



Hunt Institute for Botanical Documentation  
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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Requisition No.  
**Critchfield 8/16/77**

Appropriation and or Project  
**702/311-01-20-0120-8**

**PURCHASE ORDER**  
U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
**P.O. Box 245**  
**Berkeley, Calif. 94701**

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

Order No.  
**1191-PSW-77**

Date  
**9/6/77**

To  
**Mr. Jack Reveal**  
**3843 Ingraham Street, Apt. 309**  
**San Diego, CA 92109**

Consignee and Destination  
**S U.S. Forest Service**  
**H Attn: Dr. W. Critchfield**  
**I P.O. Box 245**  
**P Berkeley, CA 94701**  
**T**  
**O**

Invitation No. Contract No. Time for Delivery Discount Terms

F.O.B. Point Destination Ship Via Gov't. B/L No.

Item No.	Articles or Services	Quantity	Unit	Unit Price	Amount
1.	<p>This order is to cover preparation of an ecological survey of the Cuyamaca cypress candidate Research Natural Areas on the Cleveland NF. It will include a general ecological description of the area, a map delineating gross vegetation types, and the approximate acreage of the vegetation types. For representative stands of timber types, estimates will be made of composition density, basal area, and growth rates.</p> <p><i>note about this 26 Sept 77</i></p> <p><i>Rept &amp; letters sent 3 Jan 1978</i></p>		FOR THE JOB		\$650.00

**BILLING INSTRUCTIONS:** Payment for above will be made upon receipt of invoice mailed to:

U.S. DEPARTMENT OF AGRICULTURE - FOREST SERVICE

**P.O. Box 245**  
**Berkeley, Calif. 94701**

Ordered by:

Signature *[Signature]*

Name **Y. Kami**

Title **Procurement Officer**

TOTAL **\$650.00**

YK/SF

I-B-1-S

The U.S. Forest Service is not subject to State or local taxes and vendor must not include them in his invoice.

For any questions regarding this purchase order call.....  
Berkeley (415) 486-*3394*.....

UNITED STATES DEPARTMENT OF AGRICULTURE

Terms and Conditions of Purchase Order

1. **INSPECTION AND ACCEPTANCE.**—Inspection and acceptance will be at destination, unless otherwise provided. Until delivery and acceptance, and after any rejections, risk of loss will be on the Contractor unless loss results from negligence of the Government.

2. **VARIATION IN QUANTITY.**—No variation in the quantity of any item called for by this contract will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this contract.

3. **DISCOUNTS.**—Discount time will be computed from date of delivery at place of acceptance or from receipt of correct invoice at the office specified by the Government, whichever is later. Payment is made, for discount purposes, when check is mailed.

4. **DISPUTES.**—(a) Except as otherwise provided in this contract any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the Contracting Officer, who shall mail or otherwise furnish a copy thereof to the Contractor. This decision shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Contractor mails or otherwise furnishes to the Contracting Officer a written appeal addressed to the Head of the Agency. The decision of the Head of the Agency or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. The Contractor shall be afforded an opportunity to be heard and to offer evidence in support of his appeal. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the contract and in accordance with the Contracting Officer's decision. (b) This "Disputes" clause does not preclude consideration of law questions in connection with decisions provided for in (a) above; provided, that nothing in this contract shall be construed as making final the decision of any administrative official, representative or board on a question of law.

5. **FOREIGN SUPPLIES.**—This contract is subject to the Buy American Act (41 U.S.C. 10 a-d) as implemented by Executive Order 10582 of December 17, 1954, and any restrictions in appropriation acts on the procurement of foreign supplies.

6. **CONVICT LABOR.**—In connection with the performance of work under this contract, the Contractor agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1965 (16 U.S.C. 4082(c)(2)) and Executive Order 11755, December 29, 1973.

7. **OFFICIALS NOT TO BENEFIT.**—No member of or Delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

8. **COVENANT AGAINST CONTINGENT FEES.**—The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon any agreement or understanding for a commission, percentage, brokerage, or contingent fees, excepting bonafide employees or bonafide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fees.

9. **FEDERAL, STATE, AND LOCAL TAXES.**—Except as may be otherwise provided in this contract, the contract price includes all applicable Federal, State and local taxes and duties on the date of this contract but does not include any taxes from which the Government, the Contractor or this transaction is exempt. Upon request of the Contractor, the Government shall furnish a tax exemption certificate or similar evidence of exemption with respect to any such tax not included in the contract price pursuant to this clause. For the purpose of this clause, the term "date of this contract" means the date of the contractor's quotation or, if no quotation, the date of this purchase order.

10. **SERVICE CONTRACT ACT OF 1965.**—(Applies only to contracts for services unless exempted by the regulations of the Department of Labor)—Except to the extent that an exemption, variation, or tolerance would apply pursuant to 29 CFR 4-6 if this were a contract in excess of \$2500, the contractor and any

subcontractor hereunder shall pay all of his employees engaged in performing work on the contract not less than the minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended. All regulations and interpretations of the Service Contract Act of 1965 expressed in 29 CFR Part 4 are hereby incorporated by reference in this contract.

11. **CHANGES.**—The Contracting Officer may at any time, by a written order, and without notice to the sureties, make changes, within the general scope of this contract, in any one or more of the following: (I) for supplies: (a) drawings, designs, or specifications, where the supplies to be furnished are to be specially manufactured for the Government in accordance therewith; (b) method of shipment or packing; and (c) place of delivery; (II) for services: (a) specifications (including drawings and designs); (b) method or manner of performance of the work; (c) Government-furnished facilities, equipment, materials, services, or site; or (d) directing acceleration in the performance of the work. If any such change causes an increase or decrease in the cost of, or the time required for, the performance of any part of the work under this contract, whether changed or not changed by any such order, an equitable adjustment shall be made in the contract price or delivery schedule, or both, and the contract shall be modified in writing accordingly. Any claim by the Contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the Contractor of the notification of change. *Provided, however,* that the Contracting Officer, if he decides that the facts justify such action, may receive and act upon any such claim asserted at any time prior to final payment under this contract. Where the cost of property made obsolete or excess as a result of a change is included in the Contractor's claim for adjustment, the Contracting Officer shall have the right to prescribe the manner of disposition of such property. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this contract entitled "Disputes." However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

12. **TERMINATION FOR DEFAULT.**—The Contracting Officer, by written notice, may terminate the contract, in whole or in part, for failure of the Contractor to perform any of the provisions hereof. In such event the Contractor shall be liable for damages, including the excess cost of reprocurring similar supplies or services, provided that, if (i) it is determined for any reason that the Contractor was not in default or (ii) the Contractor's failure to perform is without his and his subcontractor's control, fault or negligence the termination shall be a termination for convenience under paragraph 13.

13. **TERMINATION FOR CONVENIENCE.**—The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Part 1-8 of the Federal Procurement Regulations (41 CFR 1-8), in effect on this contract's date. To the extent that this contract is for services and is so terminated, the Government shall be liable only for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

14. **ASSIGNMENT OF CLAIMS.**—Claims for monies due or to become due under this contract shall be assigned only pursuant to the Assignment of Claims Act of 1940, as amended (31 U.S.C. 203, 41 U.S.C. 15). This purchase Order may not be assigned unless or until the supplier has been requested to and has accepted this order by executing an Acceptance hereon.

15. **CLAUSES INCORPORATED BY REFERENCE.**—If the amount of this purchase order exceeds \$2,500, the following clauses form a part of the purchase order and are hereby incorporated by reference. Citations refer to the Federal Procurement Regulations. Text of the clauses may be obtained from the Contracting Officer:

Examination of Records by the Comptroller General (1-7.103-3)

Listing of Employment Openings (1-12.1102-2)

Employment of the Handicapped (1-12.1304)

Contract Work Hours and Safety Standards Act (1-12.303)

Service Contract Act of 1965 (1-12.904-1) (when applicable this clause takes precedence over paragraph 10 above)

(The following clauses apply if the amount of this Purchase order exceeds \$5,000)

Utilization of Small Business Concerns (1-1.710-3(a))

Utilization of Labor Surplus Area Concerns (1-1.805-3(a))

Utilization of Minority Business Enterprise (1-1.1310-2(a))

UNITED STATES DEPARTMENT OF AGRICULTURE  
PURCHASE ORDER

THIS NUMBER MUST  
APPEAR ON ALL  
INVOICES, PACKAGES AND  
PAPERS RELATING TO  
THIS ORDER

PAGE NUMBER	CONTRACT NUMBER	ORDER DATE	ORDER NUMBER	SUB
1 OF 2	RFQ 17-8-79	040579	43-9360-9-1016	

CHECK ONE	TO: (Seller)	SHIP TO: (Consignee and Destination)
<input checked="" type="checkbox"/> Purchase Order (See Reverse)	Jack L. Reveal 3843 Ingraham - Apt. F-309 San Diego, CA 92109	U.S. Forest Service Bridgeport Ranger District Bridgeport, CA 93517
<input type="checkbox"/> Delivery Order		

LINE ITEM	ACT CODE	DESCRIPTION	QUANTITY	UNIT ISSUE	UNIT PRICE	AMOUNT
		Perform Necessary Services to Set Up and Read Range Plot Transects as per the attached Specifications.				
1		Judge Chambers	1	Plot	240.00	240.00
2		Summers Meadows	1	Plot	230.00	230.00
3		Sawmill	1	Plot	260.00	260.00
4		Upper Piute	1	Plot	470.00	470.00
5		Walker Meadows	1	Plot	470.00	470.00
6		Lower Powell Flat	1	Plot	240.00	240.00
7		Upper Powell Flat	1	Plot	410.00	410.00
8		Alkali Lake	1	Plot	240.00	240.00
9		Sawmill Enclosure	1	Plot	260.00	260.00
10		Stockade Enclosure	1	Plot	220.00	220.00
11		North Sulphur	1	Plot	240.00	240.00
12		North Spring Gulch	1	Plot	260.00	260.00

**IMPORTANT NOTICE**  
This Purchase Order has been entered into an automated payment system. Please follow billing instructions carefully. PURCHASE ORDER NUMBER MUST APPEAR ON YOUR INVOICE

**SELLER'S ORIGINAL**

UNITED STATES DEPARTMENT OF AGRICULTURE  
PURCHASE ORDER

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THIS ORDER

PAGE NUMBER	CONTRACT NUMBER	ORDER DATE	ORDER NUMBER	SUB
2 OF 2	RFQ 17-8-79	040579	43 -9360-9-1016	

CHECK ONE	TO: (Seller)	SHIP TO: (Consignee and Destination)
<input checked="" type="checkbox"/> Purchase Order (See Reverse)	Jack L. Reveal 3843 Ingraham - Apt. F-309 San Diego, CA 92109	U.S. Forest Service Bridgeport Ranger District Bridgeport, CA 93517
<input type="checkbox"/> Delivery Order		

LINE ITEM	ACT. CODE	DESCRIPTION	QUANTITY	UNIT ISSUE	UNIT PRICE	AMOUNT
13		South Spring Gulch	1	Plot	240.00	240.00
14		Rickey Peak	1	Plot	310.00	310.00
15		Log Cabin	1	Plot	280.00	280.00
16		By-Day	1	Plot	300.00	300.00
17		Labrosse	1	Plot	230.00	230.00
18		Sinamon Labrosse	1	Plot	220.00	220.00
19		Stockade Trend	1	Plot	220.00	220.00

SELLER'S ORIGINAL

FOB POINT	DISCOUNT TERMS	TOTAL	5340.00
DESTINATION	NET		
TIME FOR DELIVERY	SHIP VIA		
9/30/79	N/A		

BILLING INSTRUCTIONS: 12/31/79 on p. 3

*Billed  
12 Sep 79*

DO NOT  
SHIP ORDER TO  
THIS ADDRESS  
(Ship to Consignee  
Address Above)

