Y27-ORP

OCT 6 - 1965

Memorandum

To: Director, Bureau of Land Management

From: Director

Subject: Forage resource inventory, Organ Pipe Cactus

The National Park Service requests the assistance of the Bureau of Land Management in making a forage resource inventory of Organ Pipe Cactus National Monument. The following sets forth the provisions for conducting a forage resource inventory by the Bureau of Land Management of land within the Organ Pipe Cactus National Monument. The purpose of the inventory is to serve as a basis for management of cattle grazing in Organ Pipe Cactus National Monument without regard to reseeding the range, manipulation of vegetation or development of additional livestock-watering facilities. Organ Pipe Cactus National Monument was established to preserve outstanding forms of Sonoran Desert vegetation, native species of wildlife and to provide for their enjoyment by the public in an unimpaired state. Present domestic livestock grazing is a nonconforming use in that it is disturbing and damaging the natural features and is not compatible with visitor use objectives.

To accomplish the proposed forage inventory, the Agencies will provide the following:

The National Park Service agrees to:

1. Reimburse the Bureau of Land Management for cost (approximately $17,000) of the work performed. This will include salaries, equipment operations, per diem, cartographic work and overhead.

2. Provide rental apartment at the Monument headquarters for the five-man crew. The crew will pay rental on the apartment at the established rental rate.

3. Provide the available aerial photos, geological survey maps, and other base maps of the National Monument and pertinent grazing data.

4. To provide assistance to the field party through the Superintendent, Organ Pipe Cactus on road conditions, travel routes, grazing data and areas of the Monument to be excluded f from the inventory.

The Bureau of Land Management agrees to:

1. Provide the National Park Service with forage resource inventory which includes field maps showing vegetative types, field write-up sheets and summaries showing grazing capacities by vegetative type. This survey will be conducted in accordance with Bureau of Land Management Manual 4412.11A "Ocular Reconnaissance Method."

2. The Bureau of Land Management will prepare a suggested grazing management plan for the Monument.

3. This work will begin on or about November 1, 1965, and the above information will be furnished to the National Park Service by March 1, 1966.

4. Upon completion of the work the Bureau of Land Management will submit an SF-1081 to the National Park Service for reimbursement of expenses incurred.

This agreement entered into on OCT 8 1965.

(SGD) GEORGE B. HARTZOG, JR.

Director, National Park Service

Accepted

Charles H. Stoddard

Director, Bureau of Land Management

cc:
Assistant Secretary Cain, (Personal Attention)
Regional Director, Southwest (3)
ABF (2)
ORP (2)
LJUdy:STCarlson:JMM:vvb (9/23/65)
Rewritten: LJUdy:STC:JMM:gmo (9/24/65)

RECEIVED
STATE OFFICE
OCT 13 1965
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C. 20240

IN REPLY REFER TO:

4412.11 (711)

OCT 8 1965

Memorandum

To: SD's, Arizona, Colorado, New Mexico, Oregon, Utah

From: Director

Subject: Organ Pipe Cactus National Monument Forage Resource Inventory

In line with exchanging expertise between agencies within the Department, the National Park Service has requested the Bureau of Land Management to do a forage inventory on the above-mentioned monument.

As a result of previous conversations between you and Lowell Udy of the RPM Staff concerning the assignment of personnel from your State to assist in this inventory, the following personnel have been selected for this resource inventory work:

Mr. Bob Schultz of the Montrose District will be chief of party and his crew members will be Jerry Townsend, Las Cruces District; Rulon McRae, Safford District; Andy Parker, Lakeview District; and Blaine Lunceford, Price District.

The quality of the work and the finished product accomplished by this crew will have a direct effect on this Bureau's reputation as the agency having the expertise in the forage resource inventory field.

Please make arrangements to have the crew members report to the Arizona State Director on November 1. We anticipate the work can be completed before December 31, 1965.

Mr. Schultz as Chief of party, should plan the work so that the compilation, narrative and maps would be completed before he returns to Montrose.

The Arizona State Director will represent the Director's Office as field coordinator as well as provide the following:

1. Obtain one pickup and two jeeps from GSA Motor Pool.
2. Furnish office space and office equipment necessary for the survey crew to complete the compilation.
3. The Denver Service Center will advise the Arizona State Director of the preparation and submission of time and attendance reporting and any other administrative functions connected with the survey crew.

4. Two copies of the completed narrative, compilation, and map including Mylar tracing will be sent to the Resource Program Management Staff in Washington for review prior to releasing to the NPS.
5. If the Cartographic work cannot be done at the State Office, the DSC will give this work top priority to be finished by 1/28/66.

The Denver Service Center will prepare and forward to the crew members their Travel Authorization. A request for Advance of Travel Funds should be made to the Denver Service Center referring to the Travel Authorization. Per Diem will be $16 per day enroute to and from the National Monument, and $13 per day while on the job if commercial facilities are used.

The NPS has two apartments that will be available for rental by the survey crew. The rate is approximately $15 per day period for each apartment. The crew will have to furnish their groceries and bedding and per diem will be reduced to $8 per day under this arrangement.

The Denver Service Center Range Staff will provide technical assistance upon request.

If any of the crew is considering having his family accompany him, have him contact the Arizona State Director, Attention: Riley Foreman. He will furnish the details.

Charles H. Stoddard

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON, D.C. 20240

IN REPLY REFER TO:

OCT 6 1965

Y27-ORP

Memorandum

To: Director, Bureau of Land Management

From: Director

Subject: Forage resource inventory, Organ Pipe Cactus

The National Park Service requests the assistance of the Bureau of Land Management in making a forage resource inventory of Organ Pipe Cactus National Monument. The following sets forth the provisions for conducting a forage resource inventory by the Bureau of Land Management of land within the Organ Pipe Cactus National Monument. The purpose of the inventory is to serve as a basis for management of cattle grazing in Organ Pipe Cactus National Monument without regard to reseeding the range, manipulation of vegetation or development of additional livestock-watering facilities. Organ Pipe Cactus National Monument was established to preserve outstanding forms of Sonoran Desert vegetation, native species of wildlife and to provide for their enjoyment by the public in an unimpaired state. Present domestic livestock grazing is a nonconforming use in that it is disturbing and damaging the natural features and is not compatible with visitor use objectives.

To accomplish the proposed forage inventory, the Agencies will provide the following:

The National Park Service agrees to:

1. Reimburse the Bureau of Land Management for cost (approximately $17,000) of the work performed. This will include salaries, equipment operations, per diem, cartographic work and overhead.

2. Provide rental apartment at the Monument headquarters for the five-man crew. The crew will pay rental on the apartment at the established rental rate.

3. Provide the available aerial photos, geological survey maps, and other base maps of the National Monument and pertinent grazing data.

4. To provide assistance to the field party through the Superintendent, Organ Pipe Cactus on road conditions, travel routes, grazing data and areas of the Monument to be excluded from the inventory.

The Bureau of Land Management agrees to:

1. Provide the National Park Service with forage resource inventory which includes field maps showing vegetative types, field write-up sheets and summaries showing grazing capacities by vegetative type. This survey will be conducted in accordance with Bureau of Land Management Manual 4412.11A "Ocular Reconnaissance Method."

2. The Bureau of Land Management will prepare a suggested grazing management plan for the Monument.

3. This work will begin on or about November 1, 1965, and the above information will be furnished to the National Park Service by March 1, 1966.

4. Upon completion of the work the Bureau of Land Management will submit an SF-1081 to the National Park Service for reimbursement of expenses incurred.

This agreement entered into on OCT 8 1965.

Director, National Park Service

Accepted

Director, Bureau of Land Management

10/11/65

ORGAN PIPE CACTUS NATIONAL MONUMENT SURVEY

Bob Schultz	GS-11	$9,535	Montrose	$1,589.00
Jerry P. Townsend	GS-7	6,450	Las Cruces	1,075.00
Andy Parker	GS-9	7,710	Lakeview	1,285.00
Rulon McRae	GS-9	7,710	Safford	1,285.00
Blaine Lungeford	GS-9	7,710	Price	1,285.00
				$6,599.00
		8% Benefits		528.00
				$7,127.00

Mileage 10,000 miles

1 Pickup) GSA		250.00
2 Jeeps)		800.00
		$1,050.00

Per Diem

$16 en route $13 and $8 on the job	$3,900.00
Denver SC Range Staff	400.00
Travel to Monument and return	750.00
	$13,227.00
25% Overhead	3,307.00
TOTAL	$16,534.00

Lowell J. Ulay

OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

RECEIVED
STATE OFF
OCT 15 1965
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

4412.11 (711) (712a)

TO : Director 712a, Washington, D.C. (711)

DATE: October 14, 1965

FROM : Chief, Div. of Resource Stds. & Tech., Denver Service Center

SUBJECT: Trip Report - Organ Pipe Cactus National Monument - L. Christian Vosler

This report is based on the field trip to the Monument by members of the Arizona State Office Staff and L. Christian Vosler of the Denver Service Center during the week of September 27.

The Denver Service Center Range Staff will provide any technical assistance which the State Director requests.

It would be advisable to have Bob Schultz go into the area a week before the other crew members arrive to enable him to become acquainted with the area and to organize the plans and equipment which will be required for the survey.

There is a duplex with a newly decorated two bedroom unit and a one bedroom unit which will be available at approximately $15 per week. The Park Service would like to have these units available for their own use by January 1, 1966. There is also an office unit with a desk and drafting table which is available. There is trailer space available if any members have a camper or trailer house and would like to bring their families along.

The Arizona State Office will contact the Phoenix GSA motor pool to obtain two 4-wheel drive vehicles and two 2-wheel drive vehicles for the survey crew. These vehicles should be equipped with 5 gallon spare gas containers.

Horses will be required for a portion of the survey because the Park Service does not want the vehicles to be taken off the roads in the area.

There is one government owned horse at the Monument and several of the Monument personnel have horses which they indicated that they would be willing to rent.

A trailer or stock truck will have to be rented from GSA or U-Haul Rental Service for transportation of the horses.

Saddles and other riding tack will be required. It is possible that each individual has his own tack or could bring it from the District Offices. This should be checked out.

A plant list and proper use tables are being prepared by the Arizona State Office at the present time. This list and tables are based upon past records and the old interagency proper use factor tables.

There is a lack of information which can be used to substantiate a forage acre factor. There are figures used by Arizona Districts which have been applied to actual use pastures and appear to be proper for the area. We will have to rely on this information as there is little or no work being done by researchers on this type of vegetation under the present climatic conditions of the area. There is data available from the Santa Rita Experimental Range on similar vegetation type but it appears that there is a difference in soil types and a 2 inch differential in mean precipitation. Mr. Clark Martin of the Santa Rita Station indicated that there appeared to be significant difference in production of vegetation when there is a ½" variable in the average mean precipitation for the low desert ranges of Arizona.

There is a twenty year old exclosure located on the Papago Indian Reservation approximately 20 miles from the Monument. There has been no studies on the exclosure but it appears that the outside vegetation looks better than the vegetation in the exclosure.

The Luke-Williams Air Force Gunnery Range is located adjacent to the Monument. This area was withdrawn in about 1943 and has had only trespass use since that time. It may be possible to obtain some information which will be of value from the gunnery range. The Washington Office should contact the Defense Department to obtain permission to use the gunnery range if it is desirable for back-up data for the survey.

Aerial photos will have to be obtained from the Washington Office of USGS. The Menlo Park, California office has only partial photo coverage of the Monument. The USGS topographic maps indicate that there is a 1961 flight of the entire area.

The USGS Quadrangle (15 minute topographic) maps are Mt. Ajo, Kino Peak, Aqua Dulch Mts., Lukeville, Diaz Peak, and Quitobaquito Springs. This area is located between longitudinal lines 113°15' and 112°35' and, latitudinal lines 32°15' and 31°45'.

The Bureau will have to set up mapping priority for the completed survey maps if we are to do the cartographic work. The Advance Quadrangle sheets with the Photo Center control on them would be helpful, these sheets should be obtainable from USGS.

There are several determinations which should be made or decided before the survey is started:

1. How much game use is made by deer, desert big horn sheet, peccary, and other wildlife?

2. How much of the area will not be surveyed because of the steep rocky slope? These areas are unavailable to any type of domestic livestock grazing.

3. Will the Park Service notify the users or will this be a part of the BLM procedures?

4. A determination will be required for the weight which will be given to annual type vegetation. These annuals appear only periodically after rainfall and will probably not be present at the time of the survey.

5. I anticipate that the individual party members will be detailed to the Phoenix Office and be paid a per diem rate from that office.

6. A camp cook would be advisable but this would be up to the survey crew. The crew would be given more time to carry out the survey, and morale would be kept at a higher level. They would not have to come in out of the field tired and beat and then fix a meal and do up the dishes.

Information obtained from the survey and a close study of the area may provide needed information on what can be done with annual type range lands under Bureau control.

A complete pictorial documentation of the Monument should be made at the time of the survey. Including over-grazed areas, lightly grazed areas, water development, salting areas and any other pertinent data.

A camera should be available for each party member. Each individual could bring a camera from his own District, to eliminate the paper work involved in transferring of photography equipment from one office to another.

It is our understanding that this survey is to commence on or about November 1, 1965. This leaves very little time in which to obtain the necessary supplies and equipment for the survey.

/s/ Virgil T. Heath

cc: Arizona State Director
Bob Schultz, Montrose District

Attachment: Supply & Equipment List

Organ Pipe Cactus National Monument
Survey Equipment List

No.	Item
2	4-wheel drive vehicles
2	2-wheel drive vehicles
1	horse trailer or stock truck
6	Ocular Reconnaissance Forage Survey Handbooks
2 pads	Form 1278 Forage Survey Type Write-up
1 pad	Form 4-1701 Allotment Grazing Capacity Tabulation
1 pad	Form 4-1702 Allotment Grazing Capacity Summary
1 roll	Acetate (overlay paper) in stock (drafting - 1 roll) 1 do.
5 copies ea.	USGS Quadrangle Topographic Maps. (15' minute) Aqua Dulch Mtn., Diaz Peak, Kino Peak, Lukeville, Mount Ajo, Quitobaquito Springs USGS?
5	Snake bite kits
5	First Aid Kit (individual)
1	100 feet steel tape
1 bundle	2 foot wooden stakes for what ?
5	clip boards
2	rulers
1	scissors
2 bottle ea.	Indian ink - red, blue, green, black
4	#00 rapidograph pens
4	#0 " "
4	#1 " "
1 doz.	#00 rapidograph pen points
1 doz.	#0 " " "
1 doz.	#1 " " "

No.	Item
5	6 inch scale ✓ 1430 P (KE)
5	triangles (assorted sizes) ✓ @ 6" - 2 8" - 1 12"
5 rolls	color Kodachrome x 35 mm
10 rolls	color 120
10 rolls	Black & white 120
1 doz. ea.	Marking pencils (Venus blue print) - green, blue, black, red ✓
5	stereoscopes Engineering
5	hand lens (plant identifications) (microscopic) ✓

RECEIVED
STATE OFFICE
OCT 29 1965
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

4412.11
712a

OCT 27 1965

Memorandum

To: Chief, RS&T, DSC

From: Assistant Director, Administration

Subject: Organ Pipe Cactus National Monument and W-25 Technical Committee

Your memorandum of October 14 concerning the report of the trip preliminary to the forage resource inventory of the National Monument is appreciated.

Your attention is directed to the memorandum of October 8 (copy enclosed) wherin the SD-Arizona is designated as field coordinator for this inventory. It is suggested that further technical assistance to the survey crew by the DSC Range Staff should be provided at the request of the Chief of Party through the Arizona State Director. We concur with your recommendation that the Chief of Party (Bob Schultz) should go into the area a week early to become familiar with the area and organize the procedures and equipment before other crew members arrive.

Attendance is approved for Chris Vosler at the W-25 Technical Committee meeting in Tucson, November 29 to December 1, 1965, as suggested in your memorandum of October 15. Enclosed are copies of documents resulting from the 1964 W-25 meeting. Please forward a report of the 1965 meeting (attention:712a).

J. B. Bevins

Enclosures 4

cc: DDRF 1 & 2
RPM
Bob Schultz, Montrose District
SD-Arizona

712a/FEKinsinger/mla/10-21-65

RPM
1120
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

November 4, 1965

Memorandum

To: Director

From: State Director, Arizona

Subject: Organ Pipe Cactus National Monument

Enclosed is the November issue of Arizona Highways. The article on the Organ Pipe Monument may be of interest to members of your staff who have been concerned with the Bureau range survey on the Monument.

Also of interest is a Weldon Heald article on the proposed Sonoran Desert National Park.

Fred J. Weiler

Enclosure

FAR:fac

Fax
9-10-74

Francis -

We are going to set up a meeting with the Wildlife man on the Cabeza Prieta Game Range to look over comparable Range. I don't know what date yet, but advise me if you want to go along.

Webb can use 4-5 hours helicopter time (2-3 hours in morning and 2 hours in late afternoon). Advise me of the details to get the helicopter and clear the use of such with somebody. This will be for wildlife observation and a general reconnassion of the area.

Can't Get NPS to give me an estimate of the annual vegetation

Bob

FAR gdh

RPM
4412.11
Organ Pipe

State Office
3022 Federal Building
Phoenix, Arizona 85025

November 15, 1965

Memorandum

To: Director, Denver Service Center

From: Acting State Director, Arizona

Subject: Organ Pipe Cactus National Monument - Range Survey

→ RS&T ??

We would appreciate having technical assistance from your RPM Staff in connection with the subject survey.

We plan on a meeting during the first week in December to discuss with the Party Chief progress to date, problems (if any), the grazing management plan, and mapping requirements. This would be a convenient time for DSC staff participation. Also, we understand that Vosler plans to be in Tucson the week beginning November 29. If so, we can arrange to schedule our meeting at the Monument on December 6 or other approximate date agreeable to you.

Glendon E. Collins

FAR:fac

Nov. 12, 1965

TO: Riley Forman
FROM: Bob Schultz
Subject: Technical Advice - OPCNM Survey

Chris Vosler, Denver Service Center, called me on the phone and said he was going to Tucson on the 29th of November, and would like to come over to the Monument to discuss the survey. He said he could be here the 6th of December. I said fine - come on over and I'll talke to you. Well, it seems he needs a letter from us asking him to come. I told him I would go thru you.

I suggest that since Vosler will be in Tucson anyway, that we invite him over. By this time I will be well along with the field work. I would like to have Francis, and you (if you can make it) be here also when Vosler [redacted] arrives.

The purpose of this meeting would be to exchange ideas on the survey, management problems and mapping requirements.

I don't know what Lowell Vaddy would say about all of this, but since Vosler is so close I don't think it would hurt anything. However, a representative from ASO should be here.

Bob Schultz

Larry - Interested ??
Pick?

November 16, 1965

TO: Francis Riordan
FROM: Bob Schultz
Subject: OPCNM range survey.

I have set up a meeting with Jack Garret of the F & W Service for Tues. November 23rd. Webb and I will arrive at Garret's Office at 8. am. in Ajo.

If you bring Powell along with you, I believe there will be enough room in Garrets' 4x4 and our 4x4 to carry all of us.

I am going over to the Papago Reservation [redacted] Wednesday (Nov 17th) and talk to the range manager. The Chief Ranger from the Monument will be along with me.

Hope to see you in Ajo

Bob

BLM

Organ Pipe Cactus National Monument
P.O. Box 38, Ajo, Arizona 85321

P3019 November 19, 1965

Mr. Henry Gray
Box 302
Ajo, Arizona

Dear Mr. Gray;

The Bureau of Land Management is conducting a forage survey for the National Park Service on the Organ Pipe Cactus National Monument.

It is the Bureau's policy to inform the range user of such a survey, which we have done orally. However, the Chief of Party of the survey crew would like to explain the procedures used in making the inventory. If you are interested in meeting with the Party Chief please advise this office so that a mutual date can be set, preferably before December 10, 1965.

Sincerely yours,

Duane N. Graf
Chief Ranger

c.c. Robert L Gray
Jack Gray

ARIZONA STATE OFFICE
ST. DIR. Copy
R.U.S.
ECON. SEE ME
R.P.M. 1 COMMENT
ENG. ACTION
ADM. REPLY
L&M.LO INFORM

RECEIVED
STATE OFFICE
NOV 26 1965
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

IN REPLY REFER TO:
4412.11 (711)

NOV 23 1965

Memorandum

To: SD-Arizona

From: Assistant Director - Resource Management

Subject: Management Plan - Organ Pipe Cactus National Monument

The resource survey narrative (4412.11A) and the Range Management Plan (4112.15B) should be a consolidated report providing information on the vegetative resource together with a suggested grazing management plan for the monument.

The objectives and limitations in the agreement of October 6, 1965 should be fully considered in preparing the management plan. Factors which limit grazing alternatives include: (1) Future grazing use should not be extended into areas not presently used, (2) additional livestock use facilitating projects will not be provided as a means of improving present use patterns, and (3) objectives of the monument are the preservation of the outstanding forms of Sonoran desert vegetation, and native species of wildlife.

The development of the management plan should be coordinated with the Superintendent of the monument.

Eugene V. Zumwalt

cc
Bob Schultz
11/29/65

11/30/65

OK PLR

TO: Francis Riordan
FROM: Bob Schultz
Subject - Management Plan - OPCNM

Received the Assistant Director memo on management plan. The memo refers to (4112.15B) of the manual. Could you run a copy of the section of the manual that gives the outline. I believe its only a few pages. Either mail it down to me or bring it with you December 6th

There will be two men from the Regional Hdqtrs of the NPS arriving Dec 6th at the OPCNM. The purpose of their trip will be to see how we are coming along. This will tie in very well with Vosler's and your trip down here.

Bob Schultz

GHL

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

4412.11 (711)

RECEIVED DEC 8 1965
STATE OFFICE

DEC 9 - 1965

BUR. OF LAND MGMT.
PHOENIX, ARIZONA

Memorandum

To: SD-Arizona

From: Assistant Director

Subject: Organ Pipe Cactus National Monument Forage Resource Inventory

Reply is made to your memorandum of November 2, 1965, concerning the preparation of maps for the above-mentioned resource inventory. We have discussed your suggestion with the National Park Service, and they are agreeable.

In our memorandum to you of October 8, we said that if you could not complete this job, the cartographic work would be done by the Denver Service Center.

The drafting work for the subject project is estimated to require the services of one draftsman for three weeks, which should be well within the capability of any of our various drafting organizations. If the chief of party thinks it necessary, we would like him to work with the draftmen to answer any questions.

Since there has been a realignment of Engineering and Cartographic positions in your State, we feel the work can be accomplished more expeditiously by the cartographic staff in the State Office.

Eugene V. Zumwalt

We were ahead of them on this

FOR

UNITED STATES GOVERNMENT

2-Way Memo

RECEIVED
STATE OFFICE
DEC 15 1965
BUR. OF LAND MGMT.
PHOENIX ARIZONA

RECEIVED
Bureau of Land Management
State Director
DEC 10 1965

Subject: Annual Leave - Bob Schultz

DATE OF MESSAGE
12-8-65
DATE OF REPLY

INSTRUCTIONS
Use routing symbols whenever possible.
SENDER:
Forward original and one copy. Conserve space.
RECEIVER:
Reply below the message, keep one copy, return one copy.

To: State Director, Colorado

5027—101

—FOLD— USE BRIEF, INFORMAL LANGUAGE —FOLD—

Bob Schultz of your Montrose office, presently Chief of Party on the Organ Pipe Cactus National Monument Range Survey, has requested annual leave in the period December 20 through January 2. The field work on the Monument will be finished by December 15 so there will be an interim period while maps are being developed in which Bob's services can be spared without delaying completion of the project. We are agreeable to granting his request. He will return to Phoenix to supervise and assist in compilation of survey data and write his report, conclusions and management plan.

Since Bob is only temporarily under direction of this office, we think it is best to have your concurrence in the matter of granting Christmas leave in this instance. Incidentally, Bob has done a nice job for us and it has been a pleasure working with him.

12-13-65
Request approved
E. D.

From: State Director, Arizona

Copy to Montrose DO

1. TO BE RETAINED BY ADDRESSEE

OPTIONAL FORM 27
OCTOBER 1962
GSA GEN. REG. NO. 27

RPM

State Office
3022 Federal Building
Phoenix, Arizona 85025

December 10, 1965

Memorandum

To: Robert Schultz, Chief of Party, Organ Pipe Cactus National Monument Survey

From: State Director

Subject: Overtime

Because of inclement weather during the past week, the following members of the Range Survey crew are authorized to work half day Sunday, December 12, 1965, in connection with the Organ Pipe Cactus National Monument Survey.

Robert Schultz
Jerry Townsend
Blaine Lunceford
Andy Parker

Ed Webb is authorized to work up to a full day on December 12.

Fred J. Weiler

cc: SD

RPM
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

December 14, 1965

Memorandum

To: State Director, New Mexico

From: State Director, Arizona

Subject: Organ Pipe Cactus National Monument Survey

Field work on the survey is completed and the crew disbanded.

Jerry Townsend is leaving for home today. Jerry has been a dedicated and capable member of the survey team, always giving his best effort, often, I am sure, under somewhat trying conditions.

Your cooperation in making his services available to us is sincerely appreciated.

Fred J. Weiler

cc: Las ~~Vegas~~ District

FAR:fac

RPM
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

December 14, 1965

Memorandum

To: State Director, Oregon

From: State Director, Arizona

Subject: Organ Pipe Cactus National Monument Survey

Field work on the survey is completed and the crew disbanded.

Andy Parker is leaving for home today. Andy has been a dedicated and capable member of the survey team, always giving his best effort, often, I am sure, under somewhat trying conditions.

Your cooperation in making his services available to us is sincerely appreciated.

Fred J. Weiler

cc: Lakeview District Office
Washington Office (711)

FAR:fac

RPM
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

December 14, 1965

Memorandum

To: State Director, Utah

From: State Director, Arizona

Subject: Organ Pipe Cactus National Monument Survey

Field work on the survey is completed and the crew disbanded.

Blaine Lunceford is leaving for home today. Blaine has been a dedicated and capable member of the survey team, always giving his best effort, often, I am sure, under somewhat trying conditions.

Your cooperation in making his services available to us is sincerely appreciated.

Fred J. Weil

cc: Price District Office

FAR:fac

ARIZONA STATE OFFICE
ST. DIR. ...
R.U.S. ...
ECON. ... SEE ME ...
R.P.M. ... COMMENT ...
ENG. ... ACTION ...
ADM. ... REPLY ...
L&M.LO ... INFORM ...

RECEIVED
OFFICE
JAN 10 1966
BUREAU OF LAND MGMT.
PHOENIX ARIZONA

OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Range Management Staff, Wash. D.C.

DATE: December 15, 1965
In reply refer to:
4112.14E2(D712a)

FROM : Range Study Specialist, DSC

SUBJECT: Organ Pipe Cactus National Monument Survey reviews

In response to the request from the Acting State Director, Arizona, dated November 15, 1965, for technical assistance from the DSC Range Staff. I spent several days, December 6-8, 1965, with Bob Schultz, Chief of Party for the survey. Francis Riordan and Larry Powell of the Arizona State Office, Bob Schultz, and myself had the opportunity to discuss some of the problems encountered with the survey and the management plan for the monument.

