



WATER-RIGHT DOCKET

Dinosaur National Monument

Docket No: 24

DEER LODGE PARK WELL #2

Preliminary Docket Information

00-00-0000: water right record deer lodge park campground

WATER RIGHT RECORD

Park: DINO

Docket Number:

Federal #24

IDENTIFICATION NO: DINO, W, 21,06,99,B,F,24,

DITCH/WATER SYSTEM: Deer Lodge Park Campground

SOURCE OF SUPPLY: Well #2

LOCATION: N17°26'30"W 112 ft. from the $\frac{1}{2}$ Cor. between Secs. 21 & 28,
T6N, R99W, 6th PM

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: 25382

Certificate Record Number:

Date of Priority: September 21, 1965

Quantity of Water: 25 GPM

Purpose: Domestic

Irrigated Land Description:

SUMMARY OF STATUS: This is a federal water right.

Well drilled from October 27, 1965 through November 5, 1965.

This well was filed with the State of Colorado as a reserved water right
In the Matter of the Application for Water Rights of the United States of
America in the District Court in and for Water Division No. 6 W-85 & W-86

This water right formerly in Docket #6.

DOCKET INFORMATION SHEET

Docket Identity	D11401 W 121 106 99 B E 24
Region	ROCKY MOUNTAIN
Area	DINOSAUR NATIONAL MONUMENT
Site	DEER LODGE CAMPGROUND
State	COLORADO
County	MOEFAT
Docket	DEMO WATER RIGHT DOCKET 24
Location	T16N R99W M17.026' 30" W 11.2 FT FR 1/4 COR SEC 21 T16N
Acquired by	APPROPRIATION
Application	WTS W86
Permit	25382 SEPT 21 1965
Certificate	
Priority	
Reservation	OCT 4 1915
Status	ACTIVE FEDERAL
Source	GROUND WATER
Use	DOMESTIC
Quantity	25 GPM
Hydrologic Unit	14050002
Remarks	WELL WAS FILED AS A RESERVED WATER RIGHT IN WATER DIVISION 16

FORM 7 REV.
10-1-64

Index No. _____
 IDWD _____
 Use _____
 Registered _____

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

LOG AND HISTORY OF WELL
 PERMIT NO. 25382

(For State Engineer's Use)

WELL LOCATION

Driller Berwood L. Campbell Lic. No. 444
 Owner Dinosaur National Monument Moffat County
 Street _____ City Dinosaur, Colorado SE ¼ of SW ¼ of Sect. 21
 Tenant (Deerlodge Park) Twp. 6N, Rge. 99W, 6th PM
 Use of Water Semi-municipal, Fire protection, Public Campground

On or By _____ No. _____
 (description of site or land) Acres _____
 Date Started October 27, 19 65
 Date Completed November 5, 19 65
 Yield 46 GPM or _____ CFS

WELL DESCRIPTION:

Depth to Water 8 ft. Total Depth 77 ft.
 (measured from ground surface)
 Hole Diameter { in. 6 from 0 ft. to 77 ft.
 in. _____ from _____ ft. to _____ ft.
 in. _____ from _____ ft. to _____ ft.

TEST DATA:

How Tested Pump Pump or _____ Bailed
 Date Tested Nov. 5, 19 65 Length 33 hrs.
 Rate 46 GPM Drawn Down 32' from ground

PUMP DATA:

(Test pump, permanent pump to be installed later)
 Pump Type submersible Outlet Size 4 1/2 in.
 Driven by electric HP 3

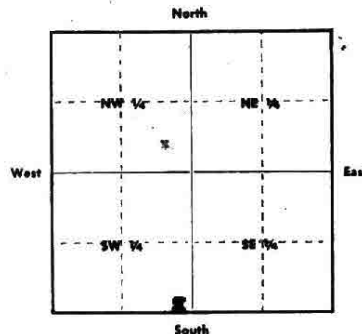
CASING RECORD:

Plain Casing

Size 6, Kind steel from 42' ft. to 34'6" ft.
 Size _____, Kind _____ from _____ ft. to _____ ft.
 Size _____, Kind _____ from _____ ft. to _____ ft.

Perforated Casing

Size none, Kind _____ from _____ ft. to _____ ft.
 Size _____, Kind _____ from _____ ft. to _____ ft.
 Size _____, Kind _____ from _____ ft. to _____ ft.



ABOVE DIAGRAM REPRESENTS ONE FULL SECTION. LOCATE WELL ACCURATELY IN SMALL SQUARE REPRESENTING 40 ACRES.

or

If the above is not applicable fill in:

No. _____ Street _____
 City or Town _____

or

Lot _____, Block _____
 _____ Subdivision
 (include filing or number)

TO BE MADE OUT IN QUADRUPLICATE

Original Blue (both sides) and Duplicate Green.
 Copy must be filed with the State Engineer within 30 days after well is completed. White copy is for the Owner and Yellow copy for the Driller. **SIGN BLUE COPY**

FOR WELL LOG USE REVERSE SIDE

Signed E. F. Campbell
By Uintah Basin Drilling Co.



PERMIT

NOTE: This permit is issued for the purposes indicated in the application.

Action	Employee	Route	Time
	Supd.		
	Asst. A.		
	For.		
	CP Kgr.		
	ICR DR		
	YA, DR.		
	CP Nat.		
	Asst. Nat.		
	Mgmt. Geo.		
	Sup. C&M		
	Safety		
	Constr.		
	WODC Eagr.		

STATE OF COLORADO

9-62/10M

9-62/10M Interior

APPLICATION FOR:

Dept. of/ ^{Interior} National Park Service

Applicant Dinosaur National Monument

P.O. Address Dinosaur, Colorado 81610

Quantity applied for 25 gpm or
AF Storage

Used for Domestic, Public
Campground Purposes

on/at Deerlodge Park, Dinosaur National
(legal description of land site)

Monument	
Total acreage irrigated and other rts.	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

ESTIMATED DATA OF WELL

Hole size: 6 in. to 75 ft.
in. to ft.

Casing Plain 6 in. from 0 to 35 ft.
in. from _____ to _____ ft.

Open or Perf. in. from to ft.
 in. from to ft.

