United States Department of the Interior
Geological Survey, WRD

WELL LOG

Common Name: WCYV
Location: YUCAIPA, CA
Source of Cuttings: Shaker / core shoes*
Total Depth: 862.5'

USGS Site ID: 340248117020901-4
Drilled By: USGS WRD DV
Recorded By: A. BROWN

State Well ID: 1S/2W-36A2-S
Project Number:
Date Completed: 03/02/2001
Description Date: 08/26/2008

Sample Depth	Material Description
20' c	SAND (S); coarse to very coarse SAND; well sorted; SUBANGULAR; dark yellowish BROWN (10YR 4/4)
30' c	SAND (S); coarse to very coarse SAND; well sorted; SUBANGULAR; dark yellowish BROWN (10YR 4/4)
40'	GRAVEL (G); GRANULE to LARGE PEBBLE-SIZED GRAVEL; POORLY SORTED; ANGULAR to SUBROUNDED; VARIOUS COLORS,
50'	SANDY GRAVEL (SG); GRANULE to MEDIUM PEBBLE-SIZED GRAVEL; POORLY SORTED; ANGULAR to ROUNDED; DARK YELLOWISH BROWN (10YR 4/4)
60'	SLIGHTLY GRAVELLY SILTY SAND (zS); MEDIUM to VERY COARSE SAND with SILT and OCCASIONAL GRANULES; POORLY SORTED; SUBANGULAR to SUBROUNDED; DARK YELLOWISH BROWN (10YR 3/4)
70'	GRAVELLY SAND (gS); COARSE to VERY COARSE SAND with MINOR GRANULES; WELL SORTED; SUBANGULAR to SUBROUNDED; BROWN (10YR 4/3)
80'	SANDY GRAVEL (sG); GRANULE to MEDIUM PEBBLE-SIZED GRAVEL with COARSE to VERY COARSE SAND; POORLY SORTED; SUBANGULAR to SUBROUNDED; DARK YELLOWISH BROWN (10YR 4/4)
90'	SANDY GRAVEL (sG); GRANULE to SMALL PEBBLE-SIZED GRAVEL with COARSE to VERY COARSE SAND; POORLY SORTED; SUBANGULAR; BROWN (10YR 4/3)
100'	GRAVELLY SAND (gS); COARSE to VERY COARSE SAND with GRANULE to SMALL PEBBLE-SIZED GRAVEL; MODERATELY SORTED; SUBANGULAR; BROWN (10YR 4/3)
110'	GRAVELLY SAND (gS); COARSE to VERY COARSE SAND with GRANULE to SMALL PEBBLE-SIZED GRAVEL; MODERATELY SORTED; SUBANGULAR; BROWN (10YR 4/3)
120' c	GRAVELLY SAND (gS); COARSE to VERY COARSE SAND with GRANULES; WELL SORTED; SUBANGULAR; BROWN (10YR 4/3)
130'	CLAYEY SANDY GRAVEL (cmsG); GRANULES with MEDIUM to VERY COARSE SAND and CLAY; POORLY SORTED; ANGULAR to SUBANGULAR; light olive BROWN (2.5Y 5/4)
135'	SANDY GRAVEL (sG); GRANULE to LARGE PEBBLE-SIZED GRAVEL with VERY COARSE SAND; POORLY SORTED; olive BROWN (2.5Y 4/3)
140'	GRAVELLY SAND (gS); COARSE to VERY COARSE SAND with GRANULES; WELL SORTED; SUBANGULAR; BROWN (10YR 4/3)
150'	SANDY GRAVEL (sG); GRANULE to SMALL PEBBLE-SIZED GRAVEL with VERY COARSE SAND; MODERATELY SORTED; ANGULAR to SUBANGULAR; olive BROWN (2.5Y 4/3)

