C377

SHOWS

D Oil, Dead
O Oil, Poor
Oil, Fair
Oil, Good
Gas

POROSITY

x Intergranular or Intercrystalline
Interoölitic
V Vugular
F Fractured
E Earthy

LITHOLOGY

Sand
Silt
Shale
Limestone
Dolomite
Anhydrite
Gypsum
Salt
Salt Casts
Igneous
Coal
Bentonite
B Bentonitic
Glauconitic
P Pyritic
Chert
Siliceous
Oölitic – Psuedo oölitic
F Fossiliferous
Marlstone
" with Nahcolite

Casing
Plugs
Perforations

COMPANY The Superior Oil Company LEASE — WELL NO. 36 ELEV. 6176 Gr.
LOCATION 1310' FWL 70' FSL SEC. 15 TWP. 1N RGE. 97W KB
FIELD — COUNTY Rio Blanco STATE Colorado T. D. 8100

	LITHOLOGY		DESCRIPTIVE LITHOLOGY	4" RQD 0 20 40 60 80 100	MUD GAS ..... Ci-2 ____ Total 10 20 30
1-5-75	NR		first 10 ft. ground up		
		1	10-11.6 med gr sandst, fine grain massive, slt. calc., few blk stringers at 11.1		
			11.6-13.2 aa med. br.		
			13.2-19.5 aa med gr, slt - NON calc.		
		2	19.5-20.2 med br sandst., fine + med grain massive, NON-calc.		
			20.2-21 med gr br sandst, fine-med grain massive, slt calc.		
		3	21-30.6 lt br, gr + pink sandst, v. fine grain fine-fair bedding, lensy str. calc., w/ MnO_2 ? etchings		
			30.6-34.5 lt br, gr, white, w/ pink tint v. fine grain, sandst to siltst fine-fair bd., lensy, str. calc		
		4	34.5-39.5 aa w/ med br zone of dk br at 37.6-38.4		
			39.5-41.6 med br, v. fine grain, sandst (or siltst) thin interbeds of lt gr, med. grain, sandst mod-str. calc.		
		5	41.6-43 med gr + br sandst, fine grain poorly bd., str. calc.		
			43-49.7 med gr sandst, fine grain massive, mod-str. calc. w/ med br + fair bd. btw 43.7-44.1		
		6	49.7-54 aa except, Sand 48.8-49.7 mod. calc.		
			54-56.7 br + gr siltst, thin interbeds w/ lt. gr sandst, str. calc		
		7	56.7-60 lt br + gr, white, w/ pink tint sandst v. fine grain, fine bd, lensy, str. calc. after 58.8 w/ interbeds of gr fine grain sandst		
			few sm. normal faults at 57.5		
1-7-74		8	60-64 aa (no white) orange alteration btw. 62.2-63.3		
		9	64-64.5 br, med grain sandst, crumbly v. slt - NON calc.		
			64.5-67.2 med. blue gr sandst, coarse grain massive, slt calc, blk stringers		
			67.2-70 med yellow br sandst, coarse grain massive, v. slt - NON calc.		
100'		10	70-70.6 (same as 64.5-67.2) NON - slt calc.		
			70.6-74.2 (same as 67.2-70) altered, rusty		
			74.2-80.5 zone alternating btw the blue gr + yellow br sandst. clastic.		
		11	80.5-84 (same as 64.5-67.2)		
			84-94.3 med gr sandst, fine grain, massive v. slt calc., blk flecks + laminae		
			94.3-95.6 aa		
		12	95.6-114.7 lt gr sandst, med grain, massive v. slt-stl calc., blk flecks = organic matter		
			114.7-125 aa w/ br tinted banding, v. slt calc.		
			125-135 aa v. slt-slt calc. after 132.5 w/ br silt banding		
		13	135-145 aa br silt bands, to 136 (btw 136-143 often br tint + few silt bands, where br tint is = fine grain).		
		14	145-151 lt gr, med grain sandst, alternating w/: lt gr w/ br tint, fine grain sandst massive, v. slt calc. blk lamin.		
		15	151-155 aa lt gr w/ br only slt) calc.		
			155-165 lt gr w/ br tint, fine grain, sandst massive, slt (alue) calc. thin bands of br silt or blk flecks		
		16	165-175 aa lt-med gr, w/ br tint slt stringers after 174.5 bands of lt gr, med. grain SS.		
		17	175-184 aa w/ bands of lt. gr, med. grain SS v. slt calc.		
		18	184-185.5 lt. blue gr, med grain sandst massive, blk lamins. + br silt stringers v. slt calc.		
			185.5-188 aa alternating w/ lt. gr w/ br tint fine grain SS.		
		19	188-195.3 lt gr, med grain, sandst, massive v. slt - slt calc. blk lamins. + flecks v. few zones of lt gr br tint, fine grain SS, increasing after 192.5		
			195.3-205.5 (lt gr, med grain Sandst alternates, w/: lt. gr w/ br tint, fine grain Sandst.) few blk flecks + lamin		
200'		20	v. slt) - slt calc.		
			205.5-215.3 aa		
		21			
			215.3-225.55 lt. gr, med grain sandst massive, blk flecks + laminae. some bands of br tinted, fine grain SS v. slt - calc.		
		22			
			225.55-235.1 aa w/ lt gr br, fine grain, SS btw 227.2-231.1		
		23			
			235.1-245.5 aa w/ the lt gr br bands btw 238.1 + 241.4 + after 242.7		
		24			
			245.5-249.2 aa		
		25	249.2-255 lt-med br, fine grain, sandst massive, mod. calc. after 253 w/ lt gr		
			255-264.7 aa slt-mod calc v. few blk flecks + lamin.		
		26	264.7-275 med br sandst, fine grain, massive w/ lt br btw 266.3-267.7		

b

massive, mod calc.
after 253 w/ lt gr

255 - 264.7 aa slt-mod calc
v few blk flecks + lamin.

