



WATER-RIGHT DOCKET

Florissant Fossil Beds National Monument

Docket No: 3

WELL #3

Preliminary Docket Information

00-00-0000: water right record

WATER RIGHT RECORD

Park: FLFO

Docket Number:

Federal #3

IDENTIFICATION NO: FLFO W 1 4 1 3 7 1 A F O 3

DITCH/WATER SYSTEM: Well #3

SOURCE OF SUPPLY: Well

LOCATION: SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 14, T13S, R71W

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: 13731

Certificate Record Number:

Date of Priority: May 1, 1955

Quantity of Water: .111 c.f.s.

Purpose: Domestic, irrigation

Irrigated Land Description: 60 acres meadow. SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 14,
T13S, R71W

SUMMARY OF STATUS: This is a Federal water right consisting of a 72 ft. well. Acquired from Agnes R. Singer.



U.S. Department of Justice

Land and Natural Resources Division

WMC:LAJohnson
90-1-2-892

Denver Field Office
Federal Bldg., 1961 Stout Street
Drawer 3607
Denver, Colorado 80294

Commercial Number
(303) 844-3627
FTS/564-3627

November 23, 1990

Mr. William R. Hansen
Hydrologist
Water Resources Division
National Park Service
301 South Howes Street
Fort Collins, Colorado 80521

Re: Water Division No. 1 - Case No. W-8797-77

Dear Bill:

Enclosed please find a copy of FINDINGS AND RULING OF THE REFEREE . . . in the above-captioned case. Please review this ruling carefully. We are allowed until December 10, 1990, to file a Protest with the court if this Ruling does not meet the needs of your agency people.

May we hear from you by December 3, 1990, as to whether or not this Ruling is acceptable. We look forward to hearing from you.

Sincerely,

Deirdre Hills

Deirdre Hills
Legal Technician
General Litigation Section

cc: John Kunz, Esq.
Regional Solicitor's Office
Department of the Interior
Post Office Box 25007
Denver Federal Center
Denver, Colorado 80225

DISTRICT COURT, WATER DIVISION NO. 1, COLORADO

CASE NO. W-8797-77

FINDINGS AND RULING OF THE REFEREE AND DECREE OF THE WATER COURT

IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF
UNITED STATES OF AMERICA, FLORISSANT FOSSIL BEDS NATIONAL
MONUMENT, IN TELLER COUNTY

THIS CLAIM was filed with the Water Clerk, Water Division 1, on December 29, 1977, and the Referee being fully advised in the premises, does hereby find:

All notices required by law of the filing of this application were fulfilled, and the Referee has jurisdiction of this application.

Numerous Statements of Opposition and Entries of Appearance were filed in all the USA cases. Upon agreement of all counsel, this case is to be ruled on as if no opposition had been filed.

All matters contained in the application were reviewed, and testimony was taken where such testimony was necessary and such corrections made as were indicated by the evidence presented.

FINDINGS OF FACT

1. Singer Well was registered on April 29, 1960 for domestic and irrigation of 60 acres of meadow using 40 gpm. The well was assigned number 13731-R.
2. Evidence indicates the well has been used to serve water to three single family dwellings, irrigation of less than one acre and stockwater using 25 gpm.

IT IS HEREBY THE RULING OF THE WATER REFEREE:

USA
W-8797-77
Page 2

1. The name and address of the claimant:

United States of America
Department of Justice
Land and Natural Resources Division
1961 Stout Street
P.O. Drawer 3607
Denver, CO 80294

2. The name of the structure:

USA Florissant Fossil Beds National Monument
Singer Well No. 3.

3. The legal description of the structure:

NE1/4SE1/4, Section 14, Township 13 South,
Range 71 West, 6th P.M., Teller County, at a point approximately
2,200 feet from the South line and 200 feet from the East line,
Section 14.

4. The source of water:

Groundwater

5. The date of appropriation:

May 1, 1955

6. Amounts of water:

0.056 cfs (25 gpm)

7. Use of water:

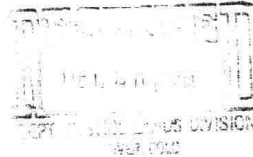
Domestic in three single family dwellings
including irrigation on less than one acre and stockwater.

8. This water right, so long as uses are limited
to those decreed herein, is exempt from administration by the
State Engineer pursuant to CRS, 37-92-602.

Dated: NOV 20 1990


RAYMOND S. LIESMAN
Water Referee
Water Division No. 1

USA
W-8797-77
Page 3



THE COURT FINDS: NO PROTEST WAS FILED IN THIS MATTER.

THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY
MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: DEC 19 1990

A handwritten signature in cursive script, reading "Robert A. Behrman". The signature is written in dark ink and is positioned above the printed name of the signatory.

ROBERT A. BEHRMAN
Water Judge
Water Division No. 1
State of Colorado



U.S. Department of Justice

Land and Natural Resources Division

WMC:LAJohnson
90-1-2-892

Denver Field Office
Federal Bldg., 1961 Stout Street
Drawer 3607
Denver, Colorado 80294

Commercial Number
(303) 844-3627
FTS/564-3627

November 13, 1990

Mr. Raymond S. Liesman
Referee, Water Division No. 1
Post Office Box C
Greeley, Colorado 80632

Re: Water Division No. 1 - Case No. W-8797-77, Well No. 3,
Florissant Fossil Beds National Monument

Dear Ray:

As we discussed by phone on November 9, upon further investigation, the National Park Service has determined that the claim for the irrigation of 60 acres from the Singer well at the Florissant Fossil Beds National Monument is incorrect. The Park Service is claiming a water right for the irrigation of one acre only and domestic use for three single family dwellings as an exempt well pursuant to CRS 37-92-602.

If you need any further information, please do not hesitate to call. Thank you very much for your assistance.

Sincerely,

ENVIRONMENT AND NATURAL RESOURCES
DIVISION

Lynn A. Johnson
Attorney, General Litigation Section

cc: Mr. William R. Hansen
Hydrologist
Water Resources Division
National Park Service
301 South Howes Street, Room 335
Fort Collins, Colorado 80521



United States Department of Justice
LAND AND NATURAL RESOURCES DIVISION
DENVER REGIONAL OFFICE
577 FEDERAL COURTHOUSE BUILDING
DENVER, COLORADO 80202

MAILING ADDRESS
P. O. BOX 1656
DENVER, COLORADO 80201
303-637-4961

August 24, 1973

Victor L. Lewis
Park Manager
Florissant Fossil Beds
P. O. Box 164
Florissant, Colorado 80816

Re: Civil Action C-2439, Tract 01-102
(Singer)

Dear Mr. Lewis:

For your information, enclosed please find
a certified copy of the Judgment in the above-
captioned matter.

Very truly yours,

B. RICHARD TAYLOR
Trial Attorney

BY 
PAT BEGAKIS
Legal Clerk

pdb

Enclosure

RECEIVED	
FLORISSANT FOSSIL BEDS N.M.	
AUG 27 1973	
	Date
1 Park Manager	<i>Lewis</i> 8/27
2 Administrator	<i>Marshall</i> 8/27
3 Interpreter	<i>Tanaka</i> 8/27
Parade Officer	
Maintenance	
FILE	

Return To Vic

Filed For Record August 31, 1973 at 10:30 AM.

2245

DRAWER 11 CARD.

31617

FILED
UNITED STATES DISTRICT COURT
DENVER, COLORADO

AUG 24 1973

JAMES R. MANSPECKER
CLERKBY _____
DEP. CLERKIN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF COLORADO

UNITED STATES OF AMERICA,	)	
	)	CIVIL ACTION NO. C-2439
Plaintiff,	)	
	)	TRACT NO . 01-102
v.	)	
	)	
1,787.83 Acres of Land, More	)	
or Less, Situate in Teller	)	
County, Colorado; W. NATE	)	<u>JUDGMENT</u>
SNARE, et al., and UNKNOWN	)	
OWNERS,	)	
	)	
Defendants.	)	

CAME ON this day to be heard defendant's Motion for Interest on Judgment and to be considered the entry of a recordable judgment pursuant to this Court's Judgment on Stipulation dated April 20, 1973.

And it appearing to the Court that defendant is entitled to some interest, it is the FINDING of this Court that a reasonable amount of interest is for a period of thirty (30) days at the legal rate, or a total sum of \$2,342.40 which the Government shall deposit in the Registry of the Court.

It further appearing to the Court that pursuant to Judgment on Stipulation hereinabove mentioned, the United States of America did on the 10th day of August, 1973, deposit the sum of \$475,000.00 as provided and said funds have been distributed to defendant Agnes R. Singer.

IT IS THEREFORE ORDERED, ADJUDGED AND DECREED that the title to the estate as set forth in the Lis Pendens notice on the 28th day of July, 1970, Reception No. 206428, Drawer 3, Card 435, in Teller County, Colorado, is vested in the United States of America on Tract No. 01-102 as set forth in Exhibit A attached hereto and made a part hereof.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that by Tax Answer, the taxes due and owing the Treasurer of Teller County are in the sum of \$436.07. When said sum of \$2,342.40 is deposited with

221563

DRAWER 11 CARD.

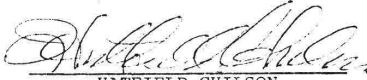
210B

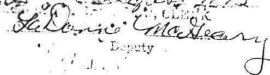
the Clerk, the Clerk shall issue two checks as follows: Treasurer of Teller County, \$435.07; and Agnes R. Singer, \$1,906.33.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that the United States of America shall transmit a certified copy of this Judgment to the appropriate officials of Teller County for recordation among the deed records to show the divesting of the title from Agnes R. Singer and the vesting of same unto the United States of America.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that all persons in possession of said properties herein described, shall within thirty (30) days hereof, deliver possession of said properties unto the United States of America.

DONE AT DENVER, COLORADO, this 24th day of August, 1973.


HATFIELD CHILSON
UNITED STATES DISTRICT JUDGE

19
I, the undersigned, Clerk of the
United States District Court for the
District of Colorado, do hereby
certify that the foregoing is a true
and correct copy of the original
and is filed for recordation
of said
County of Teller, Colorado, this
24th day of August, 1973.
By 
Deputy

224563

DRAWN BY LANE 3/16

FLORISSANT FOSSIL BEDS NATIONAL MONUMENT
TELLER COUNTY, COLORADO

TRACT 01-102

County of Teller, Colorado,

TOWNSHIP 13 SOUTH, RANGE 71 WEST OF THE SIXTH PRINCIPAL MERIDIAN

Section 11: Southeast quarter (SE 1/4), south half of the north-east quarter (S 1/2NE 1/4), and that portion of the south half northwest quarter (S 1/2NW 1/4) lying southeasterly of southeast right-of-way line of the County Road leading from the Blue Mountain Ranch to the Town of Florissant, which south half northwest quarter (S 1/2NW 1/4) is SUBJECT, however, to a right of access, if any, appurtenant to that land now or formerly owned by Charles Ferguson, Jr., and Gloria L. Ferguson, his wife, located in the northwest corner of the northwest quarter southwest quarter (NW 1/4 SW 1/4), Section 11, Township 13 South, Range 71 West, 6th P.M., and RESERVING to Agnes Singer, her heirs and assigns, an easement for ingress and egress at a location to be determined by the National Park Service to land owned by her in the East half southwest quarter (E 1/2 SW 1/4) Section 11, and the southeast quarter (SE 1/4), Section 10;

Section 12: Southwest quarter of the northwest quarter (SW 1/4 NW 1/4), northwest quarter of the southwest quarter (NW 1/4 SW 1/4), south half of the southwest quarter (S 1/2 SW 1/4), and those portions of the southeast quarter of the northwest quarter (SE 1/4 NW 1/4), and of the northeast quarter of the southwest quarter (NE 1/4 SW 1/4) lying westerly of the westerly right-of-way of State Highway No. 143, being also known as

EXHIBIT A

24563

3112

County Road No. 1;

Section 13: North half of the northwest quarter (N 1/2 NW 1/4),
and south half of the northwest quarter (S 1/2
NW 1/4), and the northwest quarter of the southwest
quarter (NW 1/4 SW 1/4);

Section 14: East half of the northeast quarter (E 1/2 NE 1/4),
northwest quarter of the northeast quarter (NW 1/4
NE 1/4), and northeast quarter of the southeast
quarter (NE 1/4 SE 1/4).

