179.40	4695.49	-4221.85	507.42	2.04	4250.67	154738.16	1981336.42	
8718.00	88.50	179.10	4695.89	-4250.84	507.80	4.94	4279.57	154709.16	1981336.80	
8748.00	88.40	178.70	4696.71	-4280.82	508.38	1.37	4309.48	154679.18	1981337.38	
8779.00	89.10	178.70	4697.38	-4311.81	509.08	2.26	4340.40	154648.19	1981338.08	
8810.00	89.40	178.90	4697.79	-4342.80	509.73	1.16	4371.31	154617.20	1981338.73	
8841.00	89.90	178.70	4697.98	-4373.79	510.38	1.74	4402.23	154586.21	1981339.38	
8872.00	90.10	179.60	4697.98	-4404.79	510.84	2.97	4433.14	154555.21	1981339.84	
8903.00	90.30	179.60	4697.87	-4435.79	511.06	0.65	4464.03	154524.22	1981340.06	
8935.00	90.80	179.40	4697.56	-4467.78	511.33	1.68	4495.91	154492.22	1981340.33	
8965.00	91.20	179.40	4697.04	-4497.78	511.65	1.33	4525.81	154462.22	1981340.65	
8996.00	91.00	179.40	4696.44	-4528.77	511.97	0.65	4556.70	154431.23	1981340.97	
9026.00	90.90	179.90	4695.95	-4558.76	512.16	1.70	4586.58	154401.24	1981341.16	
9057.00	90.70	179.40	4695.51	-4589.76	512.35	1.74	4617.46	154370.24	1981341.35	
9088.00	90.90	179.20	4695.08	-4620.75	512.72	0.91	4648.36	154339.25	1981341.72	
9119.00	90.80	179.90	4694.62	-4651.75	512.97	2.28	4679.25	154308.25	1981341.97	
9149.00	90.60	179.20	4694.25	-4681.75	513.20	2.43	4709.14	154278.25	1981342.20	
9180.00	90.90	179.80	4693.85	-4712.74	513.47	2.16	4740.02	154247.26	1981342.47	
9210.00	90.10	179.90	4693.59	-4742.74	513.55	2.69	4769.90	154217.26	1981342.55	
9241.00	89.20	180.70	4693.78	-4773.74	513.39	3.88	4800.75	154186.26	1981342.39	

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Michel 2H
 Location: Barber County, Kansas

Date: 24-May-2013
 Surveys
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 Job# : 7241

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD RKB (feet)	N/S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 174.70° (feet)	Az Grid Y	NAD27 Ks South gr elev=1479 RKB=1496 Grid X	Comments
9272.00	89.20	180.70	4694.21	-4804.73	513.01	0.00	4831.58	154155.27	1981342.01	
9303.00	89.40	180.70	4694.59	-4835.73	512.63	0.65	4862.41	154124.27	1981341.63	
9333.00	90.10	180.50	4694.72	-4865.73	512.32	2.43	4892.25	154094.27	1981341.32	
9364.00	89.70	180.30	4694.77	-4896.73	512.10	1.44	4923.10	154063.27	1981341.10	
9394.00	89.60	180.10	4694.96	-4926.73	512.00	0.75	4952.96	154033.27	1981341.00	
9423.00	89.70	179.80	4695.13	-4955.73	512.02	1.09	4981.83	154004.28	1981341.02	
9455.00	89.90	180.10	4695.24	-4987.73	512.05	1.13	5013.70	153972.28	1981341.05	
9485.00	89.60	180.10	4695.38	-5017.73	512.00	1.00	5043.57	153942.28	1981341.00	
9516.00	89.60	180.70	4695.59	-5048.72	511.78	1.94	5074.41	153911.28	1981340.78	
9547.00	88.90	180.50	4696.00	-5079.72	511.46	2.35	5105.25	153880.28	1981340.46	
9578.00	89.10	180.10	4696.54	-5110.71	511.30	1.44	5136.09	153849.29	1981340.30	
9609.00	89.80	180.10	4696.84	-5141.71	511.24	2.26	5166.95	153818.29	1981340.24	
9641.00	89.80	179.60	4696.95	-5173.71	511.32	1.56	5198.82	153786.29	1981340.32	
9672.00	89.80	179.20	4697.06	-5204.71	511.65	1.29	5229.72	153755.29	1981340.65	
9703.00	90.30	179.60	4697.03	-5235.71	511.97	2.07	5260.61	153724.29	1981340.97	
9735.00	90.70	179.60	4696.75	-5267.71	512.20	1.25	5292.50	153692.30	1981341.20	
9766.00	91.20	179.90	4696.24	-5298.70	512.33	1.88	5323.37	153661.30	1981341.33	
9795.00	90.80	179.20	4695.73	-5327.70	512.56	2.78	5352.26	153632.31	1981341.56	
9826.00	91.10	179.40	4695.22	-5358.69	512.94	1.16	5383.16	153601.31	1981341.94	
9857.00	91.10	178.90	4694.62	-5389.68	513.40	1.61	5414.06	153570.32	1981342.40	
9888.00	91.10	178.90	4694.02	-5420.67	513.99	0.00	5444.97	153539.33	1981342.99	
9920.00	91.50	179.10	4693.30	-5452.65	514.55	1.40	5476.87	153507.35	1981343.55	
9925.00	91.50	178.70	4693.17	-5457.65	514.65	8.00	5481.86	153502.35	1981343.65	
9970.00	91.50	178.70	4691.99	-5502.63	515.67	0.00	5526.73	153457.38	1981344.67	Survey projected

Prepared for		Company		Date		
Mr. Carl W. Durr		Woolsey Petroleum		5-Jun-13		
Well Name		Location		Type of Installation		
Michel 2H		Barber, KS		20-Stage 4-1/2" StackFRAC® HD		
Depth (MD/TVD)	Schematic	Description		OD (in.)	ID (in.)	Length (in.)
Page 1 of 3						
<i>Production Liner: 4-1/2" 11.60# N-80 LTC</i>				4.500"	4.000"	..
<i>Intermediate Casing: 7.00" 23.00# L-80 LTC</i>				7.000"	6.276"	
<i>Open Hole: 6-1/8"</i>						
TOL = 5150' 202bbbls		Packers Plus SF Liner Hanger Packer PN: 108425-000001 (3 Pins @ 482 PSI Ea. = 1446 PSI) Annular Release: 9 Pins @ 280 psi. = 2,520 4-1/2" Pup Joint: 3' Long		SNU0017992	5.880"	3.875" 9.89'
KOP = 4,027' MD TVD = 4,670'						
5150.74						
7" Shoe = 5237'						
		Notes: Dropped 2 stages tool # are FP 2.438" #5, RSII #6, FP 2.500" #7, and RSII #8				
5328'	47	4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long		JOINTS: 5	4.500" 4.500"	4.000" 4.000"
		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		HA1003878	5.750"	3.875" 14.38'
STAGE 20 5464' 207bbbls	45	Packers Plus 4-1/2" Drillable FracPort w/ 3.688" seat for a 3.751" SF-7 Frac Ball PN: 121332-000314 (6 Pins @ 315 PSI Ea. = 1890 PSI)		HA2003857	5.630"	3.688" 2.65'
					MILL OUT	TBD
5555'	44	4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long		JOINTS: 2	4.500" 4.500"	4.000" 4.000"
		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		HA1003872	5.750"	3.875" 14.40'
STAGE 19 5688' 211bbbls	43	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)		HA1002991	5.630"	3.625" 2.65'
					MILL OUT	TBD
5782'	42	4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long		JOINTS: 2	4.500" 4.500"	4.000" 4.000"
		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		HA1003876	5.750"	3.875" 14.43'
STAGE 18 5915' 214bbbls	41	Packers Plus 4-1/2" Drillable FracPort w/ 3.563" seat for a 3.626" SF-7 Frac Ball PN: 121332-000316 (6 Pins @ 315 PSI Ea. = 1890 PSI)		SNU0018089	5.630"	3.563" 2.65'
					MILL OUT	TBD
6005'	40	4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long		JOINTS: 2	4.500" 4.500"	4.000" 4.000"
		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		HA1002268	5.750"	3.875" 14.39'
STAGE 17 6139' 218bbbls	39	Packers Plus 4-1/2" Drillable FracPort w/ 3.500" seat for a 3.563" SF-7 Frac Ball PN: 121332-000023 (6 Pins @ 315 PSI Ea. = 1890 PSI)		SNU0016327	5.630"	3.500" 2.65'
					MILL OUT	TBD
6234'	38	4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long		JOINTS: 2	4.500" 4.500"	4.000" 4.000"
		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		HA1002234	5.750"	3.875" 14.43'
STAGE 16 6369' 221bbbls	37	Packers Plus 4-1/2" Drillable FracPort w/ 3.438" seat for a 3.501" SF-7 Frac Ball PN: 121332-000318 (6 Pins @ 315 PSI Ea. = 1890 PSI)		HA2003453	5.630"	3.438" 2.65'
					MILL OUT	TBD
6462'	36	4-1/2" 11.60# N-80 LTC LINER 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long		JOINTS: 2	4.500" 4.500"	4.000" 4.000"
		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		HA1002233	5.750"	3.875" 14.35'
STAGE 15 6597' 225bbbls	35	Packers Plus 4-1/2" Drillable FracPort w/ 3.375" seat for a 3.438" SF-7 Frac Ball PN: 121332-000022 (6 Pins @ 315 PSI Ea. = 1890 PSI)		EA0057589	5.630"	3.375" 2.65'
					MILL OUT	TBD
		4-1/2" 11.60# N-80 LTC LINER		JOINTS: 2	4.500"	4.000" 85.860'
Service Center	Telephone	Service Contact		Sales Contact		
Conway AR	501-327-0241	Gary Leber		Bruce Broussard - (713)969-8487		



Do It Once.
Do It Right.

CONFIDENTIAL
Not to be disclosed outside of
Woolsey Petroleum

Completion Final

Prepared for		Company		Date				
Mr. Carl W. Durr		Woolsey Petroleum		5-Jun-13				
Well Name		Location		Type of Installation				
Michel 2H		Barber, KS		20-Stage 4-1/2" StackFRAC® HD				
Depth (MD/TVD)	Schematic	Description		OD (in.)	ID (in.)	Length (in.)		
Page 2 of 3								
6692'		34	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003849	4.500" 5.750"	4.000" 3.875"	14.42'	
STAGE 14 6829' 229bbbls		33	Packers Plus 4-1/2" Drillable FracPort w/ 3.313" seat for a 3.376" SF-7 Frac Ball PN: 121332-000320 (6 Pins @ 315 PSI Ea. = 1890 PSI)	HA1003808	4.500" 4.500"	4.000" 4.000"	127.85'	
6922'		32	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003858	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.40'	
STAGE 13 7056' 232bbbls		31	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)	HA1003227	4.500" 4.500"	4.000" 4.000"	126.29'	
7147'		30	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003871	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.43'	
STAGE 12 7283' 236bbbls		29	Packers Plus 4-1/2" Drillable FracPort w/ 3.188" seat for a 3.251" SF-7 Frac Ball PN: 121332-000322 (6 Pins @ 315 PSI Ea. = 1890 PSI)	HA2003420	4.500" 4.500"	4.000" 4.000"	125.67'	
7373'		28	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003742	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.40'	
STAGE 11 7510' 239bbbls		27	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)	HA2003396	4.500" 4.500"	4.000" 4.000"	127.91'	
7604'		26	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003877	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.39'	
STAGE 10 7739' 243bbbls		25	Packers Plus 4-1/2" Drillable FracPort w/ 3.063" seat for a 3.126" SF-7 Frac Ball PN: 121332-000324 (6 Pins @ 315 PSI Ea. = 1890 PSI)	SNU0018069	4.500" 4.500"	4.000" 4.000"	126.02'	
7833'		24	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003861	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.41'	
STAGE 9 7968' 246bbbls		23	Packers Plus 4-1/2" Drillable FracPort w/ 3.000" seat for a 3.063" SF-7 Frac Ball PN: 121332-000019 (6 Pins @ 315 PSI Ea. = 1890 PSI)	HA2001382	4.500" 4.500"	4.000" 4.000"	126.25'	
8061'		22	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003870	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.41'	
STAGE 8 8198' 250bbbls		21	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)	SNU0018074	4.500" 4.500"	4.000" 4.000"	125.64'	
8292'		20	Packers Plus 7.00" x 4-1/2" RockSeal II 10K Hydraulic-Set Open Hole Centralized Packer 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER PN: 124929-000004 (4 Pins @ 522 PSI Ea. = 2088 PSI)	HA1003866	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.40'	
STAGE 7 8425' 253bbbls		19	Packers Plus 4-1/2" Drillable FracPort w/ 2.875" seat for a 2.938" SF-7 Frac Ball PN: 121332-000018 (6 Pins @ 315 PSI Ea. = 1890 PSI)	SNU0016077	4.500" 4.500"	4.000" 4.000"	124.60'	
						4.500" 4.500"	4.000" 4.000"	85.750'
Service Center		Telephone	Service Contact		Sales Contact			
Conway AR		501-327-0241	Gary Leber		Bruce Broussard - (713)969-8487			

Prepared for		Company		Date			
Mr. Carl W. Durr		Woolsey Petroleum		5-Jun-13			
Well Name		Location		Type of Installation			
Michel 2H		Barber, KS		20-Stage 4-1/2" StackFRAC® HD			
Depth (MD/TVD)	Schematic	Description		OD (in.)	ID (in.)	Length (in.)	
Page 3 of 3							
8520'		18	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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 4-1/2" 11.60# N-80 LTC LINER	HA1003857	4.500" 5.750"	4.000" 3.875"	14.38'
STAGE 6 8656' 257bbbls		17	4-1/2" 11.60# N-80 LTC LINER Packers Plus 4-1/2" Drillable FracPort w/ 2.813" seat for a 2.875" SF-7 Frac Ball PN: 121332-000328 (6 Pins @ 315 PSI Ea. = 1890 PSI)	SNU0018061	5.630" MILL OUT	2.813" TBD	2.65'
8750'		16	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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 4-1/2" 11.60# N-80 LTC LINER	HA1003744	5.750"	3.875"	14.39'
STAGE 5 8887' 251bbbls		15	4-1/2" 11.60# N-80 LTC LINER Packers Plus 4-1/2" Drillable FracPort w/2.750" seat for a 2.813" SF-7 Frac Ball PN: 121332-000329 (6 Pins @ 315 PSI Ea. = 1890 PSI)	HA1003799	5.630" MILL OUT	2.750" TBD	2.65'
8980'		14	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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 4-1/2" 11.60# N-80 LTC LINER	HA1003875	5.750"	3.875"	14.41'
STAGE 4 9116' 264bbbls		13	4-1/2" 11.60# N-80 LTC LINER 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)	HA1003678	5.630" MILL OUT	2.688" TBD	2.65'
9209'		12	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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 4-1/2" 11.60# N-80 LTC LINER	HA1003864	5.750"	3.875"	14.38'
STAGE 3 9344' 268bbbls		11	4-1/2" 11.60# N-80 LTC LINER 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)	HA1003300	5.630" MILL OUT	2.625" TBD	2.65'
9437'		10	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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 4-1/2" 11.60# N-80 LTC LINER	HA1003846	5.750"	3.875"	14.41'
STAGE 2 9573' 271bbbls		9	4-1/2" 11.60# N-80 LTC LINER Packers Plus 4-1/2" Drillable FracPort w/2.563" seat for a 2.625" SF-7 Frac Ball PN: 121332-000332 (6 Pins @ 315 PSI Ea. = 1890 PSI)	HA1003650	5.630" MILL OUT	2.563" TBD	2.65'
9667'		8	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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 4-1/2" 11.60# N-80 LTC LINER	HA1003860	4.500" 4.500" 5.750"	4.000" 4.000" 3.875"	14.41'
9763'		7	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long Packers Plus 7.00" x 4-1/2" RockSeal IIS 10K Hydraulic-Set Open Hole Anchor Packer PN: 124306-000014 (6 Pins @ 324 PSI Ea. = 1944 PSI) 4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER	SNU0017239	4.500" 4.500" 4.500" 5.810"	4.000" 4.000" 4.000" 3.875"	16.45'
STAGE 1 9862' 275bbbls		6	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 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)	SNU0016435	4.500" 4.500" 4.500" 5.630"	4.000" 4.000" 4.000" 3.875"	13.50'
Toe Sub 9918' 276bbbls		5	4-1/2" 11.60# N-80 LTC Pup Joint: 3' Long 4-1/2" 11.60# N-80 LTC LINER		4.500" 4.500"	4.000" 4.000"	42.860'
TMD = 9970'		4	4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long Packers Plus 4-1/2" Toe Circulating Sub w/ 1.000" seat for 1.250" Ceramic Ball PN: 103039-000011 (3 Pins @ 366 PSI = 1098 Shear) 4-1/2" Float Collar PN: 104733 4-1/2" 11.60# N-80 LTC Pup Joint: 6' Long 4-1/2" Float Collar PN: 104733 4-1/2" Guide Shoe PN: 121704	HA2002688	4.500" 5.000" 5.500"	4.000" 3.890" 2.250"	1.472' 0.917'
Service Center Conway AR	Telephone 501-327-0241	Service Contact Gary Leber	Sales Contact Bruce Broussard - (713)969-8487				

PACKERS PLUS - PACKER PLACEMENT

Item	Description	Length	Landed @	Accumulated	Proposed
			Actual MD		
			9930.00		
	Guide Shoe	0.09	9929.91	0.09	
	Float Collar	1.34	9928.57	1.43	
	Pup Joint	6.09	9922.48	7.52	
	Float Collar	1.35	9921.13	8.87	
	Toe Sub #1	2.70	9918.43	11.57	
	Pup Joint	6.08	9912.35	17.65	
1	4.5" 11.6ppf LTC N-80	42.86	9869.49	60.51	
	Pup Joint	3.08	9866.41	63.59	
	DEH #2	4.33	9862.08	67.92	Stage 1
	Pup Joint	6.09	9855.99	74.01	
2	4.5" 11.6ppf LTC N-80	42.89	9813.10	116.90	
3	4.5" 11.6ppf LTC N-80	38.86	9774.24	155.76	
	Pup Joint	3.09	9771.15	158.85	
	RSIIs #3	7.18	9763.97	166.03	
	Pup Joint	6.18	9757.79	172.21	
4	4.5" 11.6ppf LTC N-80	42.91	9714.88	215.12	
5	4.5" 11.6ppf LTC N-80	38.83	9676.05	253.95	
	Pup Joint	3.09	9672.96	257.04	
	RSII #4	5.23	9667.73	262.27	
	Pup Joint	6.09	9661.64	268.36	
6	4.5" 11.6ppf LTC N-80	42.89	9618.75	311.25	
7	4.5" 11.6ppf LTC N-80	42.91	9575.84	354.16	
	(2.563") Frac Port #9	2.65	9573.19	356.81	Stage 2
8	4.5" 11.6ppf LTC N-80	41.81	9531.38	398.62	
9	4.5" 11.6ppf LTC N-80	42.86	9488.52	441.48	
10	4.5" 11.6ppf LTC N-80	42.89	9445.63	484.37	
	Pup Joint	3.09	9442.54	487.46	
	RSII #10	5.22	9437.32	492.68	
	Pup Joint	6.19	9431.13	498.87	
11	4.5" 11.6ppf LTC N-80	40.64	9390.49	539.51	
12	4.5" 11.6ppf LTC N-80	42.90	9347.59	582.41	
	(2.625") Frac Port #11	2.65	9344.94	585.06	Stage 3
13	4.5" 11.6ppf LTC N-80	41.86	9303.08	626.92	
14	4.5" 11.6ppf LTC N-80	42.86	9260.22	669.78	
15	4.5" 11.6ppf LTC N-80	42.04	9218.18	711.82	
	Pup Joint	3.09	9215.09	714.91	
	RSII #12	5.22	9209.87	720.13	
	Pup Joint	6.18	9203.69	726.31	
16	4.5" 11.6ppf LTC N-80	42.14	9161.55	768.45	
17	4.5" 11.6ppf LTC N-80	42.86	9118.69	811.31	
	(2.688") Frac Port #13	2.65	9116.04	813.96	Stage 4
18	4.5" 11.6ppf LTC N-80	42.86	9073.18	856.82	
19	4.5" 11.6ppf LTC N-80	42.87	9030.31	899.69	
20	4.5" 11.6ppf LTC N-80	41.84	8988.47	941.53	

PACKERS PLUS - PACKER PLACEMENT

	Pup Joint	3.09	8985.38	944.62	
	RSII #14	5.22	8980.16	949.84	
	Pup Joint	6.10	8974.06	955.94	
21	4.5" 11.6ppf LTC N-80	40.69	8933.37	996.63	
22	4.5" 11.6ppf LTC N-80	42.87	8890.50	1039.50	
	(2.750") Frac Port #15	2.65	8887.85	1042.15	Stage 5
23	4.5" 11.6ppf LTC N-80	42.87	8844.98	1085.02	
24	4.5" 11.6ppf LTC N-80	42.86	8802.12	1127.88	
25	4.5" 11.6ppf LTC N-80	42.90	8759.22	1170.78	
	Pup Joint	3.09	8756.13	1173.87	
	RSII #16	5.23	8750.90	1179.10	
	Pup Joint	6.06	8744.84	1185.16	
26	4.5" 11.6ppf LTC N-80	42.86	8701.98	1228.02	
27	4.5" 11.6ppf LTC N-80	42.91	8659.07	1270.93	
	(2.813") Frac Port #17	2.65	8656.42	1273.58	Stage 6
28	4.5" 11.6ppf LTC N-80	41.96	8614.46	1315.54	
29	4.5" 11.6ppf LTC N-80	42.89	8571.57	1358.43	
30	4.5" 11.6ppf LTC N-80	42.87	8528.70	1401.30	
	Pup Joint	3.09	8525.61	1404.39	
	RSII #18	5.22	8520.39	1409.61	
	Pup Joint	6.10	8514.29	1415.71	
31	4.5" 11.6ppf LTC N-80	42.89	8471.40	1458.60	
32	4.5" 11.6ppf LTC N-80	42.86	8428.54	1501.46	
	(2.875") Frac Port #19	2.65	8425.89	1504.11	Stage 7
33	4.5" 11.6ppf LTC N-80	42.11	8383.78	1546.22	
34	4.5" 11.6ppf LTC N-80	41.80	8341.98	1588.02	
35	4.5" 11.6ppf LTC N-80	40.69	8301.29	1628.71	
	Pup Joint	3.10	8298.19	1631.81	
	RSII #20	5.22	8292.97	1637.03	
	Pup Joint	6.07	8286.90	1643.10	
36	4.5" 11.6ppf LTC N-80	42.86	8244.04	1685.96	
37	4.5" 11.6ppf LTC N-80	42.89	8201.15	1728.85	
	(2.938") Frac Port #21	2.65	8198.50	1731.50	Stage 8
38	4.5" 11.6ppf LTC N-80	42.89	8155.61	1774.39	
39	4.5" 11.6ppf LTC N-80	42.87	8112.74	1817.26	
40	4.5" 11.6ppf LTC N-80	42.88	8069.86	1860.14	
	Pup Joint	3.09	8066.77	1863.23	
	RSII #22	5.23	8061.54	1868.46	
	Pup Joint	6.06	8055.48	1874.52	
41	4.5" 11.6ppf LTC N-80	41.81	8013.67	1916.33	
42	4.5" 11.6ppf LTC N-80	42.87	7970.80	1959.20	
	(3.000") Frac Port #23	2.65	7968.15	1961.85	Stage 9
43	4.5" 11.6ppf LTC N-80	42.86	7925.29	2004.71	
44	4.5" 11.6ppf LTC N-80	40.50	7884.79	2045.21	
45	4.5" 11.6ppf LTC N-80	42.89	7841.90	2088.10	
	Pup Joint	3.08	7838.82	2091.18	
	RSII #24	5.23	7833.59	2096.41	
	Pup Joint	6.09	7827.50	2102.50	

PACKERS PLUS - PACKER PLACEMENT

46	4.5" 11.6ppf LTC N-80	42.88	7784.62	2145.38	
47	4.5" 11.6ppf LTC N-80	42.90	7741.72	2188.28	
	(3.063") Frac Port #25	2.65	7739.07	2190.93	Stage 10
48	4.5" 11.6ppf LTC N-80	41.23	7697.84	2232.16	
49	4.5" 11.6ppf LTC N-80	41.89	7655.95	2274.05	
50	4.5" 11.6ppf LTC N-80	42.90	7613.05	2316.95	
	Pup Joint	3.10	7609.95	2320.05	
	RSII #26	5.23	7604.72	2325.28	
	Pup Joint	6.08	7598.64	2331.36	
51	4.5" 11.6ppf LTC N-80	42.89	7555.75	2374.25	
52	4.5" 11.6ppf LTC N-80	42.90	7512.85	2417.15	
	(3.125") Frac Port #27	2.65	7510.20	2419.80	Stage 11
53	4.5" 11.6ppf LTC N-80	42.86	7467.34	2462.66	
54	4.5" 11.6ppf LTC N-80	42.86	7424.48	2505.52	
55	4.5" 11.6ppf LTC N-80	42.19	7382.29	2547.71	
	Pup Joint	3.08	7379.21	2550.79	
	RSII #28	5.23	7373.98	2556.02	
	Pup Joint	6.10	7367.88	2562.12	
56	4.5" 11.6ppf LTC N-80	42.90	7324.98	2605.02	
57	4.5" 11.6ppf LTC N-80	39.16	7285.82	2644.18	
	(3.188") Frac Port #29	2.65	7283.17	2646.83	Stage 12
58	4.5" 11.6ppf LTC N-80	41.93	7241.24	2688.76	
59	4.5" 11.6ppf LTC N-80	42.85	7198.39	2731.61	
60	4.5" 11.6ppf LTC N-80	42.89	7155.50	2774.50	
	Pup Joint	3.08	7152.42	2777.58	
	RSII #30	5.24	7147.18	2782.82	
	Pup Joint	6.07	7141.11	2788.89	
61	4.5" 11.6ppf LTC N-80	39.16	7101.95	2828.05	
62	4.5" 11.6ppf LTC N-80	42.87	7059.08	2870.92	
	(3.250") Frac Port #31	2.65	7056.43	2873.57	Stage 13
63	4.5" 11.6ppf LTC N-80	40.16	7016.27	2913.73	
64	4.5" 11.6ppf LTC N-80	42.86	6973.41	2956.59	
65	4.5" 11.6ppf LTC N-80	42.18	6931.23	2998.77	
	Pup Joint	3.08	6928.15	3001.85	
	RSII #32	5.24	6922.91	3007.09	
	Pup Joint	6.08	6916.83	3013.17	
66	4.5" 11.6ppf LTC N-80	42.89	6873.94	3056.06	
67	4.5" 11.6ppf LTC N-80	42.91	6831.03	3098.97	
	(3.313") Frac Port #33	2.65	6828.38	3101.62	Stage 14
68	4.5" 11.6ppf LTC N-80	42.08	6786.30	3143.70	
69	4.5" 11.6ppf LTC N-80	42.89	6743.41	3186.59	
70	4.5" 11.6ppf LTC N-80	42.88	6700.53	3229.47	
	Pup Joint	3.08	6697.45	3232.55	
	RSII #34	5.24	6692.21	3237.79	
	Pup Joint	6.11	6686.10	3243.90	
71	4.5" 11.6ppf LTC N-80	42.87	6643.23	3286.77	
72	4.5" 11.6ppf LTC N-80	42.99	6600.24	3329.76	
	(3.375") Frac Port #35	2.65	6597.59	3332.41	Stage 15

PACKERS PLUS - PACKER PLACEMENT

73	4.5" 11.6ppf LTC N-80	42.11	6555.48	3374.52	
74	4.5" 11.6ppf LTC N-80	43.07	6512.41	3417.59	
75	4.5" 11.6ppf LTC N-80	41.40	6471.01	3458.99	
	Pup Joint	3.08	6467.93	3462.07	
	RSII #36	5.23	6462.70	3467.30	
	Pup Joint	6.09	6456.61	3473.39	
76	4.5" 11.6ppf LTC N-80	42.99	6413.62	3516.38	
77	4.5" 11.6ppf LTC N-80	41.19	6372.43	3557.57	
	(3.438") Frac Port #37	2.65	6369.78	3560.22	Stage 16
78	4.5" 11.6ppf LTC N-80	42.19	6327.59	3602.41	
79	4.5" 11.6ppf LTC N-80	42.90	6284.69	3645.31	
80	4.5" 11.6ppf LTC N-80	41.85	6242.84	3687.16	
	Pup Joint	3.09	6239.75	3690.25	
	RSII #38	5.23	6234.52	3695.48	
	Pup Joint	6.10	6228.42	3701.58	
81	4.5" 11.6ppf LTC N-80	42.89	6185.53	3744.47	
82	4.5" 11.6ppf LTC N-80	42.89	6142.64	3787.36	
	(3.500") Frac Port #39	2.65	6139.99	3790.01	Stage 17
83	4.5" 11.6ppf LTC N-80	42.88	6097.11	3832.89	
84	4.5" 11.6ppf LTC N-80	40.11	6057.00	3873.00	
85	4.5" 11.6ppf LTC N-80	42.89	6014.11	3915.89	
	Pup Joint	3.08	6011.03	3918.97	
	RSII #40	5.22	6005.81	3924.19	
	Pup Joint	6.05	5999.76	3930.24	
86	4.5" 11.6ppf LTC N-80	42.89	5956.87	3973.13	
87	4.5" 11.6ppf LTC N-80	38.80	5918.07	4011.93	
	(3.563") Frac Port #41	2.65	5915.42	4014.58	Stage 18
88	4.5" 11.6ppf LTC N-80	40.08	5875.34	4054.66	
89	4.5" 11.6ppf LTC N-80	42.89	5832.45	4097.55	
90	4.5" 11.6ppf LTC N-80	41.27	5791.18	4138.82	
	Pup Joint	3.09	5788.09	4141.91	
	RSII #42	5.22	5782.87	4147.13	
	Pup Joint	6.12	5776.75	4153.25	
91	4.5" 11.6ppf LTC N-80	43.02	5733.73	4196.27	
92	4.5" 11.6ppf LTC N-80	42.87	5690.86	4239.14	
	(3.625") Frac Port #43	2.65	5688.21	4241.79	Stage 19
93	4.5" 11.6ppf LTC N-80	42.16	5646.05	4283.95	
94	4.5" 11.6ppf LTC N-80	39.06	5606.99	4323.01	
95	4.5" 11.6ppf LTC N-80	42.87	5564.12	4365.88	
	Pup Joint	3.08	5561.04	4368.96	
	RSII #44	5.23	5555.81	4374.19	
	Pup Joint	6.08	5549.73	4380.27	
96	4.5" 11.6ppf LTC N-80	42.16	5507.57	4422.43	
97	4.5" 11.6ppf LTC N-80	40.46	5467.11	4462.89	
	(3.688") Frac Port #45	2.65	5464.46	4465.54	Stage 20
98	4.5" 11.6ppf LTC N-80	42.89	5421.57	4508.43	
99	4.5" 11.6ppf LTC N-80	42.63	5378.94	4551.06	
100	4.5" 11.6ppf LTC N-80	42.11	5336.83	4593.17	