264.7 - 275 med br sandst, fine grain, massive
w/ lt br btw 266.3 - 267
alternates w/: lt. gr, med grain, SS
btw 667.94 - 669.1
+ btw 671.2 - 671.8
+ after 674.1
few blk flecks + lamin. slt - mod calc

275 - 276.4 aa (alternating)

276.4 - 280.7 lt-med br sandst, fine grain
massive, v slt - slt calc.

280.7 - 285.3 aa lt br

285.3 - 292.7 lt br sandst fine grain
massive, v. slt calc, few blk flecks

292.7 - 294.8 aa, poorly bd. to massive
slt-mod calc, sm. zones of
v. lt. gr, med grain SS

294.8 - 302.8 lt. br fine grain sandst
alternating w/: lt gr, med grain sandst
v. slt calc), few blk flecks + lamin
lt gr only btw 296.1 - 296.9 + 301.5 - 302.4

300'
1-8-75

302.8 - 308 aa lbr dominant, v. slt - slt calc

308 - 319 lt. br sandst, fine - v. fine grain
v. poorly bd to massive, some dk br stringers
mod + calc.

319 - 325.4 lt gr sandst, med grain, massive
v. slt - NON calc, blk flecks + lamins.

325.4 - 334 lt-med br, fine grain, sandst
alternates w/ lt gr med grain SS
v. slt-mod calc, blk flecks & lamin.
(br silt stringers & br SS dominants)

334 - 344 aa, v. slt - calc.

344 - 347.2 lt. gr, fine - med grain sandst
massive, slt calc, few blk flecks + lamin

347.2 - 354.7 aa alternates w/
lt br, fine grain, sandst
v. slt - NON calc to slt calc.

354.7 - 365 aa v. slt calc.

365 - 375 aa v. slt - mod calc.

375 - 383.2 aa mod. calc

383.2 - 383.6 buff sltst w/ ss lenses
mod - str calc.

383.6 - 395.2 lt - med - dk br sltst, finely bedded
ss + silt lenses btw 384.3 - 388
mod - str calc to v. slt (w/ depth)

385.2 - 395.7 med - dk w/ lt gr br sltst, finely bedded
few buff silt bands, mod - str calc.

395.7 - 405.6 lt br w/ med + dk sltst, lensy, fair bd.
mod - str calc.
btw 396.5 - 397.3 med - gr br sltst, fine bd
btw 402.5 - 403.1 dk br sltst, fine bd, lensy

400'

405.6 - 414 lt br w/ med + dk sltst to v. fine SS
poorly bd., mod - str calc

414 - 415.4 dk br sltst, finely bd., mod. calc.

415.4 - 425.6 med - dk br manly sltst, finely bd.
str - slt calc. w/ depth
btw 420.8 - 421 lt gr br, fine grain, SS
after 421 zones + interbeds of
lt. gr br fine grain SS, slt calc

425.6 - 435.5 aa str calc
after 434.2 lt gr br SS lenses

435.5 - 439.6 lt gr + br, fine grain, sandst
poor bd - lensy to massive, few silt bds
mod calc.

439.6 - 445.6 med - dk br manly sltst finely bd.
mod - str calc, few thin SS bands + lenses

445.6 - 455 aa
after 452 sltst is NON - manly and
w/ increasing sand content

455 - 465 lt-med-dk br sltst (coarser w/ depth)
fine bd, v. lensy, some SS bands + lenses
mod - str calc.
after 463.5 w/ few lt gr, med grain SS bands.
in lower sandy mx is slt calc + fair bd.

465 - 475 lt-med br, fine grain sandst
alternates w/ - lt gr, med grain sandst
few blk lamins v. slt - NON calc
several small faults btw 472 - 474

475 - 485.2 lt-med br, fine grain sandst
v. poorly bd, massive, v. slt - NON calc.
some lt gr, med grain SS, esp. btw 481.5 - 484

485.2 - 487 lt-med-dk br sltst w/ some lt gr
fair - poorly bd, v. slt calc.

487 - 495 lt gr, med grain, sandst, massive
alternating w/ lt-med br, fine grain, SS
few blk flecks + lamins., v. slt calc.

1-9-75

495 - 502.3 lt gr med grain sandst, massive
few lt br bands of fine grain SS
blk flecks + lamins. v. slt calc.

500'

502.3 - 505.5 (same as 487-495) some lensy

505.5 - 512.5 aa v. slt - NON calc

512.5 - 513.4 lt-med-dk br sltst, poorly bd, lensy
str calc w/ little lt gr, med grain SS.

