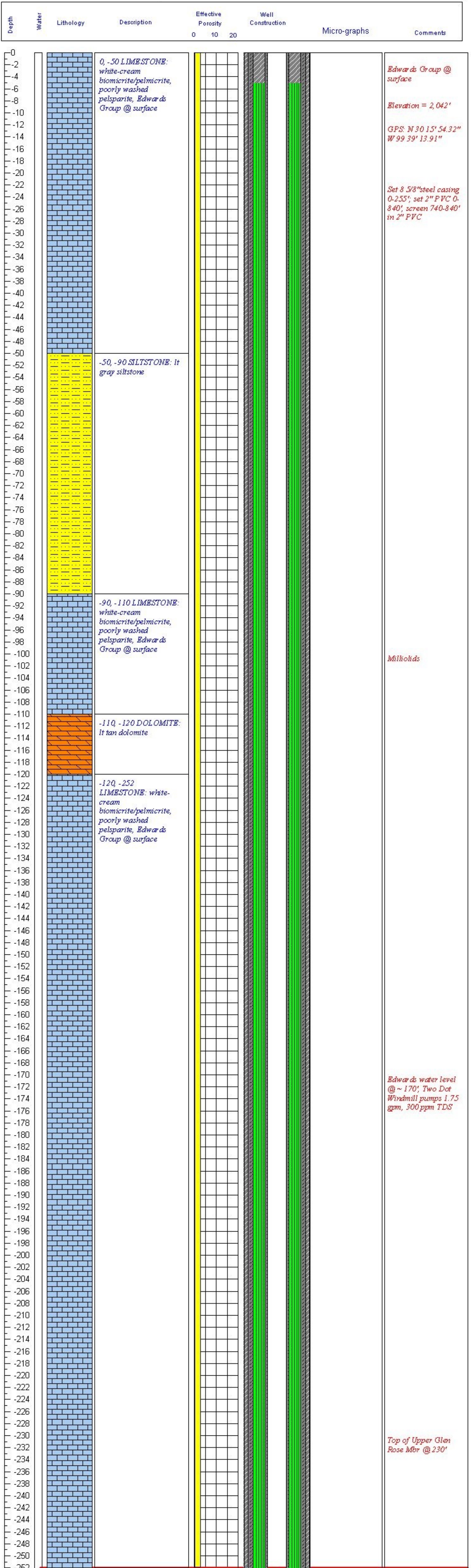
Water Well Log

Strata Geological Services, Inc.
Tarpley, Texas
830-562-3680

Well HGCD Monitor Well # 8
Location Two Dot Ranch, Kerr Co., Texas
Geologist Wm Feathergail Wilson, PG # 21
Driller Aramdigger
Rig Type Air Rotary
Total Depth 870' Completed 11-30-07


Depth
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Description
Effective Porosity
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Well Construction
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Comments
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0, -50 LIMESTONE: white-cream biomicrite/pelmicrite, poorly washed pelsparite, Edwards Group @ surface

-50, -90 SILTSTONE: lt gray siltstone

-90, -110 LIMESTONE: white-cream biomicrite/pelmicrite, poorly washed pelsparite, Edwards Group @ surface

-110, -120 DOLOMITE: lt tan dolomite

-120, -252 LIMESTONE: white-cream biomicrite/pelmicrite, poorly washed pelsparite, Edwards Group @ surface

Edwards Group @ surface

Elevation = 2,042'

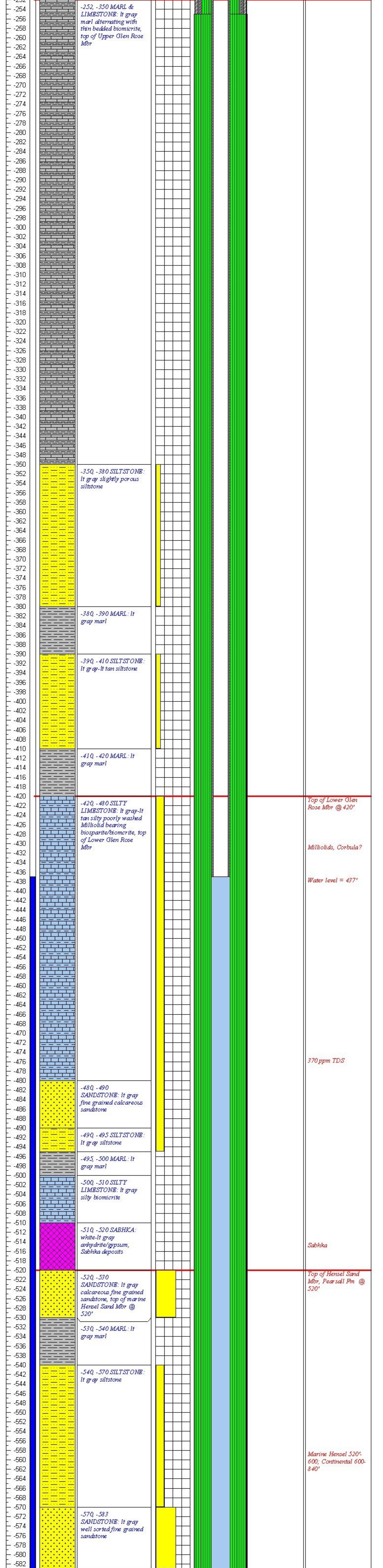
GPS: N 30 15' 54.32" W 99 39' 13.91"

