List ✓
Applied Lm ✓
d

P-W

[redacted]

U.S. BUREAU OF RECLAMATION ELOY-CAP
NW/NW Sec 31-T7S-R3E, Pinal 11-13

[redacted]

32 ×

4

County Pinal

Area Eloy

Lease No.

Well Name U. S. Bureau of Reclamation - ~~Central Arizona Project Hole~~ Eloy-Cap D-7-8 [redacted]

Location NW/NW Sec 31 Twp 7S Range 8E Footage

Elev ±1580/Eloy Gr KB ±1534/Eloy no. 7½ Spud Date 2-1-65 Completed ~~Abandoned~~ 2-17-65 log date Total Depth 828' in silty clay.

Contractor

Drilled by Rotary X
Cable Tool

Casing Size	Depth	Cement
6"	820'	

Production Horizon

Initial Production

REMARKS Ground Water Test Hole; Perf 560'-580'. - silty sand zone.
Cored 40'-50', 60-70', 90'-100', 140'-150', 190'-200', 240'-250', 290'-828'.

Elec Logs Condensed Graphic Log: ~~Electric log:~~

Applic. to Plug Plugging Record Completion Report

Sample Log
Sample Descript.
Sample Set NNA
Core ~~Analysis~~
DSTs

Water well accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

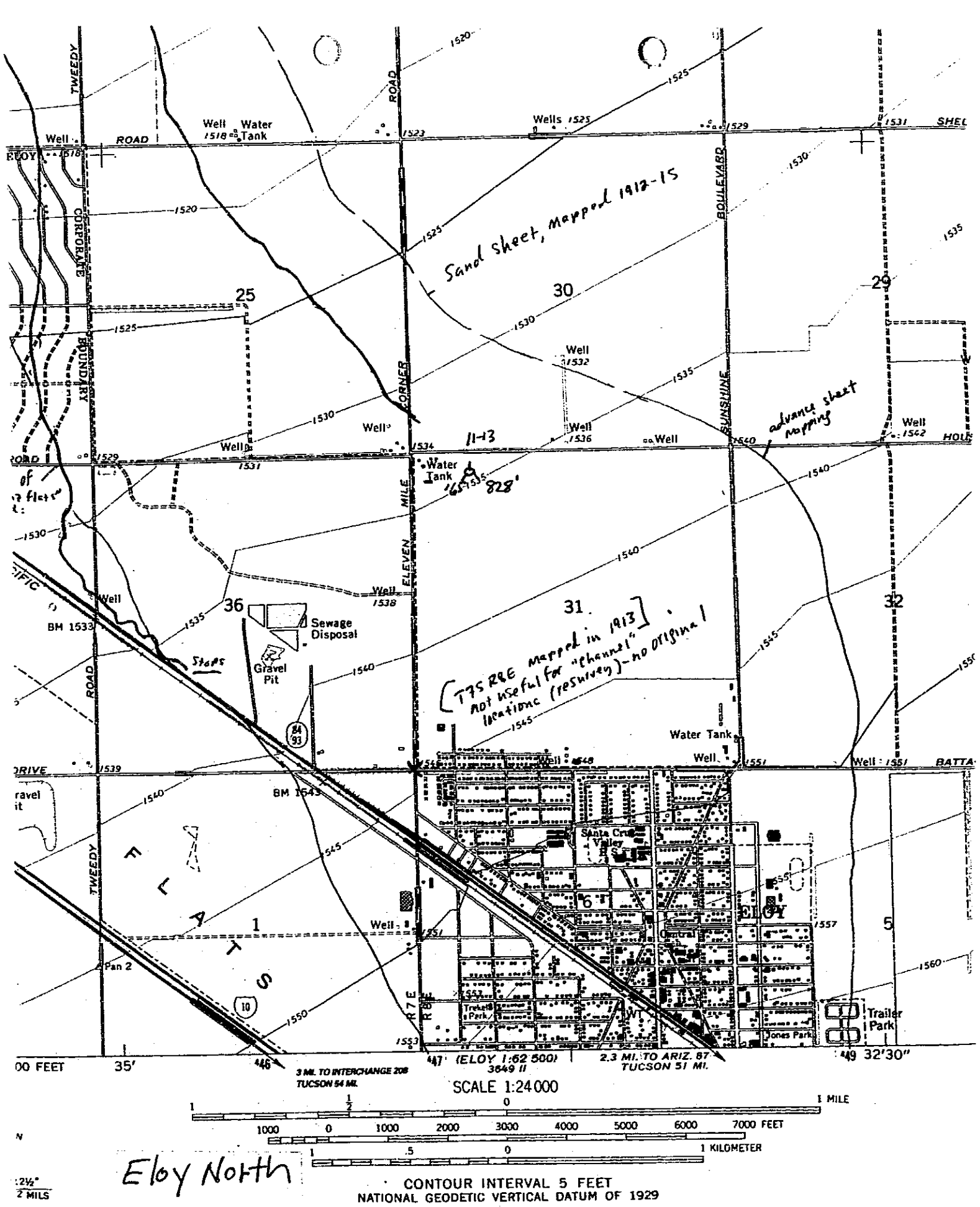
Filing Receipt Dated Well Book Plat Book