PACKERS PLUS - PACKER PLACEMENT

	Pup Joint	3.09	5333.74	4596.26	
	RSII #46	5.23	5328.51	4601.49	
	Pup Joint	6.11	5322.40	4607.60	
101	4.5" 11.6ppf LTC N-80	42.96	5279.44	4650.56	
102	4.5" 11.6ppf LTC N-80	40.06	5239.38	4690.62	
103	4.5" 11.6ppf LTC N-80	42.90	5196.48	4733.52	
104	4.5" 11.6ppf LTC N-80	39.13	5157.35	4772.65	
	Pup Joint	3.06	5154.29	4775.71	
	Bottom Conn.	1.03	5153.26	4776.74	
	Liner Hanger Packer #47	2.52	5150.74	4779.26	
	Lower Lock	2.82	5147.92	4782.08	
	Lower Setting Sleeve	1.64	5146.28	4783.72	
	Upper Setting sleeve	2.83	5143.45	4786.55	
	Top Conn.	1.03	5142.42	4787.58	
	Handling Sub	7.89	5134.53	4795.47	
1	4" 14ppf Drill Pipe	63.70	5070.83	4859.17	
2	4" 14ppf Drill Pipe	62.49	5008.34	4921.66	
3	4" 14ppf Drill Pipe	62.20	4946.14	4983.86	
4	4" 14ppf Drill Pipe	62.62	4883.52	5046.48	
5	4" 14ppf Drill Pipe	62.45	4821.07	5108.93	
6	4" 14ppf Drill Pipe	63.00	4758.07	5171.93	
7	4" 14ppf Drill Pipe	60.33	4697.74	5232.26	
8	4" 14ppf Drill Pipe	61.80	4635.94	5294.06	
9	4" 14ppf Drill Pipe	62.55	4573.39	5356.61	
10	4" 14ppf Drill Pipe	62.45	4510.94	5419.06	
11	4" 14ppf Drill Pipe	63.13	4447.81	5482.19	
12	4" 14ppf Drill Pipe	62.20	4385.61	5544.39	
13	4" 14ppf Drill Pipe	61.98	4323.63	5606.37	
14	4" 14ppf Drill Pipe	62.80	4260.83	5669.17	
15	4" 14ppf Drill Pipe	62.59	4198.24	5731.76	
16	4" 14ppf Drill Pipe	58.78	4139.46	5790.54	
17	4" 14ppf Drill Pipe	62.63	4076.83	5853.17	
18	4" 14ppf Drill Pipe	60.10	4016.73	5913.27	
19	4" 14ppf Drill Pipe	62.15	3954.58	5975.42	
20	4" 14ppf Drill Pipe	61.50	3893.08	6036.92	
21	4" 27.5ppf HW Drill Pipe	61.03	3832.05	6097.95	
22	4" 27.5ppf HW Drill Pipe	61.62	3770.43	6159.57	
23	4" 27.5ppf HW Drill Pipe	61.14	3709.29	6220.71	
24	4" 27.5ppf HW Drill Pipe	61.00	3648.29	6281.71	
25	4" 27.5ppf HW Drill Pipe	61.74	3586.55	6343.45	
26	4" 27.5ppf HW Drill Pipe	61.02	3525.53	6404.47	
27	4" 27.5ppf HW Drill Pipe	61.62	3463.91	6466.09	
28	4" 27.5ppf HW Drill Pipe	61.94	3401.97	6528.03	
29	4" 27.5ppf HW Drill Pipe	61.32	3340.65	6589.35	
30	4" 27.5ppf HW Drill Pipe	61.20	3279.45	6650.55	
31	4" 27.5ppf HW Drill Pipe	60.21	3219.24	6710.76	
32	4" 27.5ppf HW Drill Pipe	62.18	3157.06	6772.94	
33	4" 27.5ppf HW Drill Pipe	60.90	3096.16	6833.84	

PACKERS PLUS - PACKER PLACEMENT

34	4" 27.5ppf HW Drill Pipe	61.44	3034.72	6895.28	
35	4" 27.5ppf HW Drill Pipe	60.75	2973.97	6956.03	
36	4" 27.5ppf HW Drill Pipe	61.45	2912.52	7017.48	
37	4" 27.5ppf HW Drill Pipe	61.85	2850.67	7079.33	
38	4" 27.5ppf HW Drill Pipe	60.42	2790.25	7139.75	
39	4" 27.5ppf HW Drill Pipe	60.40	2729.85	7200.15	
40	4" 27.5ppf HW Drill Pipe	61.64	2668.21	7261.79	
41	4" 27.5ppf HW Drill Pipe	61.44	2606.77	7323.23	
42	4" 27.5ppf HW Drill Pipe	61.90	2544.87	7385.13	
43	4" 27.5ppf HW Drill Pipe	61.46	2483.41	7446.59	
44	4" 27.5ppf HW Drill Pipe	61.03	2422.38	7507.62	
45	4" 27.5ppf HW Drill Pipe	61.35	2361.03	7568.97	
46	4" 27.5ppf HW Drill Pipe	61.29	2299.74	7630.26	
47	4" 27.5ppf HW Drill Pipe	60.67	2239.07	7690.93	
1	4 3/4" Collars	30.89	2208.18	7721.82	
2	4 3/4" Collars	29.60	2178.58	7751.42	
3	4 3/4" Collars	29.39	2149.19	7780.81	
4	4 3/4" Collars	30.00	2119.19	7810.81	
5	4 3/4" Collars	30.67	2088.52	7841.48	
6	4 3/4" Collars	30.33	2058.19	7871.81	
7	4 3/4" Collars	30.58	2027.61	7902.39	
8	4 3/4" Collars	29.76	1997.85	7932.15	
9	4 3/4" Collars	30.44	1967.41	7962.59	
10	4 3/4" Collars	30.87	1936.54	7993.46	
11	4 3/4" Collars	30.82	1905.72	8024.28	
12	4 3/4" Collars	30.44	1875.28	8054.72	
13	4 3/4" Collars	30.58	1844.70	8085.30	
14	4 3/4" Collars	29.89	1814.81	8115.19	
15	4 3/4" Collars	29.69	1785.12	8144.88	
16	4 3/4" Collars	30.58	1754.54	8175.46	
17	4 3/4" Collars	30.40	1724.14	8205.86	
18	4 3/4" Collars	30.68	1693.46	8236.54	
19	4 3/4" Collars	30.87	1662.59	8267.41	
20	4 3/4" Collars	31.77	1630.82	8299.18	
1	4" 14ppf Drill Pipe	63.02	1567.80	8362.20	
2	4" 14ppf Drill Pipe	60.48	1507.32	8422.68	
3	4" 14ppf Drill Pipe	61.54	1445.78	8484.22	
4	4" 14ppf Drill Pipe	62.02	1383.76	8546.24	
5	4" 14ppf Drill Pipe	60.52	1323.24	8606.76	
6	4" 14ppf Drill Pipe	62.80	1260.44	8669.56	
7	4" 14ppf Drill Pipe	62.16	1198.28	8731.72	
8	4" 14ppf Drill Pipe	62.20	1136.08	8793.92	
9	4" 14ppf Drill Pipe	62.89	1073.19	8856.81	
10	4" 14ppf Drill Pipe	62.42	1010.77	8919.23	
11	4" 14ppf Drill Pipe	59.70	951.07	8978.93	
12	4" 14ppf Drill Pipe	62.56	888.51	9041.49	
13	4" 14ppf Drill Pipe	60.84	827.67	9102.33	
14	4" 14ppf Drill Pipe	62.58	765.09	9164.91	

P.O. # _____

BIG BUCKETS RATHOLE DRILLING

No 5217

ORDERED BY

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

Date 4/17/13

Bill To

Wealson Operating LLC

Lease

Michel # 2-H

Address

Legal

Sec 7-345-11W

County

Barber, Ok.

Rig

Ron O Nigg # 11

DESCRIPTION	AMOUNT
Furnish Men & Equipment To <u>fill rat mouse holes about 5 mi. E 5' 60" diam & 41 ft. of 30" hole - remove dirt off loc.</u>	
Materials Furnished <u>41 ft. of 30" pipe - 4 yds of gravel, 5' 60" timber (cellulose) 50 ft. of 15" timber (both K&M) Walker & Plate - K's trip permits</u>	\$ 6765.00
Operator <u>Dean Whittington</u> Approved By _____ Total	\$ 6765.00

ALLIED OIL & GAS SERVICES, LLC 059309

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge

DATE <u>4-24-13</u>	SEC <u>17</u>	TWP. <u>3415</u>	RANGE <u>11W</u>	CALLED OUT <u>5:30 PM</u>	ON LOCATION <u>9:50 AM</u>	JOB START <u>2:05 PM</u>	JOB FINISH <u>2:45 AM</u>
LEASE <u>Michel</u>	WELL # <u>214</u>	LOCATION <u>14 miles South of</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>Medicine Lodge on 281</u>			

CONTRACTOR Dan D
 TYPE OF JOB Surface
 HOLE SIZE 17 1/2 T.D. 3410'
 CASING SIZE 13 3/8 DEPTH 336'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 500 MINIMUM
 MEAS. LINE SHOE JOINT 20'
 CEMENT LEFT IN CSG. 3.14 bbls
 PERFS.
 DISPLACEMENT 49.61 bbls

OWNER Wesley Operating Co.
 CEMENT
 AMOUNT ORDERED 330 sks Class A,
3% Cel. 21 Cel

EQUIPMENT

PUMP TRUCK CEMENTER Patrick Helgeson
 # 360 HELPER Jason Thimesch
 BULK TRUCK
 # 381 DRIVER Joe Halcomb
 BULK TRUCK
 # _____ DRIVER

COMMON	<u>330 sk 11" @</u>	<u>17.90</u>	<u>5907.00</u>
POZMIX		@	
GEL	<u>7 sk</u>	<u>23.40</u>	<u>163.80</u>
CHLORIDE	<u>12 sk</u>	<u>64.00</u>	<u>768.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>356.8</u>	<u>@ 2.48</u>	<u>884.86</u>
MILEAGE	<u>16.29 x 14 x 2.10</u>		<u>598.96</u>
TOTAL			<u>\$8316.62</u>

REMARKS:
Pumped 5 bbls water spacer,
Pumped 79 bbls cement @ 15.2 PPM,
Displaced 49.61 bbls of water,
Spaced 3.14 bbls cement @ bottom of
Casing space 20' of fill.
circulated 34 bbls of cement to surface.

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1512.95</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>15</u>	<u>@ 7.70</u>	<u>115.50</u>
MANIFOLD	@		
<u>LV</u>	<u>15</u>	<u>@ 4.40</u>	<u>66.00</u>
	@		
TOTAL			<u>\$1693.75</u>

CHARGE TO: Wesley Operating
 STREET 125 N. Market STE 1000
 CITY Wichita STATE KS ZIP 67202

PLUG & FLOAT EQUIPMENT

<u>NA</u>	@	
	@	
	@	
	@	
	@	
TOTAL		

WELL FILE

Regulatory Correspondence
 To: Allied Oil & Gas Services, LLC
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Helgeson
 SIGNATURE Mike Helgeson

SALES TAX (If Any) _____
 TOTAL CHARGES \$10,010.37
 DISCOUNT \$2002.07 IF PAID IN 30 DAYS
Net \$8008.30

ALLIED OIL & GAS SERVICES, LLC

59852

Federal Tax I.D.# 20-5975304

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

SERVICE POINT: Medicine Lodge KS

DATE <u>05/05/13</u>	SEC. <u>7</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Michel</u> WELL# <u>2-H</u> LOCATION <u>Med Lodge KS, South on 281st</u>						COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>land fill, set into</u>			

CONTRACTOR Dan D
 TYPE OF JOB Production
 HOLE SIZE 8 3/4 T.D. 5245
 CASING SIZE 7 DEPTH 5237
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1200 MINIMUM
 MEAS. LINE SHOE JOINT 44
 CEMENT LEFT IN CSG. 44
 PERFS.
 DISPLACEMENT 207 BBLs Fresh H₂O

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 50 sx 60:40:4% G-l,
150 sx Class H 10% Gypsum 10% S&K + 6# Kalseal +
5% FL-160 + 4# Floseal
 COMMON Class A 30 sx @ 17.90 537.00
 POZMIX 20 sx @ 9.25 187.00
 GEL 2 sx @ 23.40 46.80
 CHLORIDE @
 ASC @
 Common Class H 150 sx @ 21.20 3180.00
 Gypsum 14 sx @ 37.60 526.40
 Salt 16 sx @ 26.55 421.60
 Kalseal 900 lbs @ 0.98 882.00
 FL-160 70.5 lbs @ 18.90 1332.45
 Floseal 37.5 lbs @ 2.97 111.37
 HANDLING 252 cuft @ 2.48 626.59
 MILEAGE 1089 tons x 15 mi x 2.60 425.08
 TOTAL 8276.09

EQUIPMENT
 PUMP TRUCK CEMENTER Jason Thinerch
 # 558/555 HELPER Scott Paddy
 BULK TRUCK
 # 421/250 DRIVER James Bowen
 BULK TRUCK
 # DRIVER

REMARKS:
Plug Did Hold

CHARGE TO: Woolsey Operating
 STREET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB 5237
 PUMP TRUCK CHARGE 3099.25
 EXTRA FOOTAGE @
 MILEAGE 15 mi @ 7.70 115.50
 MANIFOLD + Head @ 275
 LV 15 mi @ 4.40 66.00
 TOTAL 3555.75

WELL FILE

Regulatory Correspondence
 Drilling / Comp Workovers
 Tests / Meters Operations

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.

PLUG & FLOAT EQUIPMENT
7"
 Float shoe @ 712.53
 Float collar @ 886.86
 TOTAL 1599.39

PRINTED NAME MIKE THARP
 SIGNATURE MIKE THARP

SALES TAX (If Any)
 TOTAL CHARGES 13,431.23
 DISCOUNT (NET) 10,744.98 IF PAID IN 30 DAYS

JUN 13 2013



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Michel #2 H

Location: Section 7 - Township 34 South - Range 11 West

License Number: 15-007-24014-01-00

Region: Barber County, KS

Spud Date:

Drilling Completed:

Surface Coordinates:

2170' FNL & 620' FWL

Apx. NE SW SW NW

Bottom Hole Coordinates:

Ground Elevation (ft): 1496'

K.B. Elevation (ft): 1479'

Logged Interval (ft): 3600'

To:

Total Depth (ft):

Formation: Heebner >>> Mississippi

Type of Drilling Fluid: Chemical Mud

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

OPERATOR

Company: Woolsey Operating Company, LLC

Address: 125 N. Market, Suite 1000

Wichita, KS 67202

GEOLOGIST

Name: Bill Klaver

Company: Woolsey Operating Co. LLC

Address: 125 N. Market, Wichita Kansas, 67202

Casing/Bits

Big Bucket's set 20" X 53#/ft conductor to 41' with 4 yards of grout on April 17, 2013.

Ran 8 joints of new 13 3/8" X 54.5#/ft casing to 336' KB (tally 336') with 330 sx Class A, 2% gel, 3% cc. Plud down 3 am on 4/24/2013. Cement did circulate.

Bit Record: 1) 17 1/2" Sec. RRRT out at 340', 2) 12 1/4" JZ RR RT out at 800', 3) 8 3/4" Reed R-23-A out at 4023', 4) 8 3/4" Reed R-25-APDH out at

Remarks:

Gas Detector: Woolsey Operating Company, Gas Trailer #2

Mud Systems: Mud-Co. Brad Bortz, Terry Ibson, Engineers

Directional Input: Calmena Energy Services, Heath Marshal, Mark Sanders Directional Drillers

MWD Hands: Shane Lewis, David Jay


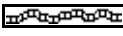
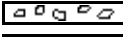
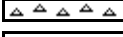


Crews:






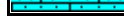
Tool Pushers: Steve Ellington, Rellief: Sammy Fry


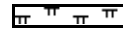




Daytime Drillers: Jack Lambert, Johnnie Stone






Night Drillers: Tanner Barber, Terry Stark

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal

 Congl
 Sdy dolo
 Shy dolo
 Dol
 Gyp
 Sdy lmst

 Lmst
 Mrlst
 Salt
 Shale
 Sltst
 Ss

 Black sh
 Gry sh
 Shale
 Shysltst
 Sltsh

ACCESSORIES

MINERAL

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

- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

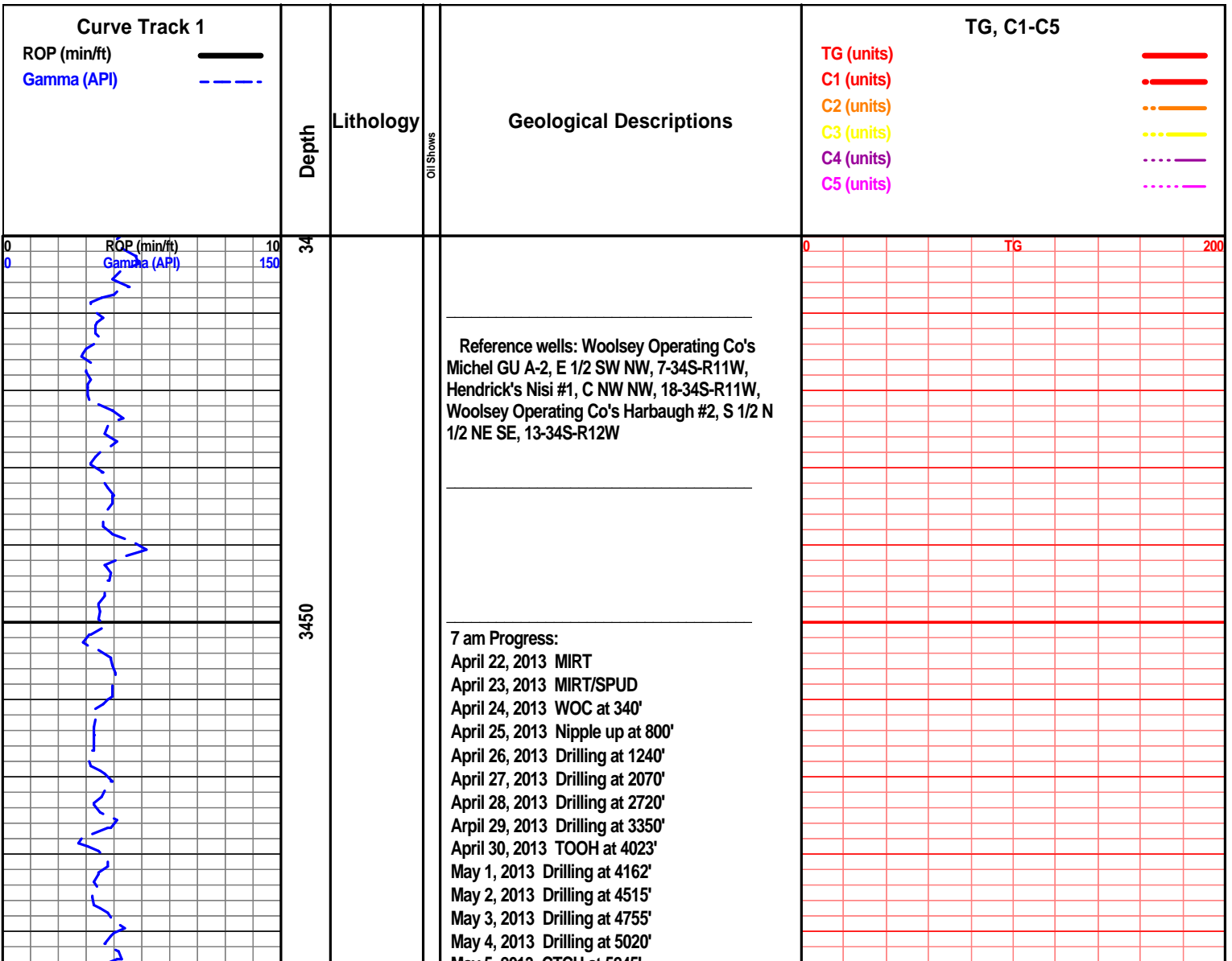
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Slstn

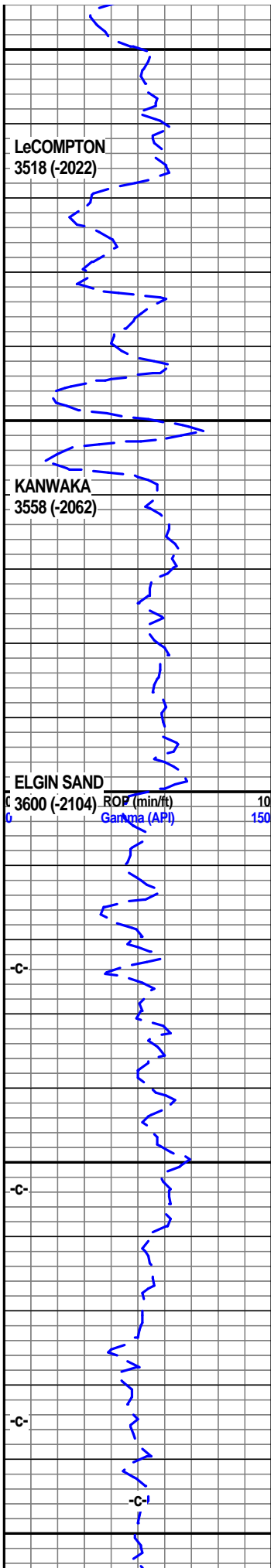
STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slstn
- Ssstn
- Carbsh
- Clystn
- Dol

TEXTURE

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





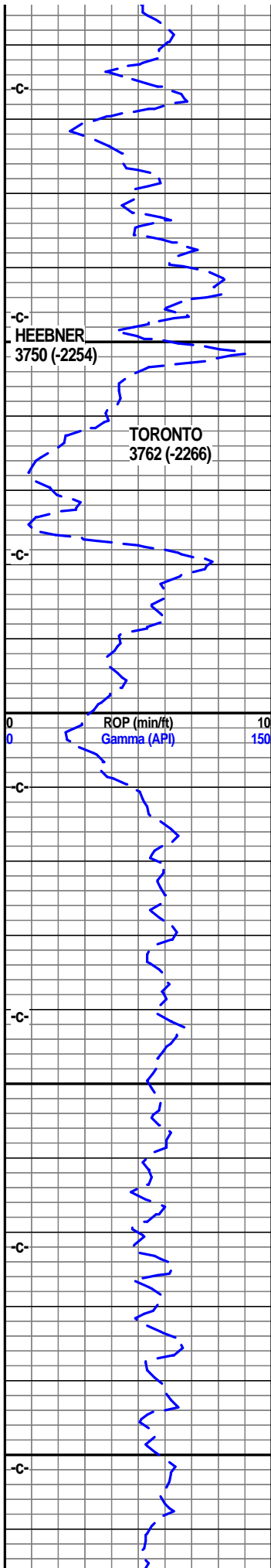
0.6
deg @
324.1
az

0.6
deg @
314.8
az

Sample Tops:

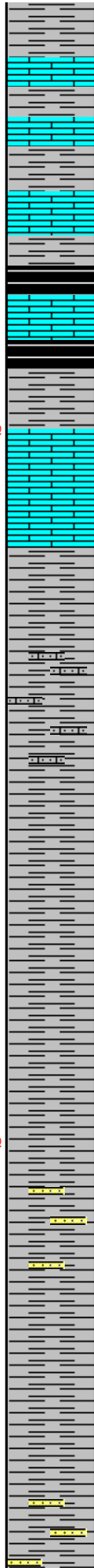
- LeCompton 3518 (-2022)
- Kanwaka 3558 (-2062)
- Heebner 3750 (-2254)
- Toronto 3762 (-2266)
- Douglas Shl 3810 (-2314)
- Brown Lime 3952 (-2456)
- Stark 4422 (-2926)
- Hushpuckney 4453 (-2957)
- B/Kansas City 4503 (-3007)
- Pawnee 4592 (-3096)
- Cherokee Grp 4642 (-3146)
- Mississippi 4654 (-3159)

0 TG 200

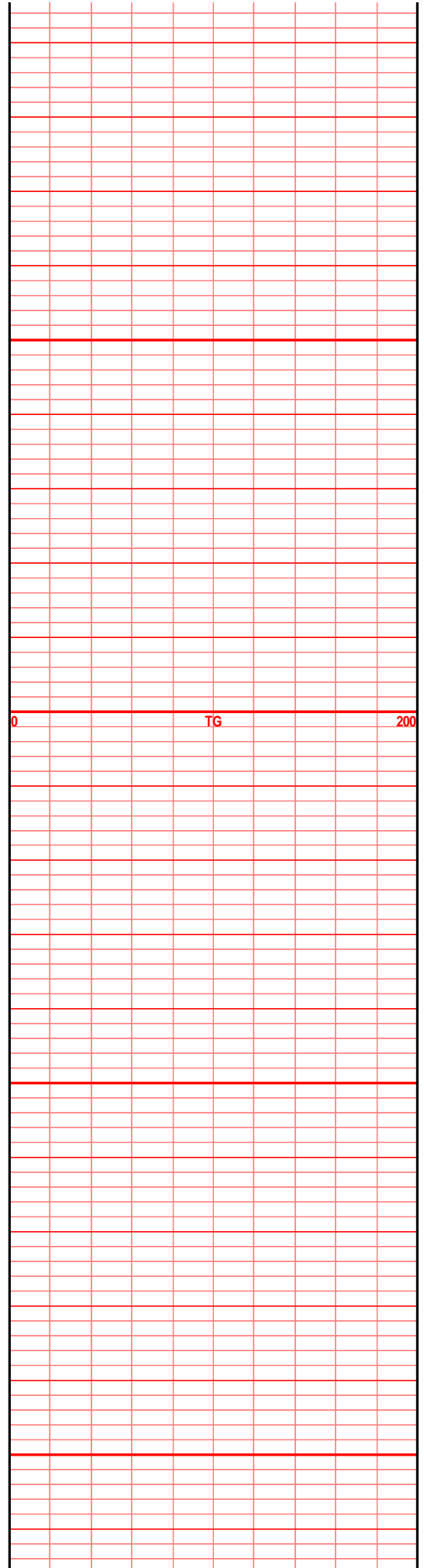


0.7
deg @
327.3
az

0.8
deg @
336.9
az



shl gry med drk gry gritty silty sndy, snd grn
inclu, mic in some, sst lt gry f grnd, sub ang
grns, sub ang, prly srted, prly cem, clay fill



shl gr med gry silty gritty sndy in prt, sst lt gry f
grnd sub ang, prly cem, prly srted, calc cem, arg,
clay fill, mic in pr,

shl gry med gry silty gritty, sndy in prt, sub ang
snd grm inclu, tr sst aa

lst tan brn f xln blkly ang hrd dns, tr micro xln,
some arg, lst tan wht off wht crm f xln blkly ang
sub chky calc xln fill

lst off wht crm lt gry in prt, f sli med xln gran,
blkly flky pcs, sub chky, foss frags, inter xln,
foss mold por, oomold por, much calc xln fill

lst crm buff tan off wht f sli med xln in prt, blkly
ang flky pcs, foss frags, sub chky calc xln fill,
foss mold inter xln por

lst crm buff tan off wht f xln blkly flky sub chky,
foss frags, mstly dns, tr calc xln fill, spls wsh
wht

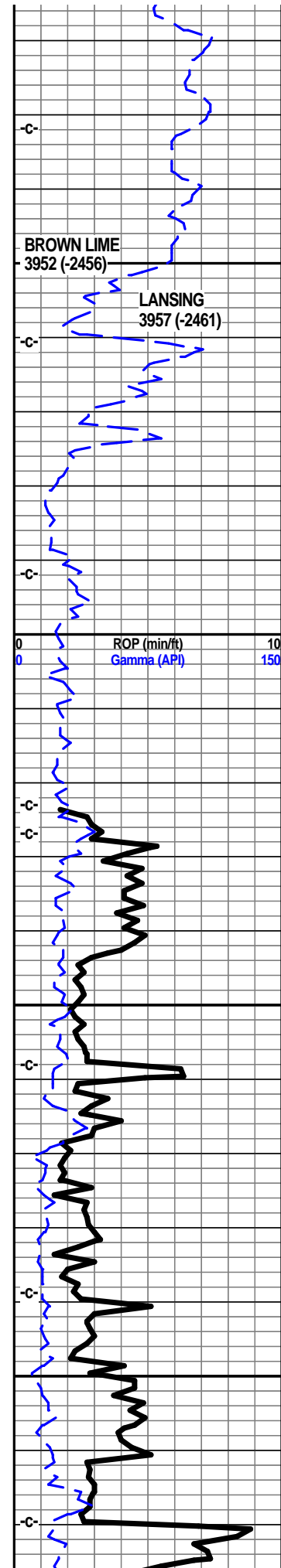
lst wht off wht crm f sli med xln gran sub chky,
dns, foss frags, foss ool, calc xln fill

lst crm gry tan f slli med sln gran sub chky foss
frags, foss ool, soft, some arg, calc xln fill

lst crm tan lt gry f sli med xln blkly soft gran pcs,
sub chky foss frags, foss ool, inter xln por, foss
mold por,

lst crm tan off wht lf gry f sli med xln, gran soft
sub chky pcs, foss frags, foss ool, inter xln por,
foss mold por calc xln fill

lst crm tan lt gry f xln dns gran soft sub clky pcs,
foss frags, foss ool, calc xln fill, foss mold por,



0.5
deg @
232.7
az

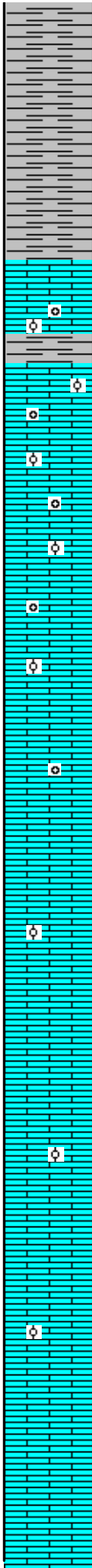
0.5
deg @
316.9
az

0.3
deg @
265.4
az

1.7
deg @
178.0
az

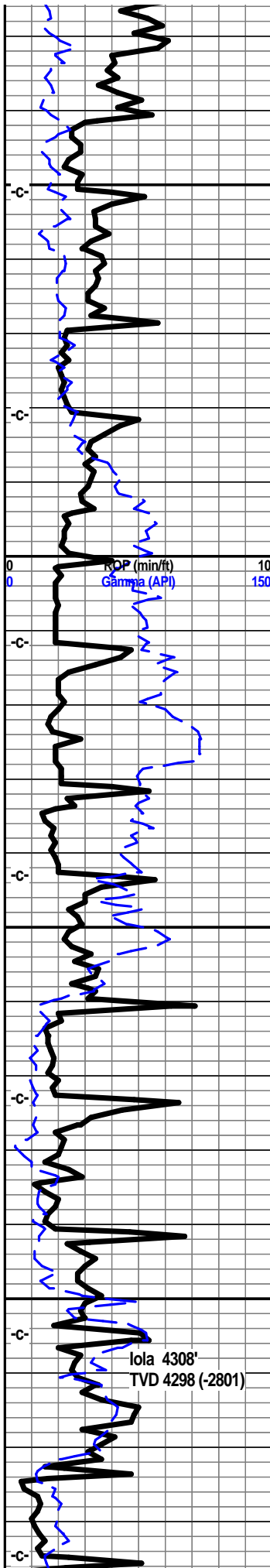
4.0
deg @
169.9
az

1.00
6.8 r
deg @
165.7
az

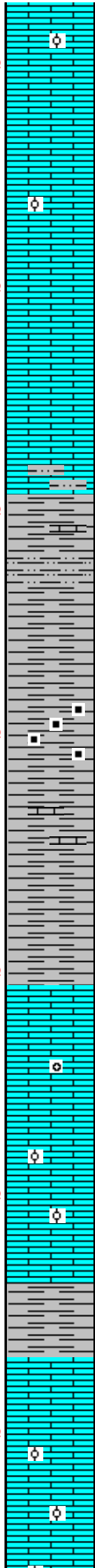


Scale Change
TG

Kick Off Point
4023' 7 am
April 30, 2013
Mud-Co.
wt. 9.1+ vis. 56
wl. 9.2 chl. 4,000