513.4 - 514.6 lt med br sandst, fine - med grain, massive
v. slt - NON calc, blk flecks + lamins.

514.6 - 517 lt.-med-dk br sltst, poorly bd, lensy, str calc

517 - 525.65 lt-med br sandst, fine grain
alternating w/ lt gr, med grain SS
massive, few lenses, blk flecks + lamins.
slt - mod calc

525.65 - 528 aa v. slt calc.

528 - 535 lt-med-dk br sltst, fine - fair bd
v. few lenses, few bands of lt gr, med grain, SS.
mod - str. calc., sm. normal fault at 528

535 - 537 lt br, fine grain, sandst, massive
mod - str calc, few lenses + stringers of silt

537 - 545 lt - med - dk br sltst, fine - fair bd. w/ some lenses
mod - str. calc.

545 - 548.7 aa w/ poorly bd, lensy btw 547.7 - 548.7
2 sm faults at 545.5 and 547

548.7 - 549.8 lt. gr, med grain sandst massive
v. slt calc blk flecks + lamins.

549.8 - 570.3 (same as 545 - 548.7)

570.3 - 581.4 lt gr, med grain sandst
alternates w/: lt.-med br, fine grain, sandst
massive to fair bd, v. slt calc, blk flecks + lamins

581.4 - 586 lt-med-dk br sltst, finely bd, mod - str calc
w/ numerous SS lenses after 583.9

586 - 587 ad, fair to fine bd, mod calc

587 - 587.5 med gr, fine grain sandst, massive, mod calc.

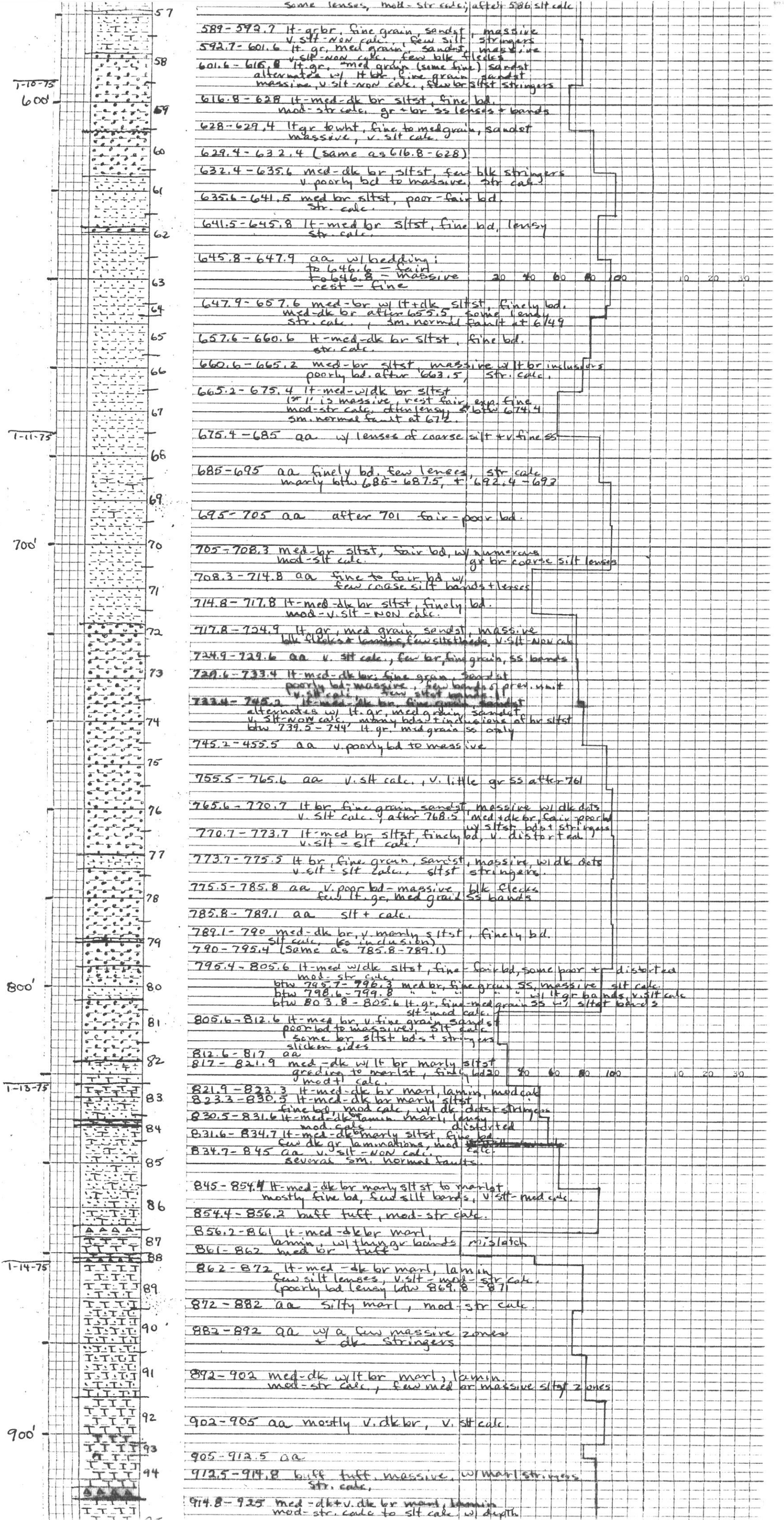
587.5 - 599.6 lt-med br coarse sltst, w/ dk br stringers
poorly bd, lensy; slt - mod - str. calc.
sm fault at 590.

