ASSELIAN  UPPER  UPPER  WIDDLE  UPPER  TOURNASIAN  TOURNASIAN  UPPER  WIDDLE  TOURNASIAN  TOURNASIAN  UPPER  UPPER  TOURNASIAN  UUSTE  GEDINNIAN  UPPER  UPPER  CARADOCIAN  UPPER  TREMADOCIAN  UPPER  TREMADOCIAN  UPPER  TREMADOCIAN	CENOZOCIC  CRETACEOUS  SERIES/STAGES  HOLOCENE PLIOCENE P
146   145   155   156   166   165   167   175   175   175   175   176   180	SERIES/STAGES  -0.01  -1.72.8  -4.6 -
Tanton fin.  Teachors  Tanton	Plomosa and Dome Rock Mountains Area Southern Papago Reservat  CSD NO: 475 COL. 1 CSD NO: 475  R.A. KNEPP & S.J. REYNOLDS R.A. KNEPP & G. H. seolan deposits 0-5 Recent alluryima and Colorado River gravels 0-50  Bouse Fm. tuff bed <2 0-90  Copper Basin Fm. 400:  Copper Basin Fm. 750: Andesite of Sells Gene Canyon Fm. Andesite of Sells Gene Canyo
Scharrer Fm. 200  Scharrer Fm. 150 200  Scharrer Fm. 150 200  Sharrer Fm. 278 350  Colina Lt. 257  Fm. 200  Black Prince Lt. 50 30  Black Prince Lt. 50 30  Martin Fm. 80-100  Percha Sh. 61 100  Percha Sh. 61 100  Percha Sh. 61 100  Black Dince Lt. 50 30  Black Prince Lt	COL. 2 CSD NO: 475 COL. 3 CSD NO: 470  XEL R.A. KNEPP & S.J. REYNOLDS J. WRIGHT & S. THOM  stream and terrace deposits 0-35
Monte   130	COL. 4 CSD NO: 475 COL. 5 CSD NO: 475  MPSON III R.A. KNEPP & S.J. REYNOLDS J. WRIGHT & S  Recent and Pleistocene gravels gravels gravels flow  Desalt flow  Verde Fm.  O-50  Dry Beaver Creek gravels  D-200  Kneelin  Tuffl)  O-732  Rubio  Squaw Peak granddonte  Tuffl)  Squaw Peak granddonte  Cretaceous: intrusive in
Abo Fm.  System  Onweldo Fm.  213  System  Onweldo Fm.  224  255  198  Abo Fm.  Abo Fm.  Alaka Valley Fm.  256  198  Alaman Mbr. 70  Montoya Fm.  Montoya Fm.  Montoya Fm.  Montoya Fm.  Montoya Fm.  Montoya Fm.  Bi Paso Fm.  Bi Paso Fm.  15 Paso Fm.  16 Paso Fm.  17 Paso Fm.  18 Paso Fm.  198  198  198  198  198  198  198  19	COL. 6 CSD NO: 465 COL. 7 CSD NO. S. THOMPSON III D. WOLBERG S.C.  alluvium 0.30.5  Inary sediments ferentiated unnamed volcanic and sedimentary deposits  unnamed volcanic rocks  396-518  Inary Tuff 162  Inary Tuff 163  Inary Tuff 164  Inary Tuff 165  In
Alacen Mountain Ten Ten Ten Ten Ten Ten Ten Ten Ten Te	Franklin Mountain Cristo Rey Area  Organ Mountain Southern San Andre Mountain  No: 465 CU. 8  C. HOOK & D.V. LeMONE Nolson deposite 1500  Camp Rice Fm.  Fort Hancock Fm.  Fort Hancock Fm.  Black Hills Lave Drgan Batholith West Side Lava Soledad Riyolite Cueve Tuff  Orejon Andesite  Love Ranch Fm.  Tres Hermanos Mbr. 122  Mancos Sh.  Boquillas Fm. 10  Buda Ls. 12  Del Rio Clay 24 Anapara Ss. 67 Mexic Valley Ss. 38 Multers Fm. 15 Finley Ls. 130