* c- denotes core shoe sample

Common Name: WCYV

Sample Depth	Material Description
160'	Sandy Gravel (sG); granule to small pebble-sized gravel with very coarse sand; moderately sorted; Angular to subangular; olive brown (2.5y 4/3)
170'	Silty sandy Gravel (msG); granules with very coarse sand and silt; poorly sorted; subangular; Brown (10yR 4/3)
180' c	Silty sandy gravel (msG); granule to small pebble-sized gravel with very coarse sand and silt; poorly sorted; subangular; olive brown (2.5y 4/3)
190'	Sandy Gravel (sG); granule to small pebble-sized gravel with very coarse sand; moderately sorted; Angular to subangular; olive brown (2.5y 4/3)
200'	Sandy Gravel (sG); granules with very coarse sand; well sorted; Angular to subangular; olive brown (2.5y 4/3)
210'	Silty gravelly sand (gmS); very fine to very coarse sand with granules and silt; poorly sorted; subangular; Brown (10yR 4/3)
215'	Silty gravelly sand (gmS); very fine to very coarse sand with granules and silt; poorly sorted; Angular to subangular; Brown (10yR 4/3)
220'	Silty gravelly sand (gmS); very fine to very coarse sand with granules and silt; poorly sorted; Angular to subangular; Brown (10yR 4/3)
230'	Sandy gravel (sG); granule to small pebble-sized gravel with very coarse sand; poorly sorted; subangular; olive brown (2.5y 4/3)
240'	Sandy gravel (sG); granules with very coarse sand; well sorted; subangular; olive brown (2.5y 4/3)
250'	Gravelly silty sand (gmS); very fine to very coarse sand with silt and granules; poorly sorted; subangular; light olive brown (2.5y 5/4)
255'	Gravelly silty sand (gmS); very fine to very coarse sand with silt and granule to small pebble-sized gravel; poorly sorted; subangular; yellowish brown (10yR 5/4)
260'	Sandy silty clay (sM); clay with silt and medium to very coarse sand; poorly sorted; subangular; light olive brown (2.5y 5/4)
270' c	clay (c); clay; well sorted; Roundness → N/A; light olive brown (2.5y 5/4)
280'	Silty sandy gravel (msG); granules with very fine sand to very coarse sand and silt; poorly sorted; subangular; olive brown (2.5y 4/3)
288'	Sandy silt (sZ); silt with coarse to very coarse sand; poorly sorted; subangular; olive brown (2.5y 4/4)
300'	Gravelly silty sand (gmS); medium to very coarse sand with silt and granules; poorly sorted; subangular; dark yellowish brown (10yR 4/6)
310'	Gravelly sandy silt ((g)sM); silt with medium to very coarse sand and granules; poorly sorted; subangular; light olive brown (2.5y 5/4)
320'	Silty sandy Gravel (msG); granule to small pebble-sized gravel with coarse to very coarse sand and silt; poorly sorted; Angular to subangular; light olive brown (2.5y 5/3)

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Drilled By: USGS WRRDU
Recorded By: A. BROWN