PUMP _____ In. Hose _____ to _____ ft. _____
Outlet

DATA: Type Submersible . HP 2 Size 1-1/2

Use initiation date October 19 65.
(Use Supplemental pages for additional data)

Driller to furnish Log and History (Form E)
within 30 days after completion of well.

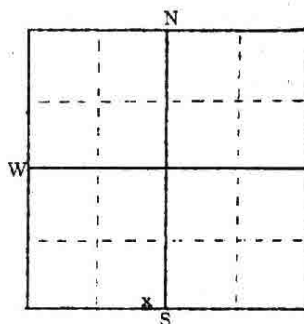
LOCATION OF WELL
County Moffat

SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of , Sect. 21, Twp. 6N

Rge. 99W, 6th P. M. OR

Street Address or Lot & Block No.

Town or Subdivision



E Locate
well in
40 acre
(small)
square
as near
as possible.
Large square
is one section.

\$25.00 fee required for uses other than Domestic or Livestock.

Applicant James E. Jones, Acting Superintendent
Agent or Contract not yet
Driller awarded - will notify No. _____

Address

THIS APPLICATION APPROVED

PERMIT NO. 25382

ISSUED:

DATE SEP 21 1955

NOTE — SATISFACTORY COMPLETION REQUIRED FOR APPROVAL OF APPLICATION

THE ABOVE APPLICATION, BEING A PART OF THIS PERMIT, IS APPROVED AS INDICATED.

SEAL

ACTING STATE ENGINEER

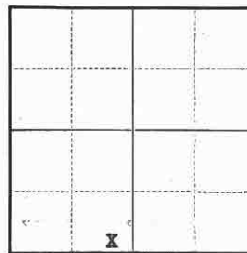
By

Authorized Agent

Supporting Hydro Data

9-255
(Jan. 1927)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

RECORD OF WELL



1. Location: State Colorado County Moffat
 Nearest P. O. Dinosaur, Colorado Direction from P. O. NE
 Distance from P. O. 5.54 miles; SW $\frac{1}{4}$ sec. 21, T. 6N, R. 99W
 If in city, give street and number _____
2. Owner: National Park Service Address Dinosaur, Colorado
 Driller: Uintah Basin Drilling Company Address Roosevelt, Utah
3. Situation: Is well on upland, in valley, or on hillside? Valley
4. Elevation of top of well: 5604.55 ft. above the level of sea level
(Above or below) (Sea, depot, lake, or stream)
5. Type of well: Drilled ; kind of drilling rig used cable-tool
(Dug, driven, bored, or drilled) (Solid tool, jetting, rotary, etc.)
6. Depth of well: 77 ft.; year in which well was finished November 5, 1965
 Does well enter rock? yes; if so, at what depth? 34 ft.; kind of rock sandstone
7. Diameter: At top 6 inches; at bottom 6 inches.
8. Principal water bed: Sandstone
(Gravel, sand, clay, or rock. If rock, state kind)
 Depth to principal water bed 35 ft.; thickness of bed 42 ft.
 If other water supplies were found, give depth to each Negligable
9. Casings: Kind Steel ; size 7" O.D. ; length 36.5 ft.; between depths of +2.0 and -34.5 ft.
 Kind _____ ; size _____ ; length _____ ft.; between depths of _____ and _____ ft.
 Kind _____ ; size _____ ; length _____ ft.; between depths of _____ and _____ ft.
- Packers (if any): Depth at which packers were used _____ ; kind _____
- Screen or Strainer: Was well finished with screen? no ; kind of screen _____ ;
 length of screen _____ ft.; diameter _____ inches; size of openings _____
10. Head: Does well at present overflow without pumping? no ; did it overflow when new? no ;
 if flowing, give pressure _____ lb. per sq. inch; or height water will rise in a pipe _____ ft. above surface;
 original pressure or head _____ ; if not flowing, give water level in well 8 ft. below surface.
11. Pump: Is the well pumped? no ; kind of pump _____ ;
 size or capacity of pump _____ ; kind of power _____
12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
 well has been pumped at 46 gallons per minute continuously for 24 hours;
 quantity of water ordinarily obtained from well _____ gallons per day.
13. Use: For what purpose is the water used? To be used for semi-municipal, fire protection
14. Quality of the water: _____ ; is there an analysis? underway
(Hard or soft, fresh or salty, etc.)
15. Cost of well, not including pump: \$2,350 Temperature of water 52 ° F.
 Name of person filling blank G. H. Gallagher
- Date 11/23/65 Address Dinosaur National Monument, Colorado

On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.

*To be reported later

6-9042

LOG OF WELL

[illegible]

FORM 10-23
(Rev. Oct. 61)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

DINOSAUR NATIONAL MONUMENT
(Park or Office)



FILE NUMBER
OR SUBJECT:

PLEASE RETURN THIS FILE PROMPTLY TO

COMPLETION REPORT
TEST WELL DRILLING - DEERLODGE PARK
DINOSAUR NATIONAL MONUMENT, COLORADO
NOVEMBER, 1965
CONTRACT NO. 14-10-0232-1092
UINTAH BASIN DRILLING COMPANY, ROOSEVELT, UTAH

WELL NO. 25382
(Activity)

IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge. Officials and employees will be held responsible for failure to observe these rules, which are necessary to protect the integrity of the official records.

FROM: _____
(Date)
TO: _____
(Date)

COMPLETION REPORT
TEST WELL DRILLING - DEERLODGE PARK
DINOSAUR NATIONAL MONUMENT, COLORADO

The purpose of this project was to investigate source of potable water for the proposed Deerlodge Park Development Area. One water well was drilled and test pumped and since the well yield was adequate for the proposed development the well was finished and retained for future use. State of Colorado Permit No. 25382 was assigned this well.

The project was done under Contract No. 14-10-0232-1092 by Uintah Basin Drilling Company, Roosevelt, Utah. Work began on October 27 and was completed on November 5, 1965. The project was funded from water rights funds, Account No. 2WR-66B. Final contract payment (copy attached) was in the amount of \$2,316.40, all of which is chargeable to this well. Since a usable well was constructed, water rights funds should be reimbursed by construction funds when the water system is constructed. Also included in the well cost were incidental administrative expenses, telephone calls, etc. which were charged to Account 2WR-66B.