API No. 02-021-05032 Loc. Plat Dedication

Permit Number None Date Issued

11-13

32 × [redacted]


TWEEDY ROAD
CORPORATE BOUNDARY
ELEVEN MILE CORNER
SUNSHINE BOULEVARD
Sand sheet, Mapped 1912-15
advance sheet mapping
[T7S R8E Mapped in 1913] not useful for "channel" locations (resurvey) - no original
Sewage Disposal
Gravel Pit
Stops
Water Tank
Wells
Well
BM 1533
BM 1543
Santa Cruz Valley H.S.
ELOY
Central
Trekell Park
Jones Park
Trailer Park
FLATS
3 MI. TO INTERCHANGE 208 TUCSON 54 MI.
(ELOY 1:62 500) 3649 II
2.3 MI. TO ARIZ. 87 TUCSON 51 MI.
SCALE 1:24000
1 MILE
7000 FEET
1 KILOMETER
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
Eloy North

FORM R-3

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
INVINTORY OF HYDROLOGIC DATA STATIONS
GROUND WATER

Oil # 11-13

1. AGENCY CODE	2. TYPE	3. LATITUDE	4. LONGITUDE	5.
BR	G	32° 46' 57 "N	111° 33' 46 "W	

6. AGENCY STATION NUMBER AND NAME

(D-7-8) 31 bba Eloy Compaction

7. DRAINAGE BASIN CODE No.	Letter	8. STATE CODE	9. COUNTY CODE	10. COUNTY NAME
60	I	002	021	Pinal

11. PERIOD OF RECORD (YEAR)
Began | Discontinued | Y☐ Interruption Excess 1 Year

12. ALTITUDE AT STATION DETERMINED BY
☐1 Spirit Level or Transit ☒3 Topographic Map
☐2 Altimeter or Hand Level ☐4 Not Determined

13. TYPE OF STATION
☒105 Well ☐107 Spring

14a. MEASUREMENT OF WATER LEVEL OR PRESSURE HEAD
☒381 Nonpumping ☐382 Pumping

b. MEASUREMENT OF DISCHARGE OR RECHARGE
☐425 Natural Flow
☐426 Pumpage
☐427 Recharge

15. FREQUENCY
☒432 Continuous Recorder ☐437 Quarterly
☐433 Telemetered ☐438 Semiannual
☐434 Daily ☐439 Annual
☐435 Weekly ☐440 Other Periodic
☒436 Monthly

16. DOES MEASUREMENT CHECKED IN BLOCK 14 REFLECT OUTSIDE, SHORT-TERM, CYCLIC OR INTERMITTENT WITHDRAWAL OR RECHARGE
☒445 Yes ☐446 No

17. SUPPLEMENTARY DATA AVAILABLE FOR STATION
☐451 Total Annual Pumpage or Flow
☐452 Specific Capacity
☐453 Water Quality, Recurring Measurement
☒454 Water Quality, Non-Recurring Measurement
☒455 Depth of Well
☒456 Casing Record
☒457 Screen Record
☒458 Driller's Log
☒459 Geologic Log
☒460 Instrument Log
☐461 Coef. of Permeability, Transmissibility or Storage (By Field Methods)

☐462 Nonpumping Water Level or Pressure Head Measurement (Leave blank if 381 checked)
☒463 Pumping Water Level or Pressure Head Measurement (Leave blank if 382 checked)
☐464 Natural Flow or Pumpage Measurement (Leave blank if 425 or 426 checked)
☐465 Recharge Measurement (Leave blank if 427 checked)

18. STORAGE OF DATA (REFERS TO ITEM 14)
☐501 Published ☐503 Data on Punchcard ☐505 Other
☒502 Not Published ☐504 Data on Magnetic Tape

19a. INQUIRIES ABOUT DATA SHOULD BE SENT TO:
Office U.S. Bureau of Reclamation, Phoenix Development Office
Street No. 135 North Second Avenue, Room 524
City, State, Zip Phoenix, Arizona 85003 | City Code

b. DATA ARE AVAILABLE TO PUBLIC ON REQUEST ☒Yes ☐No

20. OFFICE COMPLETING FORM
Same

21. COMPILER'S NAME
Chief, Geology Division

22. DATE Month 10 Year 19 61

32 ×

(D-7-8)31 bba

Form No. PHD-20 - Rev.
July 1964

BUREAU OF RECLAMATION
SOILS LABORATORY
PHOENIX, ARIZONA
REPORT OF WATER ANALYSIS

Date 4-28-65
Analyzed by B.R., D.S.
Checked by H.E.B.

LAB. NO.	COLLECTOR'S NAME	SAMPLING DATE	SOURCE	LOCATION	IRRIGATION WATER CLASS U.S. REG. SAL. LAB.
31	USBR JDR	2/26/65 1900	Well - temp. 80° F -	(D-7-8) 31bba test hole after bailing 1500 gals	
32	USBR Getsman	4/12/65	Well test Pumped for 48 hrs. Off	(B-4-1) 25 ccc KX10^6-570, Temp. 68° F. for 48 hrs. Pumped for 2 hrs.	

Lab. No.	ECx10^6 at 25°C	pH	Total solids ppm	Na% Found	Na% Possible		Residual Na_2CO_3	CATIONS Na	Ca	Mg	K	ANIONS CO_3	HCO_3	SO_4	Cl	NO_3	B	F	TOTAL Cations me/L	Anions me/L
31	610	8.1	448	77	98	me	2.53	5.65	1.00	0.52	0.13	0	4.05	1.47	1.4				7.30	6.92
						ppm	134	130	20.0	6.2	5.1		247	70.1	49.6		0.05	<.20		
32	560	8.0	338	75	97	me	2.35	4.38	0.96	0.34	0.13	0	3.65	1.50	1.0				5.81	6.15
						ppm	125	101	19.2	4.1	5.1		223	72.0	35.5		0.05	<.20		
						me														
						ppm														
						me														
						ppm														
						me														
						ppm														
						me														
						ppm														
						me														
						ppm														

32 x

Form No. PHD-22
July 1963

31-7s-8e

11-13 #11-13

P-W

U.S.B. of R. Eloy-Cap

Sheet 1 of 2

CONDENSED GRAPHIC LOG OF GROUND WATER TEST HOLE

PROJECT CENTRAL ARIZONA PROJECT (SUBSIDENCE STUDIES) STATE ARIZONA

HOLE NO. (D-7-8) 31bba "Eloy" 4/19/65 B.M. 1535.752 GROUND ELEVATION 1,540± 1535

BEGUN February 1, 1965 FINISHED February 17, 1965 TOTAL DEPTH 828'