599.6 - 589 med-dk br manly sltst, finely bd.
some lenses, mod - str calc; after 586 slt calc

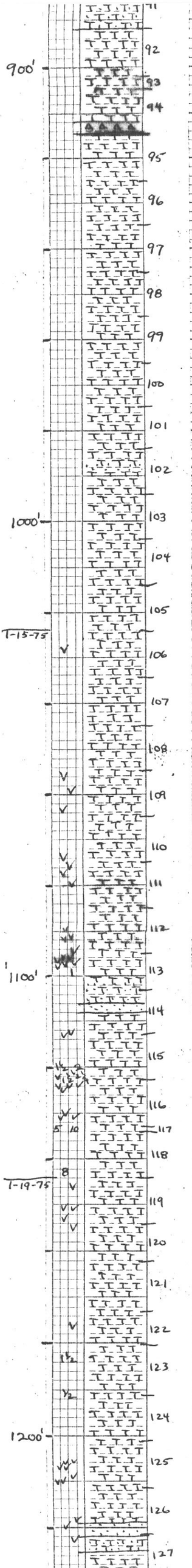
589 - 592.7 lt-gr br, fine grain, sandst, massive
v. slt - NON calc, few silt stringers

592.7 - 601.6 lt. gr, med grain, sandst, massive
v. slt - NON calc, few blk flecks

601.6 - 616.8 lt. gr. med grain (some fine) sandst


some lenses, mott-str calc, after 586 slt calc
589-592.7 lt-gr br, fine grain, sandst, massive v. slt-non calc, few slt stringers
592.7-601.6 lt. gr, med grain, sandst, massive v. slt-non calc, few blk flecks
601.6-616.8 lt. gr, med grain (same fine) sandst alternates w/ lt br, fine grain sandst massive, v. slt-non calc, few br slt stringers
1-10-75
600'
616.8-628 lt-med-dk br sltst, fine bd. mod-str calc. gr + br ss lenses + bands
628-629.4 lt gr to wht, fine to med grain, sandst massive, v. slt calc.
629.4-632.4 (same as 616.8-628)
632.4-635.6 med-dk br, sltst, few blk stringers v. poorly bd to massive, str calc.
635.6-641.5 med br sltst, poor-fair bd. str. calc.
641.5-645.8 lt-med br sltst, fine bd, lensy str. calc.
645.8-647.9 aa w/ bedding: to 646.6 = fair to 646.8 = massive rest = fine
647.9-657.6 med-br w/ lt+dk sltst, finely bd. med-dk br after 655.5, some lens str. calc., sm. normal fault at 649
657.6-660.6 lt-med-dk br sltst, fine bd. str. calc.
660.6-665.2 med-br sltst, massive w/ lt br inclusions poorly bd. after 663.5, str. calc.
665.2-675.4 lt-med-w/dk br sltst 1st 1' is massive, rest fair, esp. fine mod-str calc. diff lensy & btw 674.4 sm. normal fault at 672.
1-11-75
675.4-685 aa w/ lenses of coarse silt + v. fine ss
685-695 aa finely bd. few lenses, str calc, marly btw 686-687.5, + 692.4-693
695-705 aa after 701 fair-poor bd.
700'
705-708.3 med-br sltst, fair bd, w/ numerous gy br coarse silt lenses mod-slt calc.
708.3-714.8 aa fine to fair bd w/ few coarse silt bands + lenses
714.8-717.8 lt-med-dk br sltst, finely bd. mod-v. slt-non calc.
717.8-724.9 lt. gr, med grain, sandst, massive blk flecks + bands, few slt stks, v. slt-non calc
724.9-729.6 aa v. slt calc, few br, fine grain, ss bands
729.6-733.4 lt-med-dk br, fine grain, sandst poorly bd, massive, few bands of prev. unit v. slt calc, few sltst stringers
733.4-745.2 lt-med-dk br, fine grain, sandst alternates w/ lt. gr, med grain, sandst v. slt-non calc, many bds + thin lenses of br sltst btw 739.5-744' lt. gr, med grain ss only
745.2-455.5 aa v. poorly bd to massive
755.5-765.6 aa v. slt calc, v. little gr ss after 761
765.6-770.7 lt br, fine grain, sandst, massive w/ dk dots v. slt calc, after 768.5 med + dk br, fair-poor bd w/ sltst bds + stringers
770.7-773.7 lt-med br sltst, finely bd, v. distorted v. slt-slt calc.
773.7-775.5 lt br, fine grain, sandst, massive, w/ dk dots v. slt-slt calc, sltst stringers.
775.5-785.8 aa v. poor bd-massive, blk flecks few lt. gr, med grain ss bands
785.8-789.1 aa slt + calc.
789.1-790 med-dk br, v. marly sltst, finely bd. slt calc, (ss inclusion)
790-795.4 (same as 785.8-789.1)
795.4-805.6 lt-med w/dk sltst, fine-fair bd, some poor + distorted mod-str calc.
800'
btw 795.7-796.3 med br, fine grain ss, massive, slt calc
btw 798.6-799.8 " " " " " w/ lt gr bands, v. slt calc
btw 803.8-805.6 lt. gr, fine-med grain ss +/- sltst bands slt-mod calc.
805.6-812.6 lt-med br, v. fine grain sandst poor bd to massive, slt calc some br sltst bds + stringers slicken sides
812.6-817 aa
817-821.9 med-dk w/ lt br marly sltst grading to marlst, finely bd 820 mod+ calc.
1-13-75
821.9-823.3 lt-med-dk br marl, lamin, mod calc
823.3-830.5 lt-med-dk br marly sltst fine bd, mod calc, w/ dk dust stringers
830.5-831.6 lt-med-dk lamin. marl, lensy mod calc. distorted
831.6-834.7 lt-med-dk marly sltst, fine bd few dk gr laminations, mod calc.
834.7-845 aa v. slt-non calc. several sm. normal faults.
845-854.4 lt-med-dk br marly sltst to marlst mostly fine bd, few silt bands, v. slt-mod calc.
854.4-856.2 buff tuff, mod-str calc.
856.2-861 lt-med-dk br marl, lamin, w/ thin gr bands mislatch
861-862 med br tuff
1-14-75
862-872 lt-med-dk br marl, lamin few silt lenses, v. slt-mod-str calc. (poorly bd lensy btw 869.8-871
872-882 aa silty marl, mod-str calc.
882-892 aa w/ a few massive zones + dk. stringers
892-902 med-dk w/ lt br marl, lamin. mod-str calc, few med or massive sltst zones
902-905 aa mostly v. dk br, v. slt calc.
900'
905-912.5 aa
912.5-914.8 buff tuff, massive, w/ marl stringers str. calc.
914.8-935 med-dk + v. dk br marl, lamin mod-str. calc to slt calc, w/ depth