The well is located N17°26'30"W, 112 feet from the ¼ Corner between S21/S28, T6N, R99W, 6th PM, Colorado, ground elevation 5604.55 and is approximately 40 feet south from the bank of the Yampa River. A cable-tool rig was used for drilling. Alluvial deposits of clay, sand, and boulders were encountered to a depth of 34 feet. Sandstone formation was encountered from the 34 feet depth to the bottom of the well at 77 feet depth. Water was encountered at 35 feet depth, and during pumping tests, a large flow of water could be observed entering the well at this depth. The well was cased to 34'-6" (driven as far as possible into the sandstone) with 7" O.D. steel casing. An additional 2'-2" of casing extends above ground. Pumping tests were made using a 3 HP submergible pump powered by a portable generator. Pumping tests indicated a safe well yield of 46 gpm at 34'-5" drawdown from the top of casing. Pumping test data is attached. Static water level is 10'-6" below the top of casing. The water cleared almost immediately after start of the pumping tests. Water temperature is 52° F. All observations indicate an excellent well. No difficulties were encountered during drilling operations.

Water samples were collected for chemical analysis by the State of Colorado Department of Public Health, which are underway. The State of Colorado is equipped to analyze for all chemical substances specified in the 1962 PHS Drinking Water Standards, at no cost to the government. Copies of the chemical analysis will be submitted when received.

An existing 4" water well, #12224, which was drilled to a depth of 75 feet in September, 1962, is located 30 feet west of this well. Attempts were made to pump test the 4" well, however the contractor had no pumping equipment which fit inside the 4" casing. Drawdown observations were made on the 4" well during pumping tests, and the 4" well could possibly be used as a secondary source of water supply should the need arise. The test data reported for well #12224 indicates only 2 gpm yield, however that test was conducted with a shallow well centrifugal pump. The well would probably yield an estimated 25 to 30 gpm by using a deep well pump.

Report by:



George H. Gallagher
Project Supervisor, WODC

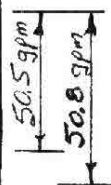
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SHEET 1 OF 1
MADE BY G. H. Gallagher
CHECKED BY _____
(INITIAL AND DATE)
GPO : 1965-O-781-378

COMPUTATION SHEET

Subject: MAXIMUM YIELD TEST ~ DEERLODGE PARK WELL # 25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FR. TOP CASING	REMARKS
11-3-65					
5:17 p	758627				
5:31	759262	635	45.4	31'	
					Flow rate increased
5:36	759500				
5:55	760460	960	50.5	60'	
					Flow rate increased
6:09	761215				Drowdown to pump
6:17	761632	417	52.1	66'	intake - max well yield
					Flow rate decreased
6:23 p	761937			60'	
6:26	762088	151	50.3	60'	
6:45	763054	966	50.8	60'	
7:00	763813	759	50.6	60'	
7:51	766385	2,572	50.4	60'	
12:00 m	779060	12,675	50.9	60'	
END OF TEST					



AVERAGE YIELD:

$$6:23 \text{ p } 11/3 \text{ to } 12:00 \text{ m } 1/3: 17,123 - 337 = 50.8 \text{ gpm}$$

Test conducted with 3 HP submergible pump powered by portable generator. Flow rate measured by 2" water meter. Pump intake set at 66'-6" below top of casing, top of casing 2'-2" above ground. Slight amount of turbidity at start of test, water clear at 7:00 p.m. Static water level at start of test 10'-1" below top of casing, returned to 10'-8" below top of casing 5 minutes after end of test.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SHEET 1 OF 2
MADE BY G. H. Gallagher
CHECKED BY _____
(INITIAL AND DATE)
GPO : 1965-O-701-579

COMPUTATION SHEET

Subject: DESIRED YIELD TEST ~ DEERLODGE PARK WELL # 25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FR. TOP CASING	REMARKS
11-4-65					
9:49a	782482			31'-6"	
9:50	782534	52	52		
9:51	782582	48	48		
9:52	782633	51	51		
9:53	782681	48	48		
9:54	782731	50	50		
9:55	782779	48	48		
10:00	783025	246	49.2		
10:07	783365	340	48.6		
10:10	783511	146	48.7		
10:20	783987	476	47.6	35'-0"	
10:30	784460	473	47.3	34'-6"	
11:30	787275	2815	46.9	34'-6"	
12:30 p	790080	2805	46.8	34'-6"	
1:30	792880	2820	46.7	34'-6"	
2:30	795715	2835	47.3	34'-5"	
3:30	798460	2745	45.8	34'-5"	
4:30	801240	2780	46.3	34'-5"	
5:30	804000	2760		34'-5"	
6:30	807115	3115		34'-5"	
7:30	809500	2385		34'-5"	
8:30	812250	2750		34'-5"	
9:30	814890	2640		34'-5"	
10:30	817530	2640		34'-5"	
11:30	820170	2640		34'-5"	
11-5-65				34'-5"	
12:30 a	823810	3640		34'-5"	
1:30	826450	2640		34'-5"	
2:30	828100	1650		34'-5"	
3:30	831205	3105		34'-5"	

↑
↓
AVE = 49.4 gpm
↓
AVE = 47.8 gpm

Readings taken
by Contractor
from 1:30 on.
Apparently did
not read meter
exactly on half
hour from 6:30
on, shift change,
different man.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

COMPUTATION SHEET

 SHEET 2 OF 2
 MADE BY G. H. Gellagher
 CHECKED BY _____
 (INITIAL AND DATE)
 GPO: 1965-O-781-370

Subject: DESIRED YIELD TEST ~ DEERLODGE PARK WELL # 25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FT. TOP CASING	REMARKS
4:30 a	834310	3,105		34'-5"	
5:30	837415	3,105		34'-5"	
6:30	840520	3,105		34'-5"	
7:30	843020	2,500		34'-5"	
8:30	845885	2,865		34'-5"	
9:30	848520	2,635		34'-5"	
10:14 a	850650	2,130		34'-5"	Reading Verified
END OF TEST					
10:19 a	-	-		10'-8"	Recovery

AVERAGE YIELD:

9:49 a 11/4 to 10:14 a 11/5 : $68,168 \div 1465 = 46.53 \text{ gpm}$ 12:30 p 11/4 to 10:14 a 11/5 : $60,570 \div 1304 = 46.45 \text{ gpm}$

Test conducted with 3 HP submersible pump powered by portable generator. A 2" water meter was used to measure flow rate. Static water level was 10'-1" below the top of casing prior to test and returned to 10'-6" below the top of casing 20 minutes after stop of test. Top of casing is 2'-2" above ground.

