



Docket No: 2

State Water Rights Documentation

03-12-1968: purchase order; 1968

FORM 10-131 (AUG. 1964)		PURCHASE ORDER		
UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE Western Regional Office 450 Golden Gate Avenue, Box 36063 San Francisco, Ca 94102 (ISSUING OFFICE)		REQUISITION NO. DATE OF ORDER March 12, 1968	THIS NUMBER MUST APPEAR ON ALL PACKAGES AND PAPERS RELATING TO THIS ORDER ORDER NUMBER 973-125	
		ACCOUNTING CLASSIFICATION 14X1035 (973-062107) (\$1250.00)		
VENDOR'S NAME AND ADDRESS Raney's (Pumps & well works) P. O. Box 310 Uvalde, Texas		SHIP TO: (Consignee and Address) National Park Service Planning & Service Center LWESC 450 Golden Gate Avenue, Box 36025 San Francisco, Ca 94102 14th Floor - Inside delivery		
CONTRACT NO.	DISCOUNT TERMS	SHIP VIA		
C. N.				
DELIVERY: F.O.B.		TIME FOR DELIVERY	GOVT. O/L NO.	
SHIPPING POINT				
ITEM NO.	ARTICLES OR SERVICES	QUANTITY ORDERED	UNIT PRICE	AMOUNT
1.	Provide equipment and labor for pump test of ANISTAD RECREATION AREA, well as follows: Furnish pump, power supply, pipe column and other materials and labor as needed, including setting up and removal for a continuous 48 hour pump test on the McNamara well No. 664-65, located two miles north-east of the Anistad Dam in the Diablo East development area. Pumping rate required 150 GPM, pump setting-depth to bowels approximately 350 ft.....Total cost for 48 hour test..... Hourly rate for pumping is \$15.00 per hour. This rate is to be used if pumping is required for more than 48 hours. These quotations were received by James Roberts per telephone on March 6 and 11, 1968. <i>Additional Cost for lowering pump in well (materials & labor)</i> WILLIAM E. FIELDS Supervisory Hydraulic Engineer LWESC			\$1,250.00 + 225.00 \$1,475.00 <i>Pd - 4-3-68</i> <i>V - 1127.5</i> <i>Pg - 225.00</i> <i>+ 1,475.00</i>
			TOTAL	\$1,250.00
SIGNATURE				
NAME AND TITLE		TED CHENG, PROCUREMENT AGENT PURCHASING OFFICER		
6. MEMORANDUM COPY				

INVOICE

RANEY'S**WINDMILLS, PUMPS
& WELL SUPPLIES**

Date

March 25, 1968

Invoice No. 10806

Order No.

Terms

Via

SOLD TO United States Department Of The Interior
 San Francisco Planning and Service Center
 Office of Land and Water Rights
 450 Golden Gate Ave., Box 36025
 San Francisco, California 94102

SHIPPED TO UVALDE, TEXAS

NTITY	DESCRIPTION	UNIT PRICE	TOTAL
	Installing test pump in well on park site near Amistead Dam known as McNamara well. No. 664-65 in the National Park Service. Diablo East Development area. Pumping well as agreed and removing pump and equipment from location.		\$1,250.00
	Adding extra pump setting as agreed with Mr. James Roberts		225.00
	Total		\$1,475.00

RECEIVED
 San Francisco Planning and Service Center
 Office of Land and Water Rights
 NATIONAL PARK SERVICE
 MAR 28 1968

ACT. INFO.	INITIALS	DATE
CHIEF		
ASST. CHIEF		
STAFF ASST.		
SUPV. ASST.		
PREP. ASST.		
TITLE		
SIG. CLERK		
SUPV. ASST.		
DOCKET		
FILE		

apc 3/28



IN REPLY REFER TO:

322

5039

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Amistad Recreation Area
P. O. Box 1463
Del Rio, Texas 78840

November 28, 1966

Memorandum

To: Chief, DCSSC

From: Superintendent, Amistad

Subject: Water Supply - Diablo East

The enclosed information on a possible water supply for Diablo East might be of value in planning.