The area above described contains an aggregate of
864 acres, more or less;

FLORISSANT FOSSIL BEDS NATIONAL MONUMENT
TELLER COUNTY, COLORADO

TRACT 01-102

County of Teller, Colorado,

TOWNSHIP 13 SOUTH, RANGE 71 WEST OF THE SIXTH PRINCIPAL MERIDIAN

Section 11: Southeast quarter (SE 1/4), south half of the north-east quarter (S 1/2NE 1/4), and that portion of the south half northwest quarter (S 1/2NW 1/4) lying southeasterly of southeast right-of-way line of the County Road leading from the Blue Mountain Ranch to the Town of Florissant, which south half northwest quarter (S 1/2NW 1/4) is SUBJECT, however, to a right of access, if any, appurtenant to that land now or formerly owned by Charles Ferguson, Jr., and Gloria L. Ferguson, his wife, located in the northwest corner of the northwest quarter southwest quarter (NW 1/4 SW 1/4), Section 11, Township 13 South, Range 71 West, 6th P.M., and RESERVING to Agnes Singer, her heirs and assigns, an easement for ingress and egress at a location to be determined by the National Park Service to land owned by her in the East half southwest quarter (E 1/2 SW 1/4) Section 11, and the southeast quarter (SE 1/4), Section 10;

Section 12: Southwest quarter of the northwest quarter (SW 1/4 NW 1/4), northwest quarter of the southwest quarter (NW 1/4 SW 1/4), south half of the southwest quarter (S 1/2 SW 1/4), and those portions of the southeast quarter of the northwest quarter (SE 1/4 NW 1/4), and of the southeast quarter of the southwest quarter (SE 1/4 SW 1/4) lying southeasterly of the southeast right-of-way line of the County Road leading from the Blue Mountain Ranch to the Town of Florissant, which south half southwest quarter (S 1/2 SW 1/4) is SUBJECT, however, to a right of access, if any, appurtenant to that land now or formerly owned by Charles Ferguson, Jr., and Gloria L. Ferguson, his wife, located in the northwest corner of the northwest quarter southwest quarter (NW 1/4 SW 1/4), Section 11, Township 13 South, Range 71 West, 6th P.M., and RESERVING to Agnes Singer, her heirs and assigns, an easement for ingress and egress at a location to be determined by the National Park Service to land owned by her in the East half southwest quarter (E 1/2 SW 1/4) Section 11, and the southeast quarter (SE 1/4), Section 10;

County Road No. 1;

Section 13: North half of the northwest quarter (N 1/2 NW 1/4),
and south half of the northwest quarter (S 1/2
NW 1/4), and the northwest quarter of the southwest
quarter (NW 1/4 SW 1/4);

Section 14: East half of the northeast quarter (E 1/2 NE 1/4),
northwest quarter of the northeast quarter (NW 1/4
NE 1/4), and northeast quarter of the southeast
quarter (NE 1/4 SE 1/4).

The area above described contains an aggregate of
864 acres, more or less;

Name and address of purported owner:

Agnes R. Singer, a.k.a. A. R. Singer
Bradley Road
Fountain, Colorado

Names and addresses of other parties who may claim an interest:

Rhea - Greiner & Co., a limited partnership
c/o Perry P. Greiner
121 E. Pikes Peak Avenue
Colorado Springs, Colorado

Teller Park Soil Conservation District
Divide, Colorado

Upper South Platte Water Conservancy District
c/o Walter J. Coil
Fairplay, Colorado

Perry P. Greiner, individually, and as a general partner of
Rhea, Greiner & Co., a limited partnership
Perry P. Greiner, as Trustee
121 E. Pikes Peak Avenue
Colorado Springs, Colorado

The First National Bank of Omaha, Nebraska, Trustee
Omaha, Nebraska

GRAZING RATE ON SINGER PLACE

$$\frac{AUM}{PASTURE} = \frac{ACRES}{PASTURE} \div \frac{ACRES}{AUM}$$

$$\frac{ALL FOR SEASON}{PASTURE} = \frac{AUM}{PASTURE} \div \frac{MONTHS}{SEASON}$$

LOCATION	SITE	CONDITION	ACRES PASTURE	ACRES SUM	AUM PASTURE		
E. PASTURE	LOAMY PARK	FAIR	67	4	16.3	NOT ON GRAZING (162.0 IN PASTURE) 17 HEAD ON FOR 1 MO. OR 40 HEAD ON FOR 3 DAYS	
N. OF HOUSE	MT. MEADOW	POOR	18	5	3.7		
CONTINUING NORTH	MT. MEAD.	FAIR	13	3	4.3		
"	"	"	POOR	7	5	1.5	MAIN 1 MT. MEADOW SITE 11.0 TOTAL = 61.0 AUMS
"	"	"	FAIR	9	3	3.0	
N. SIDE	"	EXCELLENT	3	.75	4.0		
To E. SIDE	"	"	22	.75	29.3		
" " BY ROAD	"	GOOD	7	1.5	4.6		
N. OF POND (W. SIDE)	"	FAIR	13	3	4.3		
N. OF POND INTO CANYON	"	POOR	32	5	6.4		
V.W. CORNER	"	GOOD	5	1.5	3.3		
S.W. CORNER	"	EXCELLENT	15	.75	20.0		
S.W. CORNER	LOAMY PARK	FAIR	12	4	3.0		
GOING NORTH	"	POOR	12	6	2.0		
GOING NORTH	"	FAIR	8	4	2.0		
N. OF HOUSE N. OF MT. MEADOW	"	"	43	4	10.8		
CONTINUING NORTH	"	GOOD	28	2	14.2		
5' WEST SIDE	"	POOR	3	6	.5		
CONTINUING NORTH	"	FAIR	17	4	4.4		
N. OF N.I. PAST	"	FAIR	12	4	3.0		

N.E. OF UPPER N.E. PASTURE	LOANLY PARK MOBILE (LOANLY)	2	2	4.5	} 15,000 LBS 1/2 CWT 100 LBS
NON-IRRIGATED PASTURE	PASTURE 250 AC	13	7	2.5	
"	" 600 AC	9	5	1.8	} 15,000 LBS 1/2 CWT 100 LBS
S. OF HOUSE E. OF MEADOW	LOANLY PARK	40	4	10.1	
N. OF OLD FENCE & ALONG ROAD	"	34	4	2.1	
N.E. CORNER	"	52	6	3.7	
GONG SW	"	48	4	11.9	
N. END	"	28	2	14.7	
N. END	"	5	4	1.1	
N.W. CORNER	"	23	4	7.3	

TOTAL ACRES 675 2249 TOTAL AUM'S
AVAILABLE

$$\frac{675}{225} = 3 \text{ AUM'S PER AVERAGE}$$

MAY 1 - Oct 30 = 6 Mo

$$\frac{225 \text{ AUM}}{\text{PASTURE}} \div \frac{6 \text{ Mo}}{\text{SEASON}} = 37.5 \text{ AUM'S PER ACRE}$$

JUNE 1 - Oct. 30 = 5 Mo. = 45 AUM / ACRE

JUNE 15 - Oct. 30 = 4.5 Mo. = 50 AUM / ACRE

SCS-229 (10-62)

CONSERVATION PLAN MAP

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

cooperating with _____

Soil Conservation District _____

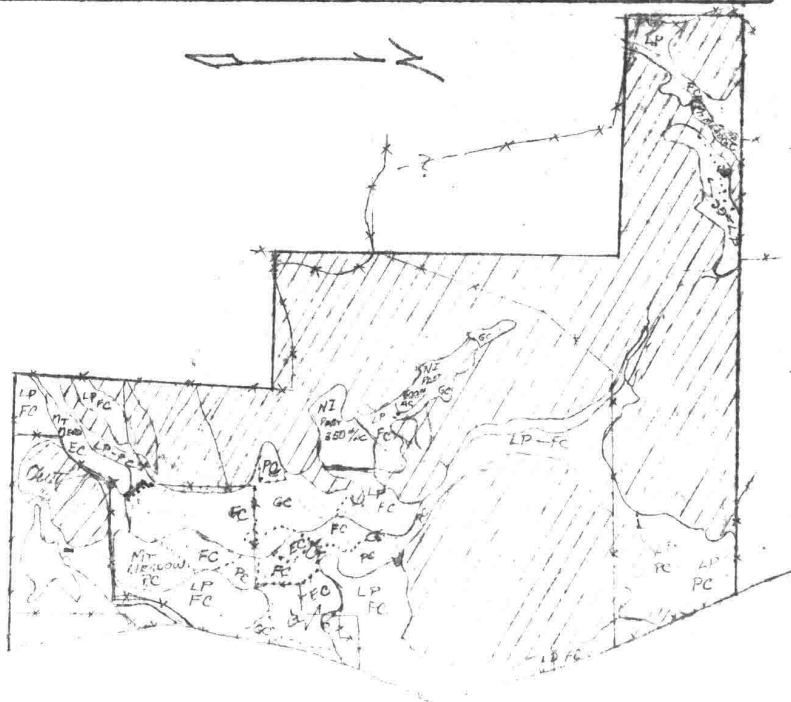
Owner _____ Plan No. _____ Date _____

Operator _____ Scale _____ Acres _____

_____ County _____ State _____ Photo No. _____

Approximate

CFO 1963 O-609129



Four Copies To Be Filed
Two copies of State Engineer well permit or well registration ma
be attached.

IN THE DISTRICT COURT IN AND FOR
WATER DIVISION NO. 1
STATE OF COLORADO
CASE NO. W- 8439-76

IN THE MATTER OF THE
APPLICATION FOR
WATER RIGHTS OF THE UNITED STATES
OF AMERICA IN WATER DIVISION NO. 1

IN THE SOUTH PLATTE
RIVER OR ITS TRIBUTARIES

IN TELLER COUNTY

APPLICATION FOR
UNDERGROUND WATER RIGHT
(Well No. 3)

1. Name of Applicant: United States of America, Dept. of the Interior,
National Park Service, Florissant Fossil Beds National Monument
Mailing Address: Hank Meshorer, Trial Attorney, Dept. of Justice,
Land & Natural Resources Div., P.O. Box 1656, Denver, CO 80201
2. Legal description of well location:
SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 14, T13S, R71W, 6th P.M.
3. Depth of well:
72 feet
4. Date of initiation of appropriation:
May 1, 1955
5. Amount of water claimed in cubic feet per second of time:
.111 c.f.s.
6. Use of water: Historic use or proposed use (indicate which)
Domestic and irrigation
7. Number of well as registered in State Engineer's office or,
if a new well, the number on the permit:
13731
8. Land irrigated (description and acreage):
60 acres meadow. SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 14, T13S, R71W, 6th P.M.

Attorney for Applicant

Address:

Telephone:

WELL INFORMATION DATA

CALL NO. W- 8439-76

Name of applicant: United States of America, Dept. of the Interior, National Park Service

Mailing Address: Hank Meshorer, Trial Attorney, Dept. of Justice, Land & Natural Resources
Div., P.O. Box 1656, Denver, CO 80201Well Permit or Registration Number 13731.

Location of Well :

Section 14, Township 13 South, Range 71 West.Give bearing and distance from Section corner or distance
N - S and E - W from section lines. SE $\frac{1}{4}$ NE $\frac{1}{4}$ of said Sec. 14

DATA: Date of current test: _____.

Depth of well 72 feet.

Depth to Static Water Level _____ feet.

Horsepower of electric motor 1/2.Diameter - discharge pipe 1 1/2 inches.

Pressure at sprinkler head _____ per sq. inch.

DO NOT USE
TEST DATA
FROM WELL
REGISTRATION
FORM.

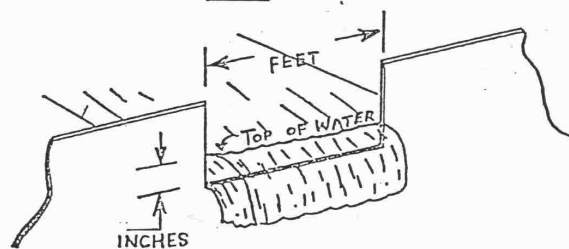
CAPACITY OF WELL:

1. Actual measurement 50 gpm (do not use pump-test data)

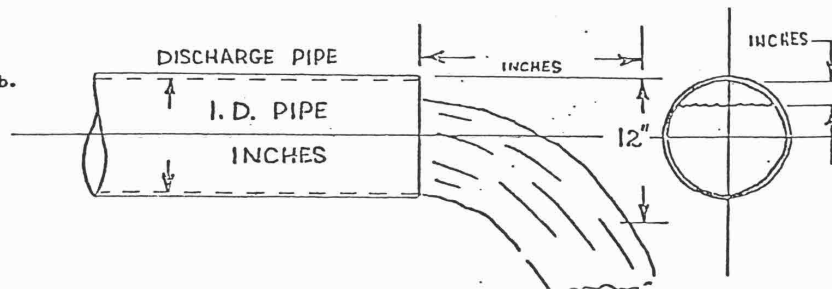
2. Or one of the following measurements:

2a.