Drowdown was observed on an existing 4" well located 30' east of this well, as follows: (All readings below top of casing, concrete slab.)

Static W/L = 6'-0"

W/L @ 11:30 a 11/4 = 11'-3"

W/L @ 12:30 p 11/4 = 11'-6"

W/L @ 9:30 a 11/5 = 11'-10"

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPUTATION SHEET

SHEET 1 OF 1
MADE BY G. H. Gallagher
CHECKED BY _____
(INITIAL AND DATE)
GPO: 1965-O-761-578

Subject: MISC PUMPING TEST ~ DEERLODGE PARK WELL # 25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FR. TOP CASING	REMARKS
11-4-65					
8:16 a	779267				Drawdown at various rates of flow 
8:27	779438	171	15.5	15'-0"	
8:31	779522				
8:42	779804	282	25.6	19'-6"	
8:46	779916				
8:59	780375	459	35.3	24'-6"	
9:01	780450				
9:23	781327	877	39.9	28'-0"	
9:25	781412				
9:30	781638	226	45.2	31'-6"	
9:45	782304	666	44.4	31'-6"	
11-5-65					
10:58 a	851749			34'-5"	Maximum yield test following 24 hours continuous pumping. Drawdown to pump intake.
11:03 a	852030	281	56.2	66'	
11:10	852410	380	54.3	66'	

Test conducted with 3HP submergible pump powered by portable generator. Flow rate measured by 2" water meter. Well yield improved slightly (maximum yield) by continuous pumping for 24 hours maximum yield @ 66' drawdown at start of test was 52.1 gpm (See Maximum Yield data sheet)

Other Supporting Information

254
254

Dinosaur National Monument
Dinosaur, Colorado 81610

February 26, 1966

Mr. Tolson	
Mr. DeLoach	
Mr. Mohr	
Mr. Bishop	
Mr. Casper	
Mr. Callahan	
Mr. Conrad	
Mr. Felt	
Mr. Gale	
Mr. Rosen	
Mr. Sullivan	
Mr. Tavel	
Mr. Trotter	
Tele. Room	
Mr. Holmes	
Miss Gandy	

White, R. G. 3-3

3-3-66

Utah Basin Drilling Company
Roosevelt, Utah

Gentlemen:

In accordance with the provisions of the specifications which form part of your contract No. 14-ID-0232-1092 you were directed to suspend all work as of the close of business November 5, 1965 pending chemical analysis of the water from the Hardsing Park test well. These tests have been completed and the results analyzed by Curtis E. Richey of the U. S. Public Health Service. Mr. Richey advised the water meets Public Health Service Drinking Water Standards. Accordingly no further well drilling will be done and you are released from further responsibilities under contract No. 14-ID-0232-1092.

Sincerely yours,

(s) Daniel J. Tobin, Jr.

Daniel J. Tobin, Jr.
Superintendent and
Contracting Officer

Contractor - Orig.
PAHO - 2
EASO - 1
GOCB - 1
DIBO - 1

RECEIVED
FEB 28 1966

RECEIVED
FEB 28 1966

RECEIVED
FEB 28 1966

CO. MAILED TO	
BY	
DATE	

Stratton

Bressler

Bowen

February 18, 1966

L 54

Memorandum

To: Superintendent, Dinosaur
From: Chief Engineer, WODO
Subject: Fairlodge Park Test Well, Dinosaur

As you requested by your memorandum of February 8, 1966, we have had Mr. Richey of the U.S.P.S. review the chemical analysis of the water from the subject well.

Attached is a copy of his reply which is self-explanatory.

SEC 1

Donald L. Bressler

Attachment

cc:
Reg. Dir., Midwest Region, w/attachment
Contract Admin.

Informational to: J. Riddell, Heubner

RMStratton:nkm

"COPY"

FILE

IN REPLY REFER TO:

February 8, 1966

154

41R 14-10-0282-1072

Memorandum

From: Superintendent, Dinosaur

Subject: Chemical analysis - Deerlodge Park test well

Enclosed is a photo copy of the Colorado Department of Public Health report on subject well. Please have the U. S. Public Health Service representative in your office review the report and advise if the water meets requirements to be declared potable. If the water is satisfactory we will release Uintah Basin Drilling Company, Roosevelt, Utah, from any further work under contract #14-10-0232-1092.

Daniel J. Roblin, Jr.
Superintendent

In dupl. w/encl.

W O D C
FEB 11 1966

[illegible]

ANSWERED 2-17-66

[illegible]

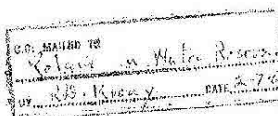
To: Superintendent, Dinosaurs

Subject: Contract No. 14-10-0232-1092, Chemical Analysis, Deer-
idge Park Test Wall - Missouri

If the chemical analysis has been received and the water meets Public Health Service Standards, we suggest a Letter of Acceptance and other final contract documents be issued. If the chemical analysis has not been received, you may want to make a second request from the Department of Health.