State Well ID: 1S/2W-36A2-5
Project Number:
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Sample Depth	Material Description
330'	Silty sandy GRAVEL (msG); GRANULES with COARSE to VERY COARSE SAND and silt; POORLY SORTED; SUBANGULAR; light olive BROWN (2.5y 5/3)
340'	Silty sandy GRAVEL (msG); GRANULES with COARSE to VERY COARSE SAND and silt; POORLY SORTED; SUBANGULAR; light olive BROWN (2.5y 5/3)
350'	GRAVELLY silty SAND (gmS); very fine to very COARSE SAND with silt and GRANULES; POORLY SORTED; SUBANGULAR; light olive BROWN (2.5y 5/3)
360'	SAME
370'	SAME
383'	SAME
390'	SAME
400'	SAME
410'	SAME
420'	SAME
430'	SAME
441' c	GRAVEL (G); GRANULE to LARGE PEBBLE-SIZED GRAVEL; MODERATELY SORTED; ANGULAR to SUBROUNDED; VARIOUS COLORS;
443.25' c	GRAVEL (G); GRANULE to LARGE PEBBLE-SIZED GRAVEL; MODERATELY SORTED; ANGULAR; VARIOUS COLORS.
452'	Silty sandy GRAVEL (msG); GRANULE to SMALL PEBBLE-SIZED GRAVEL with COARSE to VERY COARSE SAND and silt; POORLY SORTED; ANGULAR; light olive BROWN (2.5y 5/4)
460'	Silty sandy GRAVEL (msG); GRANULE to SMALL PEBBLE-SIZED GRAVEL with VERY fine to VERY COARSE SAND and silt; POORLY SORTED. ANGULAR to SUBANGULAR; light olive BROWN (2.5y 5/4)
470'	GRAVELLY SANDY silt (gsM); silt with VERY fine to VERY COARSE SAND and GRANULES; POORLY SORTED; ANGULAR to SUBROUNDED; light olive BROWN (2.5y 5/4)
480'	Silty SAND GRAVEL (msG); GRANULES with VERY fine to VERY COARSE SAND and silt. POORLY SORTED; ANGULAR to SUBANGULAR; light olive BROWN (2.5y 5/4)
490'	GRAVELLY SANDY silt (gsM); silt with VERY fine to VERY COARSE SAND and GRANULES; POORLY SORTED; ANGULAR to SUBANGULAR; olive BROWN (2.5y 4/3)
500'	GRAVELLY SANDY silt (gsM); silt with VERY fine to VERY COARSE SAND and GRANULES; POORLY SORTED; ANGULAR to SUBANGULAR; olive BROWN (2.5y 4/3

* c - denotes core shoe sample

Sample Depth	Material Description
510'	Silty sandy gravel (msG); granule to small pebble-sized gravel with very fine to very coarse sand and silt; poorly sorted; Angular to subangular; olive brown (2.5y 4/3)
520'	Gravel (G); granule to small pebble-sized gravel; well sorted; Angular to subangular; light olive brown (2.5y 5/3)
530'	Sandy gravel (sG); granule to small pebble-sized gravel with coarse to very coarse sand and minor silt; moderately sorted; Angular to subangular; light olive brown (2.5y 5/3)
540'	Clay (C); clay; very well sorted; roundness → N/A; dark yellowish brown (10yR 4/4)
550'	Gravelly sandy silt ((g)sM); silt with very fine to very coarse sand and granules; poorly sorted; Angular to subangular; olive brown (2.5y 4/3)
560'	Gravelly sandy clay ((g)sM); clay with very fine to very coarse sand and granules; poorly sorted; Angular to subangular; dark yellowish brown (10yR 4/6)
570'	Silty sandy gravel (msG); granules with very fine to very coarse sand and silt; poorly sorted; Angular to subangular; dark yellowish brown (10yR 4/4)
580'	Sandy clay (sC); clay with coarse to very coarse sand; poorly sorted; subangular; dark yellowish brown (10yR 4/6)
590'	Silty sandy gravel (msG); granules with very fine to very coarse sand and silt; poorly sorted; Angular to subangular; light olive brown (2.5y 5/4)
600'	Silty sandy gravel (msG); granules with very fine to very coarse sand and silt; poorly sorted; Angular to subangular; olive brown (2.5y 4/3)
606' c	Gravel (G); small to large pebble-sized gravel; moderately sorted; Angular to subrounded; various colors.
610'	Gravelly sandy silt ((g)sM); silt with very fine to very coarse sand and granules; poorly sorted; Angular to subangular; light olive brown (2.5y 5/3)
620'	Gravelly sandy silt ((g)sM); silt with very fine to very coarse sand and granules; poorly sorted; Angular to subAngular; light olive brown (2.5y 5/3)
640'	Silty sandy gravel (msG); granule to small pebble-sized gravel with very fine to very coarse sand and silt; poorly sorted; Angular to subangular; light olive brown (2.5y 5/3)
650'	Sandy silt (sZ); silt with very fine to very coarse sand; poorly sorted; subangular; olive brown (2.5 4/4)
660'	Sandy silt (sZ); silt with very fine to very coarse sand; poorly sorted; subangular; olive brown (2.5y 4/4)