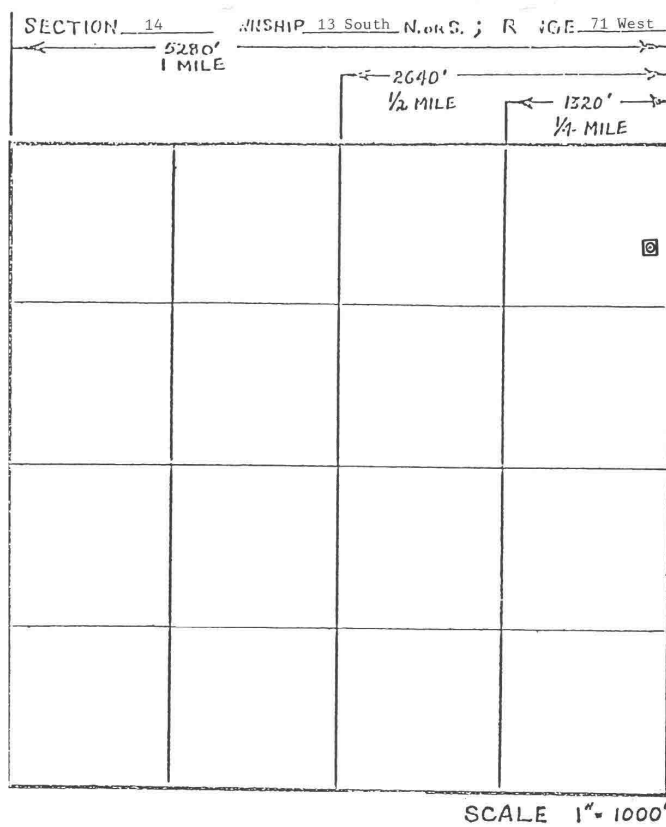
WEIR



2b.



MAP SHOWING WELL LOCATION



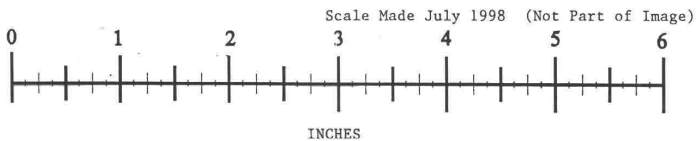
State of Colorado)
County of) ss.

_____, being first duly sworn upon
oath, deposes and says that he has read the foregoing information, knows
the contents thereof and that the same is true.

Subscribed and sworn to before me this _____ day of _____,
19____.

My commission expires: _____

Notary Public



Recpt. Mailed 6-28-60, M. Keith Singer, Florissant, Colo.

Form F (Rev.)

7-57/5M

SEP 1960

OCT 4 - 1960

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER, GROUND WATER SECTION

RECEIVED

APR 29 1960

GROUND WATER

CITY OF

STATE ENGINEER

REGISTRATION NO. 1 OF WELL #13Registrant Agnes R. Singer Date April 26 1960P.O. Address Florissant, Colo.

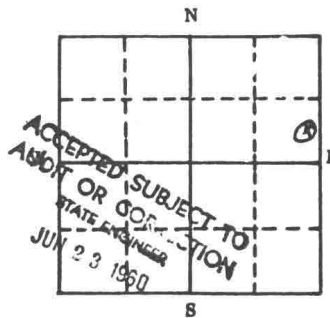
WELL LOCATION

County Teller 60Depth 72 ft. Diameter 7 in.SE 1/4 NE 1/4 Section 14Casing: 36 1/2 ft. Plain; 16 ft. Perfor.Twp. 13S, Rge. 71W, W6 PM

Static Water Level _____ ft. from top

Yield 50 (gpm)(cfs) from 35 ft.Used for Domestic and irrigation on/atSE 1/4 NE 1/4 Sec 14 - Twp 13 N 21
(legal description of land or site)Water conveyed by 1/2 hose, size _____

PUMP DATA

Type Electric Jet Size 1/2 hose 1 1/2 inchDriven by 1/2 at _____ RPMWell was first used Aug 1, 1955for Domestic using 40 cfsWell enlarged _____, 19 to
deepened _____ (gpm)(cfs)(ft)LOG SHOULD BE GIVEN ON REVERSE
SIDE IF AVAILABLE

WELL TO BE LOCATED AS ACCUR-
ATELY AS POSSIBLE WITHIN A
SMALL SQUARE WHICH REPRESENTS
40 ACRES; OR IF IN A TOWN OR
SUBDIVISION FILL IN THE FOLLOW-
ING:

Town or Subdivision _____

Street address or Lot and Block _____

The above well (has) (has not) been registered in the Office of the State Engineer prior
to May 1, 1957. If Registered give Filing No. _____.

If NOT Registered prior to May 1, 1957, a \$5.00 filing fee accompanies this form.

The above statements are true and correct to the best of my knowledge and belief.
Subscribed and Sworn before me

this 20th day of April, 1960My commission expires June 5, 1963

(SEAL)

James C. Sanderson
Notary Public

M. Keith Singer
Registrant
Attorney for Agnes R. Singer

FOR STATE ENGINEER'S USE

Located in 1-23 district, Teller County for IRRIGATIONRegistration No. 5 in 1-23, on APR 29 1960, 19

Recpt. Mailed 6-28-60, M. Keith Singer, Florissant, Colo.

Form F (Rev.)

7-57/5M

SEP 19 1960

OCT 4 - 1960

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER, GROUND WATER SECTION

RECEIVED

APR 29 1960

GROUND WATER SECTION

CITY OF

STATE ENGINEER

REGISTRATION NO. 1 OF WELL #3Registrant Agnes R. SingerDate April 26 1960P.O. Address Florissant, Colo.

WELL LOCATION

County Teller 60WELL DATA
Depth 72 ft. Diameter 2 in.NE 1/4 Section 14Casing : 36 1/2 ft. Plain; 16 ft. Perfor.Twp. 13S, Rge. 71W, W6 PM

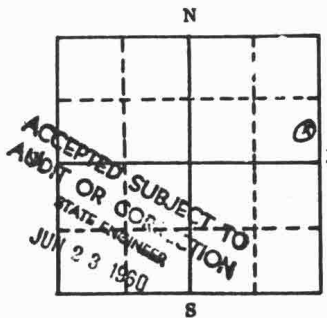
Static Water Level _____ ft. from top

Yield 50 (gpm)(cfs) from 25 ft.Used for Domestic and irrigation on/atNE 1/4 Sec 14 - Twp 13 N 21
(Legal description of land or site)Water conveyed by 1/2 hose, size _____

PUMP DATA

Type Electric Jet Size 1/2 hose 1 1/2 " pipeDriven by 1/2 at _____ RPMWell was first used May 1, 1955for Domestic using 40 cfsWell enlarged _____, 19 to

deepened _____ (gpm)(cfs)(ft)

LOG SHOULD BE GIVEN ON REVERSE
SIDE IF AVAILABLE

WELL TO BE LOCATED AS ACCUR-
ATELY AS POSSIBLE WITHIN A
SMALL SQUARE WHICH REPRESENTS
40 ACRES; OR IF IN A TOWN OR
SUBDIVISION FILL IN THE FOLLOW-
ING:

Town or Subdivision _____

Street address or Lot and Block _____

The above well (has) (has not) been registered in the Office of the State Engineer prior
to May 1, 1957. If Registered give Filing No. _____.

If NOT Registered prior to May 1, 1957, a \$5.00 filing fee accompanies this form.

The above statements are true and correct to the best of my knowledge and belief.
Subscribed and Sworn before me

this 20th day of April, 1960My commission expires June 5, 1963

(SEAL)

James Charles Hensley
Notary Public

M. Keith Singer
Registrant
Attorney for Agnes R. Singer

FOR STATE ENGINEER'S USE

Located in 1-23 district, Teller County for IRRIGATIONRegistration No. 5 in 1-23 on APR 29 1960, 19 .

Other Supporting Information

1 E.S. Docket #3 - Singer Well

December 4, 1990

L54(479)
FLPO/Water Rights

Ms. Deirdre Hills, Legal Technician
Land and Resources Division
Department of Justice
Federal Building
1961 Stout Street, Drawer 3607
Denver, CO 80294

Re: Water Division No. 1 - Case No. W-8797-77

Dear Deirdre:

We have reviewed a copy of the FINDINGS AND RULING OF THE REFEREE . . . in the above-captioned case and find facts and ruling to be accurate to the best of our knowledge. Please send us a signed copy of the Decree when completed.

If you have any additional questions concerning this case please contact me at (303) 493-1441.

Sincerely,

W.R. Hansen

William R. Hansen
Hydrologist

cc: SOL - Kees

FNP:BHANSEN:jf:(303)493-1441:12/04/90:WANG ID #783

*Rec'd on 1/1/91: Attached
to 12/23/90 letter from DOJ*

REPORT OF TELEPHONE CONVERSATION

DATE 11/2/90 TIME 1000 AM/PM
PROJECT FLFO Singer Well

NPS PERSON ON CALL Bill Hansen ☐ I CALLED ☒ S/HE CALLED

PERSON Ray Liesman
ORGANIZATION W01
ADDRESS _____
TELEPHONE NUMBER _____

DISCUSSION Discussed whether Singer Well could be classified as a exempt or non-exempt well based upon historical uses (Colorado Petrified Forest & the Dude Ranch). Ray suggested he would be willing to call the well "exempt" if we could live w/ the 3 single family residence, 1 acre lawn/garden & stockwater criteria. If we chose this option, all we have to do is notify Ray & follow up w/ a letter stating what the historic use & purposes were. He suggested we state that at least 3 single family residences existed (instead of cabins, etc) and that we would like a ruling under an exempt classification. No amended application is necessary according to Ray.

~~Ray~~ If we choose non-exempt status we will surely need a Aug. Plan for the new VC well. The normal call in the summer in this area is 1820. He said the "swing date" is about 1929 when many of the reservoir fill its were established. We cannot use H₂O from exempt wells in Aug Plan. We cannot combine many exempt wells to make 1 big non-exempt well.

Ray said a Aug Plan in this area for the VC Well would be terribly expensive (have to purchase reservoir surface rights). He suggested we consider drilling numerous wells under "exempt" class, providing water for groups of 2-3 residences and transferring the old "non-exempt" VC well to the new VC.





United States Department of the Interior

NATIONAL PARK SERVICE

WATER RESOURCES DIVISION
301 SOUTH HOWES ST., ROOM 335
FT. COLLINS, COLORADO 80521



IN REPLY REFER TO:

L54(479)

FLFO/Water Rights

SEP 28 1990

Memorandum

To: Regional Director, Rocky Mountain Region

From: *W. Williams* Chief, Water Resources Division

Subject: Trip Report by Alice Johns for Travel to Florissant, Colorado, on August 30, 1990

The attached trip report concerns Alice Johns' travel to Florissant Fossil Beds National Monument. The purpose of the trip was to gather information needed to perfect a water right claimed by the National Park Service for the Singer Well (Case Number W-8797-77) in the water rights adjudication of Colorado Water Division 1.

If you have any questions, please feel free to call Alice Johns or Owen Williams at (303) 221-8304 or (303) 221-8301, respectively.

Owen R. Williams

Attachment

cc: ROMO - Superintendent
FLFO - Superintendent
DOJ - Johnson
RMR - Hermance
DSC - Anderson
479 - Hansen



United States Department of the Interior

NATIONAL PARK SERVICE

WATER RESOURCES DIVISION
301 SOUTH HOWES ST., ROOM 335
FT. COLLINS, COLORADO 80521



IN REPLY REFER TO:

September 28, 1990

L54(479)

FLFO/Water Rights

Memorandum

To: Chief, Water Resources Division

Through: Chief, Water Rights Branch *ORW 9/28/90*

From: Hydrologist, Water Rights Branch

Subject: Trip Report for Travel to Florissant Fossil Beds National Monument
on August 30, 1990

PURPOSE: The purpose of the trip was to gather information needed to estimate the consumptive use associated with the Singer Well (Case Number W-8797-77).