Page 100, Attachment (c)



Form 100-1 (Rev. 11/51/50)

Station: 1139

Location: Devil's Den Well #5387

Date and Time Sampled: Nov 1965

Collector: D. J. Fisher

Sample No.: 1139

Volume: 0.5 L

Temperature: 12.0

pH: 9.0

Total Alkalinity: 160 ppm

Total Hardness: 153 ppm

Calcium: 0.05

Magnesium: 0.05

Sulfate: 0.05

Chloride: 0.05

Nitrate: 0.05

Nitrite: 0.05

Ammonia: 0.05

Phosphate: 0.05

Silicate: 0.05

Iron: 0.05

Copper: 0.05

Zinc: 0.05

Lead: 0.05

Cadmium: 0.05

Mercury: 0.05

Barium: 0.05

Selenium: 0.05

Strontium: 0.05

Fluoride: 0.05

Boron: 0.05

Sodium: 0.05

Potassium: 0.05

Lithium: 0.05

Calcium: 0.05

Magnesium: 0.05

Sulfate: 0.05

Chloride: 0.05

Nitrate: 0.05

Nitrite: 0.05

Ammonia: 0.05

Phosphate: 0.05

Silicate: 0.05

Iron: 0.05

Copper: 0.05

Zinc: 0.05

Lead: 0.05

Cadmium: 0.05

Mercury: 0.05

Barium: 0.05

Selenium: 0.05

Strontium: 0.05

Fluoride: 0.05

Boron: 0.05

Sodium: 0.05

Potassium: 0.05

Lithium: 0.05

FORM 10-23
(Rev. Oct. 51)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

~~DEPARTMENT OF THE INTERIOR~~
(Park or Office)

FILE NUMBER
OR SUBJECT



PLEASE RETURN THIS FILE PROMPTLY TO

COMPLETION REPORT
TEST WELL DRILLING - DENVER LODGE PARK
DENVER NATIONAL MONUMENT, COLORADO
NOVEMBER, 1955
CONTRACT NO. 14-10-0212-1002
GENERAL RANCH DRILLING COMPANY, ROOSEVELT, UTAH
WELL NO. 25055 (activity)

IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge. Officials and employees will be held responsible for failure to observe these rules, which are necessary to protect the integrity of the official records.

FROM:

(Date)

TO:

(Date)

COMPLETION REPORT
TEST WELL DRILLING - DEERLODGE PARK
DINOSAUR NATIONAL MONUMENT, COLORADO

The purpose of this project was to investigate source of potable water for the proposed Deerlodge Park Development Area. One water well was drilled and test pumped and since the well yield was adequate for the proposed development the well was finished and retained for future use. State of Colorado Permit No. 25382 was assigned this well.

The project was done under Contract No. 14-10-0232-1092 by Uintah Basin Drilling Company, Roosevelt, Utah. Work began on October 27 and was completed on November 5, 1965. The project was funded from water rights funds, Account No. 2WR-66B. Final contract payment (copy attached) was in the amount of \$2,316.40, all of which is chargeable to this well. Since a usable well was constructed, water rights funds should be reimbursed by construction funds when the water system is constructed. Also included in the well cost were incidental administrative expenses, telephone calls, etc. which were charged to Account 2WR-66B.

The well is located N17°26'30"W, 112 feet from the $\frac{1}{2}$ Corner between S21/S28, T6N, R90W, 6th PM, Colorado, ground elevation 5604.55 and is approximately 40 feet south from the bank of the Yampa River. A cable-tool rig was used for drilling. Alluvial deposits of clay, sand, and boulders were encountered to a depth of 34 feet. Sandstone formation was encountered from the 34 feet depth to the bottom of the well at 77 feet depth. Water was encountered at 35 feet depth, and during pumping tests, a large flow of water could be observed entering the well at this depth. The well was cased to 34'-6" (driven as far as possible into the sandstone) with 7" O.D. steel casing. An additional 2'-2" of casing extends above ground. Pumping tests were made using a 3 HP submersible pump powered by a portable generator. Pumping tests indicated a safe well yield of 46 gpm at 34'-5" drawdown from the top of casing. Pumping test data is attached. Static water level is 10'-6" below the top of casing. The water cleared almost immediately after start of the pumping tests. Water temperature is 52° F. All observations indicate an excellent well. No difficulties were encountered during drilling operations.

Water samples were collected for chemical analysis by the State of Colorado Department of Public Health, which are underway. The State of Colorado is equipped to analyze for all chemical substances specified in the 1962 PHS Drinking Water Standards, at no cost to the government. Copies of the chemical analysis will be submitted when received.

An existing 4" water well, #12224, which was drilled to a depth of 75 feet in September, 1962, is located 30 feet west of this well. Attempts were made to pump test the 4" well, however the contractor had no pumping equipment which fit inside the 4" casing. Drawdown observations were made on the 4" well during pumping tests, and the 4" well could possibly be used as a secondary source of water supply should the need arise. The test data reported for well #12224 indicates only 2 gpm yield, however that test was conducted with a shallow well centrifugal pump. The well would probably yield an estimated 25 to 30 gpm by using a deep well pump.

Report by:



George R. Gallagher
Project Supervisor, WODC

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

COMPUTATION SHEET

SHEET 1 OF 1

MADE BY G.H. Gallagher

CHECKED BY (INITIAL AND DATE)

GPO: 1967 O-751-575

Subject: MAXIMUM YIELD TEST ~ DEERLEDGE PARK WELL # 25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FT. TO CASING	REMARKS
11-3-65					
5:17 p	758627				
5:31	759262	635	45.4	31'	
5:36	759500				Flow rate increased
5:55	760460	960	50.5	60'	
6:09	761215				Flow rate increased
6:17	761632	417	52.1	66'	Drawdown to pump intake - max well yield
6:23 p	761937			60'	Flow rate decreased
6:26	762088	151	50.3	60'	
6:45	763054	966	50.8	60'	
7:00	763813	759	50.6	60'	
7:51	766385	2,572	50.4	60'	
12:00 m	779060	12,675	50.9	60'	
END OF TEST					

AVERAGE YIELD:

$$6:23 \text{ p } 11/3 \text{ to } 12:00 \text{ m } 11/3: 17,123 \div 337 = 50.8 \text{ gpm}$$

Test conducted with 3 HP submersible pump powered by portable generator. Flow rate measured by 2" water meter. Pump intake set at 66'-6" below top of casing, top of casing 2'-2" above ground. Slight amount of turbidity at start of test water clear at 7:00 p.m. Static water level at start of test 10'-1" below top of casing, returned to 10'-8" below top of casing 5 minutes after end of test.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