The major problem of the survey is: what consideration should be given to the annual vegetation in regards to grazing capacity of the range. Francis Riordan felt that an estimate of the average amount of forage produced by annual vegetation could be made by qualified individuals in the area, and that these figures could be incorporated into the survey write-up sheets. These figures would be a judgement factor based upon the best knowledge of the people in the BLM familiar with the Sonoran Desert type vegetation.

NO seasonal in narrative by Types

It was suggested by Larry Powell that we try to determine what the average grazing capacity allowed by the Phoenix District on their annual type ranges. These figures could be used for increasing the stocking numbers above what could be allowed based upon the range survey. He also suggested that a follow-up study be made to determine the amount of annual vegetation which is produced this year. Someone could clip the annuals between now and July 1, 1966. This would be back-up information for the survey. Unless the NPS gives us an increase in funds, we could not do a follow-up study.

I believe that, as technicians, the only figures that we can justify are those that are obtained from the present survey. We must realize that annual vegetation is an important part of the forage available on this range and also that it is highly variable and not consistent. The individual running livestock on the monument are operating on a year-around bases; therefore, we must base the grazing capacity on the perennial vegetation. We can state that if and when annual vegetation is produced the operators can put more stock on the range for that period of time when the annuals are there and then take the stock off or, the annual vegetation can be used to relieve the pressure on the perennial vegetation.

On December 2, 1965, I discussed with Dr. E. M. Schmutz of the Range Staff at the University of Arizona and Berry Freeman, Range Extension Specialist for Arizona, the vegetation type of the Organ Pipe National Monument. I asked if there was any information on the amount (weight) of annual forage produced in Southwestern Arizona after a rain storm. Dr. Schmutz stated that he did not know of any available information but that Senate Document 199 (Western Ranges), page 97, indicated that a stocking rate of about 3 or 4 animals per section per year would be the best on heavily used ranges in that area. Dr. Schmutz felt that because of the sporadic periods of rainfall annual vegetation should not be considered in setting a stocking rate for the type of range found on the monument.

He felt that the Santa Rita Station would provide a bases for establishing a forage acre requirement figure for the Organ Pipe Survey because they have known stocking rates for a given area on the station. Dr. Schmutz had the opinion that the 2 inch difference in rainfall between the station and the monument would be compensated for by the increased density found on the station.

I suggested to Bob Schultz that he have some of the crew members run a survey on one of the pastures at Santa Rita Station; and, if the data is applicable, use it for determining a forage acre requirement figure. I realize that the vegetation and precipitation are different, but I believe this is the best available information which can be obtained by the Bureau in this area.

I discussed with Bob the PUF (proper use factor) of the shrubs found in the area. Bob was concerned about the use of a lower PUF figure on shrubs when the manual (4412.11A) stated that up to 50 or 60 percent could be taken from some shrubs. I suggested that he leave the PUF at the lower rate; because, if we allowed 50 to 60 percent use in the shrubs, we would be over utilizing other types of vegetation. We must key on the perennial vegetation in order to preserve the Sonora Desert vegetation in a natural condition. (See Assistant Director's-Resource Management Memorandum, 11/23/65, 4412.11(711) to SD Arizona.)

I was asked to provide information as to how far livestock can travel to water or what is the service area of a water facility under proper management. We discussed that maybe 4 to 5 miles would be about proper in the desert area. However, the manual (4112.14B2) states that 2½ miles is the service area for any watering facility and that 5 miles should be the maximum distance between watering facilities.

A meeting was held at the monument with the following people in attendance:

NPS Personnel

Foy Young, Supervisor of the Monument
Duane Graf, Chief Ranger
Thomas Eba and Eslie H. Lampier, Staff Rangers from the Santa Fe Regional Office

BLM Personnel

L. Christian Vosler, DSC
Francis Riordan, ASO
Larry Powell, ASO
Bob Schultz, Chief of Party

We discussed the survey, the general range condition of the monument, and the purposed management plan. The Staff Rangers from Santa Fe were not aware that a management plan was to be developed.

Under the objectives and limitations in the agreement of October 6, 1965, and the memorandum of November 23, 1965, preparation of a management plan becomes extremely difficult. Bob Schultz proposed that the livestock could be managed by closing off water during certain periods of the year to allow resting of the range. The Park Supervisor stated that they (NPS) could not manage livestock by water control because it would concentrate the livestock in different areas and this would conflict the people use. Therefore, it appears that a sound range management plan cannot be developed but that the plan for the monument would be to bring the stocking rate down to the grazing capacity as determined by the BLM survey, and a strong enforcement policy as to the number of stock by the NPS. Cattle use areas can be changed by salting and the use of range riders to move livestock from area to area as it becomes overused.

A discussion was held between Francis Riordan, Bob Schultz and myself about the mapping requirement for the survey. The Range survey manual (4412.11A(5b)) states that compilation will be done from a 2 inch to the mile scale township plots. It was our opinion there was no need for this type of map and that the compilation could be completed from a 1 inch to the mile base map. Much of the monument is unsurveyed so a township plot would be of little value.

I was impressed with the technical ability of the Organ Pipe Range Survey crew. I am confident that an excellent job of surveying has been done. Bob Schultz and his crew should be commended for an excellent job.

He has kept the morale of the crew high even after 6 weeks away from home.

L. Christian Vosler

Chief, Range Management Staff, Wash. D.C.

December 15, 1965
In reply refer to:
4112.14B2(D712a)

Range Study Specialist, DSC

Organ Pipe Cactus National Monument Survey reviews

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OK FAR

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He has kept the morale of the crew high even after 6 weeks away from home.

L. Christian Vosler

LCVosler:njh 12/16/65

cc: SD Arizona
Bob Schultz, Arizona SO

RECEIVED
STATE OFFICE
JAN 13 1966
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

4412.11 (D-712a)
Organ Pipe

January 11, 1966

TO: Bob Schultz

FROM: Range Study Specialist

SUBJECT: Water service areas for Organ Pipe Cactus National Monument

With reference to the above, we have found several literature citations to substantiate our stand of 2-1/2 to 3 miles.

Stoddart & Smith -- Range Management (p. 392) recommends:

> "...cattle should not be forced to go more than 1/2 mile for water, though in more level areas this can be measurably increased. Even in flat country they should not be expected to travel more than 2-1/2 miles. This would require water holes 1 to 5 miles apart and one source might serve 1 to 20 sections of land, depending upon the topography..."

The BLM Manual 4412.14B2 (Number and Location of Waters) sets out the recommendations for service area of waters for livestock.

We believe these are enough citations to validate any stand which we take concerning the Monument survey. If we can give you any further help, feel free to call us.

cc: Arizona State Director

NATIONAL PARK SERVICE

Heine - 343-4214

For Release JANUARY 12, 1966

INTERIOR DEPARTMENT TO REDUCE GRAZING AT ORGAN PIPE CACTUS NATIONAL MONUMENT

Assistant Secretary of the Interior Stanley A. Cain has instructed the National Park Service to reduce by nearly one-half, by the end of the current grazing season, the number of cattle being grazed on Organ Pipe Cactus National Monument in Arizona.

The present grazing permit allows 1,050 head of cattle to be grazed by private permittees on the National Monument, year-long. Cain's order would reduce this to 550 animals by the end of the grazing season.

Action is necessary, Cain said, to reduce the damage being done to the monument's native vegetation by many years of grazing, aggravated by drought conditions in recent years.

Organ Pipe Cactus National Monument, established as a unit of the National Park System in 1937, contains nearly 331,000 acres--all in Federal ownership except slightly less than 2,200 acres. It is famed for specimens of the unique cactus for which it is named, together with other desert plants found nowhere else in the United States.

"There has been a significant deterioration of the environment, and the National Park Service faces a grave problem of restoring the land and plant community in this region," Cain said. "Some of this irreplaceable plant life is barely surviving and cannot cope with the added hazards of sustained grazing and trampling."

He directed the National Park Service to give close supervision to the grazing of cattle on the monument, to be sure the conditions of the present, revocable special use grazing permit are observed. Recovery of the fragile desert vegetation will be a slow process, Cain said. The present permit expires December 31, 1966.

x x x

file

Organ Pipe Cactus National Monument
P.O. Box 38, Ajo, Arizona 85321

L3019

January 15, 1966

Mr. Robert Louis Gray
P. O. Box 1112
Ajo, Arizona

Dear Mr. Gray:

As you are aware grazing permit No. 14-10-0333-859 expires December 31, 1966.

On the basis of findings by competent authorities on plant ecology we have been advised repeatedly of the deterioration of native plants in Organ Pipe Cactus National Monument as a result of the disruptive influence of intense cattle grazing for an extended time. The objectives which prompted establishment of this national monument are not being met, namely: the preservation of a representative sample of the Sonoran Desert of southwestern United States.

Accordingly, by decision of Assistant Secretary of the Interior Stanley A. Cain on January 12, 1966, the number of head of livestock grazing on the monument must be reduced to 550 by the end of the current year. This is in accordance with Special Condition No. 10 of the grazing permit. This letter is to give you timely notice of the change to enable you to take every advantage of favorable market opportunities this year to reduce the herd to the limits set by the Assistant Secretary of the Interior.

We will be interested in your plans to accomplish the reduction. When convenient for you we will be glad to meet with you concerning arrangements.

Sincerely yours,

(SGD) FOY L. YOUNG

Foy L. Young
Superintendent

In duplicate
cc:
Regional Director, Southwest Region
Director

(The above letter was delivered to Mr. Robert Gray by Park Ranger Taylor 1-15-66. FLY)

RECEIVED
ORGAN PIPE CACTUS N.M.
JAN 15 1966

SUPERINTENDENT		
ADMIN. ASSISTANT		
CHIEF RANGER		
PARK NATURALIST		
LABOR FOREMAN		
MAINTENANCE MAN		
SAFETY OFFICER		
FILES		

JAN 12 1966

L3019-OSP

Memorandum

To: Regional Director, Southwest Region

From: Assistant Director, Operations

Subject: Management of livestock grazing, Organ Pipe Cactus

On January 3, 1966, it was the decision of the Secretary of the Interior, in regard to grazing on the lands of Organ Pipe Cactus National Monument, that (1) the National Park Service must practice more intensive management of livestock grazing and insist upon full compliance with all special conditions of the revocable special use permit No. 14-10-0333-859; and (2) arrange with the permittee to accomplish the reduction of the preference from 1,050 head to 550 head by the end of this year.

To implement the Secretary's decision actions are contemplated as follows:

1. Issuance on January 14 of a press memorandum by Assistant Secretary Stanley A. Cain, according to the text enclosed.

2. Notification to the permittee according to the draft enclosed in advance of the press notice. A draft of the letter Superintendent Young is to send Mr. Gray is enclosed.

3. Development of an interim grazing management plan to assure that conditions of the permit are effective. Activation of intensified management practices may require, and we recommend, the assignment of a Park Ranger who is capable of supervising the grazing operations in the field and who can devote the time necessary to this supervision. Should this require an adjustment of personnel, equipment, and budget we are prepared to assist you and the area. We shall wish to have your nomination of the individual for this responsibility and your recommendations for effecting the assignment.

You will recall the range survey report and suggested management plan in preparation by the Bureau of Land Management is due on March 1, 1966. The findings and recommendations will have a bearing on the management of grazing; however, the press memorandum makes the objectives clear.

Due to the time factor a copy of this memorandum and enclosures are being sent via airmail to Superintendent Young so that he may notify the Greys of the decision. It is anticipated you will advise Mr. Young by telephone to issue the letter no later than January 14, provided you consider the draft is satisfactory.

/s/ Howard W. Baker

Enclosures

cc:
Superintendent, Organ Pipe Cactus, w/encl. (Airmail)

RPM

SD
4412.11

State Office
3022 Federal Building
Phoenix,Arizona 85025

January 19, 1966

Memorandum

To: Eugene V. Zumwalt, Assistant Director, Resource Management

From: State Director, Arizona

Subject: Grazing - Range Study, Organ Pipe Cactus National Monument

This will confirm my telephone call January 18 in regard to the grazing study which BLM conducted at the request of the National Park Service on the Organ Pipe Cactus National Monument.

Attached is a news clipping from the Phoenix Gazette of January 15 and copies of two letters to grazing permittee Gray from the Superintendent of the Monument. You will note that the newspaper clipping, which apparently stemmed from a Departmental release, carries the same date as the letter which was sent to Mr. Gray.

My office was visited by Attorney Elmer C. Coker who represents Mr. Gray. Mr. Coker was aware of the fact that a range survey was being conducted and that the results of the survey had not yet been compiled and a report submitted. He was quite upset over the fact that the grazing permit had been cut by 550 head before the survey had been completed. During the course of our conversation he indicated that he had already contacted Senator Hayden and that Senator Hayden likewise felt that the action was premature.

This is, of course, primarily a Park Service matter, but I thought you should be informed of the background in the event your office receives any inquiry from Senator Hayden. It probably would be well to advise the Secretary of the reaction.

Fred J. Weiler

Attachments

cc: RPM

UNITED STATES GOVERNMENT

2-Way Memo

Subject: Pictures

DATE OF MESSAGE
1-20-66
DATE OF REPLY

INSTRUCTIONS

Use routing symbols whenever possible.
SENDER:
Forward original and one copy. Conserve space.
RECEIVER:
Reply below the message, keep one copy, return one copy.

To:

Blaine Lunceford
Price District Office
Price, Utah

5027—101

—FOLD— USE BRIEF, INFORMAL LANGUAGE —FOLD—

Yes, we want the pictures as soon as you receive them. The Assistant Secretary recently ordered the Park Service to reduce the stocking rate on the Monument to 550 head. Of course, they did this without any knowledge of our range survey computations.

Webb and I are just beginning to compile the survey now.

From:

Bob Schultz
Arizona State Office
RPM
Phoenix

3. TO BE RETAINED BY ORIGINATOR

OPTIONAL FORM 27
OCTOBER 1962
GSA GEN. REG. NO. 27

RPM
4412.11
Organ Pipe

State Office
3022 Federal Building
Phoenix, Arizona 85025

February 1, 1966

Memorandum

To: Foy Young, Supervisor of the Monument, Organ Pipe Cactus National Monument, National Park Service

From: Bob Schultz, Chief of the Party, ORCNM

Subject: Patented Mining Claims

The Land Office records show 26 claims were patented, for a total of 516.105 acres. These claims were originally patented to the Colonial Copper Company in 1913. The deed that you furnished me only indicates 442.38 acres conveyed to the United States. Therefore, the remaining acres are still under patent somewhere.

The Land Office suggests that you check the County Recorder's Office so that you can trace down the four missing claims. You should indicate to the County Recorder that these claims are in the Growler Mining District.

As far as our range survey map goes, we will not show any patented land within this area.

RLS:fac

RPM
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

February 15, 1966

Mr. Foy Young
Superintendent
Organ Pipe Cactus National Monument
P.O. Box 38
Ajo, Arizona 85321

Dear Mr. Young:

Under separate cover we are transmitting extra field maps that were used during the range survey. These maps are no longer of any value to us; perhaps they may be of some value to your staff.

The report has just been finished and is being forwarded to the Bureau of Land Management in Washington for final review.

Again I wish to express my appreciation for the courtesy and cooperation shown me by you and members of your staff.

Sincerely,

Chief of Party, OPCNM

RLS:fac

RPM
4412.11
Your Ref: 4412.11 (711)

State Office
3022 Federal Building
Phoenix, Arizona 85025

February 15, 1966

Memorandum

To: Director

From: Acting State Director, Arizona

Subject: Organ Pipe Cactus National Monument Forage Resource Inventory

In accordance with your memorandum of October 8, 1965 we are submitting for review by the Resource Program Management Staff two copies of the Narrative Report and related material for the Organ Pipe Cactus National Monument range survey. The reports include two maps - the first (Appendix III) being the regular Forage Inventory map with type lines and related data. Because of the relationships of livestock water to management, a second map (Appendix IV), identifying stockwater and service areas was developed.

Included also and bound separately are the original type writeup sheets. The Mylar tracing is being sent separately in a mailing tube. A third copy of the complete report is being retained here, as are copies of the type writeup sheets. Also, we are retaining here, pending your advice as to final disposition, the following material:

1. Supplies purchased for the survey, i.e., rapidograph pens, inking supplies, hand lenses, etc.

2. Aerial photographs used in typing.

3. Negatives for pictures used in the report.

At a conference with Park Service officials held at the Monument (with Eba and Lampier of the NPS Regional Office attending), the Park Service people were emphatic in stating that they did not want a management plan that would concentrate livestock in any given range area, particularly along roads or highways. They preferred spreading livestock as thinly as possible. This position influenced Schultz in his recommended management plan.

I should tell you that we think the choice of Bob Schultz (as well as

other members of the party) was an excellent one. Bob is an outstanding technician and a good organizer. He worked enthusiastically and tirelessly to develop an accurate and comprehensive report. It was a pleasure to work with him.

RILEY E. FOREMAN

Enclosures
2 reports OPCNM

FAR:fac

NAME OF AGENCY

PRECEDENCE

ACTION:

INFO.:

TYPE OF MESSAGE

☐ SINGLE ☐ BOOK

☐ MULTI-ADDRESS

SECURITY CLASSIFICATION

ACCOUNTING CLASSIFICATION

THIS BLOCK FOR USE OF COMMUNICATIONS UNIT

STANDARD FORM 14 REV. MARCH 15, 1957
GSA REGULATION 2-IX-301.00
14-304

TELEGRAPHIC MESSAGE

OFFICIAL BUSINESS
U. S. GOVERNMENT

MESSAGE TO BE TRANSMITTED (Use double spacing and all capital letters)

THIS COL. FOR AGENCY USE

START MESSAGE ADDRESS HERE

FEBRUARY 25, 1966

FROM: EUGENE V ZUMWALT
ASSISTANT DIR RESOURCE MANAGEMENT
BUREAU OF LAND MANAGEMENT

TO: STATE DIRECTOR
BUREAU LAND MANAGEMENT
PHOENIX, ARIZONA

(4412.11) (711) REFERENCE IS MADE TO MR. FOREMANS TELEPHONE CONVERSATION WITH THIS OFFICE CONCERNING INQUIRIES REGARDING THE SURVEY OF THE ORGAN PIPE CACTUS NATIONAL MONUMENT FORAGE SURVEY.

THIS SURVEY WAS PREPARED UNDER AGREEMENT FOR THE NATIONAL PARK SERVICE FOR THEIR EXCLUSIVE USE. ALL REQUESTS FOR INFORMATION WILL BE REFERRED TO THE NATIONAL PARK SERVICE. DO NOT RELEASE ANY INFORMATION CONCERNING THIS SURVEY.

PLEASE FURNISH IMMEDIATELY WRITEUP SHEETS AND NARRATIVE USED TO DETERMINE FORAGE ACRE REQUIREMENT.

dy: Orig RPM
cc: SD

DO NOT TYPE MESSAGE BEYOND THIS LINE

PAGE NO. | NO. OF PAGES

NAME AND TITLE OF ORIGINATOR (Type) | ORIGINATOR'S TEL. NO. | DATE AND TIME PREPARED

SECURITY CLASSIFICATION

I certify that this message is official business, is not personal, and is in the interest of the Government.

(Signature)

* U.S. GOVERNMENT PRINTING OFFICE : 1964 O—724-475

FAR RPM
4412.11
Organ Pipe

mka

State Office
3022 Federal Building
Phoenix, Arizona 85025

February 25, 1966

AIR MAIL

Memorandum

To: Assistant Director, Resource Management

From: State Director, Arizona

Subject: Organ Pipe Cactus National Monument Survey

In accordance with Mr. Leavell's telephone request of February 25, enclosed are Xerox copies of supporting data, including survey type write-up (Form 4412-1) for Pasture 12B, Santa Rita Experiment Station, for forage acre determination, Organ Pipe Cactus National Monument Survey.

We believe the original Form 4412-1 may be filed with the other original write-up which you have. If so, the Santa Rita write-up should be the first sheet on the inside front cover of the "Six-Way" file.

Fred L. Weiler

Enclosures

FAR:fac

ARIZONA STATE OFFICE
ST. DIR. ✓
R.U.S. .....
ECON. ..... SEE ME.....
R.P.M. ✓ ..... COMMENT.....
ENG. ..... ACTION.....
ADM. ..... REPLY.....
L&M.LO ..... INFORM.....

RECEIVED
STATE OFFICE
MAR 7 - 1966
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

4412.11 (711)

MAR 4 1966

Memorandum

To: Director, National Park Service

From: Director, Bureau of Land Management

Subject: Forage Resource Inventory, Organ Pipe Cactus National Monument

As agreed by memo of October 8, 1965, the Bureau of Land Management is providing three copies of a report on a forage resource inventory of the Monument including field maps showing vegetative types, field writeup sheets, and summaries showing grazing capacities by vegetative type. The narrative includes a suggested grazing management plan for the Monument.

One copy is enclosed with this memo; one copy is being handed to Mr. H. L. Bill, NPS, and one copy remains in our Arizona State Office. The report at Phoenix will provide that office with a reference copy. Please advise the disposition of the aerial photos, picture negatives, and remaining materials.

The Mylar tracings of the vegetative type maps have not yet arrived. These will be provided when received. The forage requirement study writeup sheets have been received and are attached to the enclosed report.

The reimbursable account has been closed. An SF-1081 will be submitted shortly.

We are pleased to have been able to provide the forage inventory report of the Monument. Questions concerning the technical aspects may be directed to our Chief, Range Management Staff (712a).

John O. Crow

Acting Associate Director

cc:
SD-Arizona
Range Staff (712a)
FM
DDRF 1 & 2
RPM

711:WGLeavell:cr 2-28-66

RPM
4412.22

State Office
3022 Federal Building
Phoenix, Arizona 85025

March 4, 1966

Memorandum

To: Chief, Division of Resource Program Management, WO

From: Chief, Division of Resource Program Management, Arizona

Subject: Organ Pipe Cactus National Monument Survey

Enclosed is the original Forage Survey Type Write-Up, Form 4412-1, made by Chief of Party Schultz on the Santa Rita Experiment Station in developing the Forage Acre Requirement for the Monument survey. Only the one write-up was made.

We regret that this form was overlooked and not included in our original submission.

Enclosure

FAR:fac

NAME OF AGENCY

ACCOUNTING CLASSIFICATION

PRECEDENCE

ACTION:

INFO.:

TYPE OF MESSAGE

☐ SINGLE ☐ BOOK

☐ MULTI-ADDRESS

SECURITY CLASSIFICATION

R&R

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TELEGRAPHIC MESSAGE

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U. S. GOVERNMENT

MESSAGE TO BE TRANSMITTED (Use double spacing and all capital letters)

THIS COL. FOR AGENCY USE

PORT MESSAGE ADDRESS HERE

MARCH 4, 1966

FM FRED J. WEILER, STATE DIRECTOR

TO CHIEF, DIVISION OF FINANCIAL OPERATIONS, BUREAU OF LAND MANAGEMENT, U.S.D.I., (BLDG 50 FEDERAL CENTER) DENVER, COLORADO

ORGAN PIPE CACTUS NATIONAL MONUMENT SURVEY, PROJECT NUMBER 698, NOW COMPLETED AND NO FURTHER CHARGES WILL BE MADE. THE LAST OBLIGATION INCURRED HERE WAS TRAVEL VOUCHER (DOCUMENT 02-95-516) ISSUED FEBRUARY 17, 1966, PAYEE ROBERT L. SCHULTZ.

FARiordan:lc

cc: Confirmation to DSC
RPM
Adm

copy to William Leavell, Washington Office

DO NOT TYPE MESSAGE BEYOND THIS LINE

PAGE NO. | NO. OF PAGES

NAME AND TITLE OF ORIGINATOR *(Type)*

ORIGINATOR'S TEL. NO.

DATE AND TIME PREPARED

SECURITY CLASSIFICATION

I certify that this message is official business, is not personal, and is in the interest of the Government.

(Signature)

☆ U.S. GOVERNMENT PRINTING OFFICE : 1964 O—724-475

RPM 4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

March 14, 1968

Memorandum

To: Superintendent, Organ Pipe National Monument, Box 38, Ajo

From: State Director, Bureau of Land Management, Arizona

Subject: Organ Pipe Forage Resource Inventory

As requested by Mr. Carrico of your staff, a copy of BLM Manual 4112.14B.2 is attached.

Agriculture Handbook No. 162, authored by Hudson Reynolds may possibly be obtained from the Rocky Mountain Forest and Range Experiment Station, P.O. Box 5735, Tucson.

Aerial photos acquired for the survey are being mailed to you under separate cover. It occurs to me that our office copy of the report, complete with appendices and photo records, may be of some value to you, so I am mailing it also.

If I can be of further assistance, please call on me.

Fred J. Weiler

Attachment
BLM Man. p.4112.14B.2

FARiordan:fac

m 1541–3
1965)
ormerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FOREMAN

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name: Acting State Director Riley Foreman	FROM	Name: Under Secretary John Carver
	Office: Arizona State Office - BLM		Office: Secretary of the Interior
	Location: Phoenix, Arizona		Location: Washington, D. C.
	Telephone Number:		Telephone Number:

Purpose of Call:

Secretary Carver telephoned to advise that Senator Hayden had furnished attorney Elmer Coker a copy of the range survey report of the Organ Pipe National Monument and to request that we make all attachments, including pictures and maps, available to him. He stated that if Coker wished to pay for them that we furnish him with copies of the survey maps or pictures which are a part of the report.

Explanatory Remarks:

March 16, 1966 4:25 p.m.
(Date)

Riley E. Foreman
(Signature)

READING FILE

GPO 851-219

Park
7-16-66

June

1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name: Eugene Zumwalt	FROM	Name: Riley E. Foreman
	Office: Resource Development		Office: rpm ASO
	Location: Washington, D. C.		Location: Phoenix,Arizona.
	Telephone Number:		Telephone Number:

Purpose of Call:

Informed Mr. Zumwalt of Mr. Elmer Coker's cal and that Mr. Coker had indicated that a telegraph would be forthcoming from Secretary Carver or the Park Service authorizing us to furnish him (Mr. Coker) with records of the Organ Pipe Survey.

Informed Mr. Zumwalt we did not have the telegram and that we would not release any information until we received the telegram. Mr. Zumwalt informed me that he was not aware of this authorization.

Explanatory Remarks:

3/15/66
(Date)

S/ Riley E Foreman
(Signature)

2c

READING FILE

GPO 851-219

OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

4412.11
(D-712a)

RG
Wash
Hdqr

TO : Chief, Division of Resource
Standards and Technology
Denver Service Center

DATE: March 14, 1966

FROM : Robert L. Schultz, Montrose District

SUBJECT: Organ Pipe Cactus National Monument Range Survey

Attached is a copy of the report as per your request.

Included in the report that was transmitted to Washington is a pictorial review of the situation. At the present time, a copy of the pictorial review and negatives are filed in the Arizona State Office.

The results of the survey and report are not available for public information or inspection. Any information that will be released will be done by the National Park Service.