ITINERARY: Left official station on August 30, 1990, arrived Florissant Fossil Beds, and returned to official station the same day.

CONTACTS: Noel Poe, Superintendent

DISCUSSION: Poe and I examined a parcel of land acquired by the National Park Service from the Singer's in the mid-70's. The purpose was to obtain an estimate of the acreage of hay meadow irrigated by the Singer Well. This information was requested by Ray Liesman, Referee for Water Division 1, in order to perfect the water right for the Singer Well. Liesman's concern was that the pumping rate of 50 gpm claimed by the United States for the Singer Well did not seem sufficient for the claimed 60 irrigated acres.

From aerial photo and field examination, a ditch line was traced along the border of a meadow area. However, evidence of water being pumped from the Singer Well to the ditch was not apparent. It appeared the ditch was fed by the stream channel adjacent to the well rather than from the well directly. From the 1956 aerial photo, the area which may have been irrigated from the ditch was estimated using a dot grid.

The Singer Well and water tank which served the Colorado Petrified Forest Resort, prior to its acquisition by the United States, were examined. Near the well (within 10 feet) are some old timbers which may have been part of the original pumphouse. Within 50 feet of the well is an upright corrugated pipe surrounded by four metal brackets. Poe observed that the brackets were

probably mounts for a windmill. In previous correspondence (memorandum of July 13, 1990, from Superintendent, Florissant Fossil Beds National Monument, to Chief, Water Resources Division) a windmill over the well and a pumphouse adjacent to the well were described:

"Mrs. Singer remembers the well. She stated that there was always a windmill over the well. Singer recalls a small 'pumphouse' that had a water softener and booster pump to lift the water to the large storage tank that sat on the hill above the resort."

(Note that Mrs. Singer is the wife of Robert C. Singer, son of previous owners of the parcel. Robert C. Singer helped his parents run the resort during busy visitor times, however, Mrs. Robert Singer probably visited the resort less frequently.)

From the field examination of the well, the following became apparent:

- the windmill was probably not located directly over the Singer Well
- the Singer Well was probably enclosed within the pumphouse referred to by Mrs. Singer.

The water storage tank was also examined and the volume estimated based on field measurements.

Poe provided me with a copy of the deed transferring the Singer property to the United States. The deed contained a map delineating range condition for irrigated and non-irrigated areas.

ACTION ITEMS:

1. Discuss the findings of this trip with the Chief Water Rights Branch and legal counsel, and obtain direction to perfect the water rights for the Singer Well.

Responsible Party: Johns. Target Date: Completed.

2. Calculate the consumptive use associated with the Singer Well and obtain additional information needed to complete an amended water rights application.

Responsible Party: Johns, Hermes. Target Date: October 15, 1990.

Alvin Johns

WRB
10/12/90

AN ESTIMATE OF WATER USE FROM FLORISSANT FOSSIL BEDS
NATIONAL MONUMENT WELL #3, THE SINGER WELL, PRIOR TO
TO ITS ACQUISITION BY THE UNITED STATES IN 1973

Prepared by Mary Hermes, Research Assistant
October 10, 1990

An estimate of the amount of water used annually from Florissant Fossil Beds National Monument (FLFO) Well #3, also known as the Singer Well, prior to its acquisition by the United States in 1973, was made. Prior to 1973, FLFO Well #3 was used as a source of water for the Colorado Petrified Forest Resort. The estimated water use, based primarily on information contained in a July 13, 1990 memorandum from the Superintendent of FLFO to the Chief of the Water Resources Division of the National Park Service (National Park Service, 1990), accounts for the following water uses associated with the resort: family, staff, and visitor use, livestock use, and lawn and garden use.

Family, Staff and Visitor Use

The following assumptions were made in calculating the family, staff, and visitor use:

1. The family and any permanent help included six people, who lived at the ranch year-round.
2. The resort included 6 guest rooms, which on average, were occupied by 2 people per room and 4 guest cabins, which on average, were occupied by 4 people per cabin.
3. During July, the peak visitation month (based on 1973 park visitation records), the overnight guest facilities were filled to capacity.
4. For every other month, the percentage of visitors staying overnight was equal to the ratio of the 1973 visitation for that month to the 1973 visitation for the month of July.
5. Overnight guests ate all of their meals at the resort.
6. The number of day visitors (those not staying overnight at the resort) each month was equal to the number of visitors to FLFO minus the estimated number of overnight guests during that month in 1973.
7. The average water use per year-round resident was 75 gallons per day (gpd) (U.S. Environmental Protection Agency (EPA), 1982).
8. The average water use per overnight guest (including preparation of three meals) was 60 gpd (EPA, 1982).
9. The average water use per day visitor was 5 gpd (EPA, 1982).

As shown in Worksheets 1 and 1A, based on these assumptions, the annual water requirement for family, staff and visitor use was determined to be 444,065 gallons.

Livestock Use

The following assumptions were made in calculating the livestock use:

1. Considering the numbers of year-round residents, overnight guests, and day visitors, it was assumed that the well was a source of water for an average of 25 head of livestock each day during the entire year.
2. The average water requirement per animal per day was 12 gallons (EPA, 1982).

Based on these assumptions, the annual water requirement for livestock use was determined to be 109,500 gallons (see Worksheet 1).

Lawn and Garden Use

The following assumptions were made in calculating lawn and garden use:

1. The lawn and garden acreage for which well water was used included one acre, a 0.4 acre lawn and a 0.6 acre garden.
2. Climatological data from the National Oceanic and Atmospheric Administration station, Lake George 8 SW, which is approximately 6 miles from FLFO (Poe, 1990), adequately reflects climatological conditions which existed while the resort was in operation.
3. For use in calculating the total amount of water required for irrigation, the average crop coefficients for grass and garden crops were assumed to be 0.75 and 0.70, respectively (U.S. Department of Agriculture (USDA), 1962), the growing season was assumed to extend from June 14 to September 13 (Colorado Climate Center, 1990), and an irrigation efficiency of 70 percent was assumed (USDA, 1962).

Based on these assumptions, the annual water requirements for irrigation, using the Blaney-Criddle method of estimating evapotranspiration, was calculated to be 246,829 gallons (see Worksheets 1 and 1B).

Totalling the amount of water required for the uses described, allows the total annual water use from FLFO Well #3 to be calculated as follows:

$$444,065 + 109,500 + 246,829 = 800,394 \text{ gal/yr or } 2.46 \text{ AF/yr}$$

To check the reasonableness of this figure, the estimated peak day demand was compared with the measured pumping rate of the well, 25

gal/min. The peak day demand calculated was 5178 gal/day (see Worksheet 1C), and pumping at a rate of 25 gal/min for 12 hours per day, the well would yield 18,000 gal/day. Thus, the well was capable of meeting the estimated peak day demand.

Mary Hermes

REFERENCES

Colorado Climate Center, written communication, September, 1990.

National Park Service, written communication from Superintendent,
Florissant Fossil Beds National Monument to Chief, Water
Resources Division, July, 1990.

Poe, Noel, personal communication, September, 1990.

U.S. Department of Agriculture, 1962. Determining consumptive use
and irrigation water requirements, Agricultural Research
Center Technical Bulletin No. 1275.

U.S. Environmental Protection Agency, 1982. Manual of individual
water supply systems.

Annual Water Requirements for Singer Well

WORKSHEET 1Family, Staff, and Visitor UseM. Hermes
10/9/90

- family & permanent help!

$$(75 \text{ gpcd} \times 6 \text{ c}) (365 \text{ day/yr}) = \underline{164,250 \text{ gal/yr}}$$

- overnight visitors:

- from worksheet 1A, total # of overnight stays
is 3257 people

$$? (50 + 10 \text{ gpc} \times 3257 \text{ people/yr}) = \underline{195,420 \text{ gal/yr}}$$

- day visitors:

- from worksheet 1A, total # of day visitors
is 16879 people

$$(5 \text{ gpc} \times 16879 \text{ people/yr}) = \underline{84,395 \text{ gal/yr}}$$

$$\text{TOTAL} = 164,250 + 195,420 + 84,395 = \underline{444,065 \text{ gal/yr}}$$

Livestock Use

$$(12 \text{ gal/animal-day} \times 25 \text{ animals} \times 365 \text{ d/yr}) = \underline{109,500 \text{ gal/yr}}$$

$$\text{TOTAL} = \underline{109,500 \text{ gal/yr}}$$

Lawn and Garden Use- from worksheet 1B, lawn and garden use
is 246,829 gals/yr

$$\text{TOTAL} = \underline{246,829 \text{ gal/yr}}$$

$$\text{GRAND TOTAL} = 444,065 + 109,500 + 246,829 = 800,394 \text{ gals/yr}$$

OR 2.46 AF/yr

WORKSHEET 1A

Florissant Fossil Beds National Monument
 Monthly visitation figures obtained from the Denver Service Ctr.

Col. 6

	Mon. visitation		% of annual visit. per mon.		% visit. per mon./ % visit. per peak mon.	
Month	1973	1974	1973	1974	1973	1974
JAN	9	18	0.0446	0.0699	0.001677	0.002513
FEB	53	13	0.2632	0.0505	0.009880	0.001815
MAR	106	248	0.5264	0.9641	0.019761	0.034636
APR	451	693	2.2397	2.6942	0.084079	0.096787
MAY	1375	2160	6.8285	8.3978	0.256338	0.301676
JUN	4080	4698	20.262	18.265	0.760626	0.656145
JUL	5364	7160	26.638	27.837	1.000000	1.000000
AUG	5044	7035	25.049	27.351	0.940343	0.982542
SEP	2383	2245	11.834	8.7282	0.444258	0.313547
OCT	1069	1165	5.3088	4.5293	0.199291	0.162709
NOV	151	220	0.7499	0.8553	0.028150	0.030726
DEC	51	66	0.2532	0.2565	0.009507	0.009217
Total	20136	25721	100	100		

Month	Overnight stays	Day visits
JAN	1	8
FEB	9	44
MAR	17	89
APR	73	378
MAY	223	1152
JUN	660	3420
JUL	868	4496
AUG	816	4228
SEP	386	1997
OCT	173	896
NOV	24	127
DEC	8	43
Total	3258	16878

Notes:

Overnight stays = (# from Col. 6) (Capacity visit. for peak month)
 Capacity visit. for peak month = (28 people/day) (31 days)
 Day visits = Monthly visitation - Overnight stays for the month
 1974 visitation was not used in the computations, it merely
 served to insure the reasonableness of the data from 1973.

M. Hermes
 10-10-90

WORKSHEET 1B

Estimate of total water requirements for irrigation using the Blaney-Criddle method, Florissant Fossil Beds National Monument

$$\text{Total Water Req'd.} = \frac{\text{Irrigation Req.}}{\text{Efficiency}}$$

$$\text{Irrigation Requirements} = \text{Consumptive Use} - \text{Effective Precip.}$$

Consumptive Use (U)

$$U = \sum Kmf \quad \text{where } f = \frac{t_p}{100}$$

Avg. latitude (taken from USGS Lake George, CO 7½' quad) is approx. equal to 38°55' N lat.

Length of growing season $\approx$ 92 days ^{summer}

Growing season extends from approx. June 14 to Sept. 13[±]

- For lawn use:

	t_p , Avg. Mon. Temp (°F) ¹	P , Avg. Daytime Hrs. Mo. if yr ²	Avg. Mon. K for grass ²	U , Consumptive Use (in)
June	55.0	10.03	.75 x 56.7%	2.35
July	61.1	10.16	.75 x 100%	4.65
Aug.	59.1	9.51	.75 x 100%	4.21
Sep.	51.7	8.30	.75 x 43.3%	1.41
TOTAL				12.62 inches

	Precip (in) ¹	EFF. Precip (in) ²
June	1.42 x 56.7%	.76
July	2.48	2.24
Aug.	2.45	2.22
Sep.	1.11 x 43.3%	.46
TOTAL		5.68 inches

2

$$\text{Irrigation Req.} = 12.62 - 5.68 = 6.94 \text{ inches}$$

Assuming a 0.4 acre lawn!

$$\text{Irrigation Req.} = (6.94 \text{ in}) \left(\frac{1 \text{ ft}}{12 \text{ in}} \right) (0.4 \text{ ac}) = .23 \text{ AF or}$$

75,415 gals.

