U.S. BUR. OF RECLAMATION-CAP #A-1-3
Sec. 13-T1N-R3E MARICOPA COUNTY 7-3

10.

County Maricopa

Area

Lease No.

Well Name U. S. Bureau of Reclamation -Central Arizona Project Hole #(A-1-3)

Location NW SE Sec 13 Twp 1N Range 3E Footage est. 2310 fsl 2310 fel

Elev 1115'± Gr KB Spud Date 10-13-64 Completed ~~Abandoned~~ 10-28-64 Total Depth 757'

Contractor

Drilled by Rotary
Cable Tool

Casing Size	Depth	Cement

Production Horizon

Initial Production

REMARKS Ground Water Test Hole

Elec Logs Condensed Graphic Log: not in file

Applic. to Plug Plugging Record Completion Report

Sample Log
Sample Descript.
Sample Set NNA
Core Analysis
DSTs

Water well accepted by

Bond Co. & No.

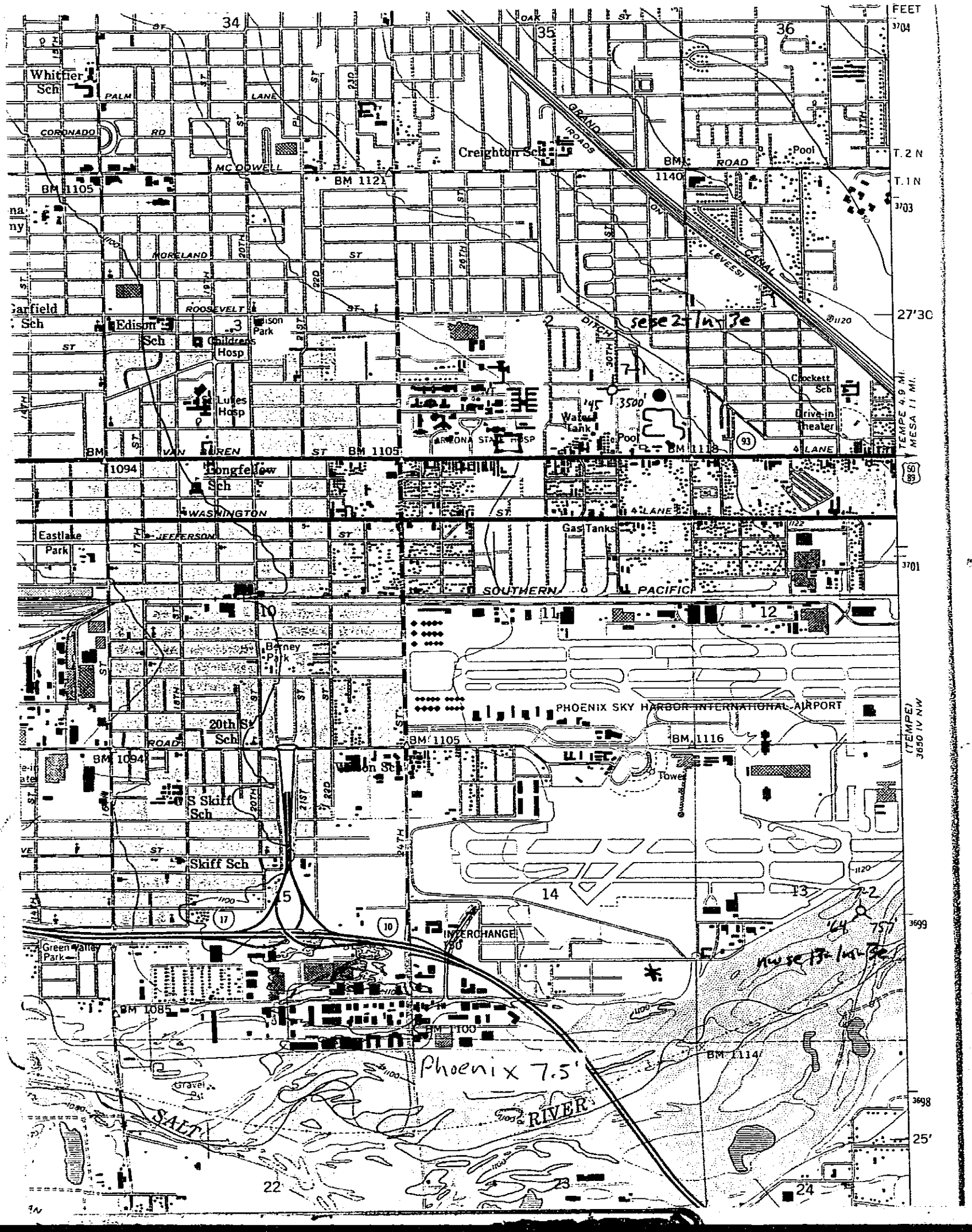
Bond Am't $ Cancelled Date Organization Report