The well drilled by McNamara is fairly centrally located to serve our developments. It is suggested that test pumping be done on these two wells to produce current information. I believe the 150 gpm for the McNamara well was secured by a pumping operation of short duration.

Coleman C. Newman
Coleman C. Newman

Enclosures:

Chemical Analysis of water samples (2)

cc: SW Reg Off w/encl.

P. S. The information on the enclosures was given to us by the International Boundary and Water Commission.

DEC 1 1966

CHIEF	
ADMIN.	
CHIEF OF PARK	
& WATER CONTROL	
ENGINEERS	
WATER CONTROL	
CHIEF OF PARK DESIGN	
CHIEF CONTRACTS	
CHIEF OF MAINTENANCE	
CHIEF OF RECORDS	
CHIEF OF TRAVEL	
CHIEF OF VISITOR	
CHIEF OF WILDLIFE	
CHIEF OF PLANT	
CHIEF OF SOIL	
CHIEF OF WATER	
CHIEF OF WOODS	
CHIEF OF YOUTH	
CHIEF OF ZOO	

1216

*Well #2 - also
Diablo East Area*

CHEMICAL ANALYSES OF WATER SAMPLES
DRILLED BY MEMPHIS FOR GROUT WATER SUPPLY

Well No.	664-65
Well Owner	U. S. Govt.
Depth of Sample	480 ft. (pumping at 150 gpm)
Date Sampled	10/24/64 (rec'd at lab 11/16/64)
Conductivity EC _{10°C} @ 25°C	281
Sodium-absorption-ratio (SAR)	.5
Soluble-sodium-percentage (SSP)	21
Dissolved Solids t.s.t.	.25
Dissolved Solids p.p.m.	184
pH	8.0
Silica SiO ₂ p.p.m.	11
Calcium Ca mg./l.	1.74
Magnesium Mg mg./l.	.36
Sodium Na mg./l.	.56
Potassium K mg./l.	.03
Sum of Cations	2.69
Carbonate mg./l.	Trace
Bicarbonate "	1.87
Sulfate "	.18
Chloride "	.67
Nitrate "	.05
Sum of Anions	2.77

Approximate Total Hardness: 105 ppm
As CaCO₃

(Dec 1964)

Elev. 1172.2
Total Depth 480 ft.
Casing 8" at 8 or 10 ft.
Capacity 150 gpm

Well located almost due north of intersection of
Highway 90 West and access road to dam and approximately
1000 feet north of the highway.

Drilled for grout supply in 1964

Other Supporting Information

OSM FORM (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

38-7/25/72

Handwritten signatures and initials:
M. Com
Bert
2/24

TO : Acting Associate Director, Professional Support DATE: Feb. 2, 1972

FROM : Hydraulic Engineer, Water Resources, Office of the Regional Chief Scientist

SUBJECT: Trip Report to Lyndon B. Johnson, NHS, January 18-21, 1972

1. Purpose of trip: Meet with the Superintendent and Park Staff of Lyndon B. Johnson National Historical Site regarding the location of a proposed water well site at LBJ Birthplace, and evaluate and make a study for an acceptable well design as requested by the Superintendent's memorandum of January 3, 1972. Enroute met with U.S. Geological Survey (Austin District) officials in Johnson City regarding the water resources FY 1972 program; and visited Amistad Recreational Area to evaluate and inspect the existing well and water resources potential at Diablo East.

2. Itinerary: Departed Santa Fe on January 18 for Lyndon B. Johnson National Historical Site at Johnson City, Texas. On duty at Lyndon B. Johnson NHS from January 19 through the morning of January 20, then proceed to Amistad RA at Del Rio, Texas, arriving on the afternoon of January 20. Remained on duty at Amistad RA and returned to Santa Fe on the afternoon of January 21.

