



# eog resources

600 Seventeenth Street  
Suite 1000N  
Denver, CO 80202  
(303) 572-9000

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

Well Name: Garden Creek 02-06H  
Location: Hereford Ranch Prospect - SE/SE Sec 6 T11N R62W Weld County, Colorado  
License Number: API: 05-123-31264  
Spud Date: February 26, 2011  
Surface Coordinates: 600' FSL, 595' FEL SE/SE Section 6 T11N R62W  
Latitude 40°56'48.59" N Longitude 104°21' 19.31" W (NAD27)  
Bottom Hole Coordinates: ~ 4300' FSL & 2127' FEL NW/NE Section 6 T11N R62W  
Ground Elevation (ft): 5303' K.B. Elevation (ft): 5324'  
Logged Interval (ft): 6867' To: TD Total Depth (ft): 11190' MD, 7519.19' TVD  
Formation: Target: Niobrara 'M2'  
Type of Drilling Fluid: Water  
Printed by WellSight Log Manager from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: EOG Resources, Inc.  
Address: 600 Seventeenth Street, Suite 1000N  
Denver, Colorado, 80202  
Company Geologist: John Melby

## GEOLOGIST

Name: Mike Dodge, Robert Nordeck  
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)  
Address: 575 Union Blvd., Suite 208  
Lakewood CO. 80228

## E-Logs

MWD GR from Surface Casing to TD.

## Casing

9 5/8" 36# J55 STC set @ 1402'.  
7" 23# HC-P110 LTC set @ 7658'.  
4.5" 11.6# P110 LTC Liner to TD.

## Comments

\* A 13½" Hole was previously drilled to 1402', and 9 5/8" S.C. was Preset at that point. This well was Drilled Vertically to KOP of 6867', at which point angle was built to 91° by 7661' MD (7397.4' TVD). 7" Casing was set and the well was then Drilled Horizontally to a TD of 11,190' MD, 7415.19' TVD. This Horizontal Strip Log covers the Interval from KOP (6867') to TD. A Vertical Strip Log was made covering the interval from S.C. to 7" Intermediate Casing Point.

1) Drilling Contractor: SST Energy Corp. - Rig #56

Tool Pusher: David Holgate  
Pumps: #1 & #2: BOMCO 6.0" x 12" (.0997 bbl/stk)

2) Company Men: Mike Woolsey, Johnny Turner.

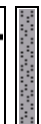
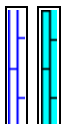
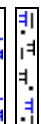
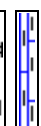

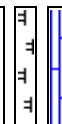









3) Directional Services / MWD GR: Phoenix Technology Energy Services:  
Directional: Darin Difeo, Jed Warner.  
MWD: John Raia, Ross Lund.

4) Mud Company: Quest Drilling Fluids  
Mud Engineer: Kent Denney, Butch Gilliland, Steve Smith.






































































5) Under Balanced/Auto Choke Drilling System from 7" Casing Point to TD: Weatherford.

6) Gas Detection Equipment: Mudlogging Systems Inc.  
by Terra Services  
Redbox TGC #ML-304 (Total Gas/Chromatograph).

## ROCK TYPES

	Siltst		Lmst		Arg chky mlrst		Arg chalk
	Carb sh		Chalk		Marly chalk		Arg mlrst
	Bent		Mrlst		Niobrata chalk		Arg ss
	Coal		Shale		Sltly sh		

## ACCESSORIES

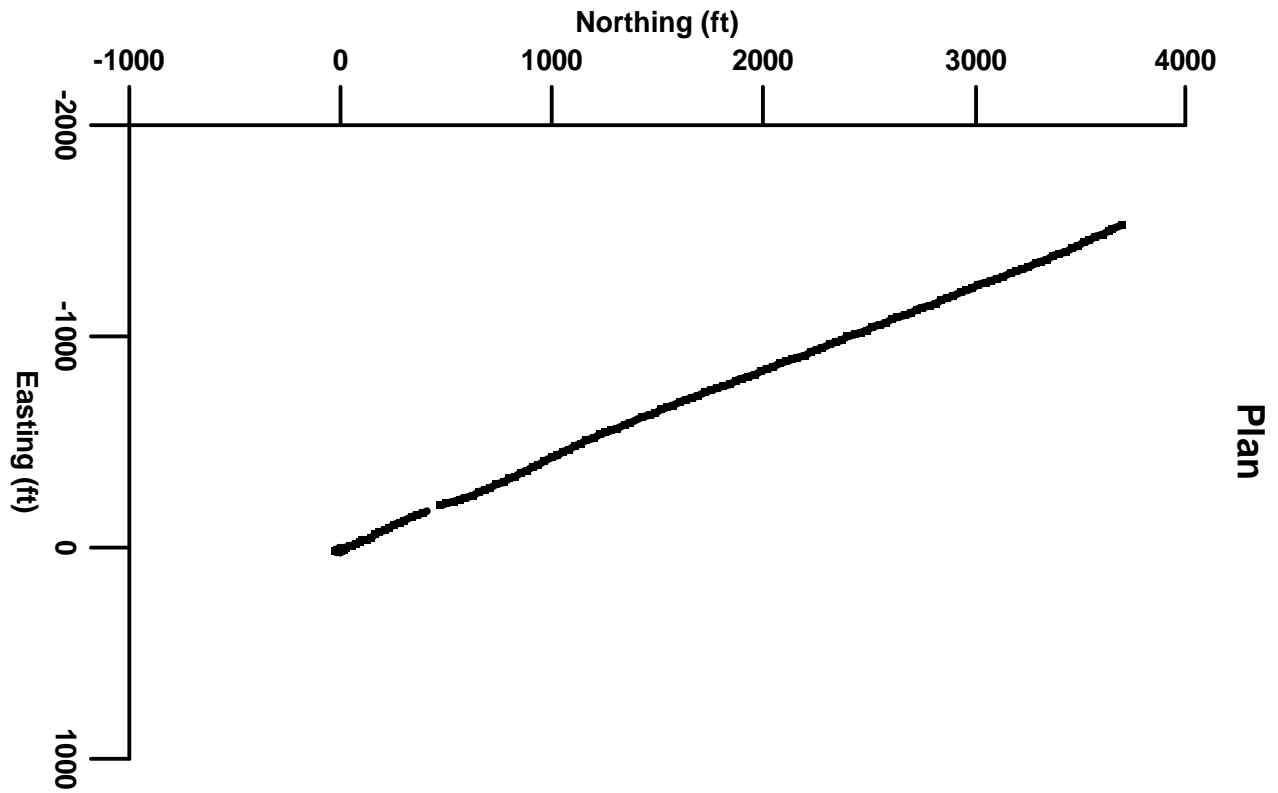
	MINERAL		Minxl		Foram		Chky mlrst strgs
	Anhy		Nodule		Fossil		Ss strg
	Arg		Pyr		Gastro		Slt strg
	Bent		Sandy		Oolite		
	Bit		Silt		Ostra		
	Breccfrag		Sll		Pelec		
	Calc				Pellet		Boundst
	Carb		Fossil		Pisolite		Chalky
	Chtdk		Algae		Plant		Cryxln
	Chtlt		Amph		Strom		Earthy
	Dol		Belm				Finexln
	Feldspar		Bioclist		STRINGER		Grainst
	Ferrpel		Brach		Arg chlk strg		Lithogr
	Ferr		Bryozoa		Chalk strg		Microxln
	Glau		Cephal		Arg		Mudst
	Gyp		Coral		Bent		Packst
	Hvymmin		Crin		Coal		Wackest
	Kaol		Echin		LS		
	Marl		Fish		Mrlst strg		

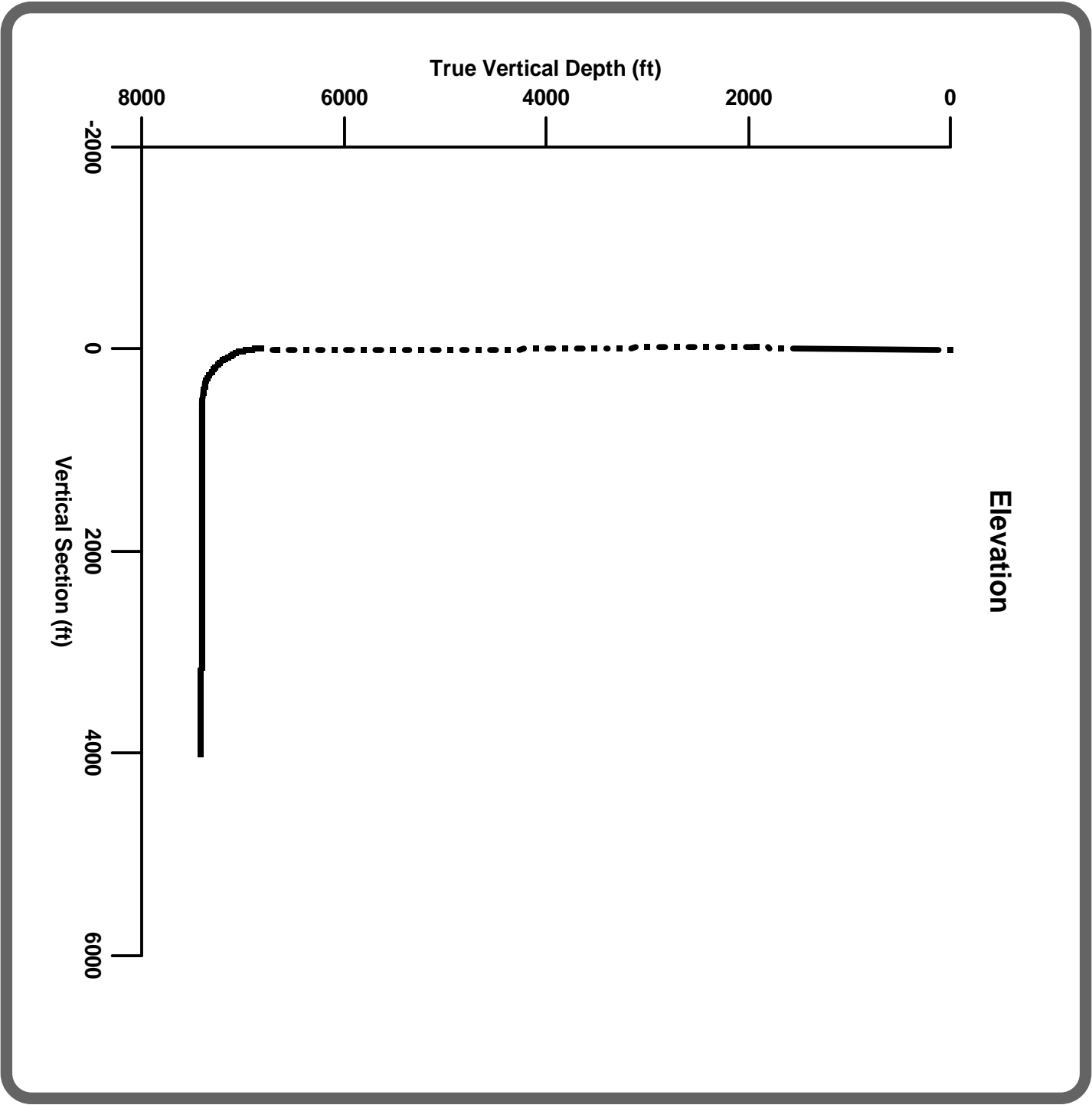
- POROSITY**
- ☐ E Earthy
  - ☐ B Fenest
  - ☐ F Fracture
  - ☐ X Inter
  - ☐ Z Moldic
  - ☐ O Organic
  - ☐ P Pinpoint
  - ☐ V Vuggy

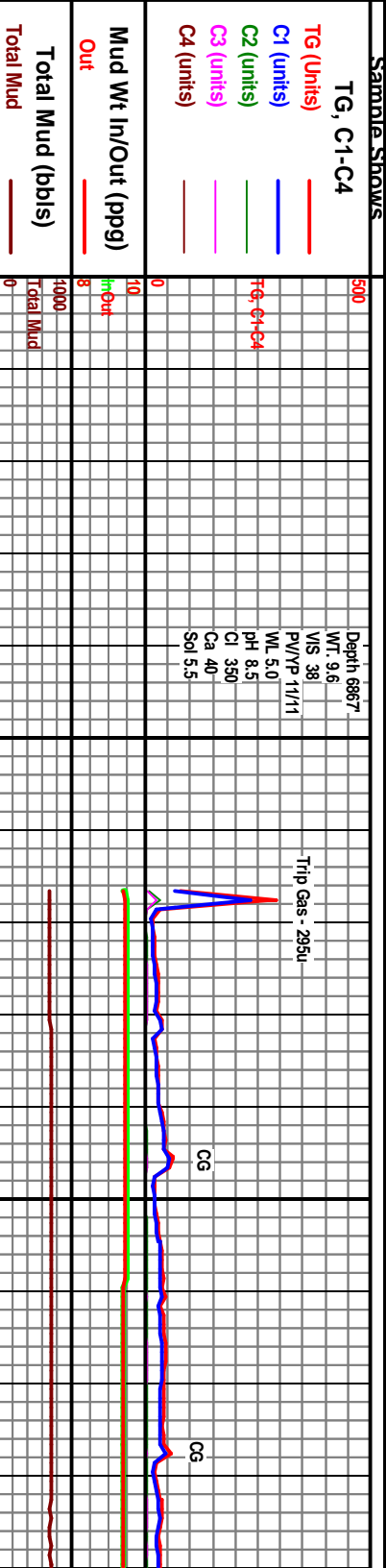
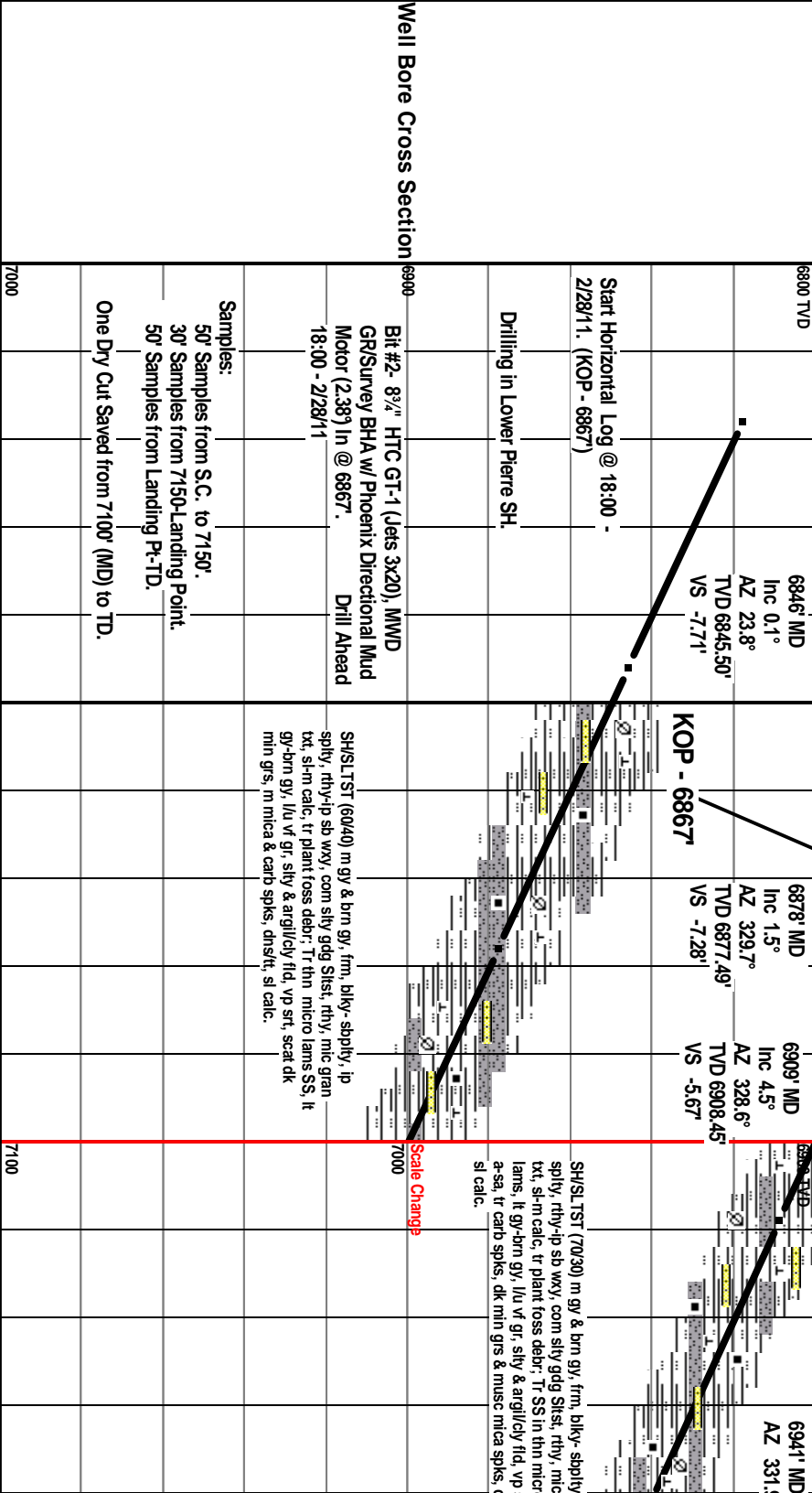
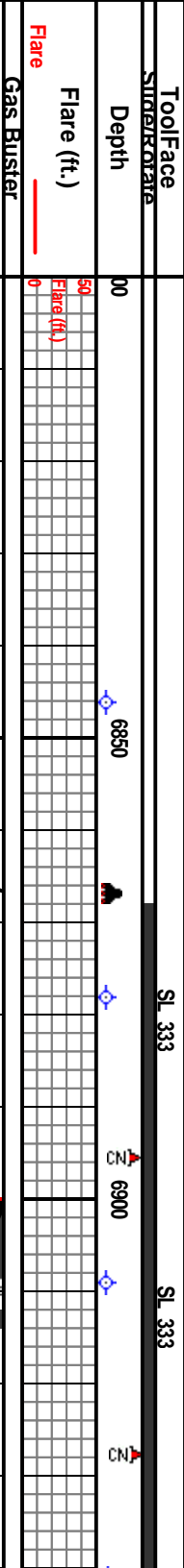
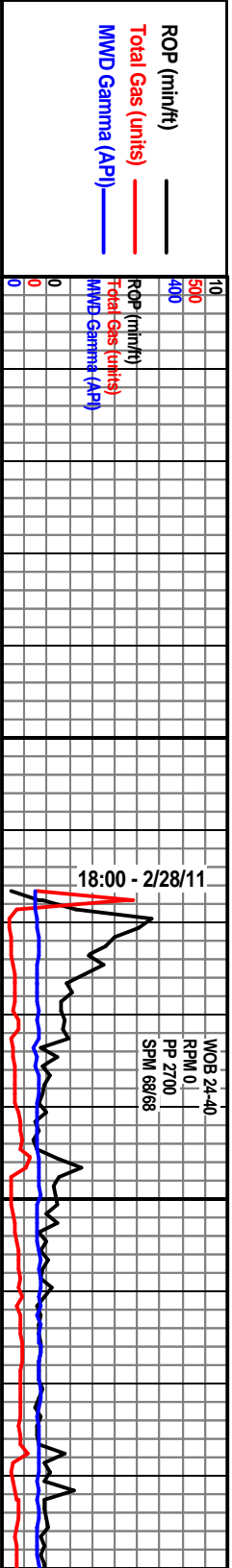
- SORTING**
- ☐ W Well
  - ☐ M Moderate
  - ☐ P Poor
- ROUNDING**
- ☐ R Rounded
  - ☐ L Subbrnd
  - ☐ S Subang
  - ☐ A Angular