9.9 deg @ 164.7 az
 13.1 deg @ 163.1 az
 16.2 deg @ 161.5 az
 19.2 deg @ 159.2 az
 22.4 deg @ 153.7 az
 25.2 deg @ 154.8 az
 28.1 deg @ 153.8 az



inter xln por

lst crm tan lt gry f some vfixln, blk ang sub chlky, foss frags, foss ool, inter xln moldic por, tr chrt wht opa

lst tan crm lt gry, f vf xln dns hrd blk sub chlky foss frags, foss ool, chrt wht shrp frsh opa

lst crm tan gry, bec drkr gry, f vf xln dns blk ang hrd pcs, some sub chlky, foss frags, mstly hrd dns

shl drk gry, gry blk in prt, silty gritty, calc in prt, platy, tr blk carb text

shl gry drk gry, some drk gry blk, tr blk carb text, silty gritty calc in prt

shl gry, drk gry blk, silty gritty, calc, tr blk carb text in some

lst wht buff lt tan, mstly wht f xln gran soft, sub chlky, calc xstls, calc xln fill, foss frags, crumbly, spls wsh wht

lst wht off wht, tan, f sli med xln gran soft crumbly, foss frags, tr foss ool, calc xln fill, rhom calc xstls, spls wsh wht, tr wht shrp frsh opa chrt

lst wht off wht crm f sl med xln, gran soft, chlky to sub chlky, calc xln fill, foss frags, foss ool, inter xln por, foss mold por

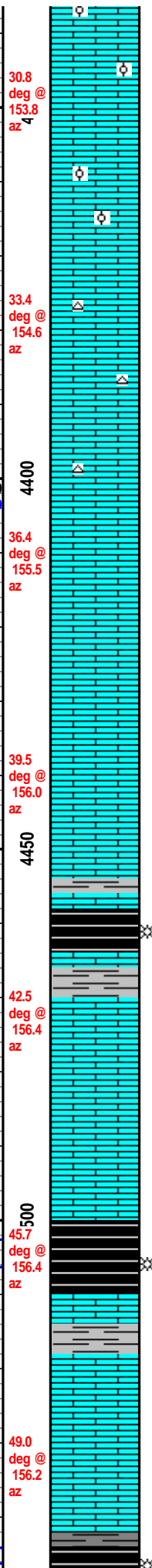
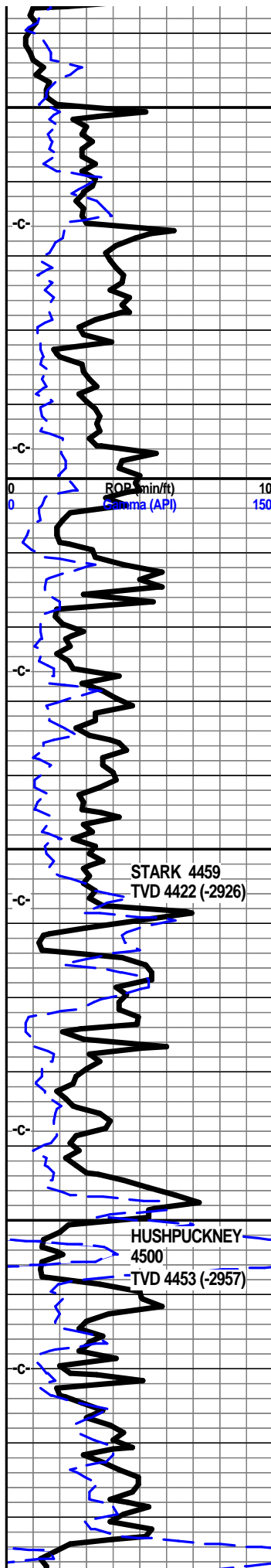
lst wht tan off wht f sli med xln gran soft crumbly, sub chlky, foss frags foss ool, inter xln por, foss mold por, calc xln fill, tr chrt wht lt gry shrp frsh opa

4162' 7 am
 May 1, 2013

Mud-Co. 4202'
 wt. 9.0+ vis. 51
 wl. 8.8 chl. 3,000

TG

100



Ist wht off wht tr crm/tan f sli med xln gran soft, crumbly, sub chlky, calc xln fill, xstls, foss frags, foss ool, inter xln por, foss mold por, chrt lt gry shrp frsh opaq, samples wsh wht

Ist wht off wht lt gry f sli med xln gran crumbly, sub chlky foss frags, foss ool, iter xln, foss mold por, calc xln fill, mstly soft gran spls wsh wht

Ist wht off wht tan lt gry in prt, f xli med xln, blk ang soft crumbly sub chlky pcs, calc xln fill inter xln foss mold por, foss frags, tr chrt lt gry shrp frsh opaq

Ist crm wht tan lt gry/brn f xln dns hrd blk ang sub chlky, foss frags, tr foss ool, tr calc xln fill, incr tan brn drk dns hrd calc

Ist crm buff tan, off wht, f sli med xln blk ang gran sub chlky foss frags, tr foss ool, tr chrt lt gry wht shrp frsh opaq

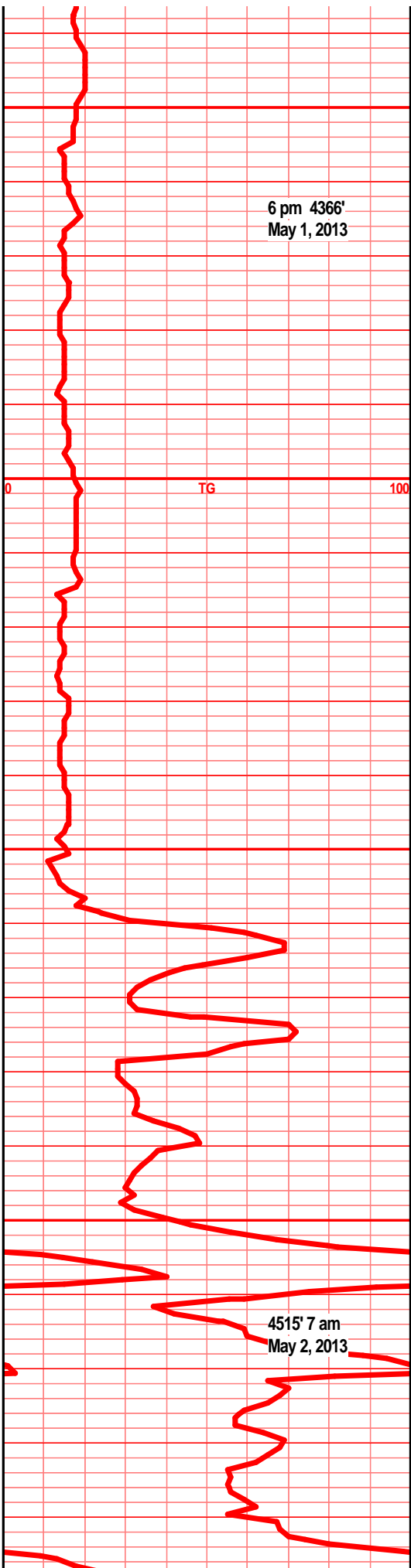
shl gry blk, flood blk carb, wxy grsy, tr gas bubs,

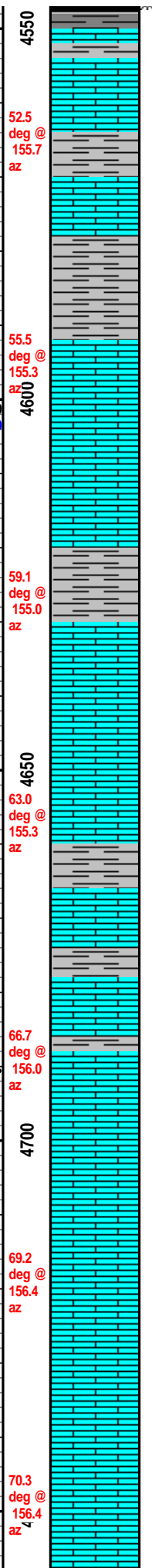
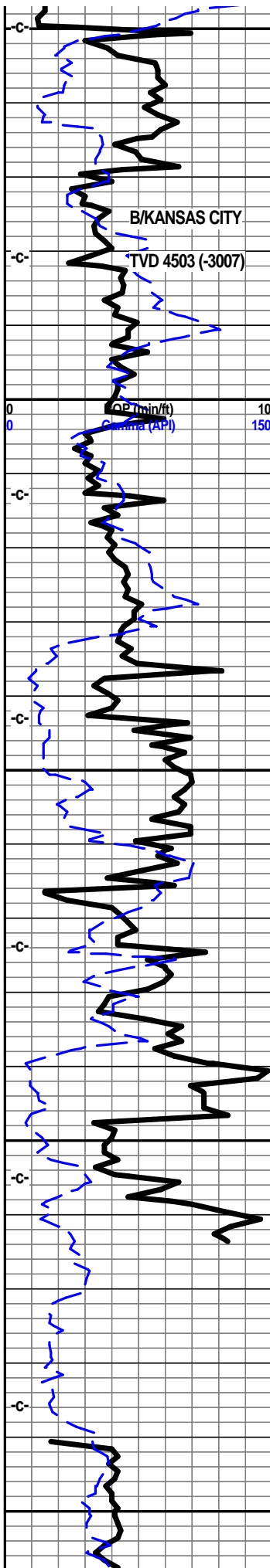
Ist crm buff lt tan off wht f sli med xln, blk ang flky pcs, sub chlky, foss frags, tr foss ool, tr some chlky soapy gas bubs, spls wsh wht,

Ist crm tan off wht f sli med xln gran flky sub chlky foss frags, tr foss ool, micro foss in prt,

shl gry drk gry, flood blk carb, wxy grsy, some abun gas, Ist tan crm brn f vf xln dns hrd blk ang some micro foss, micro xln fill

Ist gry tan lt brn f vf xln dns hrd blk ang calc xln fill, tr sub chlky, micro foss frags, tr chrt tan brn gry shrp frsh opaq





shl gry blk, drk gry blk, carb in prt, wxy grsy tr gassy, lst tan brn gry brn f vf xln dns hrd blk ang arg, calc xln fill, tr chrt dry gry brn shrp frsh opa

shl gry drk gry brn silty gritty calc, lst gry med gry brn f vf xln dns hrd blk ang arg, micro foss frags, tr chrt gry brn shrp frsh opa

lst tan gry brn f vf xln blk dns ang hrd pcs, tr arg, shls gry grn silty gritty calc in prt, shl gry green, blue/green

lst tan gry brn f vf xln dns hrd blk ang arg, silty, calc fill, micor foss frags, tr chrt gry brn, shls gry green, silty gritty, calc in prt

shls gry green blue green, slick silty, lst buff crm tan f vf xln blk fly ang sli sub chlky, micro foss frags, some calc xln fill

shl gry blk green/brn, lst tan crm buff f sli vf xln dns hrd blk ang fly sub chlky pcs, micro foss frags, tr inter xln por, mstly dns

lst crm tan buff f vf xln dns hrd fly, tr sub chlky, mstly dns, tr interxln por, tr micro foss frags, shl gry green silty gritty

lst crm buff tan f vf xln dns blk ang pcs, tr sub chlky, micor foss frags, tr calc xln fill,

lst crm buff tan f vf xln blk ang dns fly tr sub chlky pcs, micro foss frags, some calc xln fill,

lst crm buff tan f vf xln blk ang fly sub chlky pcs, micro foss frags, miro xln in prt, some calc xln fill

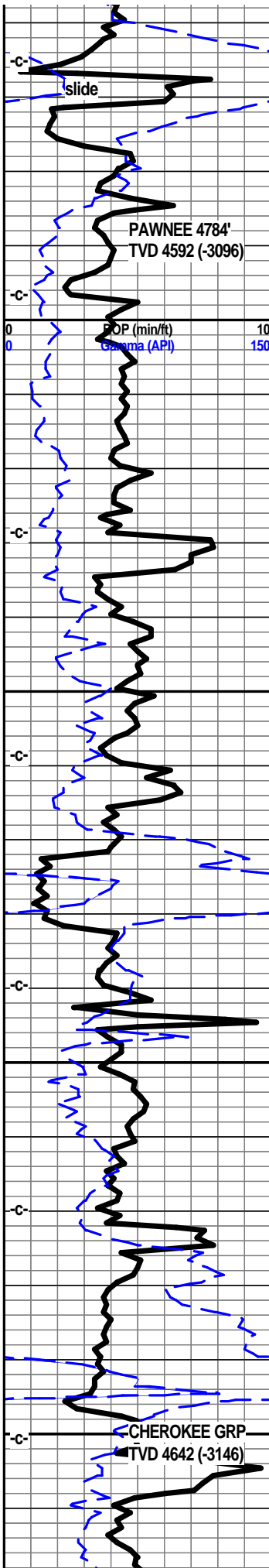
Mud-Co. 4541'
wt. 9.0+ vis. 48
wl. 8.8 chl. 2,000

4635' 6 pm
May 2, 2013

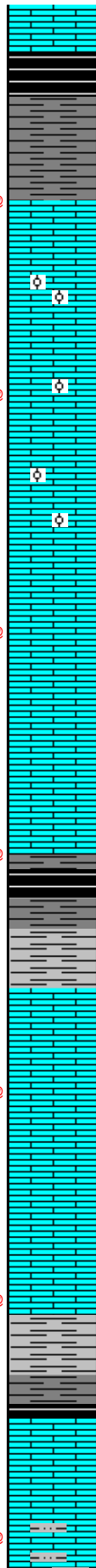
Light plant down
Pason Failure
Tooke "Froze"
Data Lost
No good!

Calibration
Check

4755' 6 am
May 2 2013



71.6 deg @ 156.9 az
 4800
 72.3 deg @ 157.1 az
 4850
 72.6 deg @ 156.7 az
 4900
 72.1 deg @ 155.7 az
 4950
 71.5 deg @ 155.2 az
 71.1 deg @ 155.3 az



Ist aa, tan crm buff f vf xln dns hrd flky some sli sub chlky miro foss frags shls gry, drk gry, drk gry blk, blk and some blk carb text, tr gas bubs

Ist crm buff lt tan f sli med xln, flky tr sub chlky, foss frags, foss ool, inter ool por with much calc xln fill, tr inter xln por, tr scatt rare gas bubs, tr filmy cond, better brkn

Ist tan buff crm f vf xln flky sub chlky, micro foss frags, calc xln fill, foss frags tr foss ool,

Ist crm buff tan f vf xln blk ang sub chlky pcs, micro foss frags, tr foss ool, calc xln fill,

Ist crm buff tan f vf xln blk flky sub chlky micro foss frags, micro ool, calc xln fill, shl gry drk gry blk, tr blk carb in prt, tr wxy grsytext

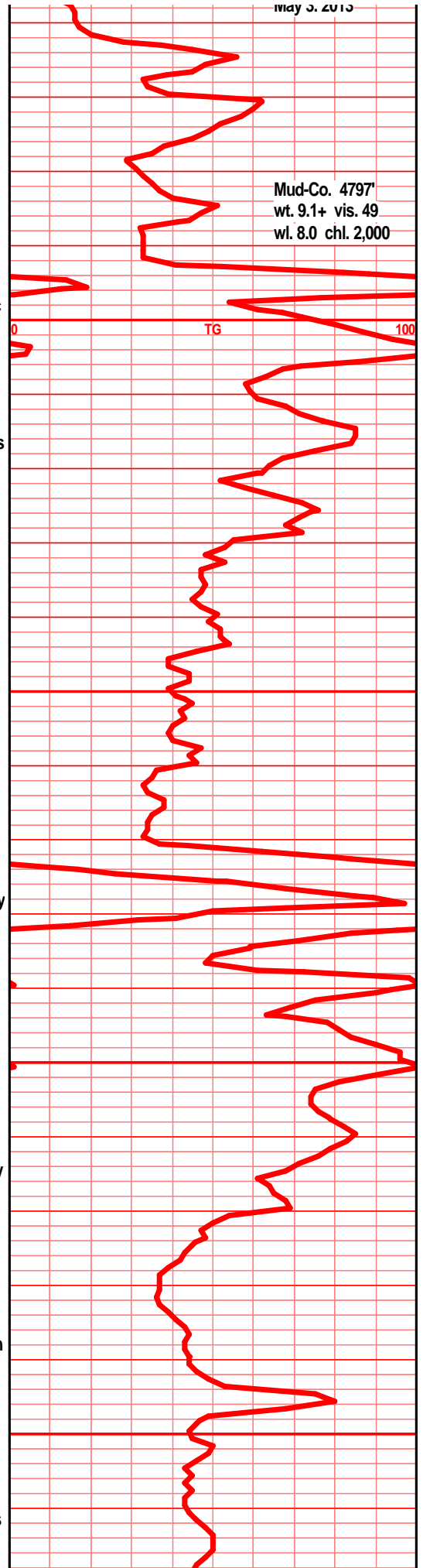
shl gry, drk gry blk, blk carb, gran gritty wxy grsy pcs, abun gas bubs

shl gry drk gry blk, Ist tan off tan lt gry to buff f vf xln dns hrd blk flky, micro foss frags

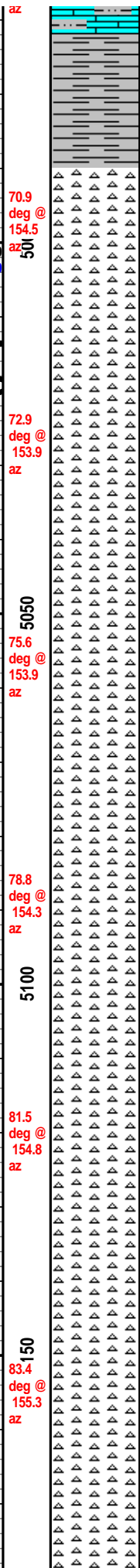
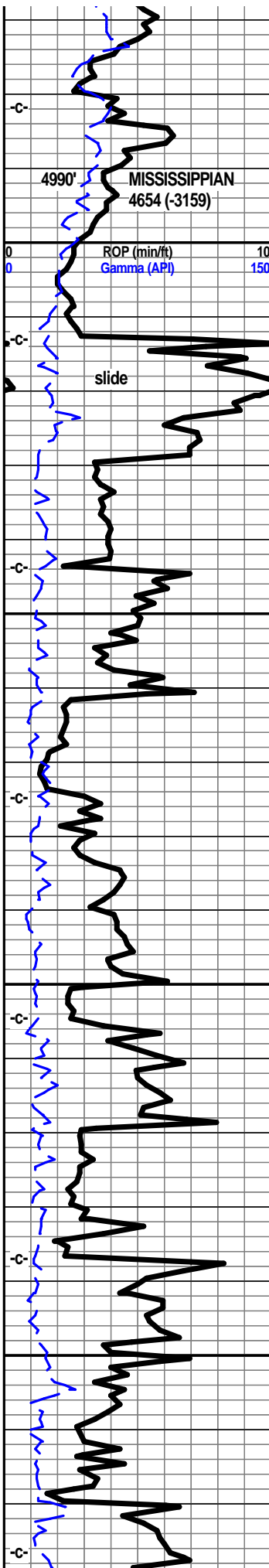
Ist crm buff, lt gry f vf xln blk ang flky sub chlky pcs, micro foss frags, some calc xln fill

spl all graphite, Ist buff gry f vf xln dns blk ang flky, sub chlky, some soft gran arg, silts, calc xln fill

Ist off wth lt gry, tr buff/gry f vf xln gran flky, dns hrd, calc xln fill, micro foss frags, shls gry brn green silty gritty calc in prt



Mud-Co. 4797'
 wt. 9.1+ vis. 49
 wl. 8.0 chl. 2,000



lst gry buff tan f vf xln blkly ang flky hrd arg silty, shls gry green blk, ratty silty

chrt lt gry, lt smokey gry, frsh shrp opaq transl, sub transp, chrt clr shrp frsh semi opa, shrp blkly ang shards

chrt lt gry, lt tan, tr smokey, tr clr, shrp frsh opa, trans, tr transp, shrp blkly ang shrd, with chrt gry tan mott, lt tan brn stain, tr gas bubs, pp moldic vis frac por, nodor, sli UV, filmy SFO/gas when brkn

chrt clr, lt gry lt smokey gry, shrp frsh opa, some clr transp, tr gry transl, blkly ang shrd, lt gry smokey with tan lt brn mott stain, scatt UV, pp sli moldic por, filmy SFO w/brkn, some with tan lt green dolo edge, glau

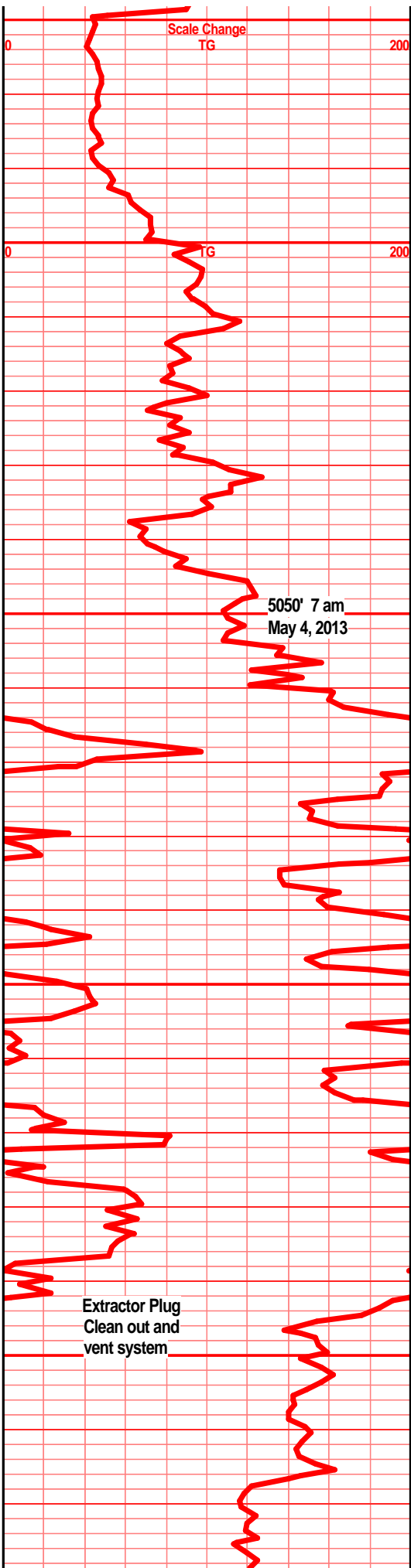
chrt off wht lt gry, lt smokey gry, shrp frsh opa, sub transl, some transp, off wht gry chrt w/tan brn stained sli weath edge text, pp moldic por, tan brn stained, filmy sfo w/brkn, tr gas, sli UV, tan crm lt green vf xln dolo edge, tr glau, nodor

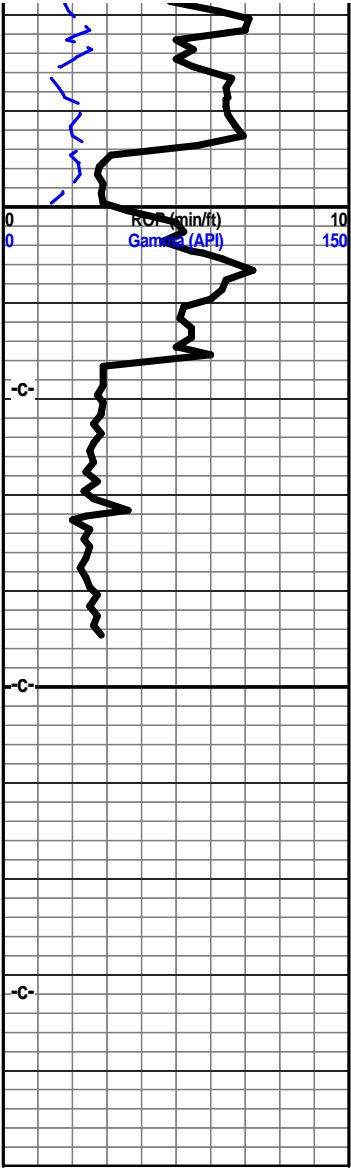
chrt lt blue gry, lt smokey gry, shrp frsh opa, sub transl, tr transp, frac por with tan stain, chrt off wht lt gry shrp frsh opa with sli weath gran gritty edge, tan brn stain, filmy SFO w/brkn, tr gas, nodor, sli UV, tan crm lt green f vf xln dolo/dolo, sub chlky gritty sndy glau with chrt inclu, tr stain

chrt lt gry blkly, lt smokey, shrp frsh opa, sub transl, tr transp, blkly ang shards, chrt tan lt brn, dolo in prt, weath gran gritty sli chlky text, pp moldic por, tan lt brn stain, VSSFO/filmy SFO w/brkn, tr gas bubs, sli UV, nodor, dolo tan lt brn f vf xln gran soft chlky tr glau

chrt lt gry blue, smokey color, shrp frsh opa, shards, transl, tr transp, chrt tan lt brn gry mott, gran sli chlky weath sli trip text, pp moldic por, tan brn stain, VSSFO/filmy SFO w/brkn, tr gas bubs, tan lt gry/green dolo edge, pp moldic por, tan lt brn stain, sli odor in all?

chrt lt arv. arv blue. shrp frsh opa. chrt lt arv





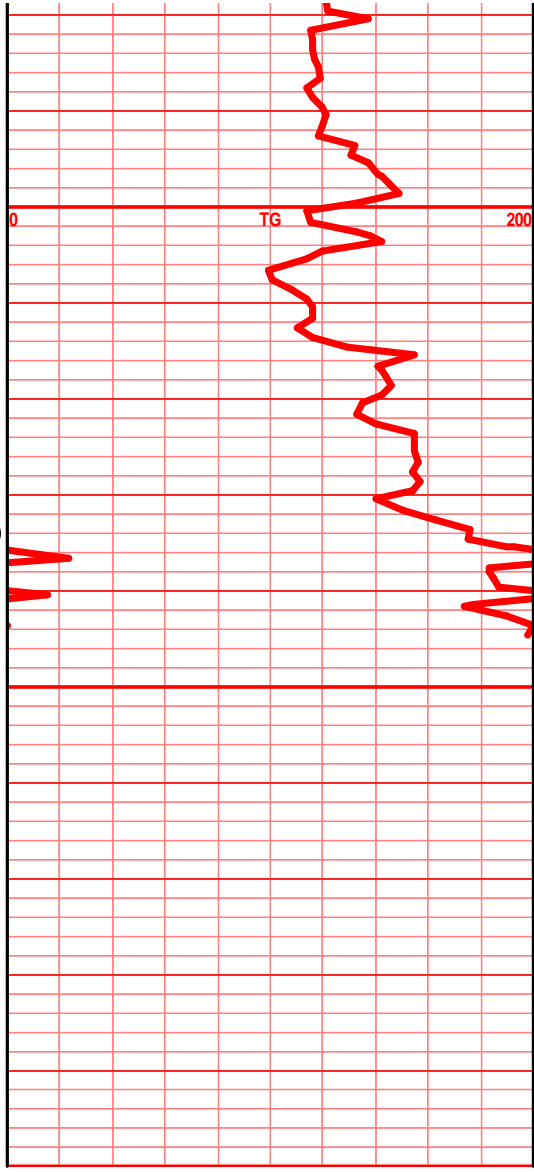
86.0 deg @ az
155.2

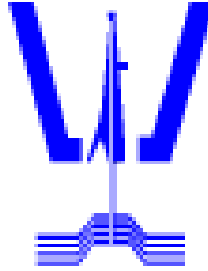
Vertical column of small symbols, likely a lithology log.

crm tan lt brn mott, weath gran soft chiky text, sli trip text, pp moldic por, tan lt brn stain, sli odor, SSFO/filmy SFO, gas bubs on brkn pcs, crm lt brn dolo edge in prt, glau

chrt lt gry off wht, shrp frsh opa, sharp blk ang shrds, chrt lt gry tan lt brn mott, sli spongy weath crumbly text, pp moldic por, pp por, tan lt brn stain, VSSFO/gas bubs w/brkn, scatt dull UV, nodor in any!

chrt off wht lt gry lt smokey gry shrp frsh opa, sub transl, blk ang shards, chrt lt gry tan crm mott, gran weath sli trip type text, pp moldic por, inter gran por, mstly even tan lt brn stain, VSSFO w/brkn, sli gas bus, dull scatt UV, nodor in any





Woolsey Operating Company, LLC

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

Well Name: Michel #2 H
Location: Section 7 - Township 34 South - Range 11 West
License Number: 15-007-24014-01-00 Region: Barber County, KS
Spud Date: Drilling Completed:
Surface Coordinates: 2170' FNL & 620' FWL
Apx. NE SW SW NW
Bottom Hole Coordinates:
Ground Elevation (m): 1479' K.B. Elevation (m): 1496'
Logged Interval (m): 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

Casing:

Big Bucket's set 20" X 53#/ft conductor to 41' with 4 yards of grout on April 17, 2013. Ran 8 joints of new 13 3/8" X 54.5#/ft casing to 336' KB (tally 336') with 330 sx Class A, 2% gel, 3% cc. Plug down 3 am on 4/24/13. Cement did circulate.

Ran 119 joints of new 7" X 23#/ft casing to 5237' KB with 50 sx 60/40 pozmix, 150 sx Class H.