3. Companions: None

4. Lyndon B. Johnson NHS:

a. Accomplishments: Arrived at Lyndon B. Johnson NHS on the evening of January 18 and met with Superintendent Walter T. Bruce for a brief discussion on ground water problems at the site (Birthplace). On Wednesday morning, with Superintendent Walter T. Bruce and Maintenance Supervisor Manuel White, made an on-site inspection of the existing water facilities at the LBJ Boyhood Home in Johnson City and the LBJ Birthplace near Stonewall. Layout of utilities, existing water supply systems and use of the facilities were noted. As noted in Supervisor of Maintenance Ronald E. Cotten's Trip Report of November 29 and 30, the domestic supply system at the Birthplace is unacceptable due to a number of deficiencies involving well construction and water supply lines. Irrigation water is presently supplied from the Pedernales River through privately owned irrigation lines (surface installed) to the LBJ Ranch.

With Superintendent Bruce and Maintenance Supervisor White, met with USGS Austin District Water Resources Officials, Messrs. Allen G. Winslow and Edward R. Leggat, for an on-site discussion and review of the proposed Birthplace well site. The ground water geology of the area including information on existing wells in the vicinity, were discussed,



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particularly those wells drilled on the LBJ Ranch. Virdell Brothers Drilling Co. of Llano, Texas, who have drilled water wells on the LBJ Ranch and vicinity, was contacted and an on-site meeting was arranged with Mr. Taylor Virdell. We met with Mr. Virdell at the Birthplace and discussed drilling procedures, well designs and estimated drilling costs (including pump installation costs). Drilling costs are approximately \$3.50 per lin. foot; casing \$2.25 per lin. foot installed. Water requirements at the Birthplace is principally one of providing water for seasonal irrigation demands. Present irrigation use involves operating a sprinkler system with 19 sprinkler heads for a 2-acre area at a peak demand of 39 GPM (6 sprinkler heads at a time @ 6-1/2 GPM per head = 39 GPM). Future domestic needs for a comfort station and drinking facilities are estimated at 2 GPM.

As reported by the Superintendent, no water rights, licenses or other actions have been claimed by the park.

b. Conclusions: From an analysis of data available and information obtained while on a tour of the Birthplace, a well drilled to 300 feet should produce a moderate supply of water (10 to 50 GPM). As noted, 40 to 45 GPM is desired to meet future domestic and irrigation demands. Two drilling sites are proposed which are located northwest of the Birthplace just outside of the perimeter fence; one site is adjacent to the fence line and the other site is approximately 150 feet towards the river just north of the LBJ Ranch Road. Power is available to both sites which are located above the flood stage of the Pedernales River. Well design and recommended construction specifications are forthcoming pending receipt of additional information. It is noted that no facilities are provided or proposed for fire protection. Fire protection could be provided by mobile equipment, installation of a reservoir with hydrants, or using portable equipment. The estimated costs of drilling and casing is \$1,800, pumping facilities \$900 and distribution lines \$500. The assistance provided by Superintendent Bruce and his staff was helpful in evaluating and studying the water situation.

5. Amistad RA

a. Accomplishments: I proceeded to Amistad Recreation Area and met with Superintendent Coleman C. Newman and Maintenance Supervisor Clark Crane for a brief discussion on the existing well at Diablo East. We visited the Diablo East Site for a field discussion of the existing well facilities and the proposed site of a new well (PCP No. U-7-3, Phase IV, dated January 15, 1971). As pointed out by Superintendent Newman, one problem to be solved in conducting a pump test on the existing well is providing water to the site during the period of the pump test. It was generally agreed that the estimated capacity of the existing well has increased since filling the reservoir in the summer of 1968, which is outlined in the Southwest Region's memorandum of January 3, 1972, to the Denver Service Center, subject, "Drilling of Production Well, Diablo East, Amistad Recreation Area". Superintendent Newman commented that a second well is required in case maintenance problems are encountered with the existing well.