- For garden use:

	t, Avg. Max Temp (°F)	P, Avg. Chy time Hrs. (% of yr)	Avg. Max K for garden ²	U, Consumptive Use (inches)
June	55.0	10.03	.7 x 56.7%	2.19
July	61.1	10.16	.75 x 100%	4.35
Aug	59.1	9.51	.75 x 100%	3.93
Sep	51.7	8.38	.75 x 43.3%	1.31
				<u>TOTAL 11.78 inches</u>

$$\text{Irrigation Req.} = 11.78 - 5.68 = 6.10 \text{ inches}$$

Assuming a 0.6 acre garden!

$$\text{Irrigation Req.} = (6.10 \text{ in}) \left(\frac{1 \text{ ft}}{12 \text{ in}} \right) (0.6 \text{ ac}) = .30 \text{ AF or}$$

99,430 gals.

Assuming an irrigation eff. of 70%?

$$\text{Total water Req'd.} = \frac{.23 + .30 \text{ AF}}{.7} = .757 \text{ AF or}$$

246,829 gals.

REFERENCES

- 1 Colorado Climate Center, written comm., September, 1990.
- 2 U.S. Dept. of Agriculture, Agricultural Research Service, 1962. Determining Consumptive Use and Irrigation Water Requirements, Technical Bulletin No. 1275.

M. Hermes
10/9/90

WORKSHEET 1CM. Hermes
10/9/90

Calculating peak day demand for Singer Well:

Family, Staff, and Visitor Use

- family and permanent help:

$$75 \text{ gpd} (6 \text{ people}) = 450 \text{ gal/day}$$

- overnight visitors:

$$60 \text{ gpd} (28 \text{ people}) = 1680 \text{ gal/day}$$

- day visitors (from worksheet A):

$$5 \text{ gpd} (145 \text{ people})^* = 725 \text{ gal/day}$$

* July vis
31 days

$$\text{TOTAL} = 450 + 1680 + 725 = 2855 \text{ gal/day}$$

Livestock Use

$$(12 \text{ gal/animal-day}) (25 \text{ animals}) = 300 \text{ gal/day}$$

$$\text{TOTAL} = 300 \text{ gal/day}$$

Lawn and Garden Use

- from worksheet B, total water req. = 246,829 gal/yr

$$(246,829 \text{ gal/yr}) \times \frac{1 \text{ yr}}{4 \text{ mos}} \times \frac{1 \text{ mo}}{30.5 \text{ days}} = 2023 \text{ gal/day}$$

$$\text{TOTAL} = 2023 \text{ gal/day}$$

$$\text{GRAND TOTAL} = 2855 + 300 + 2023 = \underline{\underline{5178 \text{ gal/day}}}$$

Given pumping rate of 25 gpm:

$$25 \text{ gpm} \left(\frac{60 \text{ min}}{1 \text{ hr}} \times \frac{12 \text{ hr}}{\text{day}} \right) = \frac{18000 \text{ gal/day}}{12 \text{ hrs/day}} \text{ pumping}$$

∴ Calculated pumping req. < Pumping rate. //

W-8797-77

September 4, 1990

134(479)
RMR/Water Rights

Lynn Johnson, Attorney
U.S. Department of Justice
Federal Building, 1961 Stout Street
Box 3607
Denver, Colorado 80294

Re: Case Nos. W-8788-77, W-8789-77, W-8791-77, W-8794-77, W-8797-77, W-8798-77, 84 CW 419, 85 CW 342, 85 CW 343, 85 CW 344, 85 CW 345, 85 CW 346, 85 CW 347, 85 CW 348, 85 CW 349, 85 CW 350, 85 CW 351, 85 CW 376 and 85 CW 384, 85 CW 377, 85 CW 378, 85 CW 379, 85 CW 380, 85 CW 381, 85 CW 382, 85 CW 383, 85 CW 385 (Response to Your Letter of August 22, 1990)

Dear Lynn:

The current status of the above-cited cases follows. In regard to case number W-8788-77, (reserved rights, Rocky Mountain National Park) we have taken initial steps towards the preparation of evidence. Referring to the March 6, 1990, town day that the court has no intention of addressing other Federal reserved water rights claims until the United States Forest Service reserved right claims are handled.

In regard to W-8789-77, W-8791-77, W-8794-77, 85 CW 342, 85 CW 343, 85 CW 344, 85 CW 345, 85 CW 346, 85 CW 347, 85 CW 348, 85 CW 349, 85 CW 350, 85 CW 351, 85 CW 376 and 85 CW 384, 85 CW 377, 85 CW 378, 85 CW 379, 85 CW 380, 85 CW 381, 85 CW 382, 85 CW 383, 85 CW 385, (appropriative water right claims, Rocky Mountain National Park) Ken Czarnowski of my staff contacted Liesman to discuss our progress on these cases. Czarnowski indicated the National Park Service (NPS) is moving forward on these cases but won't have anything available for this town day. Liesman said he would not dismise the cases so long as NPS was moving forward.

In regard to 84 CW 419, W-8797-77, and W-8798-77, Alice Johns of my staff contacted Liesman to discuss progress on these cases. A summary of the status of these rights, as indicated to Liesman, is attached (Appendix A). Also attached is the following documentation concerning these cases:

Appendix B: Case 84 CW 419:

--Completed change application and supporting documentation.

ONLY APPLICABLE APPENDICES INCLUDED

2

Appendix C: Case W-8797-77:

--Transmittal memorandum, pump test results, and an affidavit from William F. Metrich, indicating a sustained pumping rate of 29.42 gallons per minute after 2 hours. (Liceman just asked that we measure the flow rate.)

Appendix D: Case W-8798-77:

--Memo to the Superintendent recommending that NPS not pursue a water right for that well and that DOJ request dismissal of the case.
--Memo from the Superintendent concurring that NPS not pursue a water right for the well.

In light of the attached information, the National Park Service requests that DOJ seek dismissal of Case Number W-8798-77.

If you have further questions concerning these cases, please contact me, Don McGlothlin (Rocky Mountain NP Federal reserved water rights), Ken Cunniffski (Rocky Mountain NP appropriative water rights), or Alice Johns (Pleinchant Forest RMA appropriative water rights) at (303)221-8302.

Owen Williams

Owen R. Williams
Chief, Water Rights Branch

cc: RONO - Superintendent
FLFO - Superintendent
RNR - Wernance, (w/attachments)

FNP:APW:jt:(303)221-8304:09/04/90:WANG ID #620

Appendix A
Case Numbers 84 CW 419, W-88797-77, and W-8798-77

Summary of the status of Case Numbers 84 CW 419, W-8797-77, and W-8798-77 (Florissant Fossil Beds National Monument) as indicated to Referee Liesman during an August 22, 1990, telephone conversation with Alice Johns:

- 84 CW 419: Well Abandonment Affidavit for Headquarters Well Number 1 has been completed, along with a supporting affidavit from an individual who worked for the drilling company that plugged well number 1. A change application for the water right was completed.
- W-8797-77: A flow rate measurement for the Singer Well (referred to by Liesman as Lodge Well) has been completed. The original registration form for this well indicated that the well was used to irrigate 60 acres. However, the land was actually irrigated from water from a stream channel adjacent to the well. The stream channel and the well tap the same water source. The well was used for a lodge/dude ranch/museum. The NPS still needs to complete a consumptive use calculation for this claim, but will not have this completed for term day. The NPS is considering filing a change application on this water right to use it for the new visitor center water supply. Liesman said he probably would not dismiss this case since we were still moving forward on it.
- W-8798-77: The NPS could find no documentation of this well being in existence prior to 1972. Nor could we find any documentation of permits for 1972 or thereafter.

Appendix C
Case W-8797-77



United States Department of the Interior

NATIONAL PARK SERVICE
DENVER SERVICE CENTER
12795 W. ALAMEDA PARKWAY
P.O. BOX 25287
DENVER, COLORADO 80225-0287

IN REPLY REFER TO:

D5039 (DSC-TCE)
FLFO-150-06

JUN 25 1990



National Park Service
Division of Water Resources
Attn: [REDACTED]

Reference: Florissant Fossil Beds National Monument, Pkg. 103,
Construction of Visitor Center/Park Support Facilities,
PT 06

Subject: Pump Test of National Park Service (NPS) Well Number
Three (Singer Well).

Enclosed are the results of the pump test performed on the Singer Well in May. These results were obtained after jetting enough sediment and debris from the well to allow use of the Contractor's submersible pump in the well. A subsequent pump test with a higher capacity pump on June 8, produced a lower flow rate than the previous test on May 16, due to additional sediment accumulation in the well during the time between pump tests. The pumped water during this second test was black with sediment and repair of the damage to the contractor's pump will be paid from the contract money for this pump test.

Although the well is probably capable of yielding a flow greater than the 25 gallons per minute (gpm) obtained, additional money would be required to alleviate the sedimentation problem and remove the blockage noted on the contractor's letter attached to the results. These pump tests results are best that can be obtained without further expenditure of time and money.

Gary Anderson
Gary Anderson

Enclosure

RMPD, LTD.
DBA
ROCKY MOUNTAIN
PUMP & DRILLING

WATER WELLS, PUMPS, SEPTIC SYSTEMS
LIC. # 1155

POST OFFICE BOX 287
FLORISSANT, COLORADO 80818

(719) 687-6379, (719) 748-3318

June 11, 1990

National Park Service
Denver Service Center
ATTENTION: Gary Anderson
12795 West Alameda Parkway
P.O. Box 25287
Denver, CO. 80225

RE: Cleaning of Trash in NPS Well #3 (Singer). May 16, 1990

Well Depth: 52 Feet
Static Water Level: 36"
Casing Height: 25" Above Grade (after adding 4' & pushing in 6')
All measurements from top of casing 25" "Above Grade".
Existing Casing: 61/2 ID, 71/4 OD with seperation at approx.
17 foot 4 inches.

Steel Casing Total Depth: 51 Feet
Obstruction at 28 Feet
Pump Intake: 26 Feet

Could not install pump past 26 foot due to blockage inside steel casing at approx. 28 feet. Possibly better yield at deeper pump setting.

If you have any questions, please feel free to contact me.

Sincerely,


William F. Dietrich
RMPD, LTD.

National Park Service
 Owner Florissant Fossil Beds Address 15807 Teller Co., No. 1 County Teller State CO
 Date 05/16/90 Company performing test RMPD, LTD. Measured by _____
 Well No. _____ Distance from pumping well 50' Type of test Pump Test No. _____
 Measuring equipment 5 gallon bucket with time clock

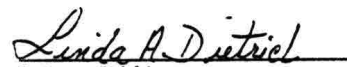
Time Data				Water Level Data				Discharge Data				Comments on factors affecting test data
Pump on Date	Time	(r)	(r)	Static water level	Measuring point	Elevation of measuring point	How Q measured	Depth of pump/air line	Previous pumping? Yes ☒ No ☐	Duration	End	
5/16	2:49			36"	steel casing	25"	5 gal. pail	26'				Could not install pump past 26 feet due to blockage steel casing at 28 foot. Possibility better yield at pump setting.
Pump off Date	Time											
Duration of aquifer test	Recovery											
5/16	2:49	pm		13'6"			20 GPM					
	2:55			17'6"			"					
	2:58			22			"					
	3:05			26			"					
	3:15			19			15 GPM					
	3:20			11'6"			"					
	3:45			9'6"			27.5 GPM					
	3:55			9'6"			25 GPM					
	4:05			9'10"			"					
	4:15			10'1"			"					
	4:25			10'1"			"					
	4:35			10'2"			"					
	4:45			10'3"			"					
END TEST												
RECOVERY DATA												
5/16	4:46											
	4:47			9'9"								
	4:48			9'6"								
	4:49			9'								
	4:50			8'8"								
	4:51			8'6"								
	4:52			8'4"								
	4:57			7'8"								
	5:02			7'3"								
	5:07			6'11"								
	5:12			6'6"								

STATE OF COLORADO)
) ss:
COUNTY OF Teller)

I, William F. Dietrich, of RMPD, LTD. #1155,
on May 16th, 1990, conducted a pump test on the Singer Well
located in Florissant Fossil Beds National Monument, in the
SE1/4NE1/4 of Section 14, T13S, R71W, 6th P.M. The maximum
sustained pumping rate of the well after 2-hours
was 25.42 gallons per minute.