Remarks:

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud Systems: Mud Co. Brad Bortz, Terry Ibson, Engineers

Directional Systems: Calmena Energy Services, Heath Marshall, Mark Sanders, Directional Drillers,

MWD Hands: Shane Lewis, David Jay



Crews:





Tool Pusher: Steve "Duke" Ellington, "Slammin" Sammy Fry, Relief





Day Drillers: Johnnie Stone, Jack Lambert,

Night Drillers: Tanner Barber, Terry Stark





ROCK TYPES

 Anhy
 Bent
 Brec
 Cht

 Clyst
 Coal
 Congl
 Dol

 Gyp
 Igne
 Lmst
 Meta

 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Sltst
 Ss
 Till

ACCESSORIES

MINERAL

Anhy
 Arggrn
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chtlt
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau

Gyp
 Hvymin
 Kaol
 Marl
 Minxl
 Nodule
 Phos
 Pyr
 Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff

FOSSIL

Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral
 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite

Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst

Sltstrg
 Ssstrg

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

POROSITY

Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint

Vuggy

SORTING

Well
 Moderate
 Poor

ROUNDING

Rounded
 Subrnd
 Subang
 Angular

OIL SHOW

Even

Spotted
 Ques
 Dead

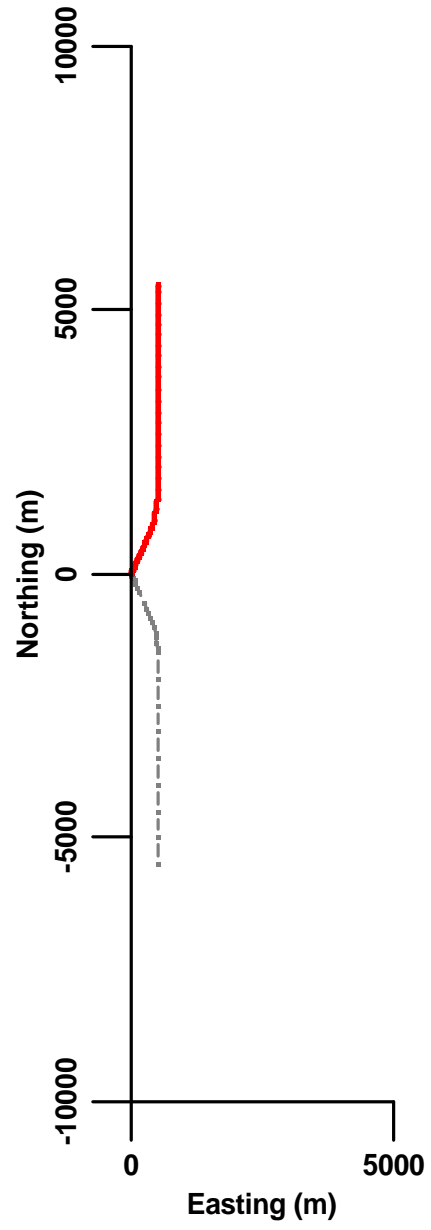
INTERVAL

Core
 Dst

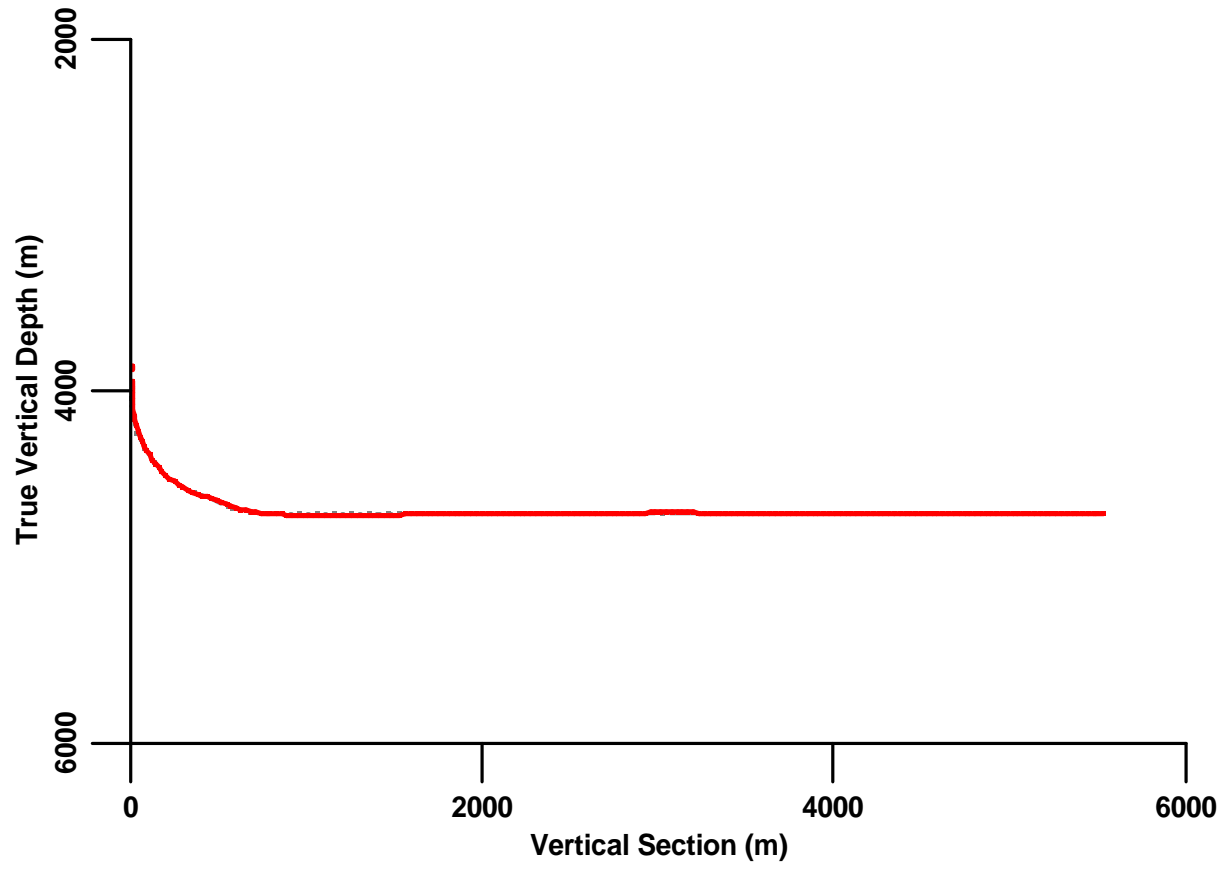
EVENT

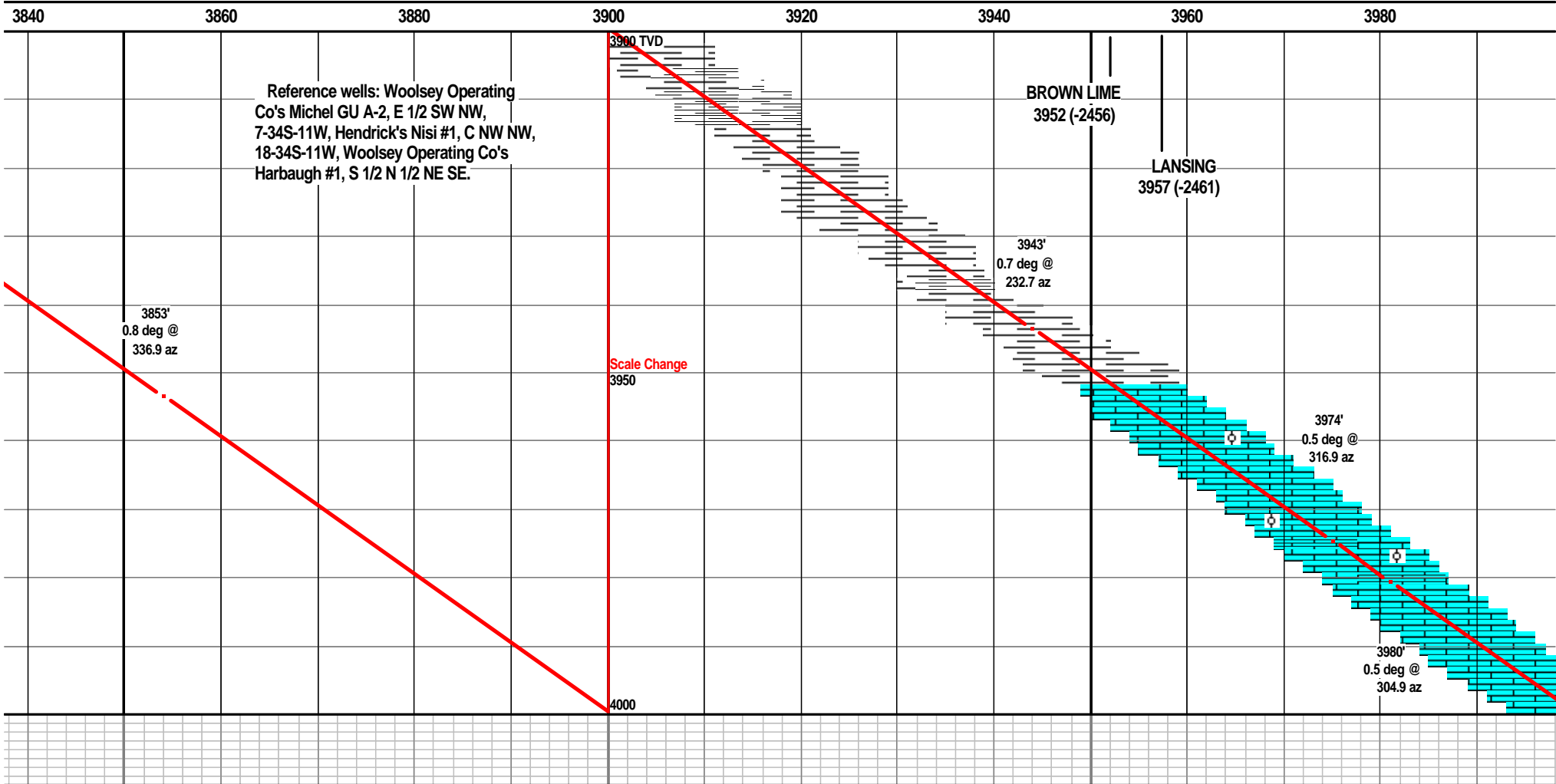
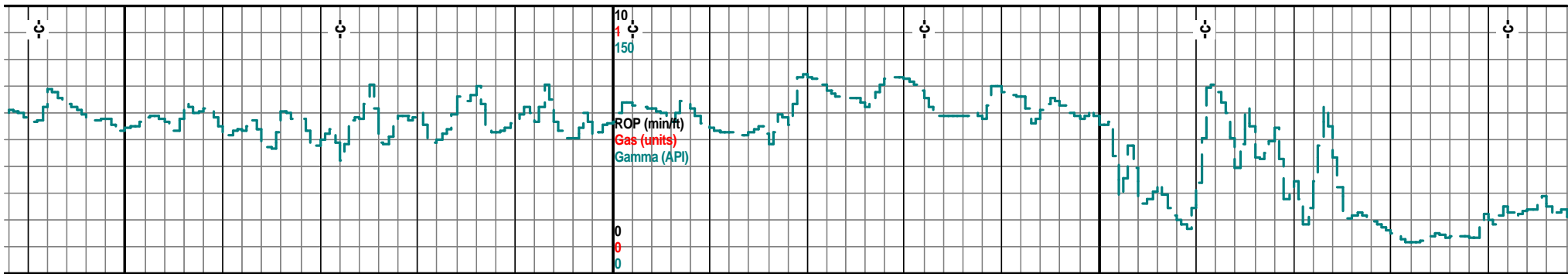
Rft
 Sidewall

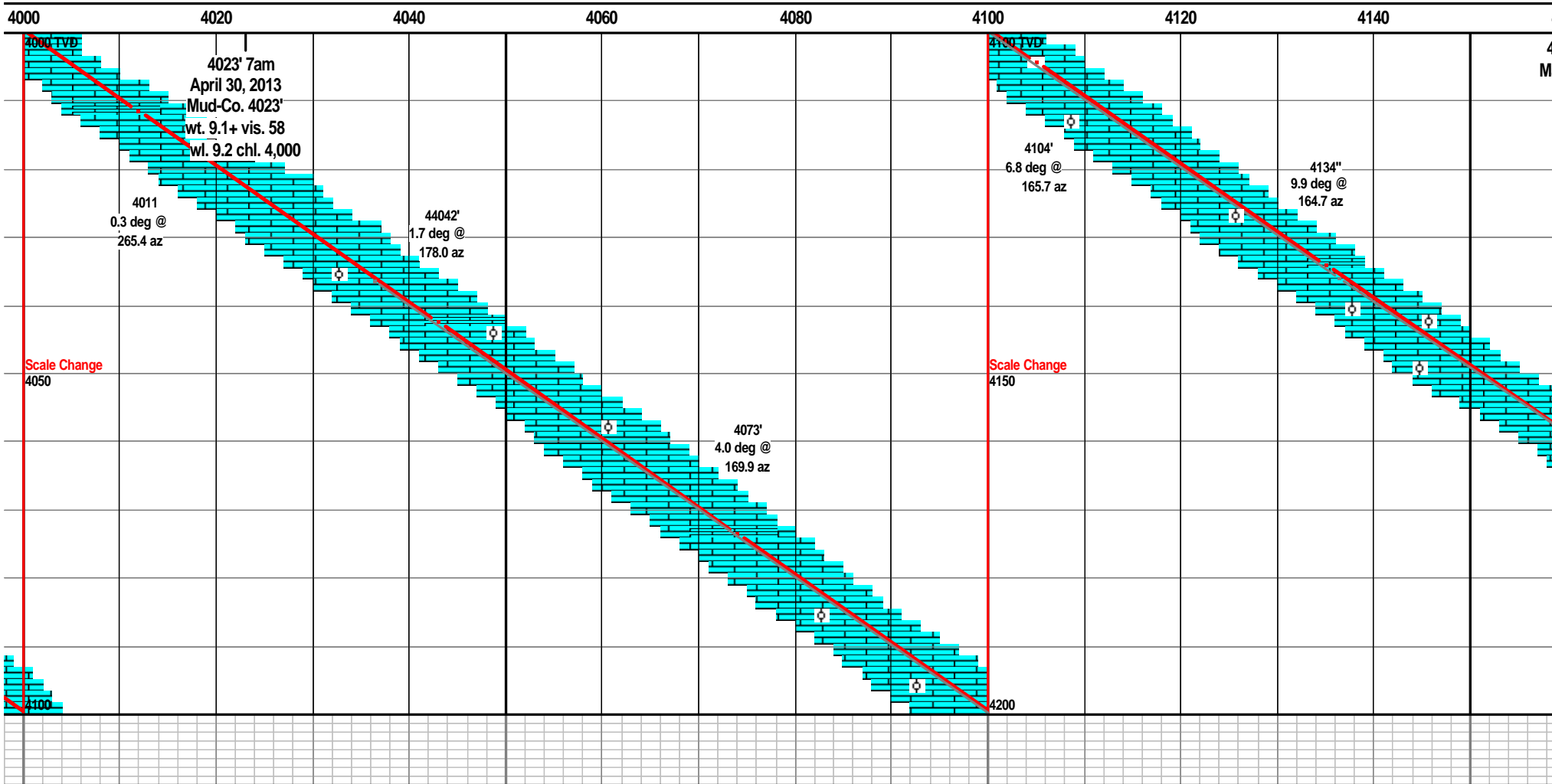
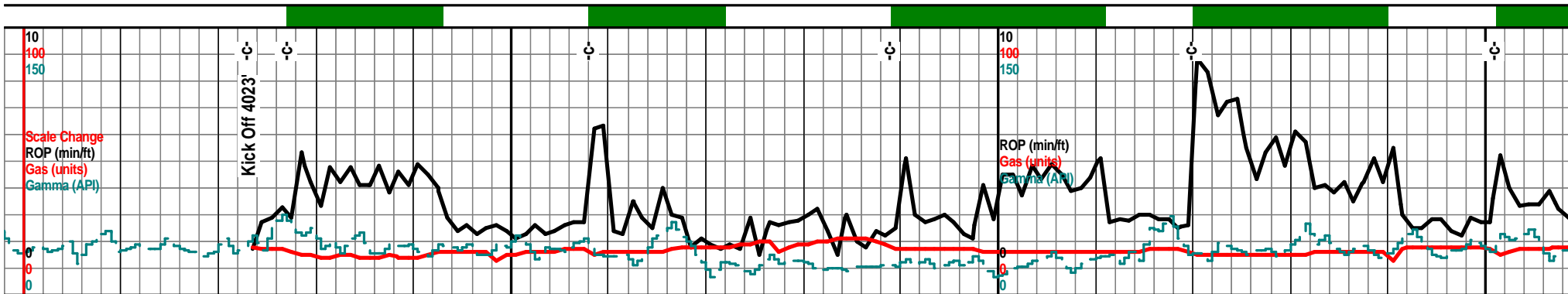
Plan

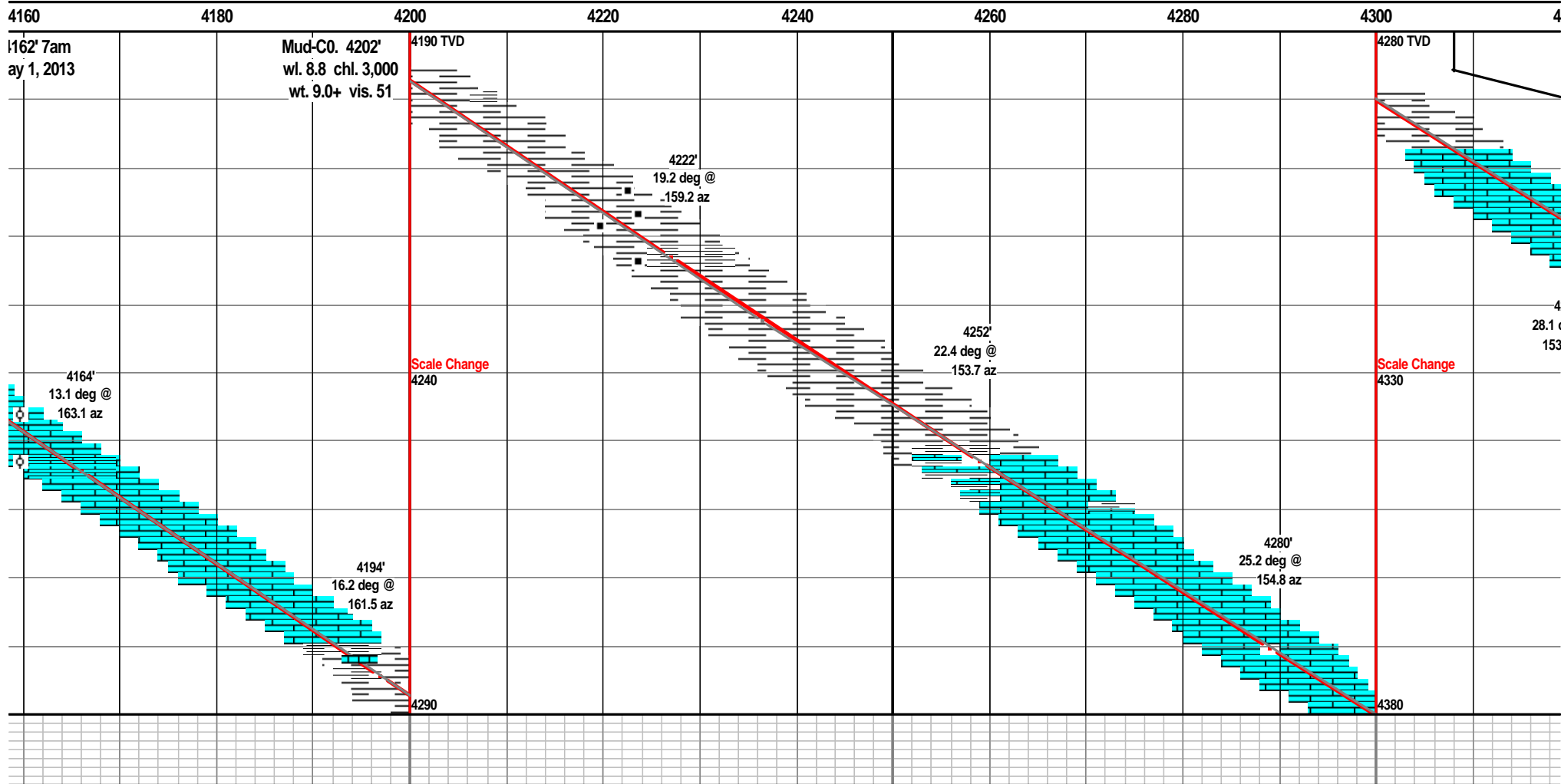
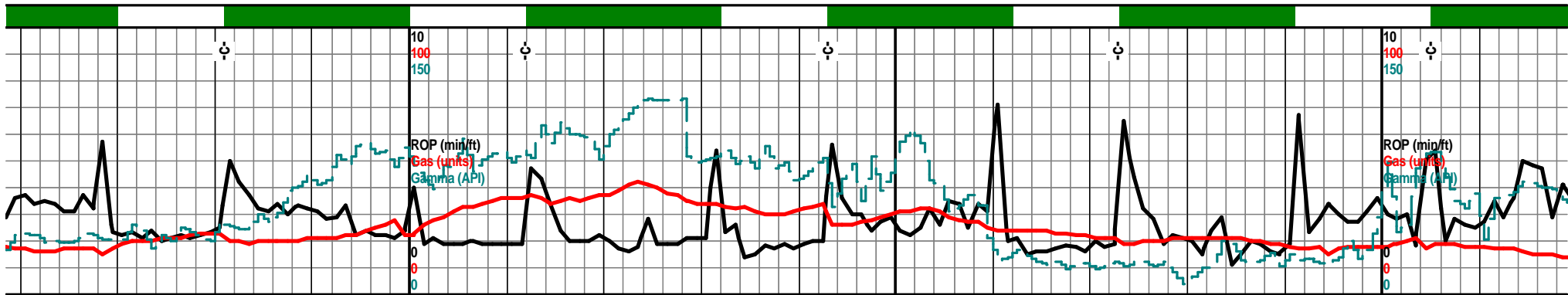


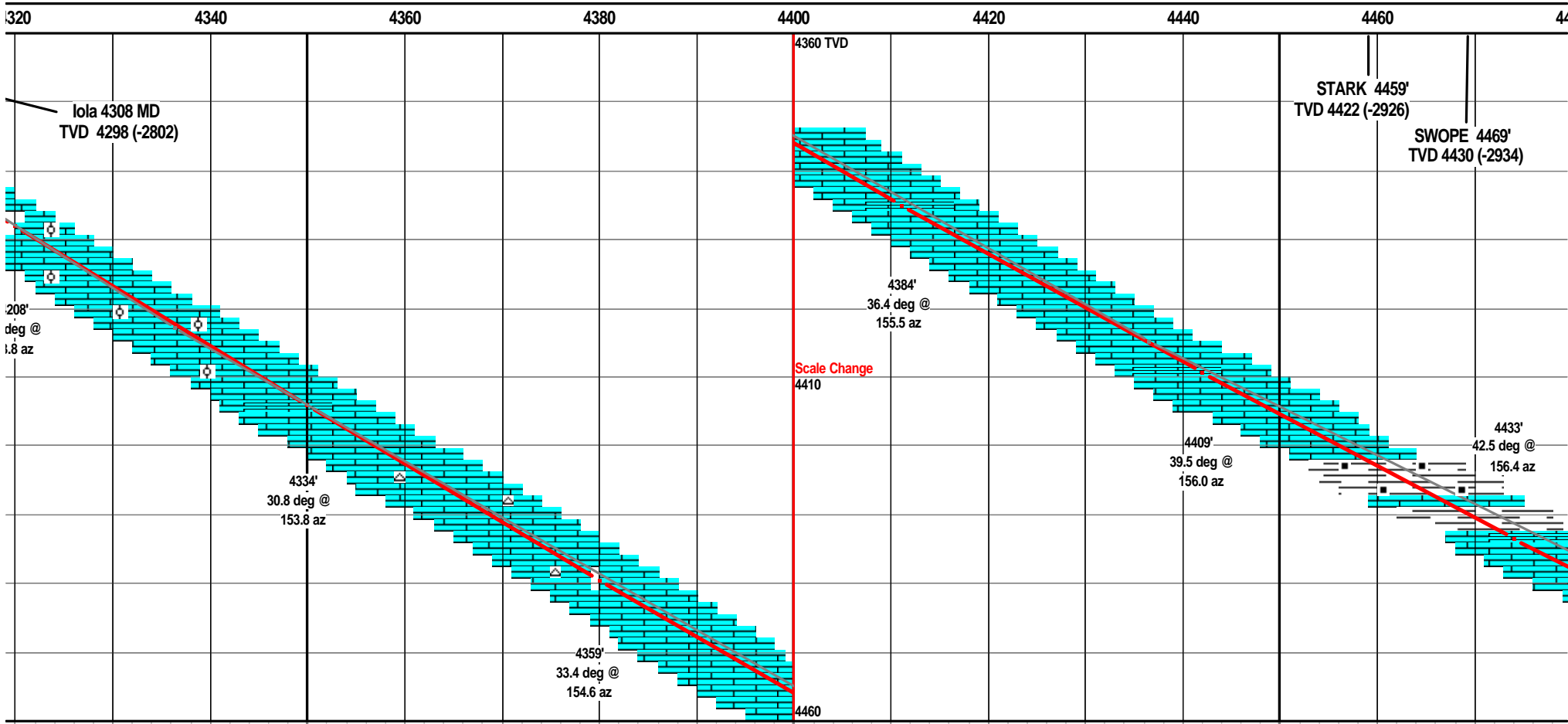
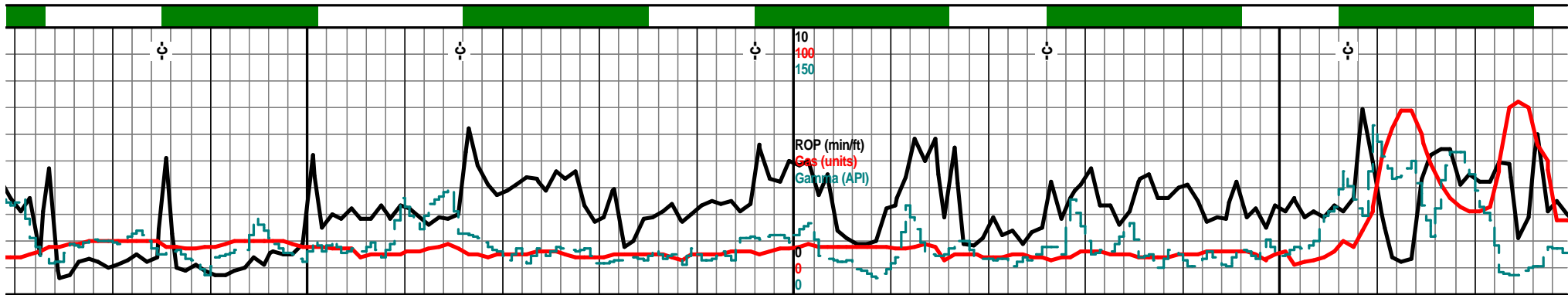
Elevation