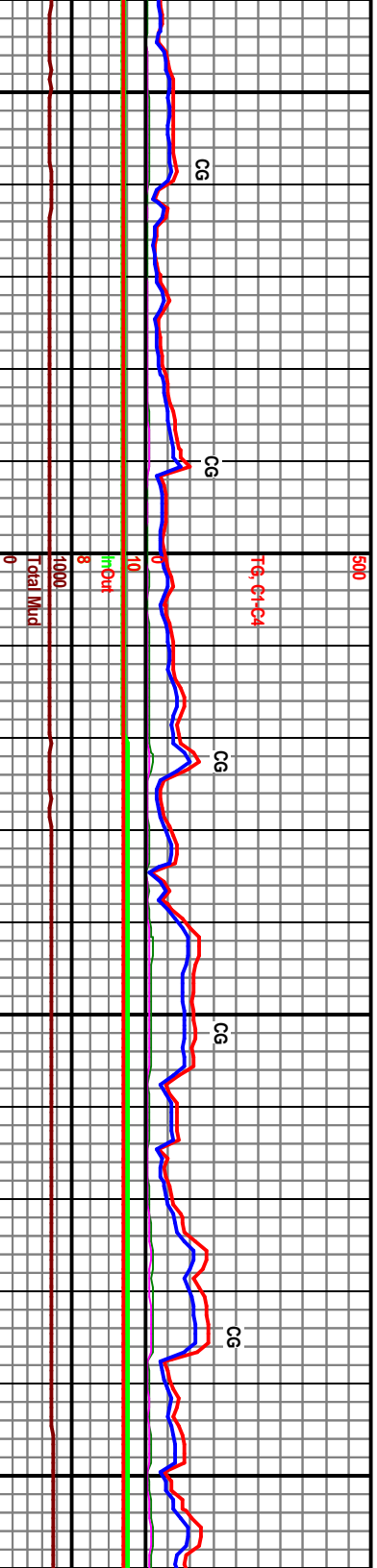
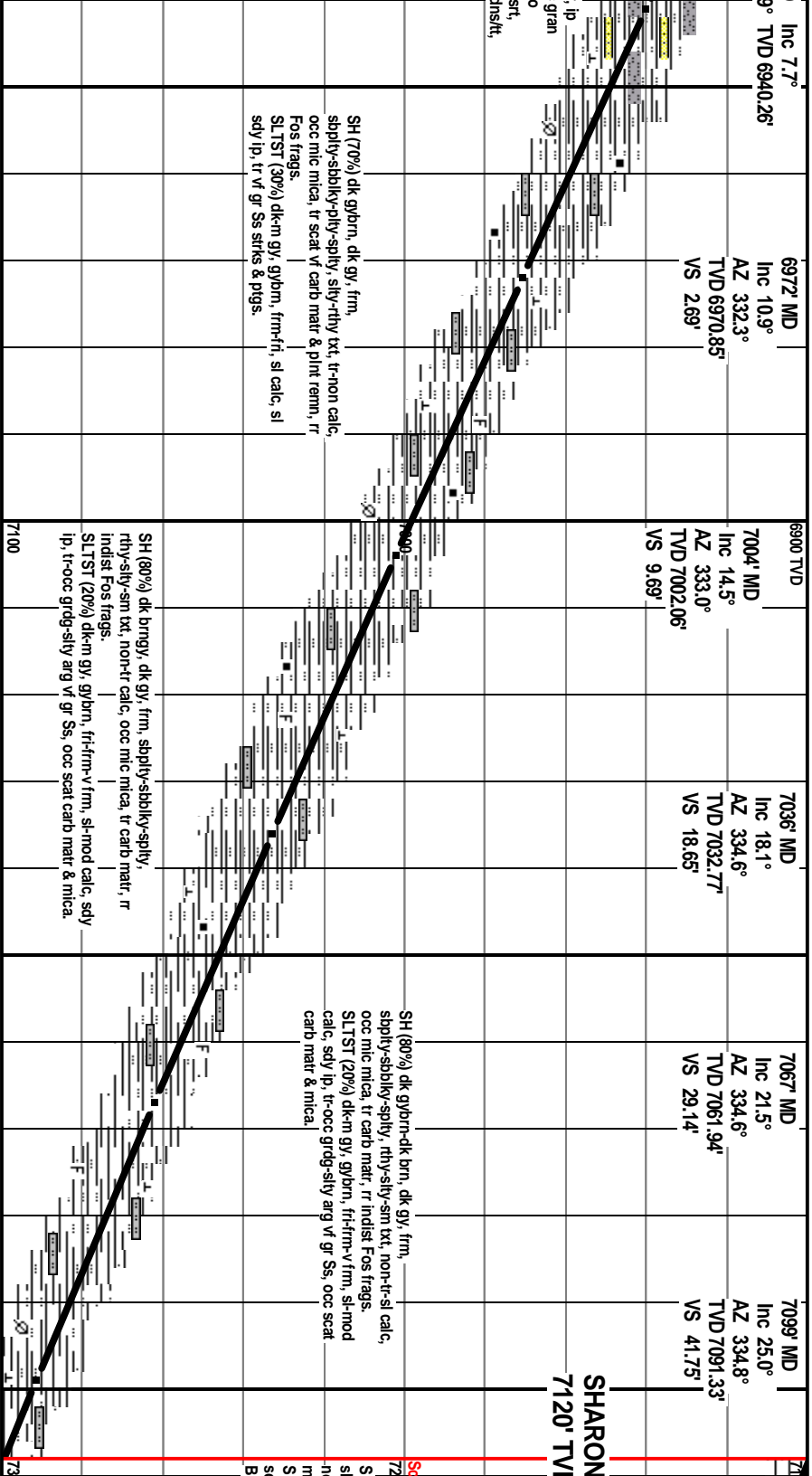
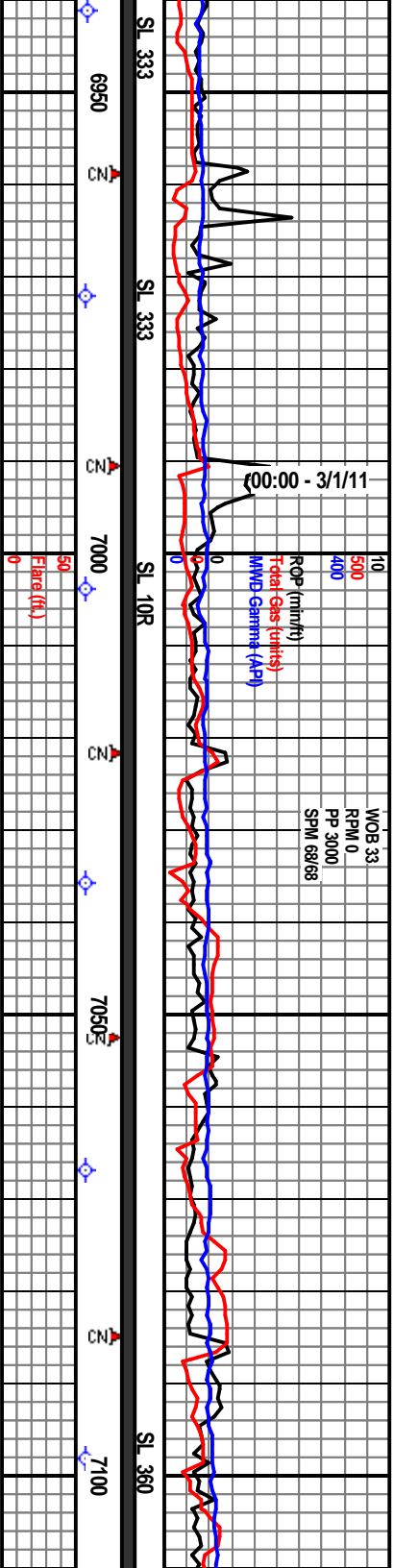
- SAMPLE SHOW**
- ☐ E Even
  - ☐ S Spotty
  - ☐ P Patchy
  - ☐ Q Ques
  - ☐ D Dead
  - ☐ V Very spotty
- INTERVAL**
- ☐ Core

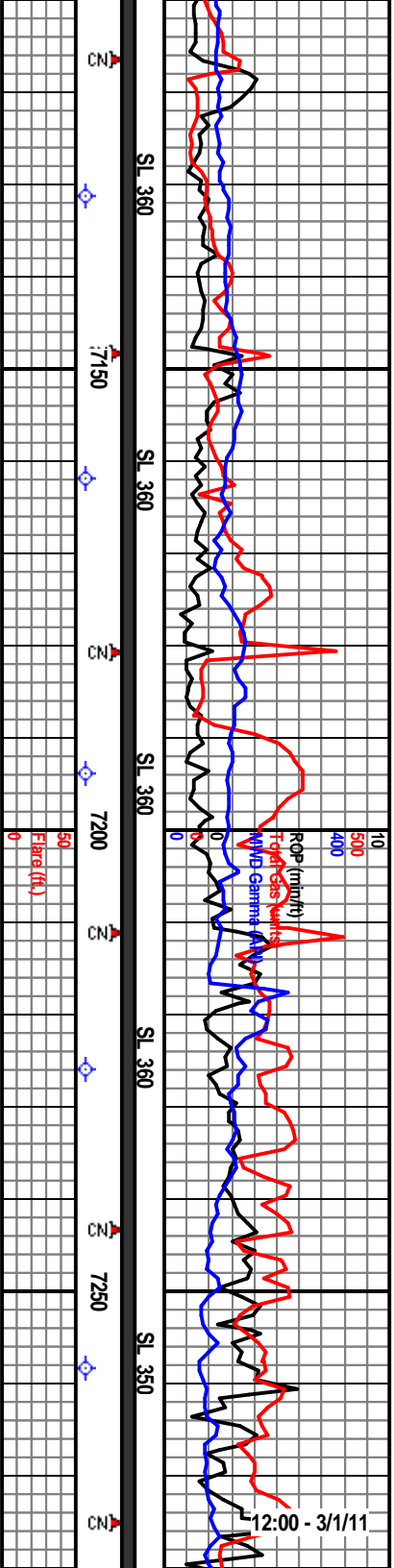
- OTHER SYMBOLS**
- ☐ Dst
- EVENT**
- ☐ Conn
  - ☐ Survey (mwd)
  - ☐ Off bottom
  - ☐ New bit
  - ☐ Casing
  - ☐ Trip point



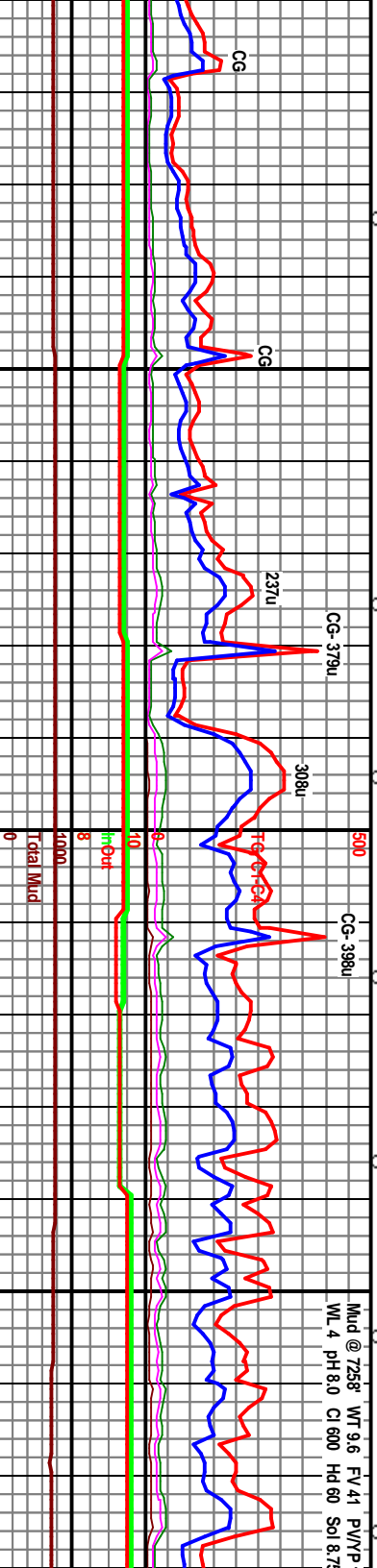




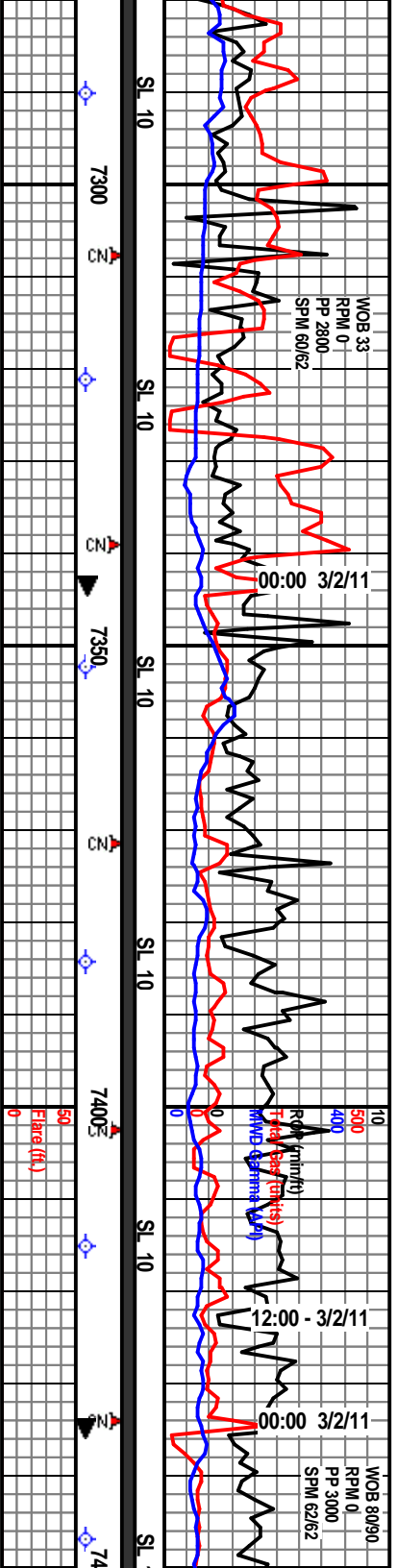




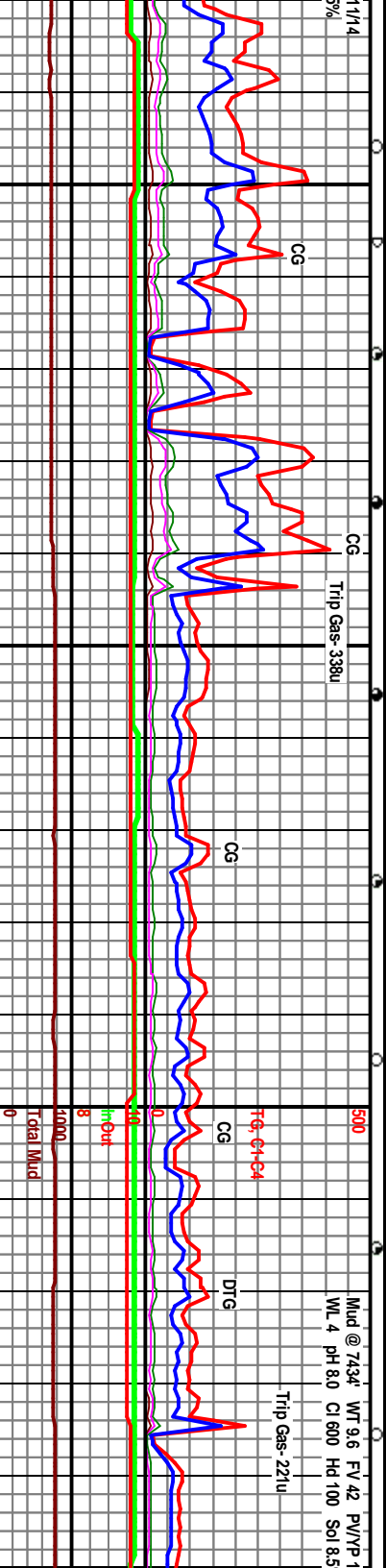
7131' MD AZ 336.2° TVD 7119.90'	7162' MD Inc 32.0° AZ 336.7° TVD 7146.68' VS 71.75'	7194' MD Inc 35.5° AZ 337.6° TVD 7173.28' VS 89.53'	7200' TVD	7226' MD Inc 38.7° AZ 337.2° TVD 7198.80' VS 108.83'	7238' MD Inc 41.5° AZ 335.7° TVD 7223.28' VS 129.43'
SPRINGS- 7131' MD, D (-1796)				NIORARA - 7205' MD, 7182' TVD (-1858' SS)	'B1' Chalk - 7238' MD, 7208' TVD (-1884')
H (70%) dk-brn, dk gy, frm-brt-v frm, shlly-pbly-sbblly-sply, slty-rthy txt, tr sm-sbwy, on-tr calc, mic mica ip, tr-occ scat carb mat & pint remn, tr dsm fly, SLST (30%) brn, m-lt gy, fr-frm, sl-mod calc, sl gy ip, tr carb mat & mic pint remn. BENT (17) tan crn lgy, sbwy.	SH (85%) dk-v dkgy, dk brngy, frm-brt, shlly-sbblly-sply, rthy-sl slty-sbwy txt, pred non calc, scat carb mat, occ pint remn, NSOF, wk mlky-v slow string yel cuts, wk-mod yel read ring. SLST (100%). BENT (5%) cm tan lgy, sft-sl frm, sbwy-rthy-gmly- shchky, tr mic mica.	SH (>95%) v dk-dk gy, gy-brn, frm-brt-sft, shlly-sbblly-sply, fly ip, rthy-sbwy, calc-v calc, manly grdg-Mist ip, scat carb mat/pint remn, no vis sn or flr, p-r mlky & slow string yel cuts, mod-brt yel read ring. BENT (<5%).		SH (50%) dk-v dkgy, blk, frm- brt-v frm, shlly-sbblly-sply, tr fly, rthy, mod-v calc, matly ip, scat carb mat, tr carb pths, no vis sn or flr, p-r mlky & slow string yel cuts, mod-brt yel read ring. MRLST (50%) gy-brn brn m-dk-lgy, mott ip, fr-sft-frm, rthy-gmly, shchky ip, occ scat carb mat, no vis sn or flr, p mlky & slow string yel cuts, mod-brt yel read ring. BENT (17) lt-mgy, sbwy, ply, tr mica, brt yel mnrl flr.	CHLK (70%) m-dk brn gy, ip mltid lfr brn, m sft, crmbly, loc whinc gran txt, rthy-tr sb wxy, hi arg cont; Tr ? dl vl flr v wk slw mlky cut & v wk dl vl read ring flr. MRLST (30%) v dk gy, frm, blkly, pred sb wxy, tr mic gran txt, loc sl Chlky, v shly gdg mry Sh, NSFOC. Tr Bent w/brt vl mnrl flr.
					'B' Cha 7250' T



