

All Samples were damp + some wet

South Bethan

Note: samples were apparently mixed in circulation by rotary drilling - correlations best made with e-log

φ scw

Q 42-5

J. Miller

Number	Interval	Color (Rock color chart)	Grain Size	Comments
33886	0-5'	medium yellowish brown 10YR 5/4	m+c sand	upper portion is a soil horizon
33887	5-10'	light olive gray 5Y 6/1	m+c sand	some granules + sm. pebbles
33888	10-15'	light olive gray 5Y 6/1	m+c sand	Some silt layers
33889	15-20'	light olive gray 5Y 6/1	m+c sand	
33890	20-25'	greenish gray 5Y 6/1	f-m-c sand	very compact w/ dark spots
33891	25-30'	greenish gray 5Y 6/1	m sand	dark specks (mica, etc)
33892	30-35'	greenish gray 5Y 6/1	m sand	dark specks
33893	35-40'	olive gray 5Y 4/1	m-c sand	some silt layers (organic odor)
33894	40-45'	greenish gray 5Y 6/1	m sand	dark specks
33895	45-50'	greenish gray 5Y 6/1	c sand	Some silt-clay layers
33896	50-55'	light olive gray 5Y 6/1	c-vc sand	dark specks
33897	55-60'	light olive gray 5Y 6/1	c-vc sand	" "
33898	60-65'	" "	" " "	" "
33899	65-70'	" "	" " "	w/ med. chert pebbles
33900	70-75'	" "	Gravel (med. pbl. to granules) + vc sd.	chert olive gray layers sticky clay or
33901	75-80'	greenish gray 5Y 6/1	" "	" "
33902	80-85'	light olive gray 5Y 6/1	c-vc sand w/ few granules	dk. greenish gray layers 5Y 4/1
33903	85-90'	" "	" " "	" "
33904	90-95'	" "	Gravel (med. pbl. to granules) w/ c-vc sd.	Some clay
33905	95-100'	" "	Gravel " "	" "
33906	100-105'	greenish gray 5Y 6/1	" " w/ c-vc sd.	clayey (med. bluish sb. gray)
33907	105-110'	" "	" " "	" "
33908	110-115'	" "	" " "	" (less clay than above)
33909	115-120'	" "	c-vc. sd w/ gravel (sm. pbl. to granules)	clayey (as before)
33910	120-125'	" "	" " "	" "

Q 42-5

all samples damp or wet  
 Color

φ scale

S Number	Interval	Color (Rock color chart)	Grain Size	Comments
33911	125-130'	Greenish Gray 5Y 6/1	c-v.c. sd w/ gravel (sm. pbl. + granule)	lt. bluish gray clay 5 B 7/4 (clayey)
33912	130-135'	" "	" " " (m. pbl. granule)	lt. bluish gray clay 5 B 5/1 (clayey)
33913	135-140'	" "	" " w/ gravel (sm. pbl. granule)	" "
33914	140-145'	H. olive gray 5Y 4/1	c-v.c. Sand	w/ dk. specks (all present)
33915	145-150'	" "	c-v.c. Sand	clean sand.
33916	150-155'	" "	" "	some clay layers (olive gray 5Y 4/1)
33917	155-160'	" "	" " w/ gravel (granules)	" "
33918	160-165'	" "	c. Sand	clean sand
33919	165-170'	" "	" "	" "
33920	170-175'	" "	c-v.c. Sand w/ gravel (sm. pbl. + gran.)	sl. clay (olive gray 5Y 4/1)
33921	175-180'	" "	c-v.c. Sand	" "
33922	180-185'	" "	c. sand	v. sl. clay "
33923	185-190'	" "	c-v.c. sd	clean sand.
33924	190-195'	" "	c-v.c. Sand	" "
33925	195-200'	" "	c-v.c. sd w/ gravel (m. pbl. + gran.)	sl. clayey (olive gray 5Y 4/1)
33926	200-205'	" "	v.c. sd w/ gravel (s. pbl. + gran.)	sl. clayey
33927	205-210'	olive gray 5Y 4/1	c. sand w/ gravel (s. pbl. + gran.)	v. sl. clayey (dk. greenish gray 5Y 4/1)
33928	210-215'	" "	c-v.c. sd	v. sl. clayey
33929	215-220'	" "	" "	v. sl. clayey
33930	220-225'	" "	" "	" "
33931	225-230'	" "	m-v.c. sd	" "
33932	230-235'	Dark greenish gray 5Y 4/1	c. sd.	very clayey (dark greenish gray 5Y 4/1)
33933	235-240'	olive gray 5Y 4/1	c. sd	clayey
33934	240-245'	" "	m-v.c. sd	sl. clayey
33935	245-250'	" "	c-v.c. sd	" "

← Sample damp or wet

↘  $\phi$  scale

Q 42-5

<u>S number</u>	<u>interval</u>	<u>color</u> (rock color chart)	<u>grain size</u>	<u>comments</u>
33936	250-255'	olive gray SY 4/1	C-V.C. sand	sl. clayey
33937	255-260'	" "	" "	" "
33938	260-265'	" "	" "	v. sl. clayey
33939	265-270'	" "	" "	v. sl. clayey
33940	270-275'	" "	C. sand	v. sl. clayey
33941	275-280'	" "	C-V.C. sand w/ grav (m. pl + g. sand)	clayey
33942	280-285'	" "	" "	" "
33943	285-290'	" "	C-V.C. sand w/ grav (m. pl + g. sand)	" "
33944	290-295'	" "	" "	" "
33945	295-300'	" "	" w/ less grav	sl. clayey
33946	300-305'	" "	" w/ minor grav	v. sl. clayey
33947	305-310'	" "	" w/ grav	v. sl. clayey
33948	310-315'	" "	C-V.C. sd w/ grav (s. pl + g. sand)	" "
33949	315-320'	" "	" w/ grav (s. pl + g. sand)	clayey
33950	320-325'	" "	" "	clayey (olive gray clay SY 4/1)
33951	325-330'	" "	C-V.C. sand	clayey
33952	330-335'	" "	C-V.C. sd w/ grav (s. pl + g. sand)	sl. clayey
33953	335-340'	" "	C-V.C. sand	clean sand
33954	340-345'	" "	" "	" "
33955	345-350'	" "	" "	" "
33956	350-355'	" "	" "	" "
33957	355-360'	" "	" "	" "
33958	360-365'	lt olive gray SY 6/1	M-C. sand	" "
33959	365-370'	" "	M-C. sand w/ grav (granules)	" "
33960	370-375'	" "	Gravel (granules) w/ (M-C sand)	clean (clay)

sample damp or wet

Ø size

QJ 42-5

<u>S number</u>	<u>interval</u>	<u>color</u> (Munsell color chart)	<u>grain size</u>	<u>comments</u>
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33961	375-380'	light olive grey SY 6/1	Gravel (silt + clay) w/m-csd.	clean
33962	380-385'	" "	m-v.c. Sand	"
33963	385-390'	" "	" "	"
33964	390-395'	" "	" " w/m-csd (gravel)	"
33965	395-400'	" "	" "	"