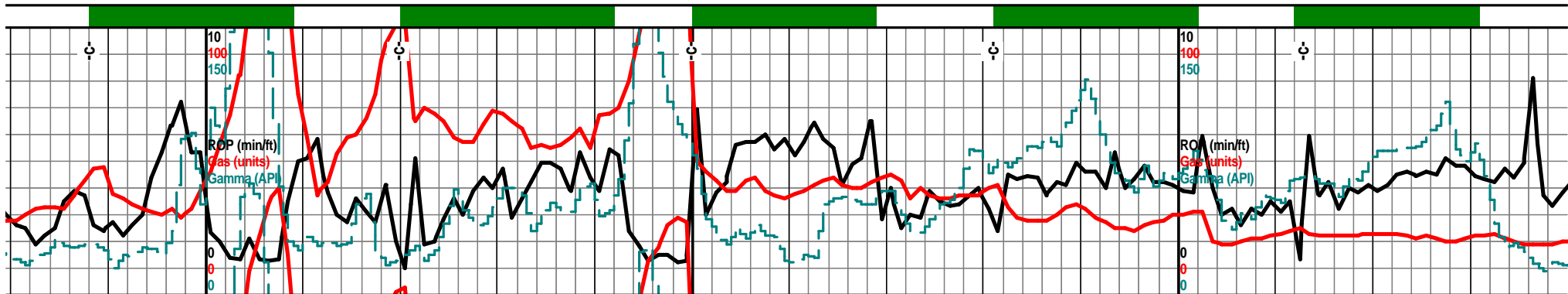




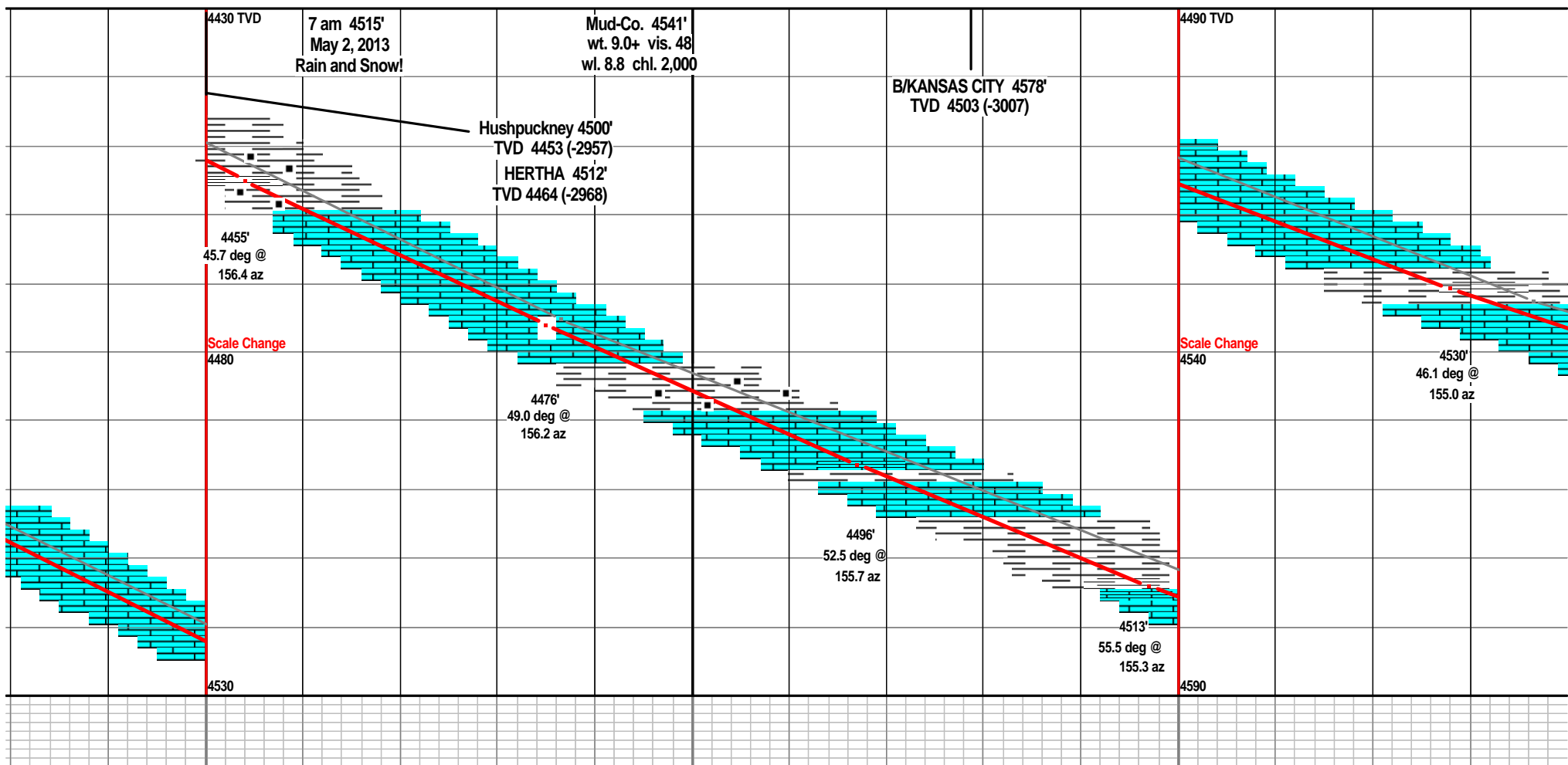


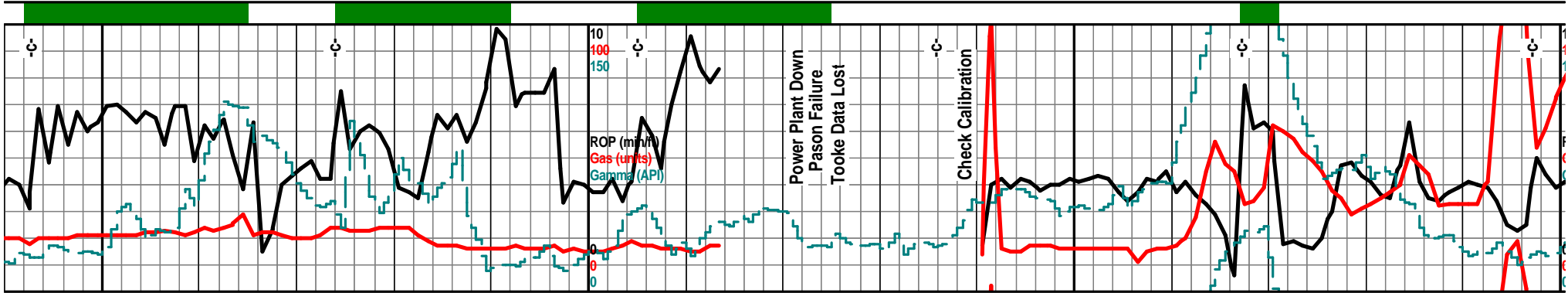




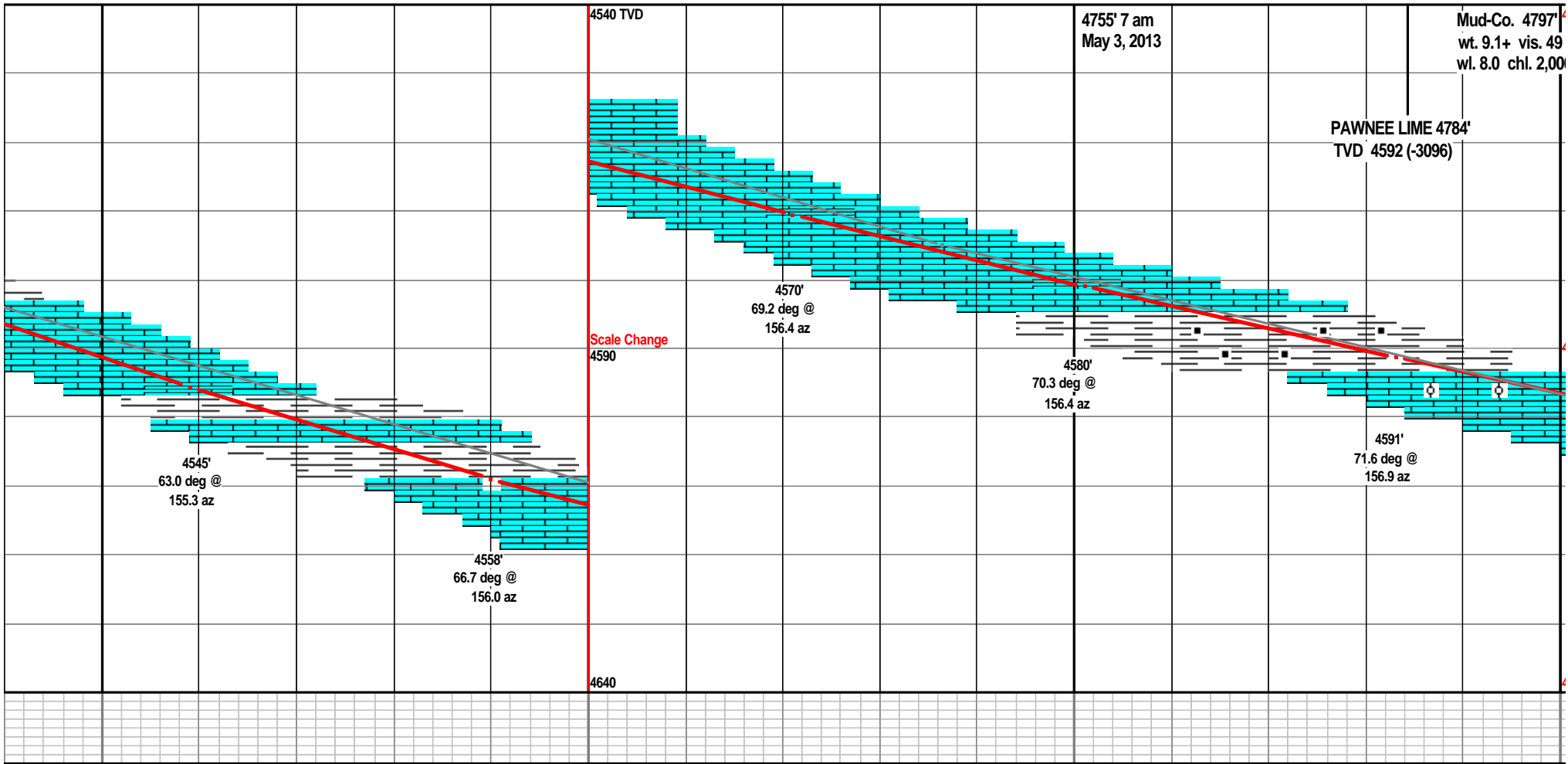


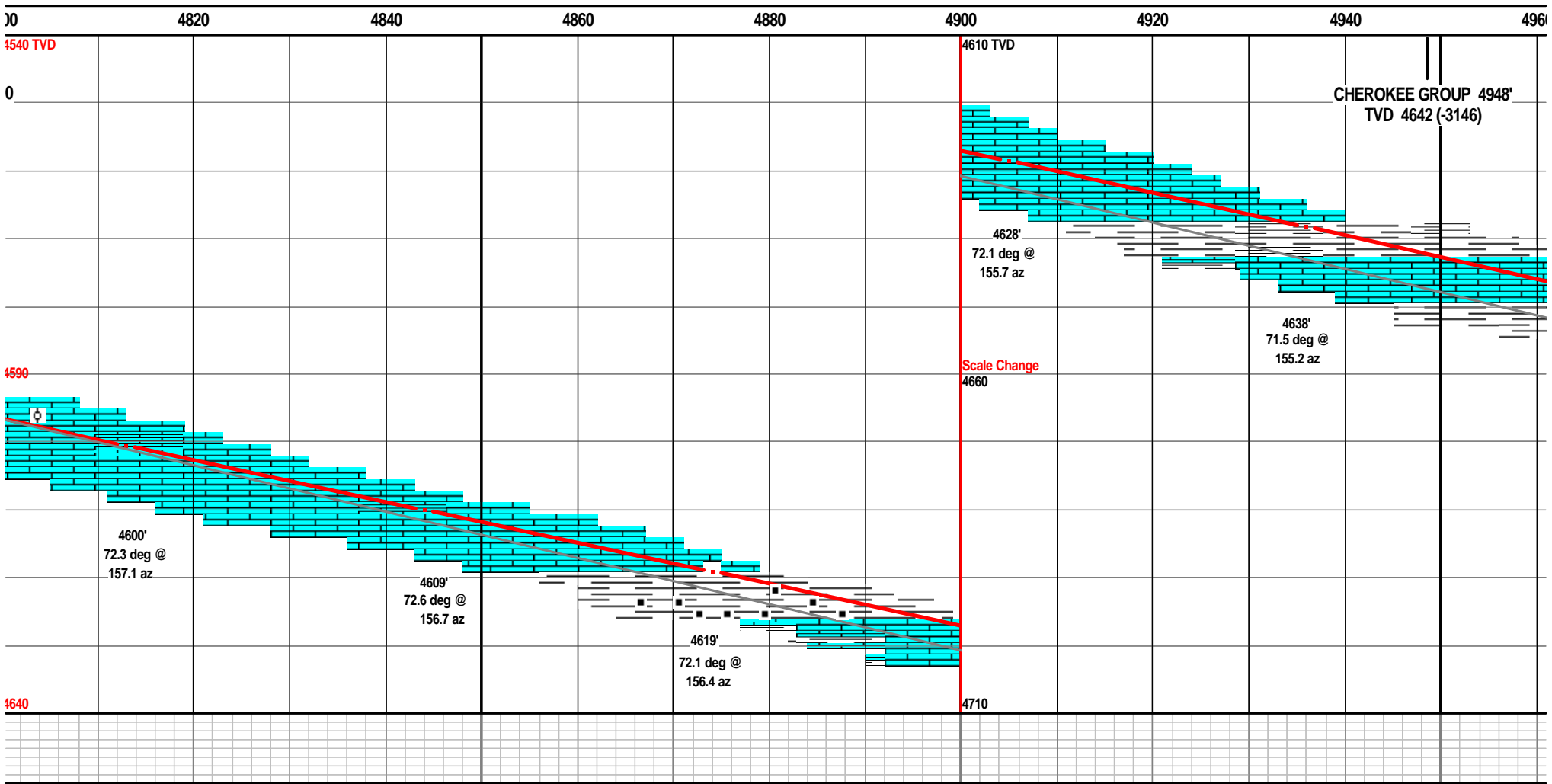
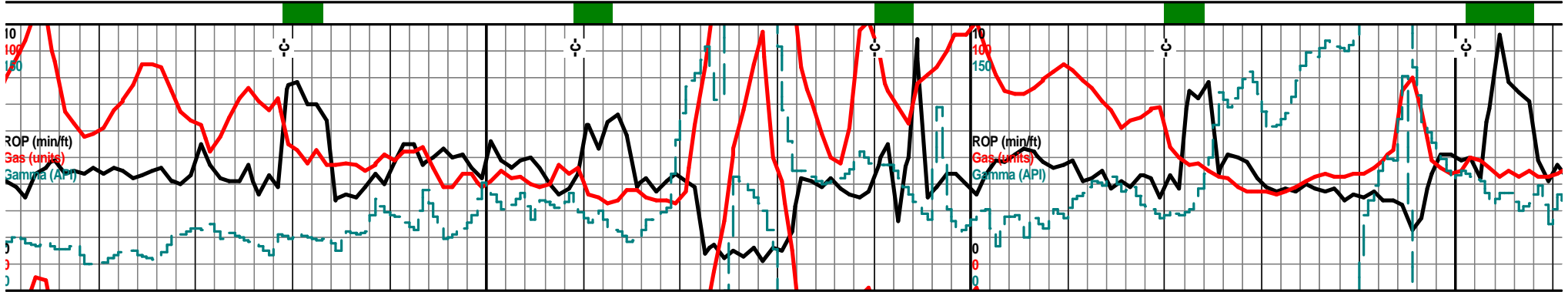
480 4500 4520 4540 4560 4580 4600 4620 46

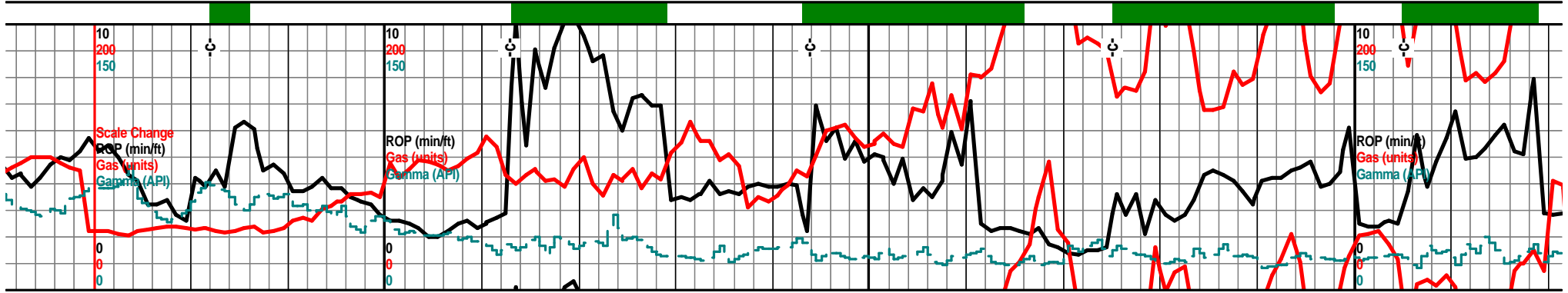




40 4660 4680 4700 4720 4740 4760 4780 480

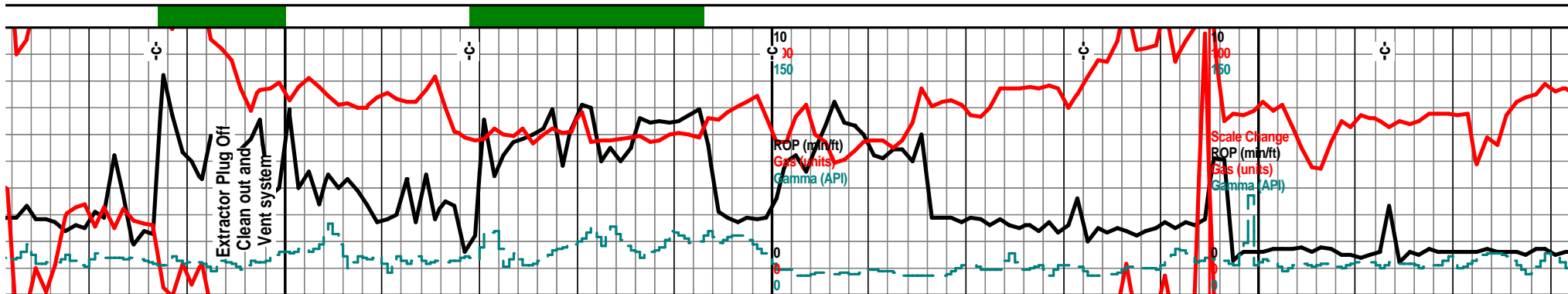






0 4980 5000 5020 5040 5060 5080 5100 5120

<p>MISSISSIPPIAN 4990' TVD 4654 (-3154)</p>	<p>4610 TVD</p>	<p>5020' 7 am May 4, 2013</p>	<p>Mud-Co. 5044' wt. 9.0 vis. 53 wl. 8.8 chl. 2,000</p>	<p>4640 TVD</p>
<p>chrt clr lt gry, lt smokey gry, shrp blk ang shrds, some transl, tr clr to transp, chrt lt gry off wht w/tan lt brn mott stain w/sli weath text, pp moldic por, nodor, filmy SFO w/brkn, tr gas scatt dull UV, chrt aa with tan off wht lt green vf xln sub chlky dolo edge, tr glau</p>	<p>chert lt blue/gry. lt smokey, shrp frsh opa q shards, transl, tr transp, frac por w/stain, chrt wht off wht shrp frsh w/weath gran text edge, tan brn stain, filmy SFO w/brkn, tr gas, scatt dull UV, nodor, lsl/dolo crm tan lt gry green in prt, f vf xln gran soft sub chlky glau with chrt inclu, tr stain, sndy gritty in prt</p>	<p>chrt clr lt gry, lt smokey gry shrp frsh opa q, ang shrds, some transl, much clr transp, sli opa q, tr frac, pp por, tr stain, tr with tan lt brn mott sli weath text, filmy SFO w/brkn, tr gas bubs, nodor</p>	<p>chrt off wht lt gry tr lsmokey gry shrp frsh opa q, sub transl, some transp, chrt lt gry wht w/tan brn sli brn stained sli weath edge text, pp moldic por, tan brn stain, filmy SFO w/brken trace gas, sli UV, above with sli tan crm lt green dolo edges, tr glau,</p>	<p>chrt lt blue/gry/smokey, sh shrds, opa q, transl, tr transp, tan, gran weath sub chlky, pp moldic por, tan brn stain, nodor, tr gas bubs</p>
<p>4648' 71.1 deg @ 155.3 az</p>	<p>4658' 70.9 deg @ 154.5 az</p>	<p>4667' 72.9 deg @ 153.9 az</p>	<p>4676' 75.6 deg @ 153.9 az</p>	<p>4683' 78.8 deg @ 154.3 az</p>
<p>4648'</p>	<p>4690'</p>	<p>4710'</p>	<p>4740'</p>	<p>4740'</p>



5140 5160 5180 5200 5220 5240 5260 5280

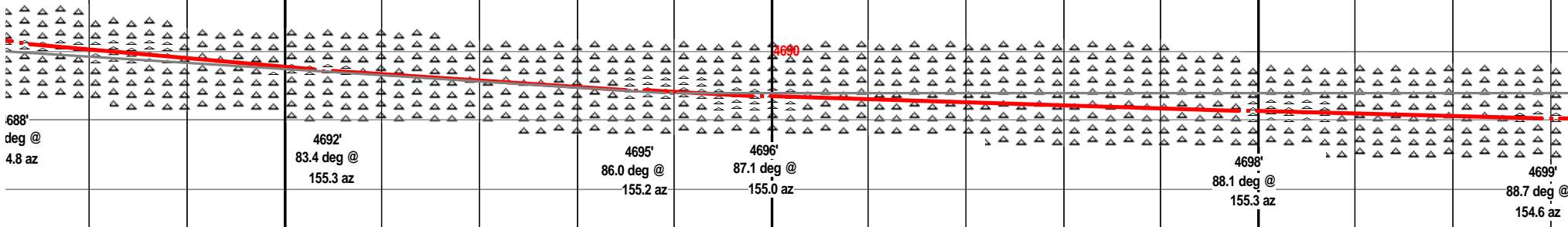
4640 TVD
7" Intermediate Casing
Depth 5245'

nokey gry, shrp frsh opa, sub lky ang shards, tr frac por, chrt prt, weath gran soft sli chiky r, VSSFO, filmy SFO w/brkn, tr UV, tan lt brn stain, dolo tan lt chiky chrt gritty gran text

chrt off wht lt gry/blue gry, shrp frsh opaq transl shrds, chrt lt gry tan lt brn mott, weath gran sli trip text, pp moldic por, pp por, tan lt brn stain, SSFO w/brkn, sli show gas bubs w/brkn, crm tan tr lt green dolo w/glau edge, sli odor??

chrt lt gry off wht shrp frsh opa, transl shards, chrt off wht crm tan tr gry mott, weath gran sli trip text, crumbly in prt, pp moldic por, pp por, even tan lt brn stain, filmy SFO, gas bubs w/brkn, dull scatt UV, nodor in any

chrt wht off wht lt gry, lt shrp biky ang shards, su weath gran crumbly text, stain in prt, nodor, tr film



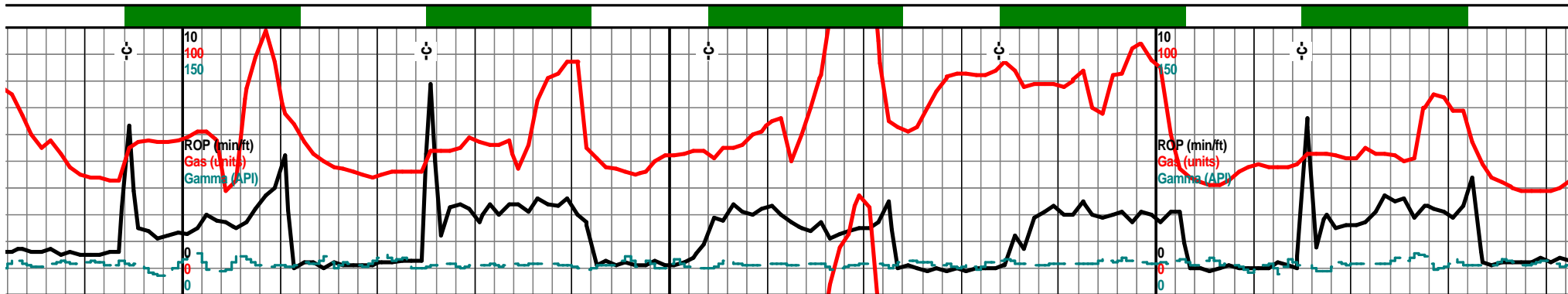
shrp frsh opaq biky ang sp, frac por, chrt off wht text, w/lt dolo edges, in, filmy SFO w/brkn,

chrt lt blue gry, lt smokey, shrp frsh opaq shrp shrds, transl, sli transp in prt, chrt tan gry lt brn tan mott, gran, weath sli trip text, pp moldic por, tan brn stain, sli odor??, VSSFO/filmy SFO w/brkn, tr gas bubs, sli scatt UV, tr tan off wht lt green dolo edge, glau, chrt inclu

chrt off wht lt gry shrp frsh opaq shrp shards, transl, chrt lt gry crm tan lt brn mott, weath gran crumbly text, pp moldic por, pp por, tan lt brn stain, VSSFO w/brkn, sli trace gas, scatt dull UV

chrt wht off wht lt gry, shrp frsh opaq shards, transl, tr lt gry shrp frsh opa, sub transl, tr weath gran text, pp moldic por, lt tan stain, nodor, filmy SFO w/brkn

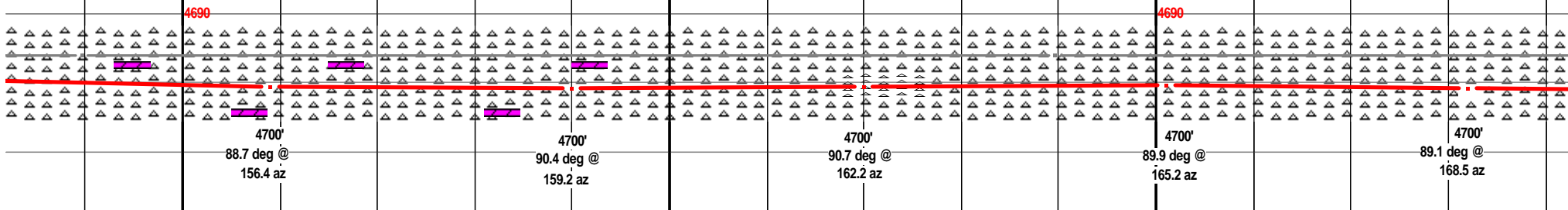
4740



5300 5320 5340 5360 5380 5400 5420 5440

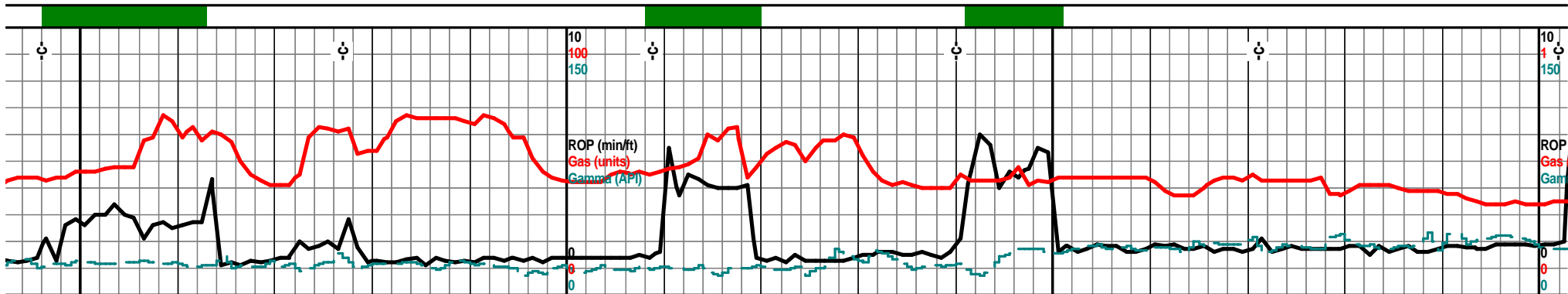
	4640 TVD					4640 TVD	
gry smokey color, frsh b transl, tr transp, tr tr pp moldic por, lt tan y show on brk		chrt wht off wht lt gry shrp frsh opa, sub trans shrds, weath gran soft crumbly text, glau, pp moldic por, tr lt brn stain, VSli filmy SFO w/brkn, dolo chrty dolo, wht off wht tr vry lt gry, f xln gran, sucr text, glau, sndy text, chrty with chrt inclu aa, tr tan lt brn stain, nodor, dull vry scatt UV				chrt off wht lt smokey gry, lt blue gry, shrp frsh opa, blk ang shrds, sub transl, tr w/transp, chrt crm tan frsh with w/weath gran crumbly text, pp moldic por, inter gran por, tan lt brn stain, tr blk hvy stain, sli odor?, scatt dull UV, tr crm tan off wht dolo, f xln gran sndy, glau, chrty with lt blue gry chrt inclu	

Okie crew is short-handed, keep missing samples, Geologist suggested they wake up the pusher to help take up the slack. I even offered to wake him myself. Samples now on time and clean.



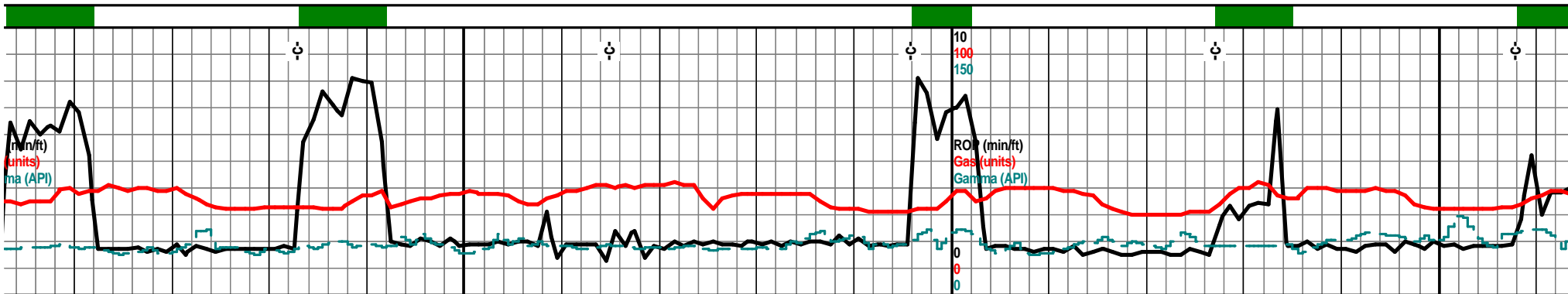
chrt wht off wht frsh shrp blk y pcs, opa, sub transl, w/weath gran semi crumbly text, pp moldic por, tr tan brn stain, VSSFO w/brkn, dolo wht off wht f xn gran chrty sndy text, glau		chrt wht off wht lt gry shrp frsh opa, sub transl, tr transp, weath gran crumbly text, pp moldic por, tan lt brn stain, sli odor?, filmy SFO w/brkn, tr gas w/brkn, scatt dull UV, tr dolo off wht lt tan f xln gran soft chrty, w/chrt inclu, glau, tan brn stain, inter xln inter gran por		chrt wht off wht lt gry, smokey gry, shrp fr opa, sub transl, tr transp, blk ang shrds off wht tan, w/weath gran crumbly some s pp moldic por, inter gran por, small vug p tan, tan and brn stain, tr blk hvy stain, sli floaters, VSSFO & gas bubs w/brkn, dull s
--	--	--	--	--

4740 4740



5460 5480 5500 5520 5540 5560 5580 5600

			4640 TVD							4640
<p>chrt off wht, wht, tr lt smokey gry, shrp frsh opa, transl, chrt tan wht off wht, weath gran crumbly text, sndy gritty in prt, some weath sli trip text, pp moldic por, tan lt brn stain, tr hvy brn stain, sli odor, VSSFO w/brkn, filmy SFO w/brkn, tr gas bubs, scatt rare UV</p>			<p>chrt off wht lt gry smokey shrp frsh opa sub transl, some transp in prt, blk ang shards, with chrt wht off wht w/gran sli weath sli trip text edge, pp moldic por, tan lt brn stain, tr hvy brn stain, sli odor, SSFO, filmy SFO w/brkn, tr gas bubs, sli scatt UV</p>			<p>chrt wht off wht, lt gry shrp frsh opa, sub transl, tr transp, blk ang shards, gran weath crumbly text, tr glau, tr sndy gritty dolo text, pp moldic inter gran por, tan lt brn stain, tr hvy brn stain, filmy SFO & gas bubs when brkn, dec sho, incr soft crumbly dolo text</p>				
		4700'		4701'		4702'		4704'		4705'
		88.9 deg @ 171.5 az		171.9 deg @ 171.9 az		87.9 deg @ 170.6 az		87.0 deg @ 168.5 az		87.1 deg @ 168.5 az
<p>rsh s, chrt ndy text, or, lt odor, tr scatt UV</p>			<p>chrt wht off wht lt gry, lt smokey gry, shrp frsh opa, blk ang shrp shards, sub transl, sli transp in prt, with sli weath gran sli trip edge text, tan lt brn stain, tr hvy brn stain, filmy SFO & gas bubs w/brkn. scatt dull UV</p>			<p>chrt wht off wht lt gry, lt smokey gry, shrp frsh blk ang opa shards, chrt wht off wht, lt tan, gran sli trip, crumbly, pp moldic, inter gran por, tan lt brn stain, sli odor, VSSFO, filmy SFO & gas bubs w/brkn, scatt dull UV</p>			<p>chrt wht off wht lt gry, lt smokey gry, shrp frsh opa, sub transl, blk ang shards, gran weath crumbly text, tr glau, tr sndy gritty dolo text, pp moldic inter gran por, tan lt brn stain, tr hvy brn stain, filmy SFO & gas bubs when brkn, dec sho, incr soft crumbly dolo text</p>	
			4740							4740



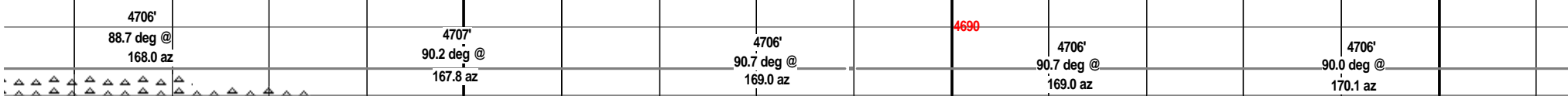
5620 5640 5660 5680 5700 5720 5740 5760

TVL 5610' 6 am May 7, 2013 Mud-Co. 5696' wt. 8.3 + vis 27 w/ NC chl. 600 4640 TVD

chrt lt gry off wht shrp frsh opa sub transl, tr lt gry transp, dolo off wht lt crm gry vf xln gran crumbly, glau, tr chrty, tr chrt inclu, tan brn stain, tr hvy blk stain, fimy SFO w/brkn, filmy RBSFO on water, spl mostly dolo!

dolo lt crm off wht lt tan f vf xln gran soft, blk ang pcs, glau, tr chrty, tr lt gry tan chrt inclu, vis inter xln por, mstly soft mushy dns spls wsh wht

dolo crm off wht lt tan, calc, chlky, glau, inter gran por, tr off wht lt gry, tr lt smokey gr shrp ang shrds, with incr we trip text edge, pp moldic por brn hvy stain, scatt UV