Furnish invoice with our ORDER NUMBER to:

U.S. DEPARTMENT OF AGRICULTURE  
TOIYABE NATIONAL FOREST  
111 No. Virginia St., Rm. 601  
Reno, NV 89501

FAILURE TO SHOW OUR PURCHASE ORDER NUMBER ON INVOICE WILL DELAY PAYMENT

FREIGHT CHARGE OVER \$25 REQUIRES BILL OF LADING

ISSUING OFFICE NAME AND ADDRESS	ORDERED BY (Name and Title)
USDA - Toiyabe National Forest 111 N. Virginia St., Rm. 601 Reno, NV 89501	A.S. FINE CONTRACT SPECIALIST
	PHONE (Area Code and Number)
	Comm (702) 784-5331 FTS 470-5331
	AUTHORIZED SIGNATURE
	<i>A.S. Fine</i>

UNITED STATES DEPARTMENT OF AGRICULTURE  
PURCHASE ORDER

THIS NUMBER MUST  
APPEAR ON ALL  
INVOICES, PACKAGES AND  
PAPERS RELATING TO  
THIS ORDER

PAGE NUMBER	CONTRACT NUMBER	ORDER DATE	ORDER NUMBER	SUB
1 OF 1		090479	40-9360-9-1085	

CHECK ONE	TO: (Seller)	SHIP TO: (Consignee and Destination)
<input checked="" type="checkbox"/> Purchase Order (See Reverse)	Jack L. Reveal 3843 Ingraham - Apt. F-309 Sna Diego, CA 92109	U.S. Forest Service Bridgeport Ranger District Bridgeport, CA 93517
<input type="checkbox"/> Delivery Order		

LINE ITEM	ACT. CODE	DESCRIPTION	QUANTITY	UNIT ISSUE	UNIT PRICE	AMOUNT
1		Put together a plant collection from species found while setting range plot transects under contract 40-9360-8-1016.	1	Set	300.00	300.00

SELLER'S ORIGINAL

*Jack, please be sure you invoice this job separately from the Plot transect job. Mary*

*Billed 17 Sept 79*

FOB POINT	DISCOUNT TERMS	TOTAL
Destination	Net	300.00
TIME FOR DELIVERY	SHIP VIA	
Sept. 30, 1979	N/A	

**BILLING INSTRUCTIONS:**  
Furnish invoice with our ORDER NUMBER to:  
U.S. DEPARTMENT OF AGRICULTURE  
National Finance Center  
P.O. Box 60075  
New Orleans, Louisiana 70160

**DO NOT SHIP ORDER TO THIS ADDRESS**  
(Ship to Consignee Address Above)

**IMPORTANT NOTICE**  
This Purchase Order has been entered into an automated payment system  
Please follow billing instructions carefully  
**PURCHASE ORDER NUMBER MUST APPEAR ON YOUR INVOICE**

FAILURE TO SHOW OUR PURCHASE ORDER NUMBER ON INVOICE WILL DELAY PAYMENT  
FREIGHT CHARGE OVER \$25 REQUIRES BILL OF LADING

ISSUING OFFICE NAME AND ADDRESS	ORDERED BY (Name and Title)
Toiyabe National Forest 111 N. Virginia St., Rm. 601 Reno, NV 89501	Mary E. Fisher, Admin. Asst.
	PHONE (Area Code and Number)
	Comm (702) 784-5331 FTS 470-5331
	AUTHORIZED SIGNATURE
	<i>Mary E Fisher</i>

Bridgeport R.S. - 932-7070

Fisher Ranch 702-784-5331

C Gunn  
Berry Davis

3843 Ingraham Apt. F-309  
San Diego CA 92109  
9 April 1979

To: COR - Macroplots - Bridgeport RD

From: Jack L. Reveal

In this memo I'd like to ask a few questions and set forth some proposals. After you've had a chance to think about them, perhaps we could talk by phone; or you might want to jot some informal notes and mail them to me to get us by for the time being.

1. Work Plans - It's hard to out-guess the weather, but right now I'd like to be on the District 7 thru 10 May to do Plots nos. 12 and 13, one of which would be the training plot. I'd like to do this first tour with my little Fiat rather than rent a truck for such a short time. I'd like to do these two plots early and be back into San Diego not later than 12 May to keep, if possible, some other commitments for the period 13 to 26 May. Not later than June 4, I'd return to do plots 6, 7, 8, 11, 17, 19, 10, 19, 1, 2 and 3 in approximately that order. This would be followed by a break from approximately 20 June to 4 July; then between 5 July and 15 July I'd plan to do plots 14, 15, 16, 4, 5 and 18.

Questions: how does the schedule sound at this point in time, especially the 7-10 May start? Would you attempt plots 12 and 13 without a truck?

2. Equipment - Sec. 213 states that the camera used should have a minimum format of 6cm. x 4.5 cm. I have such a camera - a miniature speed graphic - to use if strictly required. But it is heavy and doesn't have the flexibility nor the resolution of a good SLR 35mm camera.

I have a Silva compass, but nothing equal to a Brunton or a FS staff compass. However, I believe the Silva will satisfactorily do the compass work required.

Exhibit 1 shows 2 steel reference posts supporting the baseline tape. These posts are not listed in Sec 150.

Questions: May one use a 35mm camera or is the large film format strictly required? Will the Silva or Silva-type compass be satisfactory? Do the two steel reference posts remain a part of the macroplot or are they just for the purpose of supporting the 30 m baseline tape; and who furnishes the posts, the contractor or the government?

I understand the government will furnish the 1 m and .5 m grids which are not listed in Sec 150. May I suggest you also furnish a steel tape repair kit should one have the extreme misfortune to break a tape a long way from anywhere.

-2-

I haven't yet lined-up someone to help me. Do you know anyone around Bridgeport who might be interested? I suppose it's too much to expect even with the best of luck, but it would be great to find a helper who owns and could furnish a 4wd truck.

Would like to get some or all these questions answered by a week from now - say 16 April - because 1 May isn't very far down the track.

Sincerely

*Jack L. Reveal*

Jack L. Reveal

LOG  
of  
Budgetport Proj - 1979

Start-up } 64 MT  
Σ = Windup }  
Travel (car) 92  
field 315  
Bot + plants 211  
office 200  
Time (Revel's) 882 MT

Date	Job	Time
May		
6 Sun	Drive to L.A.	3
7 Mon	" " Lee Vining (stormy)	9
8	Pre-work w/ F.S. - Budgetport, etc.	10 (3)
9	Install So. Sp. Gulch w/ F.S.	9
10	Begin install. No. Sp. Gulch alone	9
11	finish No. Sp. Gulch + drive to South	12
12 Sat	Travel Big Pine - San Diego.	8
<del>30 - Sun 2</del>	<del>Prep. for field work</del>	<del>8</del>
June		
Sun 3	Travel for Budgetport via Indep.	10
Mon 4	Conf. w/ F.S. - travel to Powell Flat	12
Tues 5	Install L. Powell Flat; to alkali	12
Wed 6	Install alkali plot - drive to B. Port	10
Thurs 7	field botany trip w/ F.S. + to Sweetwater Cr. camp	11
Fri 8	Install Ledge Chambers	13
Sat 9	Install North Sulphur - to BP	12
Sun 10	In por - Sawmill Ex & botany	12
Mon 11	install Sawmill Ex + some Tr.	12
Tues 12	finish Sawmill + field w/ USFS	12
Wed 13	Install Labrosse + to Summer	12
Thurs 14	" Summer Meadow + to BP.	10
Fri 15	install upper Powell flat + to BP	12
Sat 16	In town - chores, etc.	

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150

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June (Cont.)		
17 Sun.	Began Sunamon Mts - snowed-out	8
18 Mon	finished Sunamon Mts + to Stockade	10
19 Tues	Examined Stockade; to So Spr. Gulch.	10
20 Wed	Return to San Diego via F.S. Bishop	12
21 Thurs	at herbarium - plant ident	6
22 Fri	" " " "	9
23 Sat.	Plant ident. & work on "camp"	8
24 Sun	" " - herbarium	4
25 Mon	" " " & mounting	10
26 Tues	" " " "	9
27 Wed	" " " "	9
28 Thurs	" " " ; mount photos	11
29 Fri	" " " ; " "	9
30 Sat	" " " ; " plants	10
JULY		
1 Sun	" " " ; mount plants	10
2 Mon	get ready for field trip	6
3 Tues	" " " " " + travel to LA - 6	6
4 Wed	Travel to Bridgeport & field work	10
5 Thurs	Install Stockade Tr.	8
6 Fri	" " " "	10
7 Sat	" Stockade Ex	10
8 Sun	" " " - finish (6)	9
	& prepare for high country trip (3)	193

E Field 2586

OFFICE 106

8411

August.  
(Cont.)

9 Mon	To Riskey Peak w/ horses (walk)	8 hrs	
10 Tues	Install Riskey Peak; hike to Log Cab	12	
11 Wed	Install Log Cabin	8	
12 Thurs	Hike to By Day, install, hike out	13	
13 Fri	Re-examine Sledge Chambers & Coop	6	
14 Sat	Rest		
15 Sun	Rest - & prepare for high country	3 hrs	
16 Mon.	Ride (w/ packer) to Puente Verde & begin	9	
17 Tues	Install Puente Verde plot	6	
18 Wed.	Hike to Walker & begin plot	9	
19 Thurs	Install the Walker Verde Plot	8	
20 Fri	Hike out to Leavitt (rain)	12	
21 Sat.	Cleaning-up gear, botany, etc <sup>(4)</sup> at Bridgeport	8	
22 Sun.	Rest & worked on plants Bridgeport.	3	
23 Mon	Travel to Bishop USFS & on to Saddle	14	
24 Tues	Clean up gear - Saddle	6	Field 2176
25 Wed	Herbarium - plant det.	6	
26 Thurs	" - plant det & mount	8	6 - herb. 2 home
27 Fri	" " " "	8	"
28 Sat	" " " "	8	
29 Sun	" " " "	8	
30 Mon	" " " "	6	
31 Tues	" " " "	6	

2175

2586

1979  
August

1	Wed	Herbarium - plant det; home: mount	9
2	Thurs	" " " "	9
3	Fri	" "	8
4	Sat	(no work)	
5	Sun	(no work)	
6	Mon	Herbarium - plant det	6
7	Tues	" " " ; home, mount	8
8	Wed	Herbarium " (4) Mount photos (4)	8
9	Thurs	Herbarium <sup>(with plants)</sup> 4; photos 2	6
10	Fri	Home - mount photos (6); plants (2)	8
11	Sat	Home - begin prep. of final report	6
12	Sun	" - L. Powell flat	8
13	Mon	" alkali Lake	8
14	Tues	" J. Chambers	8
15	Wed	Home: no. Sulphur plot	9
16	Thurs	" Baumill Ex	11
17	Fri	" " Tr. & Labrosse	9
18	Sat	" Labrosse, 50 Spr. Gul } <sup>conspicuous</sup> " " " } <sup>early</sup> " " " } <sup>work</sup>	7
19	Sun	" upper Powell flat & began Summers <sup>work</sup>	9
20	Mon	" finished Summers. Began Sumner	8
21	Tues	" finished Sumner work	10
22	Wed	Plants - Stockade Tr. & Encl. <sup>went to</sup> <sup>herbarium</sup> <sup>pm.</sup>	8
23	Thurs	finish Stockade Tr & Encl plots: filing	8
24	Fri	home - worked on Riskey Peak	10
25	Sat	home (a.m.): Log Cabin	3
26	Sun	home per & eve. Log Cabin - finish	5

