



Scale: 4.72" / 100'
Measured Depth Log

Well Name	Badding 35N-2HZ		
Location	SECTION 35, T2N, R66W		
State	COLORADO	County	WELD
Country	USA	Rig Number	ENSIGN 145
API Number	0512338285	AFE #	2087153
Region	DJ BASIN	Field	WATTENBERG
Spud Date	12/30/2013	Drilling Completed	1/5/2014
Surface Coordinates	2411' FSL x 1381' FWL		
Bottom Hole Coordinates	SECTION 2, T1N, R66W 1' FSL x 1370' FWL		
Ground Elevation	5103'	K.B. Elevation	5116'
Logged Interval	6800'	To	15188'
		Total Depth	15188'
Formation	NIOBRARA B CHALK		
Type of Drilling Fluid	FW LSND		

Company Anadarko
Address 1099 18th STR
DENVER, CO 8

Name RHEAD CANNON
Company ANADARKO PER
Address 1099 18th STR
DENVER, CO 8

COLUMBINE LOGGING, INC
WELL-SITE GEOLOGISTS

Operator

3ET.
0202

Geologist

CN

ETROLEUM.

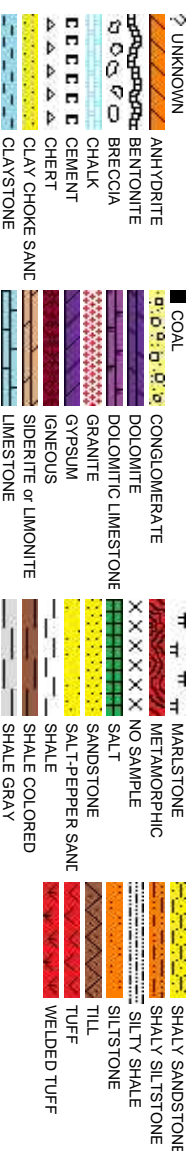
3ET.
0202

Other

2385 S. Lipan St.
Denver, CO 80223



















































JOEY LUCE
MARK NORRIS

Rock Types



Accessories

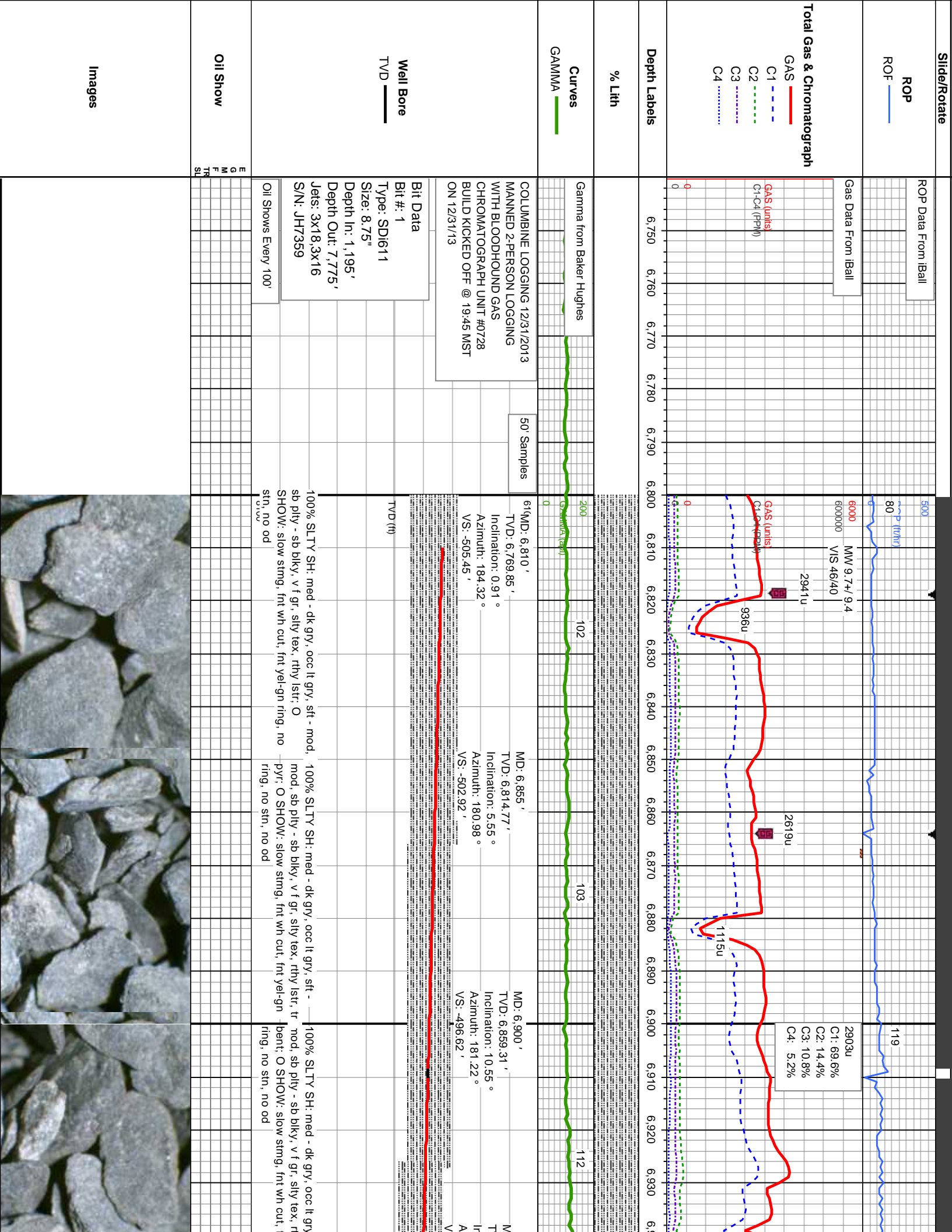
Fossils

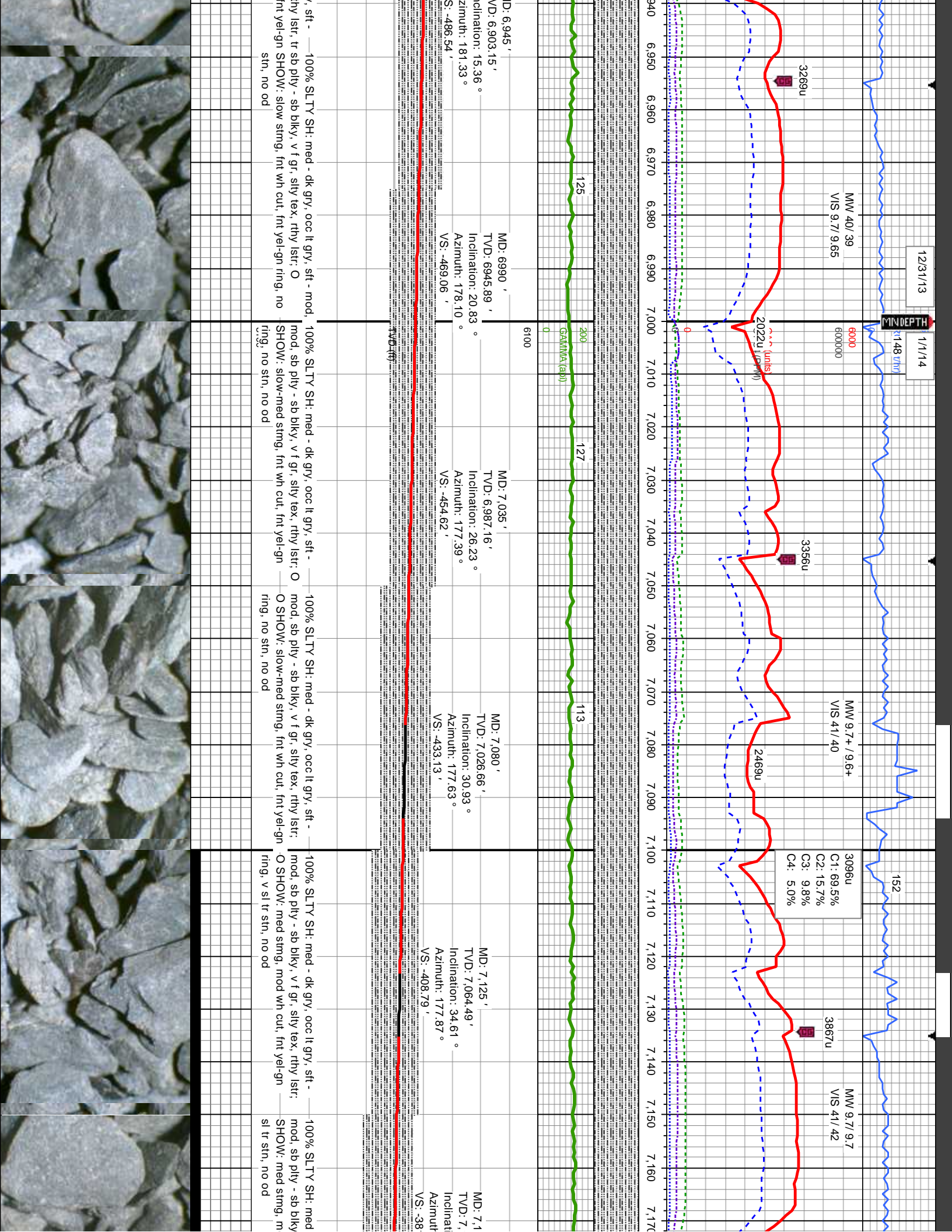
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|---|----------------|---|----------------------|---|-----------------|---|----------------------|---|-----------------------|
|  | Fossils |  | GASTROPOD |  | ARGILLITE GRAIN |  | HEAVY MINERAL |  | ANHYDRITE STRINGER |
|  | INOCERAMUS |  | OOOLITE |  | B BENTONITE |  | KAOLIN |  | BENTONITE STRINGER |
|  | ALGAE |  | BITUMENOUS SUBSTANCE |  | MARLSTONE |  | COAL STRINGER |  | DOLOMITE STRINGER |
|  | AMPHIPORA |  | BRECCIA FRAGMENTS |  | MICACEOUS |  | GYPSUM STRINGER |  | LIMESTONE STRINGER |
|  | BELEMNITE |  | CARBONACEOUS FLAKES |  | NODULES |  | PHOSPHATE PELLETS |  | MARLSTONE (CALC) STRG |
|  | BIOCLASTIC |  | CHERT |  | PYRITE |  | MARLSTONE (DOL) STRG |  | SANDSTONE STRINGER |
|  | BRACHIOPOD |  | COAL - THIN BEDS |  | SANDY |  | SHALE STRINGER |  | SILTSTONE STRINGER |
|  | BRYOZOA |  | DOLOMITIC |  | SILTY | | | | |
|  | CEPHALOPOD |  | FERRUGINOUS PELLET | | | | | | |
|  | CORAL | | | | | | | | |
|  | CRINOID | | | | | | | | |
|  | ECHINOID | | | | | | | | |
|  | FISH | | | | | | | | |
|  | FORAMINIFERA | | | | | | | | |
|  | F FOSSIL |  | ANHYDRITE |  | GLAUCCONITE |  | Stringer | | |
| | |  | ARGILLACEOUS |  | GYPSIFEROUS | | | | |

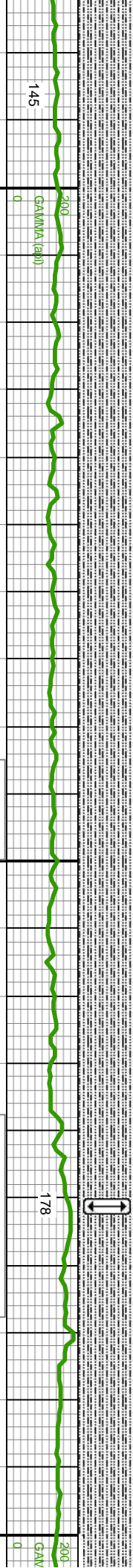
Springer

Other Symbols

Oil Show	P PINPOINT V VUGGY	DST INTERVAL FAULT FORMATION TOP GAS SHOW OIL SHOW	WIREFLINE TESTED - LEFT WIREFLINE TESTED - RT DRILL STEM TEST MN DEPTH MN DEPTH UP MN DEPTH DOWN	E EARTHY FX FINELYXLN GS GRAINSTONE L LITHOGRAPHIC MX MICROXLN MS MUDSTONE
Engineering	D DEAD ● EVEN ○ QUESTIONABLE ● SPOTTED STAINING ▲ CONNECTION (UP)	BIT GAS SHOW OIL SHOW	Rounding MN DEPTH UP MN DEPTH DOWN	
Porosity	▼ CONNECTION (DOWN) E EARTHY F FENESTRAL F FRACTURE X INTERCRYSTALLINE Ø INTERPOULTIC J MOLDIC O ORGANIC	CONNECTION GAS CONNECTION GAS (LEFT) TRIP GAS TRIP GAS (LEFT) DOWN TIME GAS DOWN TIME GAS (LEFT) CORE - LOST CORE - RECOVERED	▲ ANGULAR R ROUNDED B SUBANG M SUBRND NORMAL FAULT OVERTURNED STRATA REVERSE FAULT CASING SIDEWALL CORE (LEFT) SIDEWALL CORE (RIGHT) SLIDE SURVEY	PS PACKSTONE WS WACKSTONE Sorting M MODERATE P POOR W WELL
			Textures BS BOUNDSTONE C CHALKY CX CRYPTOXLN	