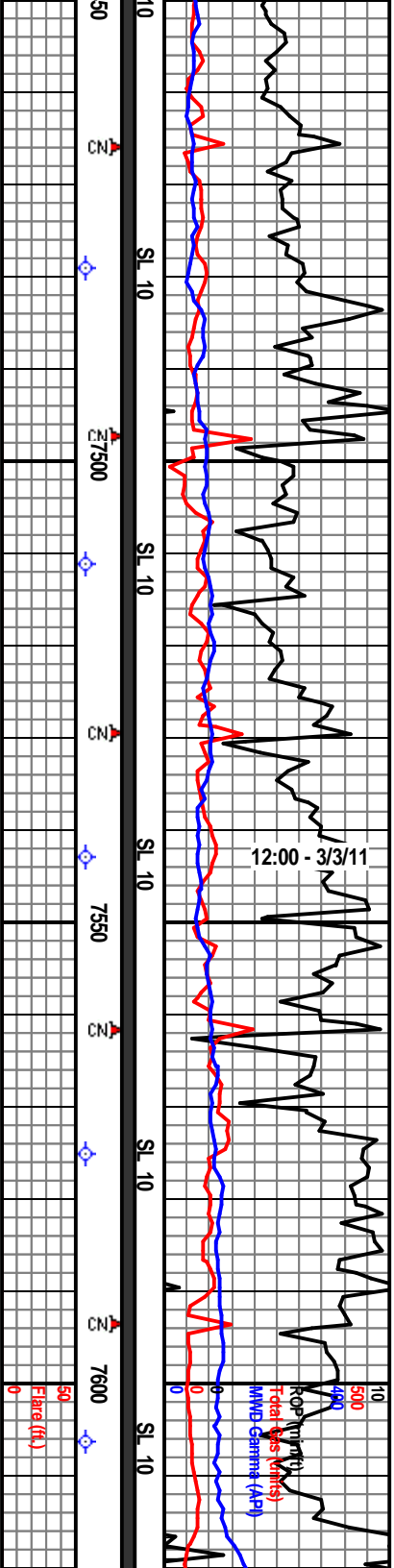




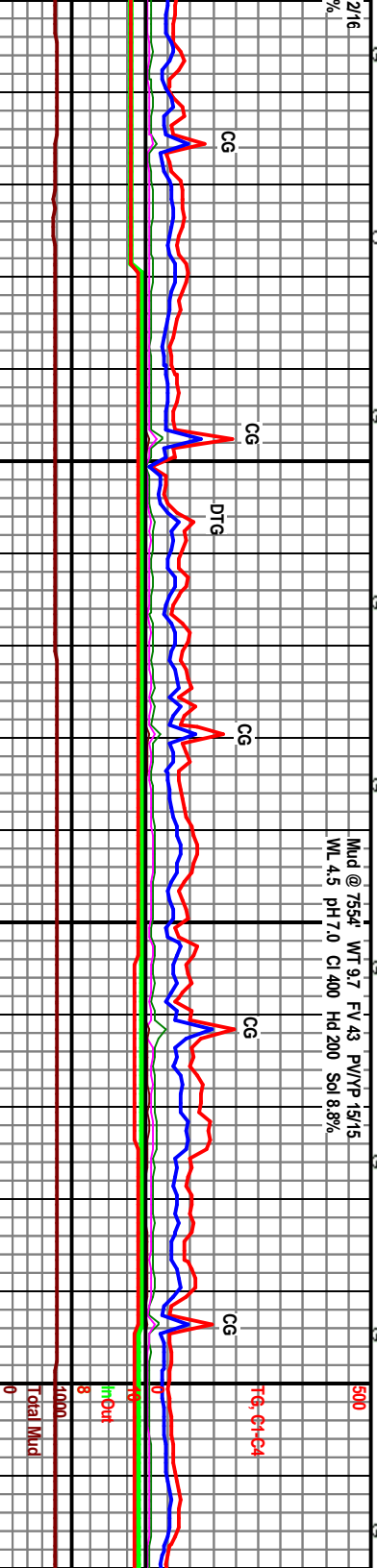
7290' MD Inc 44.0° AZ 334.0° TVD 7246.77' VS 151.92'	7321' MD Inc 47.1° AZ 331.6° TVD 7268.48' VS 173.17'	7352' MD Inc 50.0° AZ 332.2° TVD 7289.00' VS 196.26'	7380' MD Inc 53.1° AZ 332.8° TVD 7308.90' VS 221.24'	7415' MD Inc 56.1° AZ 333.1° TVD 7326.84' VS 246.42'	7447' MD Inc 60.4° AZ 333° TVD 7344° VS 273.3°
Inc 44.0° AZ 334.0° TVD 7246.77' VS 151.92'	Inc 47.1° AZ 331.6° TVD 7268.48' VS 173.17'	Inc 50.0° AZ 332.2° TVD 7289.00' VS 196.26'	Inc 53.1° AZ 332.8° TVD 7308.90' VS 221.24'	Inc 56.1° AZ 333.1° TVD 7326.84' VS 246.42'	Inc 60.4° AZ 333° TVD 7344° VS 273.3°
TOH for New Dir BHA @ 7343'. ReRun Bit #2 w/ New Mud Motor (2.389' & MWD Gamma Directional BHA.	TOH for New Dir BHA @ 7343'. ReRun Bit #2 w/ New Mud Motor (2.389' & MWD Gamma Directional BHA.		'M3' Marker - 7380' MD, 7306' TVD (- 1982 SS)	TOH for New Dir BHA @ 7434'. ReRun Bit #2 w/ New Mud Motor (2.77' & MWD Gamma Directional BHA.	'M2B' Marker- 7339' TVD (-20
9) m-dk gy brn, ip mtld s & micro lams, m sft, c white gran txt, rthy, hi tr 2 sply dl yf flr, v pr v cut & v wk dl yf resid	CHK (90%) lt-m gy brn, mtld w/lt brn spks & micro lams, str-n frm, rthy, ip v cmbly, mod hi argshly cont, tr sply dl yf flr, tr blk od oil stn, vp slw milky cut, wk yf resid ring floor. MRLST/SH (10%) v dk gy, frm, blk, pried sb wxy, tr mic gran Chlky, v shly gdg mly - NSFOC.	CHK (70%) lt-m gybrn, lt-m gy, moit, frm-sft, rthy-gny-slowxy, sl-mod arg, marly ip / occ Sh & Mrlst pldgs, fnt petro odor, occ patchy brn o stn, fnt sply yel flr, fast-slow string yel cut, brt yel read ring. MRLST/SH (30%).	MRLST (50%) dk gybrn, dkbrn, v dkgy, frm-brt-hd, blkly-sply, slowxy-rthy, occ Sh pldgs, carb ip, no vis stn or flr, slow-fast string yel cut, brt yel read ring. CHK (40%) gen as before, soft-fri ip, gny-mic sucir ip, mod-sl arg. Show as before. SH (10%) vdkgy, blk, frm-brt, sply-sply-pty, calc, carb, marly ip.	MRLST (75%) v dk gy, frm-m hd, blkly-sply, ip sply, sb wxy, tr mic xln-mic gran txt & chlky, v hi arg cont, ip grdy- mly SH, NSOF, slow-fast string yel cuts, mod yel read ring. CHK (25%) m-dk gy brn, m frm, blkly, rthy, tr micro lam, occ amorp wh calc spks & inclusions, hi arg before. SH (20%) dkgy, blk, frm-brt, pty-sply, carb ip, marly ip, sl-mod calc.	MRLST (60%) dk-v dkgy, dk gybrn, brt-frm, blkly-sply-sply, slowxy-rthy, shchly ip, mod-v arg, occ Sh pldgs, tr-occ carb matf, NSOF, slow-fast string yel cuts, mod-brt read ring. CHK (20%) m-tyg, gybrn, brn, str-frt-sl frm, blkly, gny-mic sucir-sucir txt, mod arg, Show as before. SH (20%) dkgy, blk, frm-brt, pty-sply, carb ip, marly ip, sl-mod calc.
alk - 7294' MD, VD (-1926)		'B' Marl - 7352' MD, 7289' TVD (- 1965')	Scale Change 7400		

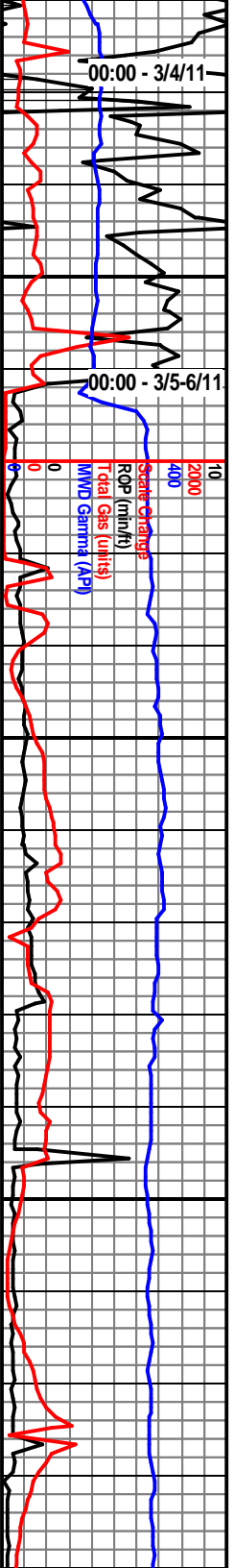






	7479' MD Inc 64.4° AZ 334.5° TVD 7358.51' VS 301.85'	7511' MD Inc 69.1° AZ 335.7° TVD 7371.14' VS 331.21'	7543' MD Inc 73.4° AZ 337.1° TVD 7381.42' VS 361.50'	7575' MD Inc 78.0° AZ 338.5° TVD 7389.32' VS 392.50'	7300' TVD 7606' MD Inc 82.9° AZ 339.7° TVD 7394.47' VS 423.05'
7438' MD, (15)		M2A' Marker- 7534' MD, 7378' TVD (-2054')			
MRLST (60%) dk-v dkgy, dk brn, bric-frn-v frm, blk-y-sply, rthy-sbwwy, tr SH/St strgs, tr-occ carb mat, NSOF, slow string yel cut, mod read ring. CHK (40%) mgy, brn, st-frt, blk-y, gmy-rthy, mod-sl ang, tr carb mat, NSOF, slow string yel cut, mod-brt yel read ring.	MRLST (50%) dk-v dk-m gy, gybrn, brn, mot ip, st-frt-frm, rthy-sbwwy-ckly tx, occ dkgy Sh pds, occ carb mat, NSOF, slow-fast string cuts, mod-brt yel read ring. CHK (40%) m-dk gy, brn, st-frt, rthy-gmy, mod-sl ang, scat carb mat, meaty ip, NSOF, slow-fast string yel cuts, mod-brt yel read ring. SH (10%) dkgy blk, brt, pthy-sply, rthy-sm tx, v calc ip, carb ip.	MRLST (80%) v dk gy & dk gybrn, frm, sb pthy, sb wxy-ip rthy, ip mxin tx, v argil, sm Sh lams, ip sl ckly, No flr, tr mky-slw string cut & dl yel read ring flr. CHK (20%) m-dk gy, brn, gen m frm, ip st & crmbly, rthy, tr w mtld tr spks & micro lams, hi ang cont, tr frt spy dl y flr, fr slw string cut & brt yel read ring flr.	MRLST (60%) v dk gy & dk gy brn, frm, sb pthy, sb wxy-ip rthy, ip mxin tx, v argil, sm Sh lams, ip sl ckly, No flr, tr mky-slw string cut & dl yel read ring flr. CHK (40%) dk brn gy, m frm - ip st & crmbly, rthy, tr w mtld tr brn spks, tr frt micro lams, hi ang cont, frt ? spy dl y flr, fr imed string cut, brt yel read ring flr.	MRLST (80%) v dk gy & dk gy brn, frm, sb pthy, sb wxy-ip rthy, ip mxin tx, v argil, sm Sh lams, tr ckly m lams, No flr, tr mky-slw string cut & dl yel read ring flr. CHK (20%) dk gy brn-brn gy, frm - ip st & crmbly, rthy, tr w mtld tr brn spks & m lams, hi ang cont, tr ? frt spy dl y flr, fr imed string cut, brt yel read ring flr.	MRLST (85%) v dkgy, dk brn, blk, pred st-fr-frm blk-y-sply- sply, rthy-s- tx, sbckly ip, tr carb m micidism Pyr, NSOF, slc cuts, mod-brt yel read ri (15%) pred mod-v ang gy Mst, as before, tr mgy, arg.
				Borehole	34 Pu Ce
					Re
					7500