COMPUTATION SHEET

 TEST OF 1
 MADE BY G. H. Gallagher
 CHECKED BY
 (Initials and Date)
 GPO: 1963 O-761-373

Subject: MISC. PUMPING TEST ~ DEER LODGE PARK WELL #25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FR. TOP CASING	REMARKS
11-4-65					
8:16 a	779267				Drowdown of various rates of flow
8:27	779438	171	15.5	15'-0"	
8:31	779522				
8:42	779804	282	25.6	19'-6"	
8:46	779916				
8:59	780375	459	35.3	24'-6"	
9:01	780450				
9:23	781327	877	39.9	28'-0"	
9:25	781412				
9:30	781638	226	45.2	31'-6"	
9:45	782304	666	44.4	31'-6"	
11-5-65					
10:58 a	851749			34'-5"	Maximum yield test following 24 hours continuous pumping. Drowdown to pump intake.
11:03 a	852030	281	56.2	66'	
11:10	852410	380	54.3	66'	

Test conducted with 3HP submergible pump powered by portable generator. Flow rate measured by 2" water meter.
 Well yield improved slightly (maximum yield) by continuous pumping for 24 hours, maximum yield @ 66'.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE

COMPUTATION SHEET

 SHEET 1 OF 2
 MADE BY G. H. Collogher
 CHECKED BY _____
 (INITIAL AND DATE)
 GPO: 1963-O-781-279

Subject: DESIRED YIELD TEST ~ DEERLODGE PARK WELL #25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN FR. TOP CASING	REMARKS
11-4-65					
9:49a	782482			31'-6"	
9:50	782534	52	52		
9:51	782582	48	48		
9:52	782633	51	51		
9:53	782681	48	48		
9:54	782731	50	50		
9:55	782779	48	48		
10:00	783025	246	49.2		
10:07	783365	340	48.6		
10:10	783511	146	48.7		
10:20	783987	476	47.6	35'-0"	
10:30	784460	473	47.3	34'-6"	
11:30	787275	2,815	46.9	34'-6"	
12:30 p	790080	2,805	46.8	34'-6"	
1:30	792880	2,820	46.7	34'-6"	
2:30	795715	2,835	47.3	34'-5"	
3:30	798460	2,745	45.8	34'-5"	
4:30	801240	2,780	46.3	34'-5"	
5:30	804000	2,760		34'-5"	
6:30	807115	3,115		34'-5"	
7:30	809500	2,385		34'-5"	
8:30	812250	2,750		34'-5"	
9:30	814890	2,640		34'-5"	
10:30	817530	2,640		34'-5"	
11:30	820170	2,640		34'-5"	
11-5-65				34'-5"	
12:30a	823810	3,640		34'-5"	
1:30	826450	2,640		34'-5"	
2:30	828100	1,650		34'-5"	

Readings taken
 by Contractor
 from 1:30 on.
 Apparently did
 not read meter
 exactly on half
 hour from 6:30
 on, shift change
 different man.

AVE = 49.4 gpm
 AVE = 47.8 gpm

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPUTATION SHEET

SHEET 2 OF 2
MADE BY G.H. Gallagher
CHECKED BY
(INITIAL AND DATE)
SPD 1250-O-751-173

Subject: DESIRED YIELD TEST, DEER LODGE PARK WELL #25382

TIME	METER READING	GALLONS	RATE GPM	DRAWDOWN Fr. Top Casing	REMARKS
4:30 a	834310	3105		34'-5"	
5:30	837415	3,105		34'-5"	
6:30	840520	3,105		34'-5"	
7:30	843020	2,500		34'-5"	
8:30	845885	2,865		34'-5"	
9:30	848520	2,635		34'-5"	
10:14 a	850650	2,130		34'-5"	Reading Verified
END OF TEST					
10:19 a	-	-		10'-8"	Recovery

AVERAGE YIELD:

9:49 a 11/4 to 10:14 a 11/5: $68,168 \div 1465 = 46.53 \text{ gpm}$ 12:30 p 11/4 to 10:14 a 11/5: $60,570 \div 1304 = 46.45 \text{ gpm}$

Test conducted with 3 HP submersible pump powered by portable generator. A 2" water meter was used to measure flow rate. Static water level was 10'-1" below the top of casing prior to test and returned to 10'-6" below the top of casing 20 minutes after stop of test. Top of casing is 2'-2" above ground.

Drowdown was observed on an existing 4" well located 30' east of this well, as follows: (All readings below top of casing, concrete slab.)

Static W/L = 6'-0" W/L @ 11:30 a 11/4 = 11'-3"

10M 10-64

Index No. _____
 IDWD _____
 Use _____
 Registered _____

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

LOG AND HISTORY OF WELL

(For State Engineer's Use)

PERMIT NO. 25382

WELL LOCATION

Driller Harold L. Campbell Lic. No. 444Owner Dinosaur National Monument

Moffat _____ County

Street _____ City Dinosaur, ColoradoSE 1/4 of E1/2 1/4 of Sect. 21Tenant (Pearlodge Park)Twp. 67, Rge. 90E, 66N PMUse of Water Semi-municipal, Fire protection, Public CampgroundOn or By _____ No. _____
 (description of site or land) Acres _____Date Started October 27, 19 65Date Completed November 5, 19 65Yield 45 GPM or _____ CFS

WELL DESCRIPTION:

Depth to Water 8 ft. Total Depth 77 ft.
 (measured from ground surface)

Hole Diameter	{	in. <u>6</u> from <u>0</u> ft. to <u>77</u> ft.
		in. _____ from _____ ft. to _____ ft.
		in. _____ from _____ ft. to _____ ft.

TEST DATA:

How Tested Pump Pump or _____ BailedDate Tested Nov. 5, 19 65 Length 33 hrs.Rate 45 GPM Drawn Down 32' from _____ ground

PUMP DATA:

(Test pump, permanent pump to be installed later)

Pump Type submersible Outlet Size 2 in.Driven by electric HP 3

CASING RECORD:

Plain Casing

Size 6 Kind steel from 42' ft. to 34'6" ft.

Size _____ Kind _____ from _____ ft. to _____ ft.