Robert L. Schultz

Attachment

cc: Arizona State Office
Division of RPM

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Organ Pipe Cactus National Monument
P.O. Box 38, Ajo, Arizona 85321

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT
MAR 19 1968
ST. DIR. .....
ASST. TO ST. DIR. .....
R.P.M. .....
L&M LO. .....
A.M. .....
ENG. .....
TRAINING .....
SAFETY .....
ACTION
SEE ME
REPLY

IN REPLY REFER TO:

L3019

March 18, 1968

Your reference
RPM 4412.11

Memorandum

To: State Director, Bureau of Land Management, Arizona

From: Superintendent, Organ Pipe Cactus NM

Subject: Assistance on Resources Management Matters

This is to tell you how much we appreciate the very generous assistance and material provided during and following Chief Ranger Carrico's visit to your office last week. Members of your staff were most helpful in taking time to discuss and offer suggestions on problems arising from our area management program and in furnishing copies of pertinent maps and literature developed by the Bureau of Land Management. We were especially pleased to receive your office copy of the Forage Resource Inventory Report complete with appendices and photographs which has not been available previously.

Thank you again for the courtesy and consideration shown by your office. We are enclosing the receipt (POD Form 3811) for the report and aerial photographs received last Friday.

Foy L. Young

Foy L. Young

Enclosure

Helicopter
Flights

Form 1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

	TO		FROM
Name	Wm. Leavell	Name	Francis A. Riordan
Office	~~WB~~ Resource Prog. Mgmt.	Office	ASO, RPM
Location	Washington, D. C.	Location	Phoenix
Telephone Number	6985	Telephone Number	

Purpose of Call:

To advise that we contemplated using a helicopter to complete Organ Pipe Cactus National Monument Range Survey. Will use aircraft presently under contract to BLM for cadastral surveys, the week beginning December 6, 1965, about 5 or 6 hours flying time plus 3 hours ferry time Mesa to Monument and return.

Leavell advised that memo was being issued on Washington interpretation of management plan. Discussed cooperation with National Park Service. I mentioned delay in decision on Lake Mead National Recreation area as not being helpful to cooperative relationship.

Explanatory Remarks:

November 24, 1965 (Date)

s/ Francis A. Riordan (Signature)

READING FILE

GPO 851-219

Form 1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name: Bill Johnson	FROM	Name: Francis A. Riordan
	Office: Contract & Procurement DSC		Office: ASO Div. of RPM
	Location: Denver, Colo.		Location: Phoenix
	Telephone Number:		Telephone Number:

Purpose of Call:

Roberts Helicopter Contract was approved and mailed out.

Explanatory Remarks:

12-7-65
(Date)

s/ Francis A. Riordan
(Signature)

READING FILE

GPO 851-219

Riordan

FAR

9400

State Office
3022 Federal Building
Phoenix, Arizona 85025

December 15, 1965

Memorandum

To: Chief, Division of Financial Operations, DSC

From: Acting Chief, Division of Engineering, ASO

Subject: Partial Payment Contract #14-11-0008-2135

Attached are Standard Form #1171, Forms 9400-8, and T/R #A4,545,812 for processing payment to Roberts Aircraft Company for helicopter rental during the period December 11 thru December 13, 1965.

The total flight time during this period amounts to 8 hours and 36 minutes, totaling $894.40.

This completes the helicopter contract rental.

Standard Form #1171 includes billing for cadastral surveys for period November 22 thru December 2, 1965.

J. D. Isaacs

Attachments

cc: C. Hanna, Admin. Assistant, ASO
F. Riordan, Range Conservationist, ASO

Mr. Riordan

Standard Form No. 1171a
Form prescribed by
Comptroller General, U. S.
May 1, 1955
General Regulations No. 123

PUBLIC VOUCHER FOR TRANSPORTATION OF PASSENGERS

D. O. Vou. No. _____

Bu. Vou. No. _____

PAID BY

BLM-DSC-BLDG. 50-Denver, Colorado 80225
U. S. _____
(Paying office as specified on The United States of America Transportation Request)

Carrier's Bill No.

THE UNITED STATES, Dr.,

To Roberts Aircraft Company

Address P.O. Box 1400, Mesa, Arizona, 85202

THE UNITED STATES OF AMERICA TRANSPORTATION REQUEST NO.	AMOUNT	
	TRANSPORTATION	ACCOMMODATIONS
A4,545,766 (Cadastral Surveys)	21:21 hrs. Period 11/22	$104.00/Hr. thru 12/2/65 $2,220.40
A4,545,812 (Organ Pipe Cactus Nat'l Monument)	8:36 hrs. Period 12/11	$104.00/Hr. thru 12/13/65 $ 894.40
Contract #14-11-0008-2135	Total $3,114.80	
Discount may be taken in accordance with the terms of the contract.		
TOTALS		
GRAND TOTAL CLAIMED		

December 15, 1965

ROBERTS AIRCRAFT COMPANY
W. Lyman Roberts
By MEMORANDUM

Differences: AMOUNT

Amount verified; correct for _____

(Signature or initials) _____

Paid by Check No. _____,
dated _____, 19_____,
for $_____ { on Treasurer of the United State in favor of payee named above.

ACCOUNTING CLASSIFICATION (Appropriation Symbol must be shown; other classification optional)

16—71505a—1 U. S. GOVERNMENT PRINTING OFFICE : 1955—O-344270

Form 1542–4
(November 1964)
(formerly 4–1132)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROUTING AND TRANSMITTAL SLIP

TO		ACTION	ROOM NO.
NAME	ORGANIZATION		
Riordan	RPM		

Indicate Action by Number

1. Necessary action
2. Approval
3. Signature
4. Prepare reply
5. Your comment and return
6. Note and surname
7. Note and return
8. Your information
9. See me
10.

From	Date	Room

Office	Phone
ENG.	

Remarks

your records

GPO 845-881

Form 9400–8
(July 1965)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DAILY FLIGHT REPORT

Contracting (*paying*) Unit (*Name and Address include zip code*)

Flight Date: 12/12/65

CONTRACT OR AGREEMENT Number: 14-11-0008-2135

Date

Vendor (*Name and Address inc*: Roberts Airc, Box 1400 Nogs

Make and type of aircraft: Hiller 12-E

Req., P.O, or T.R. No. *

TRIP NO.	FLIGHT ORIGIN AND DESTINATION	FLIGHT PURPOSE: STANDBY	PERSONNEL TRANSPORT (No. Pass.)	PARA-CARGO FREIGHT (No. Pounds)	RETARDANT DROPPING: KIND	RETARDANT DROPPING: GALLONS (100's)	DET. & REC.	SMOKEJUMP. HELIJUMP.	SPRAYING (acres 100's)	SEEDING (acres 100's)	CAD. ENG.	OTHER (specify)	TIME: START	TIME: STOP	ELAPSED TIME: HRS.	ELAPSED TIME: MIN
1	From OPCNM Hdqtrs To Sonoyta Valley						X						1110	1235	1	25
2	From OPCNM Hdqtrs To Ajo Valley						X						1315	1430	1	15
3	From OPCNM Hdqtrs To BATES MTNS						X						1517	1638	1	21
~~4~~	From ~~OPCNM Hdqtrs~~ R&R To ~~Ajo Valley~~						~~X~~									
	From To															
	From To															
	From To															
	From To															
	From To															

Remarks

TOTAL = 5:31

(includes 1:30 FERRY-TIME 12/11/65)

TOTALS: 4 | 01

OVERNIGHT FEES

Location

Number of men

OTHER CHARGES OR CR: 1½ hrs ferry OPCNM Hd

TOTAL AMOUNT DUE

I CERTIFY That services listed have been received

Signature of Officer-in-Charge: Robert L. Schultz — Title: Range Mgr.

I CERTIFY That the bill is correct and no payment has been received

By (*Signature of Vendor or Agent*): W. Lynn Robert — Title: Owner

** Note changes in pilots, benefiting units, or fires by reference to Trip Numbers*

ss include zip code)	Name of Project & No. *
ircraft Co esa, Arizona	Organ Pipe
	FAA Number N5341V
Benefiting Unit *	Pilot's Name * W. L. Roberts

TIME AND CHARGES

PSED ME	RATE		OPER-ATING COSTS	ACT. WORK CODE	TOTAL CHARGES
MIN.	OPERA.	STANDBY			
05					
15					
21					
01					$

R CREDITS *(Identify)*
ry time Mesa to
wfs

E $

MEMORANDUM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DAILY FLIGHT REPORT

e and Address include zip code)

Flight Date: 12/13/65

CONTRACT OR AGREEMENT Number: 14-11-0008-2125

Date

Vendor (Name and Address include zip code): Roberts Aircraft Co. Box 1400 Mesa, Arizona

Make and type of aircraft: Hiller 12-E

Req., P.O. or T.R. No. *

Benefiting Unit *

Name of Project & No. *: Ergon Pipe

FAA Number: N5341V

Pilot's Name *: W. L. Roberts

GIN / ON	FLIGHT PURPOSE: STANDBY	PERSONNEL TRANSPORT (No. Pass.)	PARA-CARGO FREIGHT (No. Pounds)	RETARDANT DROPPING: KIND	RETARDANT DROPPING: GALLONS (100's)	DET. & REC.	SMOKEJUMP. HELIJUMP.	SPRAYING (acres 100's)	SEEDING (acres 100's)	CAD. ENG.	OTHER (specify)	TIME AND CHARGES: TIME START	TIME STOP	ELAPSED TIME HRS.	ELAPSED TIME MIN.	RATE: OPERA.	RATE: STANDBY	OPERATING COSTS	ACT. WORK CODE	TOTAL CHARGES
Hgts / alley						X						0930	1015	0	45					
alley / Hgts						X						1045	1135	0	50					

TOTAL FLIGHT-TIME 3:05
1:30 FERRY-TIME 12/6/65)

TOTALS		1	35					$
OVERNIGHT FEES								
Location								
Number of men								
OTHER CHARGES OR CREDITS (Identify) 1½ hrs ferry time OPCNM Hgts To Mesa, Arizona								
TOTAL AMOUNT DUE								$

have been received

Title: Range Mgr.

I CERTIFY That the bill is correct and no payment has been received

By (Signature of Vendor or Agent): W. Lyman Roberts

Title: owner

ing units, or fires by reference to Trip Numbers

MEMORANDUM

Form 9400–8
(July 1965)

UNITE
DEPARTMENT O
BUREAU OF LA

DAILY FLI

Contracting (*paying*) Unit (*Name and Address include zip co*

TRIP NO.	FLIGHT ORIGIN AND DESTINATION	STANDBY	PERSONNEL TRANSPORT (No. Pass.)
1	From OPCAM Heights To Crowley Valley		
2	From Crowley Valley To OPCAM Heights		
	From To		
	From To		
	From To		
	From To		
	From To		
	From To		
	From To		

Remarks

TOTAL FLIG

Includes 1:30 FERRY

I CERTIFY That services listed have been received

Signature of Officer-in-Charge	Title
Robert L. Schultz	Ranger

**Note changes in pilots, benefiting units, or fires by refere

RPM copy
C.C. to Schultz

Roberts Phone 21 969-9707

IN REPLY REFER TO:

RPM
1510

par

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
State Office
3022 Federal Building
Phoenix, Arizona 85025

November 26, 1965

Roberts Aircraft Company
Post Office Box 1400
Mesa, Arizona

Gentlemen:

This letter concerns rental of your helicopter under BLM Contract No. 14-11-0008-2135. If you agree to the following, we propose to continue this rental under this contract on range survey work we are doing on the Organ Pipe Cactus National Monument. The following resume is for your information:

We would expect to use your helicopter for a total of about eight hours, including three hours ferry time from Mesa, Arizona to the Monument headquarters and return.

The helicopter would be used for approximately two hours immediately before dark on the evening of December 8, 1965, and about 3 hours early in the morning of December 9, 1965.

The helicopter usage will involve airlifting one or two employees of the survey party over the mountainous areas of the Monument, possibly making occasional landings to observe vegetation and other conditions.

Operations would be carried on from a cleared, though unpaved area, adjacent to the Monument headquarters. The area for the heliport is south of the headquarters, and we understand it has been used previously by helicopters. Bob Schultz, the Chief of the Party on this project, will send you a sketch map showing the location of the cleared area.

Your pilot will be responsible for instructing government personnel regarding behavior in and around the helicopter.

If you are agreeable to this proposal, please sign the following statement indicating your concurrence and return it to this office.

To: Bureau of Land Management, Denver Service Center, Denver, Colorado

In accordance with your above proposal, I hereby agree to furnish one helicopter with pilot for transporting survey crew members at the Organ Pipe Cactus Monument, Arizona. I will provide this service in accordance with the terms and provisions of Contract No. 14-11-0008-2135. Ferry time charged to and from the Monument will not exceed three hours.

Payment for flying time flown on the Organ Pipe Cactus National Monument project will be paid over and above the 147 hours guaranteed under Contract No. 14-11-0008-2135.

ROBERTS AIRCRAFT COMPANY

By W. Lynn Roberts Title owner Date Dec 1, 1965

Meals will be furnished at the Monument headquarters. Lodging will need to be obtained at Ajo, Arizona.

Sincerely yours,

G. D. Doorhees

Acting State Director

RPM
1510

State Office
3022 Federal Building
Phoenix, Arizona 85025

November 26, 1965

Roberts Aircraft Company
Post Office Box 1400
Mesa, Arizona

Gentlemen:

This letter concerns rental of your helicopter under BLM Contract No. 14-11-0008-2135. If you agree to the following, we propose to continue this rental under this contract on range survey work we are doing on the Organ Pipe Cactus National Monument. The following resume is for your information:

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Payment for flying time flown on the Organ Pipe Cactus National Monument project will be paid over and above the 147 hours guaranteed under Contract No. 14-11-0008-2135.

ROBERTS AIRCRAFT COMPANY

By _____ Title _____ Date _____

Meals will be furnished at the Monument headquarters. Lodging will need to be obtained at Ajo, Arizona.

Sincerely yours,

G. D. Voorhees

Acting State Director

GDVoorhees/bw

Form 1510–3
(July 1964)
(formerly 4–140)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Washington, D. C. 20240

This number must appear on c PACKAGES and PAPERS relati to this order.

Requisition No.
382(10-21)

Order No.
08-551-178

Item Classification
700

PURCHASE ORDER

Date
October 21, 1965

ORGAN. STATE	ORGAN. OFC.	AV. YR.	ACTIVITY	WORK CODE	PROJECT	COMM. WATER	GEN. LDGR.	OBJ. CL.	DOCUMENT TYPE	DOCUMENT NO.	ACT. CODE	FAO	EXP	SF-37	GSA-1473	AMOUNT
Reimburst Project #698 National Park Service														9	3	$150.00(Approx

VENDOR
U. S. Geological Survey
Attention: Mr. Dale
Topographic Division
GSA Building, Room 1214
Washington, D. C.

SHIP TO
Consignee and Designation
State Director
Bureau of Land Management
U. S. Department of the Interior
Federal Building, Room 3022
~~WASHINGTON, D.C.~~ Phoenix, Arizona 8502

Project Name	Contract No. / Date	Delivery Time	Discount Terms
	Govt Agency	5-15 days	Net
	F.O.B. Point: Destination	Mode of Shipment	GBL No.

ITEM/STOCK NO.	ARTICLES OR SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Contact Aerial Photo Coverage of Organ Pipe Cactus National Monument in Arizona, and alternate photos.	1	job	Approx. Cost	$150.00
	NOTE: DELIVERY BEFORE 11-15-65 .				

Orig Blue receiving copy to Frank 1-14-66

I CERTIFY That the above articles and/or services were received on November 9 1965, in the quantity or amount shown and in good condition, except as otherwise noted hereon.

Signature: Francis A Riordan Title: Range Con.

POSTED: Property Clerk Date

PLEASE SUPPLY PROMPTLY THE ABOVE ARTICLES OR SERVICE

TOTAL $150.0

Signature: Frank Napoli

Name and Title: Frank Napoli
Chief, Branch of Procurement

☆GPO 842-137

2. RECEIVING COPY

Maps &

Other Supplies

FAR

RPM
Organ Pipe

State Office
3022 Federal Building
Phoenix, Arizona 85025

January 11, 1966
JAN 12 1966

U.S. Geological Survey
Topographic Division
345 Middlefield Road
Menlo Park, California 94025

Attention: Mr. Stewart

Gentlemen:

In conformance with your telephone conversation of this date with Mr. Riordan of my staff, we are returning mylar positives and negatives (18 in all) of six quadrangles covering the Organ Pipe Cactus National Monument, Arizona. Our order was ASO-84 dated December 12, 1965; your number P.3262M.

Your cooperation in furnishing similar maps without contours will be appreciated.

Sincerely,

RILEY E. FOREMAN
Acting State Director

Acting State Director

FAR:fac

Form 1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name: Wm. Leavell	FROM	Name: F.A. Riordan, Riley Foreman
	Office:		Office: RPM
	Location: Washington, D. C.		Location: Phoenix
	Telephone Number: 6985		Telephone Number:

Purpose of Call:

To advise of delay in preparation of base map for Organ Pipe Survey. USGS, Menlo Park, shipped Mylar positives of quadrangles with contour lines; they are correcting error with new Mylar positives but this delays map preparation here one to two weeks. Foreman discussed plans for use of surplus Phoenix District funds on San Simon, Safford District.

Also discussed proposed inspection of Arizona Districts by Washington staff during March.

Explanatory Remarks:

1-11-66 (Date)

s/ Francis A. Riordan (Signature)

READING FILE

GPO 851-219

Form DI-1
(Rev. 4-56)

UNITED STATES
DEPARTMENT OF THE INTERIOR

REQUISITION

Requisition Number

Date

To: Administrative Assistant

Bureau or Office: State Office

Appropriation and Allotment or Project No.: 02-910-1900 no work code Proj 698

Charge shipping costs to

Vendor

Deliver to: Range & Forestry

ITEM OR FORM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1.	Snake bite kits	5	ea		
2.	First aid kits (individual)	5	ea		
3.	Clip boards (Tatime holders)	5	ea		
4.	Scissors	1	pair		
5.	India ink - red, blue, green, black	2	bottles	of each	8
6.	Rapidograph pens, Size 00/ 00	4	ea		
7.	Rapidograph pens, Size 0	4	ea		
8.	Rapidograph pens, Size 01	4	ea		
9.	Rapidograph penpoints, 00	1	doz		
10.	Rapidograph penpoints, 0	1	doz		
11.	Rapidograph penpoints, 01	1	doz		
12.	12" rulers	2	ea		
13.	Marking pencils (Venus blueprint) green, blue, black and red	1	doz	of each	color
14.	Soft pencils - black #2	1	doz		
15.	Hard pencils - 3H black	1	doz		
16.	Ruled pads	6	ea		
17.	Notebooks, 6"	6	ea		
XXXXXXXXX					
18.	Triangles K-E #1852 2- 8" 45 °				
19.	Triangles K-E #1852 2-12@ 45°				

FOR USE WHEN ADDITIONAL APPROVAL IS REQUIRED

Bureau Officer

(Signature) (Date)

Title

Requisitioned by (signature)

Title

Approved by (signature)

Title

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.

GPO 916427

UNITED STATES
DEPARTMENT OF THE INTERIOR

REQUISITION

Requisition Number

Date

To

Adm. Assist.

Bureau or Office

SO

Appropriation and Allotment or Project No.

02-910-1400 Workcode Proj 608

Charge shipping costs to

Vendor

Deliver to

Range & Forestry

ITEM OR FORM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
20.	6' scales (K & E) #1430P	5	ea		
21.	Protractor, triangles, 6" K-E #1278-6	5	ea		
22.	Tape ~~XXX~~ steel (K-E Stevens Wyteface) 100' #7335D	1	ea		

First aid kits (individual) 5 ea

India ink - red, blue, green, black 2 bottles of each 8

6.	Rapidograph pens, Size 00/ 00	4	ea		
7.	Rapidograph pens, Size 0	4	ea		
8.	Rapidograph pens, Size 01	4	ea		
9.	Rapidograph penpoints, 00	1	doz		
10.	Rapidograph penpoints, 0	1	doz		
11.	Rapidograph penpoints, 01	1	doz		
12.	12" rulers	2	ea		
13.	Marking pencils (Venus blueprint) green, blue, black and red	1	doz of each color		
14.	Soft pencils - black #2	1	doz		
15.	Hard pencils - 3H black	1	doz		
16.	Ruled pads	6	ea		
17.	Notebooks, 6"	6	ea		

~~XXXXXXXX~~

18. Triangles K-E #1852 2- 8" 45°

19. Triangles K-E #1852 2-12" 45°

FOR USE WHEN ADDITIONAL APPROVAL IS REQUIRED

Bureau Officer

(Signature) (Date)

Title

Requisitioned by (signature)

Title

Approved by (signature)

Title

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.

GPO 916427

FORM 9-1359
(REV. 11-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ORDER FORM

IN REPLY REFER TO:
P 3262 M
~~6718xR~~

Topographic Division
345 Middlefield Road
Menlo Park, California 94025

Attn: Map Information Office

Type of reproductions MAP COPY (CAMERA) QUANTITY 6 18

Paper CRONAFLEX
(For aerial photographs, specify kind, weight, and finish)

Area ARIZONA
(Describe fully—give latitude, longitude, and quadrangle name, if applicable)

Symbol	Roll No.	Print numbers	Total	Account No.
		Make one cronaflex copy each right reading .007 scale one inch = one mile (1:63,360) for the following quadrangles AQUA DULCE MOUNTAINS QUITOBAQUITO SPRINGS KINO PEAK LUKEVILLE MT AJO DIAZ PEAK		

Purchase Order No. 1461109 ~~02-910-1900-698~~ Total prints 6 18

Please send reproductions to BUREAU OF LAND MANAGEMENT
(Name and address—please print or type)

Date ~~12-15-65~~ ~~Arizona State Office - 3022 Federal Bldg~~
(Street address—please print or type)

Signature MDS ~~Phoenix, Arizona 85025~~
(City or town, state—please print or type)

MIO No. Amount Received $ Amount Due $ 78 00

FINAL STATEMENT OF ACCOUNT

Prints shipped 1-4-66 (Date) via pp

Total charge $78 00 Refund Balance due $78 00

Statement rendered by MDS. Date 1-4-66

Remarks

16—76114c-1

CUSTOMER'S NOTIFICATION COPY

Form DI-1
(Rev. 4-56)

UNITED STATES
DEPARTMENT OF THE INTERIOR

REQUISITION

Requisition Number: ASO-84

Date: 12-8-65

To: U.S. Geological Survey
Topographic Division
345 Middlefield Road
Menlo Park, California

415-325-4761

Bureau or Office:

Appropriation and Allotment or Project No.:
1461109
02-910-1900- 698

Charge shipping costs to:

Vendor:
We are urgently in need of the following material from which to complete the range survey base maps of the Organ Pipe Cactus National Monument.

Deliver to:
Bureau of Land Management
Arizona State Office
3022 Federal Building
Phoenix, Arizona 85025

ITEM OR FORM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Furnish one copy each of the following quadrangles on a right-reading Mylar positive film, .005 inches to .0075 inches, matte one side: AGUA DULCE MOUNTAINS QUITOBAQUITO SPRINGS KINO PEAK LUKEVILLE MT. AJO DIAZ PEAK SPECIAL INSTRUCTIONS 1. Reduce finished quadrangle to an exact one inch = one mile scale. 2. Finish Mylar positive to depict only culture, hydrography and names -- contour and woodland cover to be left off. 3. If possible, to insure uniform scale between quadrangles, shoot all reductions on one set-up. ESTIMATE 50.00 Refer any questions on this special order to Mr. Riordan Area Code 604 - 261 - 3141				

FOR USE WHEN ADDITIONAL APPROVAL IS REQUIRED

Bureau Officer

(Signature) (Date)

Title

Requisitioned by (signature)

Title: Charles N. Hanna, Admin. Assistant

Approved by (signature)

Title

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.

GPO 916427

Form 1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name: Bob $ Constans	FROM	Name: Francis A. Riordan
	Office: Div. of Engineering		Office: ASO Div. of RPM
	Location: Denver Service Center, Denver, Colo.		Location: Phoenix
	Telephone Number:		Telephone Number:

Purpose of Call:

To coordinate plans for development of range survey maps of Organ Pipe Cactus National Monument. Advised that we were planning on making the map in ASO. Requested Constans to order for us, from USGS, mylar positives of quadrangle maps on one inch scale.

Explanatory Remarks:

12-7-65
(Date)

s/ Francis A. Riordan
(Signature)

READING FILE

GPO 851-219

NAME OF AGENCY
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C.

ACCOUNTING CLASSIFICATION
I-LLM

PRECEDENCE
ACTION:
INFO.:

TYPE OF MESSAGE
☐ SINGLE ☐ BOOK
☐ MULTI-ADDRESS

SECURITY CLASSIFICATION

THIS BLOCK FOR USE OF COMMUNICATIONS UNIT

STANDARD FORM 14 REV. MARCH 15, 1957
GSA REGULATION 2-IX-203.04
14-303

TELEGRAPHIC MESSAGE

OFFICIAL BUSINESS
U. S. GOVERNMENT

START MESSAGE ADDRESS HERE

MESSAGE TO BE TRANSMITTED (Use double spacing and all capital letters)

THIS COL. FOR AGENCY USE

RECEIVED
STATE OFFICE
NOV 18 1965

NOV 19 1965
BUR. OF LAND MGMT.
PHOENIX ARIZONA

ARIZONA STATE DIRECTOR
BUREAU OF LAND MANAGEMENT
FEDERAL BUILDING, ROOM 3022
PHOENIX, ARIZONA

RE RIORDAN REQUEST FOR ADDITIONAL AERIAL PHOTO COVERAGE FOR ORGAN PIPE NATIONAL MONUMENT SURVEY, ORDER HAS BEEN PLACED AND PHOTOS WILL BE SHIPPED DIRECT TO ROBERT SCHULTZ IMMEDIATELY. 4412:711

Edward J. Hoffmann

E. J. HOFFMANN
ACTING CHIEF, DIVISION OF
RESOURCE PROGRAM MANAGEMENT

CONFIRMATION

DO NOT TYPE MESSAGE BEYOND THIS LINE

PAGE NO. 1 | NO. OF PAGES 1

NAME AND TITLE OF ORIGINATOR (Type)
W. G. Leavell, Natural Resource Spec.

ORIGINATOR'S TEL. NO.
6985

DATE AND TIME PREPARED
11-18-65

SECURITY CLASSIFICATION

I certify that this message is official business, is not personal, and is in the interest of the Government.