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Sunday	Sunday		
27	27 Mon	home - did Bay View Plot	10
	28 Tues	" began Puerto Verde	7
	29 Wed	" finished Puerto, began Walker Verde	10
	30 Thurs	" finished Walker; began final	10
	31 Fri	" "final" wrap up	8
	Sept 1 Sat	odds + ends	2
	" 2 Sun	" " summaries	3
		to 9/1/79	
		Σ field 258 + 170 = 428 = 52%	
		Σ office 106 + 290 = 396 hrs = 48%	
		830	
	Sept 11-14	Deliver completed plots to FS in Bridgeport; review; discuss this + future projects, costs, contracts; rephotograph OM Base transect line at Savonell Island. Ret. to S. Diego - 1290 miles.	26 hrs

Σ office 290

Σ 820

Plot # \_\_\_\_\_

TOIYABE

Date \_\_\_\_\_

Name \_\_\_\_\_

MACROPLOT CHECKLIST

Vehicle: gas \_\_\_ oil \_\_\_ water \_\_\_ tires \_\_\_ Odom. reads \_\_\_\_\_

Equipment & Materials:

- |                          |                         |
|--------------------------|-------------------------|
| ___ 6' steel posts - 2ea | ___ 30 m tape           |
| ___ 48" rods-2 ea        | ___ 20 m tape           |
| ___ 18" rods - 20 ea     | ___ 2 m tape            |
| ___ Blumb bob            | ___ Camera              |
| ___ Singlejack           | ___ Film                |
| ___ Chalk bd & chalk     | ___ Pencils             |
| ___ Tatum holder         | ___ Plain paper         |
| ___ 1 m frame            | ___ Manila Envelopes    |
| ___ 0.5 m frame          | ___ Flagging            |
| ___ Air photo(s)         | ___ Plant manual        |
| ___ Topo map             | ___ Altimeter           |
| ___ Macroplot diagram    | ___ Photo point record  |
| ___ MP Sheets form       | ___ Plant list form     |
| ___ Frequency trend form | ___ Line intercept form |
| ___ Ground cover forms   | ___                     |
| ___ Compass              | ___                     |
| ___ Center punch         | ___                     |

- 
- \_\_\_ Reference posts driven  $\perp$
- \_\_\_ 0m & 30m pins set & centerpunched  $\otimes$
- \_\_\_ Dist. from downhill RP to 0m & 30m pins recorded
- \_\_\_ 6m transect pins (3 ea) driven & center punched
- |         |   |   |   |   |   |   |   |                                   |
|---------|---|---|---|---|---|---|---|-----------------------------------|
| ___ 10m | " | " | " | " | " | " | " | } ___ Tape<br>heights<br>recorded |
| ___ 17m | " | " | " | " | " | " | " |                                   |
| ___ 28m | " | " | " | " | " | " | " |                                   |
- \_\_\_ all transect pins located on MP sheet by  $\otimes$
- \_\_\_ Photograph 0m to 30m baseline w/chalk bd. at 10m
- \_\_\_ Photograph 30m to 0m " " " " " "
- \_\_\_ Photograph two general views w/ chalk bd. •
- \_\_\_ Make photo records sheets; annotate MP sheet records  $\rightarrow$

2 - Macroplot Checklist

- 6m transect read -  Tape height ea end recorded  
 Freq. data;  Grd Cover;  Line interc.  
 2 plot photos taken;  photos located on MP sheet
- 10m transect read -  Tape hts. ea end recorded  
 Freq. data;  Grd cover;  line interc.  
 2 plot photos taken;  photos located on MP sheet
- 17m transect read -  Tape hts. ea end recorded  
 Freq. data;  Grd Cover;  line interc.  
 2 plot photos taken;  photos located on MP sheet
- 28m transect read -  Tape hts. ea end recorded  
 Freq. data;  Grd cover;  line interc.  
 2 plot photos taken;  photos located on MP sheet
- Frequency standards checked.  Adequate;  inadequate.  
 Add. transect installed at  m; located on MP sheet    
 Freq. data;  Grd cover;  line interc.  
 plot photo taken - 2 ea.;  photos located/ MP sheet
- New frequency checked.
- Heading complete on MP sheet
- Complete Plant List & phenology
- Write notes on plot C/T
- Pin-prick plot location on Air Photo; enter data
- Locate MP on Topo Sheet;  Make location sketch Map
- Take bearings, distances to topo features.
- Check each data sheet for completeness
- Check Photo record on MP sheet
- All Photo Point Record sheets made
- Check site for complete tool pickup
- Odometer readings?
- 
- 
- 
- 
-

6320

TO: MARY FISHER

CONTRACT NO: 43-9360-9-1016

PROJECT: Set up and read Range Plot  
Transects

CONTRACTOR: Jack L. Reveal

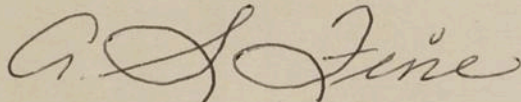
April 9, 1979  
Date

This is your designation as Contracting Officer's Administrative Representative (COAR) to administer the contract shown above. Your major duties and responsibilities are contained in the Service & Supply Contract Administration guide furnished you. You are to appoint the COR's to assist you in the field administration of the contract.

You are delegated full authority for contract administration except for the following actions which are reserved strictly for the Contracting Officer:

1. Taking action to terminate the contract for default or convenience of the Government.
2. Making contract adjustments as specified under the Differing Site Conditions clause.
3. Making final decisions under the Disputes Clause and/or Suspension of Work Clause.
4. Making final acceptance under the contract provisions.

Copies of the contract and letter of award are enclosed for your convenience.



Contracting Officer

Enclosures

cc:  
Contractor  
Forest or Unit Toiyabe  
Forest or Unit COR Bridgeport Ranger Station  
Inspector

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
324 25th Street  
Ogden, Utah 84401

6320

April 11, 1979



┌  
Jack L. Reveal  
3843 Ingraham - Apt. F-309  
San Diego, CA 92109

└  
Dear Mr. Reveal:

Enclosed is the Toiyabe National Forest's Purchase Order No. 43-93609-1016, in the amount of \$5,340.00, contracting for services to set up and read range plot transects on the Bridgeport Ranger District. Also enclosed is my designation of Ms. Mary Fisher as Contracting Officer's Administrative Representative. Ms. Fisher will appoint a Contracting Officer's Representative to work with at the jobsite.

Sincerely,

A. S. FINE  
Contracting Officer

Enclosures

CONFIDENTIAL

Macroplot Project - Bridgeport R.D.  
May - Sept 1979

John C. REVEAL  
18 Sept 1979

COST & TIME SUMMARY

Sept 19 Sept  
79

Transportation

Truck rental 4x4		\$ 824.62
Gas-oil purchased		229.25
Horses & packer		104.00
Fiat carpe (May-Sept.)	2965 <sup>mi.</sup> @ 10¢/mi.	396.50
Total Transportation		\$ 1554.37

Food & Lodging

Motel		285.09
Meals		64.33
Groceries		101.29
Total		\$ 450.71

Office Supplies \$ 39.87

Equipment Purchase & \$ 107.90

Miscellaneous

Photography		276.90
Phone calls		99.35
Miscell.		24.91
Total		\$ 351.16

Contract Assistants \$ 970.00

Total Costs (out-of-pocket costs) \$ 3474.03

Man hours by "principal investigator"

1. Start-up - wind-up time	64	hrs
2. Travel - to & from project	92	" "
3. "Field" time on project	215	" "
4. Taxonomy & voucher specimen- preparation	211	" "
5. "Office" work	200	" "
	<u>582</u>	" "

## Project Cost & Time Analysis

<u>OUT-OF-POCKET COSTS</u>		% of Costs
Transportation -	\$ 1554.37	44.7 %
Food-Lodging	450.71	13.0
Office supplies	39.89	1.2
Equipment purchased	107.90	3.1
Miscellaneous	351.16	10.1
Field Assistants	\$ 970.00	27.9
	\$ 3474.03	

"Earned" by contractor  $\$5640.00 - 3474.03 = \$2166.00$   
Man hours: 882 - earned per m.hr.  $\frac{2166}{882} = \$2.46/\text{m.hr}$

My worst mistake: Having an expensive 4wd pickup for 2 weeks when it was needed on only 3 of the 14 "on-road" plots (or near road). If I could have hired a 4wd. only when needed for So. Spr. Gulch, No. Sulphur & Upper Powell flats my transportation costs could have been reduced to about \$900.00 - or a saving of \$650.00 which would have left \$2816.00 for the amount "earned" by the contractor, or \$3.19/hr

P.S. In future contracts, you should indicate which plots need 4wd access & which do not

If I were to give you a bid for a 1980 contract on the 14 macroplots I did this year (19 in all) here is what I believe I'd do as a sort of bare-bone operation:

I'd estimate like this for out-of-pocket costs:

Transportation -	\$ 900 <sup>00</sup>
food - lodging	500 <sup>00</sup>
Office supplies	40 <sup>00</sup>
Photography	300 <sup>00</sup>
Microscopes	100 <sup>00</sup>
field assistants	1000 <sup>00</sup>
Plant ident. assistance	300 <sup>00</sup>
Total out-of-pocket costs	\$ 3140 <sup>00</sup>

I'd estimate my time in man-hours:

start-up + wind down -	30	m. hrs.
field work	300	" "
office work	200	" "
Inventory	70	" "
Specimen prep.	40	" "
	33.6 hrs per plot	640 " "

(note - I'm not allowed for any man-hours for "travel-time")

I'd want to "earn":  $640 \text{ m. hrs.} \times \$700 = \$4480<sup>00</sup>$

So I'd likely bid:  $\$3150 + \$4500$  or  $\$7650<sup>00</sup>$   
 (-bare bone, I feel-)  $\$400<sup>00 / plot</sup>$

(compared to ca.  $\$300<sup>00</sup>$  per plot for this year)  
 For every macroplot requiring 4 hrs I'd add  $\$50<sup>00</sup>$ .

SPECIFICATIONS

RECEIVED  
APR 3 1979  
PURCHASING

Division 100 - General Specifications

110 - Scope of Services

The Bridgeport District of the Toiyabe National Forest will establish 19 trend studies using frequency, cover, and photographic methods. The contractor will establish the transects on sites chosen by the District. He will prepare and submit required maps, forms, and photographs as specified in the Technical Specifications (Division 200). All work will be accomplished to standards prescribed in the above section.

120 - Location and Description

The transects are located on the Bridgeport District and their approximate location is shown on the attached maps. Access is as follows:

<u>Macroplot</u>	<u>Access</u> <u>Distance fr. 2 or 4 W-Drive Road</u>	<u>Approximate dates</u> <u>to be measured</u>
1. Judge Chambers	< ¼ mile	June 16
2. Summers Meadows	< ¼ mile	June 16
3. Sawmill	< ½ mile	June 16
4. Upper Piute	10 miles	July 15
5. Walker Meadows	8 miles	July 15
6. Lower Powell Flat	< ¼ mile	June 1
7. Upper Powell Flat	2 miles	June 1
8. Alkali Lake	< ¼ mile	June 1
9. Sawmill Enclosure	< ½ mile	June 15
10. Stockade Enclosure	< ¼ mile	June 15
11. North Sulphur	< ¼ mile	June 15
12. North Spring Gulch	1 mile	May 15

<u>Macroplot</u>	<u>Access</u> <u>Distance fr. 2 or 4 W-Drive Road</u>	<u>Approximate dates</u> <u>to be measured</u>
13. South Spring Gulch	< ¼ mile	May 15
14. Rickey Peak	3 miles	July 1
15. Log Cabin	1 mile	July 1
16. By-Day	2 miles	July 1
17. Labrosse	< ¼ mile	June 15
18. Sinnamon Meadows	< ¼ mile	July 15
19. Stockade Trend	< ¼ mile	June 15

Those macroplots less than ¼ mile are normally right along a road. Many of the macroplots are in ORV areas and will require access by foot or horse. The reference posts will be placed by the Forest Service and the location shown the contractor on the ground or on an aerial photograph at the option of the Forest Service.