d



892-902 med-dk w/lt br marl, lamin.
mod-str calc., few med br massive sltst zones

902-905 aa mostly v. dk br, v. slt calc.

905-912.5 aa

912.5-914.8 buff tuff, massive, w/ marl stringers
str. calc.

914.8-925 med-dk+v. dk br marl, lamin
mod-str. calc to slt calc. w/ depth

925-935 aa w/ poor bd + lenses btw 930-933.8
v. slt-calc.

935-945 aa calc. varies: str to slt to v. slt

945-955 lt-med-dk br marl, lamin
calc. varies, usually mod-str.
btw 948-949 silt lenses
btw 953.7-955 massive w/ stringers

955-965 med-dk br marl, massive w/ stringers to 957 + after 963.5
rest is finely bd; massive rk is slt calc.
rest is mod + calc., few sm. wht crystal growths

965-974.5 aa massive w/ stringes to 965.7
rest is finely bd.
slt-mod to str calc.

974.5-984 lt-med-w/ dk br marl, grayish tint, lamin.
mod-str calc., few crystal growths.
minor faulting btw 980-983

984-994 med-dk br marl, lamin
v. slt calc.

994-1004 lt-med-dk-v. dk br w/ some gr marl
lamin, after 1000.6 is fair bd. lensy
calc. varies: v. slt-slt-mod.

1004-1014 lt-med br marl w/ dk + v. dk after 1008
fine to fair bd., distorted + lensy
slt-mod calc.

1014-1024 lt-med-dk br marl, fine-fair bd, lensy
slt-mod. calc.

1024-1034.55 aa w/ gr v. lensy to 1028
v. slt-slt calc.
nah. cavity (w/ py)
sm faults at 1025 + 1033

1034.55-1045 aa poor bd, lensy btw 1040.8 - 1042.6
sm. fault at 1041

1045-1055 lt-med-br w/ gr marl, slt-v. slt calc
poor bd, lensy to 1048.8
rest fine bd, silt bands + lenses

1055-1060.3 lt-med-dk br marl, lamin, v. slt calc
nah. cavities

1060.3-1063.7 lt gr br marl, lamin, slt calc.

1063.7-1067.8 med-dk-v. dk br marl, lamin
v. slt-mod calc., nah cav.

1067.8-1073.7 lt-med br w/ gr marl, lamin., mod calc.

1073.7-1075 med-dk br lamin marl, slt calc., nah cav.

1075-1085 lt-med-dk br w/ gr lamin marl
mod-str calc., nah cav.

1085-1095 aa

1095-1103 aa, str calc.

1103-1106.3 med-dk br marl, lamin
mod-v. slt calc., silt lenses

1106.3-1108.1 med gr br sltst, massive, str. calc.

1108.1-1111.2 lt-med-dk br w/ gr lamin, marl, v. slt calc.

1111.2-1112.6 med-dk br marl, poorly bd, lensy, slt calc.

1112.6-1123 med-dk w/ lt br w/ gr marl, v. slt-mod calc
fine bd (exp) poor + lensy to 1113.7 +
nahinod + cav. btw 1119.6-1120.4

1123-1133 aa bottom 1' distorted bds
v. slt-str calc., nah cav

1133-1134 med-dk br marl, lamin, mod calc.