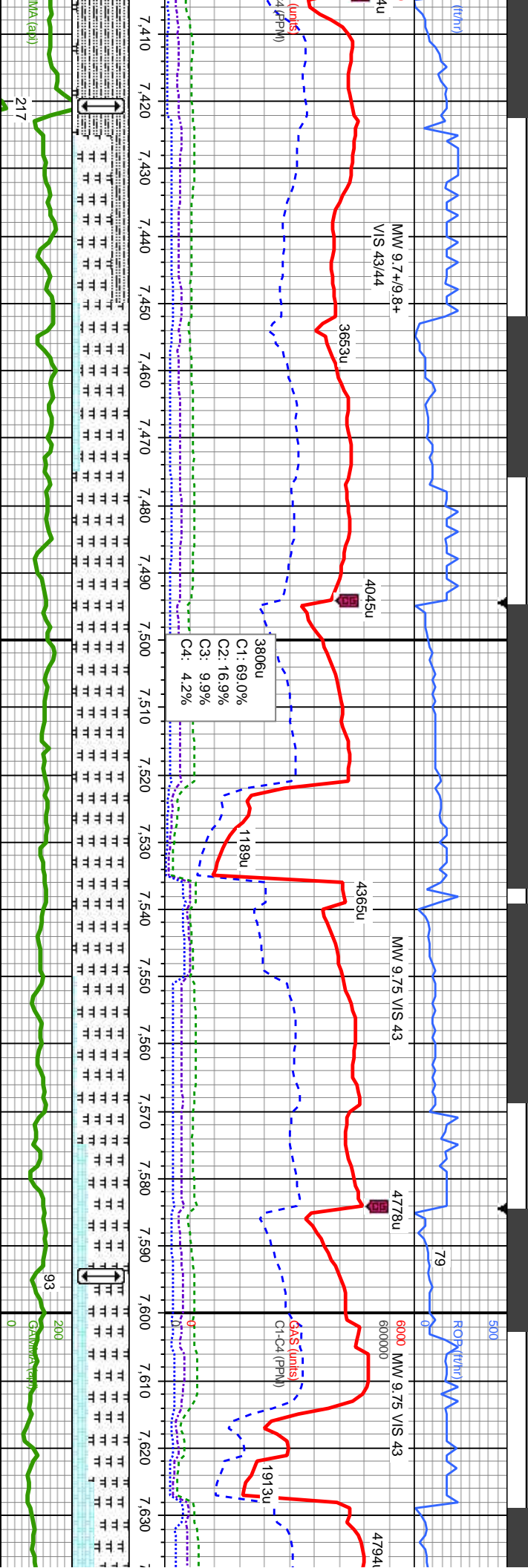






Logger Top Sharon Springs
7351' MD/7221' TVD

	10-6	10-7	10-8	10-9	10-10	10-11	10-12	10-13	10-14	10-15	10-16	10-17	10-18	10-19	10-20	10-21	10-22	10-23	10-24	10-25	10-26	10-27	10-28	10-29	10-30	10-31	10-32	10-33	10-34	10-35	10-36	10-37	10-38	10-39	10-40	10-41	10-42	10-43	10-44	10-45	10-46	10-47	10-48	10-49	10-50	10-51	10-52	10-53	10-54	10-55	10-56	10-57	10-58	10-59	10-60	10-61	10-62	10-63	10-64	10-65	10-66	10-67	10-68	10-69	10-70	10-71	10-72	10-73	10-74	10-75	10-76	10-77	10-78	10-79	10-80	10-81	10-82	10-83	10-84	10-85	10-86	10-87	10-88	10-89	10-90	10-91	10-92	10-93	10-94	10-95	10-96	10-97	10-98	10-99	10-100	10-101	10-102	10-103	10-104	10-105	10-106	10-107	10-108	10-109	10-110	10-111	10-112	10-113	10-114	10-115	10-116	10-117	10-118	10-119	10-120	10-121	10-122	10-123	10-124	10-125	10-126	10-127	10-128	10-129	10-130	10-131	10-132	10-133	10-134	10-135	10-136	10-137	10-138	10-139	10-140	10-141	10-142	10-143	10-144	10-145	10-146	10-147	10-148	10-149	10-150	10-151	10-152	10-153	10-154	10-155	10-156	10-157	10-158	10-159	10-160	10-161	10-162	10-163	10-164	10-165	10-166	10-167	10-168	10-169	10-170	10-171	10-172	10-173	10-174	10-175	10-176	10-177	10-178	10-179	10-180	10-181	10-182	10-183	10-184	10-185	10-186	10-187	10-188	10-189	10-190	10-191	10-192	10-193	10-194	10-195	10-196	10-197	10-198	10-199	10-200	10-201	10-202	10-203	10-204	10-205	10-206	10-207	10-208	10-209	10-210	10-211	10-212	10-213	10-214	10-215	10-216	10-217	10-218	10-219	10-220	10-221	10-222	10-223	10-224	10-225	10-226	10-227	10-228	10-229	10-230	10-231	10-232	10-233	10-234	10-235	10-236	10-237	10-238	10-239	10-240	10-241	10-242	10-243	10-244	10-245	10-246	10-247	10-248	10-249	10-250	10-251	10-252	10-253	10-254	10-255	10-256	10-257	10-258	10-259	10-260	10-261	10-262	10-263	10-264	10-265	10-266	10-267	10-268	10-269	10-270	10-271	10-272	10-273	10-274	10-275	10-276	10-277	10-278	10-279	10-280	10-281	10-282	10-283	10-284	10-285	10-286	10-287	10-288	10-289	10-290	10-291	10-292	10-293	10-294	10-295	10-296	10-297	10-298	10-299	10-300	10-301	10-302	10-303	10-304	10-305	10-306	10-307	10-308	10-309	10-310	10-311	10-312	10-313	10-314	10-315	10-316	10-317	10-318	10-319	10-320	10-321	10-322	10-323	10-324	10-325	10-326	10-327	10-328	10-329	10-330	10-331	10-332	10-333	10-334	10-335	10-336	10-337	10-338	10-339	10-340	10-341	10-342	10-343	10-344	10-345	10-346	10-347	10-348	10-349	10-350	10-351	10-352	10-353	10-354	10-355	10-356	10-357	10-358	10-359	10-360	10-361	10-362	10-363	10-364	10-365	10-366	10-367	10-368	10-369	10-370	10-371	10-372	10-373	10-374	10-375	10-376	10-377	10-378	10-379	10-380	10-381	10-382	10-383	10-384	10-385</
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Logger Top Niobrara
7421 MD/7257' TVD

MD: 7,441'
TVD: 7,267.73'
Inclination: 61.1°
Azimuth: 179.49°
VS: -190.65'

MD: 7,486'
TVD: 7,288.53'
Inclination: 63.84°
Azimuth: 177.58°
VS: -130.76'

MD: 7,531'
TVD: 7,306.52'
Inclination: 69.02°
Azimuth: 178.06°
VS: -89.56'

MD: 7,576'
TVD: 7,320.7'
Inclination: 74.23°
Azimuth: 178.32°
VS: -46.89'

MD: 7,621'
TVD: 7,331.73'
Inclination: 77.39°
Azimuth: 178.95°
VS: -3.28'

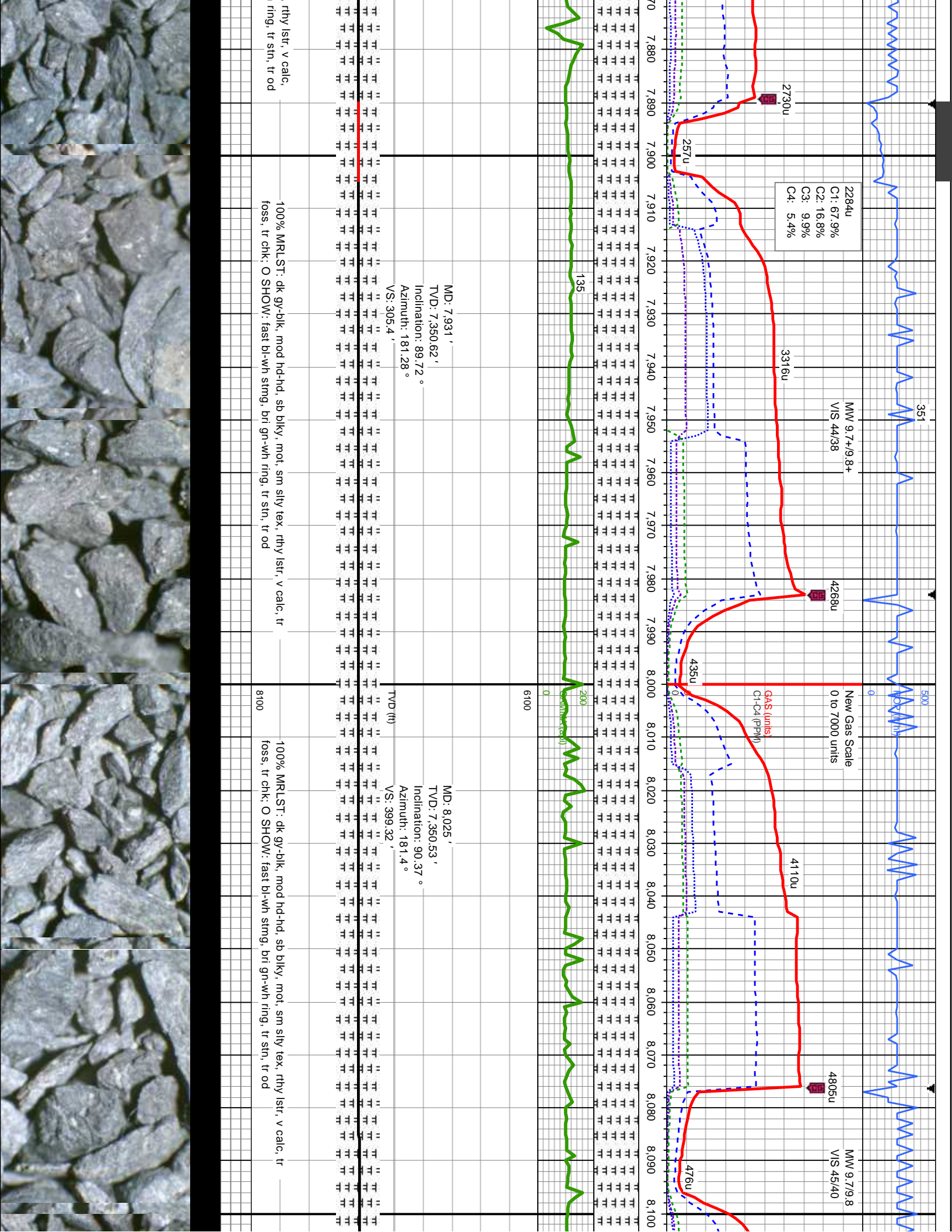
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sm silty tex, rthy lstr, v calc, dissim pyr, tr
0-10% CHK: lt-med gy, gy brn, occ wh, mot,
hd, sb ply-sb blk, rthy-wxy lstr, v calc
SLTY SH: dk gy-blk, mod sft-hd, brt ip,
O SHOW: med-fast
bl-wh cut, bri yel-gn ring, tr stn, fnt od

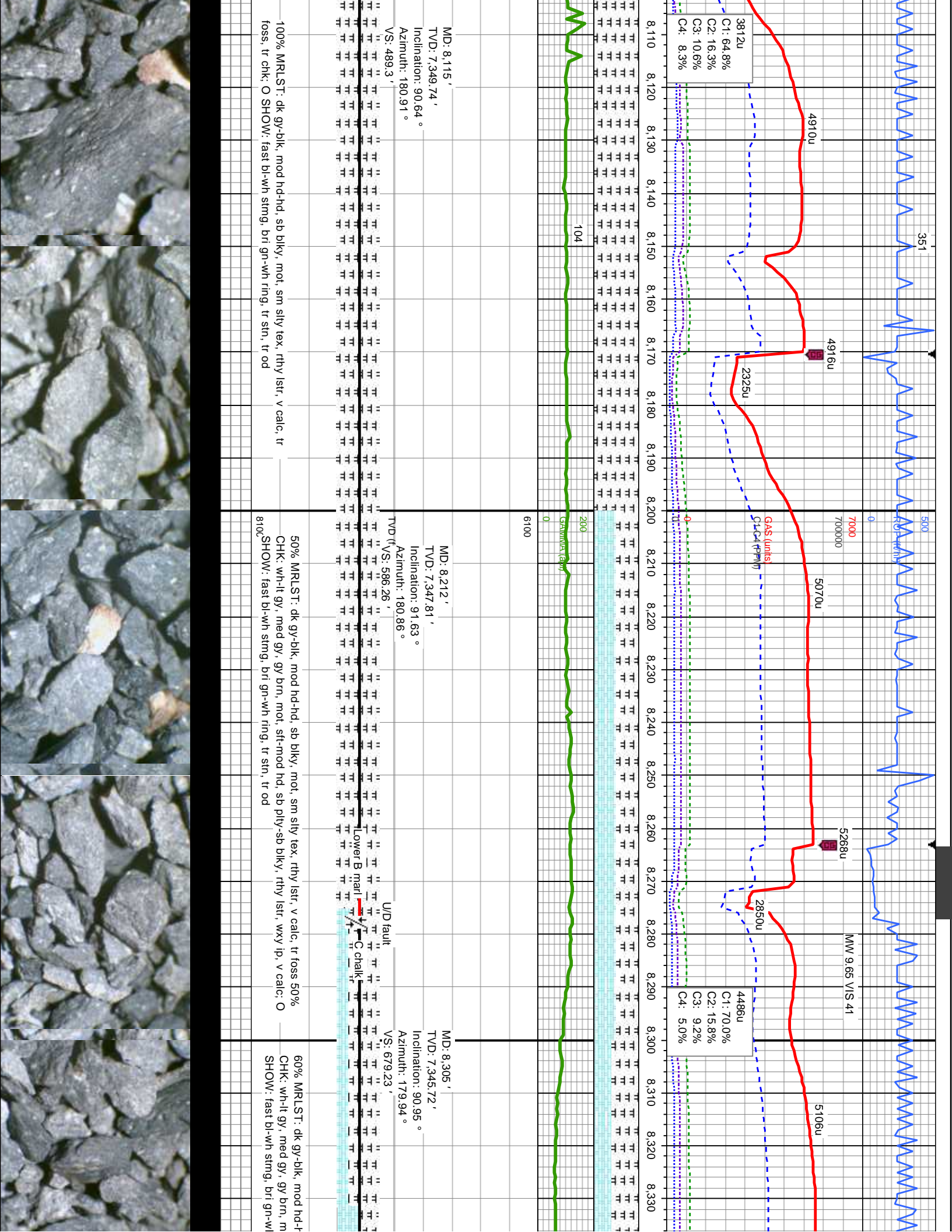
85-100% MRLST: dk gy-blk, mod hd-hd, sb blk,
mot, sm silty tex, rthy lstr, v calc, tr bent, dissim
pyr 15-0% CHK: lt-med gy, gy brn, occ wh, mot,
sft-mod hd, sb ply-sb blk, rthy-wxy lstr, v calc, mot,
O SHOW: fast stmg, bl-wh cut, bri gn-wh ring, tr
stn, fnt od

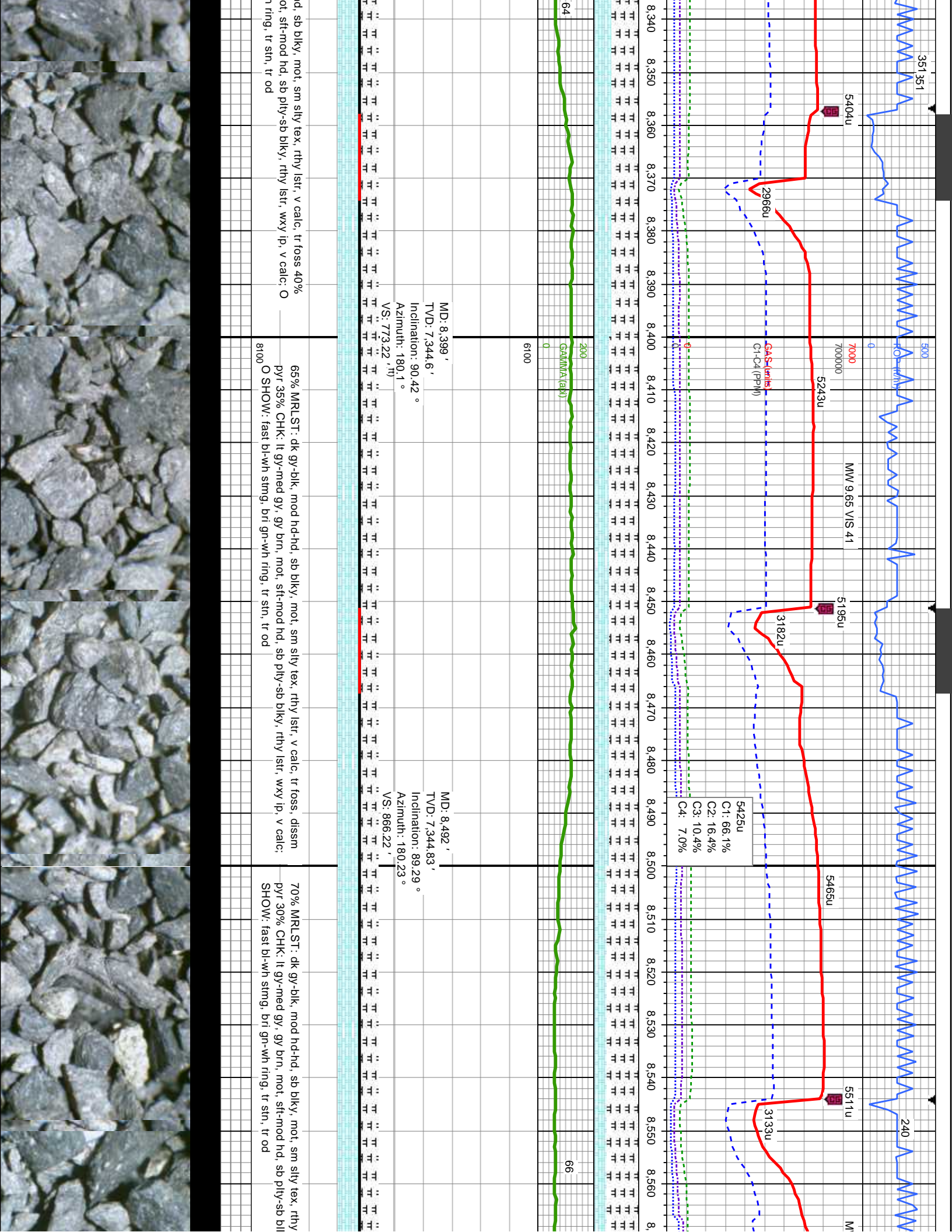
100% MRLST: dk gy-blk, mod hd-hd, sb ply-blk,
m silty tex, rthy lstr, v calc, tr bent, dissim
pyr 10-30% CHK: lt-med gy, gy brn, wh, mot, sft-mod
hd, sb ply-sb blk, rthy-wxy lstr, v calc, O SHOW: hd,
fast bl-wh stmg, bri gn-wh ring, tr stn, tr od