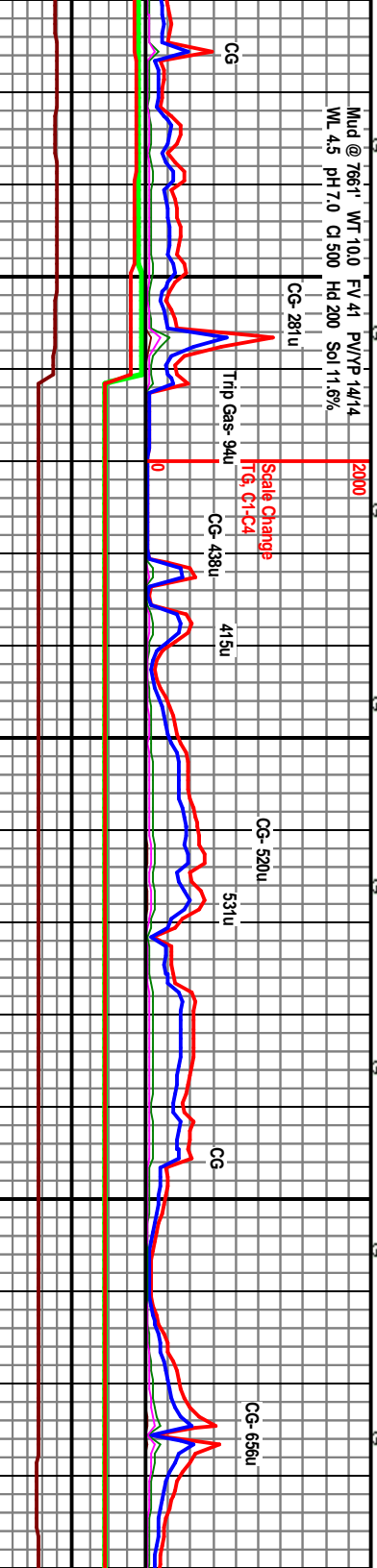


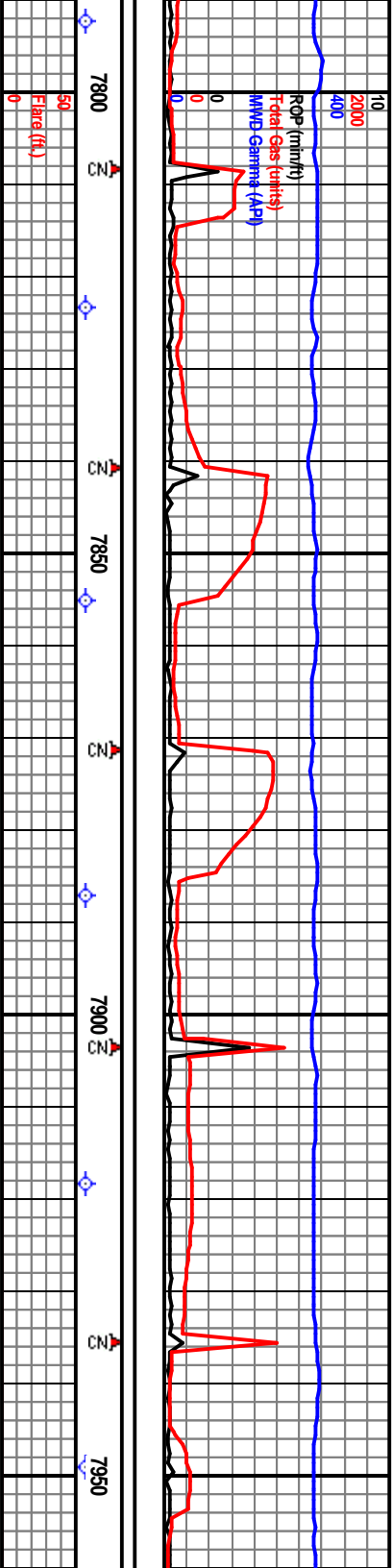
SL 10



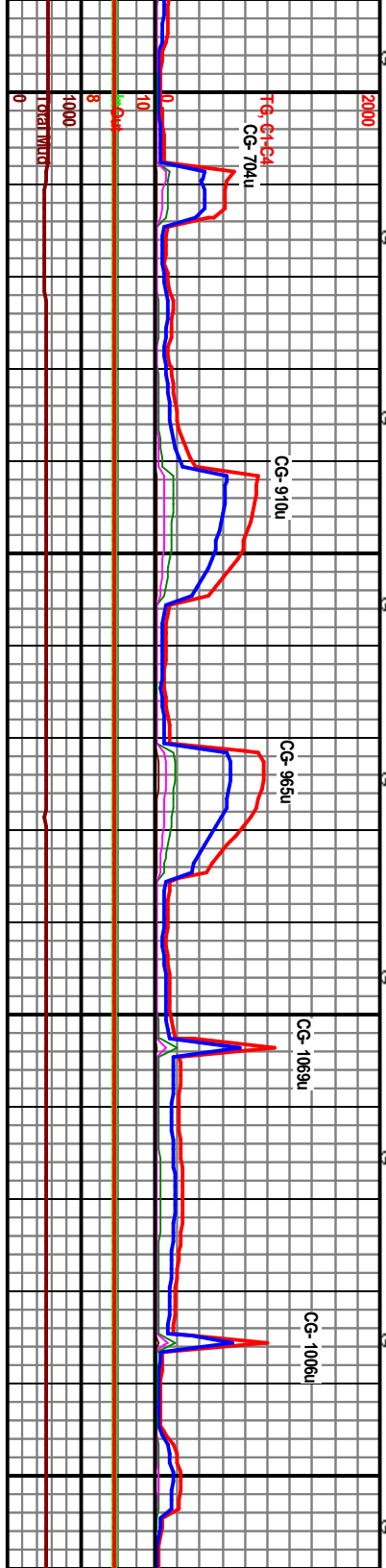
Projected: 7661' MD Inc 91.0° AZ 340.0° TVD 7397.39' VS 440.89'	7697' MD Inc 90.2° AZ 341.1° TVD 7399.94' VS 513.70'	7728' MD Inc 89.5° AZ 340.5° TVD 7400.02' VS 544.65'	7760' MD Inc 90.1° AZ 340.8° TVD 7400.13' VS 576.61'	7792' MD Inc 90.1° AZ 340.8° TVD 7400.13' VS 576.61'
each Landing Pt. of 7661' MD @ 04:30am 1/1. Bit #2 Cut 794' in 60.5 Hrs. Circ & Temp Sweeps, Short Trip, Circ., TOH, Run & Cement 7" Casing @ 7658'.	Bit #3 (6" - SEC FM 35432, jets 5x9) w/ MWD GR/ Survey & Directional Drilling BHA (1.5" Motor) : In @ 7661'. TH w/ 4" DP, Drill Cmt & Shoe. Drill Out @ 04:30 3/6/11.	Waypoint #1: @ 8500' MD (~1300' VS) - Window 7397-7403' TVD.	Start Going thru Rig Gas Buster & Weatherford AutoChoke	Target
gbyrn-dk v frm ip, dkbxy-gmny mat & slow string yel ng. CHK gmy, sl	CEMENT (10%), MRLST (50%) v dk gybrn, v dkgy-blk, frm-brt, spbly-sply-blky, gmy-rthy-sbwxy txt, dkgy Sh pgs, carb ip, NSOF, slow-fast string yel cuts, brt yel resd ring, grdg to: SH (40%) dk gybrn, v dkgy-blk, frm, spbly-sply-pty, pred marly, carb ip, slow string yel cut, mod resd ring.	CEMENT (30%), SH (40%) as before, flky ip, MRLST (30%) abnt Sh pgs, grdg-marly Sh.	MRLST (50%) dk gybrn, v dkgy, frm-brt- stf, spbly-sply-sply, rthy-sbwxy-gmny txt, v arg pgs, grdg-marly carb Sh, NSOF, slow-fast string yel cuts, brt resd ring. SH (40%) blk, v dkgy, f ply-sply-sply, flky ip, rthy-sbwxy, carb, mar ip, slow-fast string yel cuts, mod-brt yel resd r BENT (10%) m gy, sbwxy, tr micas, brt yel marl flor.	

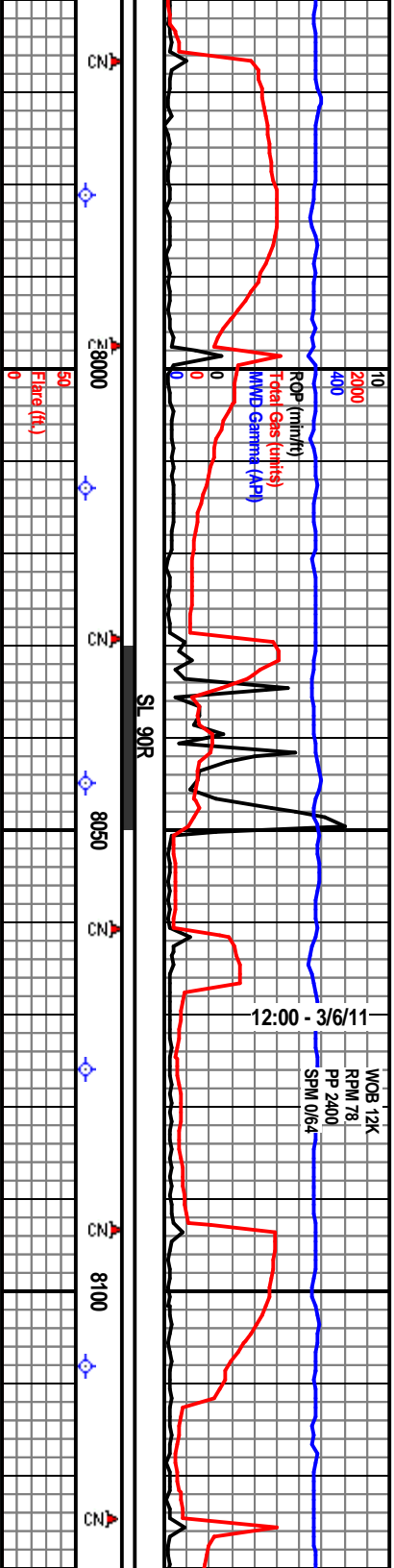
Mud @ 7661' WT 10.0 FV 41 PV/YP 14/14  
WL 4.5 pH 7.0 C 500 Hd 200 Sol 11.6%



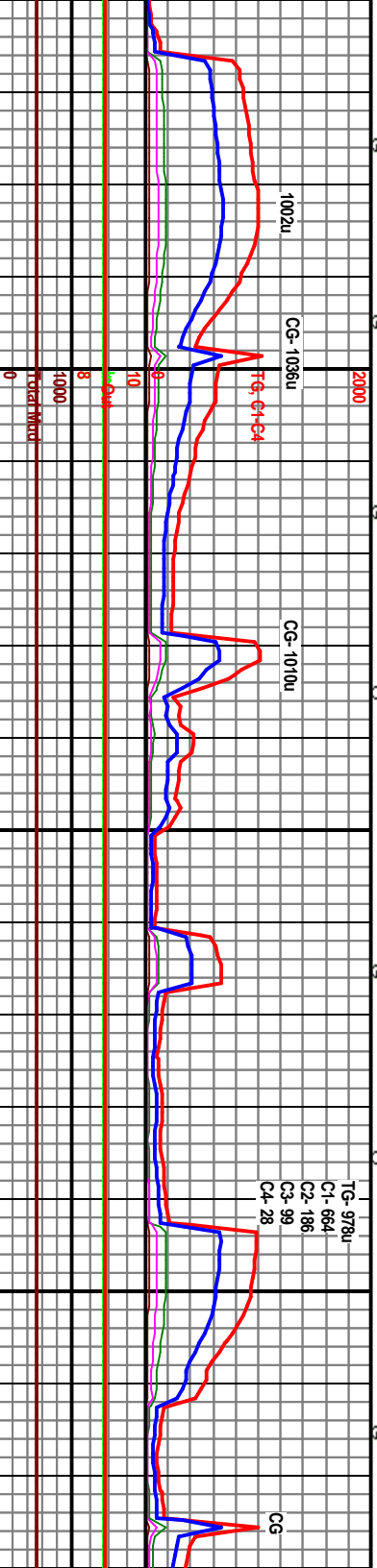


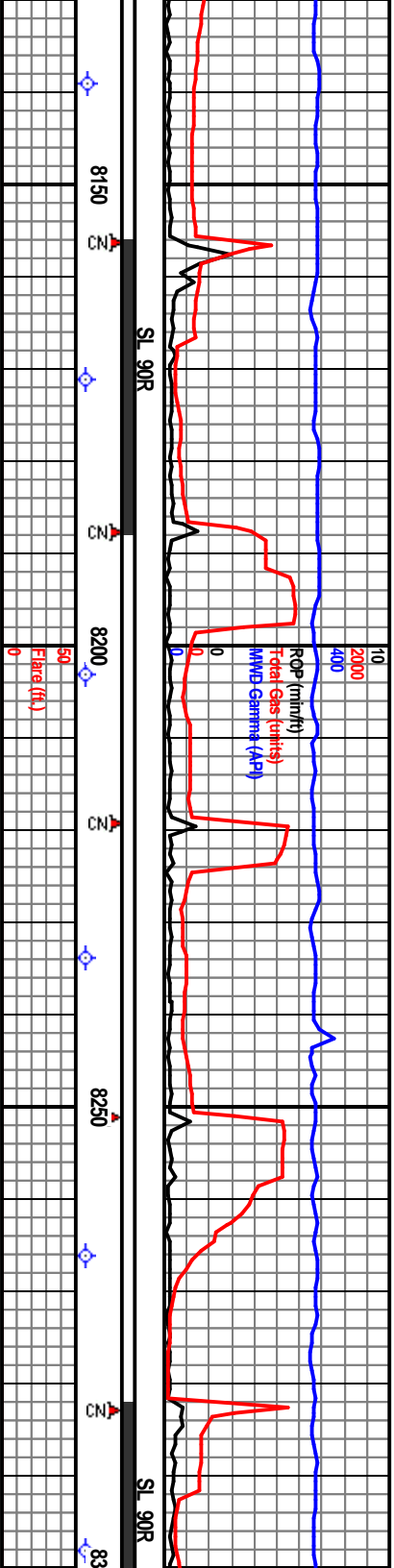
MD	7300 TVD	7823' MD	7855' MD	7887' MD	7918' MD	7949' MD
MD 740.1°	Inc 89.8°	Inc 90.0°	Inc 89.9°	Inc 89.9°	Inc 89.9°	Inc 90.0°
AZ 339.2°	AZ 338.6°	AZ 337.5°	AZ 337.4°	AZ 336.0°		
TVD 7400.10'	TVD 7400.16'	TVD 7400.19'	TVD 7400.24'	TVD 7400.27'		
VS 639.55'	VS 671.54'	VS 703.54'	VS 734.54'	VS 765.53'		
<p>MRLST (65%) v dk gybrn, brit-frm, blk-y- sblply-sply, gny-rthy-slowy, v avg / dkgy blk carb Sh pgs, tr lse xln Calc, tr sply frt yel flr. slowfast string yel cuts, brt yel resd ring. SH (25%) as before. BENT (5%) mgv gybrn, scat mic mica &amp; mic Pyr, brt yel mnrl flr. Very Fine Cuttings.</p> <p>MRLST (80%) v dkgy, dk gybrn, blk, frm, brit-v frm, sblply-blky-sply, spwxy-rthy txt, occ Sh pgs, carb ip, NSO, tr sply yel flr, fast-slow string yel cuts, brt yel resd ring. SH (20%) dkgy blk, frm, sblply-sply-flky, rthy-slowy txt, calc, carb, marly ip, slow string yel cuts, mod-brt resd ring. BENT (Tr).</p> <p>MRLST (90%) as before. SH (10%), BENT (Occ) m-lgy tan, gny-slowy, mic mica ip, brt yel mnrl flr.</p> <p>MRLST frm, sh pgs, c yel cut frm, sh BENT marly i BENT mica, t</p>						



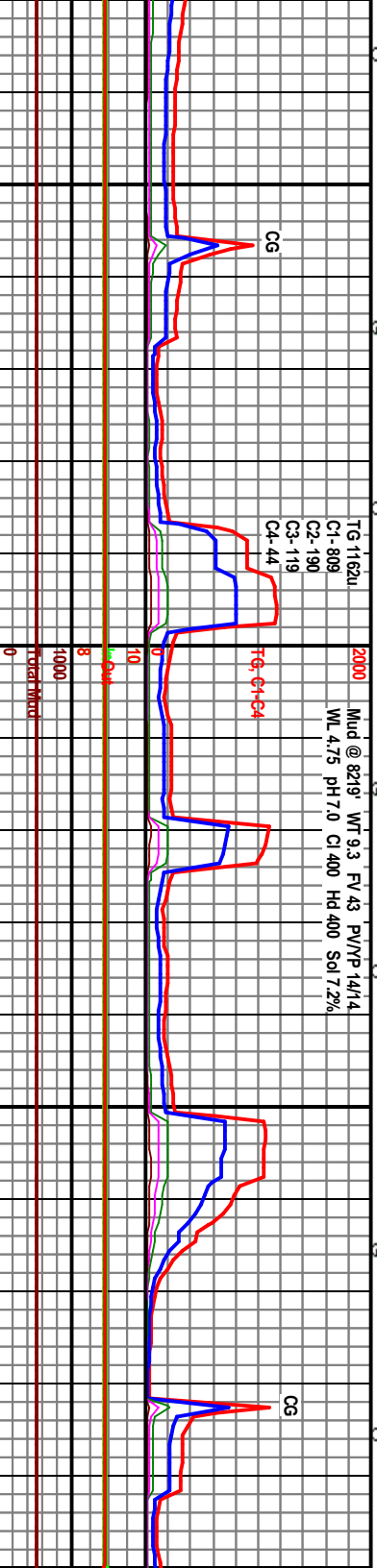


7981' MD Inc 90.0° AZ 335.8° TVD 7400.27' VS 797.52'	7300 TVD Inc 90.2° AZ 334.4° TVD 7400.21' VS 829.49'	8045' MD Inc 90.2° AZ 335.5° TVD 7400.10' VS 861.45'	8076' MD Inc 90.1° AZ 334.6° TVD 7400.02' VS 892.42'	8108' MD Inc 90.2° AZ 333.7° TVD 7399.94' VS 924.36'
(80%) dk- v dkgy-blk, dk gy-brn, frm-brt-v aply-bkly-sply, slwxy-rthy txt, occ Sh l carb ip, NSO, u sply yel flor, fast-slow string s, brt yel resid ring. SH (15%) dkgy blk, aply-sply-rlky, rthy-slowy txt, calc, carb, p, slow string yel cuts, mod-brt resid ring, 5% lt-m gy, tan, brn, slwxy-grny, scat mic brt yel mnrl flor.	MRLST (70%) v dk gy-blk, tr v sl dk brn gy, frm-hd, ply, ip sply, sm siksds, so wxy-wxy, v calc, v hi arg cont, No Flor, slw mlly-sl string brt yel cut, brt yl resid ring flor, gds to SH (25%) v dk gy-blk, ply, sply, siksds, sl-m calc, NSOF, wk yl slw string cut, dl yl resid ring flor. BENT (5+%) pl lt gy-pl gn, sft, ply, brt yl min flor.	MRLST (70%) No vis change: v dk gy-blk, tr v sl dk brn gy, frm-hd, ply, ip sply, sm siksds, sb wxy-wxy, v calc, v hi arg cont, No Flor, slw mlly-sl string brt yel cut, brt yl resid ring flor, gds to SH (25%) v dk gy-blk, ply, sply, siksds, sl-m calc, NSOF, wk yl slw string cut, dl yl resid ring flor. BENT (5+%) pl lt gy-pl gn, sft, ply, brt yl min flor.	MRLST (70%) v dk gy-blk, tr v sl frm-hd, ply, ip sply, sm siksds, calc, v hi arg cont, No Flor, slw mlly-sl string brt yel cut, brt yl resid ring flor, gds to SH gy-blk, ply, sply, siksds, sl-m calc, slw string cut, dl yl resid ring flor pl lt gy-pl gn, sft, ply, brt yl min	

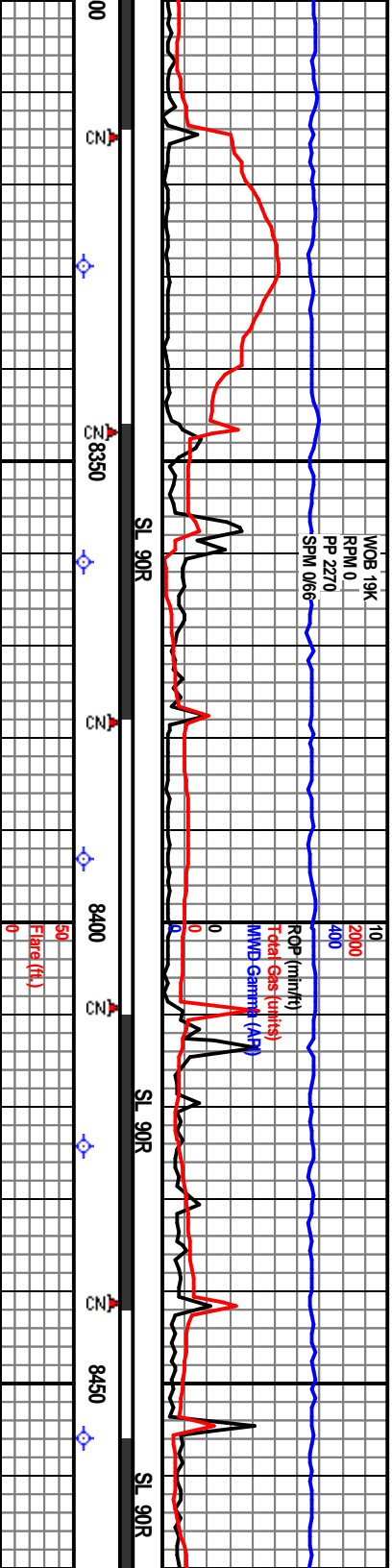
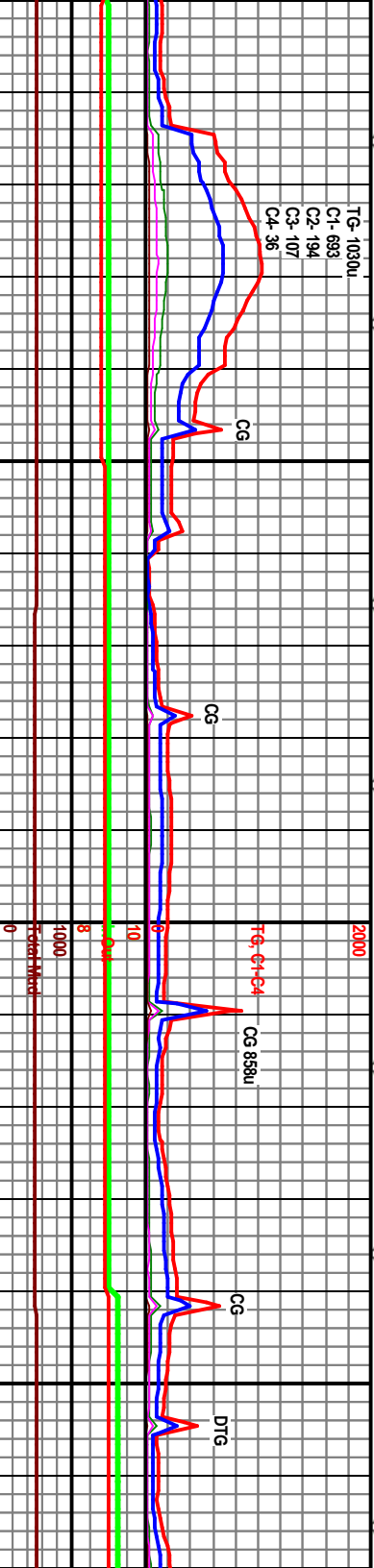