130 - Contracting Officer's Representative. The Contracting Officer will designate a representative hereafter referred to as the Contracting Officer's Representative (COR) who will provide on the ground administration of the contract. Before work begins, the Contracting Officer will advise the Contractor of the name and address of the COR.

140 - Contractor Obligations. Contractor shall furnish all transportation, labor, supervision, supplies, materials, tools, equipment, and incidentals necessary to complete the work, except those to be furnished by the Forest Service as stated in Section 150.

The Contractor shall demonstrate that he has the technical skills to complete the job, without detailed supervision of Forest Service personnel.

141 - Education. Contractor (or employee) performing the work shall possess either a college degree in range management or a related discipline.

142 - Experience. Contractor (or employee performing the work) must have actual field experience in range studies and must be able to correctly identify range plants to the species level except those in the *Artemisia* genus which are to be identified to subspecies level, using technical identification manuals and other reference tools.

DEPT. OF THE TREAS. - TFS FORM 3039 (1-80)

NOTICE TO CHECK RECIPIENT

VENDOR NAME

JACK REVEAL

VENDOR I.D. NUMBER

TP1700098

AGENCY BILLING ADDRESS:

USDA-NFC  
P O BOX 60800  
NEW ORLEANS LA 70160  
INQUIRIES 504-255-5370

DISBURSING LOC:

KANSAS CITY

CHECK NUMBER:

95 615 438

CHECK AMOUNT:

\$6,512.00

CHECK DATE:

11-14-80

PAYMENT

IDENTIFICATION

INFORMATION

CONTR #43-9360-0-1051  
FINAL PMT  
TOIYABE NF

*Rec. 18 Nov 1980*

CREDIT ACCT OF USDA FOREST SERVICE

NECS/HP-30387

(SEE REVERSE FOR FURTHER INFORMATION)

TREASURY-DIV. OF DISB.- FORM EDP - 1285 (REV. 6/76)

NOTICE TO CHECK RECIPIENT

VENDOR NAME

JACK L REVEAL

VENDOR I.D. NUMBER

024025-5210

AGENCY BILLING ADDRESS:

USDA-NFC  
P O BOX 60800  
NEW ORLEANS LA 70160

DISBURSING LOC:

KANSAS CITY

CHECK NUMBER:

04 392 301

CHECK AMOUNT:

\$5,340.00

CHECK DATE:

10-22-79

PAYMENT

IDENTIFICATION

INFORMATION

P O # 43-9360-9-1016  
INV AMOUNT \$5,340.00

CREDIT ACCT OF USDA FOREST SERVICE

NECC/HP-25674

(SEE REVERSE FOR FURTHER INFORMATION)

TREASURY-DIV. OF DISB.- FORM EDP - 1285 (REV. 6/76)

NOTICE TO CHECK RECIPIENT

VENDOR NAME

JACK L REVEAL

VENDOR I.D. NUMBER

024025-4077

AGENCY BILLING ADDRESS:

USDA-NFC  
P O BOX 60800  
NEW ORLEANS LA 70160

DISBURSING LOC:

KANSAS CITY

CHECK NUMBER:

04 391 168

CHECK AMOUNT:

\$300.00

CHECK DATE:

10-22-79

PAYMENT

IDENTIFICATION

INFORMATION

P O # 40-9360-9-1085  
INV AMOUNT \$300.00

CREDIT ACCT OF USDA FOREST SERVICE

NECC/HP-25674

(SEE REVERSE FOR FURTHER INFORMATION)

San Diego, CA  
10 October 1979

Dist	Recd	Assignment
Date	Active	
		OCT 12 '79
OFF		
Resources	<input checked="" type="checkbox"/>	
R. L.		
F. T.		
F. T. Pitts		
Clerk		
Promise Card		
File		

To: Forest Service - Bridgeport

From: Jack Reveal

attn. C. Gunn. Range.

I'm mailing today the missing photo for Sawmill Exclosure along with the negative. Also in the package is a montage made from the O-M ref. post of Sawmill Trend which shows the baseline of the Trend plot and the whole of the exclosure just beyond.

I found a possible error in grass names: for Walker Meadow, please look at what was labeled *Deschampsia caespitosa*. In the material kept for the herbarium here, I found both *D. caespitosa* and *D. danthonioides*, an annual. I have a feeling that your voucher specimen may be the latter.

Here is the job sequence we adopted for the macroplots - and which we found quite satisfactory:

1. Set the baseline tape and drive the 6 steel pins (at 5m, 9m, 16m and 26m plus the 0m and 30 m pins)

2. Make baseline photos and general views - generally a total of four photos.

3. Collect voucher specimens, prepare plant list and record phenology - exhibit 6. NOTE: be sure to use the exact same name on the voucher collection sheet, the plant list-exhibit 6, and the field data sheet-exhibit 3. This is especially important when one is confronted with several species of the same genus and when one has to use common names or nick-names for specimens pending lab determination.

3a. Decide on frame size (5) to use.

4. Lay out the 6m belt and set the 10m and 20m pins.

~~4a. Set~~  
5. Select the plots to be photographed; make the photos; record the data.

6. Read "intercept" and record (exhibit 7)

6a. Check frequency - within 20-80% bracket? Adjust, if need be.

7. For each of the 20 plots read and record "cover" and "frequency" on exhibits 4 and 3.

re-read transect

To

8. Lay out the 10, 17 and 27 meter belts, setting pins, taking photos and reading the plots as described in tasks 4, 5, 6 and 7 above.

9. After the 27m belt is finished, check the frequency data sheet to make sure that plot requirements are met and that an additional belt is not needed--or is needed.

10. Check all forms for completeness; make sure nothing is missed.

11. Roll up tapes; gather tools, using a checklist to begin with.

12. Press any additional specimens collected during progress of the work and temporarily segregated in plastic bags. *Be sure to add names to plant list, record phytology.*

13. Draw the field map. Locate the plot on USGS quad, the air photo, and annotate locations.

14. Write notes on Condition/Trend, etc.

15. Once again check data for completeness and look around for misplaced tools and equipment.

16. On departing the locality, take one or two "approach" photographs unless such was made earlier on arrival.

No doubt different people will develop somewhat different systems, but this is a good place to begin. When two people are doing the work, you'll find that each can stay busy every minute by sorting out one-man tasks,--like photography, pin driving, reading intercept.

That about wraps it up for now anyway.

Thanks so much for letting me do this work--and thank you especially for all the things you did to help me along.

Let's keep in touch...

Sincerely

Jack.

*Real. I've really got this messed up now trying to add on. But if list is of some use, it can be retyped after editing, correcting*

Jack L. Reveal.  
 3843 INGRAHAM ST.  
 BLDG. F, APT. 309  
 SAN DIEGO, CALIF. 92109

FREQUENCY TREND STUDY - MACROPLOT SHEET

EXHIBIT 2.

Macroplot Name Upper Powell flat 215b Date 15 June 1979  
 Allotment \_\_\_\_\_ Tape Ht. \_\_\_\_\_  
 Legal \_\_\_\_\_ Om. 33 cm  
 Photo No. 02-77-204 s 205 30 m. 21 cm  
 Plot size(s) 1m, 0.5m, 20 cm, 10 cm Bearing S63W from 0m to 30 m

Baseline Distance from  
 Each reference post to:

- (1) 0m. pin 123.5  
 (2) 30 m. pin 127.5

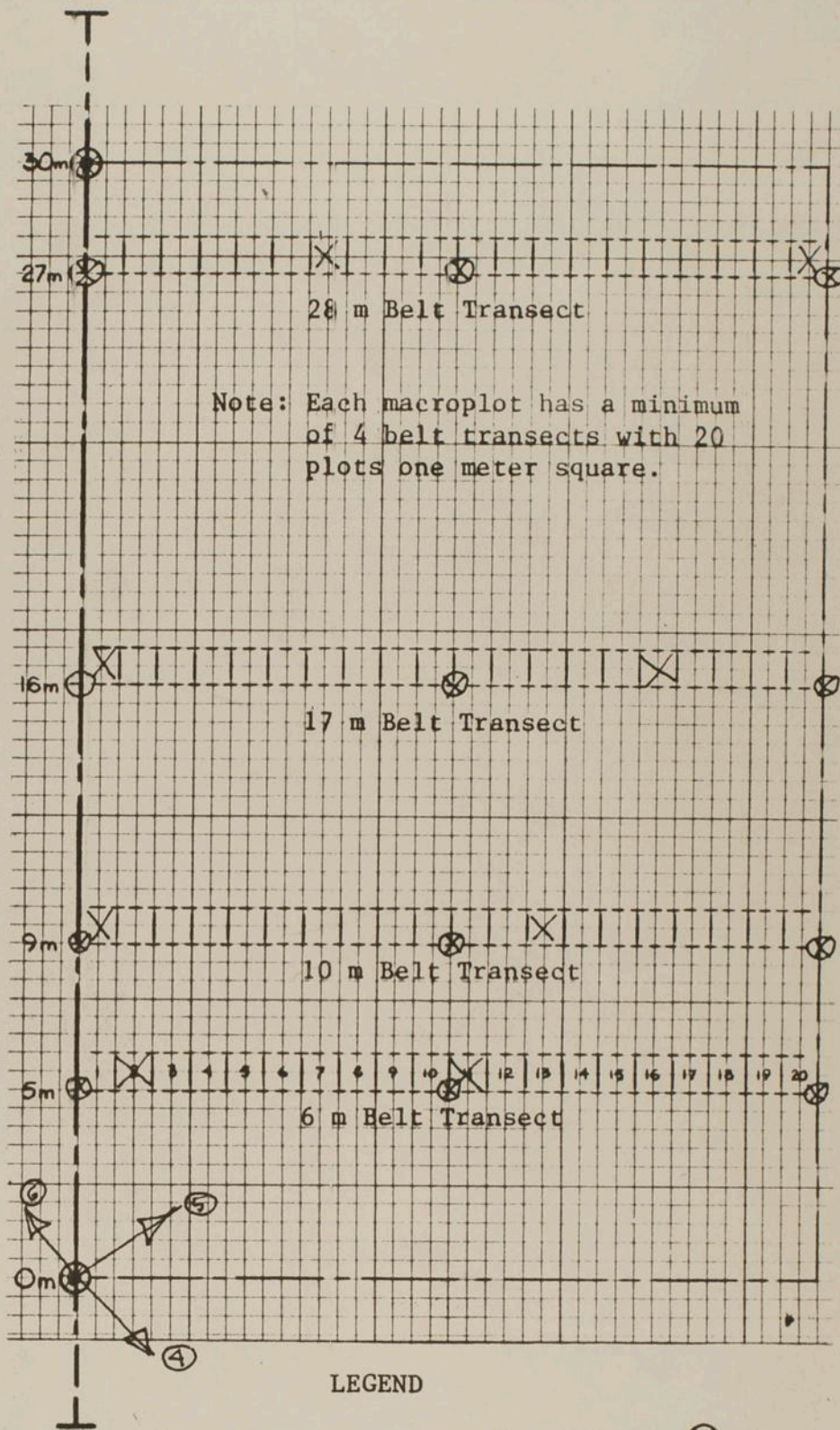
All belt transects shall be laid out to the right of the base line. Lower edge of belt transect shall be coincident with measuring tape projecting perpendicularly from 5 m., 9 m., 16 m., and 27 m. plot pins on base line. Twenty plots one meter square shall be located and numbered from left to right, beginning at the baseline, within each belt transect. Nested plot frames must have smallest area unit in lower left corner of plot.

PHOTOGRAPHY REQUIRED

Minimum General Views are 0m. to 30 m., and 30 m. to 0m. Additional Photos shall be shown by arrows (●→).

PLOT PHOTOS	
No.	Distance
1.	Approach photo
2.	0-M
3.	30-M
4.	Gen View
5.	Gen View
6.	Gen View
7.	6-2
8.	6-11
9.	10-1
10.	10-13
11.	17-1
12.	17-16
13.	28-7

14 28-20



Note: Each macroplot has a minimum of 4 belt transects with 20 plots one meter square.

LEGEND

Base Tape — — — — — Plot Rebar ⊗  
 Plot Bdry. — — — — — Plots Photo ⊗  
 Reference Post ⊥ 1 meter □  
 0-30 m. Pin ⊗ ..

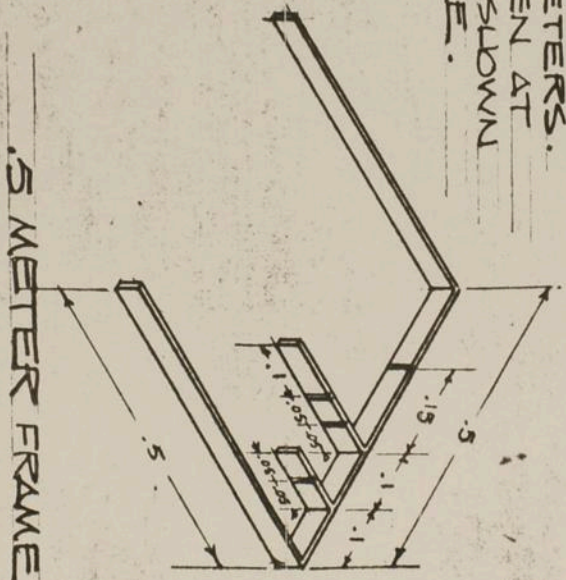
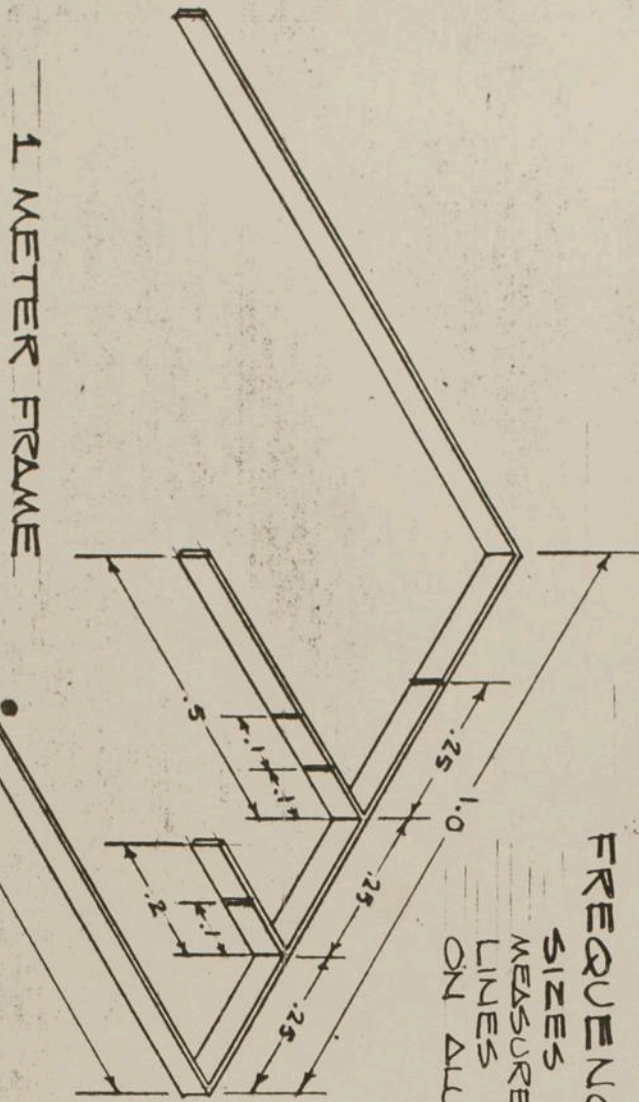
Upper Powell flat  
 215 b  
 15 June 79

GROUND COVER WORKSHEET

	6 m. BELT	10 m. BELT	17 m. BELT	28 m. BELT	# PT.	%
BAREGROUND	69	60	77	78	284	59
LITTER	44	55	39	36	174	36
VEG. BASAL	7	4	4	6	21	4
PAVEMENT	-	-	-	-		
ROCK	-	1	-	-	1	1

FREQUENCY FRAME DIMENSIONS

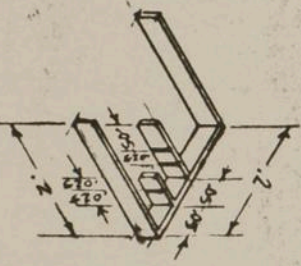
SIZES SHOWN IN METERS.  
 MEASUREMENTS TAKEN AT  
 LINES SCORED AS SHOWN  
 ON ALUMINUM FRAME.



.5 METER FRAME

1 METER FRAME

.2 METER FRAME



Upper Powell flat  
215b

## LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		Cluster Name		Transect No.		Examiner		Date	
				Upper Powell flat 215b		GM		Reveal		15 June 79	
<i>Antennaria cana bolanderi</i>		Species		Species		Species		Species			
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.		
3.27	24										
62-66	4										
264-78	14										
353-69	16										
455-71	16										
750-69	19										
1409-57	48										
1647-66	19										
1985-1995	10										
Total	170										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopys.

Tape height at 0m 24 cmTape height at 20m 28 cm

EXHIBIT 7

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		Cluster Name		Transect No.		Examiner		Date	
				Upper Powell Plot 215b		10M		Reneul		15 June 79	
<i>Artemisia</i> <i>cana bolanderi</i> Species		Species		Species		Species		Species			
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
218 - 28	10										
375 - 410	35										
553 - 56	3										
675 - 84	9										
779 - 830	51										
656 - 93	37										
963 - 67	4										
1012 - 18	6										
1067 - 73	6										
1086 - 1100	14										
1456 - 63	7										
1609 - 27	18										
Total	200										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopys.

Tape height at 0m 14'

Tape height at 20m (missed) ca 15 cm

EXHIBIT 7

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		Cluster Name		Transect No.		Examiner		Date	
				Upper Powell Flat 215b		17m		Reveal		15 June 79	
<i>Antennaria cana bolanderi</i>		Species		Species		Species		Species		Species	
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
205-10	5										
224-45	21										
294-316	22										
454-555	101										
718-730	12										
872-890	18										
902-18	16										
1135-47	12										
1171-1200	29										
1605-38	33										
Total	269										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopys.

Tape height at 0m 25 cm

Tape height at 20m 22 cm

EXHIBIT 7

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		Cluster Name		Transect No.		Examiner		Date	
				Upper Powell Flat 215 b		17m		Reveal		15 June 79	
<i>Antennaria cana bolanderi</i> Species		Species		Species		Species		Species			
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
205-10	5										
224-45	21										
294-316	22										
454-555	101										
718-730	12										
872-890	18										
902-18	16										
1135-47	12										
1171-1200	29										
1605-38	33										
Total	269										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopys.

Tape height at 0m 25 cm

Tape height at 20m 22 cm

EXHIBIT 7

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		Cluster Name		Transect No.		Examiner		Date	
				Upper Powell Flat 215b		28M		Reveal		15 June 79	
<i>Artocarpus cana bolanderi</i> Species		<i>Chrysothamnus viscid. viscid.</i> Species		Species		Species		Species		Species	
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
103-10	7	623.39	16								
283-309	26	824.93	19								
386-96	10	1342.43	1								
502-16	14										
575-86	11										
737-43	6										
1136-44	8										
1635-45	10										
Total	92										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopys.

Tape height at 0m 16 cm

Tape height at 20m 28 cm

Macroplot Upper Powell Flat 215b  
 Examiner Ruehl  
 Recorder Goodrich  
 Date 15 June 79 Frame Size .5x.5m

Species	Belt 6 m.		Belt 10 m.		Belt 17 m.		Belt 28 m.		Belt		Total % Frequency	
	Hits	%	Hits	%	Hits	%	Hits	%	Hits	%		
1. <i>M. x LM</i>												
2. <i>Arabis holboellii</i>	9	45	8	40	7	35	8	40			32	40
3. <i>Stipa comata</i>					5	25	12	60			17	21
4. <i>Poa sermifera</i> ( <i>P. saundersii</i> )	1	5									1	1
5. <i>Chrysothamnus viscid.</i>	1	5			5	25	11	55			17	21
6. <i>Stachys leptocoma</i>	5	25	7	35	7	35	9	45			28	35
7. <i>Astragalus laetiginosus</i> (?)	4	20	2	10	3	15	10	50			19	24
8. <i>Notocallis alpestris</i>	1	5			1	5	1	5			3	4
9. <i>Eriogonum ovalifolium</i>			2	10			2	10			4	5
10. <i>Gnaphalium leucopurpureum</i>			1	5	1	5	2	10			4	5
11.												
12.												
13. <i>Stipa</i>												
14. 0.5M x 0.5M												
15. <i>Stipa pinnatifida</i> (?)	13	65	10	50	9	45	12	60			44	55
16. <i>Phlox stansburgii</i>	9	45	14	70	12	60	9	45			44	55
17. <i>Antennaria cana</i> ssp. <i>bel.</i>	12	60	14	70	12	60	5	25			43	54
18.												
19.												
20.												

Macroploit Upper Powell Flat <sup>FISH</sup> Examiner Russell Recorder Gaudin Date 15 June 79 <sup>\$</sup> 20 cm x 20 cm  
 10 cm x 10 cm Frame Size

Species	Belt 6 m.		Belt 10 m.		Belt 17 m.		Belt 28 m.		Belt	
	Hits	%	Hits	%	Hits	%	Hits	%	Hits	%
1. <i>20 cm x 20 cm</i>										
2. <i>Lupinus bromerii</i>	7	35	7	35	8	40	5	25		
3. <i>Calyptridium</i> <i>herosium</i>	10	50	8	40	7	35	6	30	27	34
4. <i>Gnaphalium</i> <i>speciosum</i>	7	35	4	20	1	5	-	-	31	34
5. <i>Gnaphalium</i> <i>curvicaule</i>	5	25	4	20	7	35	9	45	12	15
6. <i>Elymus</i> <i>triticoides</i>	12	60	13	65	11	55	14	70	26	31
7. <i>Phalaris</i> <i>intermedia</i>	10	50	11	55	3	15	6	30	50	63
8.									30	38
9.										
10. <i>10 cm x 10 cm</i>										
11. <i>Carex douglasii</i>	9	45	8	40	10	50	16	80	43	54
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

APPARENT TREND  
(FSH 2209.21 Chap. 41.28)

Upper Powell Flat  
2156

VEGETATION

Up or Stable

Down

- |  |  |
|--|--|
| <p>1. Desirable frequency groupings and age classes of desirables, intermediates and least desirables. #<br/>to →</p> <p>2. Forage plants not being pulled up or trampled out by grazing. #</p> <p>3. Vigor of key species high as indicated by leaf length, seed stock production and normal color. ....</p> <p>4. Browse species showing no hedging. #</p> | <p>1. A disproportionate amount of intermediates and least desirables. Seedlings of better plants having difficulty in becoming established. ....</p> <p>2. Forage species being pulled up and trampled out by grazing. ....</p> <p>3. Low vigor of key species as indicated by reduced size of plant, leaf length of seed stalks, and off color (sickly yellow). #</p> <p>4. Browse species showing moderate to heavy hedging. ....</p> |
|--|--|

SOIL

Up or Stable

Down

- |   |   |
|---|---|
| <p>1. Ground cover dispersion — uniform. #</p> <p>2. No detectable soil movement. ....</p> <p>3. Soil surface continuous and intact. ....</p> <p>4. No exposure of plant roots. #<br/>to →</p> <p>5. Stones and rock fragments, where present, normal and in place — no movement of rock fragments. #</p> <p>6. Lichen lines on stones and rock fragments extend to soil level. #</p> <p>7. No active gullies. #</p> <p>8. No recent soil deposits either alluvial or aeolian. ....</p> <p>9. No wind-scoured depressions. ....</p> | <p>1. Ground cover dispersion — variable to highly variable. ....</p> <p>2. Soil movement detectable. #<br/>(Roads, wind)</p> <p>3. Cupping out between soil remnants. #</p> <p>4. Plant roots exposed. ....</p> <p>5. Stones and rock fragments, where present, concentrating on surface as erosion pavement. Fragments loose and often moving downslope. ....</p> <p>6. Lichen lines on stones considerably above soil surface — no lichens on rock fragments. ....</p> <p>7. Active gullies — indicated by recent cutting and sloughing. ....</p> <p>8. Recent soil deposits — alluvial or aeolian. probably → #</p> <p>9. Wind-scoured depressions. #</p> |
|---|---|

R4-2200-25 (7/64)

Plant Name	Phenology
1. <i>Astilmaea cana</i> ssp <i>bolanderi</i>	leaf growth starts
2. <i>Elymus triticoides</i>	" " "
3. <i>Arabis holboellii</i>	full bloom
4. <i>Phlox stansburgii</i>	" "
5. <i>Astragalus lentiginosus</i>	" "
6. <i>Lupinus breweri</i>	flower stalks appear
7. <i>Eriogonum ovalifolium</i> (?)	" " "
8. <i>Stipa pinnatum</i> (?)	" " "
9. <i>Poa secunda</i> ( <i>P. sandbergii</i> )	← " " "
10. <i>Stipa comata</i>	leaf stalk growth
11. <i>Carex douglasii</i>	hard seed
12. <i>Wrightia richardsonii</i>	" "
* 13. <i>Phlox</i>	
14. <i>Cryptantha circumscissa</i>	growth starts →
15. <i>Chrysothamnus viscidiflorus</i> ssp <i>viscid.</i>	leaf growth start
* 16. <i>Festuca</i>	
17. <i>Gnaphalium decipiens</i>	
18. <i>Nothocalis alpestris</i>	pl. stalks appear
19. <i>Gymnosteris parvula</i>	seed ripe
20. <i>Calyptridium roseum</i>	← first bloom
21. <i>Camissonia chaenactisoides</i> ?	" "
22.	
23.	
24.	
25.	
26.	* Not collected; not found on plot
27.	
28.	
29.	
30.	
31.	
32.	
33.	
34.	

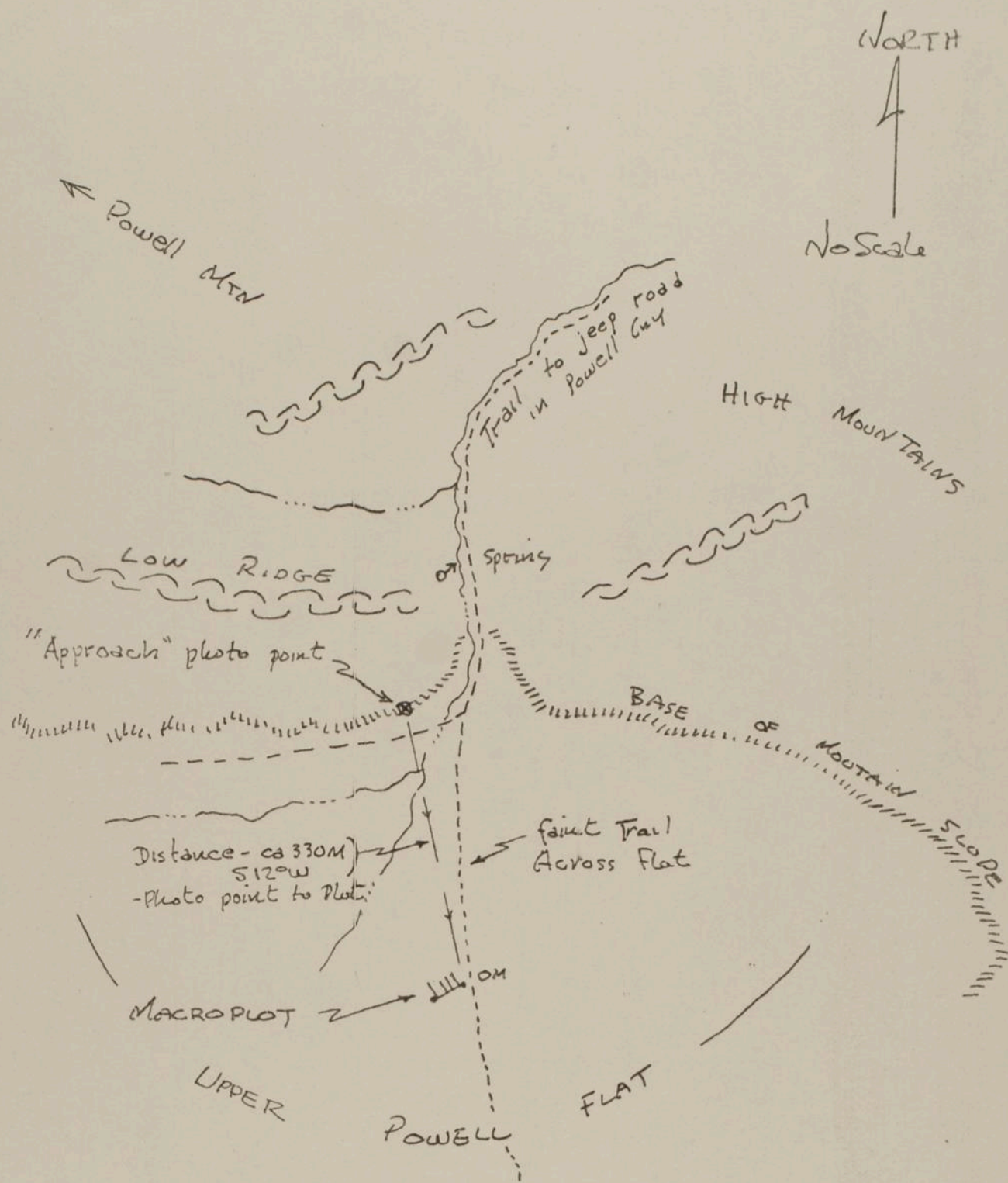
## OBJECTIVES -

APPARENT TREND Upper Powell Flat is a dry, cool, ± windy alkaline basin. Like most other basins in the locality, it is a puzzle — and much in need of study. It is difficult to sort out the factors at work here and weigh them in a context that might be helpful to management people. Wind erosion, rodent activity, shrink-swell and frost heaving, high evaporation rates, etc., etc., are all at work here. And I see what looks like too much manure around, and bunches of *Stipa* are rings — open in the middle. But on the positive side

there are young grass plants coming in, there's hardly any trailing, and a minimum of annuals such as Brouss tectorum & other weedy things.

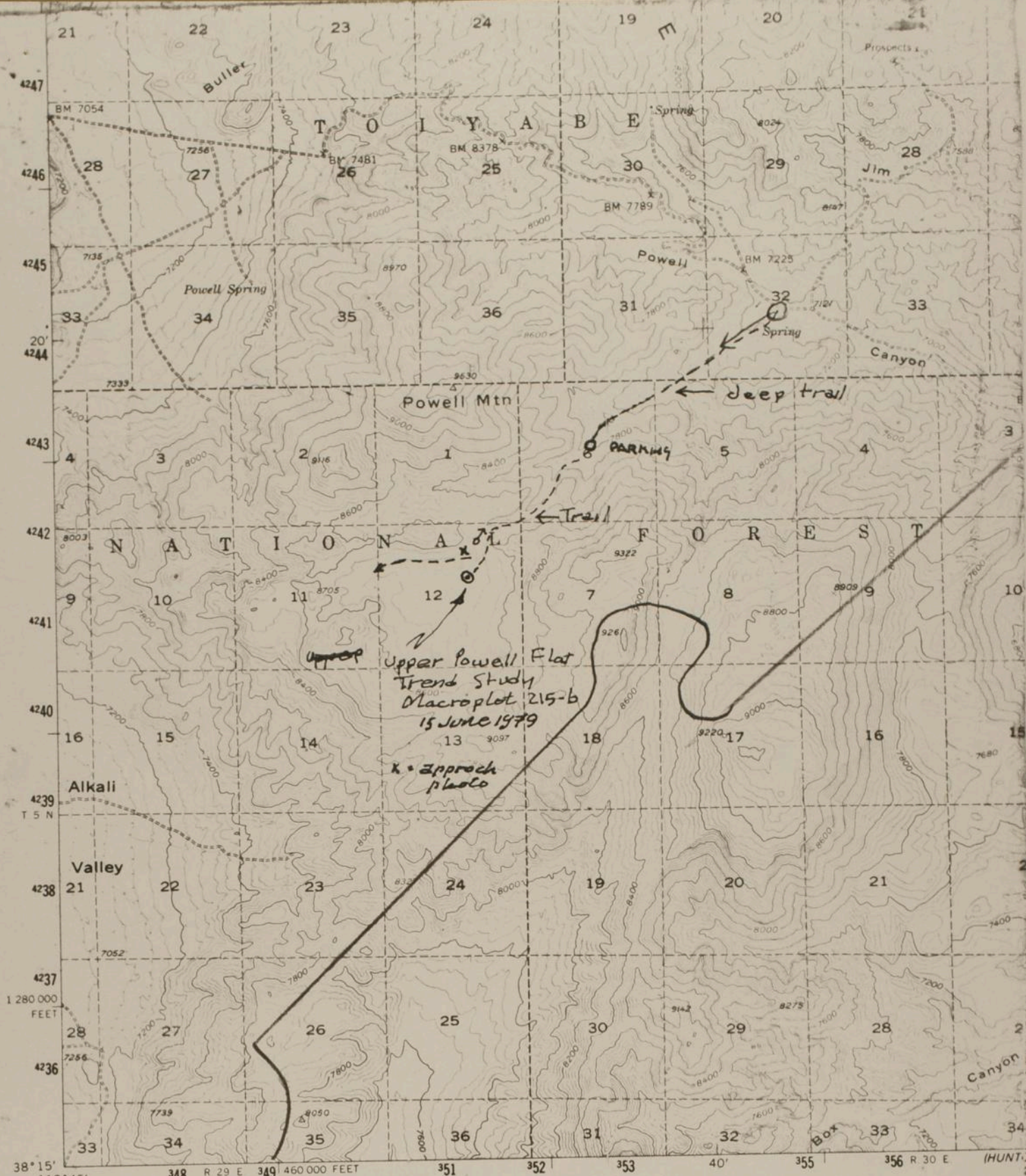
as things now appear, only time will tell if the vegetation trend is static or downward. I would guess, downward - to be conservative.

at the head of the canyon the trail comes up, I saw a ♀ antelope.