Rough Canyon and the area below the dam was visited, and according to Superintendent Newman, the test well drilling for Rough Canyon and Rio Grande (below dam), programmed for FY 1972 (see Water Resource Proposals AMIS-2 and AMIS-3 of September 3, 1970), is no longer required by the Park. At Rough Canyon, water is now supplied for park needs by the recently drilled Concessioner's well (8" diameter well, approximately 400 feet deep). According to the Park Staff, this well provides an adequate supply of potable water for present and future needs. A number of ISWC wells below the dam are available as a potential water supply source for any future development below the dam.

b. Conclusions: Additional data is required for analysing the total potential of the existing well at the Diablo East Site. As the Superintendent noted, to conduct an eight-hour pump test would interrupt the present water supply system. Since the existing water system does not supply water to permanent type structures (i.e., buildings) and visitation is at a minimum during this time of the year, shutting down the system for 24 hours would not cause too great an inconvenience if the pump test could be conducted by March or April of this year. Further action is being taken to schedule a pump test. Based on the water supply situation at the Rough Canyon and Rio Grande (below the dam) areas, it is recommended that Water Resource Proposals AMIS-2 and AMIS-3, dated September 3, 1970, for water resources exploration, be cancelled.

Dr. J. C. Campbell

Cleared for Distribution:

Act. Assoc. Director
Professional Support

Date

Maps and Miscellaneous Information

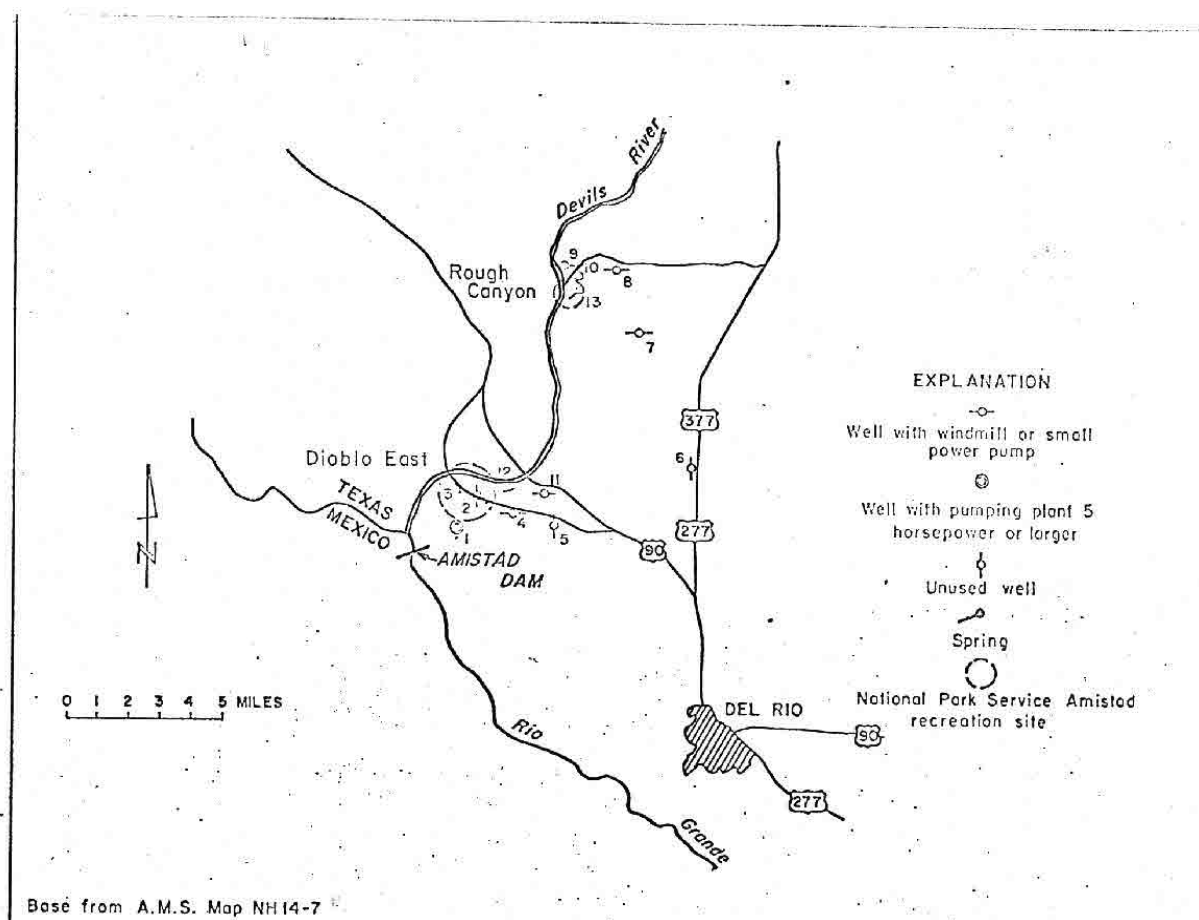


FIGURE 1- Locations of wells and springs near the Amistad Recreation Areas, Amistad Dam, Texas