Filing Receipt Dated Well Book Plat Book

API No. 02-013-05044 Loc. Plat Dedication

Permit Number None Date Issued

7-2



Whittier Sch
PALM LANE
CORONADO RD
MC DOWELL
Creighton Sch
GRAND CANAL
ROAD
Pool
T. 2 N
T. 1 N
BM 1105
BM 1121
BM 1140
MORELAND ST
ROOSEVELT ST
Garfield Sch
Edison Sch
Childrens Hosp
Edison Park
DITCH
sese 2-1n-3e
Lukes Hosp
Crockett Sch
Drive-in Theater
Water Tank
ARIZONA STATE HOSP
BM 1118
VAN BUREN ST
BM 1105
4 LANE
Longfellow Sch
WASHINGTON ST
Eastlake Park
JEFFERSON ST
Gas Tanks
SOUTHERN PACIFIC
Berney Park
PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
20th St Sch
BM 1105
BM 1116
BM 1094
Tower
S Skiff Sch
Skiff Sch
INTERCHANGE
Green Valley Park
BM 1085
BM 1100
BM 1114
Phoenix 7.5'
Gravel Pit
SALT RIVER
TEMPE 4.9 MI.
MESA 11 MI.
(TEMPE) 3650 IV NW
FEET
27'30
25'

FORM A-3

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

#7-2

1. AGENCY CODE	2. TYPE	3. LATITUDE	4. LONGITUDE	5.
BR	G	33° 25' 40"N	112° 00' 06"W	

6. AGENCY STATION NUMBER AND NAME
(A-1-3) 13 cbb Phoenix Airport

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

11. PERIOD OF RECORD (YEAR)
Began 1964 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

Form No. PHD-20 - Rev.
July 1964

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

Date November 19, 1964
Analyzed by DS HEB
Checked by HEB

LAB. NO.	COLLECTOR'S NAME	SAMPLING DATE	SOURCE: Temp. & Field Cond. $KX10^6$	LOCATION	IRRIGATION WATER CLASS U.S. REG. SAL. LAB.
174	Getsman	11/3/64 1030	Temp. 75° Cond. = 2100	(A-1-3) 13dbb 6" Casing	Blew well out for 1½ hrs.
175	Getsman	11/3/64 1330	Temp. 75° Cond = 1280	(A-1-3) 13dbb 1¼" Pipe	Pumpe 2½ hrs. yield 5gpm. App. Tot. 750 gal.
176	Carver	11/2/64	Sample from Tank Truck	Construction site in sec. 23, T. 1 N., R. 3 E.	Drill & Flush Water for Test Hole (A-1-3) 13 dbb

Lab. No.	$EC \times 10^6$ 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
174	2000	7.7	1204	57	88	me	0	11.53	3.40	5.08	0.16	0.80	620	2.35	11.50	—	—	—	20.17	20.85
						ppm		265	68.0	61.0	6.3	24.0	373	113	408		0.54			
175	1350	7.8	826	84	99	me	1.21	11.38	1.76	0.28	0.11	0.30	2.95	2.22	8.20	—	—	—	13.53	13.57
						ppm	60.5	262	35.2	3.4	4.3	9.0	177	107	291		0.63			
						me	—	—	—	—	—	—	—	—	—	—	—	—		
						ppm														
176	1950	7.7	1150	59	84	me	0	12.00	5.20	2.72	0.14	0.50	5.25	2.50	11.40	—	—	—	20.06	19.65
						ppm		272	104	32.6	5.5	15.0	316	120	404		0.88			
						me	—	—	—	—	—	—	—	—	—	—	—	—		
						ppm														
						me	—	—	—	—	—	—	—	—	—	—	—	—		
						ppm														
						me	—	—	—	—	—	—	—	—	—	—	—	—		
						ppm														

Form No. PHD-22
July 1963

#7-2

CONDENSED GRAPHIC LOG OF GROUND WATER TEST HOLE

PROJECT CENTRAL ARIZONA PROJECT STATE ARIZONA

HOLE NO. (A-1-3) 13dbb GROUND ELEVATION 1,415'±

BEGUN October 13, 1964 FINISHED October 28, 1964 TOTAL DEPTH 757'