Goat Seep 81 - Cherry Carryon Fm. 46-81 Brushy Carryon Fm. 46-81 Brushy Carryon Fm. 46-81 Brushy Carryon Fm. 274-395 Wictorio Peak 274-457 Bone Spring L. 274-459 Bone Spring L. 274-395 Huseco Fm. 31-452  11-572 undivided Pennsylvanian rocks 620 undivided Pennsylvanian rocks 620  Barnett Sh. 41  0-38  15-55  2-3  Unnamed Oberonian rocks 38  16-52  Fusselman Dol. 915-137 Pen Gods 38  18-52  El Paso Gp. 351  8-34  70-137 Woods All  18-39 Biss Fm. 30-5-58  0-0  8-34  18-30 Biss Fm. 30-5-58  0-0  8-34  18-34  70-137 Woods  18-34  18-35 Biss Fm. 30-5-58  0-0  18-36 B	COL. 9 CSD NO: 465 COL. 10 CSD NO: 43  O. WOLBERG D.  Undivided Quaternary Tertiary, sedimentary and volcanic rocks  152  305  2134  488  610  0.610
Bissett Cgl.  213  Tessey Tessey Ls.  305  Capitan Ls  Skinner Fm.  Sinner Fm.	Marathon-Bend Region  430 COL 11 CSD NO: 430 C  D. WOLBERG  J.M. HILLS  alluvium  South Rim Fm.  305-457  Chisos Fm. 457-793  Canoe Fm. 357  Hannold Hill Fm. 109-235  Black Peak Fm. 259  Javeline Fm. 259  Javeline Fm. 259  Javeline Fm. 259  Javeline Fm. 2144-396  Pen Fm. 67-183  San Vincente Mbr. 101-122  Emst Fm.  145  Buda Ls. 30.5  Del Rio Clay  Carroen Fm. 145  Buda Ls. 30.5  Del Rio Clay  Carroen Fm. 145  Sents Elena Ls. 229-259  Sue Peaks Fm. 23  Del Carroen Fm. 145  Gien Rose Ls. 183  Gien Rose Ls. 183  Gien Rose Ls.
300-500  300-500  80-350  30-90  San Andres Fm. 107  Giorete Sa. 70  Yeso Fm. 426  800  Abo Fm. 180  0-58  0-150  300  300  2000  2000  2000	J. WRIGHT & D. WOLBERG  J. WRIGHT & D. WOLBERG  Tertiary-Quaternary alluvium with Pleistocene basalt flows locally  volcanic and associated sedimentary rocks  Baca Fm.  113
Chinle Fm. 152-335  San Andres Fm. 43 Fm. 152-335  Yeso Fm. 274  Abo Fm. 274  Madere Ls. 15  Calosa Fm. 9,5	Puetecito-Landron Mountain Area  SD NO: 465  COL. 14  CSD NO: 465  J. WRIGHT & D. WOLBERG  Unnamed ialluvium  Santa Fe Gp.  470  Lower Santa Fe (Sierra Ladron  470  Lower Santa Fe (Popotosa Fm  Lower Santa Fe (Popotosa Fm  Lower Santa Fe (Popotosa Fm  Speara Fm. 396  Baca Fm. 396  Baca Fm. Baca Fm  Baca Fm. Baca Fm  Crevasse Canyon Fm. 320  Crevasse Canyon Fm. 320  Allego mbr. of Gallup Ss. 291  D-Cross Shale Tongue 67 Tonguer Tongue 17 Tonguer Tonguer 18 Tonguer Tonguer 18 Tonguer Tonguer 18 Tonguer