DEPTH OR ELEVATION OF WATER TABLE 1,260± HOLE LOGGED BY Ford

TYPE OF SAMPLE	DEPTH	PIEZOMETER DATA	LOG	CLASSIFICATION AND PHYSICAL CONDITION
CT-D, CR, CR, CT-D, CR	100	6" casing from 0' to 820'		0'-116': Silty sand--reddish brown to brown, loose to semiconsolidated, sand varies from well-sorted fine to fine to coarse sand, low to moderate plasticity fines are found throughout the sand and in silt or clayey silt zones; cored intervals had very little gravel but gravel probably is scattered in the coarser sand zones; 99'-100' is a zone of altered volcanic ash mixed with clay, hard caliche cemented zones are scattered throughout, reaction to HCl varies from weak to strong depending upon the amount of caliche present.
CT-D, CR, CT-D, CR, CT-D, CR, CT-D	200, 300			116'-130': Sand and gravel--loose, subrounded to subangular, probably fine to coarse sand and gravel, silty.
				130'-159': Silty sand - sandy silt--reddish brown with some black mottling, loose to moderately indurated, probably a silty sand at the top to clayey silt below 140', sporadic caliche zones.
				159'-236': Silty sand and gravel--brown to reddish brown, generally loose to semiconsolidated, sand varies from well sorted fine, to fine to coarse, gravel probably mixed with coarser sand zones, subrounded to subangular, low to moderate plasticity fines throughout and in thin clayey silt zones, hard caliche cemented zones throughout.
				236'-337': Silty sand - sandy silt--brown to reddish brown with black mottling, loose to moderately indurated, alternating zones of silty fine or fine to medium sand with some coarse, and low to moderate plasticity silt or clayey silt containing fine sand, the sand is subrounded to subangular, quartzose with mica and feldspars, weak horizontal bedding, many hard caliche cemented zones, possible relic soil zone at 310' generally weak reaction to HCl.
	400			337'-381': Silty sand and gravel--brown, loose to semiconsolidated, sand generally fine to medium with some coarse, subrounded to subangular, quartzose with feldspar and much mica, contains low to moderate plasticity fines, weak apparent bedding from horizontal to dipping 10°, subrounded gravel to 2" in zones: 335', 342'-355', 379'-381', numerous thin caliche zones, generally weak reaction to HCl except where caliche is present.
	500			381'-413': Sandy - clayey silt--brown to reddish brown with black mottling, moderately indurated, alternating zones of clayey silt, sandy silt, and silty fine sand, fines are low to moderate plasticity, numerous caliche zones, moderate reaction to HCl.
		1		413'-433': Silty sand and gravel--brown, loose to semiconsolidated, sand fine to medium to coarse, quartzose with feldspar and mica, subrounded to subangular, sand contains much low to moderate plasticity fines throughout gravel to 1½" from 420'-427' also at 430', thin caliche zones, generally no to very weak reaction to HCl.
CR	600			433'-443': Clayey silt--reddish brown with black mottling, moderately indurated, low to moderate plasticity, traces of fine sand with silty sand zones, generally mild reaction to HCl except at thin caliche zones.
	700			443'-480': Silty - gravelly sand--brown to reddish brown, loose to semiconsolidated; generally fine to medium with sporadic well-graded zones, subrounded to subangular, quartzose with much mica and feldspars, low to moderate plasticity fines throughout and in thin sandy silt zones at 455'-457' and 463'-464', gravel to 1½" in sand at 444.5' and 450'-455'; and 460'-480'; sporadic thin zones of caliche, generally weak to no reaction to HCl.
	800			480'-492': Clayey silt - silty clay--reddish brown with black mottling, moderately indurated, low to moderate plasticity, traces of fine sand and a thin zone of medium to coarse sand at 480', thin caliche zones, generally moderate reaction to HCl.
				492'-500': Silty sand--brown, loose to semiconsolidated, generally fine sand, coarse sand with gravel to 2" at 492', low to moderate plasticity fines throughout, strong caliche at 500'.
	900			500'-504': Clayey silt--reddish brown with black mottling, moderately indurated, low plasticity, moderate reaction to HCl.
	1000			

CR = CORE
CT = CUTTINGS
D = DRILLERS LOG

CLAY & CEMENT PACKER
BOTTOM OF PIEZOMETER TUBE & SUFFIX NUMBER 2
D DENSITY SAMPLE
P PERMEABILITY SAMPLE
M MOISTURE SAMPLE