1134-1144 med-dk w/ lt br, some gr, marl, lamin after lensy
poor bd, lensy btw 1139.5-1140.6
1142.4-1142.7
+ after 1143.8
mod-str calc to slt (w/ depth), nah nodes

1144-1154.5 aa mod-v. slt-slt calc, nah cav

1154.5-1156.3 lt-med br lamin marl, v. slt calc
last 4" is asphalt

1156.3-1162 med-dk-v. dk br w/ gr marl
mostly fine bd., v. slt-NON calc.

1162-1173 aa w/ lt br + massive btw 1168.2-1172.4
v. slt-slt-mod calc, blk stringers
sm. fault at 1168

1173-1180.5 aa lt-med br after 1174.3
distorted bds btw 1178.8-1179.3
nah. cav.

1180.5-1191 med-dk-v. dk br marl, lamin
w/ lt br btw 1184-1190, distorted btw 1182.3-1183.6
mod-v. slt calc., nah nodes

1191-1191.7 med-dk gr marl, massive, v. slt-NON calc.

1191.7-1201 lt-med-dk br w/ gr marl, lamin
v. slt-NON calc., several sm. faults.

1201-1211 aa nah cav. evidence

1211-1213.2 med br w/ dk marl, few silt lenses
poorly bd, lensy, v. slt-NON calc.

1213.2-1219 med-dk-v. dk br marl, lamin
v. slt-NON calc., sm. faults

1219-1222 lt-med br sltst, fair bd, lensy, v. slt-NON calc
nah? cav.

1222-1225 lt-med br silty marl, lamin, some lensy
few silt lenses, v. slt-NON calc., distorted

1225-1232 lt-med-dk-v. dk br marl
poorly bd, lensy, v. slt calc.

1191.7 - 1201 lt-med-dk br w/gr marl, lamin
V.slt -NON calc., several sm. faults

1201 - 1211 aa nah cav. evidence

1211 - 1213.2 med br w/ dk marl, few silt lenses
poorly bd, lensy, v. slt - NON calc.

1213.2 - 1219 med-dk-v.dk br marl, lamin
v.slt - NON calc., sm. faults

1219 - 1222 lt-med br slt-st, fair bd, lensy, v.slt-non calc
nah? cav.

1222 - 1225 lt-med br silty marl, lamin, some lensy
few silt lenses, V.slt-NON calc., distorted

1225 - 1232 lt-med-dk-v.dk br marl
poorly bd, lensy, v.slt calc.

1232 - 1242 lt-med-dk br+gr marl, lamin
v.slt - mod - NON calc.

1242 - 1252 lt-med w/ dk br+gr marl, lamin
v.slt - slt calc., nah mod+cav.
many minor faults

1252 - 1259 lt-med dk br w/gr marl, lamin
v.slt - NON calc.

1259 - 1266.4 lt-med br v.silty marl, fine bd
v.slt - NON calc., minor fault at 1264
nah cav. few silt lenses

1266.4 - 1274 lt-med-dk br marl, dk gr-blk stringers
poorly bd, lensy to 1268.8, v.v.slt - NON calc., nah. cav

1274 - 1284.25 aa w/gr, 1% g' arg. slt+ calc
mott in v. slt zone
nah. cav.

1284.25 - 1293.75 med-dk br w/lt br marl, w/ some gr
lamin., slt calc., nah. cav.

1293.75 - 1303.75 lt-med br+gr (w/grn tint) marl
after 1299, lt-med-dk br
poorly bd, to fair, lenses btw 1299 - 1300.6
slt - v.slt calc., zone of faults at 1295

1303.75 - 1307 aa

1307 - 1310 med-dk br marl, lamin, v.slt - NON calc

1310 - 1316 lt gr br silty marl, lamin, v.slt - slt calc

1316 - 1323 lt-med w/ dk gr+br marl, lamin
v.slt - slt calc.

1323 - 1327 lt gr br silty marl, fair w/ fine+ poor bd.
v.slt - NON calc., v. few blk stringers

1327 - 1333 lt-med-dk br+gr marl, lamin, v.slt - NON calc

1333 - 1338 aa, silty, w/ lenses

1338 - 1341.5 med-dk br marl, w/ lt br w/ depth
lamin, v.slt - NON calc.

1341.5 - 1346 lt-med gr br silty marl, lamin
v.slt - NON calc., nah. cav.

1346 - 1350.8 lt-med-dk br marl, w/ some gr, lamin
v.slt - NON calc.

1350.8 - 1359 aa silty, few dk gr stringers

1359 - 1367 med-dk w/ lt br marl, w/ little gr
lamin, v.slt - NON calc.

1367 - 1375 lt-med br gr silty marl, lamin, w/ distortion
slt - v.slt - NON calc

1375 - 1380 aa

1380 - 1388.6 aa, few dk bands w/ depth
v.slt - NON calc.

1388 - 1392.3 cavity ~4'

1392.3 - 1397 lt-med br marl, lamin
dk gr laminations, v.slt - NON to slt calc

1397 - 1401 aa

1401 - 1405 lt-med gr br silty marl, lamin
py stringers, v.slt calc
sm. fault at 1403

1405 - 1412 med-dk br+gr marl, lamin
v.slt - NON calc., few sm. faults

1412 - 1419 aa w/ lt, silty, few py stringers

1419 - 1423 med br marl, lamin. w/ lenses
v.slt - slt calc.