Set 8 5/8"steel casing 0-255'; set 2" PVC 0-840', screen 740-840' in 2" PVC

Milliolids

Edwards water level @ ~ 170', Two Dot Windmill pumps 1.75 gpm, 300 ppm TDS

Top of Upper Glen Rose Mbr @ 230'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-252, -350 MARL & LIMESTONE: lt gray marl alternating with thin bedded biomicrite, top of Upper Glen Rose Mbr

-350, -380 SILTSTONE: lt gray slightly porous siltstone

-380, -390 MARL: lt gray marl

-390, -410 SILTSTONE: lt gray-lt tan siltstone

-410, -420 MARL: lt gray marl

-420, -480 SILTY LIMESTONE: lt gray-lt tan silty poorly washed Milliolid bearing biosparite/biomcrite, top of Lower Glen Rose Mbr

Top of Lower Glen Rose Mbr @ 420'

Milliolids, Corbula?

Water level = 437'

370 ppm TDS

-480, -490 SANDSTONE: lt gray fine grained calcareous sandstone

-490, -495 SILTSTONE: lt gray siltstone

-495, -500 MARL: lt gray marl

-500, -510 SILTY LIMESTONE: lt gray silty biomicrite

-510, -520 SABHKA: white-lt gray anhydrite/gypsum, Sabhka deposits

Sabhka

-520, -530 SANDSTONE: lt gray calcareous fine grained sandstone, top of marine Hensel Sand Mbr @ 520'

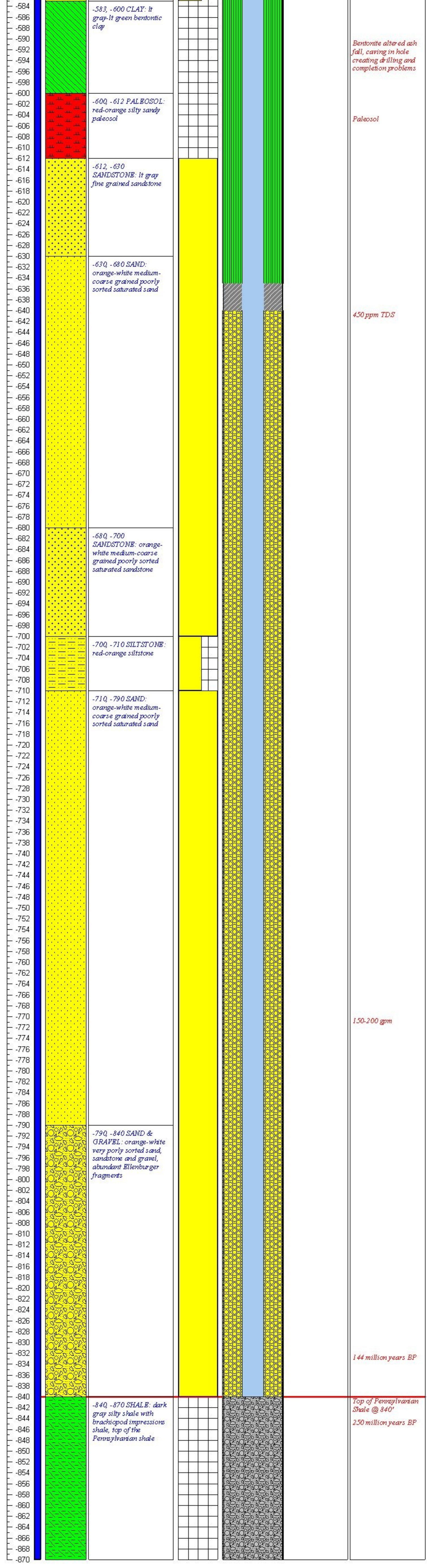
Top of Hensel Sand Mbr, Pearsall Fm @ 520'

-530, -540 MARL: lt gray marl

-540, -570 SILTSTONE: lt gray siltstone

Marine Hensel 520'-600; Continental 600-840'

-570, -583 SANDSTONE: lt gray well sorted fine grained sandstone



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-583, -600 CLAY: lt gray-lt green bentontic clay

Bentonite altered ash fall, caving in hole creating drilling and completion problems

-600, -612 PALEOSOL: red-orange silty sandy paleosol

Paleosol

-612, -630 SANDSTONE: lt gray fine grained sandstone

-630, -680 SAND: orange-white medium-coarse grained poorly sorted saturated sand

450 ppm TDS

-680, -700 SANDSTONE: orange-white medium-coarse grained poorly sorted saturated sandstone

-700, -710 SILTSTONE: red-orange siltstone

-710, -790 SAND: orange-white medium-coarse grained poorly sorted saturated sand

150-200 gpm

-790, -840 SAND & GRAVEL: orange-white very porly sorted sand, sandstone and gravel, abundant Ellenburger fragments

144 million years BP

-840, -870 SHALE: dark gray silty shale with brachiopod impressions shale, top of the Pennsylvanian shale

Top of Pennsylvanian Shale @ 840'

250 million years BP