(Signature)

☆ U.S. GOVERNMENT PRINTING OFFICE: 1959 OF—513800

NAME OF AGENCY

PRECEDENCE

ACTION:

INFO.:

TYPE OF MESSAGE

☐ SINGLE ☐ BOOK

☐ MULTI-ADDRESS

SECURITY CLASSIFICATION

ACCOUNTING CLASSIFICATION

THIS BLOCK FOR USE OF COMMUNICATIONS UNIT

STANDARD FORM 14 REV. MARCH 15, 1957
GSA REGULATION 2-IX-203.04
14-303

TELEGRAPHIC MESSAGE

OFFICIAL BUSINESS
U. S. GOVERNMENT

MESSAGE TO BE TRANSMITTED (Use double spacing and all capital letters)

THIS COL. FOR AGENCY USE

START MESSAGE ADDRESS HERE

NOVEMBER 18, 1965

STATE DIRECTOR
BUREAU OF LAND MANAGEMENT
PHOENIX, ARIZONA

RE RIORDAN REQUEST FOR ADDITIONAL AERIAL PHOTO COVERAGE FOR OPCNMS, ORDER HAS BEEN PLACED AND PHOTOS WILL BE SHIPPED DIRECTLY TO BOB SCHULTZ IMMEDIATELY. 4412:711

E. J. HOFFMAN
ACTING CHIEF, DIVISION OF RESOURCE
PROGRAM MANAGEMENT

DO NOT TYPE MESSAGE BEYOND THIS LINE

cc Bob Schultz
11-18-65

PAGE NO. | NO. OF PAGES

NAME AND TITLE OF ORIGINATOR (Type) | ORIGINATOR'S TEL. NO. | DATE AND TIME PREPARED

SECURITY CLASSIFICATION

I certify that this message is official business, is not personal, and is in the interest of the Government.

(Signature)

U.S. GOVERNMENT PRINTING OFFICE: 1959 OF—513800

T

AXXXYK-018

WYB020 YPX WWA 52 IGSA

WASHINGTON DC 11-18-65 1140R

FRANCIS A RIORDAN

GSA
TCS TELETYPE
Nov 18 10 27 AM '65

BUR OF LAND MNGMT PHOENIX ARIZ

REURTWX NOVEMBER 15 PRINTS FROM GS-VAHO MISSING FROM YOUR ORDER (OCTOBER 21ST WILL BE SENT AS SOON AS POSSIBLE) FROM THE J O KILMARTIN MAP INFORMATION OFFICE.

J O KILMARTIN

15 GS-VAHO 21ST

AK 1152R

NAME OF AGENCY

PRECEDENCE

ACTION:

INFO.:

TYPE OF MESSAGE

☐ SINGLE ☐ BOOK

☐ MULTI-ADDRESS

SECURITY CLASSIFICATION

ACCOUNTING CLASSIFICATION

THIS BLOCK FOR USE OF COMMUNICATIONS UNIT

STANDARD FORM 14 REV. MARCH 15, 1957
GSA REGULATION 2-IX-203.04
14-303

TELEGRAPHIC MESSAGE

OFFICIAL BUSINESS
U. S. GOVERNMENT

MESSAGE TO BE TRANSMITTED (Use double spacing and all capital letters)

THIS COL. FOR AGENCY USE

START MESSAGE ADDRESS HERE

NOVEMBER 15, 1965

LOWELL UDY (711)
RESOURCE PROGRAM MANAGEMENT
BUREAU OF LAND MANAGEMENT, U.S.D.I.
WASHINGTON, D.C.

AERIAL PHOTO COVERAGE FURNISHED FOR ORGAN PIPE CACTUS NATIONAL MONUMENT OMITTED SIX PHOTOS. THESE ARE: GS-VAHO DATE OCTOBER 1961. PHOTO NUMBERS 5-19, 5-21, 5-30, 5-32, 5-99, and 5-101.

PLEASE ORDER THE FOREGOING FOR EARLIEST POSSIBLE DELIVERY DATE AND SHIP DIRECT TO ROBERT SCHULTZ, ORGAN PIPE CACTUS NATIONAL MONUMENT, BOX 38, AJO, ARIZONA.

FRANCIS A. RIORDAN
RANGE CONSERVATIONIST

DO NOT TYPE MESSAGE BEYOND THIS LINE

PAGE NO. | NO. OF PAGES

NAME AND TITLE OF ORIGINATOR *(Type)*

ORIGINATOR'S TEL. NO.

DATE AND TIME PREPARED

SECURITY CLASSIFICATION

I certify that this message is official business, is not personal, and is in the interest of the Government.

(Signature)

U.S. GOVERNMENT PRINTING OFFICE: 1959 OF—513800

November 1, 1965

RECEIVED
STATE OFFICE
NOV 15 1965
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

TO: Riley Forman

FROM: Bob Schultz

the following aerial photos are needed to have full coverage of the Monument: (evidently they were omitted from the shipment)

Date: Oct, 1961 # - GS-VAHO

photos - 5-19, 5-21, 5-30, 5-32, 5-99 and 5-101

(six photos)

Ordered by teletype 11/15/65

This area is in the NW corner of the Monument on Quads Granite # 4 SE and NE.

They didn't send us an index. Luckily, the Park Service had one.

I had green ink on order. Hanna told me it was backordered. However, we need the green ink now, as the type lines are shown in green. Please see what you can do. The list of supplies I gave Phil Scholenburger yesterday is badly needed.

Come see us ——

Bob

11/17

Bob Schultz

November 12, 1965

Francis A. Riordan

Equipment and supplies

We are mailing water bags, Forms 4412-1, films, engineers scale (mine). The three new scales were rustled up by Acme Blue Print, the best I could do locally. They have the 5 pocket scales we ordered still on "back order" - not yet delivered as of 2 p.m. today. No help here today so the batteries and adhesive backed paper will have to wait until next week.

Voorhees advises that cadastral will end use of the helicopter about November 30. However the contractor has another ship, a supercharged Hiller, back from an Alaska contract, that will be available through most of November on a few days notice. We can use either ship on Cadastrals' contract, so you can make your plans accordingly.

Cost, including ferry time, $104.00 per hour less 20% or net cost $83.20 if paid in 20 days.

Sorry I couldn't get down to see you Wednesday. Will try and make it week after next. Next week I'll have to help Florence hold down the fort here - practically the whole State Office will be in Denver.

Regards,

Form 1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

TO	Name Bill Mathews	FROM	Name FHR
	Office		Office
	Location DC		Location
	Telephone Number 6985		Telephone Number

Purpose of Call:

~~Reply~~ To request follow up by WO on delivery of aerial photos - Organ Pipe Cactus Nat Monument.
Also relayed request of party chief for guidelines on suggested reimbursement please.

Explanatory Remarks:

11/9/85
(Date)

Frances H Riordan
(Signature)

RECORD COPY

GPO 851-219

Bob Schultz, Chief of Party

November 8, 1965

Francis Riordan, ASO

Miscellaneous supplies

Re your order, relayed through Ed Webb.

Tires: GSA advised Dean Jones (Phoenix District) that (1) the tires can be purchased through Joe Fraley (Fraley's Shell Station) Ajo. Have Fraley call Tom Jones, collect, GSA, Phoenix, 261-3636, for Purchase Order number on the tires; (2) charge tire mounting cost on credit card and send bill to GSA, 217 East Buchanan, Phoenix.

Re USGS maps. We checked with the boys in drafting. They show your order for reprints complete - so they can't tell which quads are missing. Let us know which prints you are missing and we will have copies made.

Re other miscellaneous supplies. Hanna is putting your order together for mailing. It should be out today or tomorrow.

No photos yet so we will call Washington in the morning.

FAR:fac

RPM
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

November 2, 1965

Memorandum

To: Director (711)

From: State Director, Arizona

Subject: Organ Pipe Cactus National Monument forage resource inventory

Bureau Manual 4412.11A describes, under final maps, the preparation of Unit Base Maps and Resource Township Plats. The vast majority of the Monument is unsurveyed and has been mapped topographically by USGS (see attached list). A planimetric map has not been produced. Because the area is unsurveyed, Resource Township Plats would have no value.

We propose the following base and data maps for the forage inventory.

Unit Base Map
Prepare a one-inch per mile scale base map from USGS quadrangles (15 minute series). This base map should show the main natural and existing cultural features, cadastral grid and other basic control and the boundary of the Monument.

Resource Plats
Prepare two-inch per mile scale plats from USGS advance quadrangles (scale 1:24,000). These plats would show range types and grazing capacity data in addition to the basic map features listed above. Initially, these plats will be used to compile forage survey data. As a finished product they will show surface acres, range types and grazing capacity data by vegetative type.

The cartographic work cannot be done at the Arizona State Office. As set forth in your memorandum of October 8, the Denver Service Center must give this work top priority.

If you concur in the proposed base and data maps, please advise DSC.

Fred J. Weiler

Attachment
RLS:fac
cc: Bob Schultz, Ajo
DSC

USGS Quadrangles

Organ Pipe Cactus National Monument
Pima County, Arizona

15 minute series (topographic)

Kino Peak
Mt. Ajo
Agua Dulce Mts.
Diaz Peak
Lukeville
Quitobaquito Springs

Advance Copies - scale 1:24,000

Granite Mountain - #4		NE
Granite Mountain - #4		SE
Quitobaquito - #1		NE
Growler Pass -		NW
Growler Pass		NE
Growler Pass		SW
Growler Pass		SE
Variz Mountain	2	NW
Variz Mountain	2	NE
Tonoca		NW
Tonoca		SW
Variz	1	NW
Variz	1	NE
Variz	1	SW
Variz	1	SE

Attachment

Form 1541–3
(July 1965)
(formerly 4–1599 a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIRMATION/REPORT OF TELEPHONE CONVERSATION

	TO		FROM
Name	Chris Vosler	Name	Riley E.Foreman
Office		Office	
Location	Denver	Location	Phx.
Telephone Number	8316	Telephone Number	

Purpose of Call:

Range Survey - Organ Pipe
Material and supplies - account number to be charged:

~~SO~~ 02-910-1900 (no work code) Project 698

Explanatory Remarks:

c/o Schultz
Box 38
Ajo

10-21-65 (Date)

s/ Riley E. Foreman (Signature)

RECORD COPY

GPO 851-219

RPM
4412.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

October 18, 1965

Mr. Andy Parker
Lakeview District Office
P.O. Box 429
Lakeview, Oregon 97630

Dear Andy:

Enclosed is a packet of informational material from the Organ Pipe National Monument. It should provide some background of the type of country in which you will be working during the survey.

At the present time we are compiling a list of equipment that will be needed for the survey. We find that we are short on Brunton compasses (pocket transits) and cameras. If at all possible, we would appreciate it if you would bring a camera and compass. If you own a saddle and riding gear, it would be well to bring them too. Also, any plant identification books which you may have concerning the Southwest might prove to be very useful. No specialized type of clothing will be necessary other than good heavy field boots and a light jacket. On the whole, the temperature is usually warm and moderate.

The Arizona State Office will prepare plant lists, PUF tables, etc.

Housing for families is extremely limited. The nearest place for families would be at Ajo, which is approximately 37 miles from Monument headquarters. Motel accommodations in Ajo are poor and limited. If any of you desire to bring your family with you and wish motel accommodations, please notify me as soon as possible so that I can check into reservations. I will need to know how many in your family, period of time you plan to be in the motel, etc.

You will note the memorandum from Washington indicated that apartments would be $15.00 per day period. This should be corrected to read per pay period.

If you have any further questions, please do not hesitate to contact me.

Sincerely,

Acting State Director

Enclosures
Identical letters to Blaine Lunceford, Price, Utah and Jerry Townsend, Las Cruces Dist., Las Cruces. REF:fac

OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

TO : Riley E. Forman **DATE:** October 15, 1965

FROM : Robert L. Schultz

SUBJECT: Organ Pipe Cactus National Monument Range Survey

I have just received the memorandum from the Denver Service Center.

I recommend that a copy of this memorandum be sent to all party members and advise each member to bring the following:

1. Saddle and other riding gear
2. Cameras
3. Stereoscopes and hand compasses
   (If not available from the Arizona State Office)
4. Any plant identification books, forage value and management literature that they may personally have of the area.

I guess that I will cut my hunting trip short and will be back in Montrose by the evening of October 19th. I will try to leave Montrose Saturday, October 23rd. By leaving this date I will be at your office Monday morning.

Robert L. Schultz

Items 1-4 I'll bring my own.
Camera is a 35 mm

OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

TO : Riley E. Forman, Arizona State Office **DATE:** October 13, 1965

FROM : Robert L. Schultz, Montrose District

SUBJECT: Organ Pipe Cactus National Monument Survey

The following material is needed for the field party:

1. Pocket steroscopes Kind?
2. Hand compasses ~~Runtons~~? Foresters?
3. Clip boards or tatum holders
4. Soft and hard lead pencils
5. Colored pencils
6. Forage survey write up sheets (form 4412-1)
7. Ink, green, black, and red
8. Ink pens - fine line points (Rapidograph pens are good if available) for aerial photo work.
9. Aerial photo holders (plastic or heavy acetate) Mylar? Iday
10. Note pads and paper
11. Measuring scales Kind?
12. Plant list
13. Proper Use Tables
14. Plant identification books adaptable to the area. ?

I have the following publications which I will bring with me:

a) "Principal Forage Plants of S. W. Ranges" - Rocky Mtn. F & R Exp. Sta.

b) "Arizona Range Grasses" - Bull. #298, Nov. 1960, University of Arizona, Tucson

First aid kits 3 or 4

c) "Manual of the Grasses of the U. S." - Hitchcock

Mr. Dwight Cable of the Forest Service Experiment Station at Tempe may recommend some good publications. Not only identification but forage value and management.

15. Allotment Grazing Capacity tabulation form 4412-2

16. Camera - photographs for narrative.

The memorandum of agreement states that the NPS will provide aerial photos and base maps. If the Arizona State Office has these photos it would be of great help if cartographic could place photo centers, conjugate principal points and match lines (delineating the effective area) prior to November 1. can't do

I plan on arriving in Phoenix either on the afternoon of October 25th or October 26th. I plan on checking back into the office during the middle of next week to see if there are any messages for me. My home phone is 249-9276 (area code 303).

See you soon ---

Bob Schultz

OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

SO 02-910-1900
no work code Project ## 698

TO : Riley E. Forman, Arizona State Office DATE: Odobber 13, 1965

FROM : Robert L. Schultz, Montrose District

SUBJECT: Organ Pipe Cactus National Monument Survey

The following material is needed for the field party:

1. Pocket steroscopes
2. Hand compass
3. Clip boards or tatum holders
4. Soft and hard lead pencils
5. Colored pencils
6. Forage survey write up sheets (form 4412-1)
7. Ink, green, black, and red blue
8. Ink pens - fine line points (Rapidograph pens are good if available) for aerial photo work.
9. Aerial photo holders (plastic or heavy acetate)
10. Note pads and paper
11. Measuring scales
12. Plant list
13. Proper Use Tables
14. Plant identification books adaptable to the area.

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See you soon ---

First Aid Kit ✓
Snake Bite Kit ✓
Accident Forms ✓
canteens Webb
Blue INK ✓
Hand tools B.O.
Shovels Webb
Axes Webb
Handy Man Jack Webb
Designated Physician Webb

Personnel &
Travel Records
&
Expenses

Salaries —	7,127.00
Supplies —	201.12 + 21.
Helicopter —	715.42 ~~894.40~~
Travel Vouchers —	2,192.54
— Parker's & Lunford's Doc. Vouchers.	550
U.S.G.S. estimated	50.00
Horse Hire	24.00
Vehicle Expense	921.69
	11,803.45

Estimated to finish

Aerial Photo	150
Salary —	1690
Draftmens —	350
Clerk —	150
P.D & travel —	624
Pictures —	50
	3,274

Cost

To 02-95-63	10-26-65	Acme Blue Print	173.61
Impress SV# 59	11-15-65	Radio Prints	3.11
25203	11-29-65	Photo Shop	12.67
# 25464	12-3-65	Photo Shop	11.73
	1/3/66		+ 21.72

Welt - Complete time

60 working ~~Time~~ Days

Oct - Feb

JR	11/23		12/22
Schultz —		392.65	265.84
Townsend	12/22	207.25	246.88
Lunsford	11/23	307.20	
Ed Webb		202.00	
Donald Barker		348.72	324.72

USGS Ext 50.00

Salaries $7,127.00

Room 02 95002 1900-698

Supplies - 201,12

Form 1510–3
(July 1964)
(formerly 4–140)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

PURCHASE ORDER

This number must appear on all PACKAGES and PAPERS relating to this order.

Requisition No. AS0-68 Riordan

Item Classification

Order No. 02-95-63

Date 10-26-65

ORGAN. STATE	ORGAN. OFC.	AV. YR.	ACTIVITY	WORK CODE	PROJECT	COMM. WATER	GEN. LDGR.	OBJ. CL.	DOCUMENT TYPE	DOCUMENT NO.	ACT. CODE	FAO	EXP	SF-37	GSA-1473	AMOUNT
02	910	06	1900		698				26			0		3	3	$175.23

VENDOR
Acme Blue Print Co.
1425 N. 1st Street
Phoenix, Arizona 85004

SHIP TO
Consignee and Designation
Bureau of Land Management
Arizona State Office
3015 Federal Building
Phoenix, Arizona 85025

Project Name 1461109
Organ Pipe

Contract No. O.M.
Date

Delivery Time Immediate

Discount Terms Net

F.O.B. Point Destination

Mode of Shipment Local

GBL No. None

ITEM/STOCK NO.	ARTICLES OR SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Rapidograph Pen, 00, 0, 01 (4 each)	12	ea	3.96	47.52
	Rapidograph Penpoint, 00, 0, 01 (12 each)	36	ea	1.60	57.60
	Pelikan Ink, red,blue,green,black (2 each)	8	ea	.49	3.92
	Triangle, K&E #570292, 8" 45°	2	ea	1.49	2.98
	Triangle, K&E #570292, 12" 45°	2	ea	2.93	5.86
	Map Scale, K&E #563284, 6"	5	ea	2.70	13.50
	Protractor, K&E 1274-6, 6"	5	ea	1.17	5.85
	Steel Tape,K&E #860109 (Stevens Wyteface)	1	ea	18.90	18.90
	Folding Pocket Magnifier, 5X to 12X	5	ea	3.82	19.10

PLEASE SUPPLY PROMPTLY THE ABOVE ARTICLES OR SERVICE

TOTAL 175.23

Signature

Name and Title Charles N. Hanna
Administrative Assistant

Arizona State Office
3015 Federal Building
Phoenix, Arizona 85025

☆GPO 843-699

7. MEMORANDUM COPY

Ed

Here are the charges which the district obligated.

DEC. CAR EXPENSE	#430.23
NOV. CAR EXPENSES	121.65
	50.42
	295.39
HORSE RENTAL	24.00
TOTAL	#921.69

Dean J.

7127

222.84

894.40

2192.54

74.00

921.69

11432.47

550

11982.47

843

12|9879

96

27

24

39

666

12|8000

72

80

666

845

2

1690

4

45

2

90

600

6

0

12,000

3500

15500

500

16,000

16

7

112

4

448

Estimated

Salary - 1690

P.D & trad - 624

Typing - 150

Drafting - 350

Pictures - 50

3364

150

3514

180|48911

360

1311

1080

2310

1800

5100

4500

6000

5400

6000

5400

600

180|48911

540

1311

1260

510

360

1500

1440

600

540

60

.1

.09

.009

.096

.04

.0864

4.0

.00

.040

.020

.05

.0160

.096

.04

.100

.1

0.09

.009

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02-95-516

DEPARTMENT, BUREAU, OR ESTABLISHMENT: INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME: ROBERT L. SCHULTZ

PAID BY

MAILING ADDRESS: 1008 South 11th Street
Montrose, Colorado 81401

OFFICIAL DUTY STATION: Montrose, Colorado

RESIDENCE: Montrose, Colorado

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
1/26/66	2/16/66

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DOC-66-75 Amendment	1/1/66

TRAVEL ADVANCE

Outstanding	$
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

February 17, 1966

AMOUNT CLAIMED → Dollars: 395 Cts: 76

APPROVED *(Supervisory and other approvals when required)*

Acting State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER →

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

05 030 1900 698 21 31 0 0 $395.76

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)
1/13/1966	7:30 a.m.	Phoenix, Arizona	1/13/1966

DATE 19 66	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE 08¢		AMOUNT CLAIMED		
		SPEEDOMETER READINGS	NO. OF MILES	MILEAGE	SUBSISTENCE	OTHER
Jan. 26 - 2/14	On duty at Phoenix, Arizona 20 days @ $16.00				320 00	
Febr. 15	*Left Phoenix, Ariz., 3 p.m. via private vehicle	39635				
	Ar. Flagstaff, Ariz. 5:30 p.m.	39786	151	12 08		
	1 day @ $16				16 00	
16	Left Flagstaff, Ariz. 7:30 a.m.	39786				
	Ar. Montrose, Colorado 5:00 p.m.	40232	446	35 68		
	Via private vehicle 3/4 day @ $16				12 00	
	To conduct Organ Pipe Cactus National Monument Survey					
	*Mileage computed from Federal Building, downtown Phoenix					
	I certify, except as stated herein, that no Government trailer or camp was available; that no meals or lodging were furnished by the Government during the above travel; that all travel in Government owned vehicles was on official business, and that no quarter deductions are being made from the payroll.					
	Grand total to face of voucher (Subtotals, to be carried forward if necessary) →		$395.76	47 76	348 00	

GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

R+R

02-95-449

DEPARTMENT, BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Robert L. Schultz

PAID BY

MAILING ADDRESS
1008 So. 11th Street
Montrose, Colorado

OFFICIAL DUTY STATION
Montrose, Colorado

RESIDENCE
Montrose

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
January 13	**January 25, 1966**

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-75	**10-15-65**

TRAVEL ADVANCE

	$
Outstanding	
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

January 25, 1966

AMOUNT CLAIMED →

Dollars	Cts
250	**72**

APPROVED *(Supervisor and other approvals when required)*

Sheldon E. Collins
Acting State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER →

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

05 030 1900 698 21 31 0 0 250.72

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19 66	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE 08 ¢		AMOUNT CLAIMED					
		SPEEDOMETER READINGS	NO. OF MILES	MILEAGE		SUBSISTENCE		OTHER	
Jan. 13	Lv. Montrose, Colorado 7:30 a.m.	38,115							
	Ar. Phoenix, Arizona 7:00 p.m.	38,699	584	46	72				
	PER DIEM: 3/4 day @ $16.00					12	00		
1-14 to 1-25	At Phoenix Organ Pipe Cactus National Monument Survey								
	PER DIEM: 12 days @ $16.00					192	00		
	On Duty - Phoenix January 25, 1966								
	No government meals and/or lodging furnished or made available.								
				46	72	204	00		

Grand total to face of voucher (Subtotals, to be carried forward if necessary) → 250.72

GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

RPM
1382.11

State Office
3022 Federal Building
Phoenix, Arizona 85025

January 14, 1966

Memorandum

To: Administrative Director, DSC

From: State Director, Arizona

Subject: Travel Authorization - Robert L. Schultz - No. DSC-66-75

Travel authorization for Schultz, Chief of Party on the Organ Pipe Cactus National Monument Survey was issued by you on October 15, 1965.

When the field work on the survey was finished in mid December it developed that map preparation and compilation of survey data could best be accomplished in Phoenix. This, of course, will necessitate Schultz working in Phoenix with some travel to the monument and elsewhere within Arizona until the project is completed on or about March 1.

Since Travel Authorization No. DSC-66-75 expired on or about Dec. 31, 1965, we request a new authority to cover Schultz's detail until the project is completed.

Fred J. Weiler

FAR:bb

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

12-2-65

02.95-390

DEPARTMENT, BUREAU, OR ESTABLISHMENT

VOUCHER NO.

PAYEE'S NAME
Blaine R. Lunceford

PAID BY

MAILING ADDRESS
248 North 3rd East
Price, Utah 84501

OFFICIAL DUTY STATION
Price, Utah

RESIDENCE
Price, Utah

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
11/24/65	**12/16/65**

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-71	**10/15/65**

TRAVEL ADVANCE

Outstanding	$
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOMMODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

12/20/65

	Dollars	Cts
AMOUNT CLAIMED →	**270**	**80**

APPROVED *(Supervisory and other approvals when required)*

State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER →

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

43	070	1900	698	21	31	0 0	270.80

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19 65	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____ ¢		AMOUNT CLAIMED		
		SPEEDOMETER READINGS	NO. OF MILES	MILEAGE	SUBSISTENCE	OTHER
11/24-12/13	On duty at Organ Pipe Cactus National Monument on survey					
	Government facilities provided. No meals provided.					
	Per diem claimed - 20 days @ $8.00 per day				160 00	
12/14	Leave Organ Pipe Cactus Monument 10:30 am Arrive Phoenix, Ariz. 2 p.m.	5817				
	Per diem claimed - 1/2 day @ $8.00 and 1/2 day @ $16.00				12 00	
12/15	Leave Phoenix 6:45 am Arr.St. George, Utah 7 pm					
12/16	Lv. St. George 7:45 am Arr. Price 5:30 pm					
	Per diem claimed - 1-3/4 days @ $16 per day				28 00	
	Mileage in Price	6702				
	885 miles @ .08 per mile			70 80		
	All travel by personal vehicle.					
	Grand total to face of voucher (Subtotals, to be carried forward if necessary) →		$270.80	70 80	200 00	

GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

ENG

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02-95-450

DEPARTMENT, BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Edward L. Webb

PAID BY

MAILING ADDRESS
3041 Federal Building
Phoenix, Arizona 85025

OFFICIAL DUTY STATION
Phoenix, Arizona

RESIDENCE
Phoenix

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
January 10	**January 25,1966**

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-94	**10-25-65**

TRAVEL ADVANCE

Outstanding	$
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOMMODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

January 25, 1966

AMOUNT CLAIMED →

Dollars	Cts
82	**00**

APPROVED *(Supervisory and other approvals when required)*

Acting State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH-YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER →

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

02	020	1290	140		21	31	0	0	42.00
02	020	1900		698	21	31	0	0	40.00

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB-UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19 66	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____¢		AMOUNT CLAIMED					
		SPEEDOMETER READINGS	NO. OF MILES	MILEAGE		SUBSISTENCE		OTHER	
January									
10	Lv. Phoenix, Arizona 9:30 a.m.								
	Ar. Kingman, Arizona 1:30 p.m.								
	PER DIEM: 3/4 day @ $12.00						9	00	
	Locate catchments sites for Job Corps (1290-140)								
	All travel in Government vehicle G41-21013								
11-12	In Kingman, Arizona on official business (catchment sites for Job Corps)								
13	Lv. Kingman 11:00 a.m.								
	Ar. Phoenix 3:30 p.m.								
	PER DIEM: From 1/11/66 to 3:30 1/13/66 2 3/4 days @ $12.00						33	00	
17	Lv. Phoenix 9:00 a.m.								
	Ar. Tucson, Arizona 6:00 p.m.								
	Organ Pipe Cactus National Monument en route								
18	At Tucson - calculate forage acre requirement on the Santa Rita Experi. Station								
19	Lv. Tucson 9:00 a.m.								
	Ar. Phoenix 1:00 p.m.								
	All travel in Government vehicle G41-21013								
	PER DIEM: 2½ days @ $16.00 (From 9:00 a.m. 1/17 to 1:00 p.m. 1/19/66)						40	00	
	No government meals and/or lodging furnished or made available.								
							82	00	

Grand total to face of voucher (Subtotals, to be carried forward if necessary) → 82.00

GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

ORPM

RPM
4412.11
Organ Pipe

State Office
3022 Federal Building
Phoenix, Arizona 85025

January 17, 1966

Memorandum

To: Blaine Lunceford, Price District Office, Utah

From: Chief, Division of Resource Program Management, Arizona

Subject: Travel Voucher - OPCNM Range Survey

The Arizona State Office has not received your travel voucher for the period November 23 through the return trip to your District.