1423 - 1434 lt-med-dk br+gr marl, lamin
some slt silty, v.slt - NON calc.

1434 - 1444 aa w/ minor faulting

1444 - 1454 med-dk gr w/ br mart, lamin
blue tint, v.slt NON calc.

1454 - 1465 aa w/ lt, 1% 5' lensy + distor. to blk
slt calc (mod. locally)
sm. fault

1465 - 1470.7 aa w/ blk stringers
vuggy, v. slt calc.

1470.7 - 1473.6 med-dk br marl, poorly bd
w/ sm. lenses, v. slt calc.

1473.6 - 1479.7 lt-med-dk br+gr marl, lamin
v.slt - NON calc., nah cav., faults

1479.7 - 1494.2 med-dk br marl, lamin.
poorly bd, lensy btw 1479.7 - 1482.3
V.slt - NON calc., nah. cav

1494.2 - 1505 lt-med br marl, lamin
poorly bd, lensy btw 1497.5 - 1502.5
slt+ calc to v.slt - NON calc.
nah mod+cav.

1505 - 1515 aa v.slt - NON calc.

1515 - 1525 med-dk-v.dk br marl, lamin.
poorly bd, lensy btw 1515.35 - 1519.2
v.slt - mod calc.

1525 - 1535 dk-v.dk br w/ little lt-med br marl
lamin, w/ few sm. lenses to 1531
v.slt - NON calc. to slt calc., nah. cav

1535 - 1540.4 aa mod calc.

1200'
1300'
1400'
1500'
T-21-75
T-22-75
T-23-75

1-23-75

1515-1525 med-dk-v.dk br marl, lamin poorly bd, lensy btw 1515.35-1519.2 v.slt-mod calc.

1625-1535 dk-v.dk br w/ little lt-med br marl lamin, w/ few sm. lenses to 1531 v.slt-non calc. to slt calc, nah. cav

1535-1540.4 aa med calc.

1540.4-1545 lt-med br gr marl, lamin v.slt-non calc.

1545-1555 med w/ lt+dk ! marl, fine to fair bd. often lensy or distorted, v.slt calc. nah. cav. w/py

1555-1562 aa poorly bd, lensy, btw 1554.4-1560.5 v.slt-non calc. br sugary matl? nodules?

1562-1568.7 lt-med br+gr marl, lamin (some fair bd) v.slt-mod-v.slt non calc (w/ depth) nah. cav. + minor faults

1568.7-1575 med br marl, fair bd. lensy + distorted, nah. cav. v.slt-non calc.

1575-1585 lt-med-dk br marl, fair bd fine w/ few sm. cavities + py stringers calc. varies: non-v.slt-slt

1585-1589 aa v.slt-non calc.

1589-1595 med w/ lt+dk greenish br marl some fine bd, mostly poor bd w/ lenses v.slt-non calc.

1595-1596.5 aa

1596.5-1605.5 med-dk br marl, lamin fair bd. at first, lensy to 1599 v.slt-non calc.

1605.5-1615 aa poor bd + lensy to 1609.7

1615-1625 med-dk-v.dk br marl w/ lt gr bands lamin, poorly bd, lensy btw 1615.3-1616.5 v.slt-non calc.

1625-1635 aa w/ lt, poorly bd, lensy btw 1628.4-1629.7 and 1630.9-1631.1 nah cav + burrows

1635-1648 med-dk br w/ lt w/ gr marl, lamin, some lensy v.slt-slt calc., nah. nod.

1643-1648 lt-med br+gr marl, lamin v.slt calc.

1648-1652 med br marl, mostly poor bd + lensy, little fair-fine bd. v.slt-non calc. nah cav.

1652-1661 lt-med gr br marl, fine-fair bd. v.slt-non calc, often lensy dk gr stringers, minor faults

1661-1668 med-dk br w/ lt w/ gr marl, v.slt non calc. poor bd, lensy to 1662.6, rest is fine bd

1668-1672 lt br marl, lamin, v.slt-non calc. py bands, minor faults

1672-1681 aa med-dk w/ lt br, some gr (no faults)

1681-1687 aa some lensy

1687-1695 aa w/ minor fault

1695-1705 lt-med-dk br w/ gr marl, lamin slt-mod calc.

1705-1715 aa some lensy, v.slt-non calc. nah. cav (w/ py)

1715-1725 aa no gr, bd. indistinct: v. fine or indistinct, lensy, w/ little fair slt calc.

1725-1735 aa poor to fair bd, lensy to 1733.6 rest fine bd, v.slt calc nah. nodes + cav. + beds

1735-1745 med-dk br w/ gr marl, v slt calc poorly bd lensy btw 1737.8-1742.7 rest finely bd., nah. nodes + cav. + beds

1745-1758 aa w/ lt, fine bd. ex poorly bd, lensy btw 1753-1754.7 v.slt-non calc

1758-1765 med-dk br marl, v.slt-non calc. poor bd, lensy to 1761.7, rest fine bd. minor fault at 1761

1765-1775 aa poor bd, lensy btw 1768.4-1770.6 v.slt calc.