Sand
Gravel
Silt
Clay
Volcanic Ash
C Consolidation Sample

HOLE NO. (D-7-8) 31bba

32 x 1

25 x 1

BUREAU OF RECLAMATION ELOY-CAP
Final 11-13

Form No. PHD-22
July 1963

11-13

CONDENSED GRAPHIC LOG OF GROUND WATER TEST HOLE

PROJECT CENTRAL ARIZONA PROJECT (SUBSIDENCE STUDIES) (Eloy) STATE ARIZONA
HOLE NO. (D-7-8) 31bba GROUND ELEVATION 1,540±
BEGUN February 1, 1965 FINISHED February 17, 1965 TOTAL DEPTH 828'
DEPTH OR ELEVATION OF WATER TABLE 1,260± Elev. HOLE LOGGED BY Ford

TYPE OF SAMPLE	DEPTH	PIEZOMETER DATA	SAMPLES FOR TESTING	LOG	CLASSIFICATION AND PHYSICAL CONDITION
					504'-510': Silty sand--brown, loose to semiconsolidated, varies from well sorted fine to fine-coarse, subangular to subrounded, low to moderate plasticity fines throughout, thin caliche zones, generally weak to moderate reaction to HCl.
					510'-542': Clayey silt - silty clay--reddish brown with black mottling, moderately indurated, low to moderate plasticity, traces of fine sand and thin silty sand zones, thin caliche zones, weak to moderate reaction to HCl.
					542'-572': Silty sand--brown, loose to semiconsolidated, varies from well sorted fine to fine-coarse, quartzose with feldspars, mica and magnetite, weak apparent horizontal bedding, low to moderate plasticity fines present throughout and in thin clayey silt zones 552'-553.5' and 559'-563', weak to moderate reaction to HCl.
					572'-608': Clayey silt - silty sand--reddish-greyish brown with grey and green zones, moderately indurated, alternating thin zones of clayey-sandy silt and silty sand, sand is fine to medium, shows apparent bedding from horizontal to dipping 10°, very weak to no reaction to HCl, silt is generally low plasticity, contains much fine sand, weak reaction to HCl.
					608'-640': Clayey silt - silty clay--reddish brown with black mottling, moderately indurated, low to moderate plasticity, traces of fine sand, very thin silty sand zones which show horizontal parting, apparent horizontal bedding, thin caliche zones, weak to moderate reaction to HCl.
					640'-748': Clayey silt - silty sand--reddish-greyish brown with some black mottling and some greenish and grey zones, moderately indurated, alternating zones of clayey-sandy silt and silty sand, sand is mostly well sorted fine sand occasionally medium, quartzose with feldspars, mica and some magnetite, apparent bedding from horizontal to dipping 10°, horizontal parting, contains much low plasticity fines, weak reaction to HCl, clayey silt is more compact, low to moderate plasticity, contains fine sand, weak reaction to HCl, thin caliche zones throughout react moderately to HCl.
					748'-778': Clayey silt - silt--reddish brown to grey, moderately indurated, alternating thin zones of reddish brown, low to moderate plasticity clayey silt and of grey, nonplastic silt containing very fine sand, thin horizontal bedding, generally moderate reaction to HCl.
					778'-828': Clayey silt - silty clay--reddish brown to grey with green and grey mottling, more indurated than any of above, scattered horizontal laminae, low to moderate plasticity, traces of fine sand, thin silty sand zones 821'-821.5' and 822.5'-823.5', altered volcanic ash zone 778.5'-779.4', generally moderate reaction to HCl.

1 The casing section 560' to 580' has 8 rows of torch perforations, 3/16" X 3" slots, 2 slots per. ft.

Note: A 6" representative sample was taken from 53 of the 10' cored intervals.

CR = CORE
CT = CUTTINGS
D = DRILLERS LOG

CLAY & CEMENT PACKER
2 BOTTOM OF PIEZOMETER TUBE & SUFFIX NUMBER

D DENSITY SAMPLE
P PERMEABILITY SAMPLE
M MOISTURE SAMPLE

Sand
Gravel
Silt
Clay
Volcanic Ash
C Consolidation Sample

BUREAU OF RECLAMATION ELOY-CAP
Photo 1173