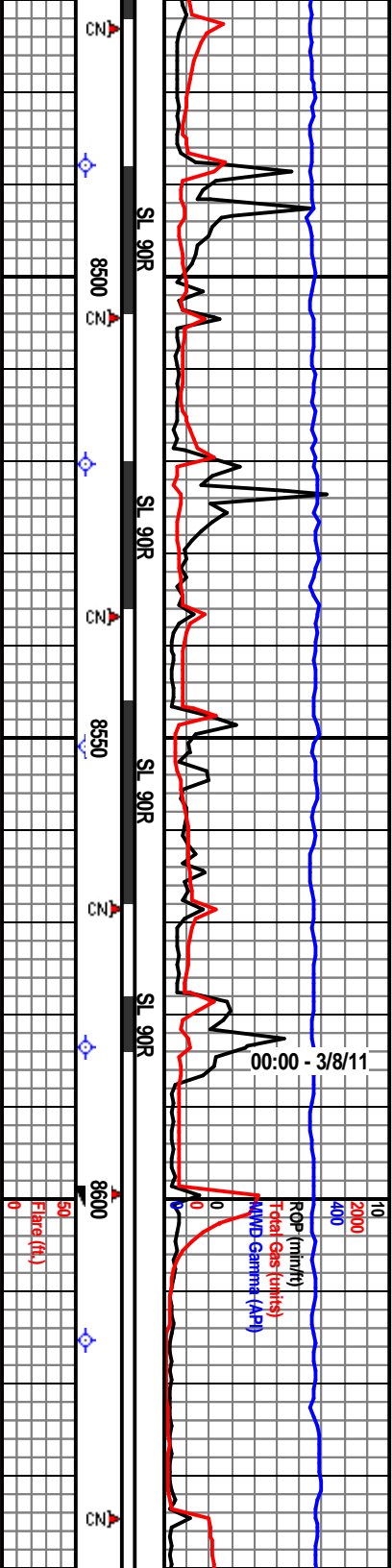


8139' MD Inc 90.3° AZ 333.7° TVD 7399.80' VS 955.29'	8171' MD Inc 90.3° AZ 333.9° TVD 7399.63' VS 987.22'	8203' MD Inc 89.8° AZ 334.3° TVD 7399.60' VS 1019.16'	8234' MD Inc 89.9° AZ 332.7° TVD 7399.69' VS 1050.08'	8266' MD Inc 90.3° AZ 332.0° TVD 7399.63' VS 1079.95'	8296' MD Inc 90.3° AZ 333.7° TVD 7399.63' VS 1111'
dk brn gy, sp wxy-wxy, v mly-si string brt SH (30%) v dk calc NSOF, wk yf BENT (TR-2%) flor.	MRLST (70%) No vis change: v dk gy-blk, tr v sl dk brn gy, frm-hd, pily, ip spily, sm slksds, sb wxy-wxy, v calc, v hi ang cont; No Flor, slw mly-si string brt yf cut, brt yf resid ring flor, gds to: SH (25%) v dk gy-blk, pily, spily, slksds, sl-m calc, NSOF, wk yf slw string cut, dl yf resid ring flor. BENT (5+%) pl lt gy-pl gn, sft, pily, brt yf min flor.	MRLST (65%) v dk gy-blk, tr v sl dk brn gy, frm-hd, pily, ip spily, sm slksds, sb wxy-wxy, v calc, v hi ang cont; No Flor, slw mly-si string brt yf cut, brt yf resid ring flor, gds to SH (30%) v dk gy-blk, pily, spily, slksds, sl-m calc, NSOF, wk yf slw string cut, dl yf resid ring flor. BENT (5%) pl lt gy-pl gn, sft, pily, brt yf min flor.	MRLST (60%) v dk gy-blk, tr v sl dk brn gy, frm-hd, pily, ip spily, sm slksds, sb wxy-wxy, v calc, v hi ang cont; No Flor, slw mly-si string brt yf cut, brt yf resid ring flor, gds to SH (30%) v dk gy-blk, pily, spily, slksds, sl-m calc, NSOF, wk yf slw string cut, dl yf resid ring flor. BENT (10%) pl lt gy-pl gn, sft, pily, brt yf min flor.	Going thru Rig Gas Buster & Weatherford AutoChoke	





[illegible]



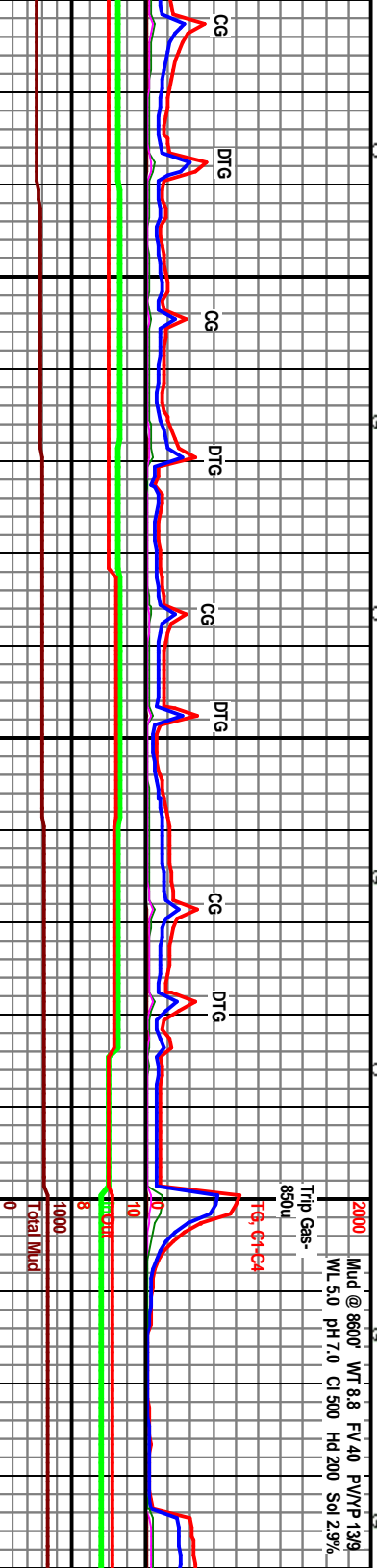
8488' MD Inc 89.9° AZ 336.6° TVD 7399.74' VS 1303.48'	8520' MD Inc 90.2° AZ 336.9° TVD 7399.72' VS 1335.47'	8551' MD Inc 89.7° AZ 336.4° TVD 7399.74' VS 1366.47'	8583' MD Inc 89.5° AZ 339.7° TVD 7399.97' VS 1398.46'	7300 TVD Inc 90.0° AZ 339.3° TVD 7400.11' VS 1430.45'
: @ 8500' MD (~1300' VS) - 7-7-403' TVD.	Waypoint #2: @ 9200' MD (~2000' VS) - Window 7398-7404' TVD.	TOH for Mud Motor @ 8599'. RR Bit #3 w/ New Mud Motor (1.5' Bend) & MWD GRD/Directional BHA. Drill Ahead 14:30 - 3/7/11	Circ thru Gas Buster & Weatherford AutoChoke	
Borehole				
Target				

gy-blk, tr v sl dk brn gy,  
lty, sm silsds, sb wxy-wxy, v  
No Flor, slw mky-sl string brt  
ring flr, gds to SH (15%) v dk  
silsds, sl-m calc. NSOF, wk yl  
resid ring flr. BENT (10%)  
bly, brt yl min flr.

MRLST (80%) No Vis Change: v dk gy-blk, tr v sl  
dk brn gy, frm-hd, pily, ip splty, sm silsds, sb  
wxy-wxy, v calc, v hi ag cont; No Flor, slw mky-sl  
string brt yl cut, brt yl resid ring flr, gds to SH  
(15%) v dk gy-blk, pily, splty, silsds, sl-m calc.  
NSOF, wk yl slw string cut, cl yl resid ring flr.  
BENT (5+%) pl lk gy-pl gn, sft, pily, abnt micro pyr,  
brt yl min flr.

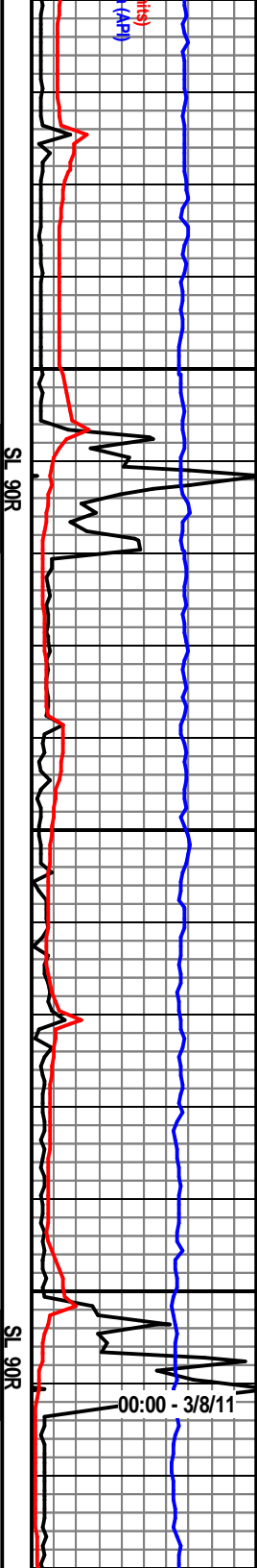
MRLST (85%) v dkgy-blk, dk brngy, frm-brt-v frm,  
sbply-sbply-sply, rthy-grny, sbwxy txt, mod-v  
calc, hi cty content grdg-marly Sh, carb ip, NSOF,  
slow string-tr mky-fast string brt yel cuts, mod-brt  
yel resid ring. SH (15%) gen as before. BENT  
(Tr).

MRLST (60%) v dk gy-blk-dk gy brn, frm, sb ply  
sb wxy-tr rthy, hi ag cont, v calc, tr micro lam;  
Flor, imed slw mky-sl string cut, brt yl resid r  
flr; ip v shly gds SH (20%) v dk gy, frm-hd ply  
ip flss, sb wxy, mthy, m calc, No Flor, wk slw  
mky-v slw mky cut & wk yl resid ring flr. BENT  
(20%) pl lk gygn, v sft, pily, com vi pyr  
spks/inclus, brt yl min flr.









SL 90R

SL 90R



	8837 MD Inc 89.5° AZ 337.2° TVD 7401.41' VS 1652.42'	8869' MD Inc 89.8° AZ 338.4° TVD 7401.60' VS 1684.42'	8900' MD Inc 89.7° AZ 336.5° TVD 7401.74' VS 1715.42'	8932' MD Inc 90.2° AZ 338.0° TVD 7401.77' VS 1747.41'	8963' MD Inc 90.4° AZ 339.2° TVD 7401.60' VS 1778.41'
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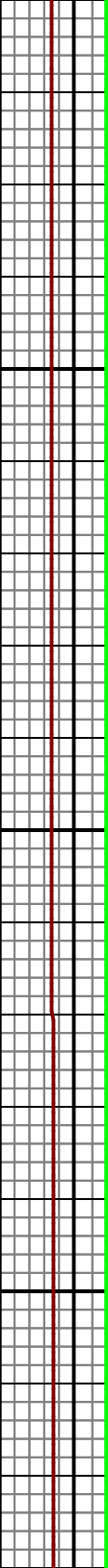
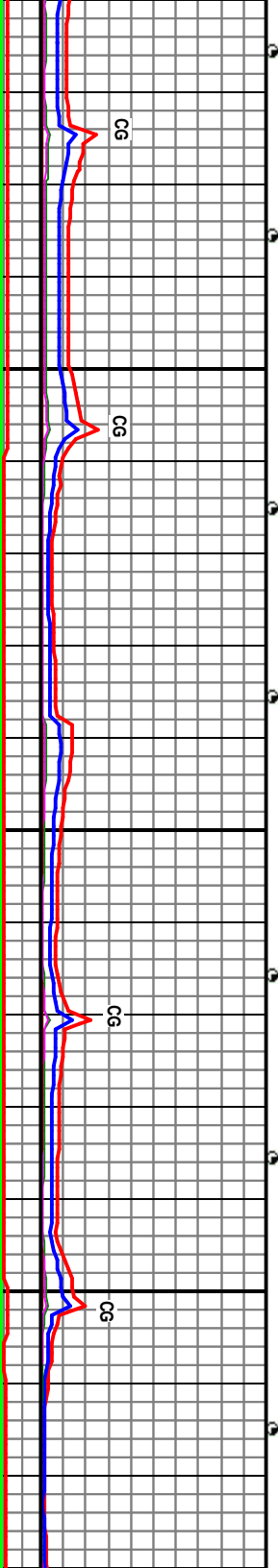
(70%) No Vis Change: v dk gy- blk-dk gy  
sb pily, sb wxy-tr rthy, ip w/ mixln txt, hi  
v calc, tr micro lam; No Flor, imed slw  
string cut, brt yl resid ring flor; ip v shly  
20% v dk gy, frm-hd pily, ip fss, sb wxy,  
No Flor, wk slw mlky-v slw mlky cut  
resid ring flor. BENT (10%) pl lt gygn, v  
com vt pyr spksfinculus, brt yl min flor.

MRL ST (70%) No Vis Change: v dk gy- blk-dk gy  
brn, frm, sb pily, sb wxy-tr rthy, ip w/ mixln txt, hi  
arg cont, v calc, tr micro lam; No Flor, imed slw  
mlky-sl string cut, brt yl resid ring flor; ip v shly  
gddg SH (15%) v dk gy, frm-hd pily, ip fss, sb wxy,  
mily, m calc, No Flor, wk slw mlky-v slw mlky cut  
& wk yl resid ring flor. BENT (15%) pl lt gygn, v  
sft, pily, com vt pyr spksfinculus, brt yl min flor.

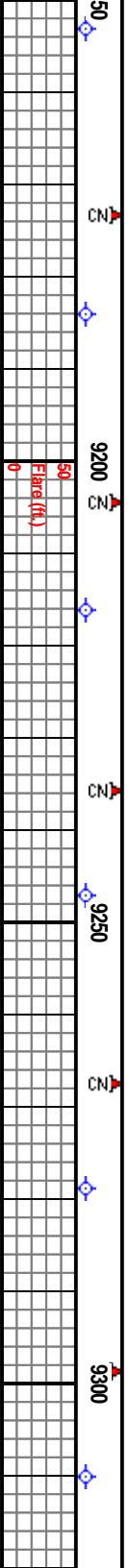
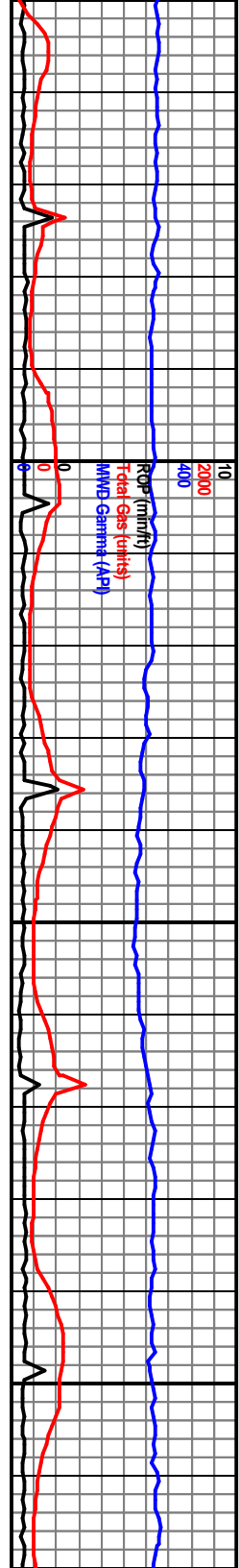
MRL ST (70%) No Vis Change: v dk gy- blk-dk gy  
brn, frm, sb pily, sb wxy-tr rthy, ip w/ mixln txt, hi  
arg cont, v calc, tr micro lam; No Flor, imed slw  
mlky-sl string cut, brt yl resid ring flor; ip v shly  
gddg SH (15%) v dk gy, frm-hd pily, ip fss, sb wxy,  
mily, m calc, No Flor, wk slw mlky-v slw mlky cut  
& wk yl resid ring flor. BENT (15%) pl lt gygn, v  
sft, pily, com vt pyr spksfinculus, brt yl min flor.

MRL ST (80%) v dkgy-blk, tr gy  
sppily-sbilly-sply, grny-sbwn  
carb ip, hi cty content grdg-ne  
NSOF, imed fast-slow string y  
ring. SH (10%). BENT (10%).