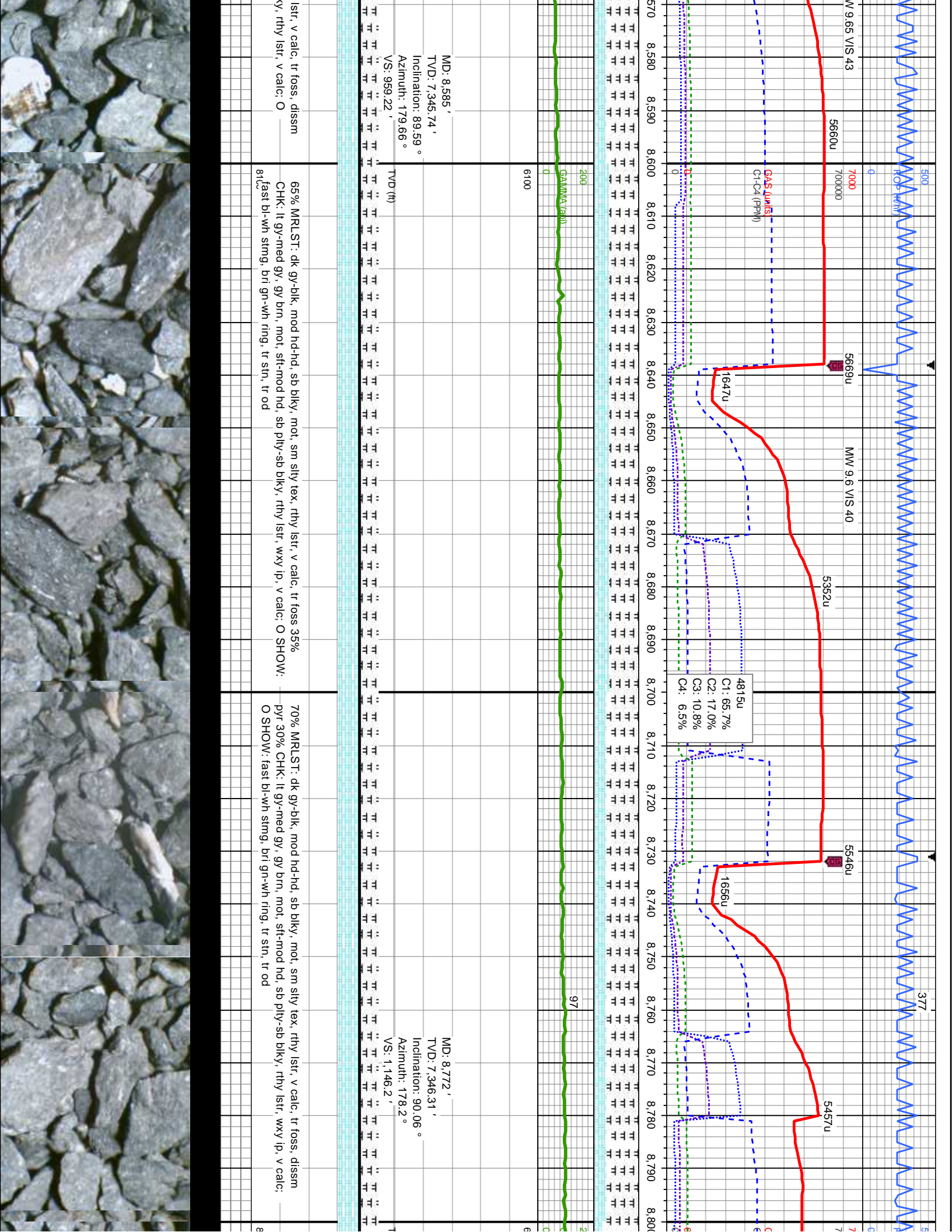
90-70% MRLST: dk gy-blk, mod hd-hd, sb blk, m
silty tex, rthy lstr, v calc, dissim pyr, tr bent
sm silty tex, rthy lstr, v calc, dissim pyr,
10-30% CHK: lt-med gy, gy brn, wh, mot, sft-mod
30-40% CHK: lt-med gy, gy brn, wh, m
hd, sb ply-sb blk, rthy-wxy lstr, v calc
O SHOW: hd, sb ply-sb blk, rthy-wxy lstr, v calc
fast bl-wh stmg, bri gn-wh ring, tr stn, tr od

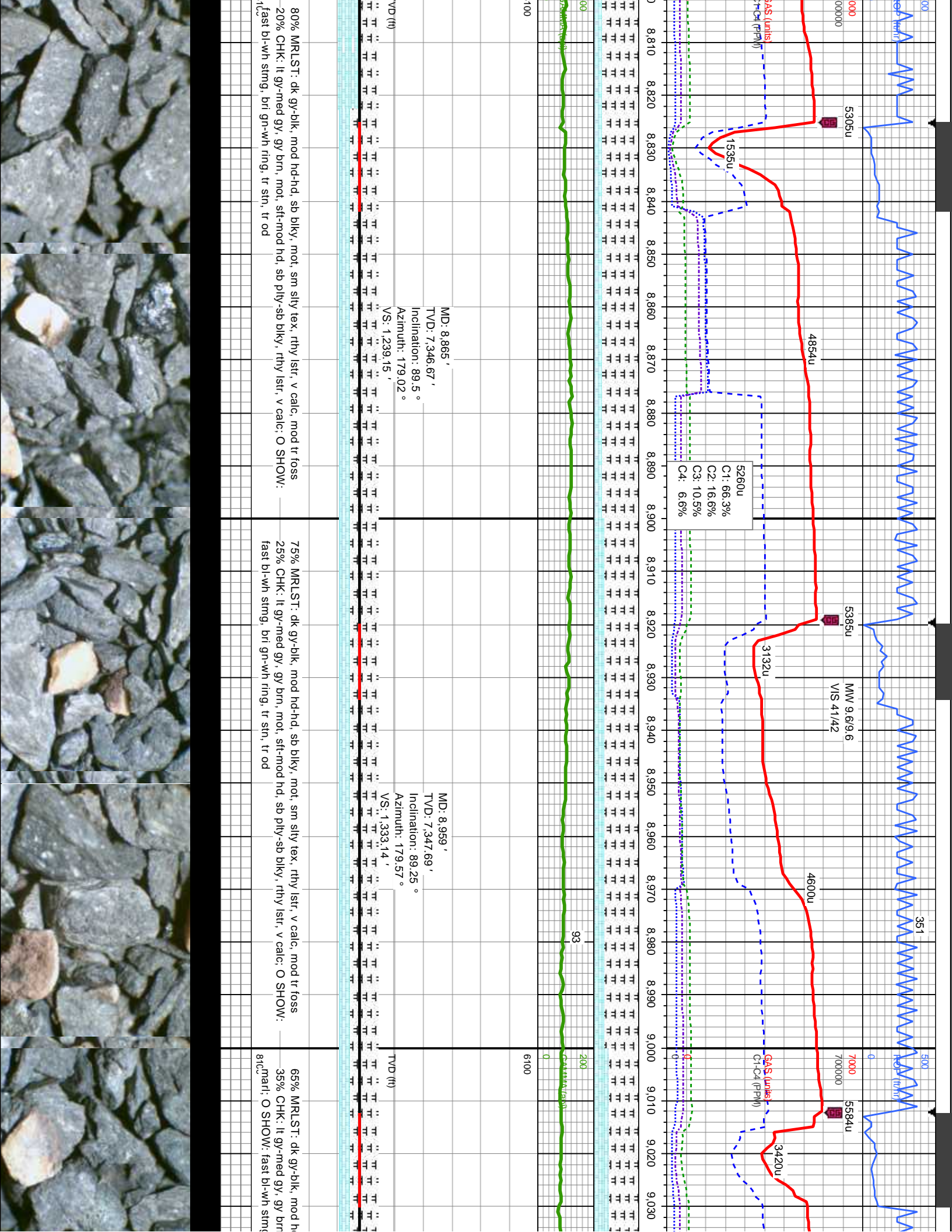
Logger Top Niobrara B Chaik
MD 7594/TVD 7325'

