



WATER-RIGHT DOCKET

Lake Meredith National Recreation Area

Docket No: 2

MCBRIDE CANYON

State Water Rights Documentation

08-24-1973: letter to nps from texas water development board regarding well schedules with location maps and chemical water an

TEXAS WATER DEVELOPMENT BOARD

MEMBERS

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P.O. BOX 13087
CAPITOL STATION
AUSTIN, TEXAS 78711

August 24, 1973

HARRY P. BURLEIGH
EXECUTIVE DIRECTOR

AREA CODE 512
78-2201
RECEIVED
301 WEST 2ND STREET
NPS, SOUTHWEST REGIONAL OFFICE
AUG 31 1973

	Mr. R. Baskin	Mr. J. Baskin	Initial	Date
D				
DBE=WD				
A				
D				
PS				
PA				
OE				
EA				
2-15-73				
3 Water Resources				
(P. O. Box 728)				
Files				

Mr. F. F. Kowski
Regional Director Southwest Region
National Park Service
P. O. Box 728
Santa Fe, New Mexico 87501

Dear Mr. Kowski:

Thank you for the well schedules (GW-1) with location maps and Chemical Water Analysis Reports (GW-2) and the two each attached laboratory analyses for the Bugbee-North Canyon and the McBride Canyon water wells. The Bugbee-North Canyon well has been assigned Texas State Well Number PJ 06-20-201 and the McBride Canyon well has been assigned Texas State Well Number UU 06-27-401.

We appreciate receiving this material as it will be useful in future groundwater studies.

Sincerely,

C. R. Baskin
Principal Engineer
Data and Technical Review

L 54
GUM O

Southwest Region
P. O. Box 728
Santa Fe, New Mexico 87501

AUG 30 1973

L54-PSN
LAMR/Wtr. Dkt.

File
WR Docket
Give #

Mr. James M. Wall
Ground Water Division
Texas Water Development Board
Post Office Box 12386
Austin, Texas 78711

Dear Mr. Wall:

Enclosed herewith are the Well Schedules (GW-1) with location maps and Chemical Water Analysis Reports (GW-2) with attached laboratory analyses for the Bugbee-North Canyon well and McBride Canyon well at Lake Meredith Recreation Area. Both wells were drilled in February 1973. You are requested to register and assign a state well number to the Bugbee-North Canyon well (TJ-06-20-2) and the McBride Canyon well (UU-06-27-4).

Your cooperation and assistance in this matter is appreciated. For further information please contact D. M. Aughenbaugh in this office at (505) 962-3801, extension 412.

Sincerely yours,

[Signature] **BRAND E. KOSCH**
Regional Director
Southwest Region

Enclosures

cc:
PNW-WASO
Asst. to the Regional Director, Texas
Supt., LAMR, w/o enclosures
PSN-SWR \

DMAughenbaugh:ba 8/16/73

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Quartermaster Formation Field No. _____ State Well No. _____
 Owner's Well No. McBride Canyon County Potter

1. Location: 1/4, 1/4 Sec., Block _____ Survey _____
 See attached map.

2. Owner: U.S. Government Address: P.O. Box 728, Santa Fe, NM
National Park Service, SWR

Tenant: _____ Address: _____
 Driller: Delay & Bechtel Drilling Co. Address: Box 642, Boise City, OK 73933

3. Elevation of well at ground level is 3053 ft. above msl, determined by D.M. Aughenbaugh
February 28, 1973

4. Drilled: February 28, 1973; Dug, Cable Tool, Rotary, Rotary

5. Depth: Rept. 451 ft. Meas. 441.0 ft. 20 to 310 ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed Gravel Packed

7. Pump: Mfg. Reda Pump Type 3 HP Submersible

No. Stages 6, Bowls Diam. _____ in., Setting 379.0 ft.

Column Diam. 2 in., Length Tailpipe 383.0 ft.

8. Motor: Fuel Electric Make & Model Katolight, 3 Phase, 37 KW

9. Yield: Flow 2.0 gpm, Pump _____ gpm, Meas., Rept., Est. Measured

10. Performance Test: Date 3-15-73 Length of Test 17 hrs Made by D.M.A.

Static Level 114.2 ft. Pumping Level 209.8 ft. Drawdown 95.6 ft.

Production 2.0 gpm Specific Capacity 0.021 gpm/ft.

11. Water Level: 113.0 ft. 3-8-1973 above Top of 6" Dia. Casing which is 2.0 ft. above surface.

115.42 ft. 3-13-1973 above Top of 6" Dia. Casing which is 2.0 ft. above surface.

116.16 ft. 3-14-1973 above Top of 6" Dia. Casing which is 2.0 ft. above surface.

ft. rept. 19 below which is _____ ft. above surface.