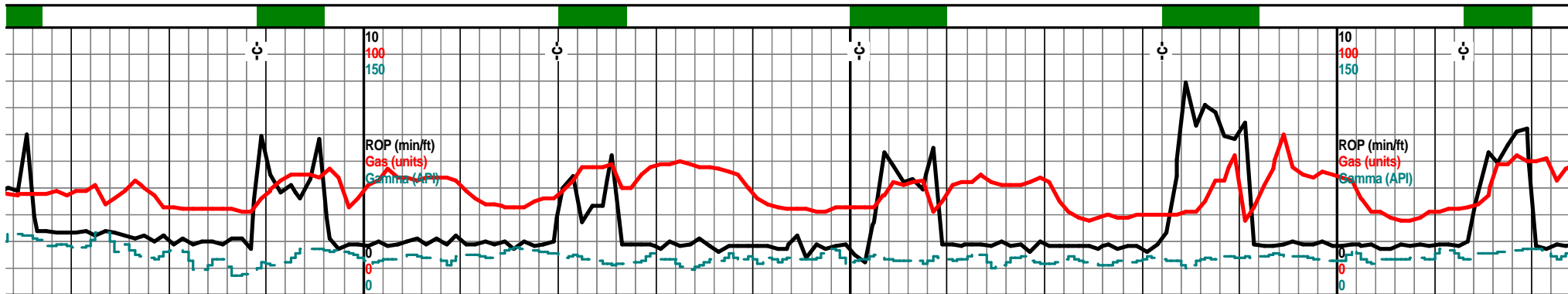


ff lt gry, shrp frsh opa, sub transp, sli some, blk ang shrds, chrt off wht lt crumbly text, pp moldic por, inter gran brn stain, tr hvy brn stain, tr floaters, gas bubs w/brkn, dull scatt UV, dolo off gry f xln gran glau, chrty, chrt inclu

dolo off wth lt tan lt crm f vf lxn gran soft, sndy text, glau, inter xln por, mstly tite dns, lt gry lt smokey gry chrt inclu, tr chrty, tan brn stain, tr gas bubs, nodor

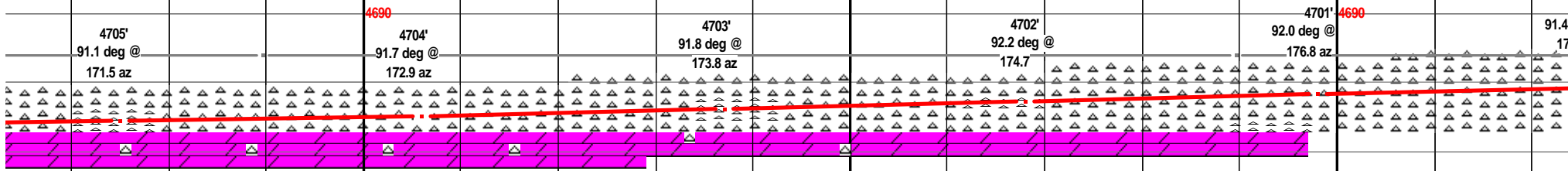
dolo, 1st dolo mix, (acid=fizz) f vf xln soft gran sub chlky, glau, tr lt gry shrp frsh chrt inclu, intr gran por, tan brn stain, nodor, dull scatt UV, spls wsh chlky wht

4740

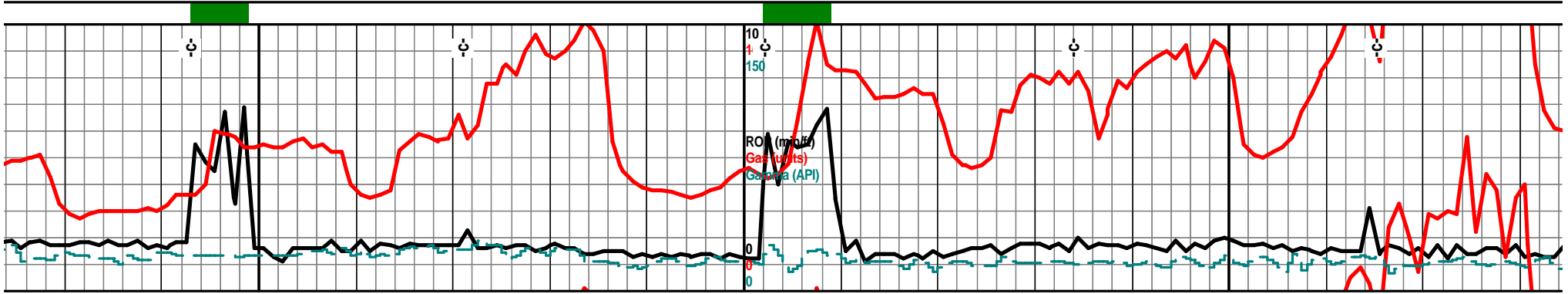


5780 5800 5820 5840 5860 5880 5900 5920

		4640 TVD						4640 TVD		
f vf xln dns sub an brn stain, incr chrt, ry, shrp frsh tansl, xath gran crumbly sli r, tan brn stain, tr drk			chrt off wht lt gry tr lt smokey gry shrp frsh opaqtansl, some transp, biky ang shards, chrt off wht lt crm weath gran crumbly tr dolo text, tr sndy gritty, pp moldic por, tan brn stain, tr hvy blk stain, tr gas bubs, scat rare UV					chrt lt gry off gry, off wht shrp frsh opaqt, subtransl, some transp, biky ang shrp shrds, with chrt off the lt gry w/sli weath gran text, pp moldic por, some small vug por, tan lt brn stain tr hvy brn stain, scatt dull UV, nodor in any of this		



		4690		4703'		4702'		4701'	4690		91.4
	4705'		4704'	4703'		4702'		4701'			17
	91.1 deg @ 171.5 az		91.7 deg @ 172.9 az	91.8 deg @ 173.8 az		92.2 deg @ 174.7		92.0 deg @ 176.8 az			
	chrt off wht lt gry, tr lt smokey gry, shrp frsh opaqt, subtransl, shrp ang shards, with tr weath gran sli trip text edges, tan lt brn stain, tr drk brn hvy stain, sli odor? scatt dull UV, dolo tan off wht lt tan f vf xln gran glau, tan brn stain, sub chlky dns tite, w/tan brn stain			chrt lt gry lt smokey gry, off wht shrp frsh opaqt, subtransl, some transp, biky ang shrds, chrt wht off wht lt gry shrp frsh as before w/sli weath gran text, pp moldic por, tan brn stain, tr hvy brn stain, nodor tr scatt UV				chrt off wht lt tan, tr lt smokey gry, shrp frsh ang shards, subtransl, some transp. w/sli w sli trip text edges, pp moldic por, small vug tan lt brn stain, tr brn hvy stain, tr floating droplets, tr gas on brk, nodor, scat dull UV-			
		4740						4740			



5940

5960

5980

6000

6020

6040

6060

6080

Bit Trip 5943'
TIH w/Bit 7am
May 8, 2013

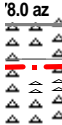
chrt off wht lt gry, lt smokey gry, transl, some transp/opaq, shrp blk ang shrds, and chrt wht lt tan off wht w/sli weath sli trip text edges, pp moldic por, tan brn stain, tr hvy brn stain, tr gas bubs on brk, sli odor, dull scatt UV, tr filmy SFO on brk.

4640 TVD

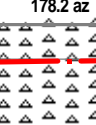
chrt off wht wht, smokey gry shrp frsh opaq transl, shrp blk shrds, with fair weath sli trip edges, pp moldic por, vug por, tan lt brn stain, tr brn blk hvy stain, sli odor, tr gas & SSFO w/brkn, dull scatt UV, incr vis weath text, incr vis por and shows in 6000' sample

chrt lt gry lt smokey gry shrp frsh opaq transl, semi transp in prt, with sli weath slt trip gran crumbly text, pp moldic por, smallvug por, tan lt brn stain, tr drk brn stain, sli odor, dull scatt UV, filmy SFO on break, tr gas bubs

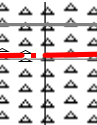
4700'
deg @
'8.0 az



4700'
91.2 deg @
178.2 az

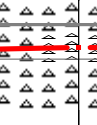


4699'
91.5 deg @
178.7 az

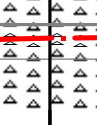


4690

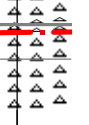
4698'
91.7 deg @
179.2 az



4697'
91.7 deg @
179.6 az



4696'
91.2 deg @
179.6 az



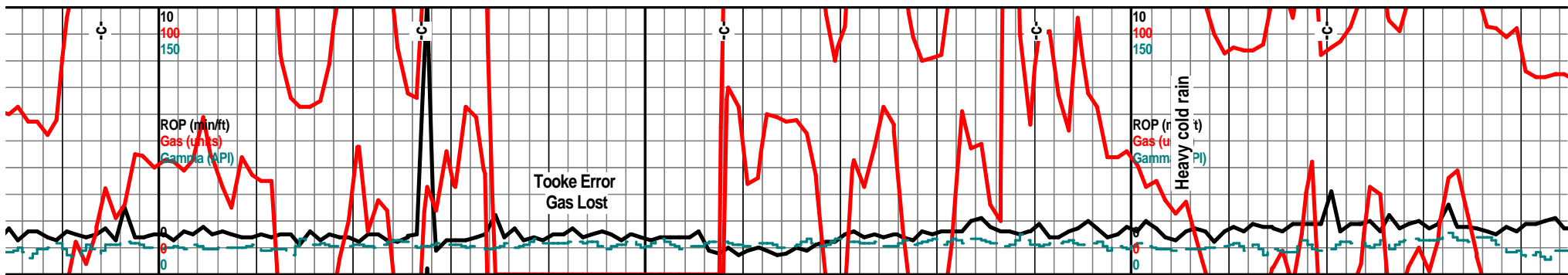
h, blk
veath
por,

chrt off wht lt tan, tr lt smokey gry shrp frsh blk ang shrds, sub transl, some transp, w/sli weath sli trip text edges, pp moldic por, small vug por, tan lt brn stain, tr brn hvy stain, nodor, scatt UV, resume drilling sample pretty poor!

chrt off wht lt gry shrp frsh opaq, with chrt off wht lt gry w/weath gran sli trip text edges, pp moldic por, small vug por, tan brn stain, tr hvy brn stain sli odor, tr filmy SFO w/brkn, tr gas bubs, scatt UV

chrt off wht
prt, blk
sli trip te
hvy brn :

4740



6100 6120 6140 6160 6180 6200 6220 6240

4640 TVD 4640 TVD

chrt off wht lt gry lt smokey gry shrp frsh opa, transl, transp in prt, with tan brn stained sli weath, gran, sli trip text edges, pp moldic por, tan brn stain, VSSFO w/brkn tr gas bubs, sli odor, scatt dull UV

chrt off wht wht lt gry, lt smokey gry, shrp frsh opa, transl, transp in prt, shrp blk ang shards, chrt lt gry with gran weath sli trip text edges/sides, pp moldic por, tan brn stain tr hvy brn stain, sli odor, full scatt UV

Incr frsh chrt, less weath vis por, chrt off wh tan, shrp frsh opa, transl, msly transp, son opa, sharp blk ang shards, with chrt off w tan lt gry frsh shrp with sli weath gran edges moldic por, tan brn stain, tr hvy brn stain,

4696'
91.2 deg @
179.4 az

4695'
91.2 deg @
179.4 az

4694'
91.4 deg @
179.6 az

4694'
90.3 deg @
179.4 az

4694'
89.8 deg @
190.1 az



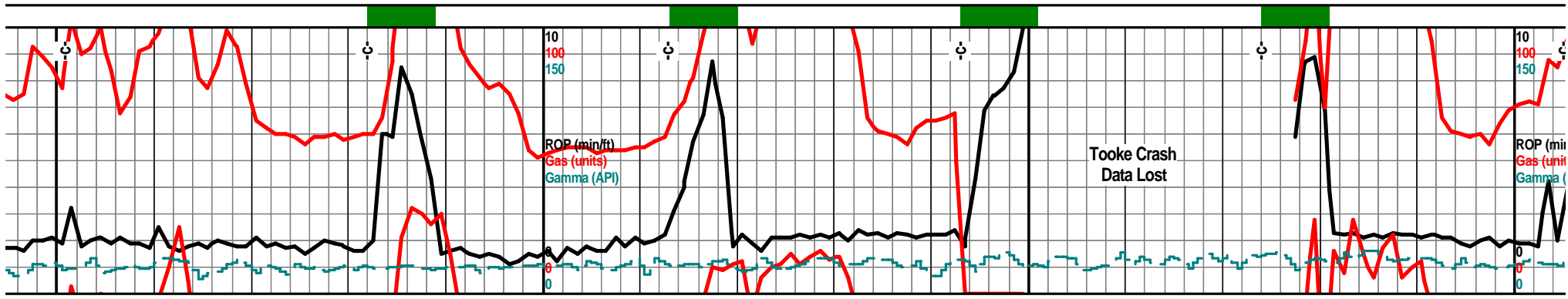
wht lt gry shrp frsh opa, transl, transp in ang shrds, with tan brn stained sli weath xt edges, ppp moldic por, tan brn stain tr stain sli odor, tr gas bubs, scatt dull UV

chrt off wht lt gry, smokey gry shrp frsh opa, transl, transp in trp, opa, shrp ang shrds, with weath sli trip text edges, pp moldic por, tan brn stain, sli odor, tr drk brn hvy stain, scatt UV

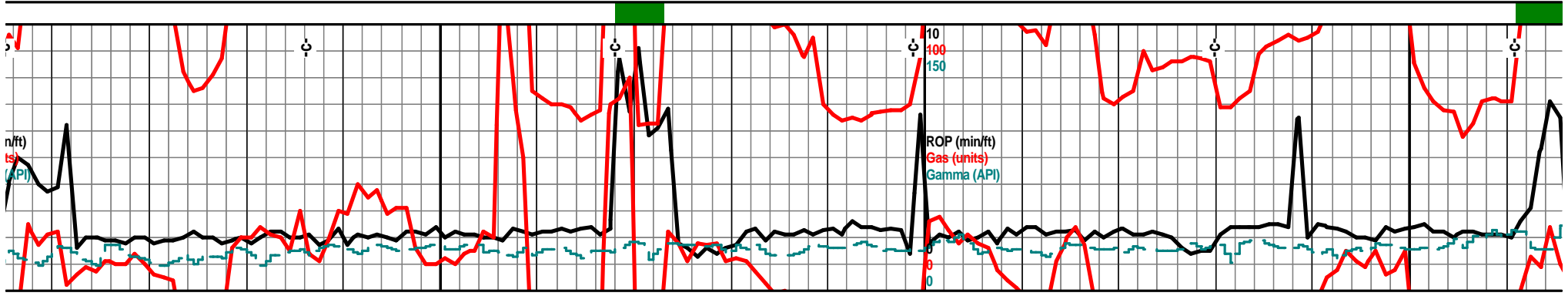
chrt wht off wht lt gry, lt smokey gry shrp frsh opa, transl, transp in prt, blk ang shrds and chrt lt gry smokey grey with weath sli trip gran edges/sides, pp moldic por, tan brn stain, tr hvy brn stain, filmy SFO, VSSFO w/brkn, tr gas dull scatt UV

4740

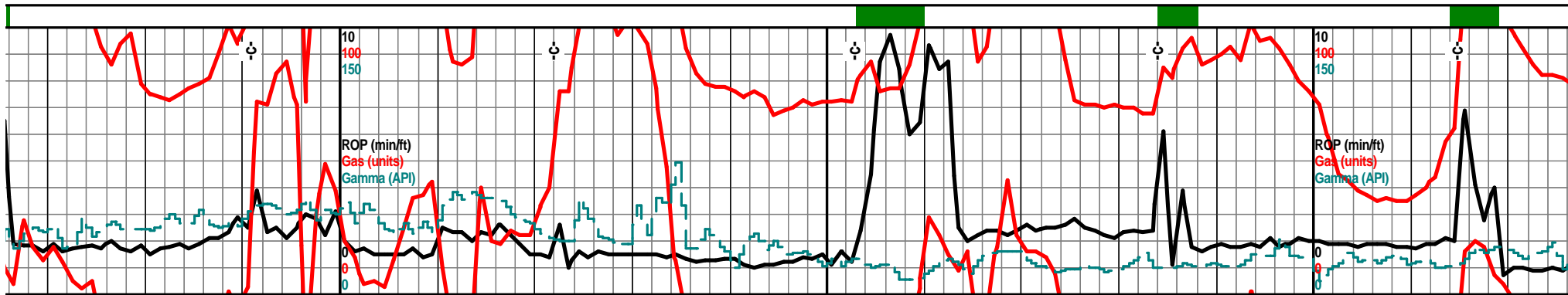
4740



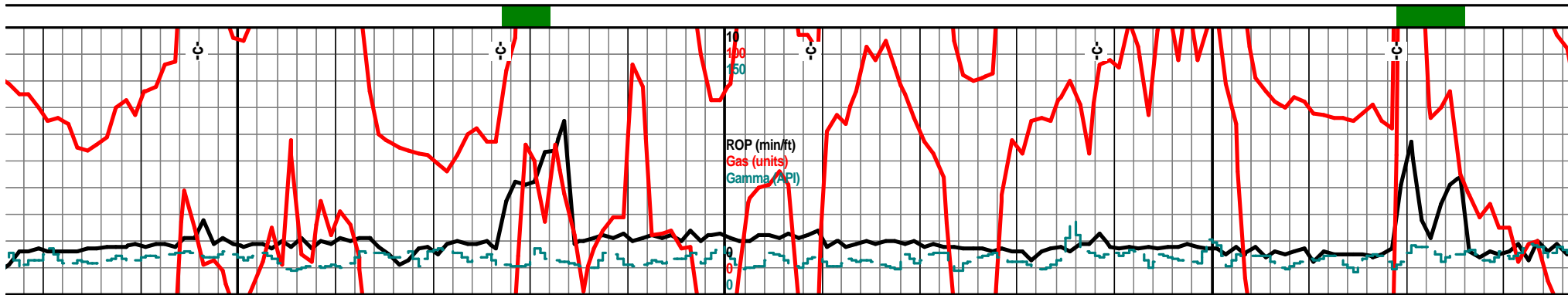
6260	6280	6300	6320	6340	6360	6380	6400
		4640 TVD		6350' 7 am May 9, 2013			4640 TVD
cht (mostly frsh), tan off wth lt tan shrp frsh opa, sub transl, transp in some, cht off wht tan with sli tr weath gran trip text edges, tan brn stain, tr hvy brn stain scatt rare UV, nodor in any of this				cht wht off wth, shrp frsh opa, blkly ang shrds, sub transl, cht crm tan brn mott weath gran crumbly, pp moldic por, inter gran por, tan lt brn stained, VSSFO on break, tr gas bubs, nodor, scatt dull UV, dolo in appearance			cht off wht lt tan shrp frsh opa, blkly ang shrds, sub transl, tr transp in prt, with tr weath gran sli trip text edges, some tan brn stain, drk brn hvy stain, dull scatt UV
4694' 89.6 deg @ 180.5 az		4694' 89.5 deg @ 180.1 az	4694' 89.8 deg @ 180.1 az	4695' 90.0 deg @ 180.3 az		4694' 90.7 deg @ 180.1 az	4690'
cht off wht lt tan shrp frsh opa, blkly ang shrds, sub transl, tr transp in prt, with tr weath gran sli trip text edges, some tan brn stain, drk brn hvy stain, dull scatt UV		cht off wht lt tan lt gry/tan shrp frsh opa, blkly ang shrds, sub transl, tr transp in prt, tr weath gran tan brn stained sli trip text edges, tan brn stain, pp moldic por, tr hvy brn stain, no gas, nodor in any, mstly frsh cht		cht lt gry off wht some tan, shrp frsh opa, sub transl, transp in prt, cht tan crm brn mott weath gran crumbly text, dolo text in prt, glau, pp moldic inter gran por, tan brn stain, scatt dull UV, filmy SFO w/brkn, nodor,			
		4740					4740



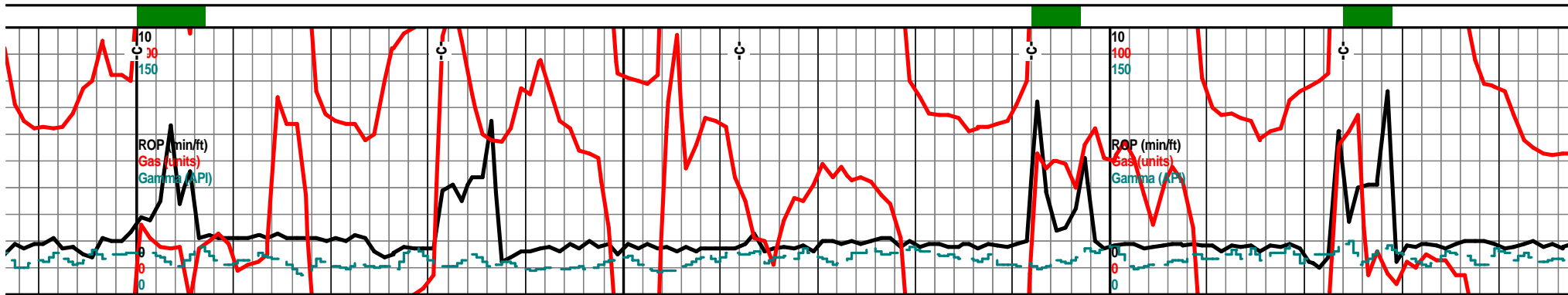
6420	6440	6460	6480	6500	6520	6540	6560	
Mud-Co. 6425' wt. 8.4 vis. 27 wl. NC chl. 600					4640 TVD			
gry, lt tan, shrp frsh opa, sub in prt, blkly and shrds, chrt crm tan n stained sli weath gran sli trip text, , tan brn stain, nodor, tr gas w/brkn		chrt off wht lt gry shrp frsh opa, transl, transp in prt, shrp blkly ang shrds, with chrt lt tan. lt tan brn shrp frsh opa with weath gran some crumbly sli trip text, pp moldic por, lt tan lt brn stained, filmy SFO on brk, tr gas on break, dull scatt UV, poor live show			chrt lt gry wht shrp frsh opa, sub transl, tr transp, chrt crm tan lt brn gran weath crumbly trip text, pp moldic por as before, tan lt brn stain, scatt UV			
4694' 91.1 deg @ 180.1 az		4693' 90.9 deg @ 180.7 az			4693' 90.1 deg @ 179.8 az			4693' 89.6 deg @ 179.6 az
chrt off wht lt gry, lt tan shrp frsh opa, sub trans, transp in prt, blkly ang frsh srds, chrt crm tan lt brn mott, with tan brn stained crumbly sli weath trip text, pp moldic por, tan brn stained, dull scatt UV, tr hvy brn stain, VSSFO/gas w/brkn		chrt gry tan fshr shrp opa as before, chrt off wht tan lt brn mott, weath gran semi soft crumbly sli trip text, pp moldic por, tan lt brn stain, filmy SFO w/brkn, tr gas w/brkn, nodor, scatt dull UV			chrt off wht incr frsh less weath opa, sub transl, tr transp in pr shards, tr with weath gran crur tan brn stain nodor, scatt dull			
					4740			



6580		6600		6620		6640		6660		6680		6700		6720	
		4640 TVD								Bit Trip 6684' 7 am May 10, 2013 Mud-Co. wt. 8.4 vis. 27 wl. NC chl. 600 ppm		4640 TVD			
chrt wht off wht, tr cloudy, shrp frsh, gran in prt, chrt lt gry off wht shrp frsh opa, tansl, tr transp, tr weath gran tr crumbly text, glau, tr tan brn stain, tr yellow stain nodor, scatt UV poor shows				chrt wht off wht, mstly wht, frsh shrp blkly filky pcs, sub transl, mostly opa, with tr weath gran sli trip edges/sodes, ta lt brn stain, pp moldic por, smpl 90% wht filky barren chrt								chrt off wth lt gry, lt gry smokey in prt, shrp frsh opa, sub transl, some transp, chrt off wht tan lt brn stained, gran weath sli trip text, pp moldic por, tan brn stain, tr filmy RBSFO, dull scatt UV nodor in any			
4694' 88.4 deg @ 179.2 az		4694' 88.2 deg @ 178.7 az		4695' 88.6 deg @ 178.4 az		4696' 90.7 deg @ 178.5 az		4695' 90.8 deg @ 178.2 az				4695' 90.8 deg @ 178.2 az			
h material, shrp frsh rt, blkly ang shrp nbly sli trip edges, UV				chrt off wth lt gry, lst smokey gry shrp frsh opa sub transl, some transp, chrt tan brn mott, weath sli trip crumbly text, pp moldic por, tan brn stain, filmy SFO on brk, scatt dull UV, odor?, incr por and show this spl				chrt lt gry clr, shrp frsh opa, sub transl, some transp, blkly ang shrds, chrt tan crm lt brn mott, tan brn stained gran crumbly sli weath sli trip text, pp moldic por, tan brn stain, scatt UV							
		4740										4740			



6740		6760		6780		6800		6820		6840		6860		6880	
4640 TVD															
				chrt off wht lt gry/wht shrp frsh opa, sub transl, transp in prt, blkly ang shards, with tan lt brn weath sli gran sli trip text, pp moldic por, tan lt brn stain, dull scatt UV, nodor, NSFO or gas								chrt lt tan lt gry, lt smokey gray, shrp frsh opa, sub transl, some transp, blkly ang shrds, chrt off wth lt gry tan, lt tan brn stained with weath gran crumbly text, tan brn stained, tr filmy SFO on brk, scatt UV, nodor			
4695' 90.6 deg @ 178.7 az		4695' 90.0 deg @ 178.5 az		4695' 89.1 deg @ 179.2 az		4695' 89.1 deg @ 179.2 az		4695' 88.6 deg @ 178.9 az		4696' 88.8 deg @ 178.9 az		4697' 89.1 deg @ 179.2 az		4697' 89.1 deg @ 179.2 az	
4690															
chrt lt gry lt gry smokey shrp frsh opa, transl, some transp, chrt wht sli off wht frsh soft gran in prt, tr weath sli trip text, pp moldic por, tr vug por, tan brn stain, filmy SFO w/brkn, tr gas bubs, floaters, dull scatt UV								chrt off wht lt gry, vry lt smokey gry shrp frsh opa transl, transp in most, with tan lt brn stained weath gran sli trip text edges/sides, tan brn stain, pp moldic por, inter gran por, dull scatt UV nodor in any				chrt lt gry lt smokey gry, off wht tan, shrp frsh opa, sub transl, some transp, chrt off wht lt gry/brn, sli weath gran some sli trip text edges/sides, pp moldic por, tan lt brn stained, pp moldic por, nodor, tr scatt UV, tr filmy SFO on brk			
4740															



6900 6920 6940 6960 6980 7000 7020 7040

4640 TVD
 6 am 6931' Saturday May 11, 2013
 4640 TVD

tr lt smokey gry, shrp frsh blkly, sub transl, some transp, chrt gran weath vry sli trip text moldic por, tan lt brn stained, brk, dull scatt UV, nodor

chrt wht off wht some lt gry, lt smokey gry shrp frsh opa, transl, some transp, mstly chrt tan lt brn mott, weath gran sli trip text, pp moldic por, small vug por, tan brn stained, sli odor, tr filmy RBSFO on break, rare gas bub on brk, scatt spotted dull UV

chrt lt gry lt smokey gry shrp frsh opa, sub transl, some transp in prt, chrt tan lt brn mott, weath crumbly sil trip text, pp moldic por, inter gran por, tan lt brn stained, tr RBSFO on brk, tr gas on brk, nodor in any, dull scatt UV

4697' 89.8 deg @ 179.9 az
 4697' 90.3 deg @ 179.9 az
 4697' 89.7 deg @ 179.6 az
 4697' 89.1 deg @ 179.6 az
 4698' 88.8 deg @ 180.1 az

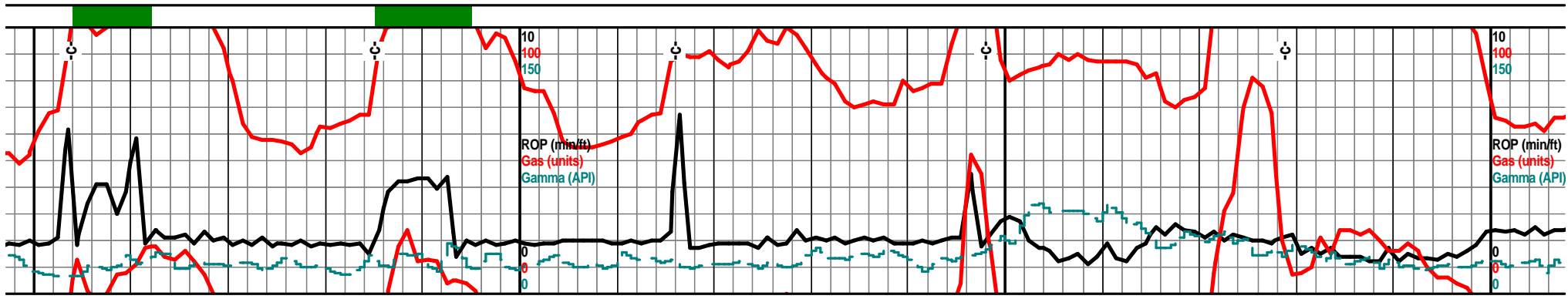


chrt lt gry lt smokey gry, off wht tan, shrp frsh opa, blkly ang frsh shrds, sub transl, some transp, chrt tan off wht lt brn, gran weath vry sli trip text edges/sides, pp moldic por tan lt brn stain, filmy RBSFO on brk, tr gas bubs, nodor in any, dull scatt UV

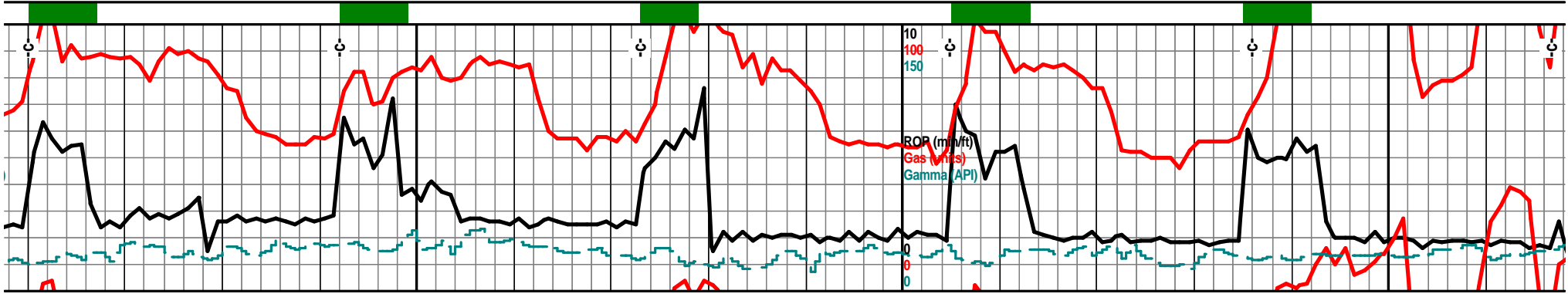
chrt off wht lt gry lt smokey gry, shrp frsh opa, chrt off wht tan lt brn mott, weath gran crumbly text, pp moldic por, tan lt brn stain, scatt UV, no real change

chrt lt gry lt smokey gry shrp fr transl, chrt tan lt brn weath gran moldic por, tan lt brn stained, s