Normally you would have this voucher approved by the Arizona State Director. If this voucher was approved by your State or District, please send us a copy of the voucher. If you did send a voucher to the Arizona State Office for approval, please resubmit.

As we are finishing the project, your prompt submission of pictures or slides that you may have will be appreciated. Of course, we are most anxious to see the aerial shot of the Bighorn.

Orley E. Foreman

B.Schultz/fac

UNITED STATES GOVERNMENT

2-Way Memo

Subject:

DATE OF MESSAGE
January 21, 1966

DATE OF REPLY

INSTRUCTIONS
Use routing symbols whenever possible.
SENDER:
Forward original and one copy. Conserve space.
RECEIVER:
Reply below the message, keep one copy, return one copy.

To:

Riley E. Foreman
Bureau of Land Management
Federal Building, Room 3022
Phoenix, Arizona 85025

5027—101

FOLD FOLD

USE BRIEF, INFORMAL LANGUAGE

My travel voucher was partially prepared here and sent to theArizona State Director for his signature, and for obligation, on or about December 20, 1965. I have already received payment for this travel.

The film I used in Arizona was purchased with the processing prepaid. I sent it to the company for processing on December 26 or 27, and have heard nothing from them yet. I have written them about this and expect an early reply. I will send the pictures as soon as I receive them.

Blaine Lunceford

From:

Blaine R. Lunceford
Bureau of Land Management
Box 552
Price, Utah

1. TO BE RETAINED BY ADDRESSEE

OPTIONAL FORM 27
OCTOBER 1962
GSA GEN. REG. NO. 27

12-23-65 OJ 95-382
DONALD A. PARKER

RPM
4412.11
Organ Pipe

State Office
3022 Federal Building
Phoenix, Arizona 85025

January 17, 1966

Memorandum

To: Andy Parker, Lakeview District Office, Lakeview, Oregon

From: Chief, Division of Resource Program Management, Arizona

Subject: Travel Voucher - OPCNM Range Survey

The Arizona State Office has not received your travel voucher for the period Novembe. 23 through the return trip to your District.

Normally you would have this voucher approved by the Arizona State Director. If this voucher was approved by your State or District, please send us a copy of the voucher. If you did send a voucher to the Arizona State Office for approval, please resubmit.

The colored prints that you recently sent to use did not have the negatives enclosed. As we are finishing this project, your prompt submission of these negatives and the several helicopter pictures will be appreciated. The bill for the processing of these prints can be paid out of imprest funds. This bill should be made out to BLM.

Orley E. Taeuber

B.Schultz/fac

P-1541-1
August 1964
(Formerly A1-150)
UNITED STATES GOVERNMENT

Memorandum

RECEIVED
STATE OFFICE
JAN 21 1966
BUR. OF LAND MGMT.
PHOENIX ARIZONA

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO:
4412.11

DATE: January 20, 1966

TO : Chief, Division of Resource Program Management, Arizona

FROM : D. Andy Parker

SUBJECT: Travel Voucher - OPCNM Range Survey

My travel voucher was airmailed from the district office December 20 or 21 to Arizona State Office, Division of Resource Program Management, 3022 Federal Bldg., Phoenix Arizona - 85025. This voucher was returned to the Lakeview District Office from the Denver Service Center to be obligated. It was mailed to the above Phoenix address for this obligation information (we had made it according to the previous voucher for the trip down). I am re-submitting a voucher as you requested.

Several of the negatives are being processed for duplicates. They will be sent as soon as possible. Helicopter slides just received are enclosed.

SLIDE DESIGNATION:

#7 Creosote bush ½ mile south of Armenta Place

#8 Creosote and erosion 1 mile south of Armenta Place

(#9 Creosote bush surrounded by young creosote plants)
(#10 South of Armenta Place - 3 miles.)

Enclosures: as stated

D. Andy Parker

DI 502 E (OCT. 65) PRINTED IN U.S.A.

REG.	BLOCK	SUB-BLOCK	SOCIAL SECURITY NO.	ORGANIZATION	PAY PERIOD	PARTIAL DEDUCT.	LIMIT PAYS	PAY PERIOD ENDING DATE	TYPE	LOCATION CODE	EMPLOYEE NAME
30	02	02	521 22 3713	020200	03			80-01-29	3	20	EDWARD L WEBB

TIME AND ATTENDANCE REPORT

DEPARTMENT OF THE INTERIOR

Webb

HOURS SYMBOLS

REGULAR	ANNUAL LEAVE	SICK LEAVE	MILITARY LEAVE	L W O P	REGULAR O/T	SUNDAY O/T	HOLIDAY O/T	COMP. EARNED	COMP. TAKEN	HOLIDAY WORKED	NIGHT DIFF.	SEA OVERTIME	PENALTY PAY
R	A	S	ML	LP	RO	SO	HO	CE	CT	H	ND	SK	PN

HOURS CODES

SECONDARY RATE CODE "2" IN SR IF APPLICABLE	MILITARY LEAVE	L W O P	REGULAR O/T	SUNDAY O/T	SEA O/T	HOLIDAY O/T	PENALTY PAY	COMP. EARNED	COMP. TAKEN	HOLIDAY WORKED	NIGHT DIFF.
SHIFT CODES											
S SWING	U	2	3	4	5	6	7	8	9		
G GRAVEYARD											

SUN	MON	TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT
16	17	18	19	20	21	22	23	24	25	26	27	28	29
	8R	8R	8R	8R	8R			8R	8R	8R	8R	8R	
	8	8	8	8	8			8	8	8	8	8	

COST STRUCTURE				REGULAR				ANNUAL LEAVE				SICK LEAVE				OTHER			
ACTV	W/C	PRO	CW	SR	SC	HC	HOURS	SR	SC	HC	HOURS	SR	SC	HC	HOURS	SR	SC	HC	HOU
1900 1600 Jc		698		1			80	A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							

← EMPLOYEE INITIALS FOR LEAVE TAKEN

TOTALS ← DAILY PAY PERIOD → 80

TOTAL REGULAR	TOTAL ANNUAL	TOTAL SICK	TOTAL OTHER
80			

REMARKS:

CERTIFIED CORRECT Florence G. Chaffin
TIMEKEEPER OR SUPERVISOR

COST STRUCTURE	MISCELLANEOUS PAY			MISCELLANEOUS DEDUCTION		
	CODE	HOURS IN TENTHS	AMOUNT	CODE	HOURS IN TENTHS	AMOUN

U. S. DEPARTMENT OF THE INTERIOR

EMPLOYEE'S EARNINGS STATEME

DATE MO	DATE DAY	DATE YR	EMPLOYEE NAME	EARNINGS THIS PAY PERIOD: REGULAR PAY	NIGHT DIFF.	OTHER	GROSS PAY	DEDUCTIONS THIS PAY PERIOD: RET/FICA	FEDERAL TAX	STATE TAX	HEALTH BENEFITS	F E G L I	UNION DUES	BONDS	CONTRI-BUTIONS	OTHER	NET PA
1	16		EDWARD L WEBB	38000			38000	2470	5720	251	788	250		3750			247

CUMULATIVE TOTALS - EARNINGS YEAR-TO-DATE						ANNUAL LEAVE						SICK LEAVE					OTHER LEAVE			SAVINGS BONDS			
EARNINGS	FEDERAL TAX	STATE TAX	HEALTH BENEFITS	UNION DUES	CONTRI-BUTIONS	CODE	CEILING OR CARRY OVER	EARNED	TAKEN	ADVANCE BALANCE	AVAILABLE	CARRY OVER	EARNED	TAKEN	ADV. BAL.	AVAILABLE	COMP. BAL.	MIL.	L.W.O.P	BOND BALANCE	ISSUED	DEL. THIS PE NO	

STANDARD FORM NO. 1012a
7 GAO 5300
1012-207

TRAVEL VOUCHER
MEMORANDUM

12/23/65
02-95-382

DEPARTMENT, BUREAU, OR ESTABLISHMENT

VOUCHER NO.

PAYEE'S NAME: DONALD A. PARKER

SCHEDULE NO.

MAILING ADDRESS: % First National Bank
Lakeview Branch
Lakeview, Oregon

PAID BY

OFFICIAL DUTY STATION: Lakeview, Oregon

RESIDENCE: Box 846, Lakeview, Oregon

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE): 11/24/65

TO (DATE): 12/18/65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.: DSC 66-72 1

DATE: 10/15/65

TRAVEL ADVANCE

Outstanding $

Amount to be applied

Balance to remain outstanding $

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOMMODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

Copy
not original submission

January 20, 1965

	Dollars	Cts
AMOUNT CLAIMED →	324	72

APPROVED *(Supervisory and other approvals when required)*

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER → 324 72

ACCOUNTING CLASSIFICATION

36 010 1900 698 $324.72

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19 65	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____¢ SPEEDOMETER READINGS	NO. OF MILES	AMOUNT CLAIMED MILEAGE	SUBSISTENCE	OTHER
~~11/24~~	12:00 Am MST					
~~12/14~~	~~6:00 Am MST Organ Pipe Nat'l. Monument~~					
	20½ da. @ $8.00				162 00	
	Park facilities used.					
12/14	9:00 Am MST Leave Organ Pipe Nat'l. Monument					
	3:00 Pm MST Arr. Phoenix, Arizona					
	Map Miles		143	11 44	12 00	
12/15	10:00 Am MST Leave Phoenix, Ariz.					
	5:00 Pm MST Arr Kingman Map Miles		183	14 64	16 00	
12/16	8:00 Am MST Leave Kingman					
	4:00 Pm PST Arr. Tonopah, Nev. Map Miles		307	24 56	16 00	
12/17	9:00 Am PST Leave Tonopah, Ne. Map Miles					
	4:00 Pm PST Arr Reno, Nev.		238	19 04	16 00	
12/18	8:00 Am PST Leace Reno, Nev.					
	1:00 Pm PST Arr. Lakeview, Ore. Map Miles		263	21 04	12 00	
	Hazardous driving conditions due to weather.					
	Travel from duty assignment - $16.00 per day.					
	Travel by Government vehicle except where mileage is shown. Private vehicle license No. 6V99 Oregon					
	NO GOVERNMENT MEALS OR LODGING AVAILABLE.					
	Grand total to face of voucher (Subtotals, to be carried forward if necessary) →		$324.72	90 72	234 00	

GOVERNMENT PRINTING OFFICE : 1965 O - 760-648

R+F

STANDARD FORM NO. 1012a
7 GAO 5300
1012-207

TRAVEL VOUCHER
MEMORANDUM

02-95-381

DEPARTMENT, BUREAU, OR ESTABLISHMENT

VOUCHER NO.

PAYEE'S NAME: Edward L. Webb

SCHEDULE NO.

MAILING ADDRESS: 3041 Federal Building
Phoenix, Arizona

PAID BY

OFFICIAL DUTY STATION: Phoenix, Arizona

RESIDENCE: Phoenix, Arizona

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
11-24-65	12-14-65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-94	10-25-65

TRAVEL ADVANCE

Outstanding	$
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOMMODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

December 23, 1965

AMOUNT CLAIMED → Dollars: 112 Cts: 00

APPROVED *(Supervisory and other approvals when required)*

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER →

ACCOUNTING CLASSIFICATION

02 020 1900 698 21 31 112.00

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION	(DATE OF ARRIVAL)

DATE 19~~65~~ ~~Nov~~	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____¢		AMOUNT CLAIMED					
		SPEEDOMETER READINGS	NO. OF MILES	MILEAGE		SUBSISTENCE		OTHER	
24	Organ Pipe Nat Mon								
25	Lv Organ Pipe 8:00 AM Arr Phoenix 11:30 AM								
29	Lv Phoenix 4:30 AM Arr Organ Pipe 8:00 AM								
30	On duty Organ Pipe								
Dec 1-2	On duty Organ Pipe								
3	Lv Organ Pipe 5:~~00~~ AM Arr Phoenix 8:30 PM								
6	Lv Phoenix 4:30 AM Arr Organ Pipe 8:00 AM								
7-9	On duty Organ Pipe								
10	Lv Organ Pipe 5:00 PM Arr Phoenix 8:00 PM								
12	Lv Phoenix 7:00 AM Arr Organ Pipe 10:00 AM								
13	On duty Organ Pipe								
14	Lv Organ Pipe 10:30 AM Arr Phoenix 2:30 PM								
	Journey Complete: 14 da @ 8.00					112	00		

ASO
R+F

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02 95-366

DEPARTMENT BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
JERRY P. TOWNSEND

PAID BY

MAILING ADDRESS
P. O. Box 1425
LAS CRUCES, NEW MEXICO

OFFICIAL DUTY STATION
LAS CRUCES, NEW MEXICO

RESIDENCE

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
11/24/65	12/15/65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-74	10/15/65

TRAVEL ADVANCE

Outstanding	$
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

/s/ JERRY P. TOWNSEND

December 22, 1965

	Dollars	Cts
AMOUNT CLAIMED →	246	88

APPROVED *(Supervisory and other approvals when required)*

Fred J. Weiler
State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH-YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER → 246 88

ACCOUNTING CLASSIFICATION *Appropriation symbol must be shown; other classification optional)*

30 030 1900 698 21 31 0 0 246.88

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room, RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth, UB, upper berth; LB-UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)
10/31/65	3:00 PM	ORGAN PIPE CACTUS NAT. MONUMENT	11/2/65

ARIZONA

DATE 19 65	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE .08¢ SPEEDOMETER READINGS	NO. OF MILES	AMOUNT CLAIMED MILEAGE	SUBSISTENCE	OTHER
11/24	Lv. ORGAN PIPE CACTUS NAT. MON. 3:00 PM					
	ARR. LAS CRUCES, N.MEX. 12:00 PM					
	3/4 DAY @ $8.00, 1/4 @ 16.00				10 00	
11/28	Lv. LAS CRUCES, N.MEX. 1:30 PM	220				
	ARR. ORGAN PIPE CACTUS NAT. MON. 10:00 PM	704	484	38 72		
	1/2 DAY @ 16.00				8 00	
11/29	THRU					
12/13	15 DAYS (GOV'T FACILITIES USED)				120 00	
12/14	Lv. ORGAN PIPE CACTUS NAT. MON. 10:00 AM	1113				
	ARRIVED PHOENIX, ARIZONA 2:00 PM	1273	160	12 80		
	1/2 DAY @ 8.00				4 00	
	1/2 DAY @ 16.00				8 00	
12/15	Lv. PHOENIX, ARIZONA 1:00 PM	1273				
	ARR. LAS CRUCES, N.MEX. 9:00 PM	1640	367	29 36	16 00	
	1 DAY @ 16.00					
	TRAVEL ON 11/24/65 BY GSA VEHICLE					
	ALL OTHER TRAVEL BY PRIVATE VEHICLE					
	I CERTIFY THAT NO MEALS WERE FURNISHED BY THE GOVERNMENT.					
	"TRAVEL BY PRIVATELY-OWNED VEHICLE ON 11/28, 12/14 AND 12/15 WAS DETERMINED TO BE TO THE ADVANTAGE OF THE GOVERNMENT AND REIMBURSEMENT AT THE MILEAGE RATE CLAIMED IS APPROVED."					
	Grand total to face of voucher (Subtotals, to be carried forward if necessary) →	246.88	1011	80 88	166 00	

GOVERNMENT PRINTING OFFICE 1962 O—653278—24-C

R+F

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02-95-369

DEPARTMENT BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Robert L. Schultz

PAID BY

MAILING ADDRESS
1008 South 11th
Montrose, Colorado

OFFICIAL DUTY STATION
Montrose, Colorado

RESIDENCE
Montrose

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
11-24-65	12-17-65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-75	10-15-65

TRAVEL ADVANCE

Outstanding	$ 150.00
Amount to be applied	150.00
Balance to remain outstanding	$ ----

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

December 22, 1965

	Dollars	Cts
AMOUNT CLAIMED →		115 84

APPROVED *(Supervisory and other approvals when required)*

State Director Fred L. Weiler

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER →

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown, other classification optional)*

05 030 1900 698 21 31 0 0 115.84

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth, UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)
10-23-65	9:00 a.m.	Organ Pipe Cactus Nat'l Mon.	10-25-65 (Ajo,Ariz.)

DATE 19 65	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE .08 Speedometer Readings	No. of Miles	Amount Claimed: Mileage	Subsistence	Other
11-24	At Organ Pipe Cactus National Monument					
12-13	(Range Survey)					
	PER DIEM: 20 days @ $8.00				160 00	
12-14	Lv. Organ Pipe 10:30 a.m.					
	Ar. Phoenix 2:30 p.m.					
	PER DIEM: ½ day @ $8.00				4 00	
	½ day @ $16.00				8 00	
		95,410				
	MILEAGE: 141 miles @ .08	95,551	141	11 28		
12-15	In Phoenix, Arizona on official business					
	PER DIEM: 1 day @ $16.00				16 00	
12-16	Lv. Phoenix 7:00 a.m.					
	Ar. Cortez, Colo. 5:00 p.m.					
12-17	Lv. Cortez 8:00 a.m.					
	Ar. Montrose, Colorado 12:00 noon					
	PER DIEM: 1½ days @ $16.00				24 00	
		95,551				
	MILEAGE: 532 miles @ .08	96,083	532	42 56		
	Travel in privately-owned vehicle Colorado WB 1208					
	No government meals furnished					
				53 84	212 00	

Grand total to face of voucher (Subtotals, to be carried forward if necessary) → 265.84

GOVERNMENT PRINTING OFFICE 1962 O—653278—24-C

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

District Office
P. O. Box 419
Montrose, Colorado 81401

December 17, 1965

MEMORANDUM

To: Florence Chaffin

From: Bob Schultz

Subject: Completion of Travel Voucher

12/16/65	Lv. Phoenix 7 a.m., Ar. Cortez, Colo. 5 p.m. 1 day @ $16	$16.00
	Mileage: Lv. 95551 Ar. 95951 400 Mi. @ $.08	$32.00
12/17/65	Lv. Cortez, Colo. 8 a.m., Ar. Montrose 12 Noon 1/2 day @ $16	8.00
	Mileage: Lv. 95951 Ar. 96083 132 Mi. @ $.08	10.56

Merry Christmas!

Bob Schultz

4

12/2/65

TO: Florence Chafin, ASO
FROM: Bob Schultz
Subject: Sick Leave - Townsend

Attached SF71 for Jerry. He has a cold that is getting down and is going into Rijo to see a Doctor.

He will be on active duty status tomorrow.

November 16, 1965

Flak

TO: Riley Forman
FROM: Bob Schultz
Subject: GSA Vehicles - OPCNM survey

Jerry Townsend has had a plymouth sedan checked out from the Las Cruces Motor Pool. GSA asked him to have it back to Cruces by Thanksgiving. Therefore, he plans on driving it back and return to Organ Pipe in his private car. (He just bought a new pickup). Will he be allowed to claim milage on his private car when he returns to the Monument after Thanksgiving and be allowed milage back to Las Cruces when the jot is over?

This sedan has be used by me to get around. (not the best situation) With this vehicle now going back to Cruces, and the way our work is

laying out I have need for another 4x4 vehicle. Can you obtain a 4x4 rig from GSA or the Phoenix D.O.? A Unit. Jeep would be my first choice.

I plan on spending Thanksgiving with Ed Webb in Mesa. Ed and I could come over to Phoenix Friday Nov 26th and get the vehicle.

Bob Schultz

ORGAN PIPE

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02 95 302

DEPARTMENT BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Robert L. Schultz

PAID BY

MAILING ADDRESS
Bureau of Land Management
3022 Federal Building
Phoenix, Arizona 85025

OFFICIAL DUTY STATION
Montrose, Colo

RESIDENCE
Montrose, Colo

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
10/23/65	11/23/65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
OSC-66-75	10/15/65

TRAVEL ADVANCE

Outstanding	$ 400.00
Amount to be applied	250.00
Balance to remain outstanding	$ 150.00

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOMMODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–
NONE						

11/23/65 Robert L. Schultz

	Dollars	Cts
AMOUNT CLAIMED →	392	65
Applied to travel advance (appropriation symbol)	250	00
NET TO TRAVELER →	142	65

APPROVED *(Supervisory and other approvals when required)*

~~Acting~~ State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

05 030 1900 648 21 31 0 0 142.65

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19__	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ___¢ SPEEDOMETER READINGS	NO. OF MILES	AMOUNT CLAIMED MILEAGE	SUBSISTENCE	OTHER
10/23	Lv Montrose, Colo 7 am	11116				
	arr Flagstaff, Ariz 1:30 pm	11537	421	11 20	11 60	
10/24	Lv Flagstaff, Ariz 2 pm	11537				
	arr Phoenix, Ariz 11:20 pm	11621	114	11 55	16 00	
10/25	Lv Phoenix, Ariz 10 am					
	Ariz (Yuma Area)				16 00	
10/26	Ariz to Ariz (Organ Pipe Cactus NM)				16 00	
10/27	Lv Ariz (via field) 7 am					
	arr Phoenix, Ariz 11 am				16 00	
10/28						
11/1	Phoenix, Ariz (5 days)				80 00	
11/2	Lv Phoenix, Ariz 9 am	11704				
	arr Organ Pipe Cactus NM 1:30 pm	11709	115	11 60	15 25	
	(Commercial facilities used)					
11/3	Organ Pipe Cactus NM					
11/23	(Gov't Facilities used) (21 days)				16 80	
	Travel by private vehicle					
	where mileage is shown					
	in WB 1205 (Col. 10)					
	other travel by GSA vehicle					
	I certify that no transportation					
	was furnished by the					
	Government for the					
	purpose of this travel.					

Grand total to face of voucher (Subtotals, to be carried forward if necessary) → 392.65 | 53 10 | 339 25

GOVERNMENT PRINTING OFFICE 1962 O—653278—24-C

ORGAN P. PE

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02-95-300

DEPARTMENT BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Blaine Richard Luncsford

PAID BY

MAILING ADDRESS
248 North 3 East
Price, Utah 84501

OFFICIAL DUTY STATION
Price, Utah

RESIDENCE
Price Utah

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
10-21-65	11-23-65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC-66-71	10-15-65

TRAVEL ADVANCE

Outstanding	$ 200.00
Amount to be applied	200.00
Balance to remain outstanding	$ None

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–
None						

11-23-65 Blaine R. Luncsford

AMOUNT CLAIMED → Dollars 307 | Cts 20

APPROVED *(Supervisory and other approvals when required)*
Fred J. Weiler
State Director, Arizona

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol) 200 00

NET TO TRAVELER → 107 20

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown, other classification optional)*

43 070 21 31 0 0 307.20

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room, RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth, UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 1965	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE 11.0¢ SPEEDOMETER READINGS	NO. OF MILES	AMOUNT CLAIMED MILEAGE	SUBSISTENCE	OTHER
10-24	Leave Price Utah 1:30 PM	3564				
	Arrive Beaver Utah 7 PM	3745	181	14 48	9 00	
10-30	Leave Beaver Utah 5:30 AM	3745				
	Arrive Kingman Arizona 7:30 PM	4111	366	29 28	16 00	
10-31	Leave Kingman Arizona 2:30 AM	4111				
	Arrive Phoenix Arizona 12:30 PM	4290	179	14 32	16	
11-1	At Phoenix Arizona		0		16 00	
11-2	Leave Phoenix Ariz. 9 AM	4290				
	Arrive Organ Pipe Cactus Nat. Mon.	4454	164	13 12	12 00	
11-3 to 11-23	At Organ Pipe Cactus National Monument in Government Facilities 21 Days at $8.00 Per day				168 00	
	I Certify that no meals were furnished by the Government					
	By chart on American Oil Co. map of Utah Price To Kanab is 313 miles According to Gulf Turquiz map of Arizona-New Mexico it is 414 miles from Kanab Utah to the Organ Pipe Cactus National Monument Headquarters This is 807 miles shortest distance					
	Travel was by Private vehicle License No. 148 491 Mileage Noted was where gasoline Purchased, Not Center of Town.					

Grand total to face of voucher (Subtotals, to be carried forward if necessary) → 307.20 810 71 20 23 00

GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

ORGAN PIPE

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02-95-301

DEPARTMENT, BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Donald A. Parker

PAID BY

MAILING ADDRESS
c/o First National Bank
Lakeview Branch
Lakeview, Oregon

OFFICIAL DUTY STATION
Lakeview, Oregon

RESIDENCE
Box 846 Lakeview, Ore

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
10/28/65	11/23/65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE
DSC 66-72	10/15/65

TRAVEL ADVANCE

Outstanding	$ 0
Amount to be applied	
Balance to remain outstanding	$ 0

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–
None						

11/23/65 Donald A. Parker

AMOUNT CLAIMED →

Dollars	Cts
348	72
~~349~~	~~72~~

APPROVED *(Supervisory and other approvals when required)*

State Director, Arizona Fred J. Weiler

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH-YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER → 348 72

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

36 010 1900 (698 21 31 0 0 348.72

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB-UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19 65	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____¢ SPEEDOMETER READINGS	NO. OF MILES	AMOUNT CLAIMED MILEAGE	SUBSISTENCE	OTHER
~~10/28~~	8 AM PDT Leave from Lakeview, Ore.	Map				
	7:30 PM PDT Arr. Hawthorne, Nev.	Mileage	313	29 94	12 00	
~~10/29~~	8 AM PDT Leave Hawthorne, Nev.	Map				
	3:30 PM PDT Arr. Las Vegas, Nev.	Mile	314	25 12	16 00	
~~10/30~~	8 AM PDT Leave Las Vegas, Nev.	Map		24 32	DAP	
	3:00 PM MST Arr. Phoenix, Ariz.	Mile	304	~~24 32~~	16 00	
~~11/2~~	9 AM MST Leave Phoenix, Ariz.	Map				
	1:30 PM MST Arr. Oregon Pipe Nat'l Mon.	Mile	143	11 44	14 00	
	Travel enroute to Duty Assignment @ 16.00/day					
11/2	1:30 PM MST Oregon Pipe Nat'l Mon.					
11/23	12:00 PM MST					
	21 1/4 days @ 8.00					
	Park Facilities Used				170 00	
	Travel by gov't vehicle					
	except where mileage is shown.					
	Private Vehicle License No. 6V99 Oregon					
	No gov't meals					
	No leave taken					

ORGAN PIPE

STANDARD FORM NO. 1012a
7 GAO 5300
1012-206

TRAVEL VOUCHER
MEMORANDUM

02-95-299

DEPARTMENT, BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME
Jerry P. Townsend

PAID BY

MAILING ADDRESS
Box 1425
Las Cruces, New Mexico

OFFICIAL DUTY STATION
Las Cruces, New Mexico

RESIDENCE
Las Cruces, New Mexico

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
10/31/65	11/23/65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE

TRAVEL ADVANCE

Outstanding	$
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–

11/23/65 Jerry P. Townsend

	Dollars	Cts
AMOUNT CLAIMED →	207	25

APPROVED *(Supervisory and other approvals when required)*

State Director, Arizona Fred J. Weiler

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH-YEAR)

Total verified correct for charge to appropriation(s)		
Applied to travel advance (appropriation symbol)		
NET TO TRAVELER →	207	25

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

30 030 1100 618 21 31 0 0 207.25

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19__	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____¢ SPEEDOMETER READINGS	AUTHORIZED MILEAGE RATE ____¢ NO. OF MILES	AMOUNT CLAIMED MILEAGE	AMOUNT CLAIMED SUBSISTENCE	AMOUNT CLAIMED OTHER
10/21	Lv. Los Cruces, New Mexico 3 PM					
	Arr. Phoenix, Arizona 1:30 PM					
10/21	Phoenix, Arizona				16 00	
10/22	Lv. Phoenix, Arizona 2 PM					
	Arr. Los Cruces, New Mex. 6 PM				1 25	
10/22	(Government Facilities Used)					
10/23	Cruces Pipe Coats Detailed Assignment (2 days)				16 00	
	(Government Facilities Used)					
	All travel by G.S.A. Vehicle					
	Security Guard Assignments					
	Furnished by the Government					
	Grand total to face of voucher (Subtotals, to be carried forward if necessary) →				20 25	

GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

ORGAN PIPE

STANDARD FORM NO. 1012a
7 GAO 5300
1012–206

TRAVEL VOUCHER
MEMORANDUM

02-95-298

DEPARTMENT, BUREAU, OR ESTABLISHMENT
INTERIOR, BUREAU OF LAND MANAGEMENT

VOUCHER NO.