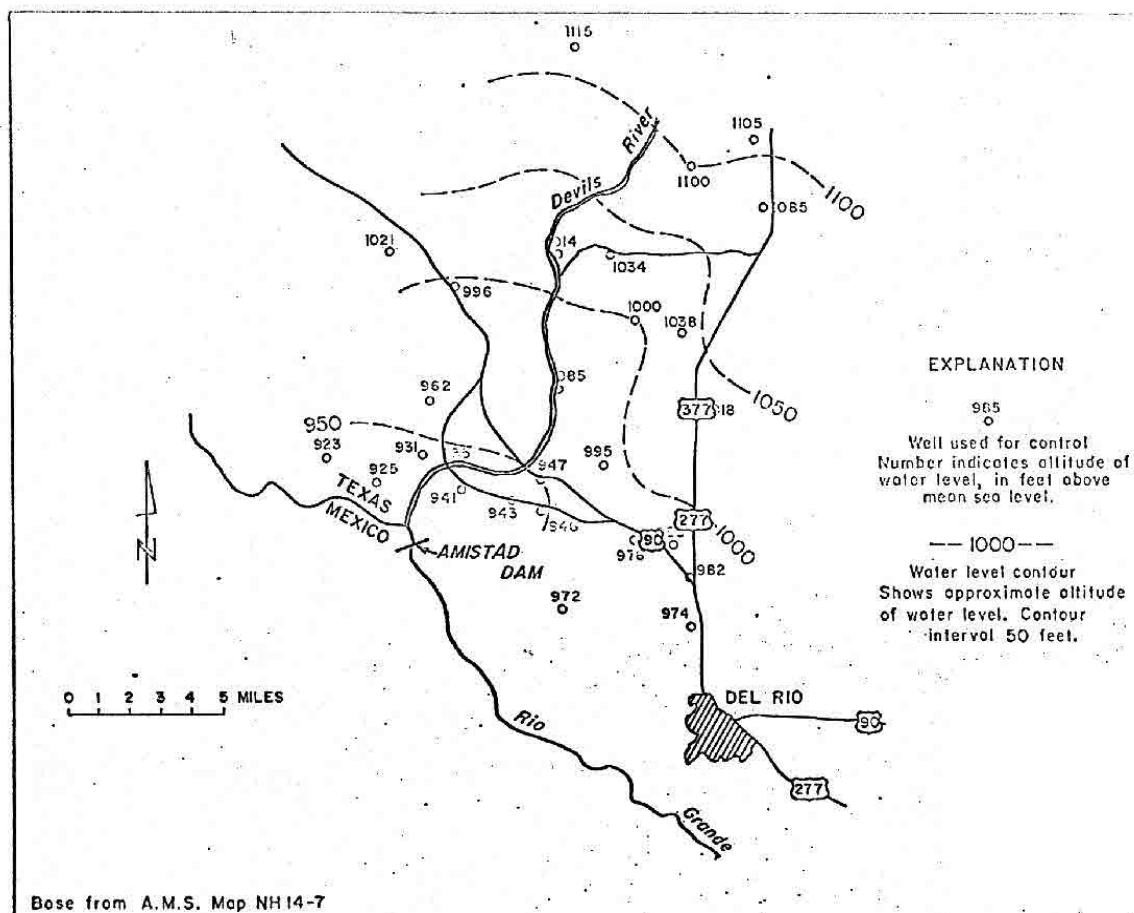


FIGURE 2.- Approximate altitude of water levels in wells tapping the Georgetown and Edwards limestones near Amistad Dam, Texas, June, 1964.

Docket Information

Number of Documents in Docket 9

Documents Dated from 11/28/1966 to 2/2/1972

Docket Compiled: 1/28/2011