Dockum Fm.   15	COL. 15 CSD NO: 465 COL. 16  WOLBERG F.E. KOTTLOWSKI  ley-fill undivided Quaternary sediment  FE Group nes Fm.)  ssociated rocks  yon Fm. 317 is 20  Cross Shale longue 87 is Hermanos Mbr. 79  wer tongue 130
Capitals Fin.  Capita	Sacramento Mountains  CSD NO: 465  COL 17  CSD NO: 430  LC. PRAY  Undivided Quaternary sediment 549.  Santa Fe Group  Tertiary salls & dikes  Dakota Ss.  61  Edwards L  Trinity St
80	COL. 18 CSD NO: 430 COL. 19 CSD NATT  ART W.J. STEWART  Judkins Sand 0-100  Gatuna Fm. 50  Ogallata Gp.  O-100  O-30  Fedwards Ls.  O-50  Trinity Ss.  O-10  Trinity Ss.  O-10
Devey Lake Devey Lake Fin. 25-30 Rustler fin. 25-30	J.M. HILLS C.E. MEAR
13	COL. 21 CSD NO: 430 COL. 22 C.E. MEAR
Devey Lake Fm.  40  Ruster Fm.  40  Ruster Fm.  40  Ruster Fm.  40  Salado Fm.  400  Yates Ss.  400  Seven Rivers Fm.  200-300  Grayburg Fm.  100  San Andres Dol.  San Andres Dol.  San Andres Dol.  Fm.  Yeso Fm.  200  Drinkard Ss.  50  Virgil Gp.  400  Powow Cgl.  0-10  Abo Fm.  Nueco Ls.  200  Missouri Gp.  30  Des Moines Gp.  50  Atoka Gp.  50  Morrow Gp.  100  Wister Fm.  10-30  Montoya Dol.  O-50  O-50  Montoya Dol.  O-50	CSD NO: 430 COL. 23 CSD NO: 4  W.J. STEWART J.  Alluvium  Ogaliala Fm.  Ogaliala Fm.  Osal  intrusives and volcanics
Choice fm 130 g	CSD #360 - Anadarko Basin CSD #430 - Permian Basin CSD #435 - Palo Duro Basin CSD #440 - Amarillo Arch CSD #450 - Las Animas Arch CSD #465 - Orogrande Basin CSD #470 - Perdogosa Basin CSD #475 - Basin and Range
Blaine Gypsum 100 Glorieta Ss. 10 Glorieta Ss.	5 CSD NO: 440 COL. 26 CSD NO  J.M. HILLS  Ogaliala Fm. 0-15  NEW  13 14 CSD= 15 46  7 16  8 9
Cloud Covery Fin.  Ost Oberry Fin.  Ost	Ogaliala O-180 Ogaliala Fm.  CSD#450 CSD#450 CSD#450
Morrison   Fm.   0.90	01. 28 CSD NO: 360 COL. 29 CSD NO  G. MOORE  Mead Gp. 15-50  CSD # 360  28- 27 OKLAHOMA  25  435
Taloga   Fm.   25-65	Las Animas   Arch-Colorado
-1851701751801851901952002152202402452502552552552552552552552652	-0.011.72.8 -4.65.36.710.815.417232533414550556267-
BERRIASIAN TITHOMOSCO- VIAN  SAKMARIAN  ARTINSKIAN  ARTINSKIAN  SERPUK- HOVIAN  CARADOCIAN  LADINIAN  SERPUK- HOVIAN  SERPUK- HOVIAN  CARADOCIAN  LADINIAN  SERPUK- HOVIAN  SERPUK- HOVIAN  CARADOCIAN  LADINIAN  LOWER  TOURNIASIAN  LOWER  TOURNIASIAN  SERPUK- HOVIAN  CARADOCIAN  LUWER  CARADOCIAN  LUWER  TOURNIASIAN  LOWER  TOURNIASIAN  L	GLOBAL SERIES/STAGES    HOLOCENE   PLEISTOCENE   DIOCENE   DIOCENE
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ich ese ace to nn. the cal be not me ied ved nto the cal heir	T: