U.S. BUREAU OF RECLAMATION-CAP #B-4-1
Sec. 25-T4N-R1W MARICOPA COUNTY 7-16

7-16

13

Strat Test

County Maricopa

Area

Lease No.

Well Name U. S. Bureau of Reclamation - Central Arizona Project Hole #(B-4-1)

Location SW/SW Sec 25 Twp 4N Range 1W Footage est. 330fsl 330fwl

Elev 1,208'Gr KB Spud Date 3-10-65 Completed 4-7-65 Total Depth 1,990'

Contractor

Drilled by Rotary
Cable Tool

Casing Size	Depth	Cement

Production Horizon

Initial Production

REMARKS Ground Water Test Hole;

Elec Logs Condensed Graphic Log;

Applic. to Plug ___ Plugging Record ___ Completion Report ___

Sample Log
Sample Descript.
Sample Set
Core Analysis
DSTs

Water well accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

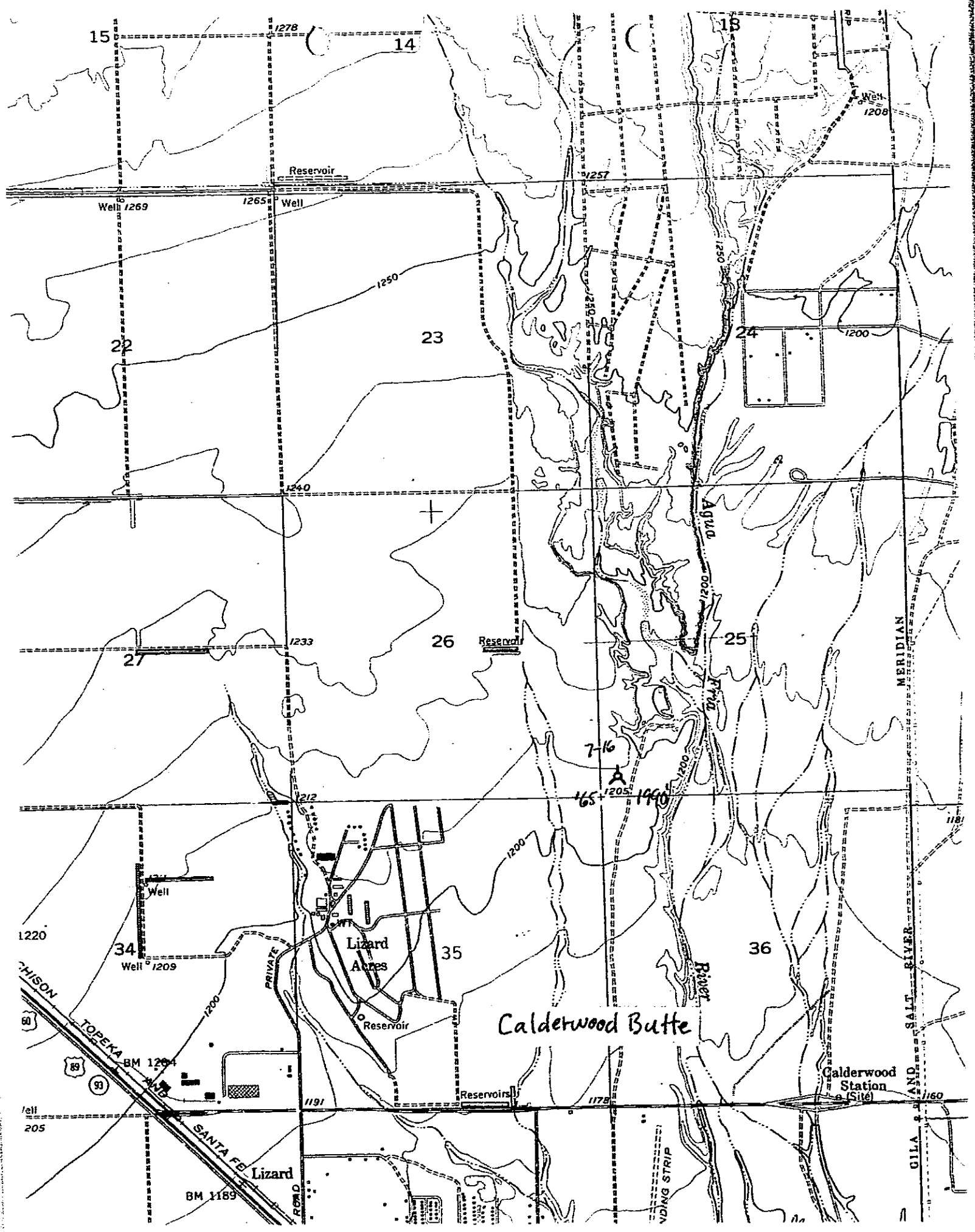
Filing Receipt Dated Well Book ___ Plat Book ___