Signature

Subscribed and sworn to before me this 11th day of June, 1990.
Witness my hand and official seal.


Notary Public
Address: 17831 County Road 1
Florissant, CO. 80816

My commission expires: February 25, 1993



United States Department of the Interior

NATIONAL PARK SERVICE
Florissant Fossil Beds National Monument
P.O. Box 185
Florissant, Colorado 80816



IN REPLY REFER TO:

L54 (FLFO-M)

July 13, 1990



Memorandum

To: Chief, Water Resources Division
Attn: Alice Johns

From: Superintendent, Florissant Fossil Beds Natl Monument

Subject: Information on FLFO Well #3, Singer Well

The following information is a history of Well #3, commonly called the Singer Well. I apologize for taking so long in getting this information back to you, but I wanted to do a thorough job and substantiate the staff's and local residents' comments.

The Singer Well served the Colorado Petrified Forest Resort from the mid 1950's until the land and water rights were sold to the U.S. Government by Agnes Singer in 1973. The well was drilled in the Spring of 1955 and a water right was filed with the State of Colorado under permit no. 13731. The priority date was established as May 1, 1955, and the quantity of water was determined to be 0.111 cfs. In 1955, the purpose of the well was for "Domestic, Irrigation". The irrigated land description was "60 acres of meadow, SE1/4 of NE1/4 Sec 14, T13S, R71W." ¹

Pre-Monument History: Colorado Petrified Forest Resort started operating as a tourist attraction in the 1890s. ² It was originally owned by Ernest Chapman. Chapman's main livelihood was farming and

¹ From NPS #3 Well File, Florissant Fossil Beds Natl Monument. A September 1956 black and white aerial photograph at the Monument shows the dams and an area of darker vegetation that can be assumed to be irrigated in the vicinity of the above legal description.

² Page 3, Florissant Fossil Beds National Monument, A Proposal; 1962, NPS, Midwest Region.

raising cattle. The resort was expanded by a Mr. Copeland when he moved the Colorado Midland Railroad Depot from Florissant to the Petrified Forest in 1923.³

The Singer family became involved when Palmer J. (Red) and Agnes Singer purchased the property in 1927.⁴ They expanded the services after World War II. During the 1950s and 1960s, the resort offered overnight accommodations (6 rooms upstairs plus some small cabins), a dining room, riding stable, a fossil museum downstairs, and a souvenir/gift shop. The resort offered both guided auto tours and horseback trips.⁵

In a phone conversation, Mrs. Robert C. Singer told me that after she married Robert (son of Red) they moved to Colorado Springs and she spent most of her time there. Robert returned to Florissant to help during the busy visitor times.⁶

Mrs. Singer remembers the well. She stated that there was always a windmill over the well. Singer recalls a small "pumphouse" that had a water softener and booster pump to lift the water to the large storage tank that sat on the hill above the resort. There may have been a "pumpjack" or other gasoline pump for times when the wind didn't blow. She said they used the water from that well for domestic purposes at the resort, irrigating a lawn and a garden, and watering the livestock, mostly horses.

She stated that her family had built two dams across the same drainage where the well is located and used that water to irrigate the hayfields below the dams. She didn't know the actual acres irrigated. (Although they have been breached, the dams remain and there is evidence of the irrigation ditches.)

³ Letter from Frank L. Jones to Lance Williams written in November 1975, FLFO File D3423.

⁴ Fossils or A-Frames, Rocky Mountain West Magazine, September/October 1969.

⁵ Numerous historical brochures from Colorado Petrified Forest on file at the Monument. The brochure called "Broncho Dude Ranch" has a photograph of the resort showing the guest cabins (either 3-4), outbuildings, barn and a portion of the corrals. It appears there was landscaping and lawn around the front and sides of the main lodge.

⁶ July 11, 1990 phone conversation with Mrs. Robert C. Singer. Mrs. Singer stated that she is the closest living relative. The rest of the relatives are grandsons and great-grandsons of P.J.

Hopefully this information is of value. If you need additional information and clarification, please contact me at 719/748-3253.

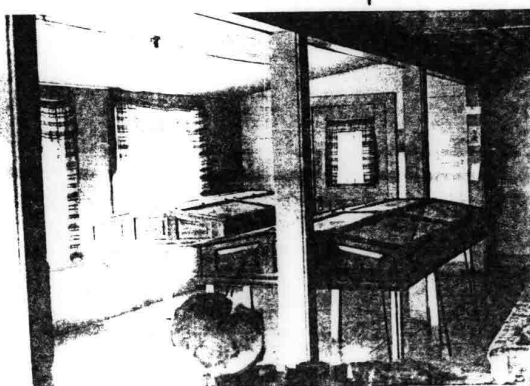
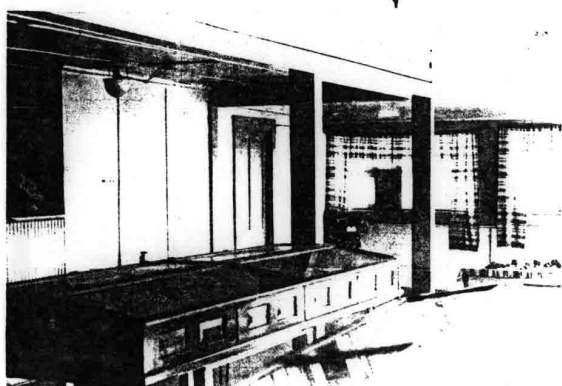
A handwritten signature in black ink, appearing to read "Noel R. Poe". The signature is stylized with a large, looped "N" and "P".

Noel R. Poe

Enclosures: Photocopies of photos of Colorado Petrified Resort.
Copy of the "Broncho Dude Ranch" brochure.
Copy of "Colorado Petrified Forest" brochure w/
dinosaurs.



COLORADO PETRIFIED RESORT AT THE TIME IT WAS PURCHASED
BY THE GOVERNMENT.





*h, Picnic,
or Hike the Trails
Famed Colorado
ified Forest*

ic roads leading to a high
in wonderland . . . horse-
rails . . . fishing in clear
streams . . . woodland picnic
... inviting hiking paths . . .
ating pine-scented air . . .
ler post-card blue Colorado
... where the romance of
toric times meets today's
cience of nature in a color-
ationland.

ne fabulous Petrified Forest
rest rooms . . . main lodge
rio and souvenir store . . .
facilities . . . and riding
... assure you carefree days
usual living . . . true west-
pitality for the entire family.

night Accommodations

It's Largest
ified Stump
4 Ft. in
umference
Ft. Tall

Oligocene
Fossil
Beds
▼
50,000,000
Years Old

Colorado
**PETRIFIED
FOREST**



HISTORI
Petrified
in
ROCK

Entrance on Route 143 . . . two miles south of U.S. 24 at Florissant, Co



*You've Heard About
This Great
Petrified Forest*

Now See It!

Against the majestic background of Pikes Peak, the Colorado Petrified Forest stands, today, one of the great wonders of the geologic eras—a tascination of the prehistoric "Age of Mammals."

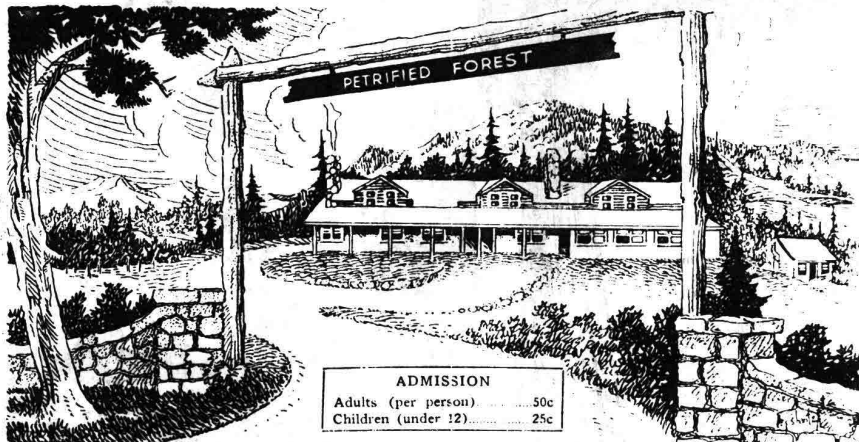
At 2,200 feet above sea level, thousands of Redwood trees each year that the giant Redwood trees once grew in the Rocky Mountains.

Excavations, still underway, are revealing even petrification—more educational and interesting



See the petrified rock fireplace at the lodge. Visit the museum of fossils.

ENTRANCE GATE AND LODGE OF THE COLORADO PETRIFIED FOREST



ADMISSION
Adults (per person) 50c
Children (under 12) 25c

scientific marvels—beside the lava fields, fossil beds, logs and stumps already open to the public. In fact, the entire forest is a veritable paradise for fossil-hunters.

Discovered in pioneer times, the Colorado Petrified Forest was once the site of a huge inland ocean haven of the dinosaurs. Today, the park is a modern vacationland in

the scenic heart of Colorado with its wooded picnic spots, horseback and hiking trails, and mountain fishing.

At the main lodge, accommodations for overnight guests, souvenir store, saddle stable and fossil museum afford enjoyment for all the family. It's the Pikes Peak Region Hospitality center from which all other attractions may be easily reached—Cripple Creek, the Gold Camp, Lake George, Eleven Mile Canon fishing area, Royal Gorge, Manitou Springs, Cave of the Winds, Cliff Dwellings and Pikes Peak.

The Colorado Petrified Forest is history itself—preserved in rock—an outstanding attraction in the land of sun and shine. Once the home of the mammoths, it's a must on any vacation itinerary.

REGULATIONS—"It is unlawful to injure, destroy, or appropriate specimens of petrified wood of any size whatsoever, found within the boundary, or to deface, injure, disturb, or mark any ruins, relics, pictures, or other works of primitive or prehistoric man, or natural formations, and violators will be prosecuted to the full extent of the law."





Visit the Original
Colorado
Petrified Forest

*The Geological Wonder
of the Pikes Peak Region*
Interesting - Fascinating - Marvelous

—♦—♦—♦—
ORIGINAL
COLORADO PETRIFIED FOREST
FLORISSANT, COLORADO



Dude Ranching
For a Week or a Year
Is Great Sport

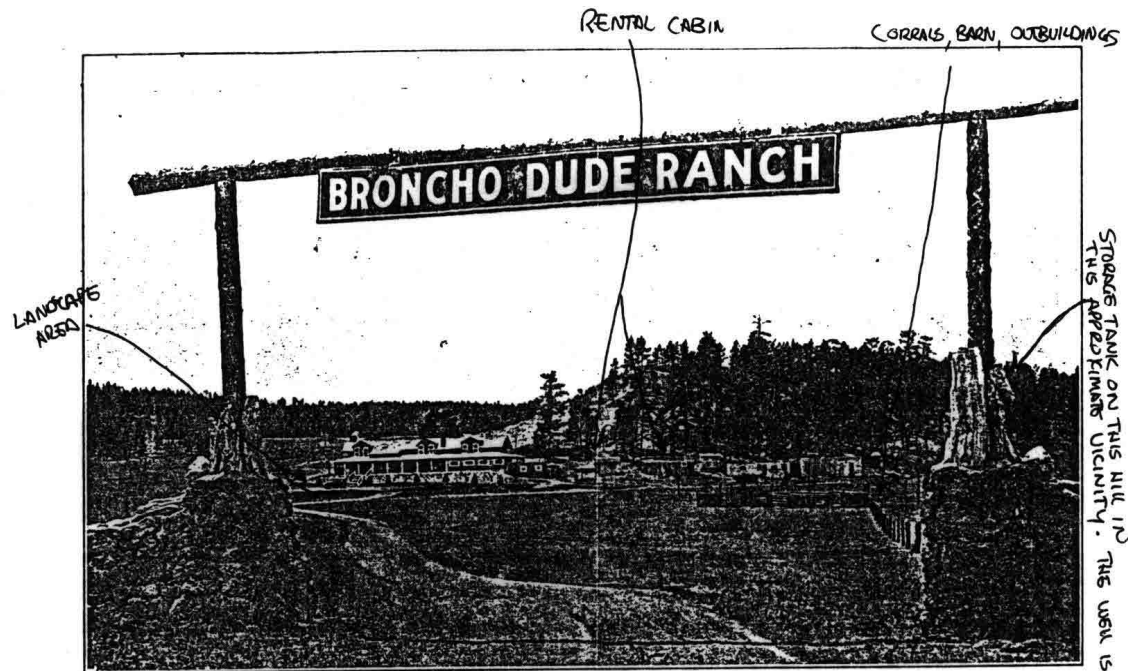
*Good Healthy Fun
On a Real Ranch
In a Real Ranch Country*