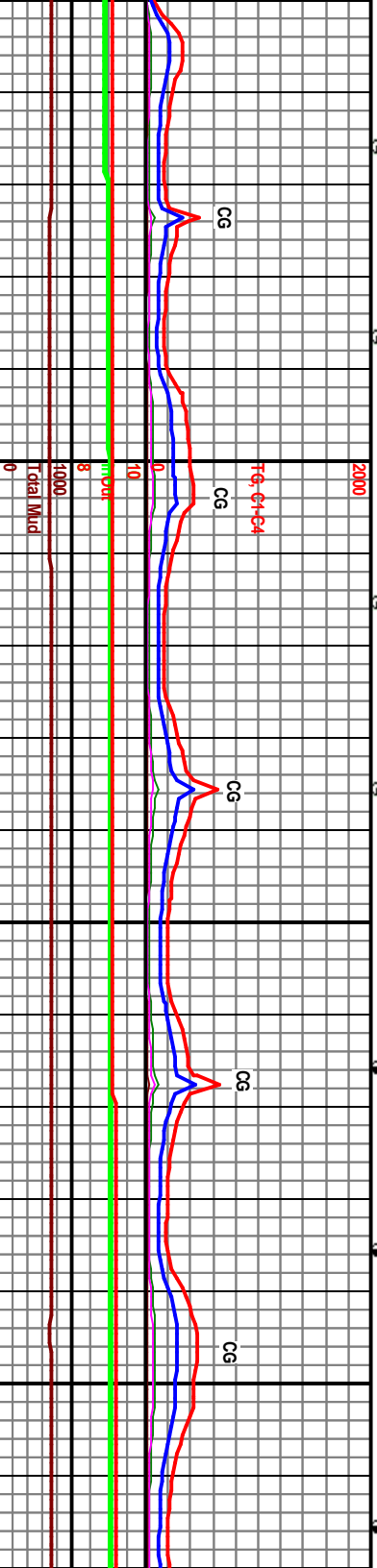
Boi

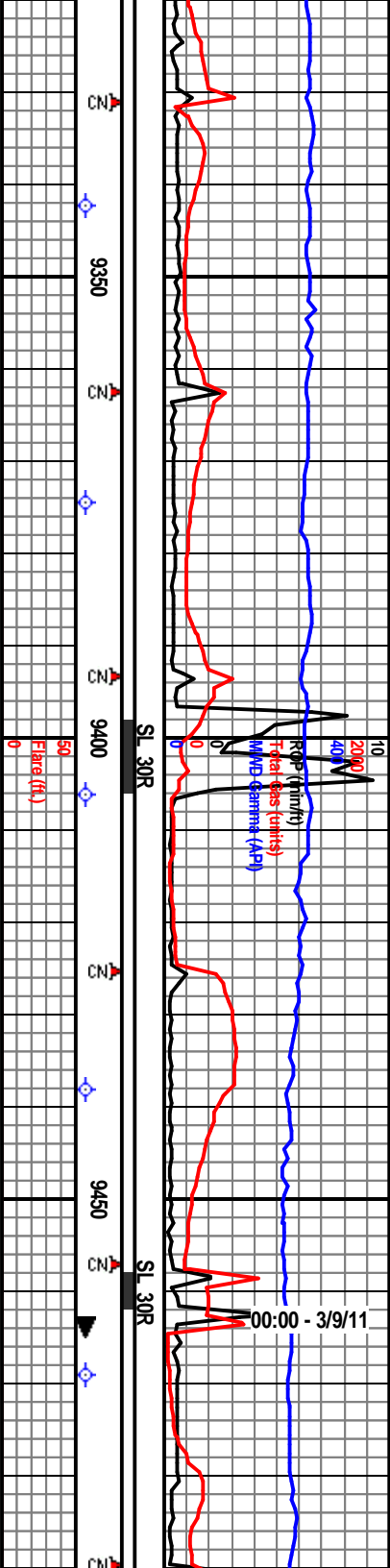




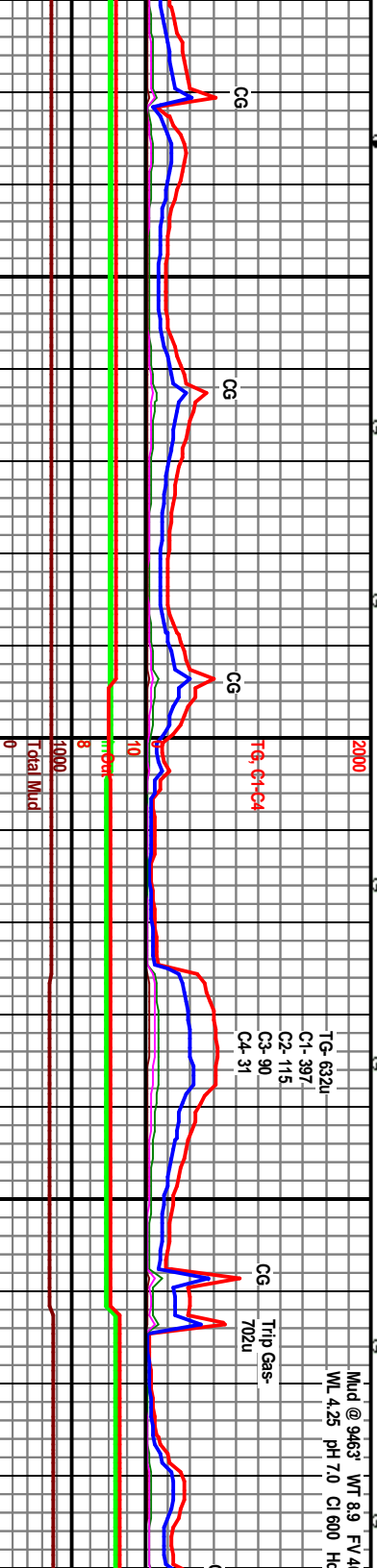


9153' MD	9184' MD	7300' TVD	9216' MD	9247' MD	9279' MD	9310' MD
Inc 90.3°	Inc 90.0°		Inc 89.7°	Inc 89.6°	Inc 89.4°	Inc 89.5°
AZ 339.1°	AZ 339.0°		AZ 338.8°	AZ 339.6°	AZ 339.0°	AZ 338.2°
TVD 7401.03'	TVD 7400.94'		TVD 7401.03'	TVD 7401.22'	TVD 7401.50'	TVD 7401.79'
VS 1968.29'	VS 1999.28'		VS 2031.26'	VS 2062.26'	VS 2094.25'	VS 2125.24'
SICP @ 9173' - 11 psi						
Waypoint #2: @ 9200' MD (~2000' VS) - Window 7398-7404' TVD.						
Waypoint #3: @ 10,000' MD (~2800' VS) - Window 7402-7408' TVD.						
No Vis Lith Change: MRLST (75%) v dkgy- blk, tr gybrn, frm- brt-v frm, spily-sbily- spily, grny-sbwxy- rthy txt, v calc, sl carb lp, hi cly content grdg-marly Sh, NSOF, imed fast- slow strng yel cut, brt yel read ring, SH (25%) v dkgy- blk, frm-brt-v frm, spily-sply- ply, rthy-sbwxy, marly lp, mod-v calc, NSOF, slow string-cldy yel cuts BENT (Tr).						
No Vis Lith Change: MRLST (75%) v dkgy- blk, tr gybrn, frm- brt-v frm, spily-sbily- spily, grny-sbwxy- rthy txt, v calc, sl carb lp, hi cly content grdg-marly Sh, NSOF, imed fast- slow strng yel cut, brt yel read ring, SH (25%) v dkgy- blk, frm-brt-v frm, spily-sply- ply, rthy-sbwxy, marly lp, mod-v calc, NSOF, slow string-cldy yel cuts BENT (Tr).						
MRLST (90%) dk gybrn, dkgy-blk, v frm-brt- hd, spily-blky-sply-ieg, grny-sbwxy-rthy txt, mod-v ang, grdg-marly Sh lp, tr Fos frags, occ frt spy yel flor, imed slow-fast strng yel cuts, brt yel read ring, SH (10%), BENT (Tr).						
MRLST (85%) as ls dkgy-blk, pred sbly-ieg, grny-sbwxy-rthy txt, mod-v ang, lams, carb lp, tr spily, imed slow-fast strng yel cuts, brt yel read ring, SH (10%), BENT (Tr).						



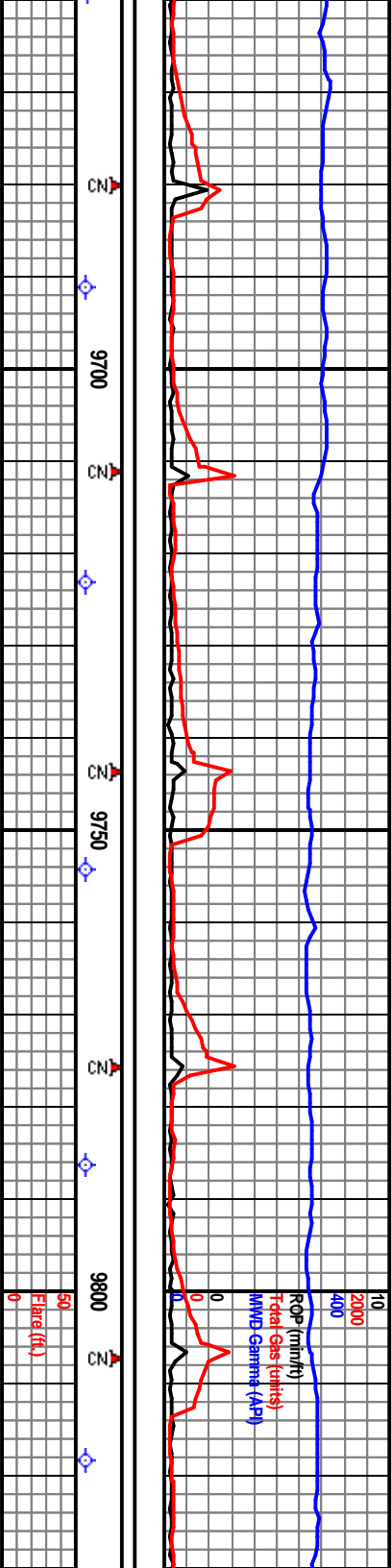


9342' MD Inc 89.1° AZ 338.2° TVD 7402.19' VS 2157.24'	9374' MD Inc 88.9° AZ 338.6° TVD 7402.74' VS 2189.23'	7300 TVD 9406' MD Inc 88.9° AZ 339.2° TVD 7403.36' VS 2221.22'	9438' MD Inc 88.6° AZ 338.8° TVD 7404.06' VS 2253.20'	9469' MD Inc 88.9° AZ 338.6° TVD 7404.73' VS 2284.19'
before, v/firm-brt-firm, inc v axy-rthy, hi cly cont / Sh mic xy yel flr, imed slow-fast string ring. SH (15%) dkgy blk, v arly, carb ip, NSOC, slow string read ring. BENT (17').	MRLST (85%) dk brngy, v dkgy, brt-v firm, soply-sbdky-sply, sbwxy txt, rthy ip, v calc, hi cly cont, grdg-maty Sh ip, tr Fos frags & carb matr, NSOC, imed slow-fast string yel cuts, brt yel read ring. SH (15%), BENT (17) oliv, mlt-gy, tan, sft, ply-bkly, sbwxy-chky txt, scat v/ mica & Pyr, brt-mod yel mnrl flr.	MRLST (85%) v dkgy, occ dk brngy, brt-v firm, soply-sbdky-sply, sbwxy txt, rthy ip, mod-v calc, hi cly cont, grdg-maty Sh ip, tr Fos frags, NSOC, imed slow-fast string yel cuts, brt yel read ring. SH (15%) v dkgy, frm-brt, soply-pty, rthy-sbwxy, mod-v calc, maty ip, carb ip. BENT (17').	TOH for Mud Motor @ 9463'. ReRun Bit #3 w/ New Mud Motor (1.5° Bend) & MWD GRD/Directional BHA. Drill Ahead 02:45 - 3/9/11	
		MRLST (75%) v dkgy, occ dk brngy, brt-v firm, soply-sbdky-sply, sbwxy-rthy gmy txt, mod-v cly cont, grdg-maty Sh ip, tr Fos frags, NSOC, slow-fast string yel cuts, brt yel read ring. SH dkgy, frm-brt, soply-pty, rthy-sbwxy, mod-v calc, maty ip, carb ip. BENT (10%) mgy, oliv, sft-si ft ply-bkly, occ scat mic mica, tr mic Pyr, brt yel flr.		





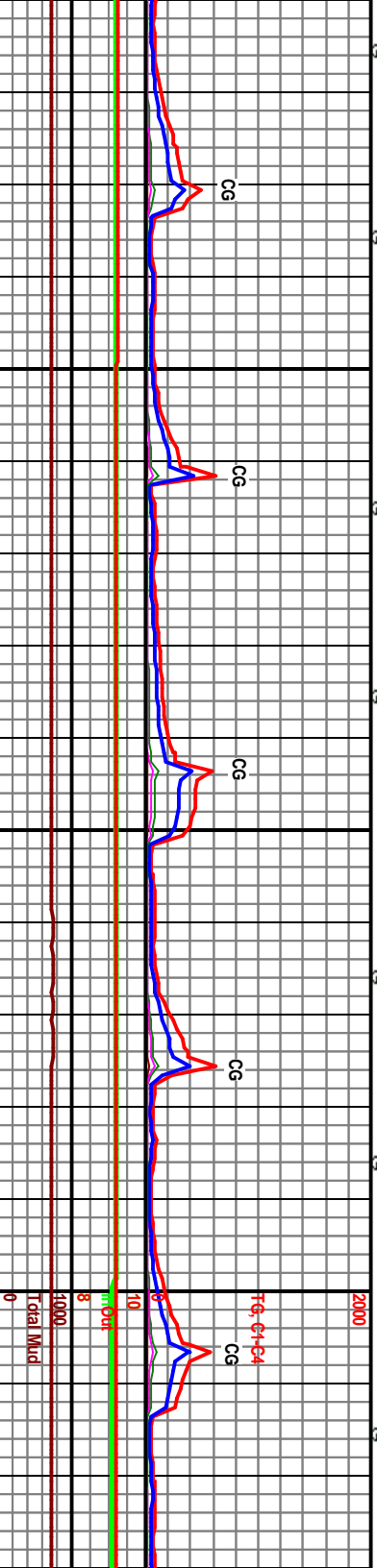




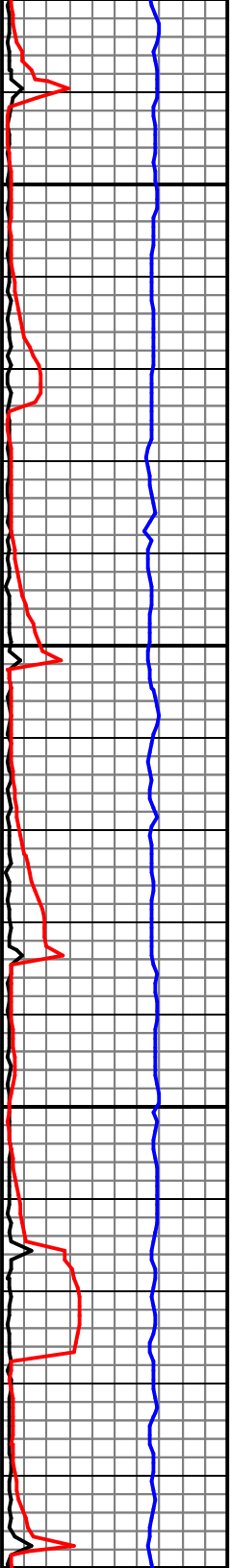
MD	Inc	MD	Inc	MD	Inc	MD	Inc	MD	Inc
9691'	MD	9723'	MD	9754'	MD	9786'	MD	9818'	MD
Inc 88.7°		Inc 89.1°		Inc 89.6°		Inc 90.2°		Inc 90.5°	
AZ 337.4°		AZ 337.9°		AZ 337.7°		AZ 338.8°		AZ 339.5°	
TVD 7403.53'		TVD 7403.86'		TVD 7404.68'		TVD 7404.27'		TVD 7404.08'	
VS 2506.12'		VS 2538.12'		VS 2569.11'		VS 2601.11'		VS 2633.10'	

Going thru Rig Gas Buster & Weatherford Autochoke

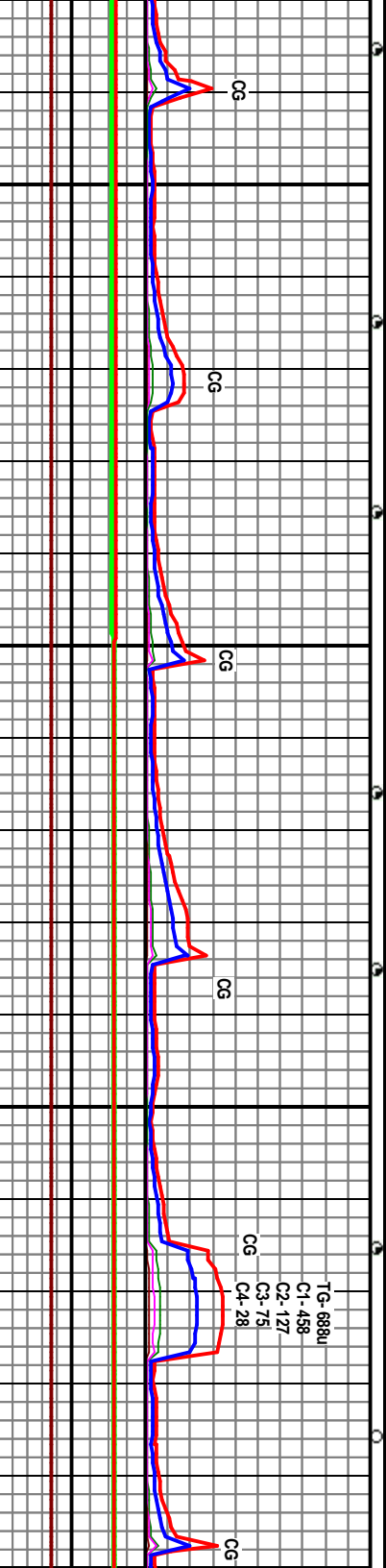
(85%) v dk gy-dk gy brn, tr blk, frm-v frm, sbblky-sply, sb wxy-rthy, v-mod calc, hi calc, hi cty cont, grdg-sh ip, tr Fos frags, grdg-sh ip, NSOF, imed cut, bnt resd ring, SH (10%) v dk gy, frm, sply-sply, tr pily, mty ip, calc, cab ip, NSOF, wk slow mlky-slow el cut, mod vel resd ring, BENT (5%) - gy, frm-sft, pily, v mica, bnt yl mn flr.	MRLST (85%) dk bmg, v dkgy, brt-frm-v frm, sbblky-sply-sply, sbwxy-rthy, sl grny ip, v-mod calc, hi cty cont, grdg-sh ip, tr Fos frags, NSOF, imed slow-fast string yel cut, bnt resd ring, SH (10%). BENT (5%).	MRLST (70%) v dkgy, occ dk bmg, brt-frm-v frm, sbblky-sply-sply, sbwxy-rthy, v-mod calc, hi cty cont, grdg-sh ip, tr Fos frags, NSOF, imed slow-fast string yel cut, bnt resd ring, SH (20%) v dkgy-blk, frm, sbply, sbwxy-rthy, mod-v calc, mty ip, NSOF, slow string-fr mlky cut. BENT (10%) mgy grny, sft-frm, pily-blky, mic mica, tr mic Pyr, bnt yel mn flr.	MRLST (85%) v dkgy, occ dk blk, sbblky-sply-sply, sbwxy-rthy, v-mod calc, hi cty cont, grdg-sh ip, NSOF, imed cut, bnt resd ring, SH (10%) v dkgy-rthy, mod-v calc, mty string-fr mlky cut. BENT (5%)
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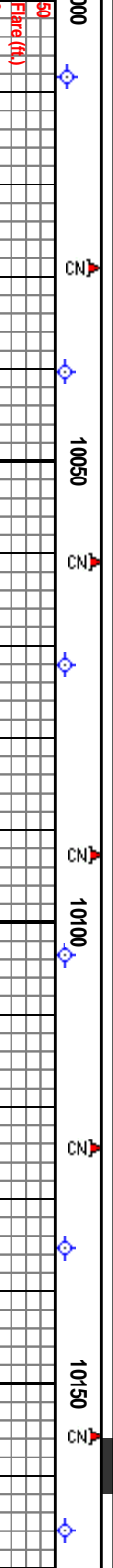
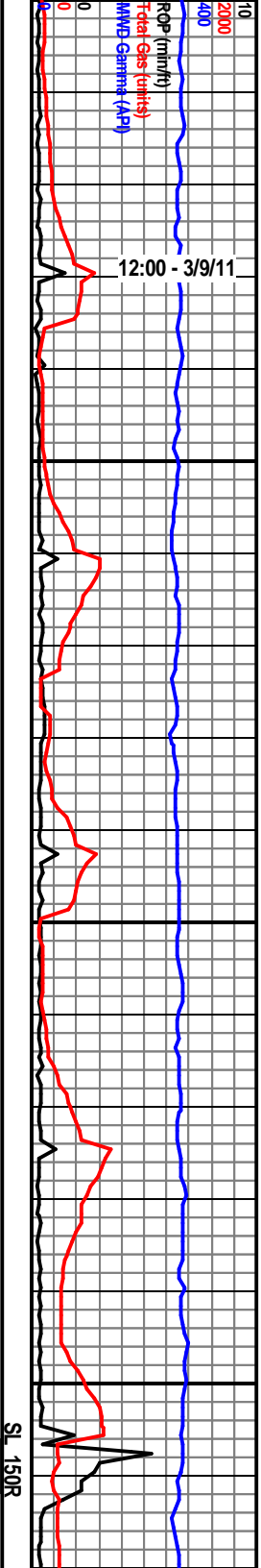