Loc. Plat ___ Dedication

API No. 02-013-05047

Permit Number None Date Issued

7-16


15
14
13
Well 1208
Reservoir
1278
1257
Well 1269
1265
Well
1250
22
23
24
1200
1240
Agua
26
Reservoir
25
27
1233
MERIDIAN
7-16
1205
165
1990
1212
1200
1181
Well
1220
34
Well 1209
Lizard Acres
35
36
PRIVATE
River
Reservoir
Calderwood Butte
TOPEKA
BM 1204
Calderwood Station (Site)
Reservoirs
1191
1178
1160
SALT RIVER
GILA
SANTA FE
Lizard
BM 1189
ROAD
VIDING STRIP

FORM A-3

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

#7-16

1. AGENCY CODE	2. TYPE	3. LATITUDE	4. LONGITUDE	5.
BR	G	33° 39' 12"N	112° 19' 24"W	

6. AGENCY STATION NUMBER AND NAME

(B-4-1) 25 ccc El Mirage

7. DRAINAGE BASIN CODE No.	Letter	8. STATE CODE	9. COUNTY CODE	10. COUNTY NAME
60	0	002	013	Maricopa

11. PERIOD OF RECORD (YEAR)
Began 1965 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 67

(B-4-1) 25ccc

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 for 48 hrs. Pumped for 2 hrs.	(B-4-1) 25 ccc KX10^6-570, Temp. 68° F.	

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														

25-4N-1w
Maricopa, Az

Form No. PHD-22
July 1963

NP 7-16

CONDENSED GRAPHIC LOG OF GROUND WATER TEST HOLE

PROJECT CENTRAL ARIZONA PROJECT STATE ARIZONA
HOLE NO. (B-4-1) 25ccc 13 GROUND ELEVATION 1,208'
BEGUN March 10, 1965 FINISHED April 7, 1965 TOTAL DEPTH 1,990'
DEPTH OR ELEVATION OF WATER TABLE 305.1' HOLE LOGGED BY F.W. Carver