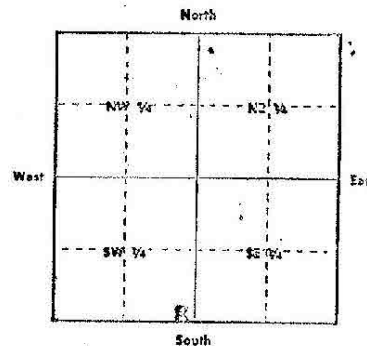
Size _____ Kind _____ from _____ ft. to _____ ft.

Perforated Casing

Size 8023 Kind _____ from _____ ft. to _____ ft.

Size _____ Kind _____ from _____ ft. to _____ ft.

Size _____ Kind _____ from _____ ft. to _____ ft.



ABOVE DIAGRAM REPRESENTS ONE FULL SECTION. LOCATE WELL ACCURATELY IN SMALL SQUARE REPRESENTING 40 ACRES.

If the above is not applicable fill in:

No. _____ Street _____

City or Town _____

or

Lot _____, Block _____

Subdivision _____
 (include filing or number)

TO BE MADE OUT IN QUADRUPLICATE:

Original Blue (both sides) and Duplicate Green Copy must be filed with the State Engineer within 30 days after well is completed. White copy is for the Owner and Yellow copy for the Driller. **SIGN BLUE COPY**

How Drilled—Cable-tool

[illegible]

- (If more space is required use additional sheet)

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed

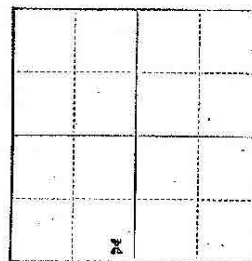
By

Winkah Basin Drilling Co.

9-255
(Rev. 10-22)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

RECORD OF WELL



Locate well on plat of section.

1. Location: State Colorado County Moffat
 Nearest P. O. Dinosaur, Colorado Direction from P. O. NE
 Distance from P. O. 54 miles; SW $\frac{1}{4}$ sec. 21, T. 6N, R. 99W
 If in city, give street and number _____
2. Owner: National Park Service Address Dinosaur, Colorado
 Driller: Utah Basin Drilling Company Address Roosevelt, Utah
3. Situation: Is well on upland, in valley, or on hillside? Valley
4. Elevation of top of well: 5604.55 ft. above the level of sea level
(Above or below) (Sea, depot, lake, or stream)
5. Type of well: Drilled; kind of drilling rig used cable-tool
(Dug, driven, bored, or drilled) (Solid tool, jetting, rotary, etc.)
6. Depth of well: 77 ft.; year in which well was finished November 3, 1965
 Does well enter rock? yes; if so, at what depth? 34 ft.; kind of rock sandstone
7. Diameter: At top 6 inches; at bottom 6 inches.
8. Principal water bed: Sandstone
(Gravel, sand, clay, or rock. If rock, state kind)
 Depth to principal water bed 35 ft.; thickness of bed 42 ft.
 If other water supplies were found, give depth to each Negligible
9. Casings: Kind Steel; size 7" O.D.; length 36.5 ft.; between depths of +2.0 and -34.5 ft.
 Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
 Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
- Packers (if any): Depth at which packers were used _____; kind _____
- Screen or Strainer: Was well finished with screen? no; kind of screen _____;
 length of screen _____ ft.; diameter _____ inches; size of openings _____
10. Head: Does well at present overflow without pumping? no; did it overflow when new? no;
 if flowing, give pressure _____ lb. per sq. inch; or height water will rise in a pipe _____ ft. above surface;
 original pressure or head _____; if not flowing, give water level in well 8 ft. below surface.
11. Pump: Is the well pumped? no; kind of pump _____;
 size or capacity of pump _____; kind of power _____
12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
 well has been pumped at 45 gallons per minute continuously for 24 hours;
 quantity of water ordinarily obtained from well _____ gallons per day.
13. Use: For what purpose is the water used? To be used for semi-municipal, fire protection
14. Quality of the water: _____; is there an analysis? underway
(Has top of 25 fresh or salty, etc.)
15. Cost of well, not including pump: 4,370 Temperature of water 52 ° F.
- Name of person filling blank G. H. Callagher
- Date 11/23/65 Address Dinosaur National Monument, Colorado

U. S. GOVERNMENT PRINTING OFFICE 5-3612

Handwritten: L54 MWR (OL)

Handwritten: NOV 17 1965

Memorandum

To: Superintendent, Dinosaur
From: Hydraulic Engineer
Subject: Water Analysis of Deer Lodge Park Well

We note in our copy of your November 8, 1965 letter to the State of Colorado Department of Public Health the samples of water were collected from Deer Lodge Park Well No. 25382. We fail to find any reference to this number, whether it is an application number or a water sample number. When compiling a water right docket for each of our wells we assign appropriate docket numbers with regard to the number of the well in the particular area, and/or the use to which the supply is put.

Your reference requesting the water be analyzed for chemical substances in Paragraph 5.2 of the 1962 USPHS Drinking Water Standards, we presume would include the elements under Sections 5.21 and 5.22 which would constitute a complete water analysis which we will file in our water right dockets.

Handwritten: WAMott:fh:eb

William A. Mott
Hydraulic Engineer

WAMott:fh:eb

Form 10-174
(Rev. 9/60)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Dinosaur National Monument
Dinosaur, ColoradoCheck One:
Monthly Estimate ☒ X

(Park)

Final Estimate ☐

UNIT PRICE CONTRACT

ESTIMATE NO. One	FOR (Period) October 14, 1965 to November 5, 1965	DATE November 15, 1965
CONTRACT NO. 14-10-0232-1092	COMPLETION DATE November 27, 1965	EXTENDED DATE
CONTRACTOR Uintah Basin Drilling Company, Roosevelt, Utah		ORIGINAL CONTRACT \$2,673.00
PROJECT Test Well Drilling		CHANGE ORDERS* \$ 0.00
LOCATION Deerlodge Park, Dinosaur National Monument, Colorado		TOTAL CONTRACT \$2,673.00