9849' MD Inc 89.6° AZ 338.0° TVD 7404.05' VS 2664.09'		9881' MD Inc 89.6° AZ 337.6° TVD 7404.27' VS 2696.09'		9913' MD Inc 90.0° AZ 338.7° TVD 7404.38' VS 2728.09'		9945' MD Inc 89.8° AZ 338.4° TVD 7404.44' VS 2760.08'		9977' MD Inc 89.3° AZ 337.4° TVD 7404.69' VS 2792.08'	
mrgy, brlt-frn- frm, y, v-mod calc, hi clay slow-fast string yel dkgy-blk, frm, spily, ip, NSOF, slow		MRLST (85%) v dkgy, dk brngy, blk, lamin ip, v frm-hd, spily-spily-biky, slowy-rthy, v-mod calc, hi clay cont, grdg-sh ip, NSOF, lined slow-fast string yel cut, brt resd ring. SH (10%) v dkgy-blk, frm, spily, slowy-rthy, mod-v calc, many ip, NSOF, slow string-fr milky cut. BENT (5%)		MRLST (80%) v dkgy, occ dk brngy, v frm- brlt-hd, spily-spily-biky, slowy-rthy, v-mod calc, hi clay cont, grdg-sh ip, NSOF, lined slow-fast string yel cut, brt resd ring. SH (10%) v dkgy, occ m gy, blk, frm, spily-pily, slowy-rthy, mod-v calc, many ip, occ scat carb matr, NSOF, slow string-fr milky cut. BENT (10%) mrgy, gngy, frm, spchky, occ mic mlca & mic Pyr, brt-mod yel mntr flr.		MRLST (60%) v dk gy-fr v dk brn gy, frm-hd, pred sb pily-fr blkgy, sb wxy-fr rthy, r wlmixn txt, v hi arg cont, v calc. No Flor, slow string yel cut & mod-brt yel resid ring flr. grds to SH (25%) v dk gy, frm-hd, pily, spily, loc fess ip 2 sl mrlly, m calc, No Flor, wk mrlly yl cut & wk dl yl resid ring. BENT (15%) pl lt gy gn, sft, flly/pily, pyric, brt yl mntr flr. Vy Fine Cuttings (0.5-1 mm).		Waypoint #3: @ 10,000' MD (~2800' VS) - Window 7402-7408' TVD.	





7300 TVD	10008' MD Inc 89.2° AZ 338.0° TVD 7405.10' VS 2823.08'	10040' MD Inc 89.5° AZ 337.8° TVD 7405.46' VS 2865.08'	10072' MD Inc 89.7° AZ 339.5° TVD 7405.68' VS 2867.07'	10103' MD Inc 90.0° AZ 340.1° TVD 7405.76' VS 2918.05'	10135' MD Inc 90.0° AZ 340.0° TVD 7405.60' VS 2950.04'	10166' MD Inc 89.0° AZ 339.0° TVD 7405.8' VS 2981.0'
Waypoint #4: @ 11200' MD (~4000' VS) - Window 7407-7414' TVD.						
Going thru Rig Weatherford Au						

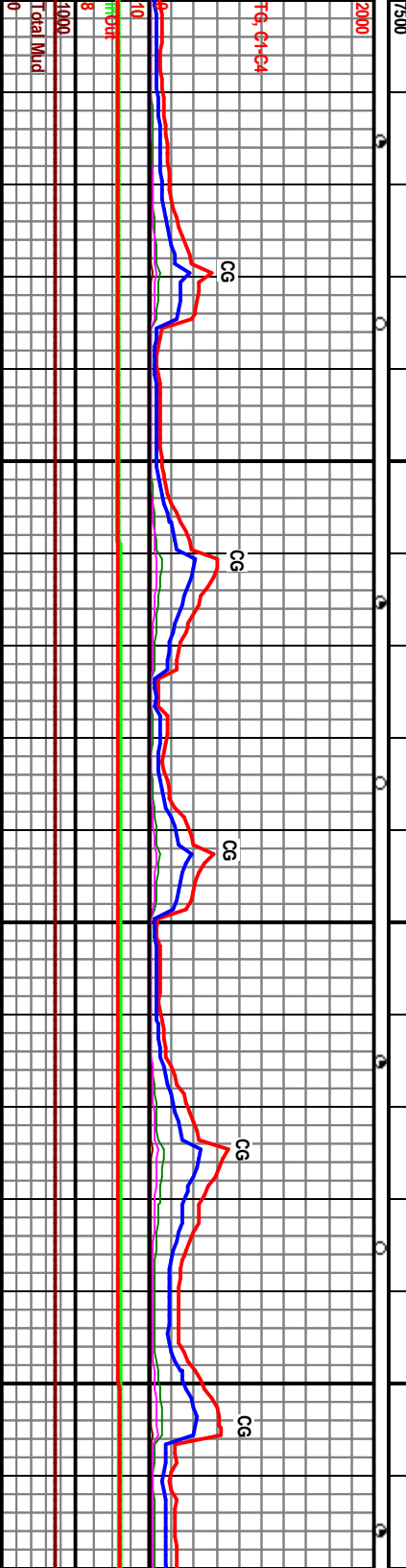


MRLST (60%) v dk gy-tr v dk bn gy, frm-hd, pred sb ply-tr blk, sb wxy-tr rthy, tr wlmshn txt, v hi arg cont, v calc; No Flor, slow string yel cut & mod yel resid ring flor; grds to SH (30%) v dk gy, frm-hd, ply, sply, loc flss, lp ? sl mntly, m calc, No Flor, wk mltly yl cut & wk dl yl resid ring; BENT (10%) pl lk gy gn, sft, flky/ply, pyric, brt yl min flor. Vy Fine Cuttings (0.5-1 mm).

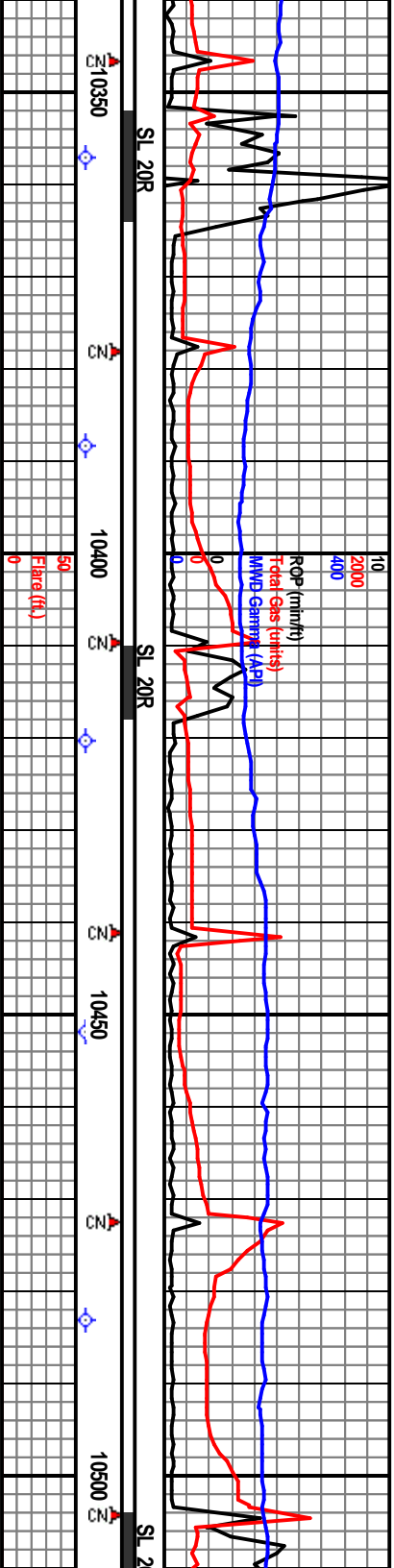
MRLST (60%) v dk gy-tr v dk bn gy, frm-hd, pred sb ply-tr blk, sb wxy-tr rthy, tr wlmshn txt, v hi arg cont, v calc; No Flor, slow string yel cut & mod yel resid ring flor; grds to SH (25%) v dk gy, frm-hd, ply, sply, loc flss, lp ? sl mntly, m calc, No Flor, wk mltly yl cut & wk dl yl resid ring; BENT (15%) pl lk gy gn, sft, flky/ply, pyric, brt yl min flor. Vy Fine Cuttings (0.5-1 mm).

MRLST (60%) No Vis Change; v dk gy-blk, tr v dk brn gy, frm-hd, sb ply-tr blk, sb wxy-tr rthy, tr wlmshn txt, v hi arg cont, v calc; No Flor, slow string yel cut & mod yel resid ring flor; grds to SH (25%) v dk gy, frm-hd, ply, sply, loc flss, lp ? sl mntly, m calc, No Flor, wk mltly yl cut & fnt dl yl resid ring; BENT (15%) pl lk gy gn, sft, flky/ply, pyric, brt yl min flor. Vy Fine Cuttings (0.5-1 mm).

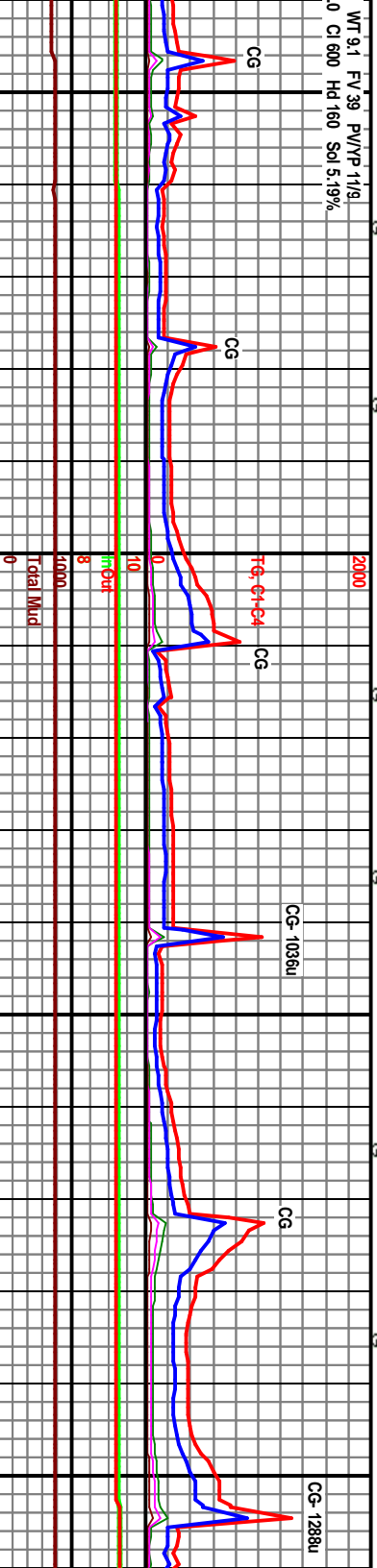
MRLST (70%) v dk pred sb ply-tr blk, txt, v hi arg cont, v calc; No Flor, slow & mod-wk yel resid dk gy, frm-hd, ply calc, No Flor, wk tr ring; BENT (10%) brt yl min flor. Vy



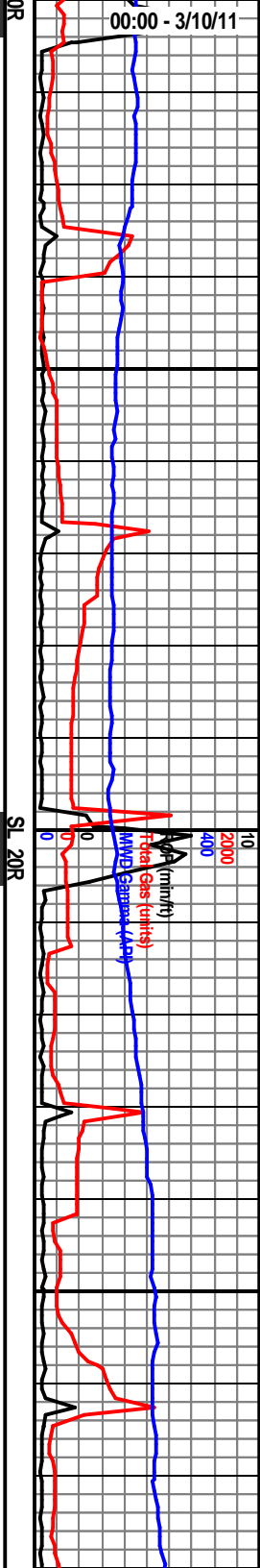




10357' MD Inc 88.3° AZ 337.8° TVD 7411.44' VS 3171.92'	10388' MD Inc 88.6° AZ 337.9° TVD 7412.28' VS 3202.91'	7300 TVD 10420' MD Inc 89.4° AZ 338.1° TVD 7412.84' VS 3234.90'	10452' MD Inc 89.1° AZ 338.6° TVD 7413.25' VS 3266.90'	10483' MD Inc 89.4° AZ 338.8° TVD 7413.66' VS 3297.89'	
MRLST (90%) dk brn gy mtlld w/lt brn spks & micro lams, m frm, blk, rthy, hi arg cont, chky, No Flor, fr mky-slow string yel cut, mod-cl yi resid ring flor. SH (10%) dk gy, frm-hd, ply, sply, loc fss, ip 2 sl mty, m calc, No Flor, wk mky yi cut & wk dl yi resid ring. BENT (TR) pl lt gy gn, sft, flky/ply, pyric, brt yi min flor. Vy Fine Cuttings (0.5-1 mm).		MRLST (90%) dk brn gy mtlld w/lt brn spks & micro lams, m frm, blk, rthy, hi arg cont, Chky, No Flor, wk slw mky-sl string cut, dl yi resid ring flor. SH (10%) dk gy, frm-hd, ply, sply, loc fss, ip 2 sl mty, m calc, No Flor, wk mky yi cut & wk dl yi resid ring. BENT (TR) pl lt gy gn, sft, flky/ply, pyric, brt yi min flor. Vy Fine Cuttings (0.5-1 mm).	MRLST (90%) dk brn gy mtlld w/lt brn spks & micro lams, m frm, blk, rthy, tr mxn txt, hi arg cont, Chky, No Flor, wk slw mky-sl string cut, dl yi resid ring flor. SH (10%) dk gy, frm-hd, ply, sply, loc fss, ip 2 sl mty, m calc, No Flor, wk mky yi cut & wk dl yi resid ring. BENT (TR) pl lt gy gn, sft, flky/ply, pyric, brt yi min flor. Vy Fine Cuttings (0.5-1 mm).	MRLST (90%) dk brn gy mtlld w/lt brn spks & micro lams, m frm, blk, rthy, tr mxn txt, hi arg cont, Chky, No Flor, wk slw mky-sl string cut, dl yi resid ring flor. SH (10%) dk gy, frm-hd, ply, sply, loc fss, ip 2 sl mty, m calc, No Flor, wk mky yi cut & wk dl yi resid ring. BENT (TR) pl lt gy gn, sft, flky/ply, pyric, brt yi min flor. Vy Fine Cuttings (0.5-1 mm).	