12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used, Not Used

13. Quality: (Remarks on taste, odor, color, etc.) Flat Taste, odorless, colored

Temp. 66 °F, Date sampled for analysis 3-13-73 Laboratory CEP

Temp. 66 °F, Date sampled for analysis 3-15-73 Laboratory CEP

Temp. _____ °F, Date sampled for analysis _____ Laboratory _____

14. Other data available as circled: (Driller's Log) Radioactivity Log (Electric Log)

(Formation Samples) (Pumping Test) (Resistance Log) (Caliper Log) (Fluid

Cond. Log) D. M. Aughenbaugh Date March 16, 1973

Source of Data Field recorded and calculated

16. Remarks:

CASING & BLANK PIPE			
Cemented From <u>0</u> ft. to <u>20</u> ft.			
Diam. (in.)	Type	Setting, ft.	
		from	to
6	Extra Hvy. Steel Welded	-2.0	+310.3

WELL SCREEN			
Screen Openings <u>1/4 x 12-4 rows</u>			
Diam. (in.)	Type	Setting, ft.	
		from	to
6	Slotted	190.3	210.3
6	Slotted	300.3	308.3

CHEMICAL WATER ANALYSIS REPORT

Typewrite (Black ribbon) or Print Plainly
(soft pencil or black ink)
Do not use ball point pen

Texas State Department of Health Laboratories
1100 West 49th Street
Austin 5, Texas

Send report to:

Ground Water Division
Texas Water Development Board
P. O. Box 12386
Austin, Texas 78711

County Potter

State Well No. - -

Well No.

Date Collected 3/15/73

By D. M. Aughenbaugh

Location McBride Canyon, Lake Meredith Recreation Area; Sanford, Texas

Source (type of well) 6" Dia.-Rotary Owner National Park Service

Date Drilled February 28, 1973 Depth 441.0 ft. WBF Quartermaster Formation

Producing intervals Water level 113.0 ft.

Sampled after pumping 17 hrs. Yield 2.0 GPM ^{meas.}_{est.} Temperature 66 °F

Point of collection Discharge Orifice Appearance Colored

clear - turbid - colored

Use Domestic Remarks For future use as a public and domestic water supply. See
attached copies of chemical lab reports.

FOR LABORATORY USE ONLY

CHEMICAL ANALYSIS

Laboratory No. Date Received Date Reported

PPM

EPM

PPM

EPM

Silica Carbonate

Calcium Bicarbonate

Magnesium Sulfate

Sodium Chloride

 Total Fluoride

☐ Potassium Nitrate

☐ Manganese %Na pH Total

☐ Boron SAR 1/Dissolved Solids (sum)

☐ Total Iron RSC Phenolphthalein Alkalinity as C aCO₃

☐ (other) Total Alkalinity as C aCO₃

Specific Conductance (micromhos/cm³) Total Hardness as C aCO₃

Diluted Conductance (micromhos/cm³) x

☐ " items will be analyzed if checked. Analyst

Total Iron requires separate sample. Checked by

1/ The bicarbonate reported in this analysis is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure is used in the computation of this sum.

Supporting Hydro Data

CUSTOMER National Park Service
 ATTENTION D. Aughenbaugh
 ADDRESS P. O. Box 728
 CITY Santa Fe, New Mexico 87501
 INVOICE NO. 303215

APR 2 1973

*Correct***REPORT OF
ANALYSIS**

SAMPLES RECEIVED 3/20/73		CUSTOMER ORDER NUMBER PX-7000-3-0049	
TYPE OF ANALYSIS Water for Total Dissolved Solids and Sulfates - 1 sample			
<u>Sample Identification</u>	<u>Date Collected</u>	<u>Analysis</u>	<u>mg/l</u>
Lake Meredith RA	3-14-73	Total Dissolved Solids	3,935
Conductance 3800	5:00pm	Sulfates	1,907
Temp. 20°C	8½ hr.		
Discharge GPM			
Water level 211.0			
Top of Casing			
<i>M'Bride Canyon</i>			
 APPROVED BY James J. Mueller, President 3/30/73			
PAGE 1 OF 1 PAGE			



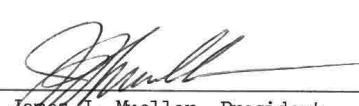
Controls for Environmental Pollution, Inc.