DEPTH OR ELEVATION OF WATER TABLE 77.80' (11-5-64) HOLE LOGGED BY E. W. Carver

TYPE OF SAMPLE	DEPTH	PIEZOMETER DATA	SAMPLES FOR TESTING	LOG	CLASSIFICATION AND PHYSICAL CONDITION
CT&D	0	6" casing perforated 88'-150'			CHANNEL AND FLOOD PLAIN ALLUVIUM:
					0.0'-1.5': Sand--reddish-brownish gray, loose, thin-bedded, well sorted, fine to very fine grained and subangular to subrounded. Sand is granitic, containing mica, magnetite and minor amounts of iron oxide, other dark accessory minerals, and organic matter.
	100				1.5'-104.0': Gravel, sand, and boulders--pale reddish brown, fairly loose lenticular beds of sand and gravel up to 4 ft. thick in cobbles and boulders up to 1 ft. diameter, filled with sand, silt, and clay, angular to rounded. Gravel is a mixture of volcanic and granitic rock types.
CR					18.0'-19.9' Sand and Gravel
CT&D					30.0'-34.0' Fine sand and gravel
	200				34.0'-39.0' Sand and gravel with some clay
CR					45.0'-46.0' Clay, probably sandy
CT&D					70.0'-72.0' Sand and small gravel
					87.0'-94.0' Cemented sand and gravel
CR					97.0'-104.0' Boulders with sand or clay lenses
CT&D					104.0'-158.0': Sand and gravel with some boulders--reddish to brownish gray, loose to slightly cemented layers below 119', interbedded with reddish brown clay, gives moderate to strong reaction to acid in cemented areas only.
	300				CRETACEOUS-TERTIARY INDURATED SEDIMENTS:
CR					158.0'-200.0': Sand--light gray to reddish brown, somewhat firm to loose, lenticular, poorly sorted, fine grained to silt and clay sized particles with lenses of coarse sand and gravel up to 2", little or no reaction to acid except in lenses cemented by caliche. Coarse sand and gravel is subangular to rounded, cemented in lenses by caliche that gives a strong reaction to acid or filled in with sandy to clayey silt.
CT&D					180'-200' Sandy silt and clay, reddish brown grading to fine sand; gives little or no reaction to acid.
CR					200.0'-370.0': Sandstone with interbedded claystone--brownish red to brownish gray, generally hard and tight to occasionally soft and loose; irregular to well defined thin bedding that dips 45°-50°. Sand is quite well sorted, very fine to fine grained, subangular to subrounded, quartzose, contains biotite mica and minor amounts of dark accessory minerals and is cemented in zones by iron oxide and some caliche that gives a moderate reaction to acid. Claystone is soft enough to be scratched by a fingernail; forms slick irregular surfaces, gives no reaction to acid.
	400				
CT&D					
CR					
CT&D					
	500				
CR					
CT&D					
CR					370.0'-450.8': Sand with clayey silt lenses--brownish gray, soft and quite loose, poorly sorted, predominantly fine to medium coarse sand is subangular to subrounded. Sand is quartzose, contains biotite and minor amounts of dark accessory minerals. A tight zone cemented by caliche @ approximately 403' gives a moderate reaction to acid.
	600				
CT&D					
CR					
CT&D					
CR					450.8'-720.0': Sandstone with claystone lenses and seams--brownish red to brownish gray, firm and tight with several zones that are soft and loose, lenticular, thin well defined bedding (up to ½") noted below 500' dipping 45°-50°. Sand is usually well sorted, predominantly fine to very fine grained, subangular to subrounded, quartzose and contains abundant biotite mica in several zones with minor amounts of dark accessory minerals, variably cemented by caliche in zones that give a weak to strong reaction to acid, no reaction to acid elsewhere.
	700				
CT&D					
CR					
		T.D. 757'			720.0'-757.0': Siltstone--pale brownish to reddish gray, clayey-sandy, hard and tight to semi-indurated; can be scratched by a fingernail, thin fracture surfaces coated with iron oxide; no reaction to acid. Sand is lenticular, poorly sorted, fine grained with silt and clay, cemented by caliche that gives a moderate reaction to acid. Sand contains flakes of selenite up to 3/16" diameter.
	800				
	900				

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

Gravel
Sand
Silt
Clay
Sandstone
Siltstone

HOLE NO. (A-1-3) 13dbb