PAYEE'S NAME Edward L. Webb

PAID BY

MAILING ADDRESS Bureau of Land Management
Phoenix District Office
Rm. 3041, Federal Building
Phoenix, Arizona

OFFICIAL DUTY STATION
Phoenix District Office

RESIDENCE 1324 E. 5th Ave.
Mesa, Ariz.

FOR TRAVEL AND OTHER EXPENSES

FROM (DATE)	TO (DATE)
10-25-65	11-23-65

APPLICABLE TRAVEL AUTHORIZATION(S)

NO.	DATE

TRAVEL ADVANCE

	$
Outstanding	
Amount to be applied	
Balance to remain outstanding	$

CHECK NO.

TRANSPORTATION REQUESTS ISSUED

TRANSPORTATION REQUEST NUMBER	AGENT'S VALUATION OF TICKET	INITIALS OF CARRIER ISSUING TICKET	MODE, CLASS OF SERVICE, AND ACCOM-MODATIONS *	DATE ISSUED	POINTS OF TRAVEL FROM–	POINTS OF TRAVEL TO–
None						

11-23-65 Edward L. Webb

AMOUNT CLAIMED → Dollars 202 | Cts 00

APPROVED *(Supervisory and other approvals when required)*

State Director, Arizona Fred J. Weiler

DIFFERENCES:

NEXT PREVIOUS VOUCHER PAID UNDER SAME TRAVEL AUTHORITY

VOUCHER NO.	D.O. SYMBOL	DATE (MONTH–YEAR)

Total verified correct for charge to appropriation(s)

Applied to travel advance (appropriation symbol)

NET TO TRAVELER → 202 00

ACCOUNTING CLASSIFICATION *(Appropriation symbol must be shown; other classification optional)*

02	020	1900	698	21	31	0	0	175.00
02	020	1220	820		A/P 207	0	0	27.00

* Abbreviations for Pullman accommodations: MR, master room; DR, drawing room; CP, compartment; BR, bedroom; DSR, duplex single room; RM, roomette; DRM, duplex roomette; SOS, single occupancy section; LB, lower berth; UB, upper berth; LB–UB, lower and upper berth; S, seat.

SCHEDULE OF EXPENSES AND AMOUNTS CLAIMED

PREVIOUS TEMPORARY DUTY *(Complete these blocks only if in travel status immediately prior to period covered by this voucher and if administratively required)*

DEPARTURE FROM OFFICIAL STATION (DATE)	(HOUR)	TEMPORARY DUTY STATION LAST DAY OF PRECEDING VOUCHER PERIOD (LOCATION)	(DATE OF ARRIVAL)

DATE 19__	NATURE OF EXPENSE	AUTHORIZED MILEAGE RATE ____¢		AMOUNT CLAIMED					
		SPEEDOMETER READINGS	NO. OF MILES	MILEAGE		SUBSISTENCE		OTHER	
10-21	Lv. Phoenix, Ariz. 10:00 A.m. Arr. Organ Pipe N.t.l Monument(Ajo) [illegible]						9 75		
10-21	Organ Pipe National Monument (Ajo, Ariz) — Vicinity						13 00		
10-22	Lv. Ajo, Ariz. Organ Pipe Natl. Mon. 7:00 AM Arr. [illegible] Ariz 11:00 A.m.						4 50		
11-2	Lv. Phoenix, Ariz - [illegible] Organ Pipe Natl. [illegible]								
11-3	Lv. Phoenix, Ariz 4:30 A.m. Arr. Organ Pipe N.t.l. Monument 1:30 P.M.						9 75		
11-3 — 11-4	Organ Pipe N.t.l. Monument						16 00		
11-5	Lv. Organ Pipe N.t.l. Monument 5:00 P.M - Arr. Phoenix, Ariz 8:30 P.M.						8 00		
11-8	Lv. Phoenix, Ariz. 4:30 A.M. Arr. Organ Pipe N.t.l. Monument 8:00 A.M.						8 00		
11-4 — 11-11	Organ Pipe N.t.l. Monument						24 00		
11-12	Lv. Organ Pipe N.t.l. Monument 5:30 P.M. Arr. Phoenix Ariz 9:00 P.M.						8 00		
11-15	Lv. Phoenix, Ariz 4:30 A.M. Arr. Organ Pipe N.t.l. Monument 8:00 A.M.						8 00		
11-16 — 11-23	Organ Pipe National Monument						64 00		
	I certify — No meals furnished by Government								
	Lodging furnished by Government from 11-3 To 11-23-65								
	District Travel								
10-21	Lv. Phoenix, Ariz 11:00 P.M. Arr. Kingman, Ariz. 4:30 P.M.						6 00		
10-22	Kingman, Arizona						12 00		
10-24	Lv. Kingman, Ariz. 1:30 P.M. Arr. Phoenix, Ariz 3:00 P.M.						9 00		
	Grand total to face of voucher (Subtotals, to be carried forward if necessary) →			202.00 175.00			202 00 175 00		

U.S. GOVERNMENT PRINTING OFFICE : 1962 O—653278—24-C

McRae 11/17/65

RECEIVED
STATE OFFICE
NOV 18 1965
BUR. OF LAND MGMT.
PHOENIX, ARIZONA

TO: Florence Chafin, ASO

FROM: Bob Schultz

Subject: Travel Voucher - OPC NM Survey

Enclosed are travel vouchers for the crew. Its now we appreciate our district clerks.

Please note the following:

1./ complete the accounting classification for us.

2/ Townsend's Voucher - No travel Auth. shown. the Las Cruces District Kept the authorization. You may have to call them to get the number.

3/ Webb's Voucher - We tried to make one voucher for District travel and the Monument Survey travel together. If this is not satisfactory, Ed is enclosing two signed blank copies so that you may re-do them. Webb was suppose to have a Special Travel auth. for the survey, but we haven't seen ~~them~~ it.

4/. I understand that the cut-off is Nov. 23rd. If there is any change to the 23rd I will call you on the phone. Note that we dated our signatures on the 23rd

5/. I assume that Riley or Mr. Weiler will sign the approval block.

Bob Schultz

UNITED STATES
DEPARTMENT OF THE INTERIOR
Form No. DI - 1020
Form approved by Comp. Gen. U.S.
November 8, 1949

TRAVEL AUTHORIZATION

1. No. DSC-66-75
2. 10/15/65 (Date)

3. BUREAU OF LAND MANAGEMENT (Bureau or Office)

4. NAME Robert L. Schultz
5. OFFICIAL STATION Montrose, Colorado
6. TITLE Range Manager
7. ACCOUNTING OFFICE Denver, Colorado

You are authorized to travel as indicated below and to incur necessary expenses in accordance with applicable laws and regulations.

PLACES OF TRAVEL

8. FROM: Montrose, Colorado
9. TO: Phoenix, Arizona; Organ Pipe Cactus National Monument, Arizona, and to various other points within the state of Arizona and return.

10. PURPOSE AND REMARKS:

Detail to perform Forgge Resource Inventory in accordance with Memorandum dated October 8, 1965, from the Director.

11. PER DIEM ALLOWANCE:

$16.00 enroute to and from Organ Pipe Cactus National Monument/
13.00 while at Organ Pipe Cactus Nat'l Monument if commercial facilities are use
8.00 while at National Monument if N.P.S. (gov't) facilities are used.

12. PERIOD OF TRAVEL: Beginning on or about October 30, 1965 Ending on or about Dec. 31, 1965

MODE OF TRAVEL

13. ☒ Common carrier 14. ☐ Extra fare 15. ☒ Government-owned conveyance
16. ☒ Privately owned automobile at a mileage rate of .08 cents, subject to:
(a) ☐ Administratively determined to be to the advantage of the Government
(b) ☐ A showing of advantage to the Government
(c) ☐ Not to exceed cost by common carrier, including consideration of Per Diem allowance

MISCELLANEOUS

17. ☐ Transportation immediate family
18. ☐ Other *(specify)*
19. ☐ Shipment household goods and personal effects

ESTIMATED COST

20. Transportation $
21. Per Diem
22. Other
23. TOTAL $
24. CHARGED TO: applicable appropriation

25. (Fiscal officer's signature)

26. (Requestor's signature)

27. (Title)

28. Lowell M. (Authorizing officer's signature)

29. Director-Denver Service Center (Title)

FILE COPY

ORGAN PIPE CACTUS NATIONAL MONUMENT SURVEY

Bob Schultz	GS-11	$9,535	Montrose	$1,509.00
Jerry P. Townsend	GS-7	6,450	Las Cruces	1,075.00
Andy Parker	GS-9	7,710	Lakeview	1,285.00
Rulon McRae	GS-9	7,710	Safford	1,285.00
Blaine Lungsford	GS-9	7,710	Price	1,285.00
				$6,599.00
		8% Benefits		528.00
				$7,127.00

Mileage 10,000 miles

1 Pickup 2 Jeeps	GSA	250.00 800.00
		$1,050.00

Per Diem

$16 en route $13 and $8 on the job	$3,900.00
Denver SC Range Staff	400.00
Travel to Monument and return	750.00
	$13,227.00
25% Overhead	3,307.00 ???
TOTAL	$16,534.00

Lowell Ulrich

UNITED STATES GOVERNMENT

2-Way Memo

RECEIVED
STATE OFFICE
OCT 28 1965
BUR. OF LAND MGMT.
PHOENIX ARIZONA

DATE OF MESSAGE: 10/19/65

DATE OF REPLY:

INSTRUCTIONS

Use routing symbols whenever possible.
SENDER:
Forward original and one copy.
Conserve space.
RECEIVER:
Reply below the message, keep one copy, return one copy.

Subject: Time Reporting
Oregon Pipe Cactus National Monument Forage
Resource Inventory

To: State Director, Arizona

5027-101

FOLD — FOLD

USE BRIEF, INFORMAL LANGUAGE

This is in regard to instructions for submission and preparation of Time Reports for Mr. Schultz and members of his crew.

Time Reports should be maintained in the Arizona State Office for all employees assigned to this project and submitted direct to the Division of Financial Operations, Denver Service Center, on the last Friday of each pay period. Salary checks will, however, be mailed to the respective designated agent at the permanent duty station. We are enclosing, Request for Special Handling of Salary Check, which each employee may complete to authorize the designated agent to remail his checks, as desired.

Time Reports will be coded to show the block, state and office codes denoting the permanent duty station with hours worked costed to activity 1900, Project 698. The block, state and office codes are listed below:

NAME	Blk	STATE & OFFICE
Bob Schultz	GD	05030
Jerry Townsend	MD	30030
~~Rulon McRae~~ Edward Webb	ED	~~02040~~ 02020
Andy Parker	NB	36010
Blaine Lunceford	RH	43070

CC:
SD, Colorado, N. Mex., Oregon, Utah
DM, Montrose, Las Cruces, Safford, Lakeview, Price

Charles J. Cato
Acting

From: Finance Officer
Division of Financial Operations
DSC

1. TO BE RETAINED BY ADDRESSEE

OPTIONAL FORM 27
OCTOBER 1962
GSA. GEN. REG. NO. 27

Game Vouchers - Nov 23. 1965

Bob Schultz	29265
Blaine Lunceford	30720
Ed Webb	17500
Jerry Townsend	20725
Cindy Parker	34872
	~~140~~ 143082

RPM
4412.11
1382.1

State Office
3022 Federal Building
Phoenix, Arizona 85025

October 25, 1965

Memorandum

To: Administrative Director, Denver Service Center

From: Acting State Director, Arizona

Subject: Travel Authorization DSC-66-73

Returned herewith is Travel Authorization for Rulon G. McRae.

Mr. McRae has been replaced on the survey team by Edward Webb of the Phoenix District Office. This is in accordance with information from Mr. Udy of the Washington Office. Please issue Travel Authorization for Edward L. Webb, Wildlife Management Biologist, Phoenix District.

Enclosure

REF:fac

Robert L. Schultz
Wife - Donna A. Schultz Montrose, Co.
office phone - 249-3491
Home phone - 249-9276

Blaine R. Lunceford
Office Phone 637-1371 Price, Utah
Mother = Vernett P. Lunceford Phone = 225-0547

Donald A. Parker
Off. Ph. WH7-2177 Lakeview, Oregon
Parents - Geneva R. Parker Ph. No. 385-4806
1209 S. Phelps Littlefield, Texa

Jerry P. Townsend
office 526-2791
Brother - Carlos L. Townsend
Greenbrier St.
Concord, Calif.

Edward L. Webb

REG.	BLOCK	SUB BLOCK	SOCIAL SECURITY NO	ORGANIZATION	PAY PERIOD	PARTIAL DEDUCT	LIMIT DAYS	PAY PERIOD ENDING DATE	TYPE	LOCATION CODE	EMPLOYEE NAME
30	05	03	548 36 6571	050300	03			66-01-29	3	GD	ROBERT L SCHULTZ

TIME AND ATTENDANCE REPORT

DEPARTMENT OF THE INTERIOR

HOURS SYMBOLS

L	LP	RO	SO	HO	CE	CT	H	ND	SK	PN
LEAVE	MILITARY LEAVE	L W O P	REGULAR O/T	SUNDAY O/T	HOLIDAY O/T	COMP. EARNED	COMP. TAKEN	HOLIDAY WORKED	NIGHT DIFF.	SEA OVERTIME	PENALTY PAY

HOURS CODES

SHIFT CODES		MILITARY LEAVE	L W O P	REGULAR O/T	SUNDAY O/T	SEA O/T	HOLIDAY O/T	PENALTY PAY	COMP. EARNED	COMP. TAKEN	HOLIDAY WORKED	NIGHT DIFF.
S	SWING											
G	GRAVEYARD	U	2	3	4	5	6	7	8	9		

SECONDARY RATE — CODE "2" IN SR IF APPLICABLE

TUES	WED	THUR	FRI	SAT	SUN	MON	TUES	WED	THUR	FRI	SAT
18	19	20	21	22	23	24	25	26	27	28	29
R	8R	8R	8R			8R	8R	8R	8R	8R	
8	8	8	8			8	8	8	8	8	

COST STRUCTURE				REGULAR				ANNUAL LEAVE				SICK LEAVE				OTHER			
ACTV	W/C	PRO	CW	SR	SC	HC	HOURS	SR	SC	HC	HOURS	SR	SC	HC	HOURS	SR	SC	HC	HOURS
1900		698		1			80	A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							
				1				A				S							

← EMPLOYEE INITIALS FOR LEAVE TAKEN

TOTALS ← DAILY PAY PERIOD → 80

TOTAL REGULAR	TOTAL ANNUAL	TOTAL SICK	TOTAL OTHER
80			

COST STRUCTURE	MISCELLANEOUS PAY			MISCELLANEOUS DEDUCTIONS		
	CODE	HOURS IN TENTHS	AMOUNT	CODE	HOURS IN TENTHS	AMOUNT

Florence G. Chaffin

TIMEKEEPER OR SUPERVISOR

NT OF THE INTERIOR

EMPLOYEE'S EARNINGS STATEMENT

EMPLOYEE NAME	EARNINGS THIS PAY PERIOD				DEDUCTIONS THIS PAY PERIOD									
	REGULAR PAY	NIGHT DIFF.	OTHER	GROSS PAY	RET/FICA	FEDERAL TAX	STATE TAX	HEALTH BENEFITS	FEGLI	UNION DUES	BONDS	CONTRI-BUTIONS	OTHER	NET PAY
ROBERT L SCHULTZ	38000			38000	2470	3864	580	773	250		625			29438

UNITED STATES
DEPARTMENT OF THE INTERIOR
Form No. DI - 1020
Form approved by Comp. Gen. U.S.
November 8, 1949

TRAVEL AUTHORIZATION

1. No. DSC-66-75 Amendment
2. 1/1/66 (Date)

3. BUREAU OF LAND MANAGEMENT (Bureau or Office)

4. NAME Robert L. Schultz
5. OFFICIAL STATION Montrose, Colorado
6. TITLE Range Manager
7. ACCOUNTING OFFICE Denver, Colorado

You are authorized to travel as indicated below and to incur necessary expenses in accordance with applicable laws and regulations.

PLACES OF TRAVEL

8. FROM:
9. TO:

10. PURPOSE AND REMARKS:

To change termination date of detail. All other items to remain the same.

11. PER DIEM ALLOWANCE:

12. PERIOD OF TRAVEL: Beginning on or about October 30, 1965 Ending on or about June 30, 1966

MODE OF TRAVEL

13. ☐ Common carrier
14. ☐ Extra fare
15. ☐ Government-owned conveyance
16. ☐ Privately owned at a mileage rate of cents, subject to:
    - *(a)* ☐ Administratively determined to be to the advantage of the Government
    - *(b)* ☐ A showing of advantage to the Government
    - *(c)* ☐ Not to exceed cost by common carrier, including consideration of Per Diem allowance

MISCELLANEOUS

17. ☐ Transportation immediate family
18. ☐ Other *(specify)*
19. ☐ Shipment household goods and personal effects

ESTIMATED COST

20. Transportation $
21. Per Diem
22. Other
23. TOTAL $
24. CHARGED TO:

~~appr~~ applicable appropriation

25. (Fiscal officer's signature)

26. (Requestor's signature)
27. (Title)
28. Lowell M. Puckett, Director (Authorizing officer's signature)
29. Denver Service Center (Title)

FILE COPY

Comp. Gen. U.S.
November 8, 1949

TRAVEL AUTHORIZATION

1. No. DSC 66-94 AMENDMENT
2. 1/1/66 (Date)

3. BUREAU OF LAND MANAGEMENT (Bureau or Office)

4. NAME Edward Webb
5. OFFICIAL STATION Phoenix, Arizona
6. TITLE Range Conservationist
7. ACCOUNTING OFFICE Denver, Colorado

You are authorized to travel as indicated below and to incur necessary expenses in accordance with appli cable laws and regulations.

PLACES OF TRAVEL

8. FROM:
9. TO:

10. PURPOSE AND REMARKS:

To change termination date of detail. All other items to remain the same.

11. PER DIEM ALLOWANCE:

12. PERIOD OF TRAVEL: Beginning on or about October 30, 1965 Ending on or about June 30, 196

MODE OF TRAVEL

13. ☐ Common carrier
14. ☐ Extra fare
15. ☐ Government-owned conveyanc
16. ☐ Privately owned at a mileage rate of cents, subject to:
    - (a) ☐ Administratively determined to be to the advantage of the Government
    - (b) ☐ A showing of advantage to the Government
    - (c) ☐ Not to exceed cost by common carrier, including consideration of Per Diem allowance

MISCELLANEOUS

17. ☐ Transportation immediate family
18. ☐ Other *(specify)*
19. ☐ Shipment household goods and personal effect

ESTIMATED COST

20. Transportation $
21. Per Diem
22. Other
23. TOTAL $
24. CHARGED TO: applicable appropriation

25. (Fiscal officer's signature)

26. (Requestor's signature)
27. (Title)
28. Lowell M. Puckett (Authorizing officer's signature)
29. Director-Denver Service Center (Title)

FILE COPY

Florence

UNITED STATES
DEPARTMENT OF THE INTERIOR
Form No. DI-1020
Form approved by Comp. Gen. U.S.
November 8, 1949

TRAVEL AUTHORIZATION

1. No. DSC-66-94
2. 10/25/65 (Date)

3. BUREAU OF LAND MANAGEMENT (Bureau or Office)

4. NAME Edward Webb
5. OFFICIAL STATION Phoenix, Arizona
6. TITLE Range Conservationist
7. ACCOUNTING OFFICE Denver, Colorado

You are authorized to travel as indicated below and to incur necessary expenses in accordance with applicable laws and regulations.

PLACES OF TRAVEL

8. FROM: Phoenix, Arizona
9. TO: Organ Pipe Cactus National Monument, Arizona, and to various other points within the state of Arizona and return.

10. PURPOSE AND REMARKS:

Detail to perform Forage Resource Inventory in accordance with Memorandum dated October 8, 1965, from the Director.

11. PER DIEM ALLOWANCE:

$16.00 enroute to and from Organ Pipe Cactus National Monument.
13.00 while at Organ Pipe Cactus Nat'l Monument if commercial facilities are used
8.00 while at National Monument if N.P.S. (gov't) facilities are used.

12. PERIOD OF TRAVEL: Beginning on or about October 30, 1965 Ending on or about Dec. 31, 1965

MODE OF TRAVEL

13. [X] Common carrier
14. [ ] Extra fare
15. [XX] Government-owned conveyance
16. [ ] Privately owned automobile at a mileage rate of .08 cents, subject to:
    (a) [ ] Administratively determined to be to the advantage of the Government
    (b) [ ] A showing of advantage to the Government
    (c) [ ] Not to exceed cost by common carrier, including consideration of Per Diem allowance

MISCELLANEOUS

17. [ ] Transportation immediate family
18. [ ] Other *(specify)*
19. [ ] Shipment household goods and personal effects

ESTIMATED COST

20. Transportation $
21. Per Diem
22. Other
23. TOTAL $
24. CHARGED TO: applicable appropriation
25. (Fiscal officer's signature)

26. (Requestor's signature)
27. (Title)
28. Lowell M. Puckett (Authorizing officer's signature)
    Lowell M. Puckett
29. Director-Denver Service Center (Title)

TRAVELER'S COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
Form No. DI - 1020
Form approved by Comp. Gen. U.S.
November 8, 1949

TRAVEL AUTHORIZATION

No. DSC-66-74

2. 10/15/65 (Date)

3. BUREAU OF LAND MANAGEMENT (Bureau or Office)

4. NAME Jerry P. Townsend

5. OFFICIAL STATION Las Cruces, New Mexico

6. TITLE Range Conservationist

7. ACCOUNTING OFFICE Denver, Colorado

You are authorized to travel as indicated below and to incur necessary expenses in accordance with applicable laws and regulations.

PLACES OF TRAVEL

8. FROM: Las Cruces, New Mexico

9. TO: Phoenix, Arizona; Organ Pipe Cactus National Monument, Arizona, and to various other points within the state of Arizona and return.

10. PURPOSE AND REMARKS:

Detail to perform Forage Resource Inventory in accordance with Memorandum dated October 8, 1965, from the Director.

11. PER DIEM ALLOWANCE:

$16.00 enroute to and from Organ Pipe Cactus National Monument.
13.00 while at Organ Pipe Cactus Nat'l Monument if commercial facilities are used
8.00 while at National Monument if N.P.S. (gov't) facilities are used.

12. PERIOD OF TRAVEL: Beginning on or about October 30, 1965 Ending on or about Dec 31, 1965

MODE OF TRAVEL

13. ☒ Common carrier 14. ☐ Extra fare 15. ☒ Government-owned conveyance

16. ☒ Privately owned automobile at a mileage rate of .08 cents, subject to:

(a) ☐ Administratively determined to be to the advantage of the Government
(b) ☐ A showing of advantage to the Government
(c) ☐ Not to exceed cost by common carrier, including consideration of Per Diem allowance

MISCELLANEOUS

17. ☐ Transportation immediate family

18. ☐ Other *(specify)*

19. ☐ Shipment household goods and personal effects

ESTIMATED COST

20. Transportation $

21. Per Diem

22. Other

23. TOTAL $

24. CHARGED TO: applicable appropriation

25. (Fiscal officer's signature)

26. (Requestor's signature)

27. (Title)

28. Lowell M. Puckett (Authorizing officer's signature)

29. Director-Denver Service Center (Title)

FILE COPY

ORP Files

4412.11

OCT 8 1965

Memorandum

To: SD's, Arizona, Colorado, New Mexico, Oregon, Utah

From: Director

Subject: Organ Pipe Cactus National Monument Forage Resource Inventory

In line with exchanging expertise between agencies within the Department, the National Park Service has requested the Bureau of Land Management to do a forage inventory on the above-mentioned monument.

As a result of previous conversations between you and Lowell Udy of the RPM Staff concerning the assignment of personnel from your State to assist in this inventory, the following personnel have been selected for this resource inventory work:

Mr. Bob Schultz of the Montrose District will be chief of party and his crew members will be Jerry Townsend, Las Cruces District; Rulon McKee, Safford District; Andy Parker, Lakeview District; and Blaine Lunceford, Price District.

The quality of the work and the finished product accomplished by this crew will have a direct effect on this Bureau's reputation as the agency having the expertise in the forage resource inventory field.

Please make arrangements to have the crew members report to the Arizona State Director on November 1. We anticipate the work can be completed before December 31, 1965.

Mr. Schultz as Chief of party, should plan the work so that the compilation, narrative and maps would be completed before he returns to Montrose.

The Arizona State Director will represent the Director's Office as field coordinator as well as provide the following:

1. Obtain one pickup and two jeeps from GSA Motor Pool.
2. Furnish office space and office equipment necessary for the survey crew to complete the compilation.
3. The Denver Service Center will advise the Arizona State Director of the preparation and submission of time and attendance reporting and any other administrative functions connected with the survey crew

4. Two copies of the completed narrative, compilation, and map including Mylar tracing will be sent to the Resource Program Management Staff in Washington for review prior to releasing to the NPS.
5. If the Cartographic work cannot be done at the State Office, the DSC will give this work top priority to be finished by 1/28/66.

The Denver Service Center will prepare and forward to the crew members their Travel Authorization. A request for Advance of Travel Funds should be made to the Denver Service Center referring to the Travel Authorization. Per Diem will be $16 per day enroute to and from the National Monument, and $13 per day while on the job if commercial facilities are used.

The NPS has two apartments that will be available for rental by the survey crew. The rate is approximately $15 per day period for each apartment. The crew will have to furnish their groceries and bedding and per diem will be reduced to $8 per day under this arrangement.

The Denver Service Center Range Staff will provide technical assistance upon request.

If any of the crew is considering having his family accompany him, have him contact the Arizona State Director, Attention: Riley Foreman. He will furnish the details.