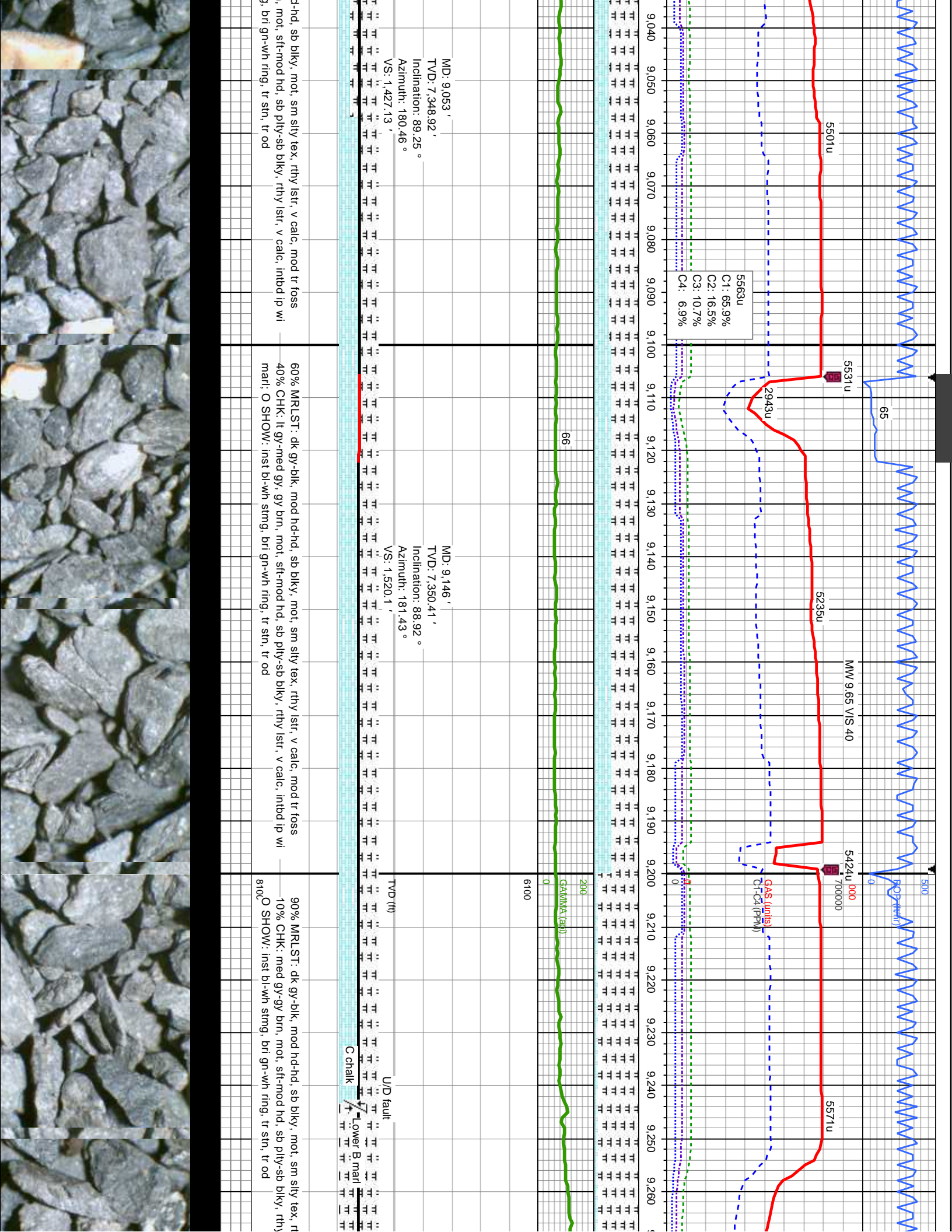


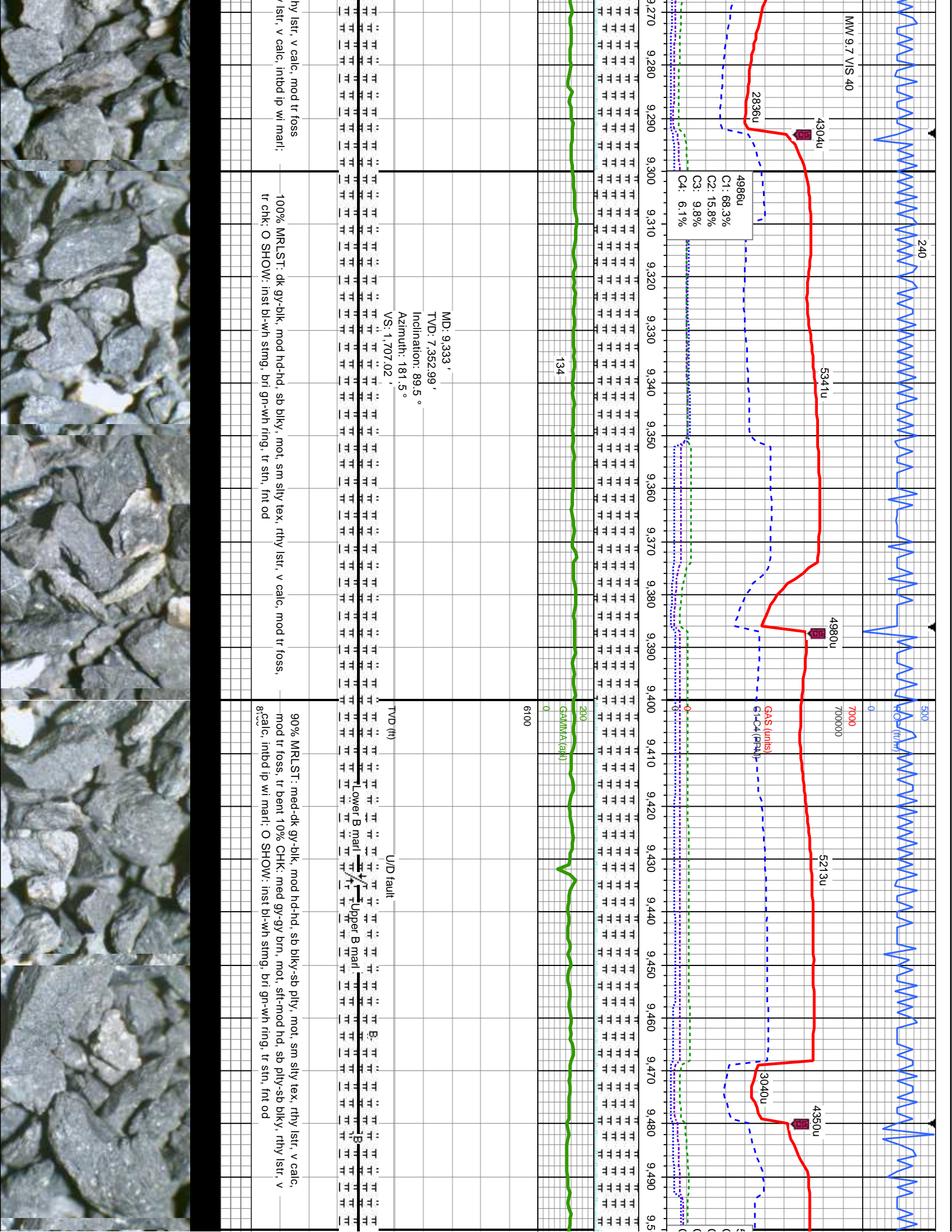


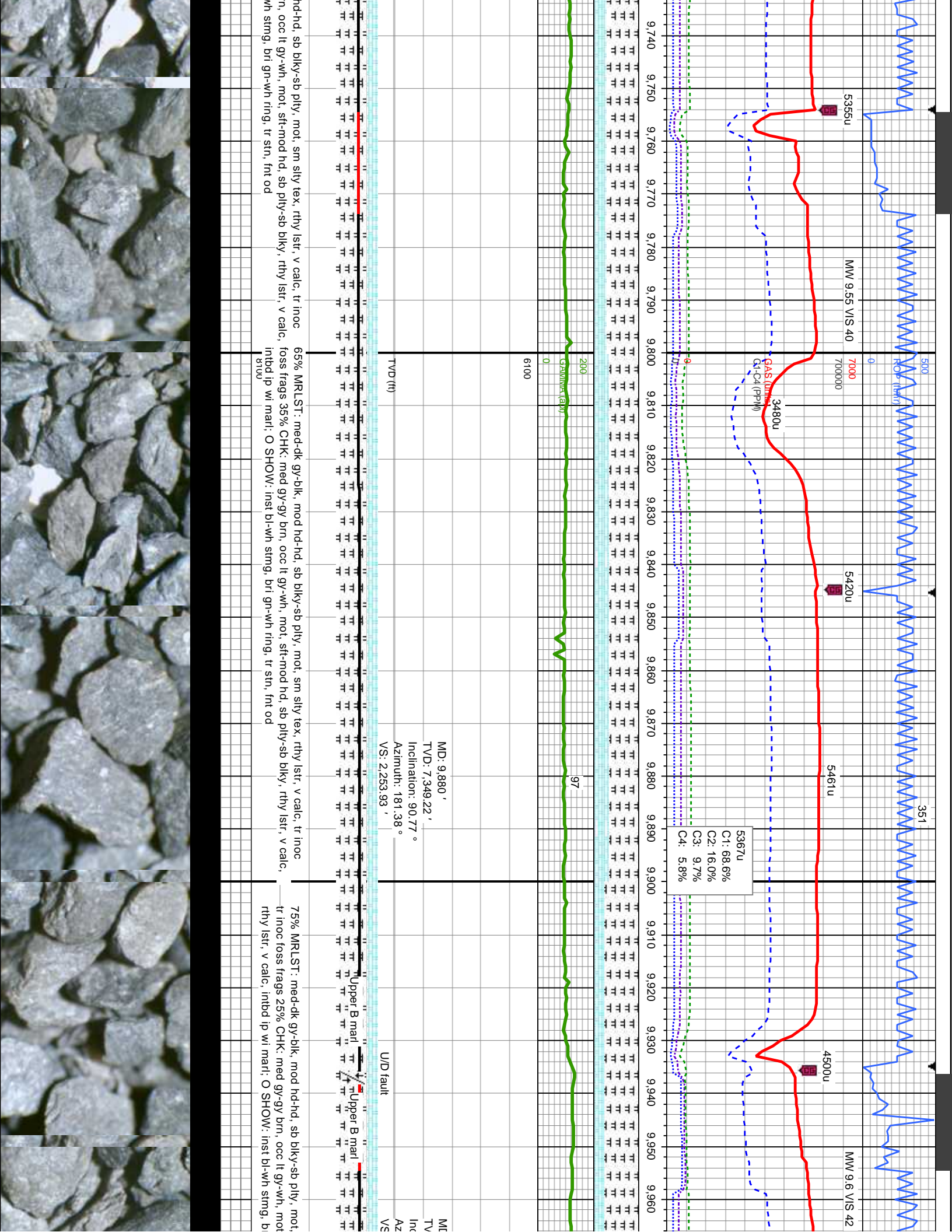


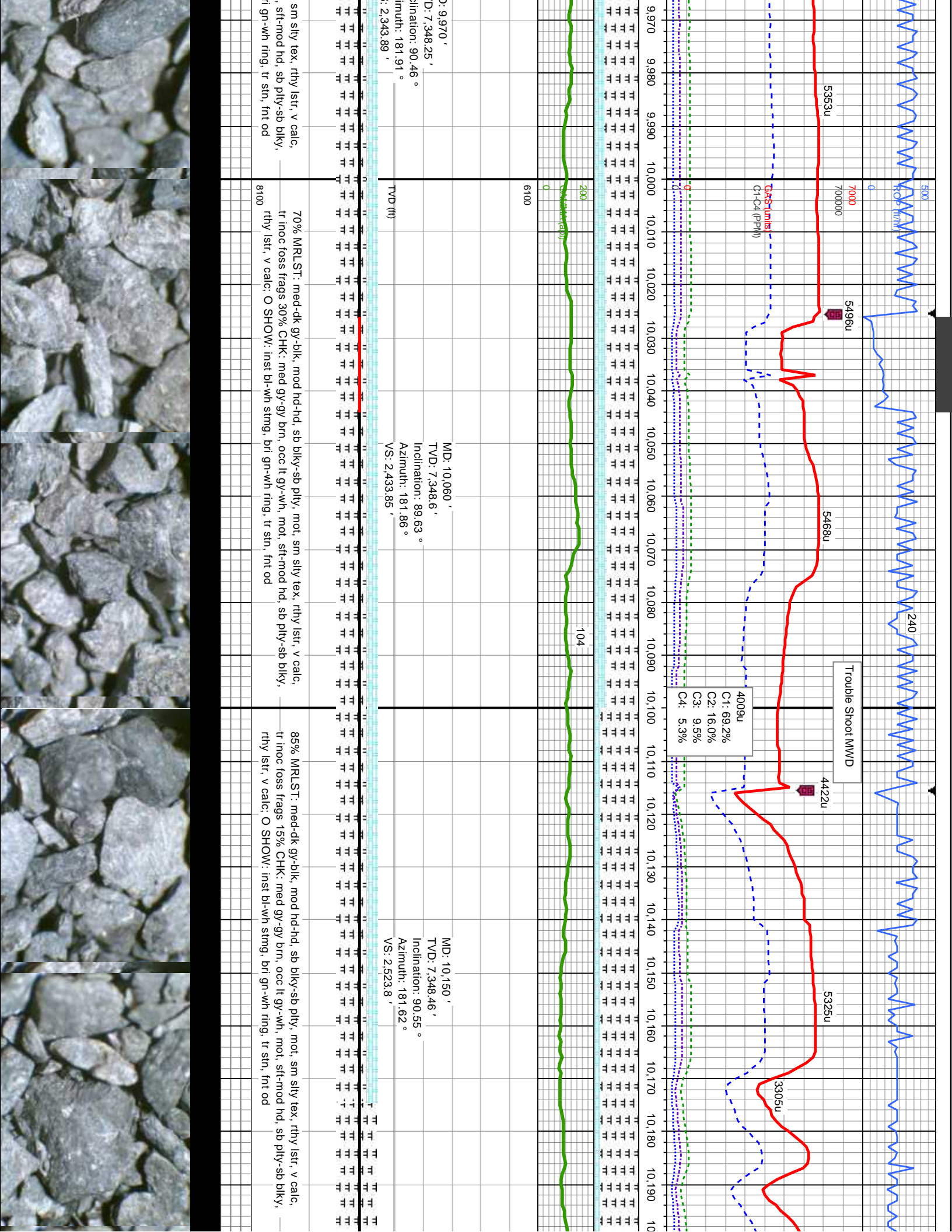


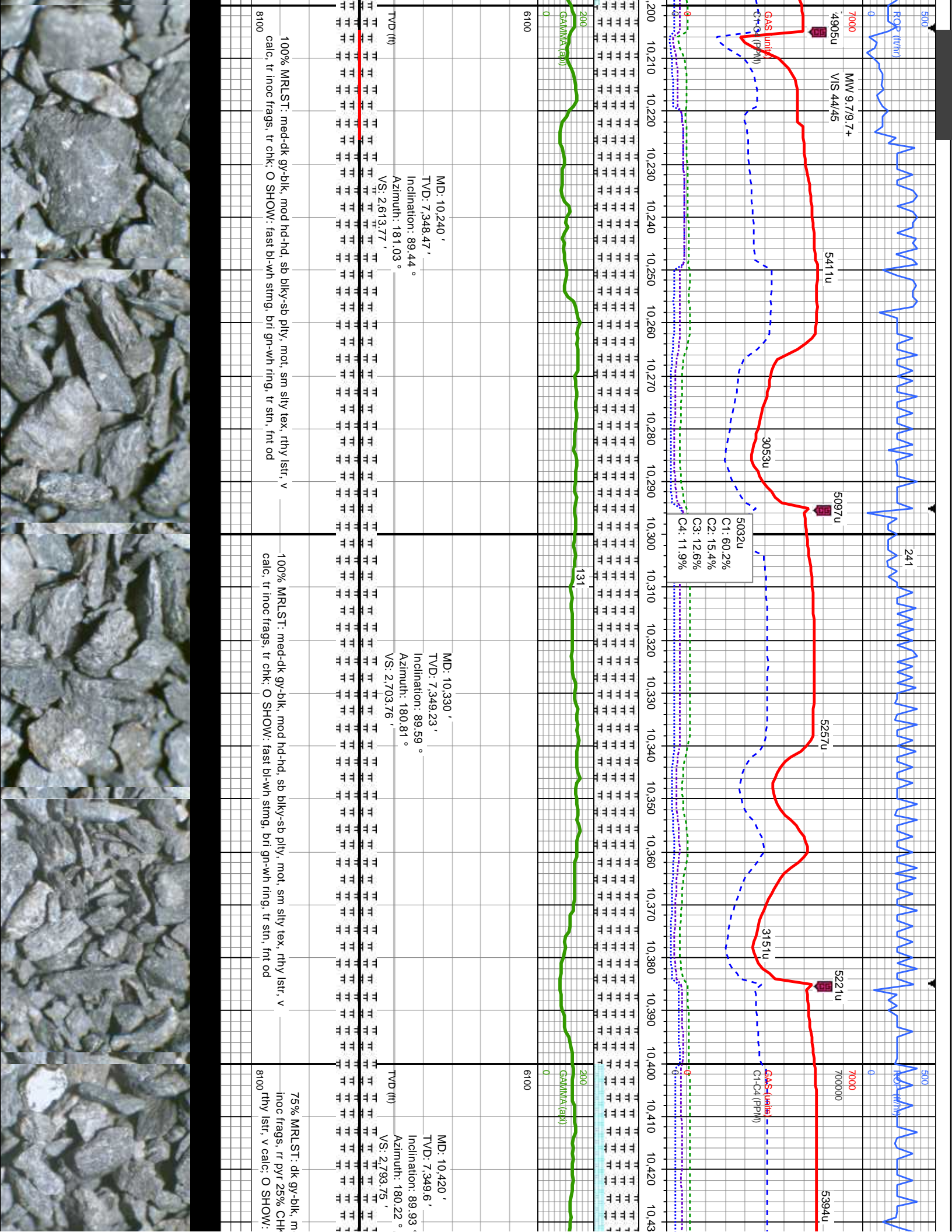


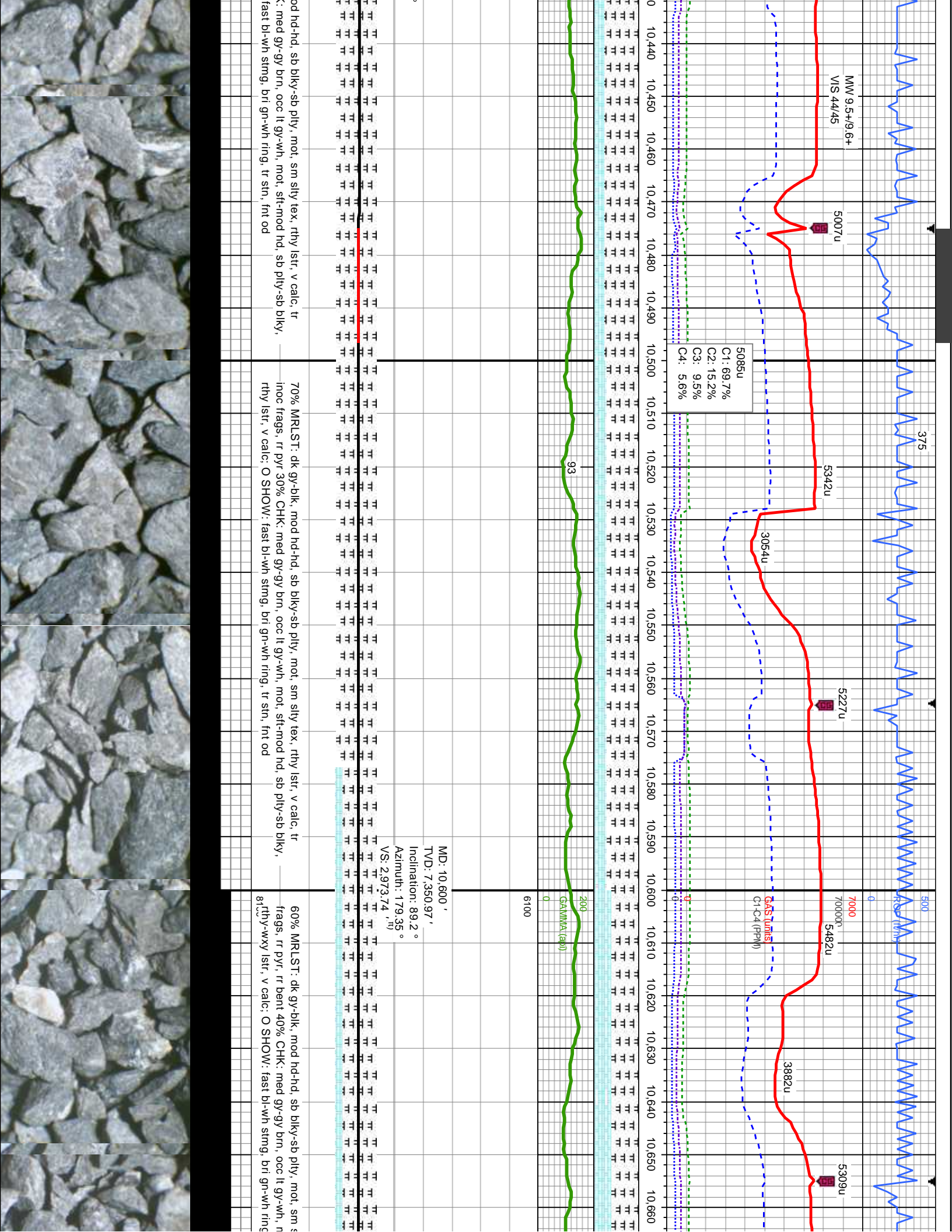


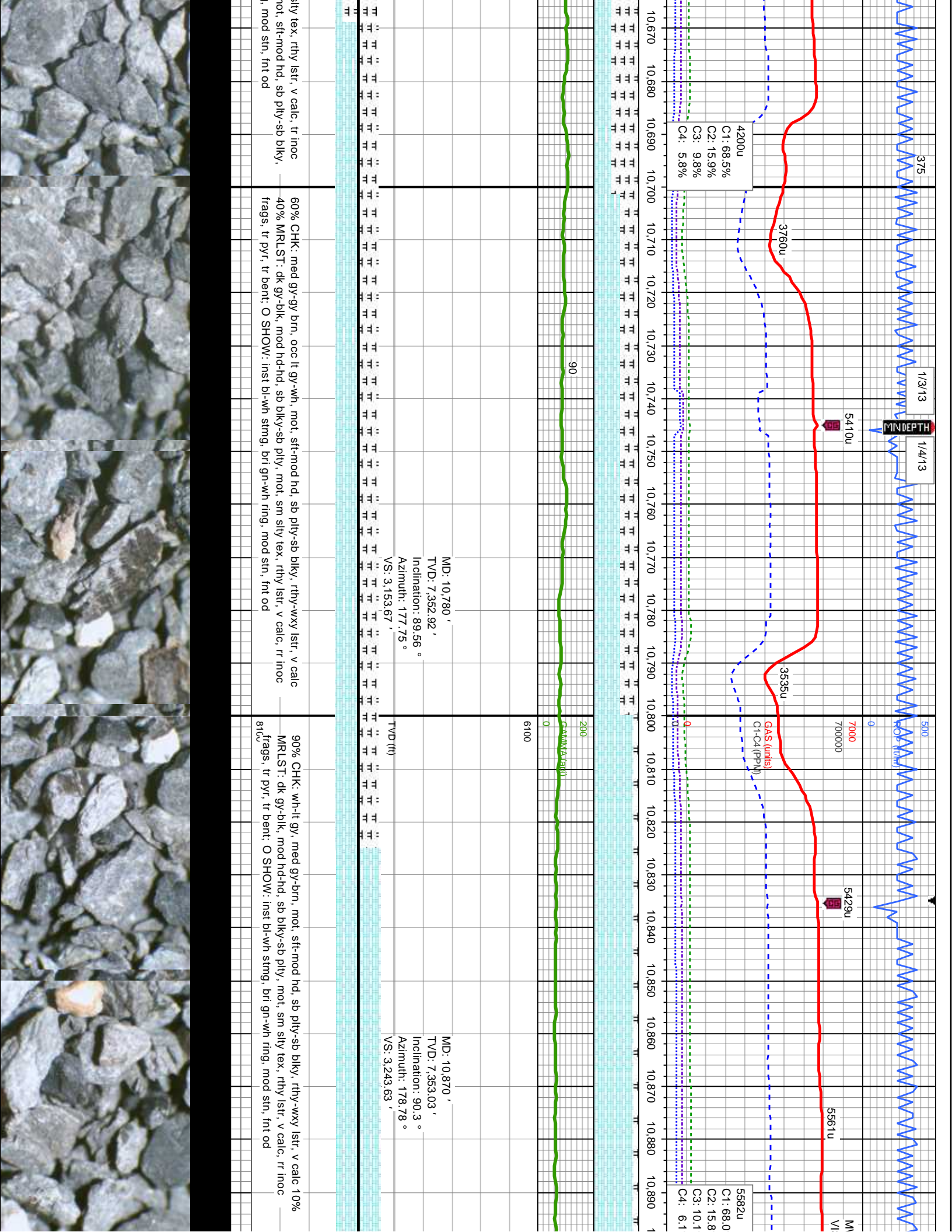