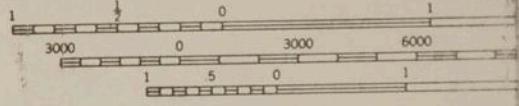
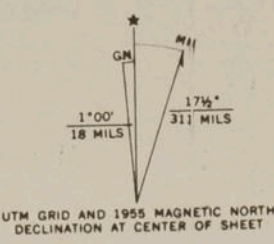
Sketch Map  
 OF  
 UPPER POWELL FLAT  
 MACRO PLOT # 215-b  
 15 June 1979

J Powell



Mapped, edited, and published by the Geological Survey  
 Control by USGS and USC&GS  
 Topography from aerial photographs by multiplex methods  
 and by planetable surveys 1955. Aerial photographs taken 1954  
 Polyconic projection. 1927 North American datum  
 10,000-foot grid based on Nevada coordinate system, west zone  
 Dashed land lines indicate approximate locations  
 Unchecked elevations are shown in brown  
 1000-meter Universal Transverse Mercator grid ticks,  
 zone 11, shown in blue  
 National Forest shown by proclamation boundary  
 Private ownership not shown within National Forest

(TRENCH CANYON)  
 268 III



CONTOUR IN  
 NATIONAL GEODETIC

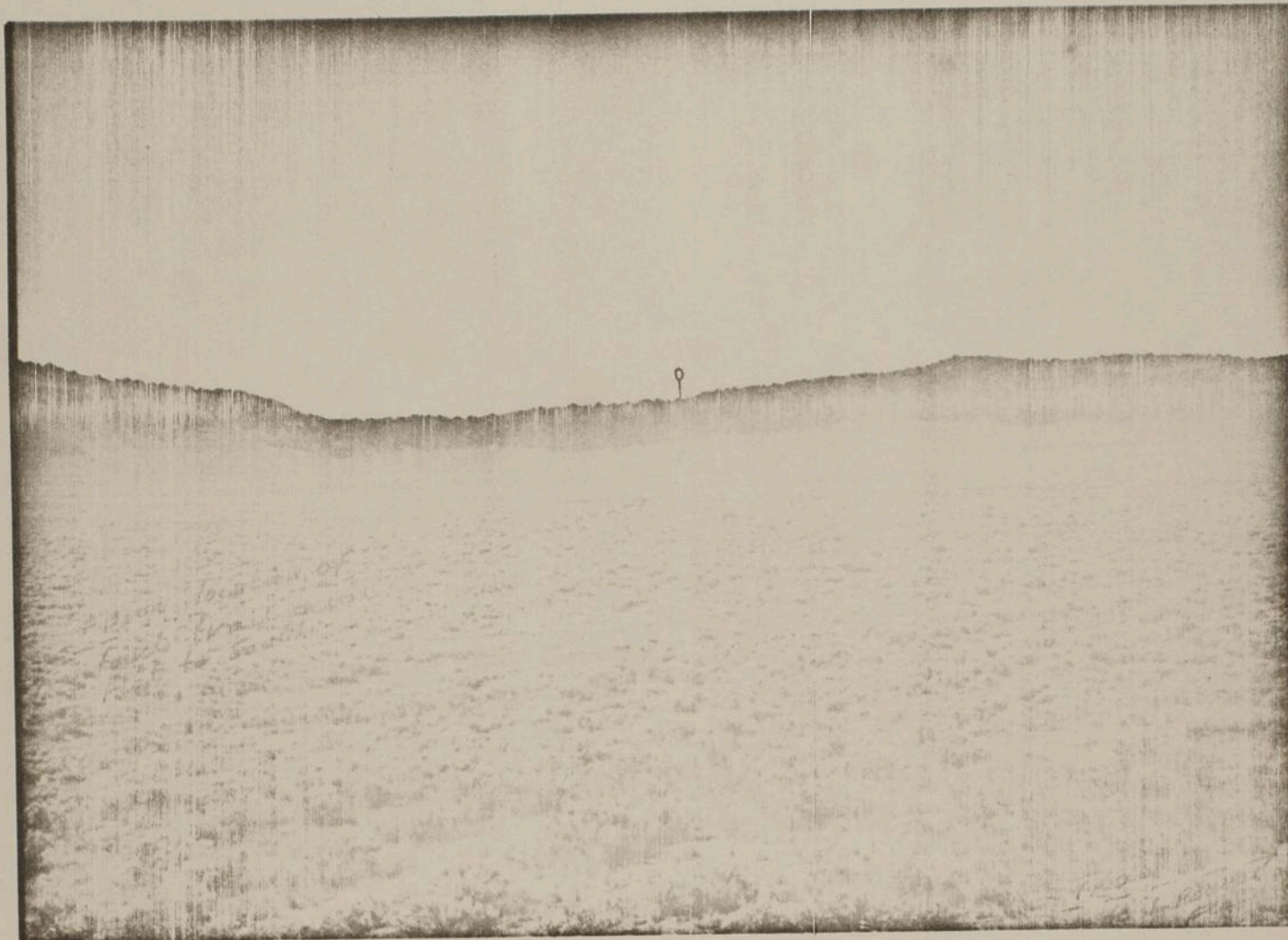
THIS MAP COMPLIES WITH NAT  
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER  
 A FOLDER DESCRIBING TOPOGRAPHIC MA

EXHIBIT 5.

RANGE PHOTO POINT RECORD

*Upper Powell Flats  
215b*

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_  
 PHOTO BY J. Reveal DATE 15 June 79 HOUR 0730 PST  
 TYPE CAMERA SL Kef 35mm LENS 56mm FILM 400 ASA Kodacolor  
 SHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS Clear - cooler  
*cool to warm*



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

*Photo 1 - approach photo from point shown on sketch & air photo. figure (shown under ♀) is on baseline. from photo point to microplot: ca. 330 meters - 512°W.*

## RANGE PHOTO POINT RECORD

Upper Powell flat  
2156FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY Jack Russell DATE 15 June 79 HOUR 0800 pdstTYPE CAMERA SLR - 35mm LENS 55mm. FILM 400 ASA KodacolorSHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS clear, calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 2. photo of Baseline from OM ref post looking  
563°W across Upper Powell flat.

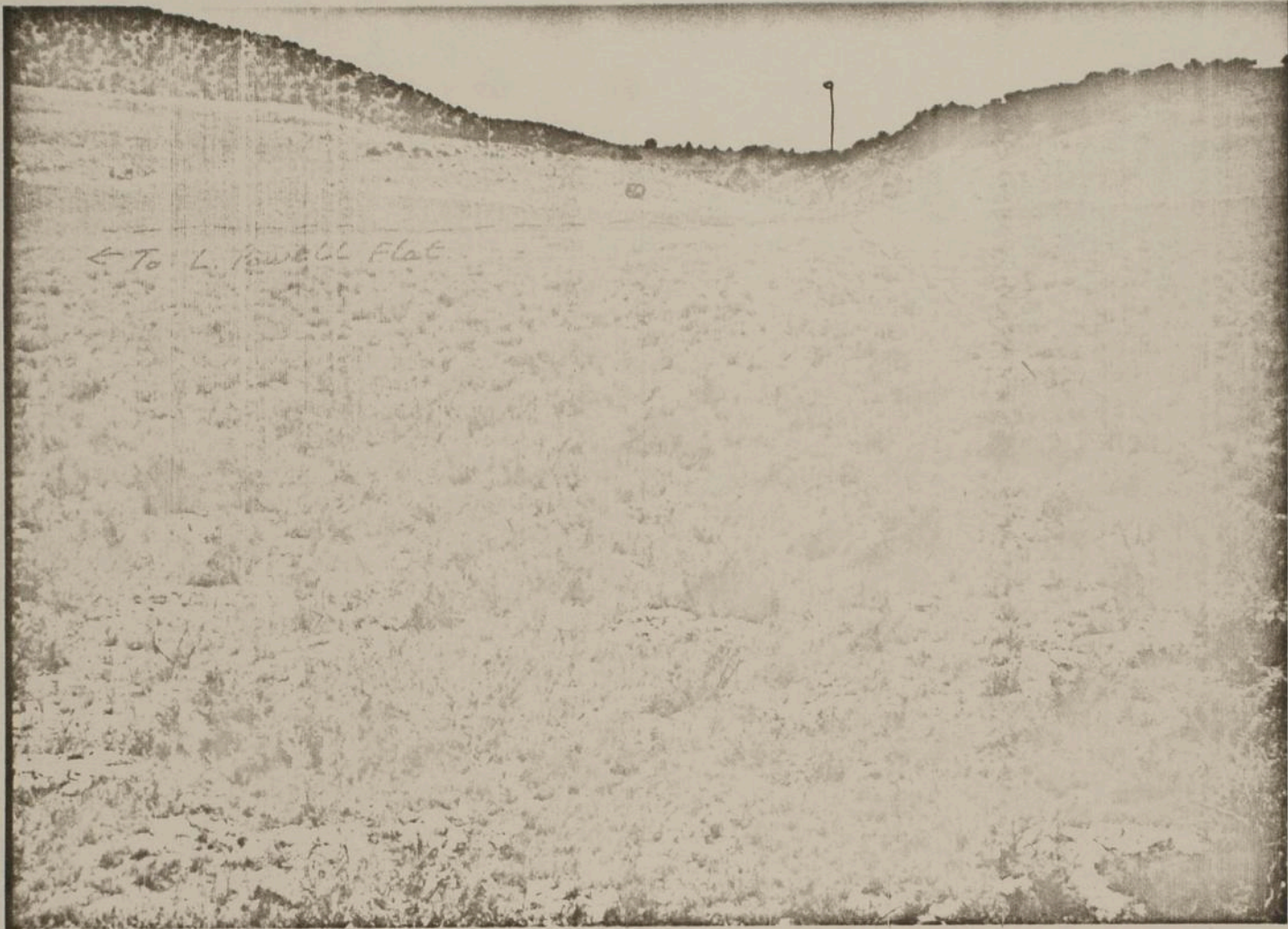
## RANGE PHOTO POINT RECORD

Upper Powell flat  
215-bFOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY J. Reveal DATE 15 June 79 HOUR ca 8:30 PDS TTYPE CAMERA SLR 35mm LENS 55mm FILM 400 ASA KodacolorSHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS clear, calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

#3 - Base line from 30 m Reference post. Arrow points to canyon w/ access trail; dashed line shows location (approximate) of a trail across flat.

## RANGE PHOTO POINT RECORD

Upper Powell Flat  
2156FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY L. Reed DATE 15 June 79 HOUR Ca 0830 POSTTYPE CAMERA 35 mm LENS 55 mm FILM 400 ASA KodakolorSHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS clear, calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

#4. general view from O.M. reef stake  
N12E toward point where "approach photo" was  
taken. Arrow indicates canyon traversed by  
access trail.

EXHIBIT 5.