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
<u>SCHEDULE I</u>					
1	L.S.	Moving equipment to and from project	100%	225.00	225.00
2	75	Lin. ft. Drilling of bore for 6" casing	75	11.00	825.00
3	75	Lin ft. 6" steel casing	36.5	3.60	131.40
4	25	Lin. Ft. Perforating 6" casing	0	3.00	.00
5	20	Hours, Development & experimental work	6	15.00	90.00
6	1	Each, furnish and set test pump	1	400.00	400.00
7	20	Hours, Test pumping of well	33	15.00	495.00
8	2	Days, standby of equipment and crew	0	64.00	.00
9	L.S.	Reaming and grouting upper 10 ft. of well	100%	150.00	150.00
10	75	Lin. Ft., Placing and removing 6" casing	0	3.00	.00
11	75	Lin Ft., Plugging abandoned bore	0	00.50	.00
TOTAL SCHEDULE I (Items 1 through 11)					2,316.40

RECOMMENDED (Project Supervisor)

George H. Gallagher, Project Supervisor

APPROVED (Contracting Officer)

Daniel J. Goff, Jr., Superintendent

DATE

11-15-65

SUMMARY

TOTAL TO DATE	\$ 2,316.40
LESS RETAINED AMOUNT	.00
NET	2,316.40
LESS PREVIOUS PAYMENTS	.00
LESS LIQUIDATED DAMAGES	.00
DUE THIS ESTIMATE	2,316.40
% COMPLETED TO DATE:	100%

Form 10-194
(Rev. 9/60)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Dinosaur National Monument
Dinosaur, Colorado

Check One:

Monthly
Estimate

(Pack)

UNIT PRICE CONTRACT

Final
Estimate

ESTIMATE NO. One		FOR (Period) October 14, 1965 to November 5, 1965		DATE November 15, 1965	
CONTRACT NO. 14-10-0232-1092		COMPLETION DATE November 27, 1965		EXTENDED DATE	
CONTRACTOR Unish Basin Drilling Company, Roosevelt, Utah				ORIGINAL CONTRACT \$2,673.00	
PROJECT Test Well Drilling				CHANGE ORDERS* \$ 0.00	
LOCATION Deerlodge Park, Dinosaur National Monument, Colorado				TOTAL CONTRACT \$2,673.00	

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11	75	Lin Ft., Plugging abandoned bore	0	60.50	.00
TOTAL SCHEDULE I (Items 1 through 11)					2,316.40

RECOMMENDED (Project Supervisor)

George H. Gallagher, Project Supervisor

APPROVED (Contracting Officer)

Daniel J. Smith, Jr., Superintendent

DATE

11-15-65

SUMMARY

TOTAL TO DATE	\$ 2,316.40
LESS RETAINED AMOUNT.....	.00
NET.....	2,316.40
LESS PREVIOUS PAYMENTS.....	.00
LESS LIQUIDATED DAMAGES.....	.00
DUE THIS ESTIMATE.....	2,316.40
% COMPLETED TO DATE:	100%

*Show Breakdown on Reversion

(See Diagram for Description)

254 Dime

Dinosaur National Monument
Dinosaur, Colorado 81610

November 3, 1965

State of Colorado
Department of Public Health
4210 East 11th Avenue
Denver 20, Colorado

ATTENTION: Mr. Bill Dunn

Re: Deerlodge Park Well #25382

Dear Mr. Dunn:

In accordance with Mr. George Gallagher's telephone conversation with you today, we are sending, under separate cover, 4 - one liter and 1 - one gallon containers of water for chemical analysis. The water samples were collected from the Deerlodge Park Well, # 25382, which was drilled October 29, 1965.

Please analyze the water for chemical substances as specified in Paragraph 3.2 of the 1962 FHS Drinking Water Standards for potable water. We would appreciate your report at the earliest possible date. Thank you.

Sincerely yours,

Daniel J. Tobia, Jr.
Superintendent

P.S. Please return the 4 - one liter sample bottles with shipping containers to us as they are borrowed from the USGS, Salt Lake City.

cc:
Matt, Midwest Region

RECEIVED
NOV 10 1965
U.S. GEOLOGICAL SURVEY
SALT LAKE CITY

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER
GROUND WATER ADMINISTRATION

SEP 1965
RECEIVED
State NM

PERMIT

NOTE: This permit is issued for the purposes indicated in the application.

Form C Rev. -62/10M
Dept. of Interior
National Park Service
Applicant Dinosaur National Monument

STATE OF COLORADO
APPLICATION FOR: ☐ A PERMIT TO USE GROUND WATERS
☒ A PERMIT TO CONSTRUCT A WELL

LOCATION OF WELL
County Moffat
SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Sect. 21, Twp. 6N
Rge. 99W, 6th P.M. OR
Street Address or Lot & Block No.
Town or Subdivision

on/at Deer Lodge Park, Dinosaur National Monument
(legal description of land site)
Total acreage irrigated and other rts. _____
ESTIMATED DATA OF WELL
Hole size: 6 in. to 7 1/2 ft.
in. to _____ ft.
Casing Plain _____ in. from _____ to _____ ft.
in. from _____ to _____ ft.
Open or Perf. _____ in. from _____ to _____ ft.
in. from _____ to _____ ft.
PUMP _____ Outlet
DATA: Type Submersible HP 2 Size 1-1/2
Use initiation date October 19 65.
(Use Supplemental pages for additional data)

Driller to furnish Log and History (Form E) within 30 days after completion of well.

THIS APPLICATION APPROVED
PERMIT NO. 25382
ISSUED: SEP 21 1965 19 65
DATE

Applicant James E. Jones, Acting Superintendent
Agent or Contract not yet
Driller awarded - will notify No. _____
Address _____

\$25.00 fee required for uses other than Domestic or Livestock.

NOTE - SATISFACTORY COMPLETION REQUIRED FOR APPROVAL OF APPLICATION

THE ABOVE APPLICATION, BEING A PART OF THIS PERMIT, IS APPROVED AS INDICATED.

SEAL

By Ralph Quinn
ACTING STATE ENGINEER
Geo W. Colburn

Docket Information

Number of Documents in Docket 35

Documents Dated from 9/21/1965 to 2/26/1966

Docket Compiled: 6/29/2012