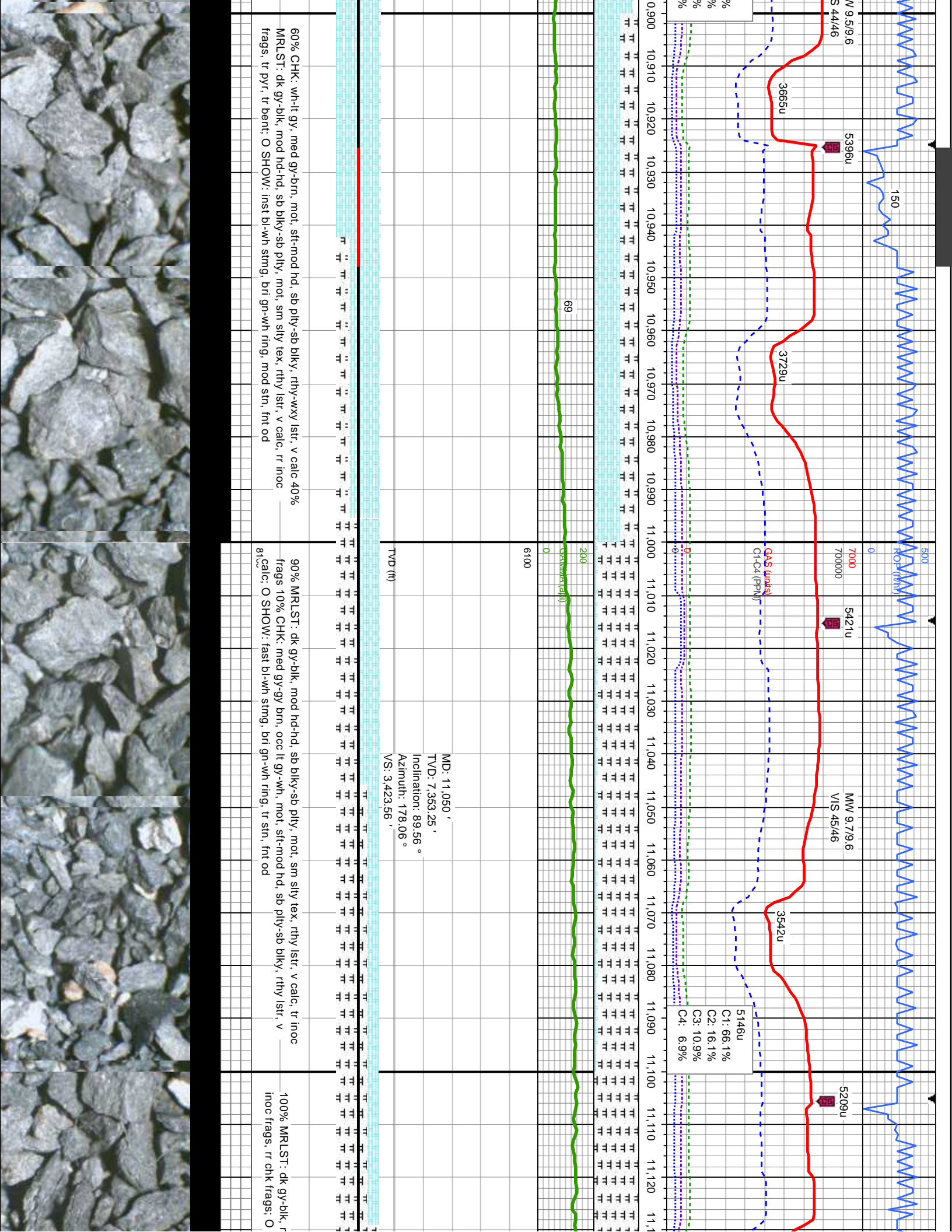


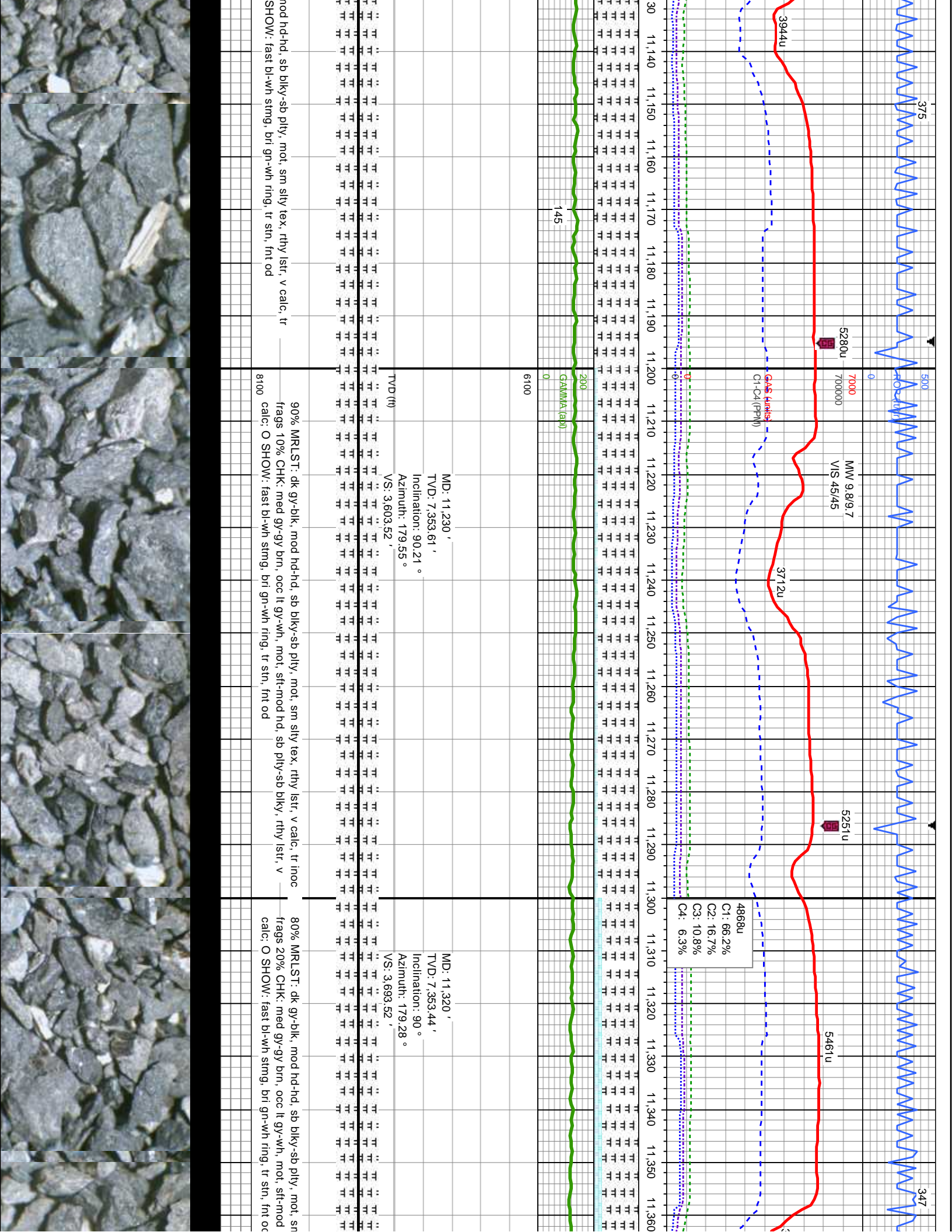


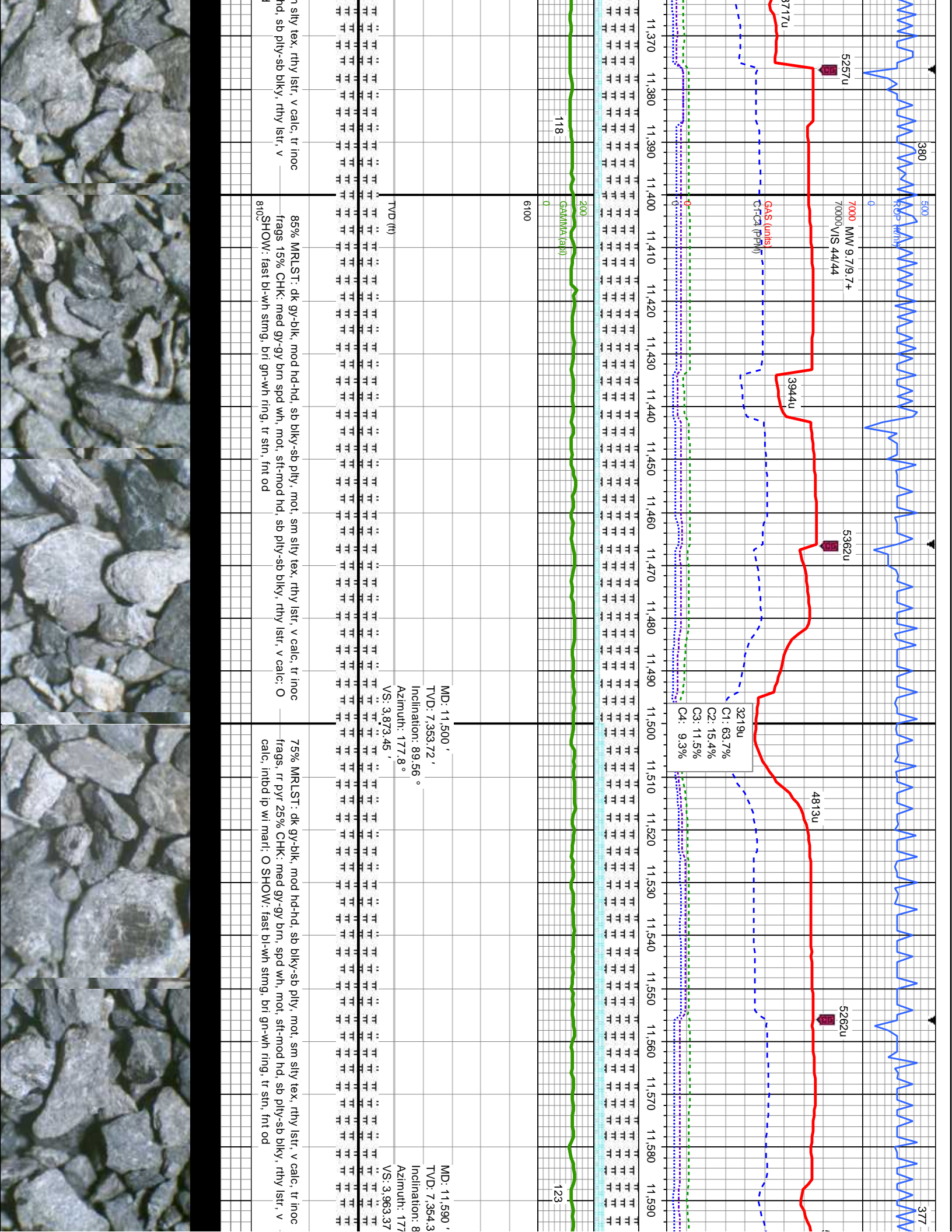


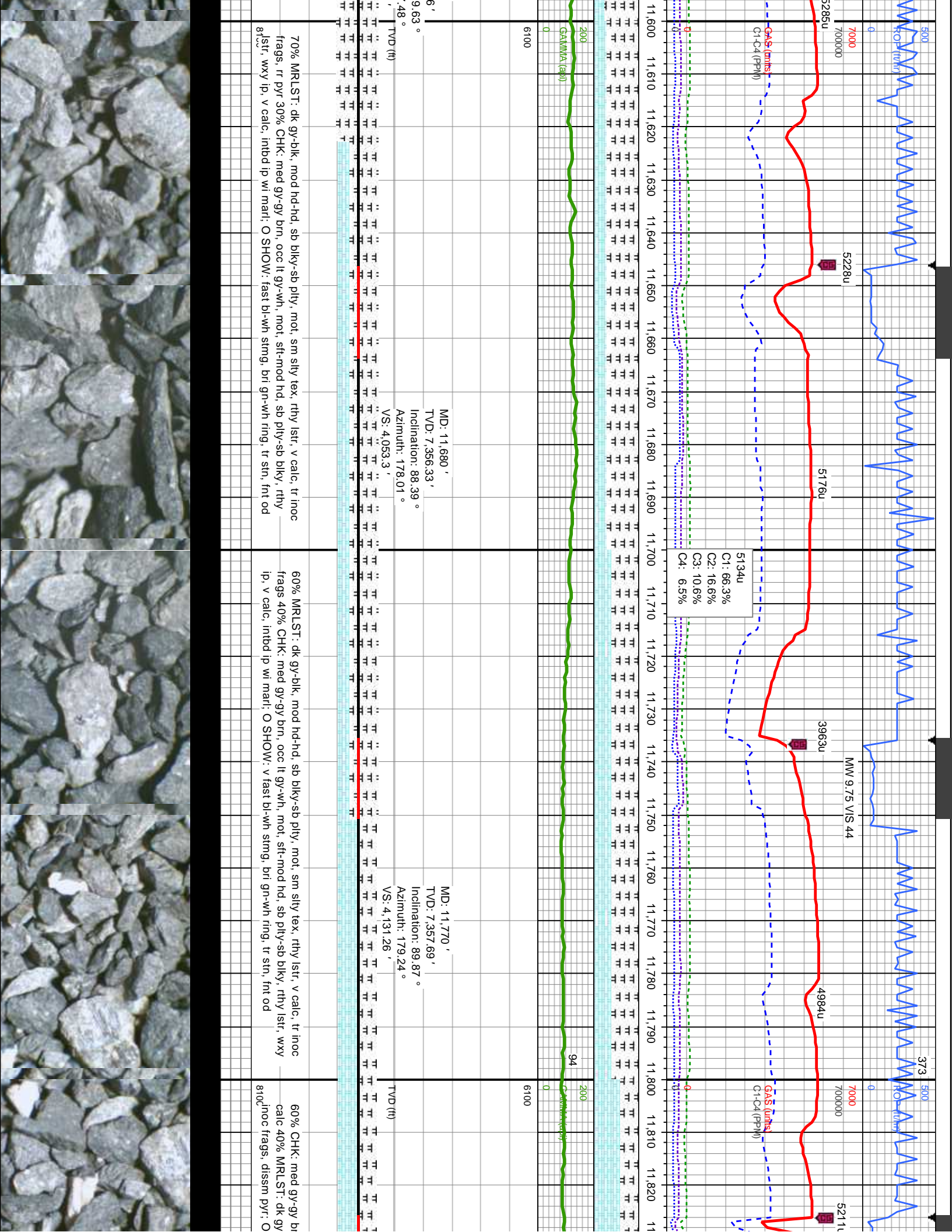


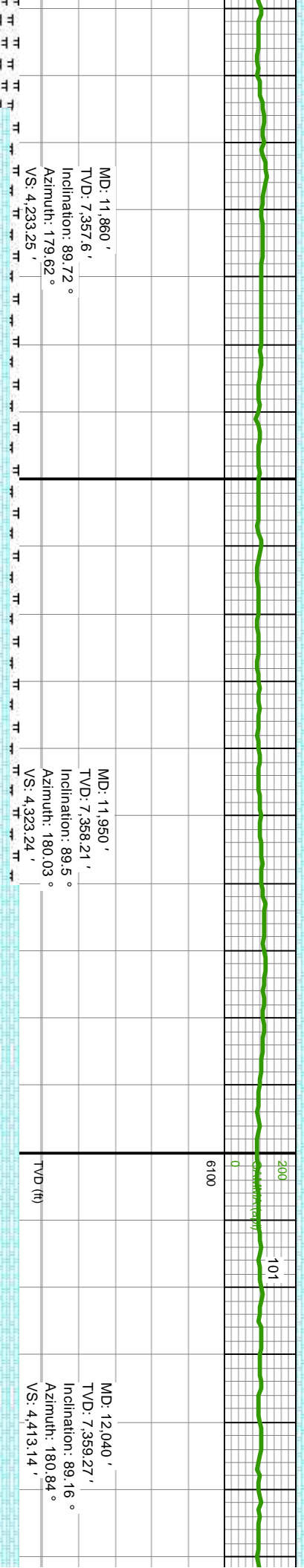
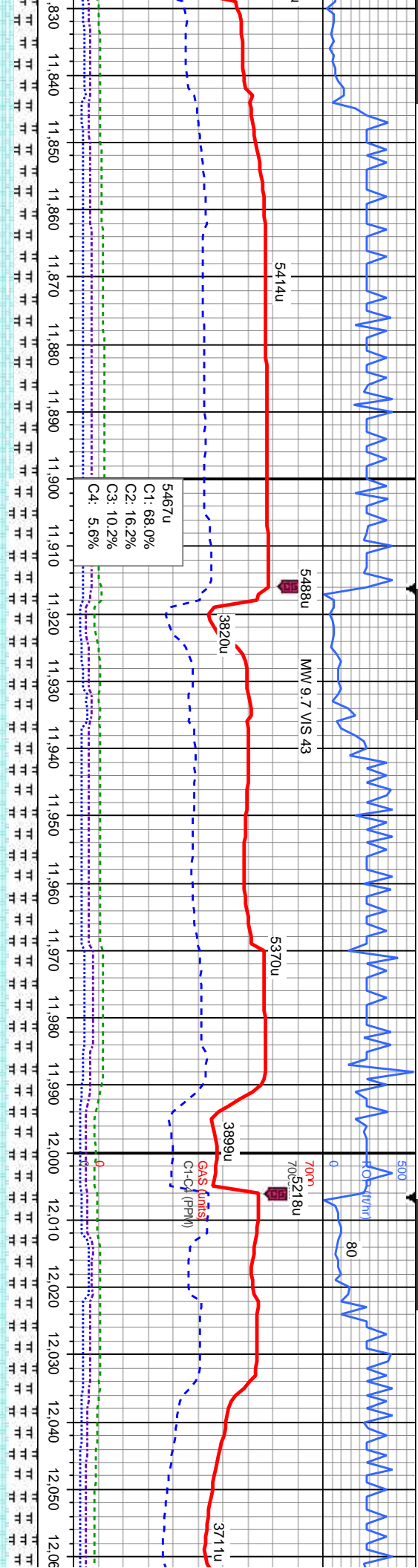