TYPE OF SAMPLE	DEPTH	PIEZOMETER DATA	SAMPLES FOR TESTING	LOG	CLASSIFICATION AND PHYSICAL CONDITION
CT & D	100, 200, 300				0'-2': Silty Sand and Gravel—reddish brown, loose, ill sorted, fine to coarse silty sand and gravel up to 2" diameter, mostly subrounded to subangular fragments. Gravels are predominantly volcanic, frequently coated by calcite that gives a strong reaction to acid. Loose silt and sand contains some caliche that gives a weak reaction to acid. 2'-48': Gravel and Sand—reddish brown, cemented to loose, ill sorted, fine to coarse sand and gravel with scattered boulders up to 6" or more in diameter, rounded to subangular; some material is cemented by caliche that gives a moderate to strong reaction to acid. 48'-63': Sandy Silt and Clay—reddish brown, cemented to loose, fairly well sorted, fine sand and silt or clay with lenses of sand and gravel; contains caliche that gives a moderate reaction to acid. 63'-78': Silty to Sandy Clay—reddish brown, fairly tight to loose, fairly well sorted, clay and silt with lenses of medium-fine sand and scattered fine gravel, no reaction to acid. 78'-93': Sand and Gravel—loose, poorly sorted, medium to coarse sand and gravel up to ½" diameter, subrounded to angular fragments, mixture of granitic and volcanic rock types, no reaction to acid. 93-136': Silty Sand—pale reddish brown, soft and loose, quite well sorted silty sand, lenses of fine to coarse sand and gravel, and sandy silt or clay, subangular to subrounded, largely granitic, scattered mica flakes, no reaction to acid. 136'-310': Sand— reddish brown, soft and loose, fairly well sorted, medium-fine sand with lenses of sandy silt and coarse sand and gravel with scattered boulders, subangular to subrounded, predominantly granitic with scattered mica flakes, no reaction to acid.
CR			D		
CT & D	400				310'-865': Silty Sand—reddish brown, soft and loose to cemented and tight, well to poorly sorted fine silty sand interbedded with medium-coarse sand and gravel and occasional cobbles up to 4" diameter, generally subrounded to subangular, predominantly granitic, cintaining scattered mica flakes and magnetite often concentrated in irregular dark streaks and other dark accessory minerals; 30% to 50% volcanic rock types including scattered fragments of volcanic ash and tuff below 840'; lenses of material are cemented by caliche that gives a moderate to strong reaction to acid, little or no reaction in the remainder of core; in some zones calcite crystals infrequently coats gravel.
CR					
CT & D	500, 600				
CR			D		
CT & D	700		D		
CR					
CT & D			D		
CR					
CT & D	800		P D M		
CR					
CT & D			D		865'-1,390': Sand and Gravel—reddish to grayish brown, soft and loose to cemented and tight, well to poorly sorted, fine to medium interbedded with coarse sands and gravel with occasional cobbles up to 7" or more in diameter, generally subrounded to subangular, predominantly granitic above 1040'; predominantly volcanic rock types below 1,040'; containing scattered mica flakes and magnetite often concentrated in dark irregular streaks and small amounts of volcanic ash increasing in quantity below 1,040'.
CR	900				
CT & D					
CR					
CT & L			D		
CR	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 and Gravel
Sand
Silt
Clay

HOLE NO. (B-4-1) 25ccc

U.S. BUREAU OF RECLAMATION-CAP #B-4-1
Sec. 25-T4N-R1W MARICOPA COUNTY 7-16

25-4N-1W
Maricopa, Az

Form No. PHD-22
July 1963

NP 7-16

CONDENSED GRAPHIC LOG OF GROUND WATER TEST HOLE

PROJECT CENTRAL ARIZONA PROJECT STATE ARIZONA

HOLE NO. (B-4-1) 25ccc 13 GROUND ELEVATION 1,208'

BEGUN March 10, 1965 FINISHED April 7, 1965 TOTAL DEPTH 1,990'