—♦—♦—♦—
BRONCHO DUDE RANCH
FLORISSANT, COLORADO



Petrified Stump of Giant Sequoia, Original Colorado Petrified Forest





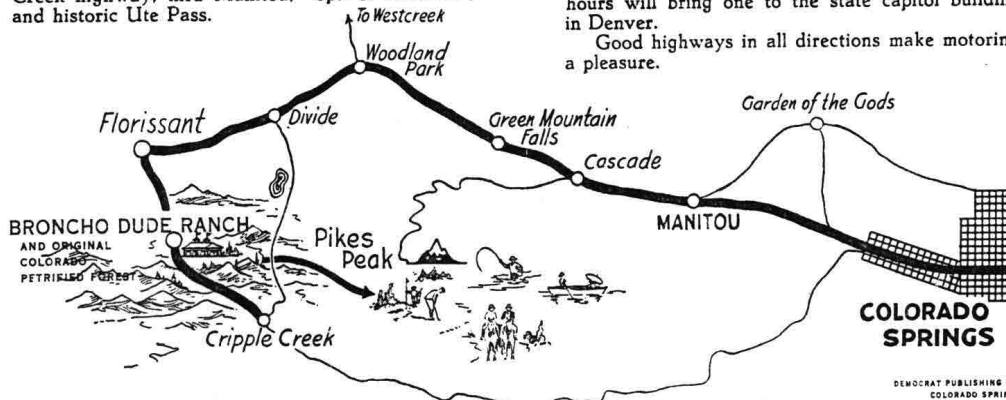
Entrance Gate and Lodge of the Broncho-Dude Ranch and Original Colorado Petrified Forest

But 36 miles from Colorado Springs, the Broncho-Dude ranch is only an hour and a half distant from this beautiful "City of Sunshine." The route is via the main Colorado Springs-Cripple Creek highway, thru Manitou, "Spa of America", and historic Ute Pass.

Cripple Creek—"the world's greatest gold camp"—is 18 miles to the south and west, nestling next to Victor, co-neighbor in this great mining district.

A pleasant motor trip of little more than three hours will bring one to the state capitol building in Denver.

Good highways in all directions make motoring a pleasure.



Map Showing Location of Broncho-Dude Ranch Property from Colorado Springs

DEMOCRAT PUBLISHING CO.
COLORADO SPRINGS

"thar's a gold mine
of health and good
fun in them thar'
hills and
yo're welcome!"



Whether your vacation plans call for a day or a fortnight, a month or a year—no matter the time or the season—your health and your pleasure will find satisfying enrichment at the Broncho-Dude ranch—where the abundant glories of Nature's great outdoors, the exhilaration of pine-laden mountain air and the healthfulness of Colorado sunshine combine to make life more worth the living.

Ranch life and all its attendant joys are available the year 'round. Corrals of real western saddle horses make possible riding trips over our beautiful wooded land, located in the heart of the Rockies at an altitude of 8,200 feet, or to the adjacent 60,000 acres of National Forest reserve.

A rodeo of your own is yours for the making. Rub shoulders with the cowboys.



Hunt and fish if you wish. Neighboring hills and mountains abound in deer, mountain lions, bobcats and smaller game that make of this section of the Rockies a veritable hunter's paradise. Nearby streams harbor the rendezvous of fish—game fish awaiting the struggle—trout!

Spend a day, a week, a month or longer. Hunting and camping parties—pack train outfits—are always available, with competent, courteous guides to direct you.

Located in the heart of the Pikes Peak region the Broncho-Dude ranch is easily accessible to all points of scenic grandeur for which this area is noted. These include Pikes Peak, the Royal Gorge spanned by the world's highest suspension bridge the Corley Mountain Highway, Cave of the Winds Garden of the Gods, Cheyenne Mountain Highway, Cripple Creek—still rich in the lore that made it "the world's greatest gold camp." Seven Falls Mount Manitou and numerous other attractions of interest.

And while you are enjoying yourself in the thrill and vigor of ranch life in the mountains—a modern lodge—and cabins, if you wish—provide every convenience of a city hotel, and an atmosphere of refinement, as well as a true western hospitality that you'll appreciate. A place where you return from a busy day of healthful enjoyment to while the early evening hours at dancing, bridge or games, before retiring for that rest which only Colorado's mountain-cooled evenings can give.

The Broncho-Dude ranch offers vacation opportunity for every member of the family—grown-ups or children.

Parents planning trips to Europe or other extended away-from-homes will find at our ranch a place where they may bring the boy or girl with confidence that every precaution will be taken for their health, amusement and happiness.

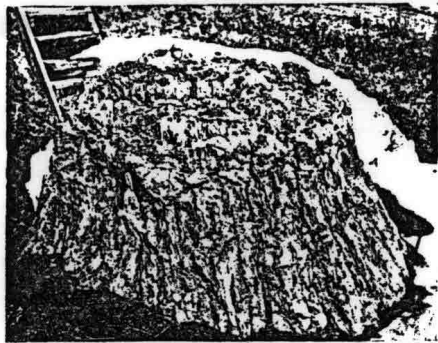


One of the boys on a high-octane

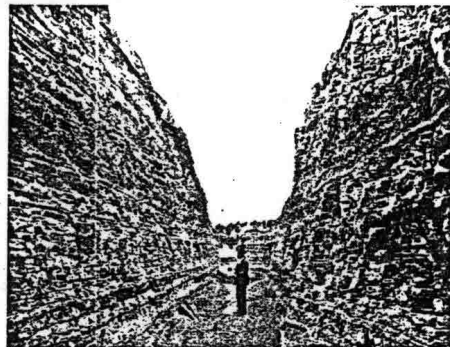
Broncho Dude Ranch

Florissant, Colo.

Rates \$20 a Week and Up



One of the Petrified Trees



Fossil Beds, Original Colorado Petrified Forest

The Amazing Original Colorado Petrified Forest

Discovered in the romantic pioneer days of Colorado, the Original Colorado Petrified Forest has taken its place as one of the really great wonders of western civilization and of the world.

A veritable forest of stone, it presents opportunity not alone for fascinating visits by lay man and sight-seer, but for educational study by those of scientific bent whose interest is captured by geological and allied natural phenomena.

Petrified stumps, logs and charcoal—huge fossil beds and lava fields—and other curiosities and wonders give to the forest an enchantment enriching in its pre-historic atmosphere. The standing petrified stumps here are the largest and most marvelous known—stumps that once were the Giant Sequoia, known as the Redwood of California. The largest measures 74 feet in circumference; the next largest, 61 feet; countless others are of varied shapes and sizes.

While for many years the forest stood in its natural state, excavations made of recent date and which are continuing to be made are bringing to light additional petrifications—further scientific revelations—in the land of geological wonders.

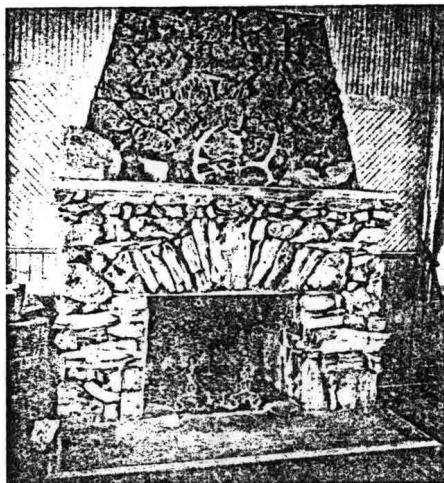
Opportunity for research presents itself on every hand. Not the research of browsing thru scientific treatises—as worthwhile, as interesting, as that may be—but the study, the thrill, that only can come by personal visit to, and thoro inspection of, the phenomena itself.

Aeons old, the Petrified Forest thru the media of its petrified stumps, its fossil beds and lava fields, contains in itself a written history recording the

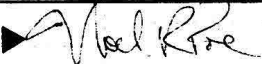
world's progress—a history which the scientists fathom to give us the record of primeval ages in a turbulent earth of upheavals.

A visit to this forest of stone is more than a fascinating pastime. It is a vivid lesson in natural history.

An admission charge of 50c for adults and 25c for children includes the services of a guide.



Fireplace Made of Lava Rock, Silica and Petrified Wood

ORDER FOR SUPPLIES OR SERVICES				PAGE 1 OF 1		
IMPORTANT: Mark all packages and papers with contract and/or order numbers.						
1. DATE OF ORDER May 4, 1990		2. CONTRACT NO. (if any) Open Market		3. ORDER NO. PX 1410-0-0031		
				4. REQUISITION/REFERENCE NO. M092-177		
5. ISSUING OFFICE (Address correspondence to) Florissant Fossil Beds Natl Monument P.O. Box 185 Florissant, CO 80816			6. SHIP TO: (Consignee and address, ZIP Code) Superintendent, Florissant Fossil Beds 15807 Teller County No. 1 Florissant, CO 80816			
7. TO: CONTRACTOR (Name, address and ZIP Code) Rocky Mountain Pump and Drilling P.O. Box 287 Florissant, CO 80816 719/748-3318 (Bill Dietrich)			8. TYPE OF ORDER ☒ A. PURCHASE - Reference your <u>Oral Quote 5/2/90</u> Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheets, if any, including delivery as indicated. This purchase is negotiated under authority of: <u>FAR 13</u> ☐ B. DELIVERY - Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.			
9. ACCOUNTING AND APPROPRIATION DATA 2001-4178-402 (2600) C1*			10. REQUISITIONING OFFICE DSC-TCE			
			11. BUSINESS CLASSIFICATION (Check appropriate box(es)) ☒ SMALL ☐ OTHER THAN SMALL ☐ DIS-ADVANTAGED ☐ WOMEN-OWNED			
12. F.O.B. POINT Destination		14. GOVERNMENT B/L NO. n/a		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) May 31, 1990		
13. PLACE OF INSPECTION AND ACCEPTANCE Destination				16. DISCOUNT TERMS N/A		
17. SCHEDULE (See reverse for Rejections)						
ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
1.	Cleaning of Trash in NPS Well #3 (Singer),	4	hr	\$65.00	\$260.00	
2.	Well Development in preparation of the pump test,	4	hr	122.00	244.00	
3.	Pump Test Well #3 to include the signing of attached Affidavit,	4	hr	115.50	462.00	
					\$966.00	
Notes: 1. Specifications for the pump testing procedures are attached. 2. Because of the uncertainty of this project, the hours were estimated high in a discussion between Contracting Office Rep and Contractor. However, it is possible that unforeseen problem may develop that require additional time. In this event, the COR and CO may authorize additional time. 3. Completion time is 5/31						
Just: CO Div of Water Resources has ordered NPS to verify water rights by June 1, 1990.						
18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(H). TOT. (Cont. pages)
21. MAIL INVOICE TO: (Include ZIP Code) Superintendent, Florissant Fossil Beds Natl Monument P.O. Box 185, Florissant, CO 80816						17(I). GRAND TOTAL
22. UNITED STATES OF AMERICA BY (Signature) 			23. NAME (Typed) NPS-RM-EX-399 Noel R. Poe, Superintendent TITLE: CONTRACTING/ORDERING OFFICER			

SCOPE OF SERVICES

WATER WELL PUMP TESTING - SINGER WELL(NPS NO. 3)
FLORISSANT FOSSIL BEDS NATIONAL MONUMENT

PART 1: GENERAL

1-1 DESCRIPTION: The work of this section consists of pump testing of an existing irrigation well in Section 14, T135N, R71W. The well to be tested is approximately 75 ft. deep.

1-2 COMPLIANCE: The Contractor shall comply with all the laws of the State pertaining to water well testing for a non-community supply.