Chas. H. Stoddard

cc:
Bob Schultz
Jerry Townsend
Ralon McRae
Andy Parker
Blaine Lunceford
DSC Range Staff
DSC Adm. Serv.
FM (733)
Range (712a)
DDRF 1 and 2

711:LJUDY:jed, sg 10-7-65
10-8-65

TIONAL FORM NO. 10
10-104

Y1819

UNITED STATES GOVERNMENT

Memorandum

TO : Chief, Range Management Staff, Wash. D.C. DATE: December 15, 1965

In reply refer to:
4112.14E2(D712a)

FROM : Range Study Specialist, DSC

SUBJECT: Organ Pipe Cactus National Monument Survey reviews

In response to the request from the Acting State Director, Arizona, dated November 15, 1965, for technical assistance from the DSC Range Staff. I spent several days, December 6-8, 1965, with Bob Schultz, Chief of Party for the survey. Francis Riordan and Larry Powell of the Arizona State Office, Bob Schultz, and myself had the opportunity to discuss some of the problems encountered with the survey and the management plan for the monument.

The major problem of the survey is: what consideration should be given to the annual vegetation in regards to grazing capacity of the range. Francis Riordan felt that an estimate of the average amount of forage produced by annual vegetation could be made by qualified individuals in the area, and that these figures could be incorporated into the survey write-up sheets. These figures would be a judgement factor based upon the best knowledge of the people in the BLM familiar with the Sonoran Desert type vegetation.

It was suggested by Larry Powell that we try to determine what the average grazing capacity allowed by the Phoenix District on their annual type ranges. These figures could be used for increasing the stocking numbers above what could be allowed based upon the range survey. He also suggested that a follow-up study be made to determine the amount of annual vegetation which is produced this year. Someone could clip the annuals between now and July 1, 1966. This would be back-up information for the survey. Unless the NPS gives us an increase in funds, we could not do a follow-up study.

I believe that, as technicians, the only figures that we can justify are those that are obtained from the present survey. We must realize that annual vegetation is an important part of the forage available on this range and also that it is highly variable and not consistent. The individual running livestock on the monument are operating on a year-around bases; therefore, we must base the grazing capacity on the perennial vegetation. We can state that if and when annual vegetation is produced the operators can put more stock on the range for that period of time when the annuals are there and then take the stock off or, the annual vegetation can be used to relieve the pressure on the perennial vegetation.

On December 2, 1965, I discussed with Dr. E. M. Schmutz of the Range Staff at the University of Arizona and Berry Freeman, Range Extension Specialist for Arizona, the vegetation type of the Organ Pipe National Monument. I asked if there was any information on the amount (weight) of annual forage produced in Southwestern Arizona after a rain storm. Dr. Schmutz stated that he did not know of any available information but that Senate Document 199 (Western Ranges), page 97, indicated that a stocking rate of about 3 or 4 animals per section per year would be the best on heavily used ranges in that area. Dr. Schmutz felt that because of the sporadic periods of rainfall annual vegetation should not be considered in setting a stocking rate for the type of range found on the monument.

He felt that the Santa Rita Station would provide a bases for establishing a forage acre requirement figure for the Organ Pipe Survey because they have known stocking rates for a given area on the station. Dr. Schmutz had the opinion that the 2 inch difference in rainfall between the station and the monument would be compensated for by the increased density found on the station.

I suggested to Bob Schultz that he have some of the crew members run a survey on one of the pastures at Santa Rita Station; and, if the data is applicable, use it for determining a forage acre requirement figure. I realize that the vegetation and precipitation are different, but I believe this is the best available information which can be obtained by the Bureau in this area.

I discussed with Bob the PUF (proper use factor) of the shrubs found in the area. Bob was concerned about the use of a lower PUF figure on shrubs when the manual (4412.11A) stated that up to 50 or 60 percent could be taken from some shrubs. I suggested that he leave the PUF at the lower rate; because, if we allowed 50 to 60 percent use in the shrubs, we would be over utilizing other types of vegetation. We must key on the perennial vegetation in order to preserve the Sonora Desert vegetation in a natural condition. (See Assistant Director's-Resource Management Memorandum, 11/23/65, 4412.11(711) to SD Arizona.)

I was asked to provide information as to how far livestock can travel to water or what is the service area of a water facility under proper management. We discussed that maybe 4 to 5 miles would be about proper in the desert area. However, the manual (4112.14B2) states that 2½ miles is the service area for any watering facility and that 5 miles should be the maximum distance between watering facilities.

A meeting was held at the monument with the following people in attendance:

NPS Personnel

Foy Young, Supervisor of the Monument
Duane Graf, Chief Ranger
Thomas Eba and Eslie H. Lampiet, Staff Rangers from the Santa Fe Regional Office

BLM Personnel

L. Christian Vosler, DSC
Francis Riordan, ASO
Larry Powell, ASO
Bob Schultz, Chief of Party

We discussed the survey, the general range condition of the monument, and the purposed management plan. The Staff Rangers from Santa Fe were not aware that a management plan was to be developed.

Under the objectives and limitations in the agreement of October 6, 1965, and the memorandum of November 23, 1965, preparation of a management plan becomes extremely difficult. Bob Schultz proposed that the livestock could be managed by closing off water during certain periods of the year to allow resting of the range. The Park Supervisor stated that they (NPS) could not manage livestock by water control because it would concentrate the livestock in different areas and this would conflict the people use. Therefore, it appears that a sound range management plan cannot be developed but that the plan for the monument would be to bring the stocking rate down to the grazing capacity as determined by the BLM survey, and a strong enforcement policy as to the number of stock by the NPS. Cattle use areas can be changed by salting and the use of range riders to move livestock from area to area as it becomes overused.

A discussion was held between Francis Riordan, Bob Schultz and myself about the mapping requirement for the survey. The Range survey manual (4412.11A(5b)) states that compilation will be done from a 2 inch to the mile scale township plots. It was our opinion there was no need for this type of map and that the compilation could be completed from a 1 inch to the mile base map. Much of the monument is unsurveyed so a township plot would be of little value.

I was impressed with the technical ability of the Organ Pipe Range Survey crew. I am confident that an excellent job of surveying has been done. Bob Schultz and his crew should be commended for an excellent job.

He has kept the morale of the crew high even after 6 weeks away from home.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

4412.11 (711)

L 3019
ORR 11/24
~~Eich~~ ~~Bertsch~~ ~~Allen~~ KB
ORP file

NOV 23 1965

Memorandum

To: SD-Arizona

From: Assistant Director - Resource Management

Subject: Management Plan - Organ Pipe Cactus National Monument

The resource survey narrative (4412.11A) and the Range Management Plan (4112.15B) should be a consolidated report providing information on the vegetative resource together with a suggested grazing management plan for the monument.

The objectives and limitations in the agreement of October 6, 1965 should be fully considered in preparing the management plan. Factors which limit grazing alternatives include: (1) Future grazing use should not be extended into areas not presently used, (2) additional livestock use facilitating projects will not be provided as a means of improving present use patterns, and (3) objectives of the monument are the preservation of the outstanding forms of Sonoran desert vegetation, and native species of wildlife.

The development of the management plan should be coordinated with the Superintendent of the monument.

Eugene T. Gumwalt

cc:
NPS
Denver Service Center
Range (712a)
DDRF 1 & 2
RPM

711:WGLeavell:mg 11-23-64

ORP

IN REPLY REFER TO:

4412.11 (711)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240

RECEIVED
NATIONAL PARK SERVICE
WASHINGTON OFFICE
MAR 7 8 45 PM '66

Y2623

MAR 4 1966

~~OR~~ HLB 3/7
~~ORP~~ KB

Memorandum

To: Director, National Park Service

From: Director, Bureau of Land Management

Subject: Forage Resource Inventory, Organ Pipe Cactus National Monument

As agreed by memo of October 8, 1965, the Bureau of Land Management is providing three copies of a report on a forage resource inventory of the Monument including field maps showing vegetative types, field writeup sheets, and summaries showing grazing capacities by vegetative type. The narrative includes a suggested grazing management plan for the Monument.

One copy is enclosed with this memo; one copy is being handed to Mr. H. L. Bill, NPS, and one copy remains in our Arizona State Office. The report at Phoenix will provide that office with a reference copy. Please advise the disposition of the aerial photos, picture negatives, and remaining materials.

The Mylar tracings of the vegetative type maps have not yet arrived. These will be provided when received. The forage requirement study writeup sheets have been received and are attached to the enclosed report.

The reimbursable account has been closed. An SF-1081 will be submitted shortly.

We are pleased to have been able to provide the forage inventory report of the Monument. Questions concerning the technical aspects may be directed to our Chief, Range Management Staff (712a).

John O Crow

Acting Associate Director

UNITED STATES
DEPARTMENT OF THE INTERIOR
ASSISTANT SECRETARY FOR FISH AND WILDLIFE
3/15/66 WASHINGTON

Thanks. Spend —
Jim

Mr. Bill - Room 1219

☐ Information

☐ Per our Conversation

☐ Comment

☐ Action as Appropriate

☐ Prepare Reply for _____ Sig.

☐ As Requested

☐ File

☐ Return

☐ Forward

☐ See me

Remarks: Please return this to the person you borrowed it from.

Incidentally, it throws a bright light on the cattle problem at Organ Pipe

Charles

Stanley

INT.-DUP. SEC., WASH., D.C. M75090-66

Date 15 March 66

FROM: Assistant Secretary (F&W&P)

TO: 1. Jim Meyers
2.
3.
4.

FOR:
- ☐ Approval
- ☐ Information
- ☐ Per our Conversation
- ☐ Comment
- ☐ Action as Appropriate
- ☐ Prepare Reply for _____ Sig.
- ☐ As Requested
- ☐ File
- ☐ Return
- ☐ Forward
- ☐ See me

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Charles

Pawley

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Date 11 March 66

FROM: Assistant Secretary (F&W&P)

TO: 1. ~~Jim Meyers~~
2.
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FOR:
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- ☐ Comment
- ☐ Action as Appropriate
- ☐ Prepare Reply for _____ Sig.
- ☐ As Requested
- ☐ File
- ☐ Return
- ☐ Forward
- ☐ See me

Remarks: I would like to see the BLM forage study on Organ Pipe Nat. Monument which, I understand, is now available in the debut.

Stan

INT.-DUP. SEC., WASH., D.C. M75090-66

T-1 - EXTREME SE. CORNER ✓

T-2 CREOSOTE ET MES

T-7 TO ALA WAY PASS

T-4 - ALA WA PASS ✓

T-3 ATRIPLEX ✓

T 5 SE of CEMENT TANK ✓

T-6 SWEETWATER PASS ✓

T-8 - CREO & PALO VERDE ✓

T-9 CEMI to HIGHWAY & NORTH TO ANDY

T-10 HIGHWAY → WEST

T-11 W of LUKEVILLE in ATPO

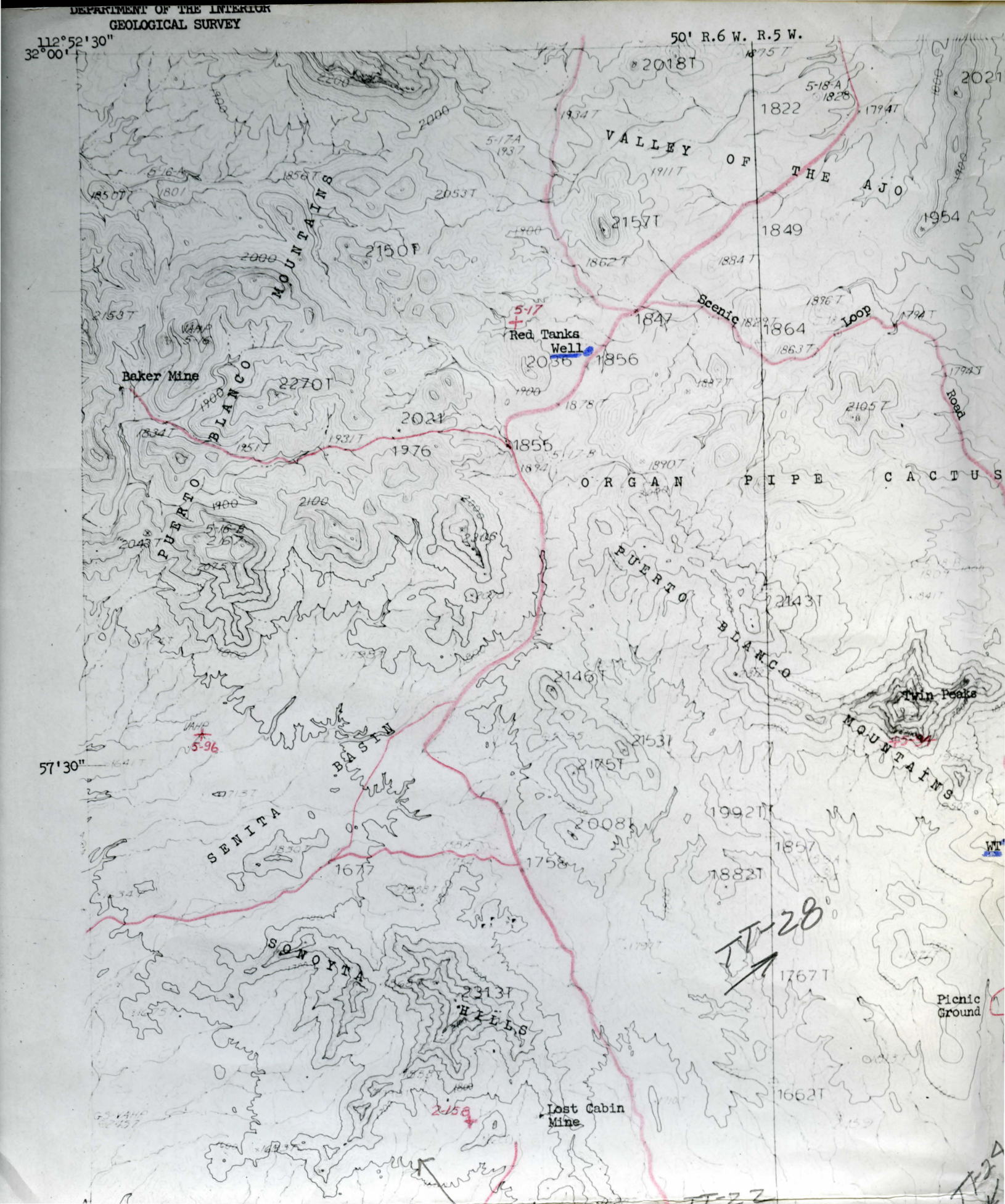
T-12 ~~ALTO - CREOSOTE CEMI~~

33

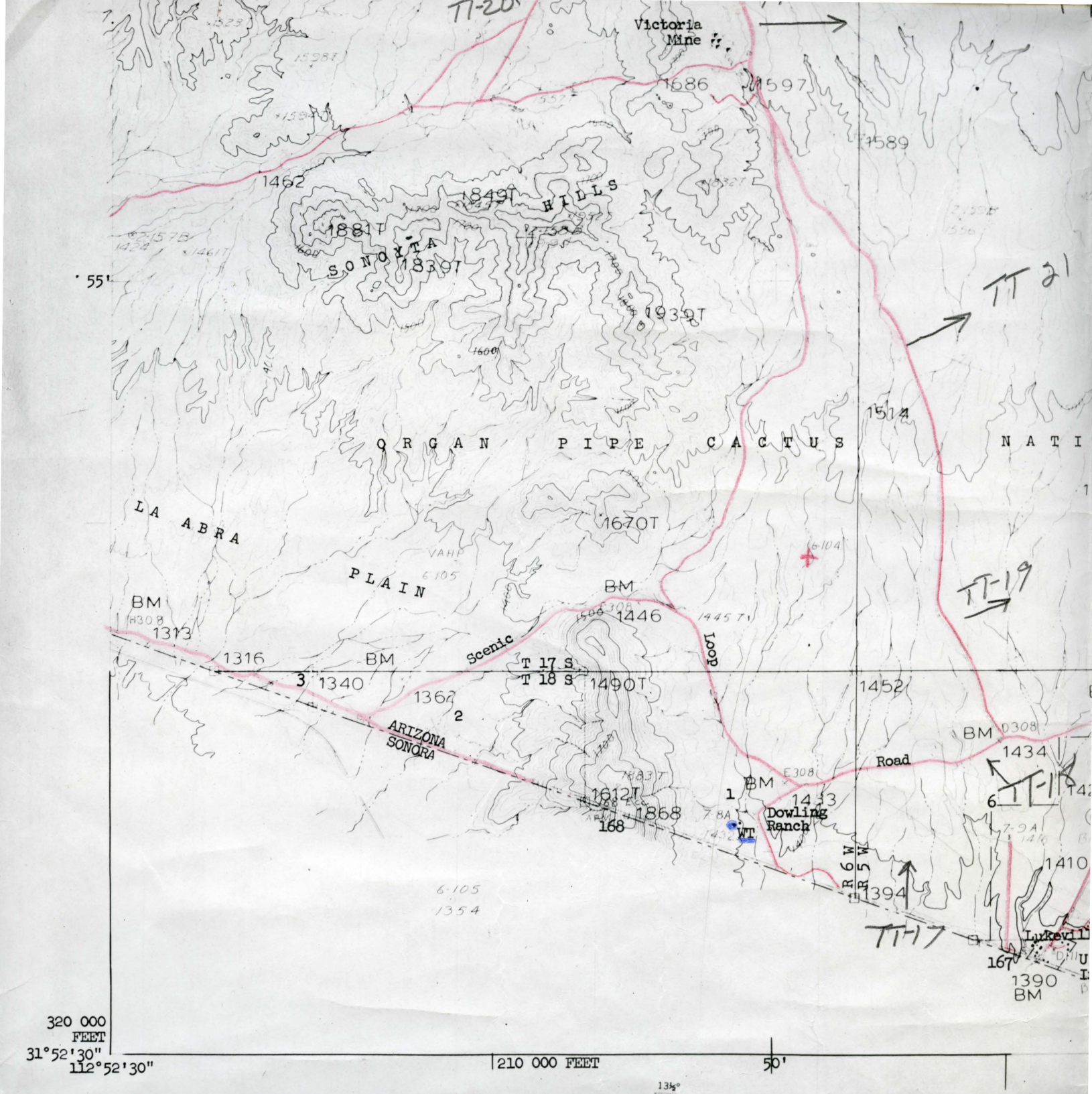
6>

55

7
14
25
46
46


DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
112°52'30"
32°00'
57'30"
50' R.6 W. R.5 W.
VALLEY OF THE AJO
ORGAN PIPE CACTUS
PUERTO BLANCO MOUNTAINS
PUERTO BLANCO
Baker Mine
Red Tanks Well
Scenic Loop Road
Twin Peaks
MOUNTAINS
SENITA BASIN
SONOYTA HILLS
Lost Cabin Mine
Picnic Ground
5-17
5-96
2-158
2018T
2157T
2150T
2270T
2036
2021
1976
2143T
2146T
2153T
2175T
2008T
1992T
2313T
1882T
1767T
1662T
1677
1758
1822
1849
1847
1864
1856
1855
1954
2021

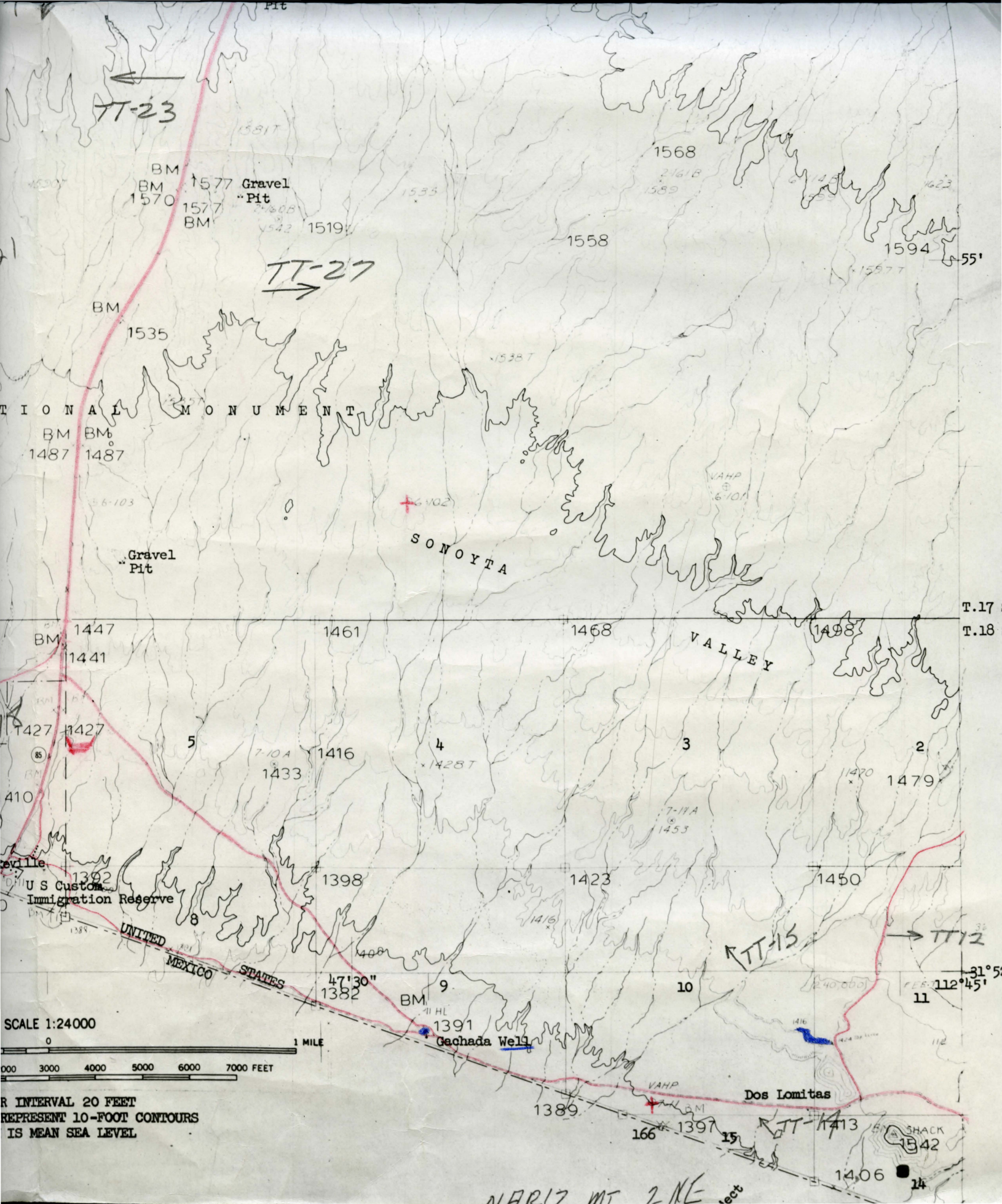
47'30"
240 000 FEET
112°45'
32°00
360 000 FEET
57'30"
To be pu
2027T
1791T
1790T
1784T
1782
Gravel Pit
1970T
1950T
1996
2057T
1930T
1786
BM
2159T
2229T
5-19+
5-21+
VAHP
Drive One Way
1804T
1782T
1736T
1767T
1826T
2298T
N A T I O N A L M O N U M E N T
1738T
1795T
1710
1722
BM
Ajo Mountain
Drive One Way
2321T
2082T
Gravel Pit
1707
1677
BM
5-22+
1867T
2027T
Organ Pipe Cactus Nat Mon
Visitors Center And Headquarters
TT16
WT
Well
1669
BM
1661
1666
1670
WT
SONOYTA
VALLEY
Campground
BM
1639
BM
1642
+2-160
BM
1618
Gravel Pit



Mapped by Pacific Area, Geological Survey

This is an unedited copy of an original manuscript including field additions made in 1963

12" X 20"


TT-23
TT-27
BM 1577 Gravel Pit
BM 1570
1577 BM
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1568
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1594
55'
BM 1535
T I O N A L M O N U M E N T
BM 1487 BM 1487
Gravel Pit
SONOYTA
VALLEY
T.17
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BM 1447
1441
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5
4
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1392
U S Custom Immigration Reserve
UNITED STATES
MEXICO
1398
1423
1450
8
9
10
11
TT-15
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47'30"
1382
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Gachada Well
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SCALE 1:24000
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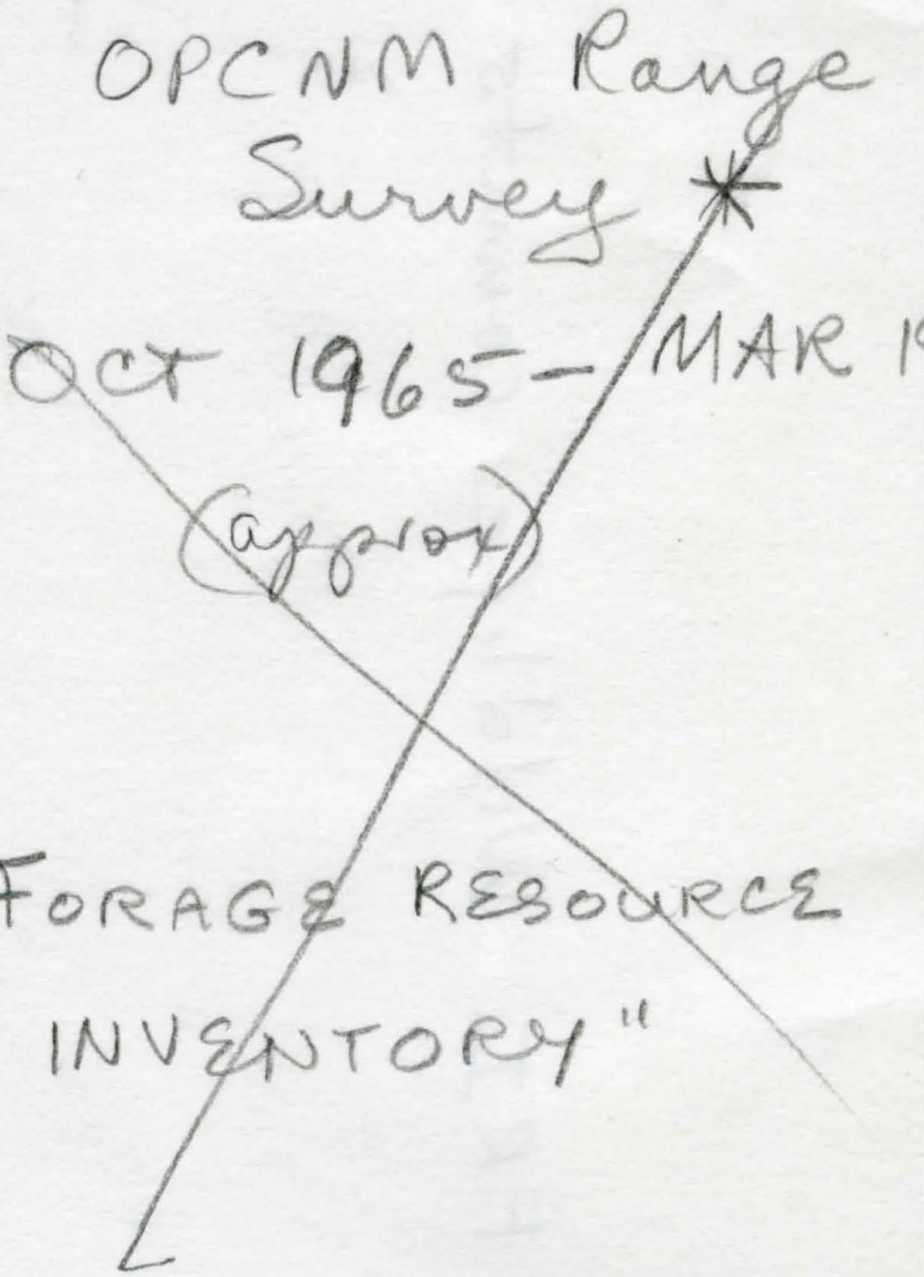
000 3000 4000 5000 6000 7000 FEET
R INTERVAL 20 FEET
REPRESENT 10-FOOT CONTOURS
IS MEAN SEA LEVEL
VAHP
Dos Lomitas
1389
1397
166
15
TT-14
1413
SHACK
1342
1406
14

1965 F.R.I. Wildlife count


OPCNM Range
Survey
OCT 1965 - MAR 19
(approx)
"FORAGE RESOURCE
INVENTORY"

Andy

deer

7 doe

7 buck

~~4~~ juveniles

Peccary

X 8 14

14
9
7
B/15

deer and pigs in good shape.