00:00 - 3/10/11



SL 20R

10550

10550

10600

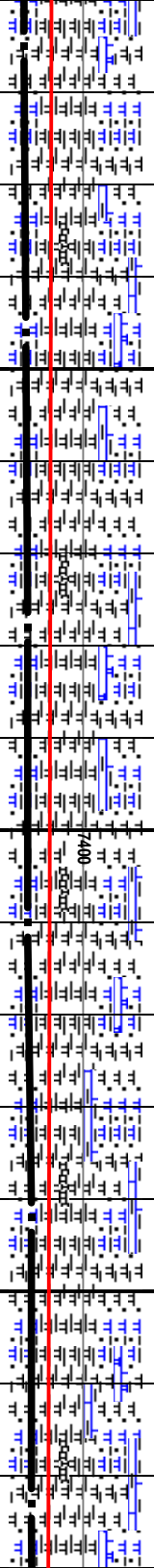
10650

10650

Flow (ft)  
0 50 100

0515' MD Inc 90.9° AZ 339.5° TVD 7413.56' VS 3329.88'	10546' MD Inc 90.5° AZ 340.6° TVD 7413.20' VS 3360.85'	10578' MD Inc 90.0° AZ 338.9° TVD 7413.03' VS 3392.82'	7300 TVD 10610' MD Inc 91.0° AZ 338.9° TVD 7412.72' VS 3424.81'	10642' MD Inc 90.8° AZ 338.8° TVD 7412.22' VS 3456.80'	10673' MD Inc 90.5° AZ 338.6° TVD 7411.87' VS 3487.79'
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SICP @ 10,598' - 2 psi



(90%) v dkgy, dk brngy, mot ip, frm-brit-v  
bly-sbply, rthy-slowy, hi cly cont, v-mod  
edg-marly Sh ip, NSOF, slow strng-fr mky  
s, mod yel read ring. SH (10% v dkgy), frm,  
mod v calc, marly ip. BENT (Rare). Fine  
cuts.

MRLST (100%) v dkgy, dk brngy, occ n gybrn,  
brit-frm, sbply-sbply, v calc, hi-mod cly cont /  
tr Sh pgs, occ Fos frags, NSO, tr fit sply yel  
flor, slow-fast strng yel cuts, mod-brit yel read  
ring. SH (Tr). BENT (Tr) mgy, gngy, bly-ply,  
tr mica, brt yel mnt flor. Very Fine Cuttings.

MRLST (90%) v dkgy, dk brngy, frm-brit-v frm,  
bly-sbply, rthy-slowy-gngy tr, v calc, hi-mod cly  
cont, occ Sh pgs, tr carb matr & Fos frags, NSO,  
tr fit sply yel flor, imed slow-fast strng yel cuts,  
mod-brit yel read ring. SH (10%). BENT (Tr).  
Fine Cuttings.

MRLST (95%) v dkgy, dk brngy, fr  
sbply-sbply-ply-sply, rthy-slow  
calc, hi-mod cly cont, occ Sh pig  
Fos frags, NSO, tr fit sply yel flor  
strng yel cuts, mod-brit yel read  
BENT (Rare). Fine Cuttings.

CG

CG

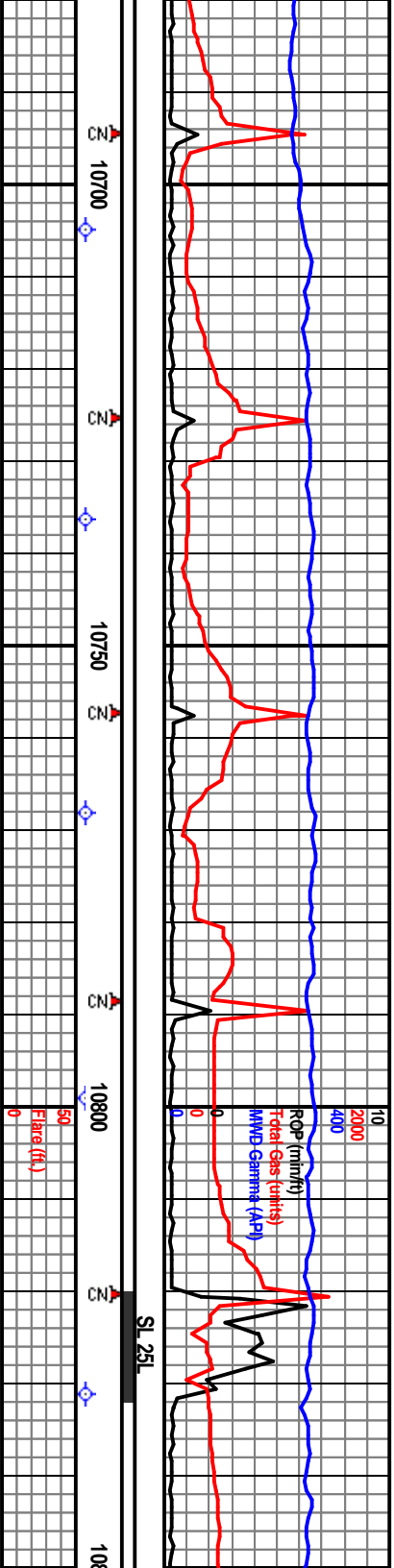
CG-1214u

CG

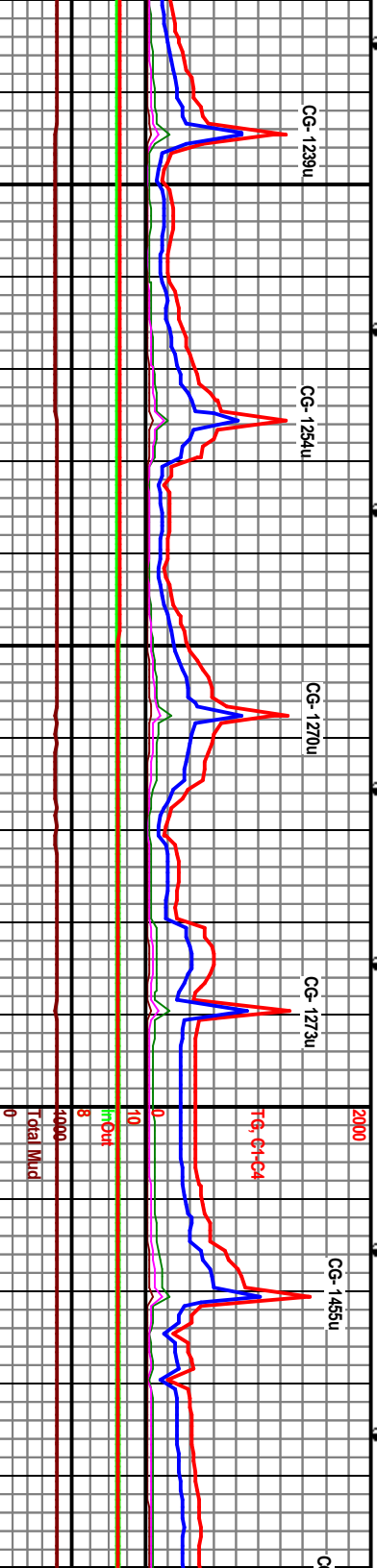
CG-1063u

Flow (ft)  
0 8 10

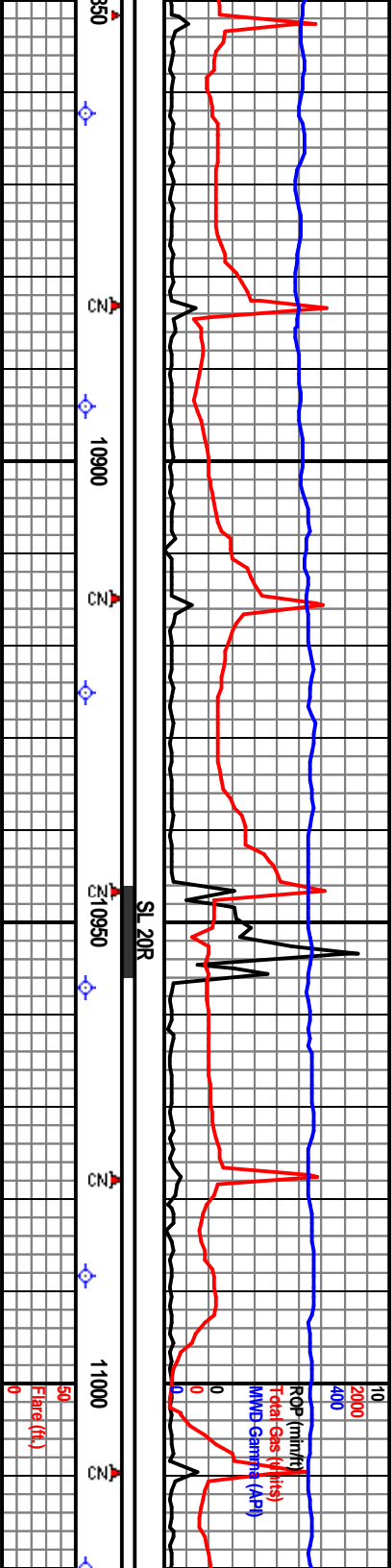
Total Mud  
0 1000 2000



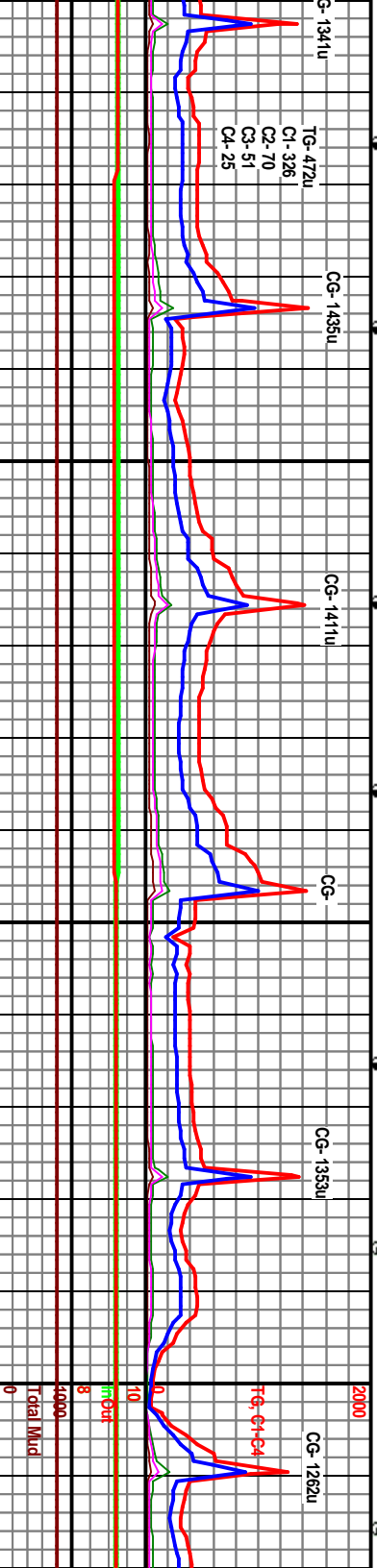
10705' MD Inc 90.4° AZ 338.5° TVD 7411.62' VS 3519.79'	10736' MD Inc 90.1° AZ 339.6° TVD 7411.48' VS 3550.78'	10768' MD Inc 89.6° AZ 338.3° TVD 7411.57' VS 3582.77'	10799' MD Inc 89.2° AZ 338.3° TVD 7411.89' VS 3613.76'	10831' MD Inc 90.4° AZ 336.3° TVD 7412.00' VS 3645.76'
<p>firm-brt-v frm, s, tr carb mat &amp; ing. SH (5%).</p> <p>MRLST (95%) v dkgy, dk brngy, frm-brt-v frm, sblly-sblly-pty-sply, rthy-sbwy txt, gmy lp, v calc, hi-mod cly cont, occ Sh pigs, tr carb mat &amp; Fos frags. NSO, tr fnt sply yel flor, lined slow-fast string yel cuts, mod-brt yel resd ring. SH (5%). BENT (raae). Fine Cuttings.</p>	<p>MRLST (95%) dk brngy, frm-v frm-brt, sblly-sply, rthy-gmy-sbwy, v calc, mod-hi cly cont / occ Sh pigs, r Fos frags, tr fnt yel flor, slow-fast string yel cuts, mod-brt yel resd ring. SH (5%) v dkgy, blk frm, pty lp, marly, carb lp. Fine Cuttings.</p>	<p>MRLST (95%) dk brngy, v dkgy, frm-v frm-brt, sblly-sply, rthy-gmy-sbwy, v calc, mod-hi cly cont / occ Sh pigs, r Fos frags, tr fnt yel flor, slow-fast string yel cuts, mod-brt yel resd ring. SH (5%) v dkgy, blk frm, pty lp, marly, carb lp. Very Fine Cuttings.</p>		



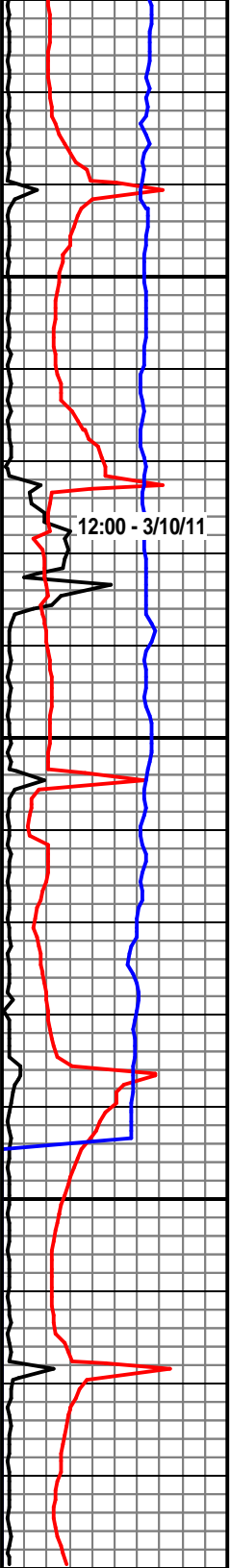




10862' MD	10894' MD	10925' MD	10957' MD	10988' MD	7300' TVD
Inc 90.0°	Inc 89.2°	Inc 88.7°	Inc 89.6°	Inc 89.5°	Inc 89.5°
AZ 336.7°	AZ 335.2°	AZ 334.3°	AZ 335.0°	AZ 334.5°	AZ 334.5°
TVD 7411.89'	TVD 7412.12'	TVD 7412.69'	TVD 7413.16'	TVD 7413.40'	TVD 7413.40'
VS 3676.75'	VS 3708.74'	VS 3739.69'	VS 3771.65'	VS 3802.61'	VS 3802.61'
MRL ST (95%) v dkgy, blk, occ dk brngy, brt-hd, blk-sply, sbwxy, mod-v calc, hi cly cont, carb, tr frt spty yel flr, med fast-slow string yel cuts, brt yel read ring, SH (5%). Fine Cuttings.					
MRL ST (100%) v dkgy, blk, dk brngy, hd-v frm-brt, sbly-sply, sbwxy, mod-v calc, hi cly cont, carb, tr Fos frags, tr frt yel flr, med fast-slow string yel cut, brt yel read ring, SH (17), BENT (Rare) gngy, rhy-stochy, brt yel mnt flr. Fine Cuttings.					
MRL ST (85%) v dkgy, dk brngy, v frm-hd, sply-sbly-sply, sbwxy tx, rhy ip, v calc, hi cly cont / occ Sh plys, tr frt spty yel flr, slow-fast string yel cuts, mod-brt yel read ring, SH (15%) v dkgy, blk, v frm, ply-sply, v calc, marly, BENT (Rare) gngy, brn. Fine Cuttings.					
MRL ST (85%) v dkgy, blk, v frm, p sply-sbly-sply, sbwxy tx, rhy ip, v calc, hi cly cont / occ Sh plys, tr frt spty yel flr, slow-fast string yel cuts, mod-brt yel read ring, SH (15%) v dkgy, blk, v frm, ply-sply, v calc, marly, BENT (Rare) gngy, brn. Fine Cuttings.					







SL 20R

11050

11100

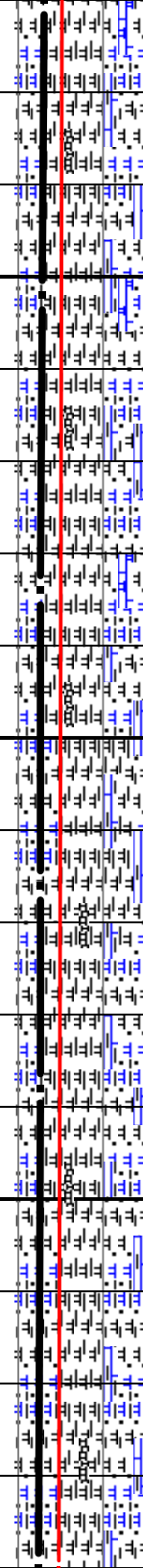
11150

11190

11240

MD	11052' MD	11084' MD	11116' MD	11138' MD	Projected to 11190' MD
Inc 89.0°	Inc 89.0°	Inc 90.2°	Inc 89.8°	Inc 89.5°	Inc 89.5°
AZ 334.3°	AZ 333.8°	AZ 334.4°	AZ 333.6°	AZ 333.6°	Az 333
TVD 7414.38'	TVD 7414.60'	TVD 7414.60'	TVD 7414.60'	TVD 7414.74'	VS 4004.22
VS 3866.51'	VS 3898.45'	VS 3898.45'	VS 3898.45'	VS 3952.35'	VS 4004.22

Reached 11190' MD  
14:00 3/10/11.



gy, dk brngy, v frm-hd, y, slowy txt, rthy ip, v calc, hi  
fiss, tr int sply yel flor, slow-fast  
od brt yel resid ring. SH (15%) v  
rthy-sply, v calc, many. BENT  
Fine Cuttings.

MRLST (90%) v dk brn gy, frm-n hd, pty, sply,  
loc fiss, rthy-tr sb wxy, ip w/mixn txt, micro lam,  
hi arg cont, v calc, ip shly gdg SH (10%) v dkgy,  
frm-hd, sply, fiss, m calc, No Flor, wk slw mlky -v  
slw sl strng cut, dl y/lgid resid ring Flor.

MRLST (100%) v dk brn gy, frm-n hd, pty, sply,  
loc fiss, rthy-tr sb wxy, ip w/mixn txt, micro lam,  
hi arg cont, v calc, ip shly gdg SH (5%) v dkgy,  
frm-hd, sply, fiss, m calc, No Flor, wk slw mlky -v  
slw sl strng cut, dl y/lgid resid ring Flor.

MRLST (100%) v dk brn gy, frm-n hd, pty, sply,  
loc fiss, rthy-tr sb wxy, ip w/mixn txt, micro lam,  
hi arg cont, v calc, ip shly gdg SH (5%) v dkgy,  
frm-hd, sply, fiss, m calc, No Flor, wk slw mlky -v  
slw sl strng cut, dl y/lgid resid ring Flor.

CG 1430u

CG 1427u

CG 1267u

CG 1362u

Mud @ 11136' WT 9.25 FV 40 P/V/P 13/11  
WL 4.0 PH 7.0 CI 500 Hd 140 Sol 6.59%

CG 1488u

STG