DEPTH OR ELEVATION OF WATER TABLE 305.1' HOLE LOGGED BY F.W. Carver

TYPE OF SAMPLE	DEPTH	PIEZOMETER DATA	SAMPLES FOR TESTING	LOG	CLASSIFICATION AND PHYSICAL CONDITION
CT & D	100, 200, 300				0'-2': Silty Sand and Gravel—reddish brown, loose, ill sorted, fine to coarse silty sand and gravel up to 2" diameter, mostly subrounded to subangular fragments. Gravels are predominantly volcanic, frequently coated by calcite that gives a strong reaction to acid. Loose silt and sand contains some caliche that gives a weak reaction to acid. 2'-48': Gravel and Sand—reddish brown, cemented to loose, ill sorted, fine to coarse sand and gravel with scattered boulders up to 6" or more in diameter, rounded to subangular; some material is cemented by caliche that gives a moderate to strong reaction to acid. 48'-63': Sandy Silt and Clay—reddish brown, cemented to loose, fairly well sorted, fine sand and silt or clay with lenses of sand and gravel; contains caliche that gives a moderate reaction to acid. 63'-78': Silty to Sandy Clay—reddish brown, fairly tight to loose, fairly well sorted, clay and silt with lenses of medium-fine sand and scattered fine gravel, no reaction to acid. 78'-93': Sand and Gravel—loose, poorly sorted, medium to coarse sand and gravel up to ¼" diameter, subrounded to angular fragments, mixture of granitic and volcanic rock types, no reaction to acid. 93-136': Silty Sand—pale reddish brown, soft and loose, quite well sorted silty sand, lenses of fine to coarse sand and gravel, and sandy silt or clay, subangular to subrounded, largely granitic, scattered mica flakes, no reaction to acid. 136'-310': Sand— reddish brown, soft and loose, fairly well sorted, medium-fine sand with lenses of sandy silt and coarse sand and gravel with scattered boulders, subangular to subrounded, predominantly granitic with scattered mica flakes, no reaction to acid.
CR, CT & D	400		D		310'-865': Silty Sand—reddish brown, soft and loose to cemented and tight, well to poorly sorted fine silty sand interbedded with medium-coarse sand and gravel and occasional cobbles up to 4" diameter, generally subrounded to subangular, predominantly granitic, cintaining scattered mica flakes and magnetite often concentrated in irregular dark streaks and other dark accessory minerals; 30% to 50% volcanic rock types including scattered fragments of volcanic ash and tuff below 840'; lenses of material are cemented by caliche that gives a moderate to strong reaction to acid, little or no reaction in the remainder of core; in some zones calcite crystals infrequently coats gravel.
CR, CT & D	500				
CR, CT & D	600		D		
CR, CT & D	700		D		
CR, CT & D			D		
CR, CT & D	800		P D M		
CR, CT & D	900		D		865'-1,390': Sand and Gravel—reddish to grayish brown, soft and loose to cemented and tight, well to poorly sorted, fine to medium interbedded with coarse sands and gravel with occasional cobbles up to 7" or more in diameter, generally subrounded to subangular, predominantly granitic above 1040'; predominantly volcanic rock types below 1,040'; containing scattered mica flakes and magnetite often concentrated in dark irregular streaks and small amounts of volcanic ash increasing in quantity below 1,040'.
CR, CT & L, CR	1000		D		

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 and Gravel
Sand
Silt
Clay

HOLE NO. (B-4-1) 25ccc

U.S. BUREAU OF RECLAMATION-CAP #B-4-1
Sec. 25-T4N-R1W MARICOPA COUNTY 7-16

Form No. PHD-22
July 1963

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BEGUN March 10, 1965 FINISHED April 7, 1965 TOTAL DEPTH 1,990'

DEPTH OR ELEVATION OF WATER TABLE 305.1' HOLE LOGGED BY F.W. Carver

TYPE OF SAMPLE	DEPTH	PIEZOMETER DATA	SAMPLES FOR TESTING	LOG	CLASSIFICATION AND PHYSICAL CONDITION
CT & D					
CR					
CT & D					
CR	1100				
CT & D					
CR					
CT & D	1200				
CR					
CT & D	1300				
	1400				1,390'-1,402': Sandy Silt--reddish brown, fairly loose to friable, poorly sorted silt and fine to medium sand, subangular to subrounded, predominantly volcanic, contains scattered mica flakes, magnetite and scattered dark accessory minerals, cemented by caliche that gives a moderate reaction to acid.
CR					1,402'-1,990': Silty Sand and Gravel--reddish to grayish brown, somewhat loose to friable to fairly tight, poorly sorted very fine to coarse silty sand with lenses of gravel up to 1-½" diameter, mostly volcanic rock types, contains scattered mica flakes, magnetite, limonite and considerable amount of volcanic ash and tuff; contains some caliche in zones and thin lenses that give a moderate to strong reaction to acid--little or no reaction elsewhere. Material also contains calcite crystals which frequently coats gravel.
CT & D	1500				
CR					
CT & D					1,535'-1,648': Sand and Gravel--reddish brown, loose, poorly sorted, medium-coarse sand and gravel 1-½" or more in diameter with lenses of fine silty sand.
CR					
CT & D	1600				
CR					
	1700				
	1800				
	1900				
	2000				1,970'-1,990': Sand and Gravel--loose, poorly sorted, fine to coarse sand and gravel.

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

HOLE NO. (B-4-1) 25ccc

U.S. BUREAU OF RECLAMATION-CAP #B-4-1
Sec. 25-T4N-R1W MARICOPA COUNTY 7-1-