~~Terry~~

1 Deer

10 Javalinas

B/JWF

3 does

2 fawns

4 buck

9 total

Ed

20 Pronghorn

7 DD

10 Burros

6 Javelinas

Total

35 Deer

30 Javelinas

20 Pronghorn

8 Burros

Total Wildlife for Helicopter Survey - 5 hrs. & 35 min.

1 - Big Horn Sheep
23 - Deer
25 - Javelina
4 - Burros
8 - Coyotes.

Maybe repeats
4 deer
9 Javelina

Combined Total Helicopter + Ground Counts
58 Mule Deer
55 Javelinas
14 Burros
20 Pronghorns
1 Big Horn Sheep.

- Wildlife -

Although no organized wildlife surveys were conducted during the range survey, each crew member was instructed to record all wildlife he observed. In addition, all wildlife observed during the helicopter flights were recorded. Because of the limited time and the multi-purpose design of the helicopter flight only a small percent of the wildlife habitat was surveyed.

The results of the ground and helicopter counts were:

Ground counts -

35 Mule Deer
30 Javelinds
20 Sonoran pronghorn
10 Burros

Helicopter counts - 5 hours flying time

1 Big Horn Sheep
23 Mule Deer
25 Javelind
4 Burros

Comparison of the individual counts with the helicopter count showed that only a few of the animals observed were

repeats. For example, in an area where the crew member counted only one mule deer from the ground, 14 were counted from the helicopter.

The total number of animals observed in both the helicopter flights and the ground counts was:

58 Mule Deer
55 Javelinas
12 Burros
20 Sonoran pronghorn
1 Big Horn Sheep.

Two helicopter flights were conducted by the National Park Service in the past. These flights were conducted primarily to determine the number of livestock using the Monument, but wildlife species observed were recorded. The results were:

4/13/65 - 9 hrs flying time
8 Mule deer
2 Javelinas
8 Burros

3/10/62 - 3/17/62 No flying time given

36 Mule Deer
63 Javelinas
2 Big Horn Sheep
1 Burro.

The National Park Service estimates the total number of wildlife species within the monument to be:

15 Sonoran pronghorn
50 Big Horn Sheep
50 Mule Deer
18 White Tail

The Park Service mule deer estimate appears to be extremely low in view of the number of animals observed and the small percent of deer habitat surveyed. A more realistic figure would be 500. No whitetail deer were observed by crew members, and, as the East side of the monument is the extreme westerly limit of their range, perhaps 18 is a fairly accurate estimate.

The 20 Sonoran pronghorn observed

included no repeats. One crew member observed all the pronghorn in two herds of 11 and Nine.

The Big Horn sheep seem to be concentrated in the older volcanic formation of the Ajo Mountains, The Kino Peak area, and Pinkly peaks and Very little time were spent in surveying These areas during the Helicopter survey, Therefore little information concerning the Big Horn population is available. The estimate of 50 seem a little high in view of the small amount of Suitable habitat available.

There are a considerable number of Burros in the West side of the Monument. Burro sign is particularly heavy in the Quitobaquito hills.

Heavy use on Franseria dumosa is evident in burro concentration areas, while in other areas use on it is light. Also, burros appear to utilize Encelia farinosa to a much greater extent than cattle.

There appears to be little competition between the wildlife now present on the monument and

livestock. All wildlife observed appeared to be in excellent condition. Undoubtedly, this is the result of wildlife exhibiting areas inaccessible to livestock, and utilizing vegetation unpalitable to livestock.

The area of greatest competition is the east side of the monument where livestock is severely overgrazing Tojoba which is an extremely important deer browse.

Count 5/28/1942

Bates well	673
Alamo	300
Bonito & Rincon	200
Dowling	200
Gray well	200
Walls well	100
	1673

do not include this years calves

227 steers sold as cows

1943 Drought lost 700 head summer & fall

Papagos lost 7,000 head

1955 - 419 head shipped all types
1959 - 319 head " " "
1960 - 289 " " " "
1961 - 473 " " " "
1962 407 " " " "

Helicopter Survey 3/10/62 - 3/17/62

Cattle	884
Horses	12
Burro	1
Peccary	63
Mule Deer	36
Big horn	2
Coyotes	6

1963 - 484 head shipped

1964 - No roundup due to Market + Conditions

1965 - 777 head shipped 4/21 - 8/19/65

Steers -	62%	482
Cows -	13%	101
Heifers -	8%	62
Bulls -	14%	109
Calves -	3%	23

Average weights - 1965 roundups

591 lbs Steers
750 Cows
467 Bulls
432 Heifers
284 calves

Steer	310	L	366 - 767 H
cow ~~Bull~~	325		705 - 827
Bull ~~Heif~~	- 515		380 - 570
Heif	- 285		403 - 452
calf	- 230		230 - 310

Cattle Counts

5/28/42 - OPCNM Supervisor reports
1,673 animals less 227 sold
or 1,446 left on mon.

Oct 1964 - Regional Director reports
300-to 500 animals in excess
of the max allowable of
1,050 head of cattle

August 21, 1965 - 777 animals sold
62% Steers
13% Cows
14% Bulls
3% Calves
8% Heifers

Count estimated before 4/21/65 - 1,477 cattle

Helicopter Count
by Parker

5 hd east of Wild Horse Tk.

21 hd south of Walls Well

15 hd N.E corner just below boundry cattle guard near tank

5 hd so of Armenta pl.

3 hd north of Pinkly Pk.

3 hog spotted

Helicopter 12/13

Poso Salado – 1 horse
1 cow

Hooker Well – 13 cattle
Quito Baguito 3 cattle
Dronier Valley – 57 cattle 2 horses
Poso Nuevo – 14 cattle

Total 88 cattle
3 horses

East Side of BATES Mtn
and North to Bates Well
min. of 100 Head.

12-12-65 Livestock Count SE Area (Townsend)

Cows	Yearling	Calves	—
2		2	1 mile NE Lukeville
3		2	1½" East "
4		1	Cuchuda Well
5		2	NW 1¼ mi. Blankenship Well
2		1	" ¾ " " "
1		5	Blankenship Well
	3		" "
8		2	N of Ali Wau Pass
5			West 1½ miles Ali Wau Pass
3		1	" 2 " " " "
5		3	" " " " "
			2½ " " " "
1			3
5	1	2	Area Around Sweetwater Pass
18		2	Along Ajo mtn. Drive
4			South of Hodges. on U.S. 85
66	4	23	Totals

J P Townsend

Helicopter Count 1965

Bates Area	–	241	cattle
Poso Nuevo	–	35	"
SW Corner	–	68	"
SE Area	–	175	"
Alamo Area	–	~~212~~	37
Walls Well	–		12
Amanda	–		1

60
244
276
580

225
103
241
564
44
610

Count – 580 6/15/65
Unpaid – 650
25% Natural – 145
1375

1 min flying
9 hrs

580 cows
98 calves
7 horses
8 Burro
8 Mule Deer
7 Coyote
2 Javelina

Grazing Capacity

A. Compilation Procedures. Vegetative type lines were transfered from aerial photographs to a one inch/mile scale planimetric map by the use of a vertical reflecting projector. ~~Vegetative type areas were then Acreage~~ of the vegetative types ~~in line~~ ~~then computed by~~ were planimetered to determine acreage. The acreage of each survey writeup (vegetative type) ~~was~~ was multiplied by the forage acre factor which ~~then equalled~~ equaled the forage acres for each respective writeup. Forage acres divided by the forage acre requirement equals the number of animal unit months (AUMs).

This data ~~was~~ was then ~~placed of the type~~ described on the forage inventory maps as follows

Vegetative type No. Type writeup No

acres

AUMs

Within small vegetative types, the area was not large enough to insert the above information. In these situations, only the type writeup number is given and the acreage and aums are incorporated into ~~the same closest larger~~ an adjacent vegetative type with the same writeup number.

B. ~~Result~~ Summary of ~~Grazing~~ Capacity

No range can be properly grazed if distances between water sources are too ~~great~~. The Organ Pipe Cactus National Monument is not adequately watered for ~~livest~~ cattle to make proper use over the entire area. The grazing capacity must be determined within a reasonable radius of water.

Stoddard and Smith in their book on Range Management recommends:

"...cattle should not be forced to go more than 1/2 mile for water, though in more level areas this can be measurably increased. Even in flat country they should not be expected to travel more than 2-1/2 miles. This would require water holes 1 to 5 miles apart and one source might serve 1 to 20 sections of land, depending upon the topography..."

Hudson G. Reynolds, author of Managing Grass-Shrub Cattle Ranges in the Southwest (Agriculture Handbook No. 162) recommends:

"As a minimum requirement, fairly permanent and dependable watering places should be 4 to 5 miles apart on flat and undulating land, 3 miles on rolling ranges, and 1 to 2 miles ~~with~~ where the terrain is rough."

The Bureau of Land Management Manual sets out recommendations for service areas of water as follows:

places as cattle." In excessively rough and steep country cattle should not be forced to travel more than ½ mile to water (if it is determined that this type range is usable at all by cattle), while in flat country they should not be expected to travel more than 2½ to 3 miles." For best

~~The grazing capacity~~

The service area of waters on the Monument is determined to be three miles. The service areas includes all permanent waters, water haul sites and ~~D~~ Wild Horse Tank. Natural ~~P~~potholes (Tenajas) and cement tank do not provide either ~~sufficient~~ or dependable water.

~~A Summary of~~ the grazing capacity by vegetative type for the Organ Pipe Cactus National Monument is as follows:

Vegetative Types	Acres			AUMs		
	Inside Service Area	Outside Service Area	Total	Inside Service Area	Outside Service Area	Total
7 Waste	28,177	10,242	38,419	0	0	0
11 Creosote bush	50,834	28,145	78,979	1,088.9	528.1	1617.0
12 Mesquite	4272	6,784	11,056	66.7	39.2	105.9
13 Saltbush	4,595	0	4,595	400.9	0	400.9
16 Desert Shrub	110,783	87,168	197,951	2,214.2	2053.0	4,267.2
Total	198,661	132,346	331,000	3,770.7	2,620.3	6,391.0
				~~314 (cyl)~~	~~(218 cyl)~~	~~(532 cyl)~~
	9	9	9	9	8	8

b Grazing Capacity by land status ~~(within Service area of water~~

Status	Acres	AUMs
Armenta Property	320	4
Walls Well	240	8
Robert Gray (Dowling well)	158	6
State Land Sec 2	640	10
State Land Sec 36	640	2
Federal	329,002	6,361
Total	33,000	6391

~~(outside service area of water~~
~~inside service area of water~~

From the above chart, the grazing capacity of ~~cattle~~ yearlong ~~are~~ is:

Total grazable area -	532	cattle yearlong
less area outside of service area of water -	218	cattle yearlong
~~Number of cattle~~ Grazing capacity within service area of water	314	cattle yearlong

~~the~~ above

The grazing capacity is ~~based~~ based upon perennial vegetation. Annual vegetation was not present at the time of forage inventory and therefore not included in forage survey writeups. Even if annual vegetation was present at the time of inventory, the production ~~of~~ varies from year to year depending upon the amount and distribution of rainfall. The ~~amount of~~ production of annual vegetation cannot be predicted because of the wide variation in rainfall on desert ranges.

While it may be recognized that annual vegetation is part of ~~for~~ the forage available, it can only be ~~used~~ utilized during certain times of the year. ~~This then makes it necessary for a livestock operator to be flexible in his operation.~~ The stocking rate cannot ~~be based upon~~ include annual production and incorporated into a yearlong grazing

capacity. ~~Cattle~~ Cattle ~~should be put on~~ When abundant annual forage is produced, ~~the~~ cattle can then be increased, then taken off as annuals disappear

Management Plan

A. Objectives - The objectives of the National Park Service in the management of the OPCNM is to preserve the outstanding forms of Sonoran desert vegetation and native species of wildlife. ~~Factors which limit the management of cattle when considering these objectives as outlined in Directors agreement of Oct 8, 1965 are: (1) Factors and which limit Livestock management on the Monument are: (1) additional livestock facilitating projects will not be provided~~

The basis for management of cattle grazing in the Monument as outlined in the ~~Dec~~ Directors agreement of Oct. 8, 1965 exclude: (1) reseeding the range, (2) manipulation of vegetation (3) ~~Development~~ of additional livestock watering

facilities.

It has become evident that the objectives of a livestock management plan on the monument would be to control those changes in the native environment, to the fullest extent possible if grazing is to continue, which would allow the biotic communities to maintain their natural rhythms. The ~~forage resource~~ soil and plant resources should provide a sustained high level production.

B. Action Recommended

1. Grazing Capacity - The stocking rate based upon the present watering facilities and perennial vegetation should be reduced to 314 cattle yearlong. The amount of available Short Lived annual range forage must be judged ~~annually and stocked accordingly~~ that will not overutilize the perennial vegetation.

and cattle numbers increased accordingly

The rate of stocking must be so that the perennial vegetation will not be overutilized

this will demand flexibility by the ~~operator~~ Gray partnership in cattle numbers in order to adjust to fluctuation in rainfall

2. Grazing Systems - the Gray partnership is a cow-calf operation and runs yearlong on the range. Therefore, the possibility of seasonal grazing over the entire ~~ranch~~ Monument is disregarded due to economics and stability. However, ~~seasonal grazing use over~~ deferred and rotational grazing use should not be overlooked. Some plants, particularly perennial grasses benefit from seasonal use. By deferment during the ~~plants~~ growing ~~cycle~~ season, plant ~~growing cycle~~, ~~would~~ ~~add improve~~ would improve vigor and productivity ~~to the depleted conditions that exist of the better watered range.~~ ~~Cattle could be managed by closing off waters~~ to allow deferment

on the Monument would

Deferred Rotation grazing involves dividing the range into several areas and rotating grazing use among these areas so that all are used during the year, but with one area deferred each year until seed of the important forage plants are mature. The change in rotation order should not be sooner than two years.

Cattle could be managed by closing off waters to allow deferment of certain segments of the range. Under such a system, grazing on one part of the monument might be deferred at the onset of the growing season and then by rotation other areas successively deferred.

However, the above system would tend to concentrate cattle in certain areas. This may conflict with visitor use and vehicle traffic on State Highway 85. Also the moving of cattle under deferred rotational grazing and the practicality of closing water may not be feasible when considering the operation of the Gray Partnership. The livestock range user plays a key role in the development and application of a management plan.

The number of ~~animal~~ cattle using the ~~area~~ service area around water must not exceed the grazing capacity within that area. Though misuse is inevitable around water, the damaged should be held to a small percentage of the service area.

Thus, the alternative system of grazing would be to distribe the cattle over the service areas ~~with~~ for yearlong grazing.

The number of cattle using the service area around water must not exceed the grazing capacity within that area. Though misuse is inevitable around water, the damage should be held to a small percentage of the service area.

An alternative system of grazing would be to distribute cattle over the service areas for yearlong grazing. Under this system it is difficult to maintain the forage or accomplish natural revegetation because the system does not consider growth requirements of the vegetation

As a guide for either of the above systems, the grazing capacity of the perennial vegetation in certain areas of the Monument are shown as follows:

Area	AUMs	CYL
Hocker Well	120	10
Aguajita-Salt Well	492	41
Bonita Well	264	22
Paso Nuvo North to Water Haul	432	36
Water Haul by Jose Juan Tank	144	12
Palo Verde Camps	96	8
Bates Well	96	8

Area	AU/MS	CYL
Armenta Water Haul	147	12
Walls Well west to Water Haul	516	43
Alamo Well West to Water Haul and south to Wildhorse Tank	744	62
Sackado & Blankinship Wells	336	28
Dowling Well	144	12
Monument Campground Water	240	20
Total	3771	314

Management Practices

3. ~~Proper Distribution of Cattle~~ -

a) Salting. The placement of salt away from water can extend the areas of proper utilization. Also salting away from water can reduce the degree of utilization near water. Salt grounds should be moved periodically to prevent damage to the vegetation by trampling.

~~b) The placement of supple~~ tr

b) Supplementing. Supplements such as ~~fattened~~ cotton seed cake or salt-meal ~~cake~~ can be used to draw animals into lightly used areas or aid in obtaining more even utilization. Supplementing should only add to the forage and should not be used to increase cattle numbers over the available native range forage.

Care should also be used in not feeding too much supplement because it may reduce the natural tendency for cattle to seek natural forage.

4. Range Utilization Checks. Uniform distribution of cattle is not easy to obtain. Annual Survey of the range is needed to to determine whether the service areas of water is being properly utilized. Utilization checks are also needed to determine if it is necessary to shift cattle from one area to another.) ~~Utilization checks should be made at least twice annually.~~ Once before new growth starts and during mid dormant season. Proper use ~~Factors~~ are given in the appendix.

Problem areas may require more than one check a year

5. Range Use Supervision - Periodic inspections should be made for compliance with permitted cattle numbers, salting requirements, availability of water, especially the water haul sites, and ~~other permit provisions~~.

Full compliance with the annual roundup requirement. [redacted]

Proper use factors

Aydro	Andropogon sp	
Arte	Aristida ternipes	Spider grass
Arist	Aristida sp	Three awn
Boro	Bouteloua rothrockii	Rothrock grama
Bocu	Bouteloua curtipendula	side oats grama
Heco	Heteropogon contortus	Tangle head
Hibe	Hilaria belangeri	curley mesquite
Hiri	Hilaria rigida	Big galleta
Mupo	Muhlenbergia porteri	Bush muhly
Trca	Trichachne californica	Arizona cotton top
Trpu	Tridens pulchellus	Fluffgrass

Shrubs

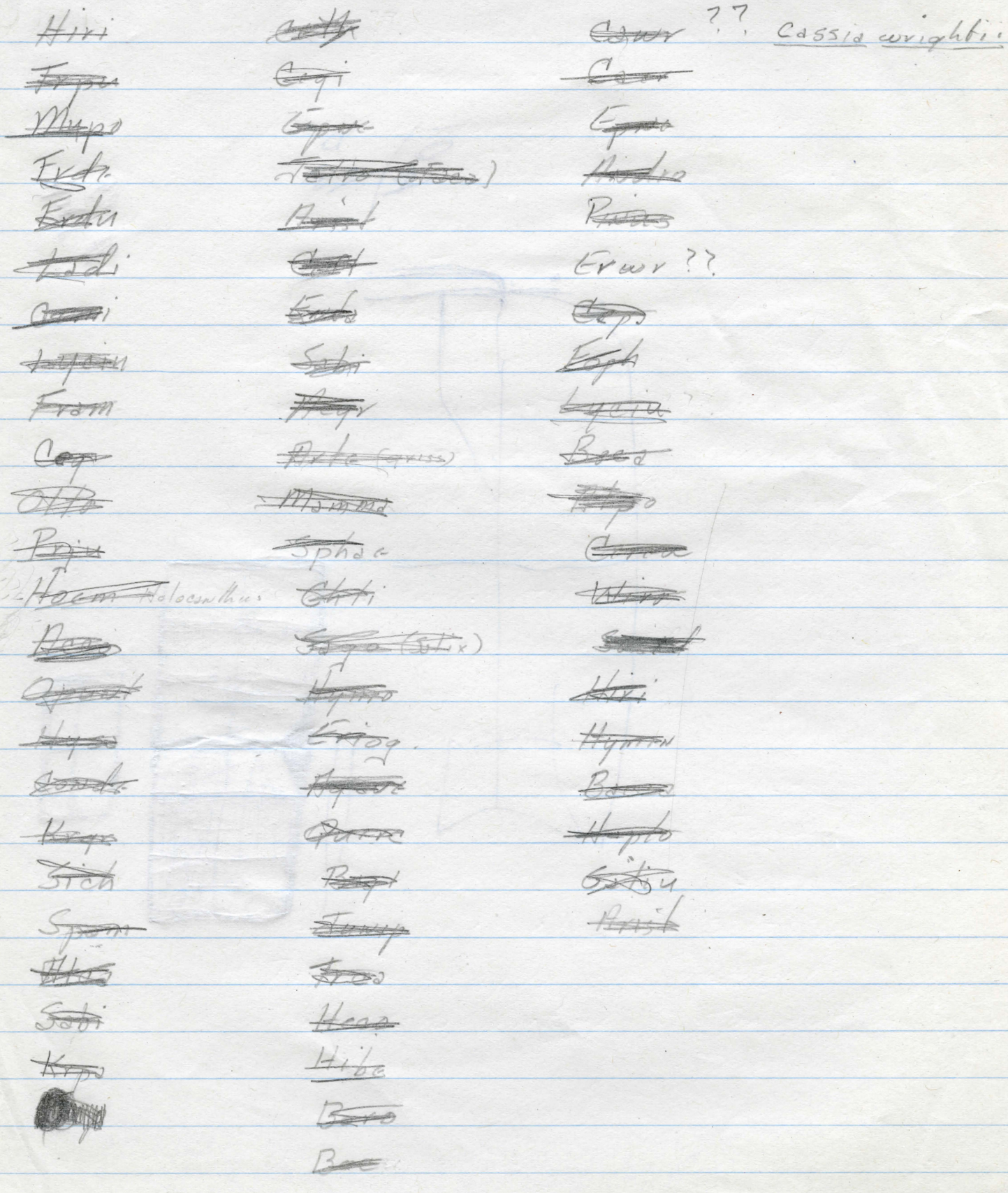
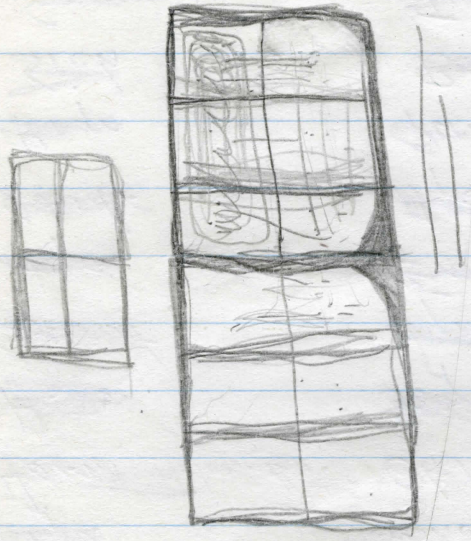
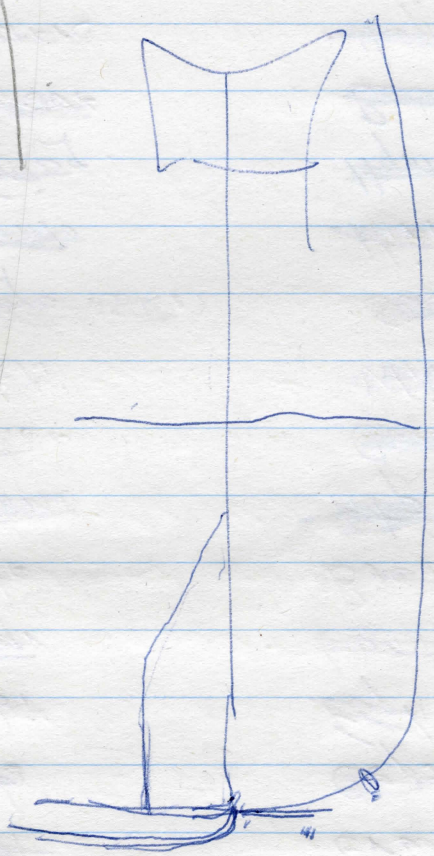
Acco	Acacia constricta	White thorn
Acgr	Acacia greggii	Catclaw
Agave	Agave sp.	
Atca	Atriplex canescens	Fourwing Saltbush
Atpo	Atriplex polycarpa	Desert Saltbush
Bagl	Baccharis glutinosa	Seep willow
Bacca	Baccharis sp.	
Beca	Beloperone californica	Desert honeysuckle
Caer	Calliandra eriophylla	False mesquite
Cagi (Cegi)	Carnegiea gigantea	Saguaro
Cefl	Cercidium floridum	Blue Palo verde
Cemi	Cercidium microphyllum	Little leaf palo verde
Ceth	Cereus thurberi	Organ pipe cactus

Cerus	Cereus sp.	ribbed cactus
Celti	Celtis pallida	Desert hackberry
Chpi	Chilopsis linearis	Desert Willow
Condo	Condalea sp	Gray Thorn
Euto	Encelia farinosa	Brittle bush
Epne	Ephedra nevadensis	Nevada joint fir
Foph	Foresteria phyllanthoides	Wild Olive
Fosp	Fouquieria splendens	Ocotillo
Fram	Franseria ambrosioides	Sandwash Bursage
Frdu	Franseria deltoidea	Bursage
Frdu	Franseria dumosa	White Bursage
Hoem	Holacantha emoryi	Crucifixion Thorn
Haplo	Hoplopappus sp.	
Hyso	Hymenoclea salsola	Cheese brush
Hymen	Hymenoclea sp.	
Hymo	Hymenoclea monogyra	Burro brush
Jatro (Jaco)	Jatropha	Limber bush
Junip	Juniperus sp.	Juniper
Krgr	Krameria grayi	White ratany
Krpa	Krameria parvifolia	Range ratany
Ladi	Larrea divaricata	Creosote bush
Lyciu	Lycium sp.	
Mammi	Mammillaria sp	
Olte	Olneya tesota	Ironwood
Opunt	Opuntia sp	Jointed cactus
Pinus	Pinus sp.	Pine

Prju	Prosopis juliflora	Mesquite
Querc	Quercus sp.	Oak
Sago (Salix)	Salix Goodingii	Gooding willow
Sabi	Sapium biloculare	Yerba-de-flecha
Sich	Simmodsia chinensis	Jojoba
Suaed	Suaeda sp.	Seepweed

Forbs

Eriog	Eriogonum sp.	Buckwheat
Gal	Galium sp.	Bedstraw
Spsm (Spha)	Sphaeralcea ambigua	Desert mallow
Wisp	Wislizenia refracta	Jackass clover.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Cassia wrightii
Sphaer
Holacanthus