1925 Rosina • P. O. Box 5351 • Santa Fe, New Mexico 87501 • Telephone 505/982-9841

CUSTOMER National Park Service
 ATTENTION D. Aughenbaugh
 ADDRESS P. O. Box 728
 CITY Santa Fe, New Mexico 87501
 INVOICE NO. 303215

APR 20 1973

REPORT OF ANALYSIS

SAMPLES RECEIVED 3/20/73		CUSTOMER ORDER NUMBER PX-7000-3-0049	
TYPE OF ANALYSIS Water Quality Analysis - 1 sample			
<u>Sample Identification</u>	<u>Analysis</u>	<u>Report Units</u>	
Lake Meredith RA	Calcium	593	mg/l
Conductance 3700	Chloride	318	mg/l
Temp. 19°C	Color	15	Color Units
Discharge 2 GPM	Fluoride	0.52	mg/l
Water level 211.0	Hardness (CaCO ₃)	1,980	mg/l
Date collected 3/15/73	Iron	0.13	mg/l
1:30am	Magnesium	78.8	mg/l
McBride Canyon	Manganese	0.003	mg/l
	Nitrate Nitrogen	0.81	mg/l
	pH	7.9	pH Units
	Phosphate (as Phosphorus)	0.25	mg/l
	Potassium	6.66	mg/l
	Silica (SiO ₂)	34.6	mg/l
	Sodium	332	mg/l
	Total Solids	3,628	mg/l
	Sulfate	1,981	mg/l
	Bicarbonate (CaCO ₃)	36.5	mg/l
	Carbonate (CaCO ₃)	0.0	mg/l
	Total Dissolved Solids	3,620	mg/l
APPROVED BY  James J. Mueller, President 3/30/73 PAGE 1 OF 1 PAGE			



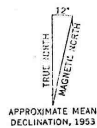
Controls for Environmental Pollution, Inc.

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Maps and Miscellaneous Information

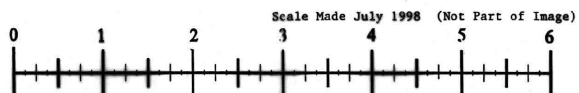


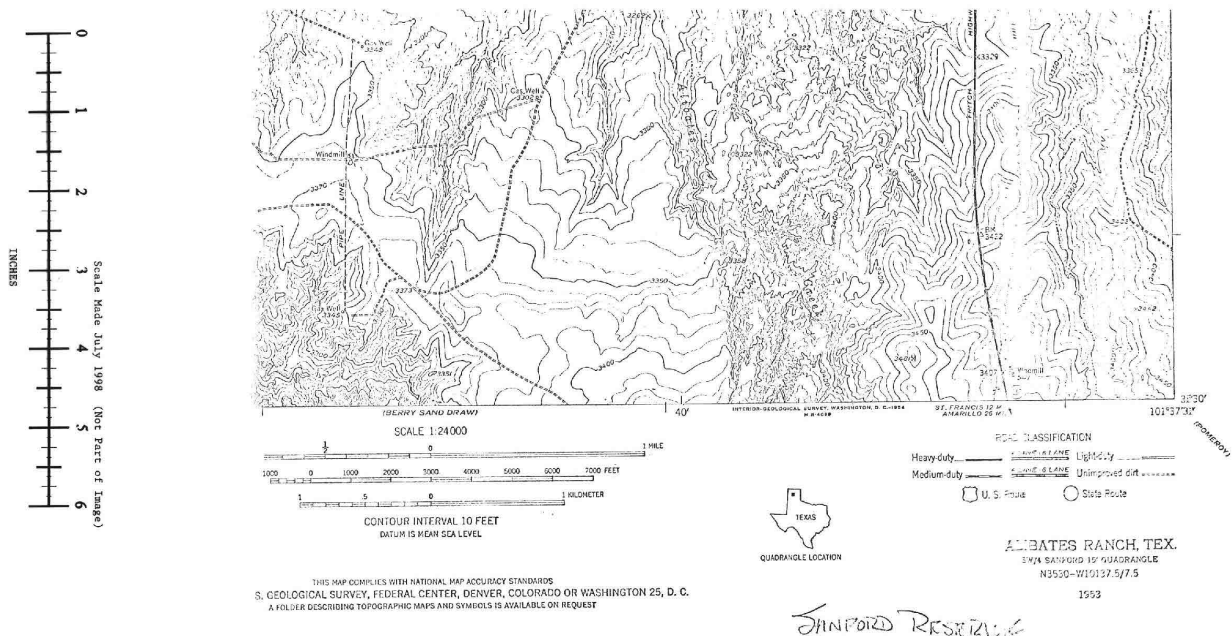
Mapped, edited, and published by the Geological Survey
 Control by USGS and USC&GS
 Topography from aerial photographs by multiplex methods
 Aerial photographs taken 1951. Field check 1953
 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Texas coordinate system,
 north zone



APPROXIMATE MEAN
 DECLINATION, 1953

FOR SALE BY U. S. GEOL
 A FOL





Docket Information

Number of Documents in Docket 8

Documents Dated from 4/2/1973 to 8/30/1973

Docket Compiled: 4/21/2011