1-3 CLOSEOUT SUBMITTALS: Submit an accurate record of the well testing. The record shall, at a minimum, contain the following information:

- A. The reference point for all depth measurements.
- B. The depth to the static water level before any pumping commences and total depth of existing well.
- C. The existing casing type, outside and inside diameter and casing depth. Also record the casing height above existing grade.
- D. Pump test and recovery data containing all the information required by Part 3-2.

Upon completion of the testing, the Contractor shall sign the test records, deliver all records to the Contracting Officer, and submit such copies as are required by the State to the State of Colorado. Test records submitted shall include completed affidavit forms.

1-4 REFERENCE STANDARD: AWWA A100-84, Standard for Water Wells.

PART 2: MATERIALS AND EQUIPMENT

2-1 WATER: Water used for testing purposes such as logging casing depth shall be potable and comply with State requirements for drinking water quality. Water shall not be taken from surface water sources. Potable water is not available within the park.

2-2 TEST PUMP AND EQUIPMENT: The Contractor shall furnish, and operate pumping equipment as necessary to provide pump test data required under Paragraph 3-2, this section. Equipment shall be capable of maintaining any constant discharge rate less than or equal to the maximum test rate specified in Paragraph 3-2.

The pumping unit shall be complete with prime mover of ample power, controls, and appurtenances and shall be capable of being operated without interruption for a period of 24 hours. Contractor shall furnish all necessary discharge piping for the pumping unit which shall be of sufficient size and length to conduct the water being pumped to the point of final discharge as directed by the Contracting Officer. Contractor shall also furnish, install and operate equipment of approved size and type for measuring the flow of water, such equipment to be a weir box, orifice or water meter. Drawdown measurement shall be by electric sounder. A 5/8" plastic pipe shall be attached to the well pump intake to accommodate the electric sounder. The Contracting Officer shall approve the measurement devices and device installation prior to use for any test operation.

2-3 DEVELOPMENT EQUIPMENT: Part 3-2C.

PART 3: EXECUTION

3-1 GENERAL:

A. PROTECTING WATER SUPPLY: The Contractor shall take all necessary precautions during the Contractor's operation period to prevent contaminated water, gasoline, oil, etc., from entering the well either through the well opening or by seepage through the ground surface. During the progress of the work, the Contractor shall protect the well in such a manner as to effectively prevent tampering with the well or the entrance of foreign matter into it.

B. Prior to the pump test the well shall be cleaned out by using a 4 to 6 inch trash pump and/or bailing methods, then developed by the contractor using appropriate development methods for the condition of the well.

C. Due to the soft ground conditions at the well location the contractor shall be required to place planking on the ground if any rutting occurs from the contractor's vehicles.

3-2 PUMP TEST:

A. INITIAL MEASUREMENTS: Prior to commencing the pump test, the Contractor shall accurately determine the depth to the static water level and the depth of the well.

B. PUMP SETTING: Pump shall be set no more than 10 feet from the bottom of the well to allow drawdown measurements over the maximum possible range without changing the pump setting. Initial pump setting shall be recorded

C. **DEVELOPMENT:** The Contractor shall furnish all necessary pumps, compressors, plungers, bailers, or other needed equipment and shall develop the well by such approved methods as shall be necessary to give the maximum yield of water per foot of drawdown. The Contractor shall obtain the Contracting Officer's approval of the specific method of development to be used prior to beginning development. Development may be accomplished by simultaneous high-velocity horizontal jetting and pumping, surging and bailing or injection of compressed air. The development shall continue until the Contracting Officer decides further development is unnecessary.

D. The well shall be pump tested at a constant discharge rate not to exceed 45 gpm. If the drawdown level cannot be stabilized above the pump intake at the required maximum rate of discharge, the discharge rate shall be reduced until the drawdown level stabilizes no more than 10 feet above the pump intake. Maintain discharge within 10 percent of the required rate of the duration of each discharge increment.

Measurement of pumping rate and water level shall be made at the following intervals during the pump test: Every 1 minute for the first 10 minutes of the test, every 2 minutes for the next 10 minutes, every 5 minutes for the next 40 minutes, every 15 minutes for the next hour, every 30 minutes for the next 3 hours, and hourly for the remainder of the pumping period. Recovery water-level measurements shall be made with the same frequency until the well recovers to within five feet of the original static level or the Contracting Officer terminates the test.

3-3 **ABORTED TEST:** Whenever continuous pumping at a uniform rate has been specified, failure of pump operation for a period greater than one percent of the elapsed pumping time shall require suspension of the test until the water level in the pumped well has recovered to its original level. For the purposes of this section, recovery shall be considered "complete" after the well has been allowed to rest for a period at least equal to the elapsed pumping time of the aborted test -- except that if any three successive water level measurements spaced at least 20 minutes apart show no further rise in the water level in the pumped well, the test may be resumed immediately. The Contracting Officer shall be the sole judge as to whether this latter condition exists. No payment will be made for pump operating time which terminates in an aborted or incomplete drawdown test.

3-4 **LOCATION OF DISCHARGE:** Discharged water shall be conducted from the pump to the nearest surface-water body, storm sewer, or ditch as approved by Contracting officer or at least a distance of 100 feet through approved piping to prevent recirculation of discharged water into the aquifer being tested. Contractor shall take necessary precautions to insure that no damage be flooding or erosion is caused to the chosen drainage structure or disposal site.

PART 4: MEASUREMENT AND PAYMENT

4-1 PUMP TEST: Measurement will include all necessary materials and equipment required to perform a pump test and recovery test. Installation and removal of pump and test equipment is included under this bid item. Payment will be made at the contract unit price per hour of pump operating time.

4-2 DEVELOPMENT: Payment will be made at the contract unit price per hour of development. Payment for measuring and testing to determine existing casing and borehole dimensions and alignment will be included in the item for development.

4-3 WELL CLEANING: This bid item is to cover all costs related to cleaning out of the well with a trash pump, bailer and any other equipment required to achieve satisfactory results. Payment will be made at the contract unit price per hour of well cleaning.

END

STATE OF COLORADO)
) ss:
COUNTY OF _____)

I, _____, of _____,
on _____, 1990, conducted a pump test on the Singer Well
located in Florissant Fossil Beds National Monument, in the
SE1/4NE1/4 of Section 14, T13S, R71W, 6th P.M. The maximum
sustained pumping rate of the well after _____
was _____ gallons per minute.

Signature

Subscribed and sworn to before me this ____ day of _____, 1990.
Witness my hand and official seal.

Notary Public
Address:

My commission expires:

Form DI-1
(Rev. April 1985)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
REQUISITION**

Page _____ of _____

To Procurement, FLFO	Bureau/Office NPS	Requisition No. M092-177
		Date 5/1/90
Appropriation/Allotment No. 2001-4178-402 (2600)		Charge shipping costs to
Vendor Rocky Mountain Pump & Drilling P.O. Box 287 Florissant, CO 80816 Bill Dietrich 748-3318		Deliver to Superintendent Florissant Fossil Beds NM PO Box 185, Florissant, CO 80816

ITEM OR FORM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1.	Cleaning of trash in Singer Well	XXXXXX	Hr.	\$65.00	\$260.00
2.	Water Well Development in preparation of Pump Test,	4	Hr.	122.00	244.00
3.	Water Well Pump Test to include the Signing of Affidavit. (Attached) Specs attached	4	Hr.	115.50	462.00
					\$966.00
Note: These hours are estimated. Because of the uncertainty of this project and what is required, the hours were estimated high. If difficulty is found during the pumping, the hours might be low. The Contracting Officer needs authority to adjust the final payment based on what the Contracting Officer Representative and Contractor determines to be necessary. Justification: The Water Court Judge in Fort Collins asked the NPS Water Resources Division to conduct a pump test on the Singer Well (NPS #3) to determine if the well ever had the capability of pumping what the water rights indicate it pumped. This pump test and affidavit is necessary to obtain water rights for the Singer Well in the name of the NPS. If so the water rights will be transferred to the new well being constructed by DSC in NE1/4, SW1/4, Sect 23					
To Be Completed by Fiscal Authority Only					
FUND CERTIFICATION: Funds in the amounts shown are available and chargeable to the cost authorities shown above.					
Signature		Date		Approved by (Signature)	
				Date	
				5/4/90	
Title		Title			
		Finance Clerk			
Requisitioned by (Signature)		Date		Bureau Officer (Signature)	
Date				Date	
4/30/90					
Title		Title			
Civil Engineer					

Prepare in single space typing. Use double space between items. Fill out top of requisition completely, showing complete shipping instructions and appropriation if different from that to which requisition is chargeable.

CONSTRUCTION COST ESTIMATE

BY: G. Jacobson DATE PREPARED: 4-25-90 GENERAL CONTRACT
 PKG. NO. PROJECT: Florissant Fossil Beds National Monument SHEET 1 of 1
 WORK ITEM: Cleanout, Develop and Pump Test Sinker Well (NPS No. 3)

EQUIPMENT

QUAN.	DESCRIPTION	HOURS	RATE	AMOUNT
	Well Development including Labor, O.H. & Profit	2	55.00	110.00
	Pump Testing including Labor, O.H. & Profit	4	65.00	260.00
	6" Trash Pump, diesel: Rent per day = \$140.00	1 day	140.00	140.00
	Hourly operating cost = 3.85 (Means "90")	8	3.85	30.80
EQUIP SUBTOTAL				540.80

LABOR

QUAN.	TRADE	HOURS	RATE	AMOUNT
	Labor Costs for Mobilization & Well Cleaning:			
	\$34.78/Hour for Driller and Helper including Labor Burden	8	34.78	278.24
	+ 10% O.H. + 10% Profit			55.65
LABOR SUBTOTAL				333.89

MATERIALS

DESCRIPTION	UNIT	QUAN.	PRICE	AMOUNT
Plywood Planking 3/4" underlayment grade 8'x4 sheets (Means "90")	SHEET	192	0.45	86.40
→ + 10% O.H. + 10% Profit	SF			17.28
MATERIAL SUBTOTAL				103.68

EQUIPMENT SUBTOTAL 540.80
 LABOR SUBTOTAL 333.89
 SUBTOTAL COST 978.37

SUBTOTAL	
OVERHEAD @	%
PROFIT @	%
BOND @	%
TOTAL COST =	

PER UNIT =

\$ 978.37

REPORT OF TELEPHONE CONVERSATION

DATE 4/19/1990 TIME 10:36 AM/PM
PROJECT FLFO

NPS PERSON ON CALL Alice Johns ☐ I CALLED ☒ S/HE CALLED

PERSON Cory Anderson

ORGANIZATION DSC

ADDRESS _____

TELEPHONE NUMBER _____

DISCUSSION - FLFO account is in whole. Money yanked to fund more visible project.

- will have problems pump-testing well

- no other time it could be done?

- stupid that it has happened.

- Paul Zinnisak -- Project Manager -- under Team Manager, Ken Raithal

- can't only convenience -- 1 time per year.

- Delay -- how long?

- Not talking about big sums of money -

Development First -- 3 hours } stay under

Pump Test Next -- 4 hours } 1,000.00

→ People unwilling to further utilizing outside contracts.

→ DSC → do in-house?

don't have access to that equipment

Fork up the money? - Then DSC could put together contract.

- DSC would also be COR

→

REPORT OF TELEPHONE CONVERSATION

DATE 4-18-1990 TIME 1:45 AM/PM PM
PROJECT FLFO

NPS PERSON ON CALL Alice Johns ☒ I CALLED ☐ S/HE CALLED

PERSON Ray Liesman (Returned my call)

ORGANIZATION Water Referee WDI Greeley

ADDRESS _____

TELEPHONE NUMBER 356-9000

DISCUSSION w-8797-77 or 8796-77? Singer well in SENE Sec 19 T13S R71W.

I wanted further explanation of what verification was needed to look at
Flow rate. A pump test?

Ray said yes a pump test is needed. However, it could certainly
be performed by NPS personnel -- Use container -- known size -- Some
indications of Flow rate.

In (re) the acreage -- he was concerned that 60 acres seemed
excessive, He wanted to have that checked out by some one.
considering a Flow rate of 50 gpm

ACTION: 1) Tell Anderson, DSC a minimal pump test is required
2) Torch base w/ Supt, FLFO re acreage calculation

Docket Information

Number of Documents in Docket 64

Documents Dated from 4/16/1960 to 12/4/1990

Docket Compiled: 3/10/2011