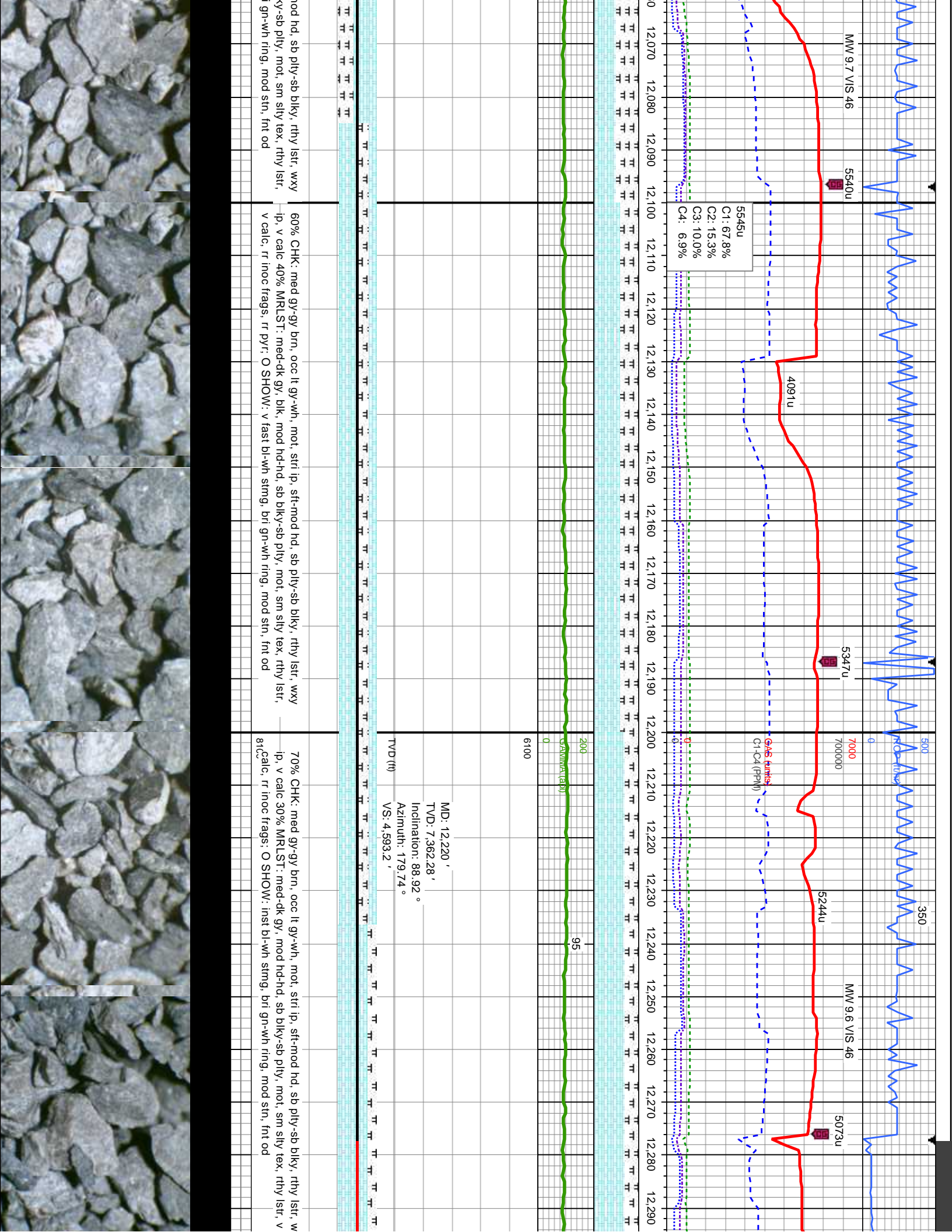


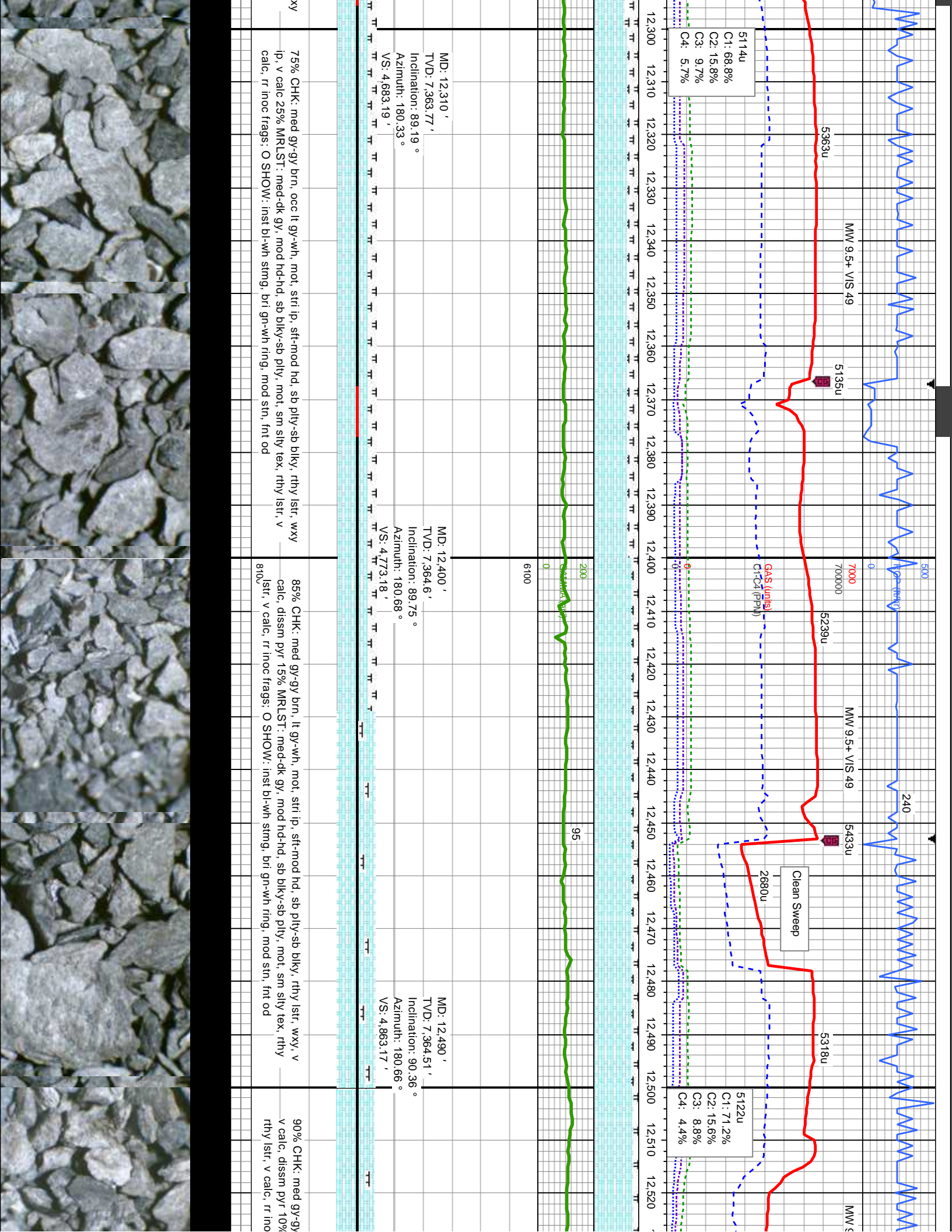


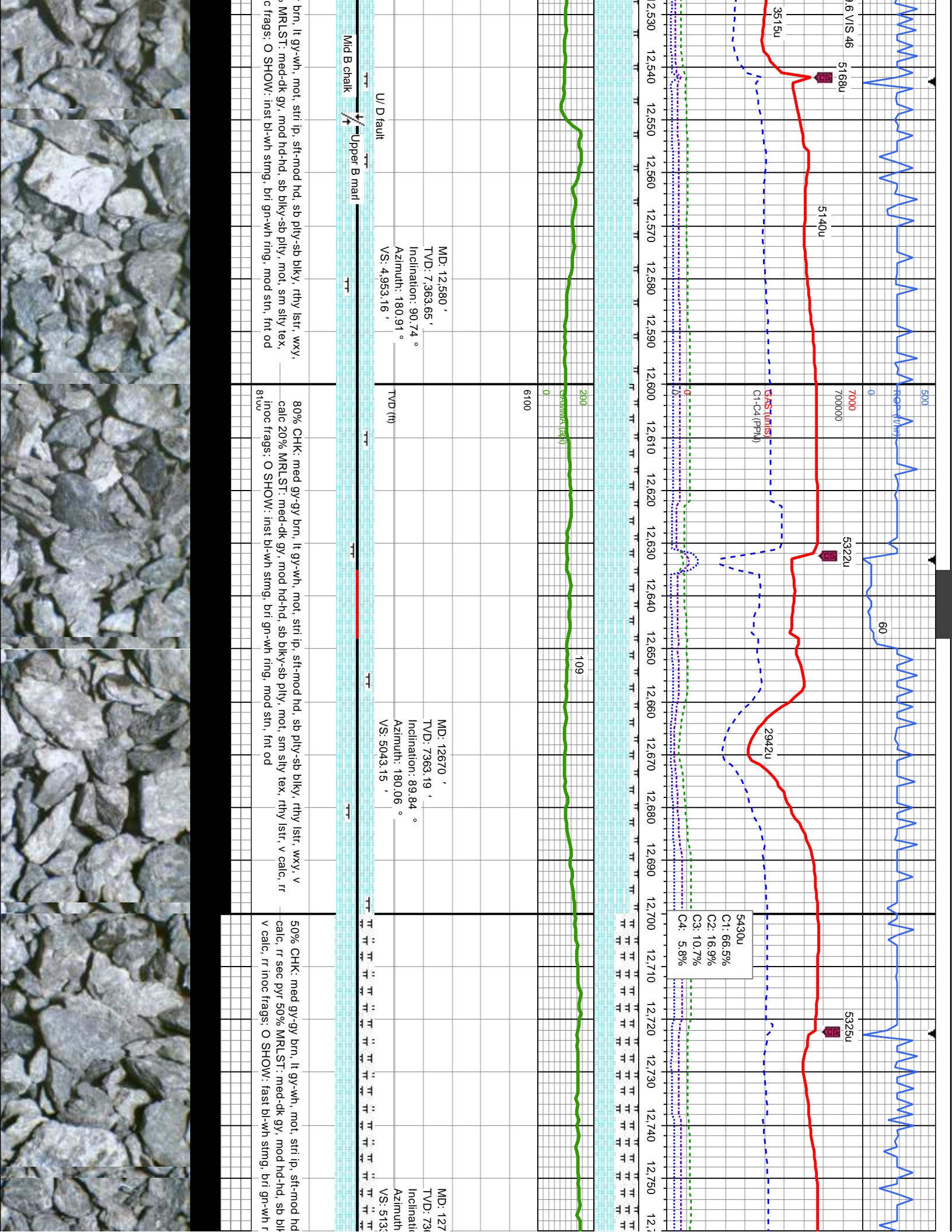


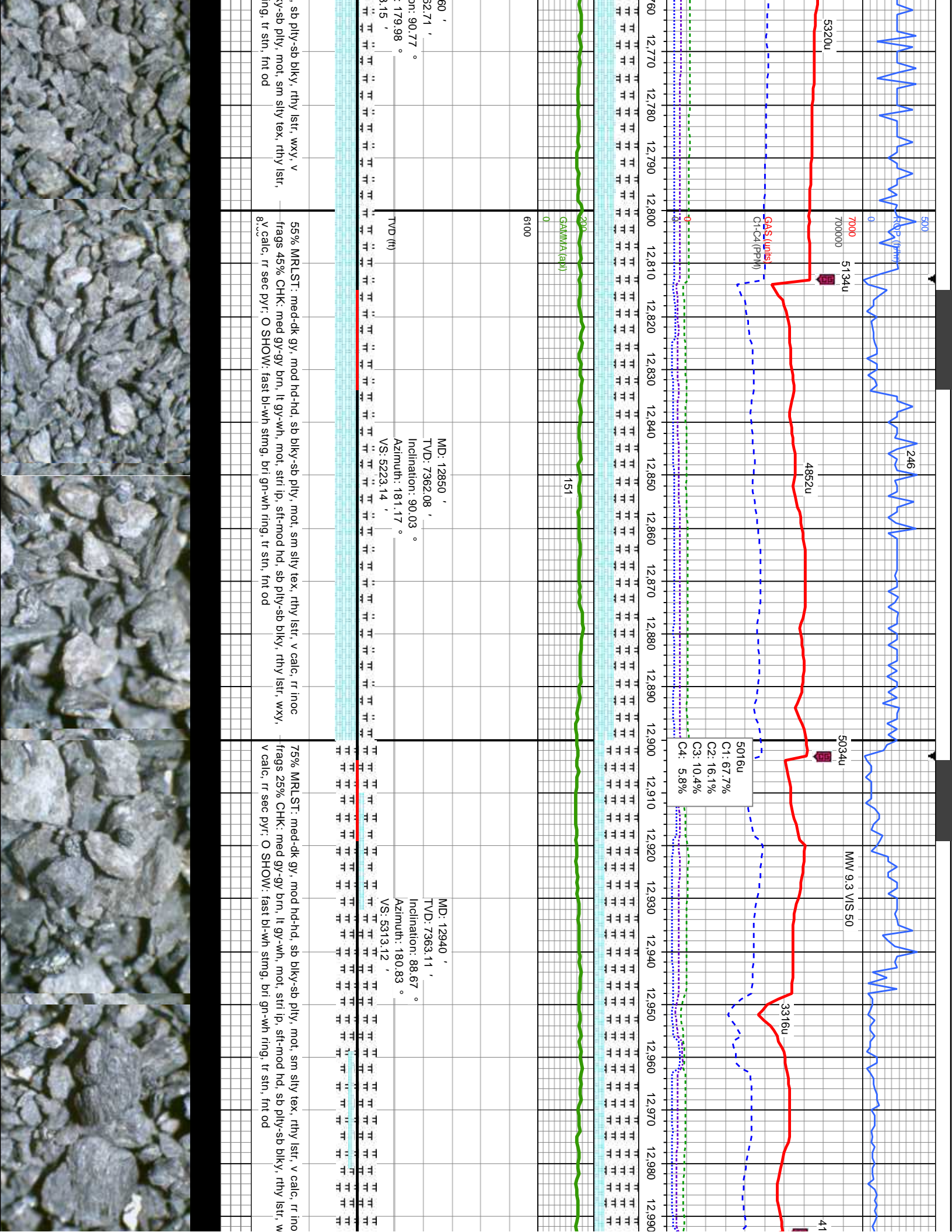
50% CHK: med gy-gy brn, lt gy-wh, mot, stri ip, sft-mod hd, sb ply-sb blk, rthy lstr, wxy, v calc 50% MRLST: dk gy-blk, mod hd-hd, sb blk-sb ply, mot, sm silty tex, rthy lstr, v calc, tr inoc frags, dissim pyr; O SHOW: v fast bl-wh string, bri gn-wh ring, tr str, fnt od	50% CHK: med gy-gy brn, occ lt gy-wh, mot, stri ip, sft-n ip, v calc 50% MRLST: med-dk gy, blk, mod hd-hd, sb blk v calc, rr inoc frags, rr pyr; O SHOW: inst bl-wh string, br
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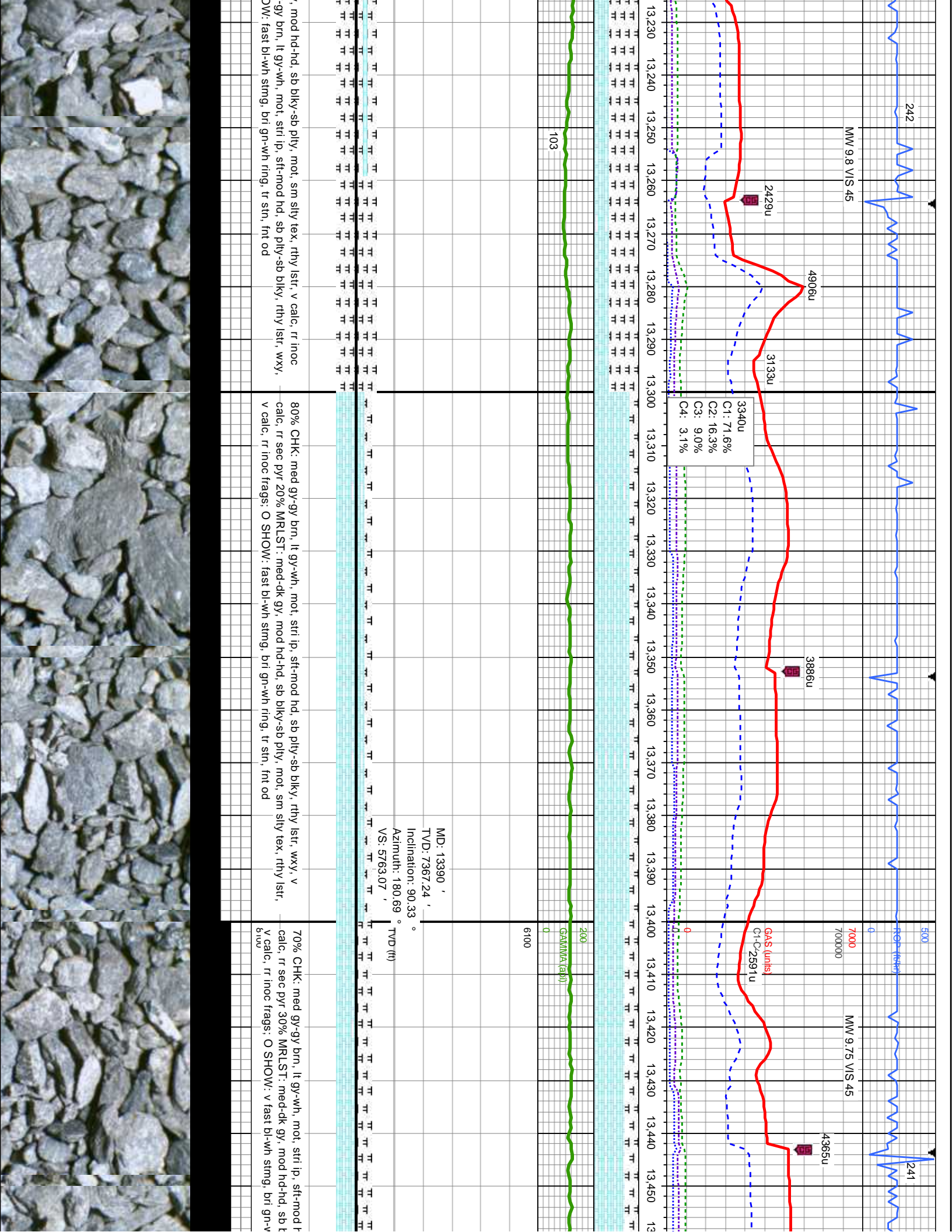