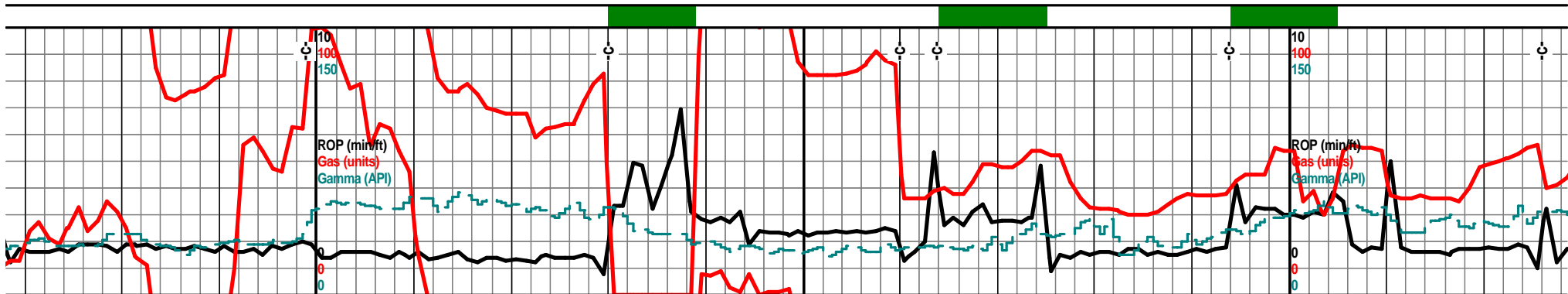
4740 4740



7060	7080	7100	7120	7140	7160	7180	7200
Mud-Co. 7061' wt. 8.4 vis. 28 wl. NC chl. 600 ppm		4640 TVD					4640 TVD
chrt off with wht, lt gry, lt smokey gry, shrp frsh blkly ang shards, sub transl, some transp, chrt wht off with tan lt brn with weath gran crumbly sli trip edge/side text, pp moldic por, tan brn stained edges, SRSFO on break, tr gas on break, nodor, dull scatt UV			chrt wht off wht lt gry shrp frsh blkly ang shrp shrds, transl, transp in some, chrt tan off with lt brn gran weath sli trip text, pp moldic por, inter gran por, tan lt brn stain sli odor?, dull scatt UV			chrt wht off with shrp shrp frsh opa, transl, some transp, blkly ang frsh shrds, tr with weath gran crumbly text, pp moldic or, tan lt brn stain, lst/dolo wht f xln, blkly ang chrtly pcs, acid=fizz, spl 90% this!	
	4698' 89.6 deg @ 180.8 az	4698' 91.0 deg @ 181.5 az		4697' 91.6 deg @ 181.0 az		4696' 92.5 deg @ 181.2 az	4695' 93.8 deg @ 181.4 az
sh opa, transl, tr an sli trip text, ppp catt UV			chrt off with lt gry lt gry smokey shrp frsh opa, tansl, transp in pr,t shrp blkly ang shrds, chrt tan lt brn gran weath crumbly text, pp moldic por, tan lt brn stain, tr filmy SSFO on brk tr gas on brk, nodor in any			chrt wht off wht some lt gry shrp frsh opa, tansl, some transp, vit, chrt wht off wht tan, drk tan, tan lt brn stained, pp moldic por, scatt UV, vis shows deceasing with depth	
		4690					4690
		4740					4740

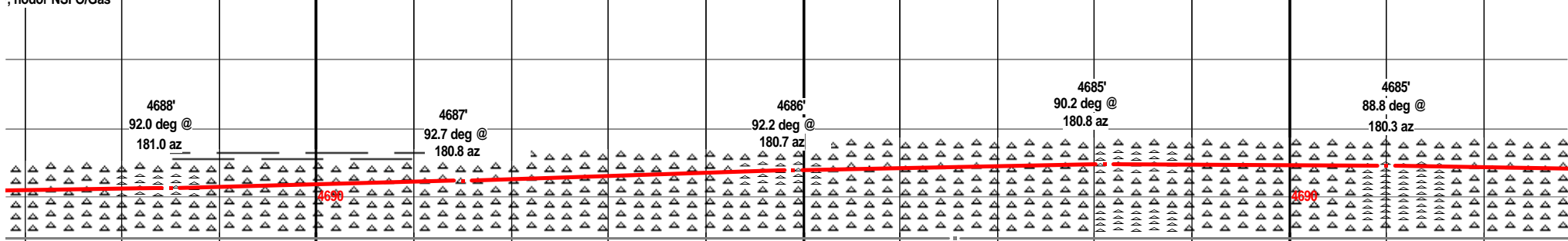


7220	7240	7260	7280	7300	7320	7340	7360	
				4640 TVD				
	chrt wht flky gran soft crumbly, calc, tr glau, chrt wht off wht, gran flky sli weath, pp moldic por, tr sli tan lt brn edge stain, lst tr dolo, wht f xln gran acid=fizz			chrt wht off wht lt gry shrp frsh opa, shrp frsh blkly ang shrds, sub transl, some transl, chrt wht off wht gran soft flky, sli weath gran sli trip text, pp moldic por, tan lt brn stain scatt UV, nodor in any, lst/dolo wht off wht f vf xln gran flky, tr glau			chrt off wht wht to transl, some transl, gran flky sli weath stained edges/side stain, dull scatt UV	
				4690' 91.9 deg @ 180.8 az		4689' 90.8 deg @ 180.8 az	4689' 90.0 deg @ 181.0 az	
4693' 93.2 deg @ 180.4 az		4691' 92.7 deg @ 180.8 az						
chrt wht, flky, gran, chly soft, calc, chrt off wht lt gry shrp frsh opa ang blkly shrds, chrt crm tan lt brn mott, flky gran sli weath trip text, pp moldic por, tan lt brn stain, nodor or gas, dull scatt UV, incr frsh and weath chert in sample			chrt wht off wht semi frsh, opa, transl, tr transp in prt, flky gran, with chrt wht off wht gran sli weath sli trip text, tan lt brn stained edges, sides, pp moldic por, tan lt brn stain dull scatt UV, nodor in any, chrt lt gry, lt smokey gry shrp frsh opa, semi transl, some transp, blkly ang shrds			chrt off wht lt gry clr, shrp blkly ang opa, sub transl, some transp shrds, chrt off wht lt tan, gran crumbly sli weath, sli trip text, pp moldic por, tan lt brn stain, dull scatt UV, nodor, lst/dolo wht off wht f xln gran flky tr glau		
				4740				

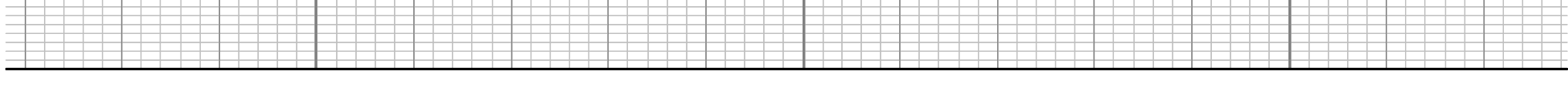


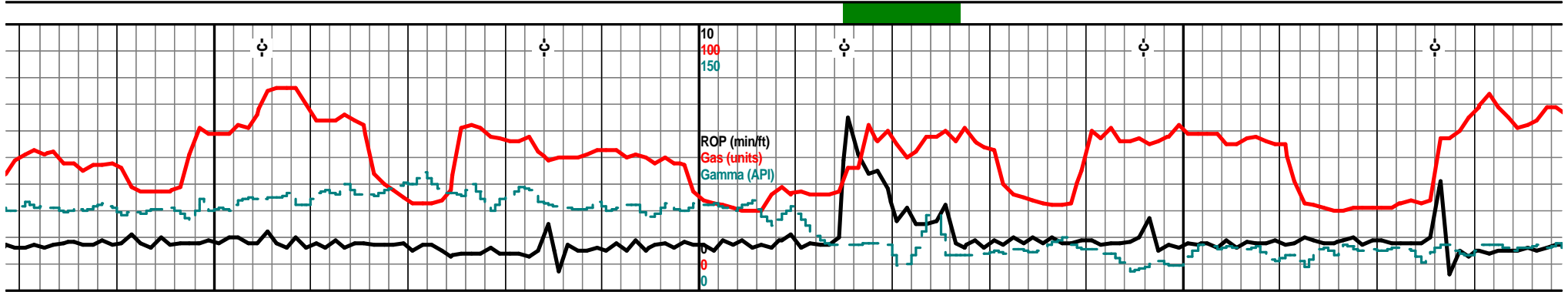
7380 7400 7420 7440 7460 7480 7500 7520

	7400' 8 am/D May 12, 2013			Bit Trip 7460' 7" Casing Parted			4640 TVD	
clr, frsh blkly ang shrds, sub p in prt, chrt wht off wht tan, some sli trip text, tan lt brn s, pp moldic por, tan lt brn ', nodor NSFO/Gas			chrt off wth, gry wht shrp frsh opa, transl, transp in prt, filky gran slli weath text, tan lt brn stained edges, pp moldic por, dull scatt UV, red, gry red shls, tr gry green shls			chrt off wth lt gry lt smokey gry, shrp frsh opa, tansl, some transp, milky, chrt tan off wth lt tan/brn gran weath crumbly text, pp moldic por, tan lt brn stained, scat dull UV nodor in any		

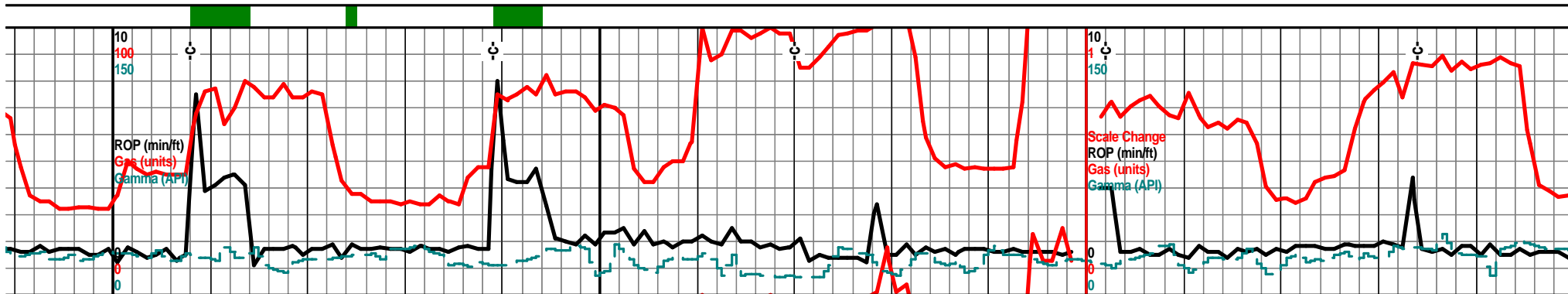


	4688' 92.0 deg @ 181.0 az		4687' 92.7 deg @ 180.8 az		4686' 92.2 deg @ 180.7 az		4685' 90.2 deg @ 180.8 az	4685' 88.8 deg @ 180.3 az
		chrt off wht lt gry, shrp frsh opa, sub transl, some transp in prt, filky gran text, sli weath text, pp moldic por, tan lt brn stained,		chrt off wth lt gry, tr lt gry smokey, opa, transl, some transp, chrt tan lt brn mott gran weath crumbly text, tan lt brn stain, dull scatt UV, red bed shls, smooth rded pcs, nodor in any				chrt wht off wht lt tan weath crumbly moldic por, tan lt brn stain, sli odor' RBSFO on spl water, chrt lt gry lt sn frsh opa, transl, tr transp in prt, blk
		4740						4740

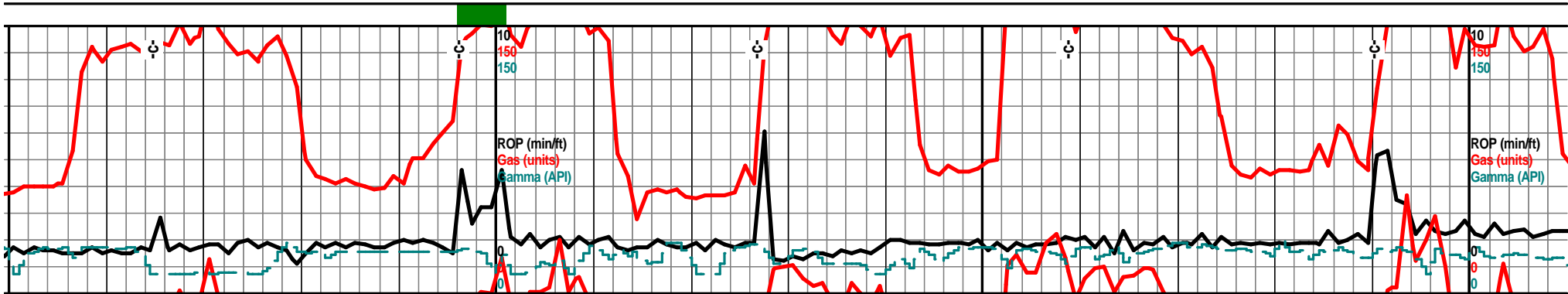




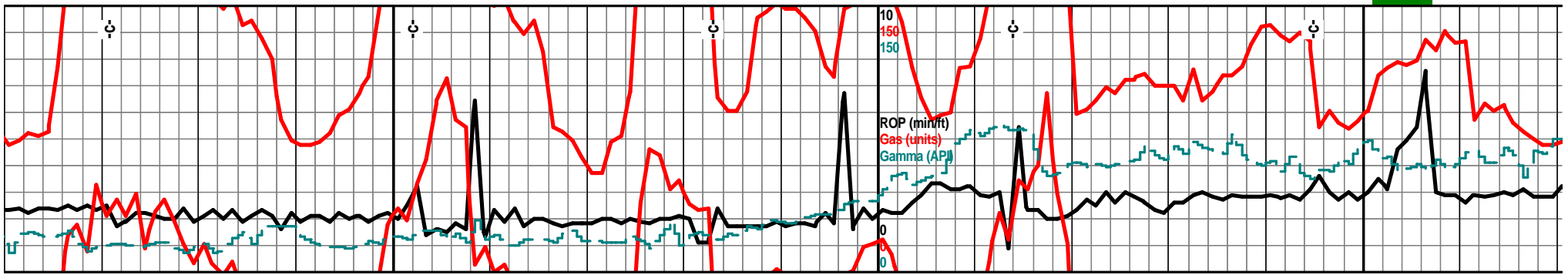
7540	7560	7580	7600	7620	7640	7660	7680
			4640 TVD				
chrt clr lt gry lt smokey shrp frsh opa q blk y shrds, transl, transp in prt, chrt wht off wht, limy, crumbly gran text, pp moldic por, tan lt brn stained edges/sides, scatt dull UV nodor, acid=no fizz			chrt off wht lt gry, lt smokey gry, clr, opa q, transl, mstly transp, blk y ang shrds, chrt off wht lt tan lt brn, gran weath crumbly text, pp moldic por, tan lt brn some brn stain, dull scatt UV, sli filmy RBSFO on brk, vry sli odor?			chrt clr, lt gry, lt smokey gry, shrp frsh opa q, transl, some transp in prt, blk y ang shrds, chrt off wht tan, lt brn, lt brn stained weath gran crumbly text, pp moldic por, tan brn stain, scatt dull UV nodor,	
4686' 88.6 deg @ 180.3 az	4686' 89.4 deg @ 180.7 az	4686' 89.6 deg @ 180.7 az	4687' 87.4 deg @ 180.8 az	4689' 87.1 deg @ 181.0 az			87
y gran text, pp ?, filmy rokey try shrp cy ang shrds	chrt off wht, clr, lt gry shrp frsh opa q, transl, transp, mstly chrt tan drk tan brn gran crumbly weath text, pp moldic por, tan drk brn stained, tr gas bubs, tr filmy SFO, scatt dull UV			chrt off wht lt tan, lt tan brn, gran weath crumbly text, tan lt brn stained edges/sides, pp moldic por, tan brn stain, chrt lt gry clr transl, transp, dolo wht off wht f vf xln gran, chiky, sndy text,			cl tr w c R
			4740				



7700	7720	7740	7760	7780	7800	7820	7840
4640 TVD					7 am 7800' May 15, 2013	4640 TVD	
	chrt clr lt gry vry lt smokey gry shrp frsh opa some transl, alot transp, shrp ang lky shrds, chrt off wht tan, tr lt brn mott, gran crumbly text, dolo in prt, tan lt brn stained edges/sides, scatt UV, dolo wht off wht f xln gran sndy text, chrt glau, inter xln por, with tan brn stained edges			chrt off wht lt gry, vry lt smokdy gry shrp frsh opaq, blk ang shrds, some transp, chrt off wht lt tan lt brn, weath gran some crumbly text, pp moldic por, tan lt brn stained edges/sides, some tan wht f vf xln glau dolo content, gran sndy text,			chrt off wht lt gry : transp in prt, blk brn gran weath cr glau in prt, chrt c gran por, tan lt brn
4690' 7.5 deg @ 180.8 az	4691' 88.8 deg @ 180.7 az		4692' 89.7 deg @ 180.1 az	4692' 89.8 deg @ 180.7 az	4692' 90.2 deg @ 180.3 az		4692' 90.1 deg @ 180.3 az
hrt lt gry off wht some clr, shrp frsh opa, transl, transp in prt, shrp blk ang shrds, and chrt off wht tan, lt brn, tan lt brn stained weath gran text, rumbly filky pcs, tan lt brn stained, tr filmy BSFO on brk, dull scatt UV			chrt off wht tan, lt brn, gran weath crumbly edges, tan brn stained edges/sides, pp moldic por, off wht f xln gran sndy dolo text in prt, chrt clr lt gry lt smokey gry shrp frsh opa, trans, mstly transp,		chrt off wht lt gry, clr, shrp frsh opa, transl in prt, mstly transp, blk ang shrds, dolo off wht tan f vf xln gran sndy text, tr glau, inter gran por, some crm tan lt brn stain, tr filmy SFO on break, scatt dull UV, sli odor?? acid=fizz, some chrt in prt, chrt inclu		
4740					4740		



7860	7880	7900	7920	7940	7960	7980	8000
		4640 TVD					4640 TVD
shrp frsh opa, transl, some ang shrds, chrt tan off wht lt umbly text, dolo f xln gran sndy :hrt inclu, pp moldic por, inter n stain scatt dull UV		chrt off wht lt smokey gry shrp frsh opa, transl, some transp in prt, shrp blk ang shrds, chrt off wht tan lt brn, gran weath crumbly edges, pp moldic por, tan lt brn staine edges/sides, tr dolo fill/content, tan off wht vf xln gran sndy text, glau, chrty, chrt inclu, scatt UV				chrt wht off wht lt gry in prt, shrp frsh opa, blk ang shrp shrds, transl, chrt tan crm lt brn gran weath crumbly text, pp moldic por, tan brn stain, dolo wht off wht tan f vf xln gran gritty sndy text, glau, chrty, chrt inclu, scatt dull UV nodor in any, poor shows continue!	
4692' 6 deg @ 10.3 az	4691' 90.5 deg @ 180.3 az	4690'	4691' 89.8 deg @ 180.1 az	4691' 90.0 deg @ 180.7 az		4691' 90.2 deg @ 180.5 az	4691' 90.0 deg @ 179.6 az
	chrt off wht lt gry, shrp frsh opa transl some transp in prt, shrp shards, chrt tan off wht crm lt brn, gran weath crumbly edge text, pp moldic por, tan lt brn stain, sli odor?, dolo fill, f vf xln gran sndy text, glau, chrty, w/chrt inclu, tan brn stain also, dull scatt UV			chrt wht off wht tan, lt gry, shrp frsh opa transl, transp in some, shrp ang shards, chrt tan lt brn off wht, gran weath sli trip text pp moldic por, tan lt brn/brn stain, scatt UV, some dolo fill, f xln gran sndy gritty text, glau, chrty, chrt inclu, tan brn stain, gas stain			chrt lt gry, tr lt smokey gry, shrp frsh o before, chrt off wht tan lt brn, gran weath text, pp moldic por, tan lt brn stain, dol some, tan off wht f xln gran soft gritty s
		4740					4740



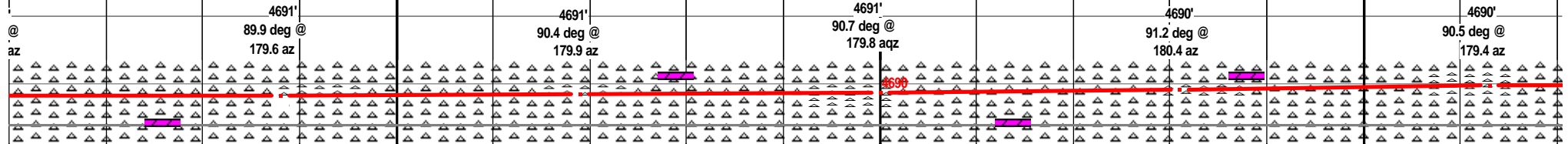
8020 8040 8060 8080 8100 8120 8140 8160

4640 TVD

chrt clr, wht off wht lt gry shrp frsh opa. sub
transl, mstly transp, blkly ang shrds, chrt off wht lt
tan lt brn weath gran some crumbly sli trip text,
pp moldic por, tan lt brn stained edges, dolo crm
off wht f xln gran sndy gritty text, tr glau, chrty,
with chrt inclu

chrt off wth lt gry , shrp frsh opa, transp, blkky
ang shrds, chrt tan off wth lt brn, weath sli trip
gran text, dolo in prt tan off wht lt brn stained, f
xln gran sndy gritty text, chrty in prt, chrt inclu,
tan lt brn stain, nodor, scatt dull UV, acid=fizz

chrt wht, clear, off wht, tr lt gry shrp frsh opa,
transl in some, mstly transp, shrp blkly ang shrds,
some dolo off wht lt green tint, f vf xln with sndy
gran text, tr glau, chrty, chrty aa with dolo edge



4690

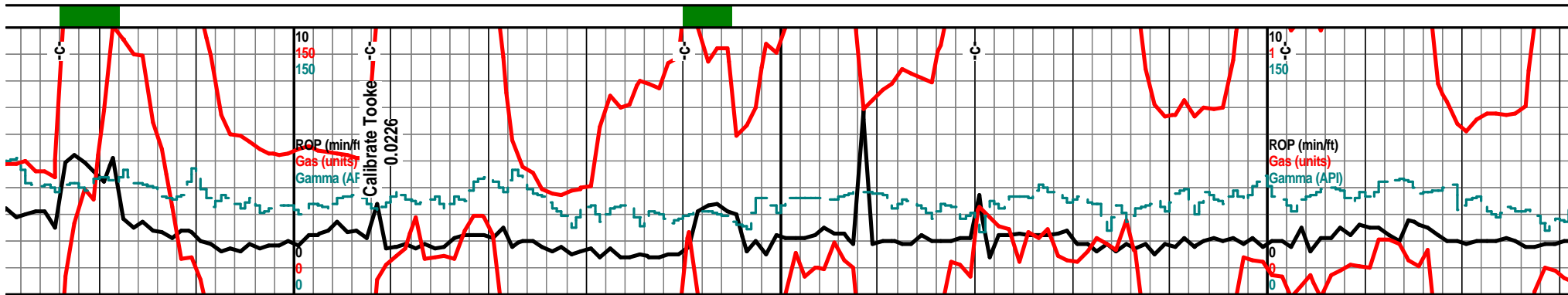
paq as
th crumbly
lo fill in
sndy tr glau

chrt off wth lt gry shrp frsh opa, transl, transp in
prt, shrp blkly shards, chrt tan off wht lt brn weath
gran crumbly text, dolo in prt, f xln gran gritty
sndy, glau, chrty, chrt inclu, tan lt brn stain

chrt off wht lt gry shrp frsh opa transp, transl as
before, chrt tan brn mott shrp frsh with weath
gran crumbly edge/sides, pp moldic por, tan brn
some drk brn stain, dull scatt UV, nodor NSFO in
any, dolo lt gry green, f vf xln gran gritty soft sub
chilky

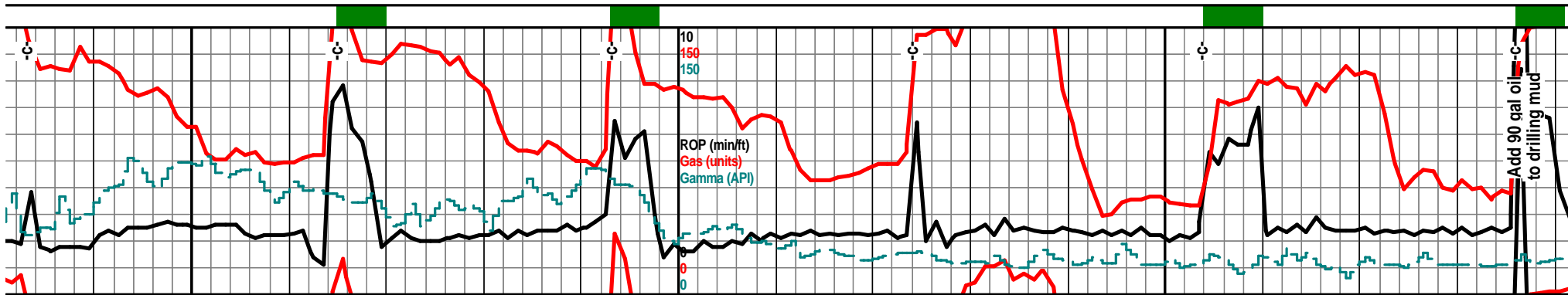
chrt
trans
off w
chrt i

4740

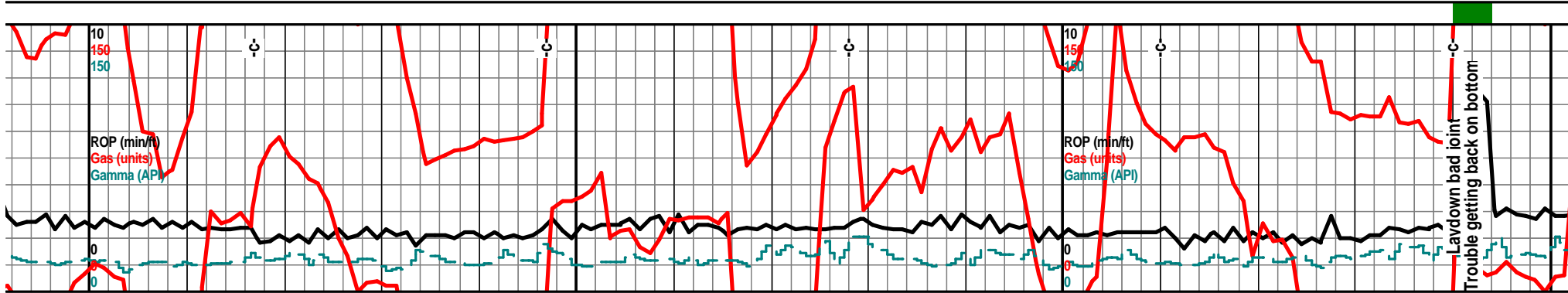


8180 8200 8220 8240 8260 8280 8300 8320

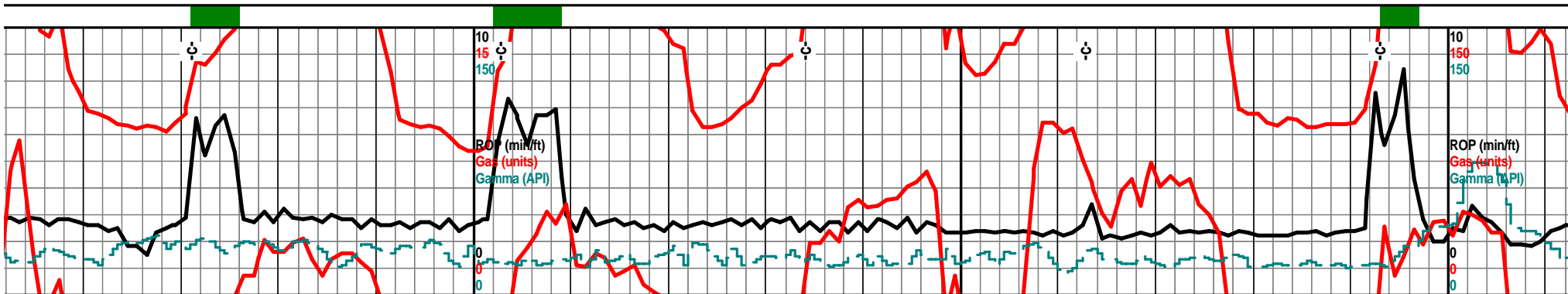
		4640 TVD				4640 TVD			
		Bit Trip 8208' 7 am May 17, 2013							
chrt wht, clear, off wht, lt gry in prt, frsh opa, tansi, transp in some, shrp blkly ang shrds, dolo off wht, wht w/lt green tint, f vf xln gran, tr sndy text, tr glau, chrty. chrty aa with dolo edge, mstly barren, NS		chrt clr lt gry shrp frsh opa, semi transp, mstly chrt clr/brn and drk brn shrp frsh opa, sli weath text, drk tan drk brn stained, sli odor? tr gas on brk, some frac por,		chrt lt tan, mstly drk brn, frsh shrp blkly ang shrds, w/tr weath gran text, pp moldic por on sli weath edges, drk brn stained, nodor, NSFO, tr vis frac por, scatt dull UV					
4690' 89.9 deg @ 178.4 az		4690' 89.9 deg @ 178.5 az		4690' 88.8 deg @ 178.0 az		4691' 88.8 deg @ 177.7 az		4691' 88.9 deg @ 177.7 az	
wht, clear, off wht, lt gry, shrp frsh opa, sl, mstly transp, blkly ang shards, some dolo off wht lt green tint, f vf xln gran chrty sndy text, inclu, mstly barren, NS		chrt off wht lt gry shrp frsh opa, some drk brn shrp frsh opa semi transp, drk brn stain, shrp blkly ang pcs, dolo crm tan lt green tint, f vf xln gran sndy gritty glau, chrty, some chrt inclu, spl valid?		chrt lt gry/clr shrp frsh opa sub transl, mstly chrt drk brn shrp frsh, sub opa, blkly sharp shards, drk brn stained, tr weath edge, some pp por tr frac por? dolo off wht crm lt green tint, f vf lxn gran sndy gritty, tr glau, chrty in prt, tr chrt inclu		chrt c weatl sharc gry s dolo glau			
4740		4740				4740			