1775-1785 aa poorly bd, lensy btw 1778.2-1784.1 py bands, v.slt-non calc. to v.slt

1785-1795 aa some is poorly bd, lensy most finely bd, v.slt calc., minor fault

1795-1805 med-dk to v.dk br w/ dk gr tint marl lamin, v.slt calc., minor fault

1805-1809 aa

1809-1813 lt-med br marl, fair bd to 1811, rest poor, lensy v.slt calc., py bands

1813-1825 med-dk br marl (dk gr tint) lamin after 1822 is poor bd, lensy + v.slt calc. v.slt-non calc., py bands., minor fault

1825-1830 lt-med-dk br marl, mostly fine bd, some poor + lensy v.slt calc., py stringers + lenses

1830-1835 med-dk w/ v.dk br marl, poor bd, lensy to 1834.9 v.slt calc. rest fine

1835-1839.4 lt-med-dk br, v. little gr, marl, lamin v.slt calc., py bands

1839.4-1850 aa poorly bd btw 1839.4-1841.3 and 1842.7-1844.3 v.slt to v.slt-non calc., w/ mod lensy

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v.slt-non calc., py bands, minor fault

1825-1830 lt-med-dk br marl, mostly fine bd, some poor + lensy
v.slt calc, py stringers + lenses

1830-1835 med-dk w/v.dk br marl, poor bd, lensy to 1831.9
v.slt calc. rest fine

1835-1839.4 lt-med-dk br, v. little gr, marl, lamin
v.slt calc, py bands

1839.4-1850 aa poorly bd. btw 1839.4-1841.3
and 1842.7-1844.3
v.slt to v.slt-non calc. w/ mod locally

1850-1857 lt-med dk br w/gr marl, lamin, lensy
poorly bd, lensy btw 1853.1-1855.1
and 1855.5-1857.1
calc varies slt-mod - v.slt - w/ depth

1857-1862.4 med-dk-v.dk br marl, lamin
v.slt-non calc.

1862.4-1871 med-dk br w/lt, w/gr tint, marl
poor bd, lensy to 1864.5, rest fine
v.slt-non calc.

1871-1881 aa w/ dk gr stringers
sm. faults at 1872

1881-1891 aa thin nah. beds

1891-1899 aa v.slt-med calc.

1899-1908 lt-med-br w/ dk bands, marl
fine to fair bedding + lensy to 1908.8
rest is poorly bd, lensy
med-slt calc., nah. nodes + bed

1908-1918 aa w/gr, nah nodes
poorly bd, lensy to 1912.6
rest finely bd., v.slt-non to slt calc.

1918-1929 aa fine to fair bd, nah
slt to v.slt-non calc.

1929-1936 aa v.slt-non calc.
py banding

1936-1939 dk-v.dk br marl, lamin
v.slt-non calc.

1939-1949 lt-med-dk gr br marl, lamin, lensy
poor bd, lensy btw 1942.5-1943.8
v.slt-non calc, minor fault

1949-1959 med-dk br marl, w/lt br bands
poor bd, lensy to 1953.3, rest fine
v.slt-non calc.

1959-1969 aa v.dk br btw 1964-1966
grn tint w/ depth

1969-1978 med-dk br marl, grn tint, lamin
v.slt-non calc.

1978-1989.8 lt-med br w/dk marl, lamin
v.slt-non calc., py stringers

1989.8-1993.5 dk br (w/gr) marl, lamin
v.slt-non calc.

1993.5-1999.8 lt-med br + gr w/dk br marl
lamin, some lensy + distorted
v.slt-non calc., many sm. slt, lenses
+ br xyst. mat'l

1999.8-2002 aa

2002-2004.6 dk-v.dk br marl, w/gr tint
lamin, v.slt calc.

2004.6-2007.5 (same as 1993.5-2002)

2007.5-2010 med-dk-v.dk br marl, lamin.
v.slt-non calc. often lensy

2010-2018 dk br-blk marly shale,
lamin, v.slt-non calc.

2018-2020 med-dk br + br blk shaly marl
lamin, v.slt-non calc.

2020-2027 med-dk gr br marly shale
lamin, v.slt-non calc.

2027-2031 aa fine bd to 2028
rest poor + lensy

2031-2036.5 med-dk gr, br, blk
shaly marl to marly shale
lamin, lt bands, v.slt-non calc.

2036.5-2044 aa med-dk br-blk, marly shale

2044-2048 med w/lt + dk br marl, gr-grn tint
lamin, some lensy, v.slt-non calc.

2048-2055 - med dk br, gr, blk, shaly marl to
marly shale, lamin, v.slt-non calc.

2055-2059 aa shaly marl

2059-2064.5 med-dk br w/gr marl
little shaly, lamin, mod calc.

2064.5-2073.8 aa slt to v.slt-non calc.

2073.8-2084 dk br-blk shale,
some lt bands, fine bd, v.slt-non calc.

2084-2090 aa, marly

2090-2100 dk br-blk shale, fine bd.
few lt br marly beds, v.slt non calc.

1900'

1-27-75

2000'

1-28-75

2100'

20 40 60 80 100 10 20 30