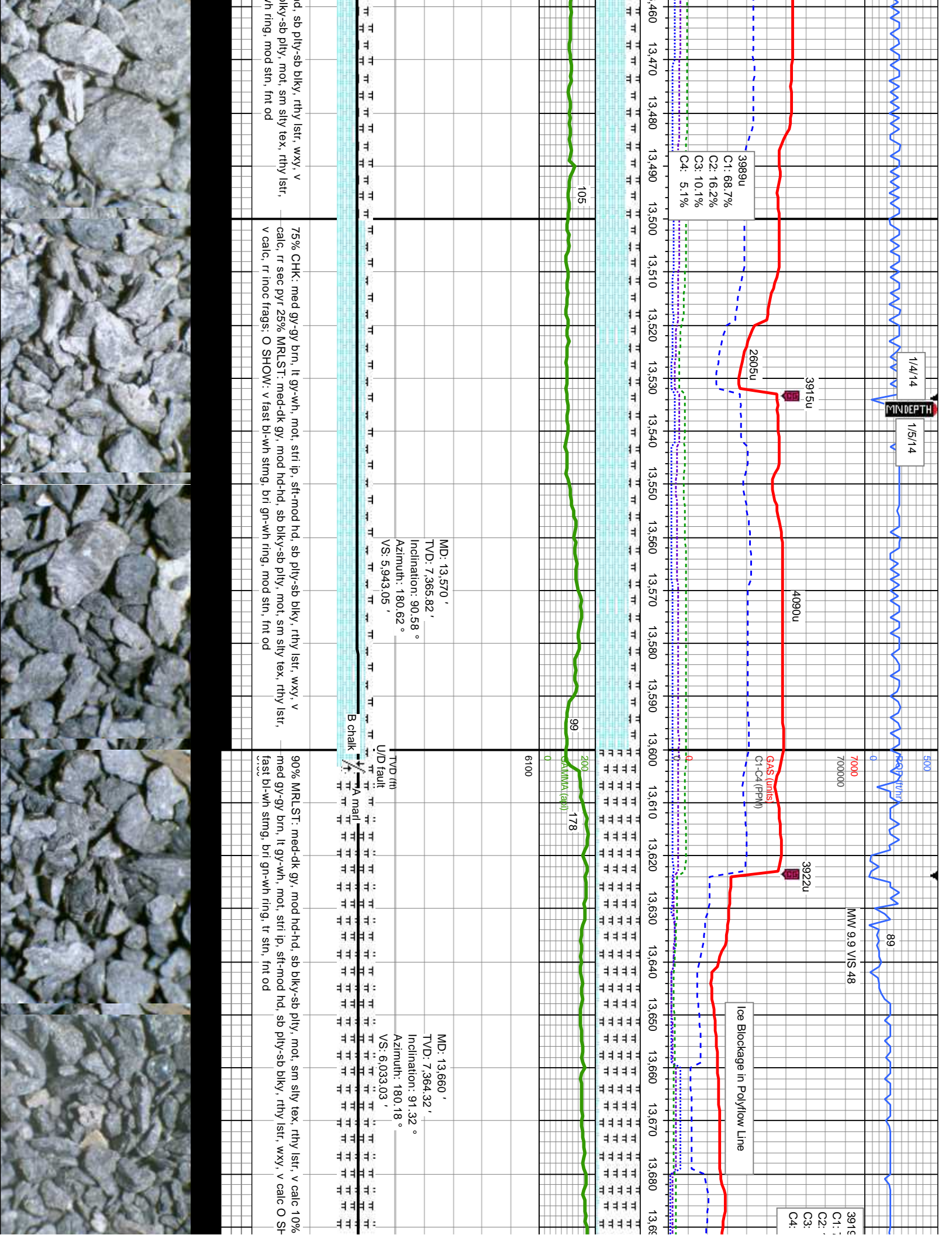


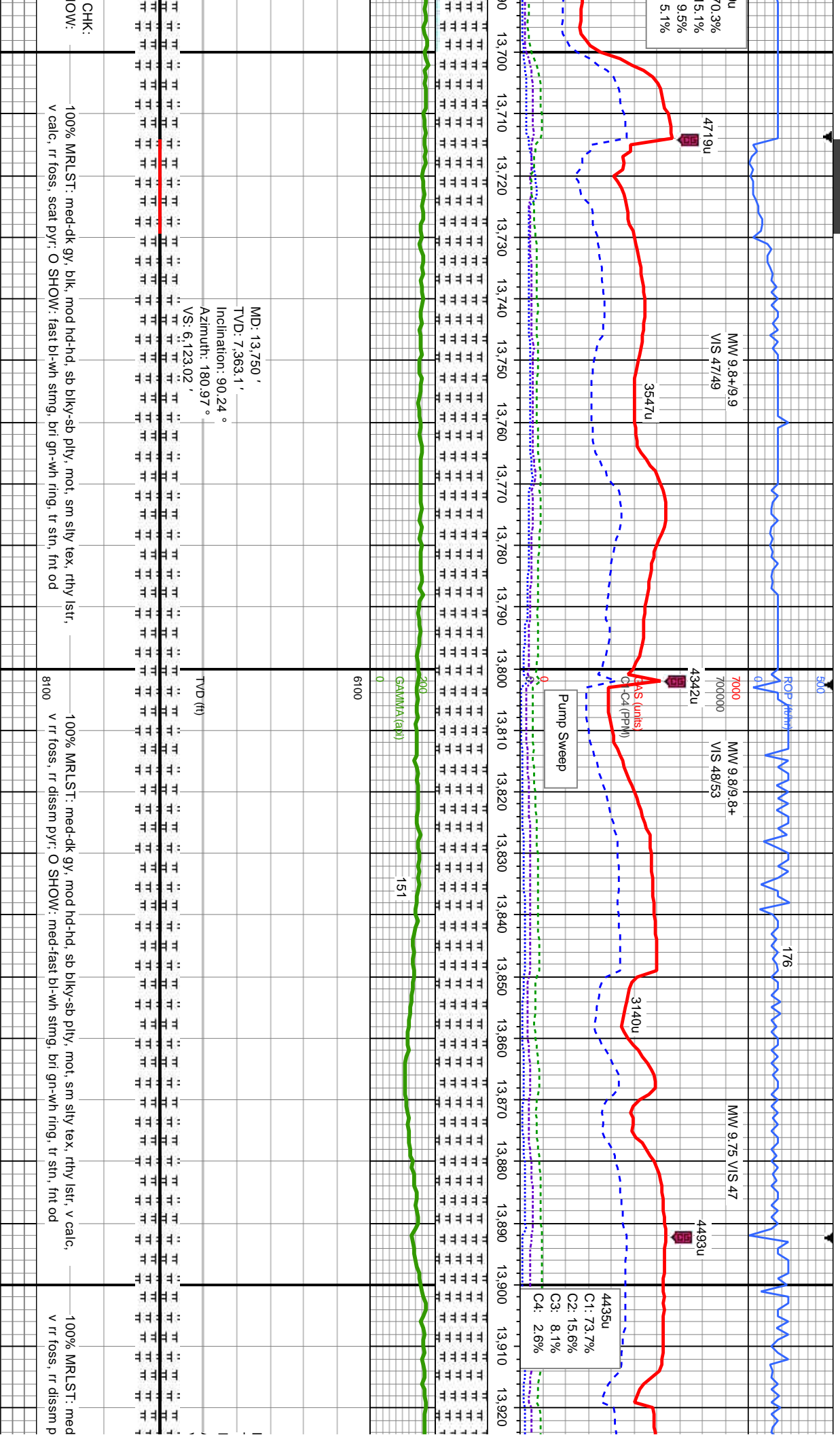


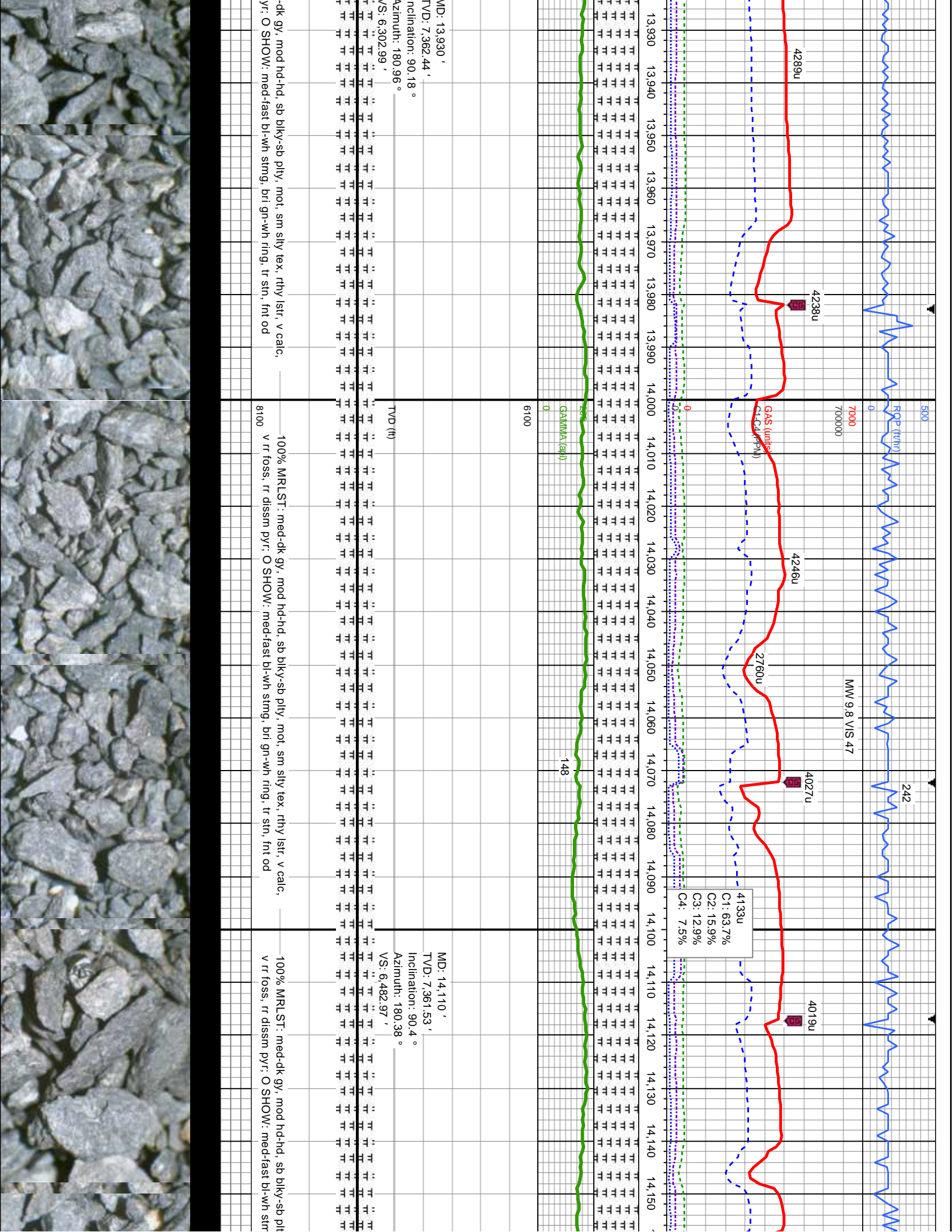


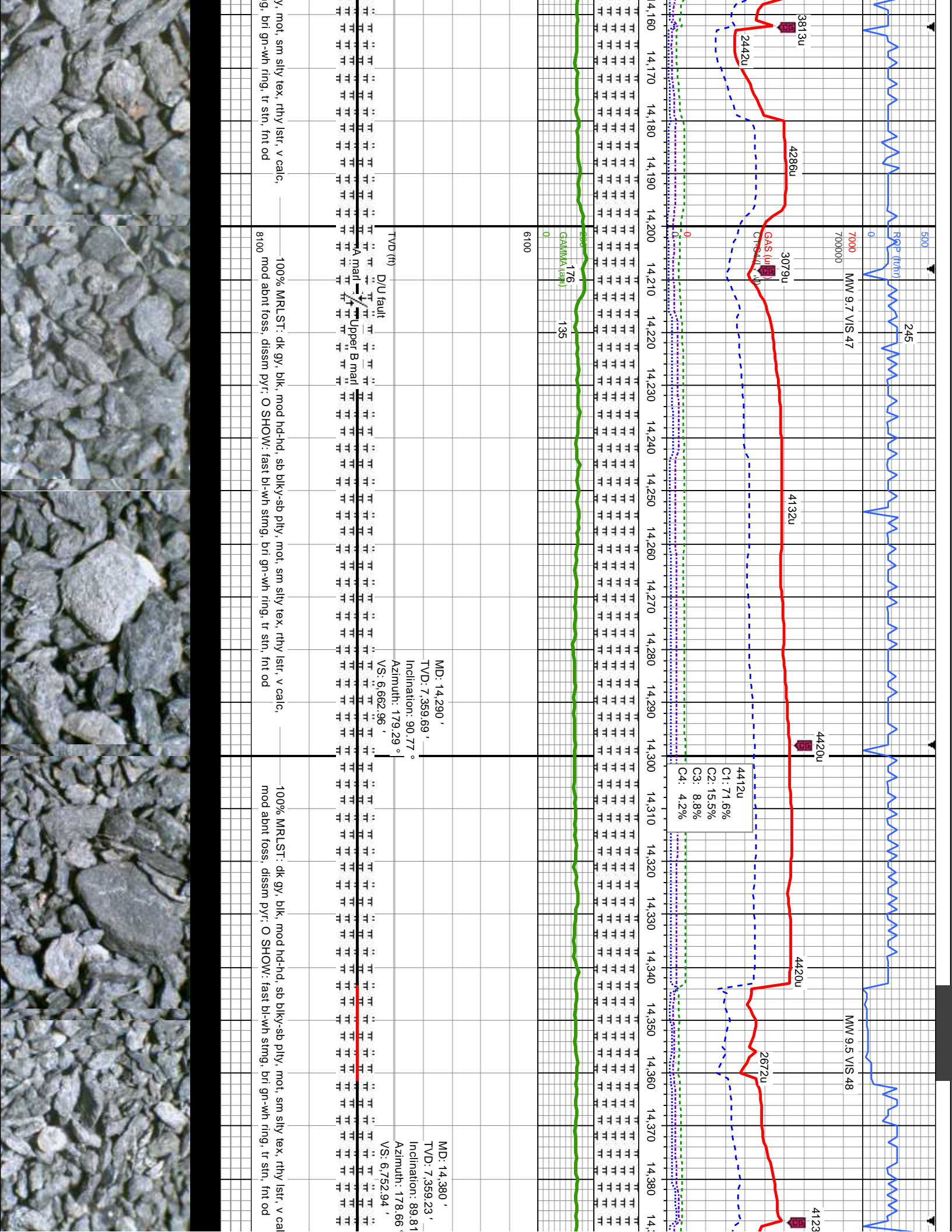


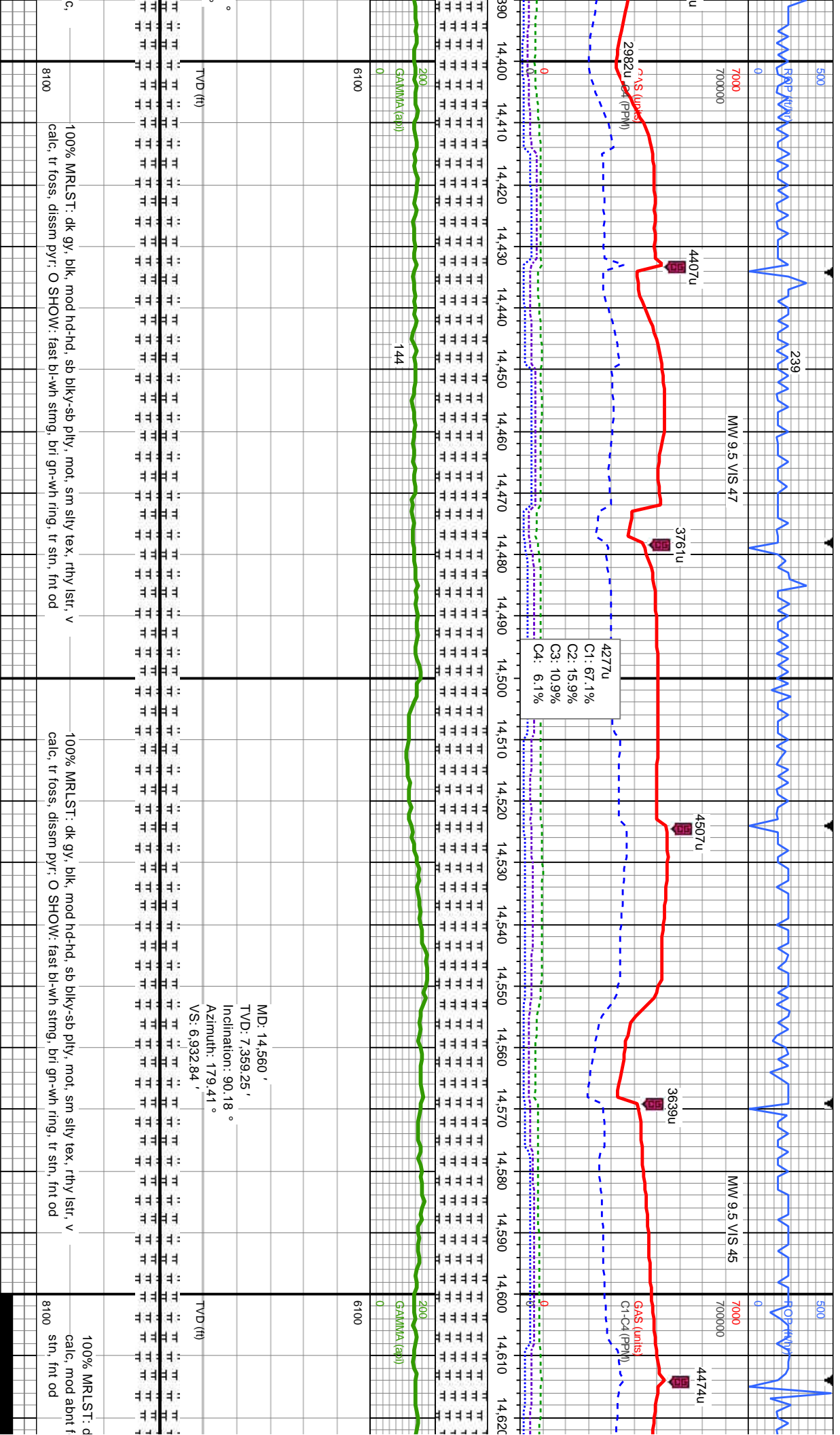


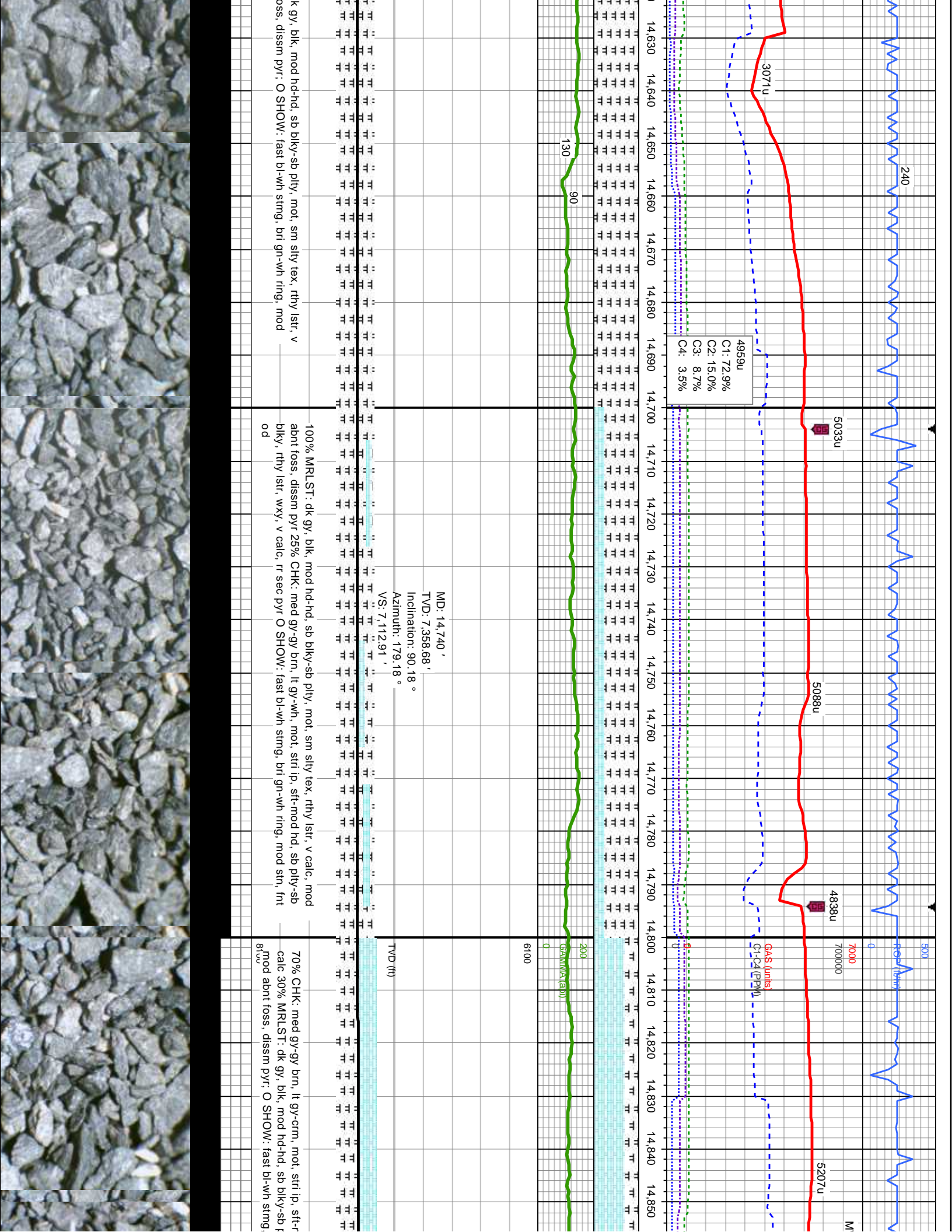


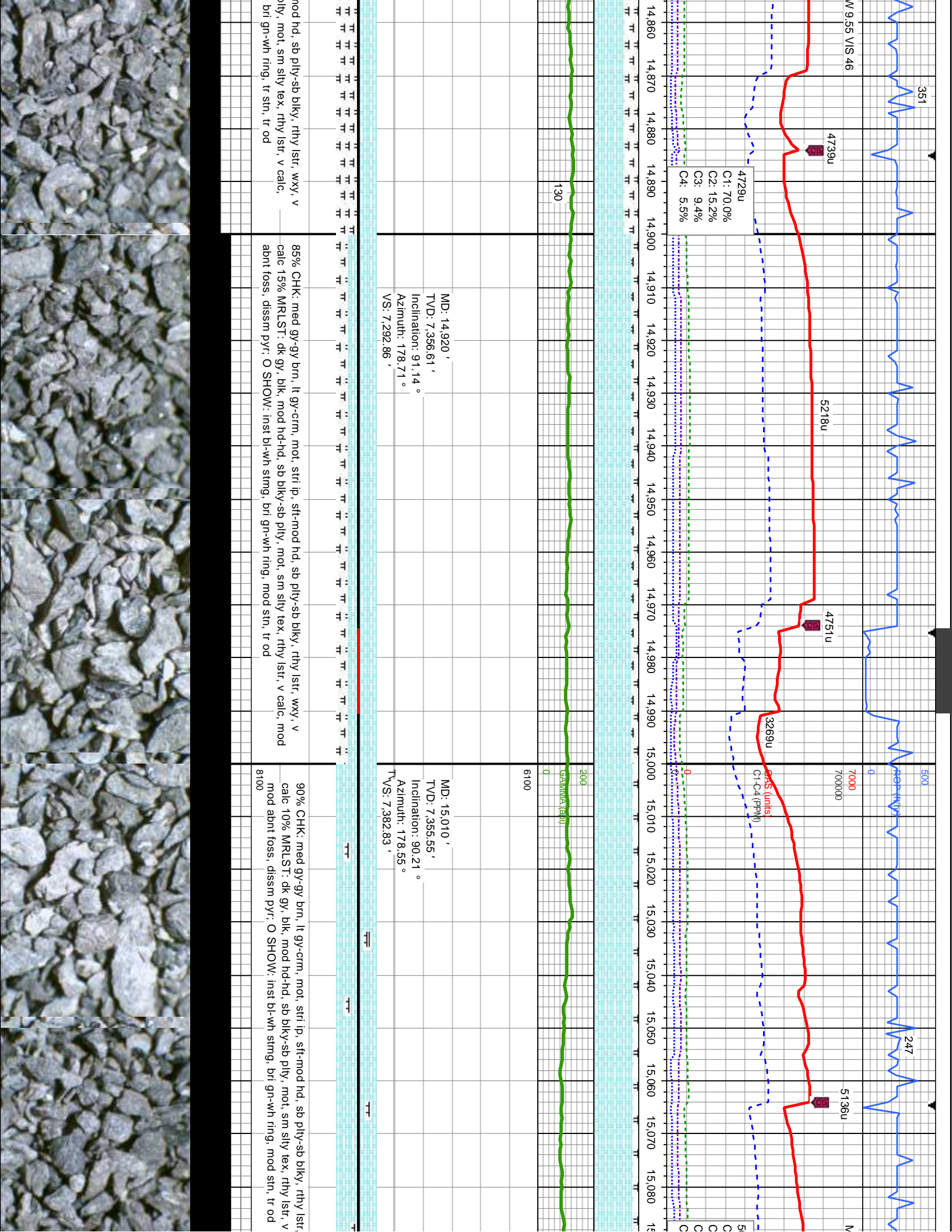


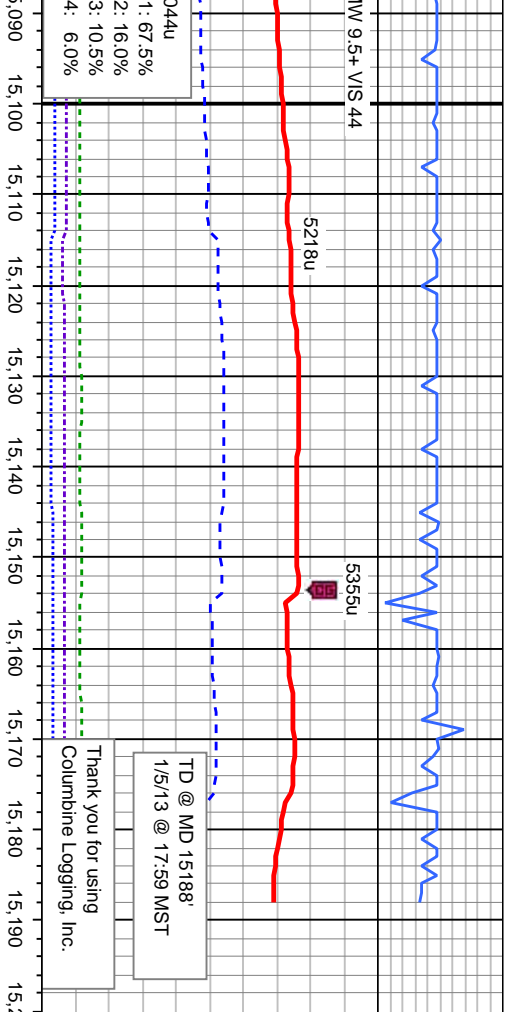












MD: 15,133'	Projection to Bit
TVD: 7,354.27'	MD: 15,188'
Inclination: 90.98°	TVD: 7,354.28'
Azimuth: 178.53°	Inclination: 90.98°
VS: 7,505.79'	Azimuth: 178.53°
	VS: 7,560.78'

65% CHK: med gy-gy brn, lt gy-crm, mot, stri ip, sft-mod hd, sb pty-sb blk, rthy	
lstr, wxy, v calc 35% MRLST: dk gy, blk, mod hd-hd, sb blk-sb pty, mot, sm	
sly tex, rthy lstr, v calc, mod abnt foss, dissn pyr, O SHOW: inst bl-wh stmg,	
bri gn-wh ring, mod stn, tr od	