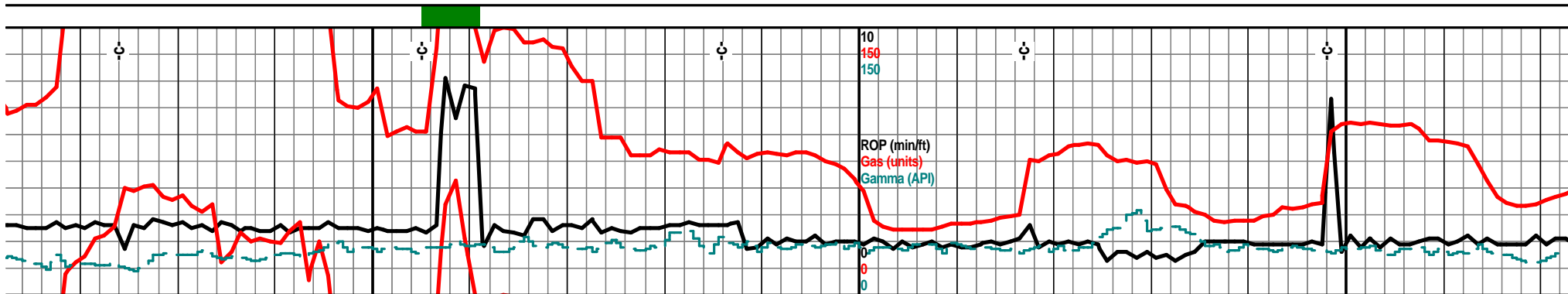
8340	8360	8380	8400	8420	8440	8460	8480
			4640 TVD	6 am 8420' May 18, 2013			Mud-Co. 8485' wt. 8.4+ vis. 27 wl. NC chl. 900 ppm "Bortz" Report
	chrt drk tan drk brn shrp frsh wth drk brn stain as before decreasing, incr chrt off wht, wht, vry lt gry shrp frsh w/gran weath crmbly text, pp moldic por, tr stain, overall show dec, dolo off wht lt tan f vf xln gran soft, tr sndy text, chrty in some, tr chrt inclu, chrt aa w/gran dolo edge			drk brn chrt as before, chrt tan off wht shrp frsh opa, sub transl, tr weath gran edge, crumbly text, tan brn stain, dolo off wht tan f vf xln blkly ang some sndy text, chrty, tan lt brn chrt inclu, tan lt brn stain. nodor, scatt UV			chrt lt gry off wht tr opa, transl, with tr tan brn stain, sli odo gran weath text, tr dr gran gritty glau, sc
	4692' 88.7 deg @ 177.5 az	4693' 88.6 deg @ 178.2 az	4693' 88.9 deg @ 177.8 az	4694' 89.5 deg @ 178.0 az	4694' 89.1 deg @ 179.2 az		
drk tan brn shrp frsh opa, sub transl, w/sli h edge, pp moldic por, mstly frsh shrp blkly ds, drk tan drk brn stain, frac por? chrt clr lt hrp frsh semi transl, some transp frsh opa, off wht lt green tint, f vf xln, gran gritty sli			chrt lt brn/drk brn shrp frsh opa, semi transp in prt, shrp blkly ang shrds, with tr weath gran edge, pp por, some frac por?, drk brn stained, nodor NSFO, chrt off wht clr shrp frsh opa transp, some dolo off wht, green tinted, f vf xln gran sndy text, tr glau, arg		chrt off wth lt gry, frsh shrp blkly ang pcs with sli weath vry sli trip text edges, pp moldic por, tan lt brn stain, nodor, dull scatt UV, some with tan lt brn dolo edge, f vf xln gran gritty chrty, tan lt gry chrt inclu, some lt tan/brn stain here also		
			4740				



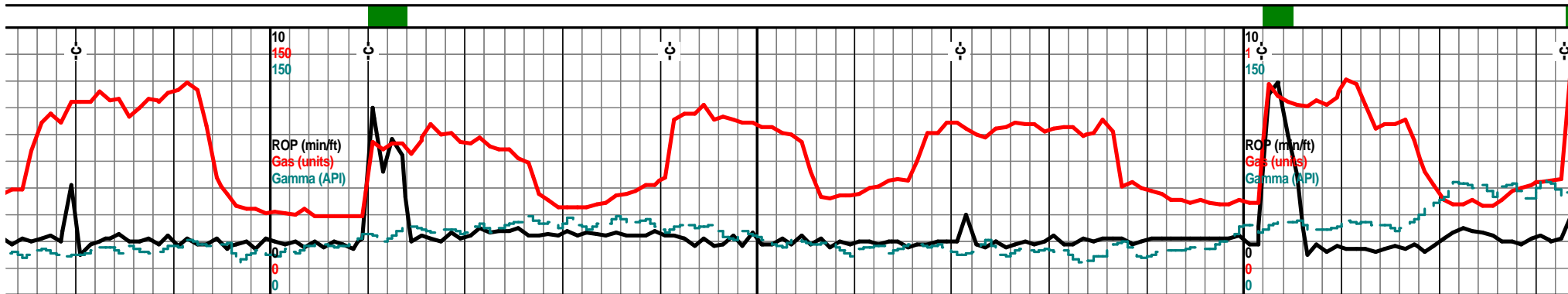
8500	8520	8540	8560	8580	8600	8620	8640
4640 TVD					4640 TVD		
tan lt brn mott, frsh shrp weath gran sli trip text edges, r??, chrt wht off wth frsh dolo in prt, tan off wht crm f xln lt dull UV		chrt off wht tan lt brn mott, frsh with sli weath gran edges, pp moldic por, tan brn stain, sli odor? scatt UV, chrt wht tan brn mott, gran crumbly sli weath text, tr frsh shrp opaq lt gry blkly with weath gran crumbly edges,			chrt off wht lt gry, lt smokey gry, frsh opaq, with tan lt brn stained, sli weath text edges, tan brn stain, pp moldic por, chrt tan lt brn frsh and sli weath gran crumbly text, pp moldic por, tan lt brn stained, tr dull UV, nodor in any		
4695' 88.9 deg @ 179.6 az	4695' 89.2 deg @ 180.1 az		4696' 89.5 deg @ 179.6 az		4696' 90.2 deg @ 179.6 az		4695' 90.7 deg @ 179.9 az
4696'					4696'		
chrt off wht lt tan/brn, some lt gry mott, frsh shrp blkly ang with sli weath gran sli trip text edges, some pp moldic por, tan brn stain, sli odor, chrt tan lt gry/brn with dolo edges/fill f vf xln gran gritty glau, sli scatt UV in most poor rx			chrt crm tan lt brn mott, sli weath text, gran crumbly text, pp moldic por, tan brn stain, chrt off wht gry shrp frsh opaq with weath gran sli trip text edges, pp moldic por, tan brn stain scatt dull UV nodor or live show				chrt off wht tan lt brn frsh shrp opaq tr weath gran crumbly text edges/sides, por, tan lt brn stain, chrt off wht shrp fi with weath gran dolo fill, tan f vf xln gran stain
4740					4740		



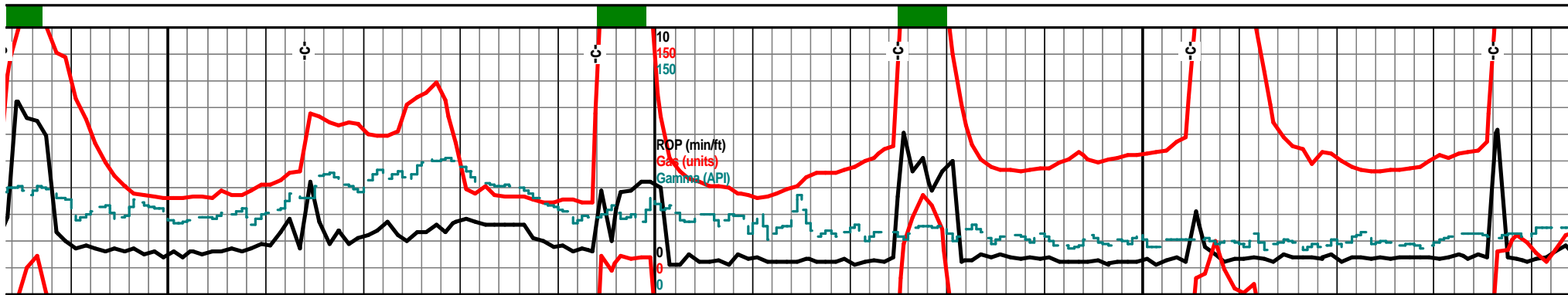
8660	8680	8700	8720	8740	8760	8780	8800
		4640 TVD			8763' 7 am May 19, 2013		4640 TVD
chrt off wht, tan lt brn mott, weath gran crumbly text, pp moldic por, tan lt brn stained edges, chrt lt gry shrp frsh with weather gran edge, pp moldic por,			chrt crm tan lt brn mott, some gry shrp opaqq with tan lt brn mott edges, weath gran crumbly text in most, tan brn stained weath edges, pp moldic por, nodor, NSFO, scatt dull UV, chrt wht off wht lt gry shrp frsh opaqq, sub transl, transp in prt			chrt lt gry, lt smokey gry shrp frsh opaqq, with tan lt brn sli weath gran text edges, tan brn stain, pp moldic por, chrt off wht lt gry shrp frsh sub transl, some transp, some dolo, wht lt green tint, f vf xln gran gritty, some sndy text, tr glau	
4695' 90.5 deg @ 179.6 az	4695' 89.9 deg @ 179.4 az	4695' 88.5 deg @ 179.1 az	4696' 88.4 deg @ 178.7 az	4697' 89.1 deg @ 178.7 az	4697' 89.4 deg @ 178.9 az	4690	4690
'ansl with pp moldic rsh opaqq 'an gritty		chrt crm tan lt brn mott, some gry shrp opaqq with tan lt brn mott edges, weath gran crumbly text in most, tan brn stained weath edges, pp moldic por, nodor, NSFO, scatt dull UV, chrt wht off wht lt gry, shrp frsh opaqq sub transl, transp in prt.		chrt crm tan lt brn mott, some gry shrp opaqq with tan lt brn mott edges, weath gran crumbly text in most, tan brn stained sli weath edge text, pp moldic por, nodor, NSFO in any, scatt dull UV, chrt wht off wht lt gry, shrp frsh opaqq, sub transl, transp in prt, poor shows!		chrt trans text, dolo gritty	
		4740					4740



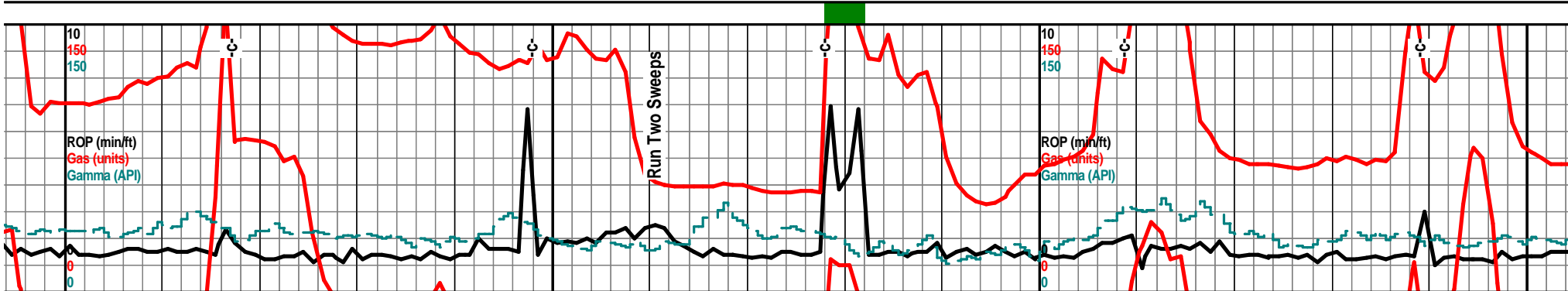
8820	8840	8860	8880	8900	8920	8940	8960
		Mud-Co. 8855' wt. 8.5 vis. 28 wl. NC chl. 800 ppm		Bit Trip 8886' 7 am May 20, 2013	4640 TVD		
	chrt crm tan lt brn, weath gran crumbly text, pp moldic por, tan brn stained, nodor, NSFO, scatt dull UV, chrt lt smokey gry shrp frsh opa sub transl with weath gran crumbly edge aa, tan brn stained, scatt UV				chrt crm tan lt brn mott, weath gran crumbly text, pp moldic por, tan brn stained edges, nodor, NSFO, scatt UV, chrt smokey gry shrp frsh opa sub transl with tan brn weath mott edge aa		chrt off wht tan crm lt brn r crumbly text, pp moldic por chrt lt smokey gry shrp frsh tan brn weath gran crumbly moldic por tan brn stain dul
	4697' 89.9 deg @ 178.7 az		4697' 90.1 deg @ 179.6 az	4697' 90.3 deg @ 179.6 az		4697' 90.8 deg @ 179.4 az	4697' 91.2 deg @ 179.4 az
	lt gry tan brn mott, gry shrp frsh opa sub sl with tan brn sli weath gran crumbly edge pp moldic por, tan/brn/drk brn stain, nodor, off wht lt tan, tr lt green tint, f vf xln gran y text, tr glau, acid=fizz		chrt crm tan lt brn mott, weath gran crumbly text, pp moldic por, tan brn stained edges sides, nodor, NSFO, scatt dull UV, chrt lt smokey gry shrp frsh opa sub transl with sli weath gran crumbly edges, tan brn stain,			chrt crm tan lt brn mott, weath gran crumbly text, pp moldic por, tan brn stained edges/sides, chrt lt gry smokey gry shrp frsh opa sub transl with weath gran tan brn mott edges/sides, nodor, NSFO, scatt dull UV	
				4740			



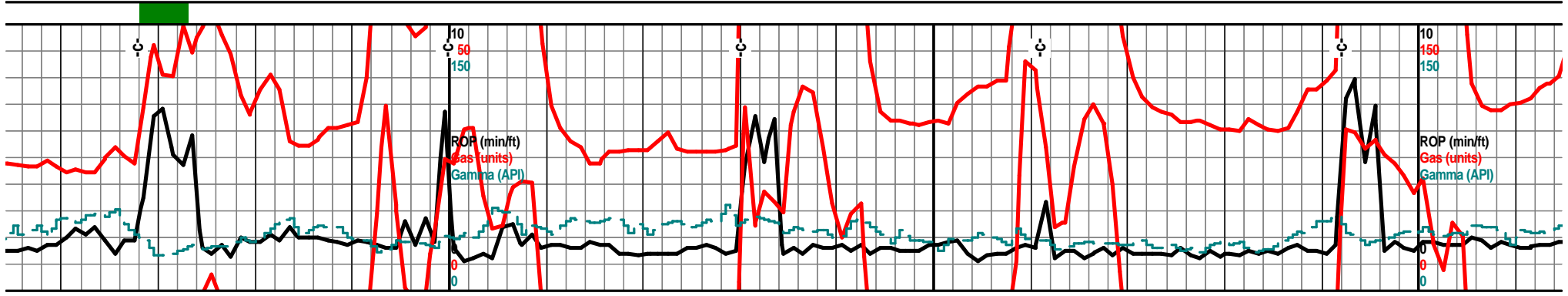
8980	9000	9020	9040	9060	9080	9100	9120
	4640 TVD					4640 TVD	
<p>chrt off wht sli weath gran tan brn stain, nodor, opaq sub transl, with text edges/sides, pp scatt UV nodor</p>		<p>chrt lt gry, smokey gry shrp frsh opa, sub transl, some transp, shrp blk ang shard, chrt lt gry smokey shrp frsh opa with tan lt brn brn sli weath gran crumbly edges, pp moldic por, tan lt brn stain, nodor, NSFO, tr scatt UV</p>			<p>chrt off wht lt gry lt smokey gry, shrp frsh opa, sub transl, tr transp in prt, blk ang shrds, chrt same with sli weath text, gran crumbly text, pp moldic por, tan lt brn stained edges/sides, nodor, dull scatt UV</p>		
	<p>4696' 91.0 deg @ 179.4 az</p>		<p>4695' 90.9 deg @ 179.9 az</p>		<p>4695' 90.7 deg @ 179.4 az</p>	<p>4695' 90.9 deg @ 179.2 az</p>	<p>4694' 90.8 deg @ 179.9 az</p>
	4690					4690	
	<p>chrt off wht lt gry smokey shrp frsh opa sub transl with tan brn crm sli weath gran crumbly text edges/sides, pp moldic por tan brn stain, dull scatt UV, tr lsd/dolo wht off with tan f v f xin blk ang gran pcs, tr glau, acid=fizz</p>			<p>chrt lt gry smokey, shrp frsh opa, sub transl, w/ tan lt brn sli weath text, gran crumbly text, pp moldic por, tan brn stained edges, weath sides, nodor, NSFO, dull scatt UV</p>			<p>chrt off wht lt gry lt smokey gry, shrp frsh of sub transl, some transp in prt, with sli weath gran, crumbly text edges/sides, pp moldic p dull scatt UV, tr lsd dolo off wht, crm f v f xin lt sub chlky soft gran tr glau</p>
	4740					4740	



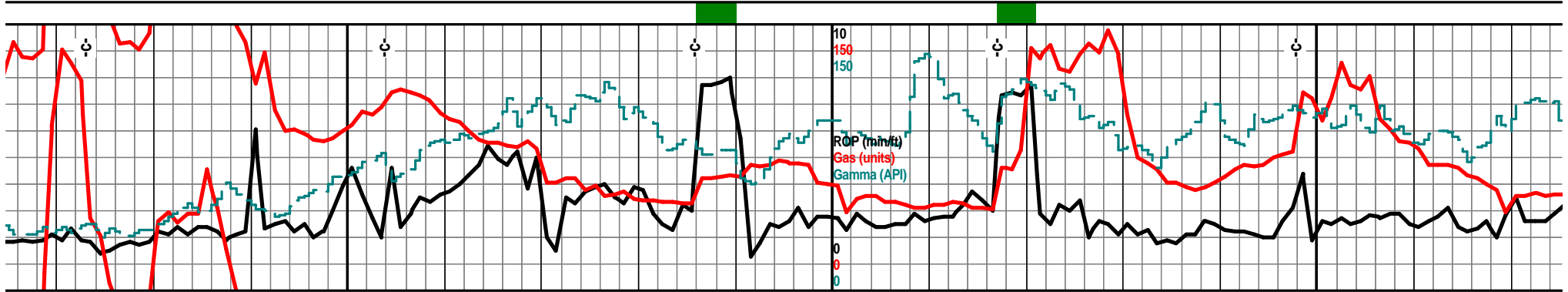
9140	9160	9180	9200	9220	9240	9260	9280
6 am 9155' May 21, 2013			Mud-Co. 9198' wt. 8.5 vis. 28 wl. NC chl. 800		4640 TVD		
chrt incr frsh, clr off wht lt gry, smokey gry in prt, shrp frsh opaq, sub transl, transp in prt, blk ang shrp shrds, tan drk brn stained, NVP			chrt lt gry, lt smokey gry, shrp frsh opaq, sub transl, mstly transp, shrp ang blk shrds, spl90% frsh chrt, with some chrt aa with tan drk brn stain edges, poss frac por, tr weath gran edge text (rare), scatt UV nodor NSFO		chrt drk tan drk brn shrp frsh opaq, sub transl, transp in prt, shrp blk ang shrds, with tr weath gran sli trip text, tr pp moldic, frac por, drk tan brn stain, chrt lt gry to clr shrp frsh semi opaq, mstly transp, shrp frsh shrds		
4694' 90.6 deg @ 179.2 az			4693' 90.9 deg @ 179.8 az		4693' 90.1 deg @ 179.9 az		4694' 89.2 deg @ 180.7 az
chrt clr, lt gry, lt smokey gry, shrp frsh opaq, sub transl, mstly transp, mstly clr transp, blk ang shrp shrds, tr with tan drk brn stain, mostly NS			chrt drk tan brn shrp frsh. opaq, sub trans, transp in prt, shrp blk ang shrds, with tr weath gran edge (rare), drk tan to drk brn stained color, chrt lt gry to clr, shrp frsh semi opaq, transp in most, blk ang shrp shrds NS, no stain.		chrt vry trans, sh stain, ch vry sli w NSFO, s		
jaq, i, ior, ilky			4740				



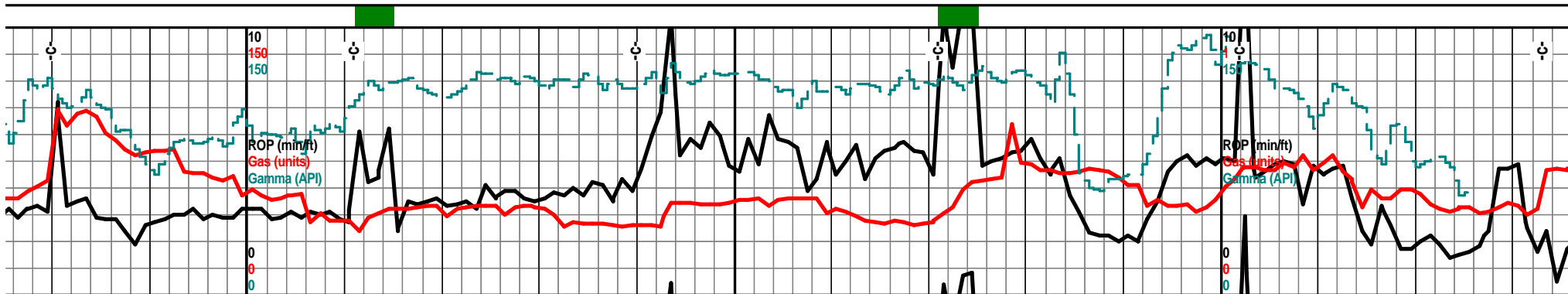
9300	9320	9340	9360	9380	9400	9420	9440
4640 TVD					4640 TVD		
	chrt vry lt gry/clr shrp frsh semi opa, mstly transp, shrp blk ang shrds, NS, chrt vry lt gry with drk tan/brn stained edges/sdies, shrp frsh opa, semi transp, msty vry drk brn stained frsh chrt			chrt v/lt gry to clr, frsh shrp semi opa to transp, shrp blk ang shrds, chrt lt gry with drk tan, brn in color, shrp frsh opa, sub transp, shrp blk shrds, drk tan brn stained			*** Live Show! ** chrt off wht lt gry some cl trans, tr transp, shrp blk trn drk brn stained sli we moldic por, sli odor, hvy RBSFO, tr gas bubs
4694' 89.4 deg @ 180.7 az	4694' 90.1 deg @ 180.5 az	4694' 89.7 deg @ 180.3 az	4694' 89.6 deg @ 180.1 az	4695' 89.7 deg @ 179.8 az	4695' 89.9 deg @ 180.1 az		
4690				4690			
lt gry, clr, shrp frsh semi opa, mstly rp ang shrds with drk tan some drk brn rt aa mostly drk tan drk brn color, tr with eath text edge, drk brn stain, nodor, catt dull UV		chrt vry lt gry to clr, shrp frsh sub opa to transp, shrp blk ang shrds, mstly transp, chrt lt gry clr opa aa with drk tan to brn stained edges sides, shrp frsh,		chrt lt gry clr frsh frsh semi opa, shrp shrds, transp in most, chrt lt gry tan to drk brn, frsh shrp with tr weath gran edges, pp moldic por, drk tan brn stained, scatt dull UV, tr vhy blk grsy stain			
4740				4740			



9460	9480	9500	9520	9540	9560	9580	9600
		4640 TVD					4640 TVD
** lr, shrp frsh opa, sub / ang shrds, with some ath/gran edges/sides, pp grsy stain, tr filmy		chrt vry lt gry, clr, shrp frsh opa, transp, semi opa, shrp ang shrds, chrt vry lt gry with v sli weath gran text edges, mostly frsh, tan drk tan brn stain, mstly clr transp frsh chrt		chrt lt smokey gry, clr, shrp frsh semi opa, transp, msly transp, shrp frsh blk ang shrds, chrt lt gry smokey gry with drk tan, brn edges, tr weath gran text, pp moldic por, drk tan brn stain, nodor, tr hvy blk stain, scatt dull UV, incr wht off wht lst/dolo f vf xln soft gran sub chlky, tan brn stain			
		4695' 89.6 deg @ 180.7 az	4695' 89.6 deg # 180.7 az	4696' 88.9 deg @ 180.5 az	4696' 89.1 deg @ 180.1 az	4696' 89.8 deg @ 180.1 az	
		4690		4690		4690	
chrt off wht, vry lt gry tint, shrp frsh semi opa, mstly transp, shrp ang shrds, chrt aa with tan drk brn edges, tr sli weath gran text edges/sides, pp moldic por, tan to drk stain, scatt dull UV, dead hvy grsy staid., odor?,		chrt, clr, vry lt smokey gry, shrp frsh semi opa, semi transp, mstly transp, blk ang shrds with drk tan brn tinted edges, tr sli weath/gran edge text, pp moldic por, drk tan drk brn stain, tr blk hvy grsy SFO		chrt lt gry, lt smokey gry shrp frsh opa, tran some transp, blk ang shrds, w/drck tan brn stained edges/sides, tr sli weath edge text, dc crm tan with gry/tan/brn mott frsh chrt edges/inclusions,			
		4740				4740	

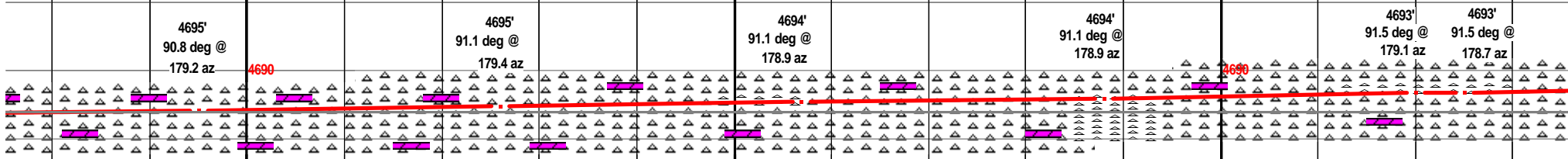


9620	9640	9660	9680	9700	9720	9740	9760
6 am 9623' May 22, 2013				4640 TVD			
chrt off wht lt gry, lt smokey gry, shrp frsh semi opaq, some transl, tr transp in prt, w/sli weath gran edge text, pp moldic por in prt, tan drk tan brn stained edges/sides, chrty dolo, tan crm f vf xln dolo with tan brn stained dolo inclu		Bit Trip 9670' Mud-Co. wt. 8.5 vis. 29 wl. NC chl. 700 ppm		dolo lt gry, mstly gry green f vf xln gran glau, some soft mushy, some chrt inclu, chrt vry lt gry to clr, shrp frsh, transp, blk ang shrds		dolo lt gry, lt gry green, pale green, f vf xln gran, gritty, tr soft mushy in prt, tr inter xln por, tr glau, tr stain, chrt tan lt gry clr in prt, shrp frsh opaq, semi transl, transp in prt, tr sli weath gran sli trip edge, tan brn stain, tr hvly blk stain	
	4696' 89.9 deg @ 179.6 az	4697' 89.8 deg @ 179.2 az	4697' 90.3 deg @ 179.6 az	4690	4696' 90.7 deg @ 179.6 az	4696' 91.2 deg @ 179.9 az	
sl, dolo		chrt off wht lt gry, lt smokey gry, shrp frsh semi opaq, some transl, tr transp in prt, w/sli weath gran edge text, pp moldic por in prt, tan drk tan brn stained edges/sides, chrty dolo, tan crm, lt green, tr glau, f vf xln dolo with tan brn stained chrty inclu		dolo gry, gry green, green tinted, f vf xln blk ang pcs, gran text, tr soft mushy, tr glau chrt wht clr shrp frsh opaq to transp		dolo crm off gritty, glau, s stain, chrt lt g transl, some edges, pp mc	
				4740			



9780 9800 9820 9840 9860 9880 9900 9920

								4640 TVD 9902' 7am May 24, 2013		
	dolo wht off wht lt gry/green, f vf xln gran blkly ang pcs, some chrty with wht gran/frsh chrt inclu, glau, tr tan stain, chrt off wht clr, shrp frsh sub opaq, transp in most, tr tan brn sli weath gran text edges, tan brn stained in prt									chrt off wht lt gry, mostly clr, s mostly transp, shrp blkly ang sli weath edge text, vry lt tan blkly ang pcs



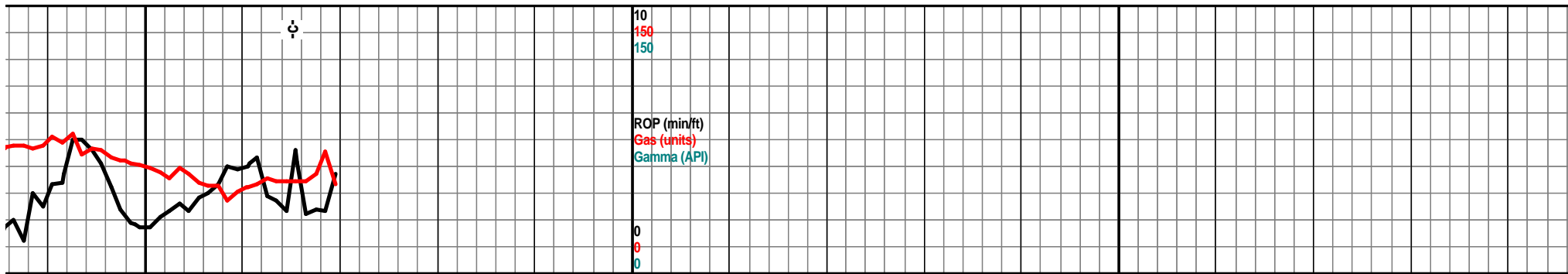
gry, gry green, lt green, f vf xln, gran, some chrt inclu, tr inter xln por, tr brn gry, clr, shrp frsh, semi opaq, semi transp, with sli weath tan brn stained oldic por, tr hvy brn/blk stain

dolo wht off wht, lt gry/green, f vf xln dns hrd blkly pcs, tr glau, chrt wht off wht frsh/gran, blkly ang pcs tr glau, chrt wht off wht clr shrp frsh semi opaq, some transp, some with dolo edge

dolo, chrty dolo, off wht lt crm, lt gry/green, f vf xln gran blkly dns hrd pcs, tr glau in prt, off wht, wht chrt inclu, chrt off wht lt gry, some clr, semi trans, some transp, blkly ang frsh shrp shards.

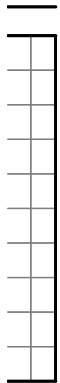
4740

4740



9940 9960 9980 10000 10020 10040 10060 10080

				4640 TVD				
hrp frsh semi opa, hrds, tm lt tan vry rn stain, mstly frsh		chrt off wht lt gry vry lt smokey gry, mstly clr, shrp frsh semi opa, some transp, shrp frsh blk ang shrds, w/tr sli weath gran edge text, tr tan stain, tr hvy blk grsy stain, nodor,		<p>Woolsey Operating Company Michel #2 H 2170' FNL & 620' FWL Apx. NW SE SW NW Sec. 7 Twp 34S-Rge 11W Rhodes South Field Sec. 7 Twp 34S Rge 11W Barber County, Kansas API # 15-007-24014-01-00</p>				
		<p>4691' 91.5 deg @ 178.7 az</p> <p>Projected to 9970'</p>						
chrt off wht lt gry vry lt smokey gry, mstly clr, shrp frsh opa, semi transl, some transp, shrp frsh blk ang shrds, w/tr sli weath gran edge text, tr tan brn stain, nodor, NSFO, no gas, scatt UV				4690				
				4740				



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