5714  
#5

Upper Powell flat  
2156

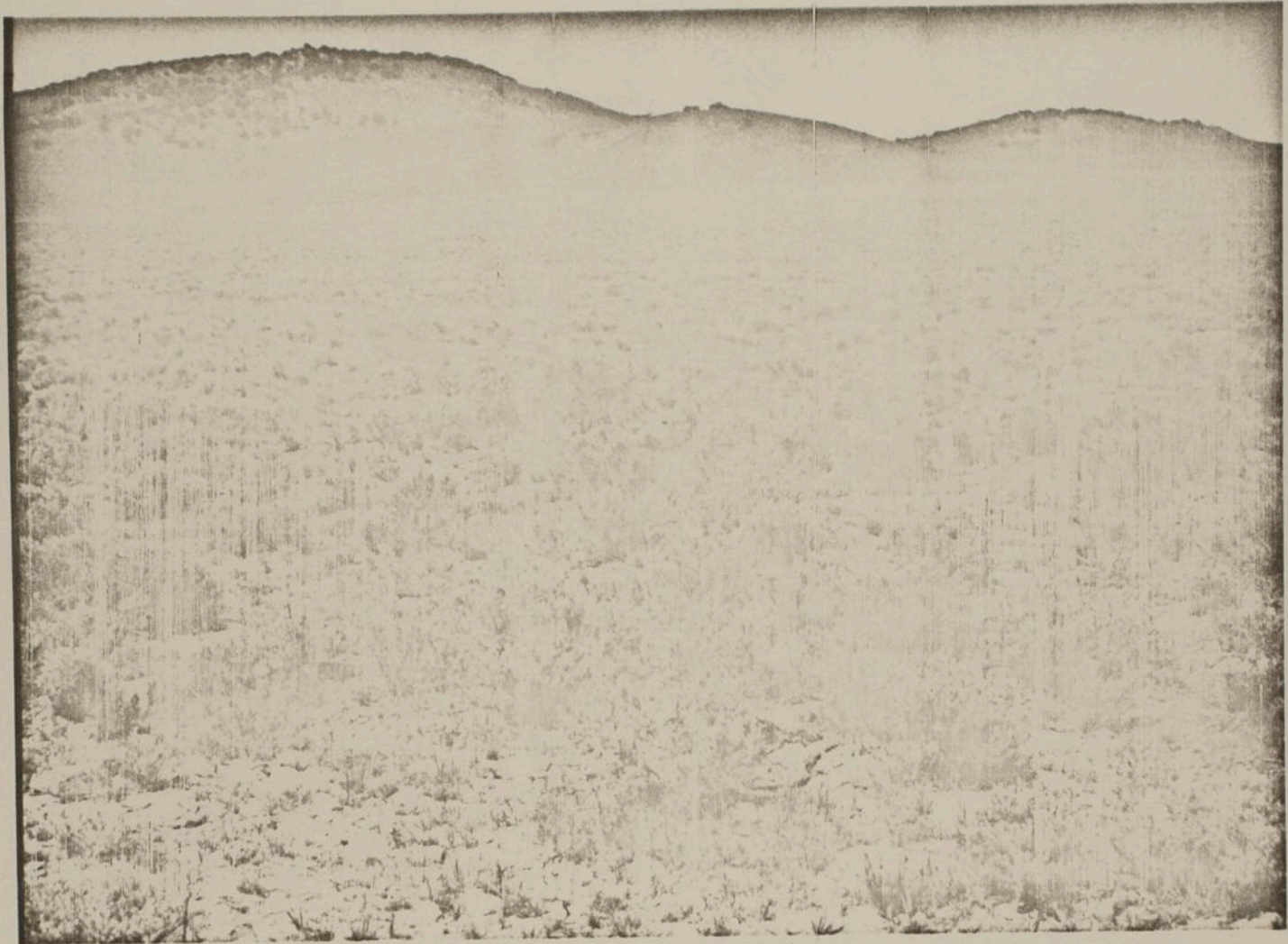
RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_

PHOTO BY Shaved DATE 15 June 79 HOUR 00830 POST \_\_\_\_\_

TYPE CAMERA SLR 35mm LENS 55 mm FILM 400 iso Kodacolor

SHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS clear color



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

#5 General view from OM. Ref. Post looking 580°W  
across Upper Powell flat. Note what appears  
to be rodent mounds at lower right.

## RANGE PHOTO POINT RECORD

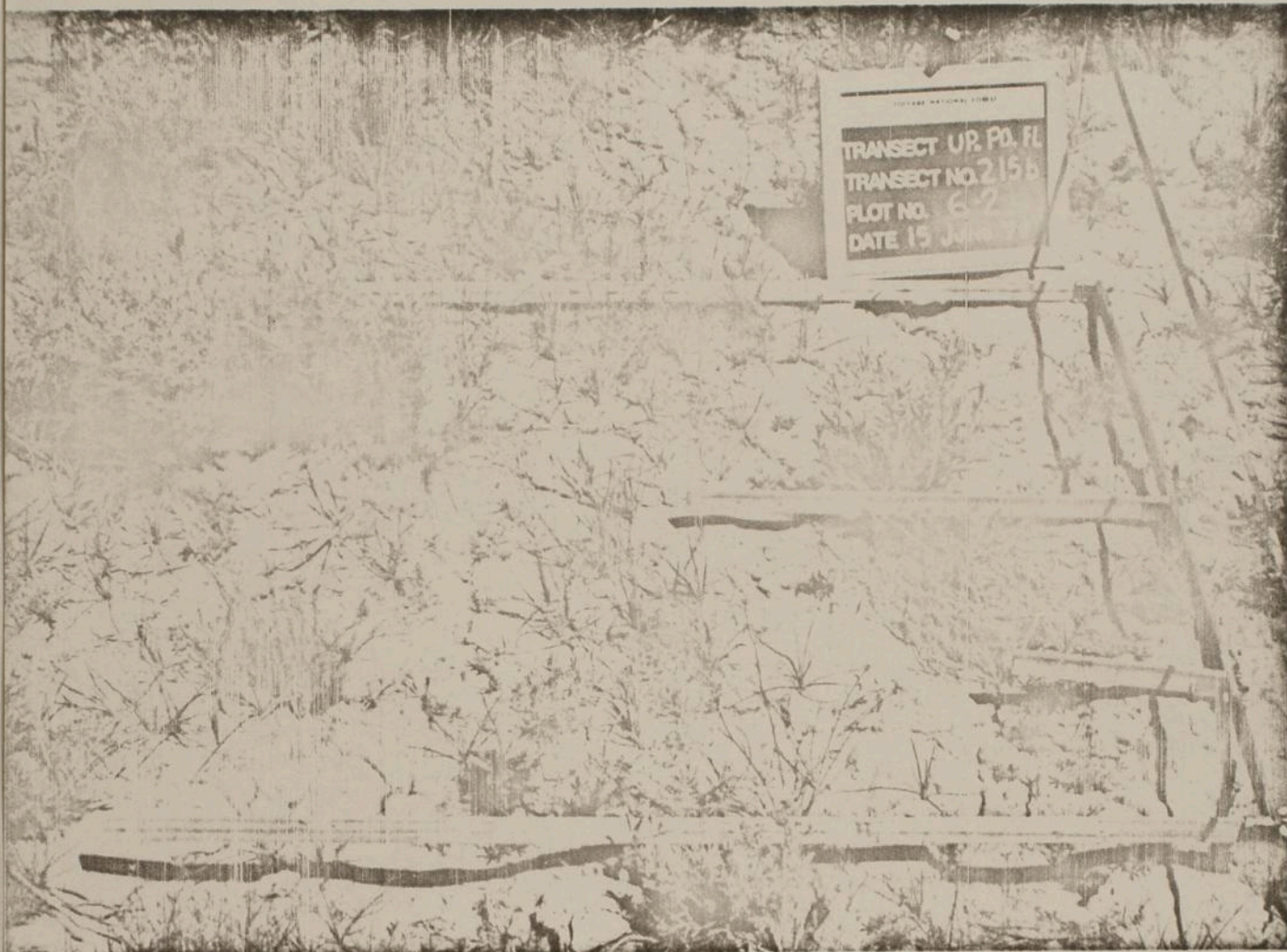
FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_  
 PHOTO BY Saile Kinnel DATE 15 June 79 HOUR Ca. 0830 ADST  
 TYPE CAMERA SLR-35mm LENS 55mm FILM 400 ASA Kodak color  
 SHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS clear, calm



## LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

#6 General view - from OM Ref posts looking  
 S10°W. Note the unevenness of the soil surface -  
 with many "hummocks" which are sparsely  
 vegetated. These could be old rodent mounds  
 & also could result from differentials in  
 shrink-swell, frost heaving and wind erosion  
 - or a combination of all these and more.

## RANGE PHOTO POINT RECORD

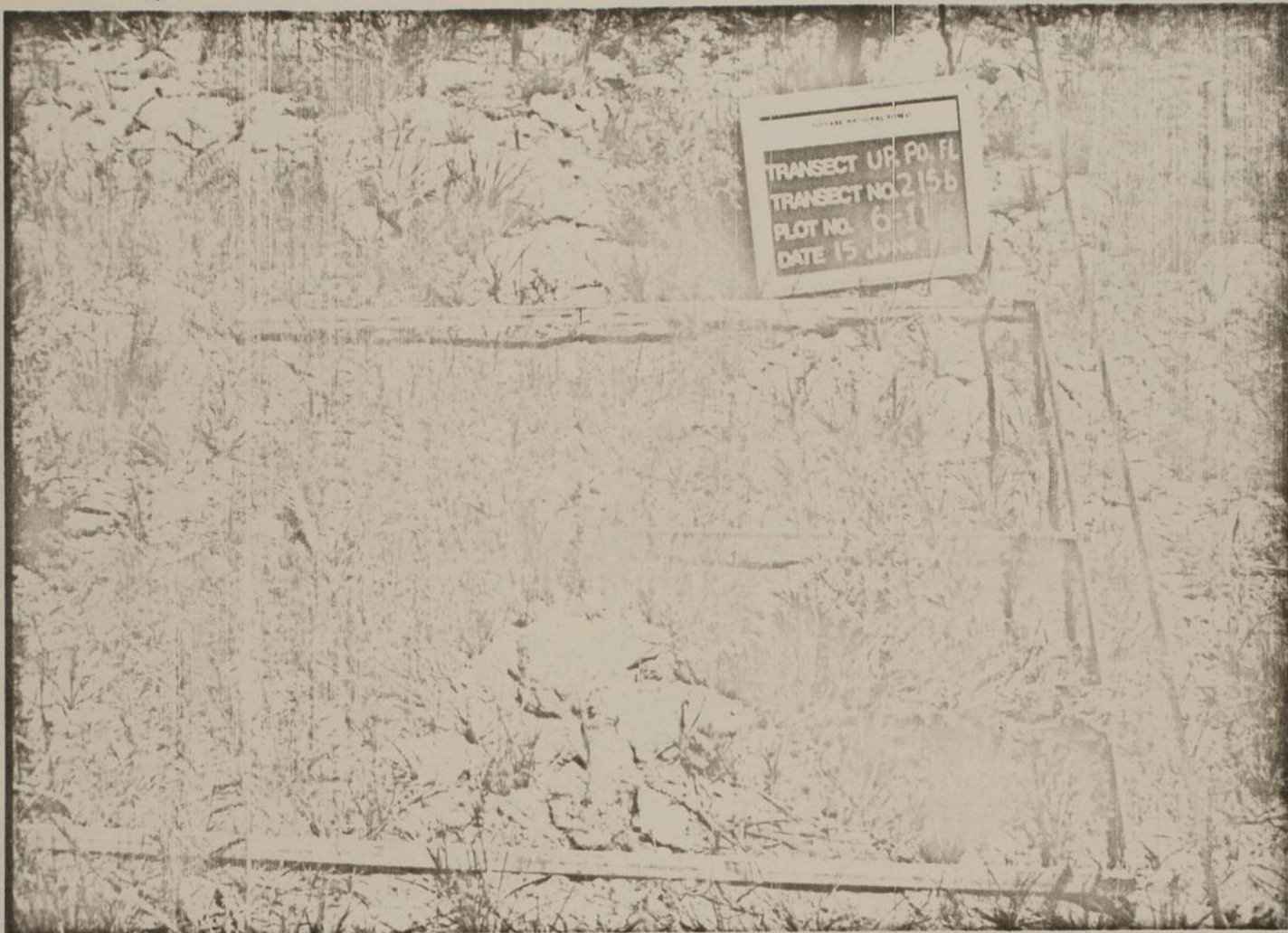
Upper Powell flat  
215bFOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY J. Kneal DATE 15 June 79 HOUR ca 0930 PDST \_\_\_\_\_TYPE CAMERA SLR 35mm LENS 55mm FILM 400 ASA KodacolorSHUTTER SPEED 1/500 APERTURE f/6 WEATHER CONDITIONS clear calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo of the 6-2 plot. In photo: Antennaria can  
bolanderi, Stipa cornata, Elymus triticoides, Carex

Upper Powell flat  
15 June 79

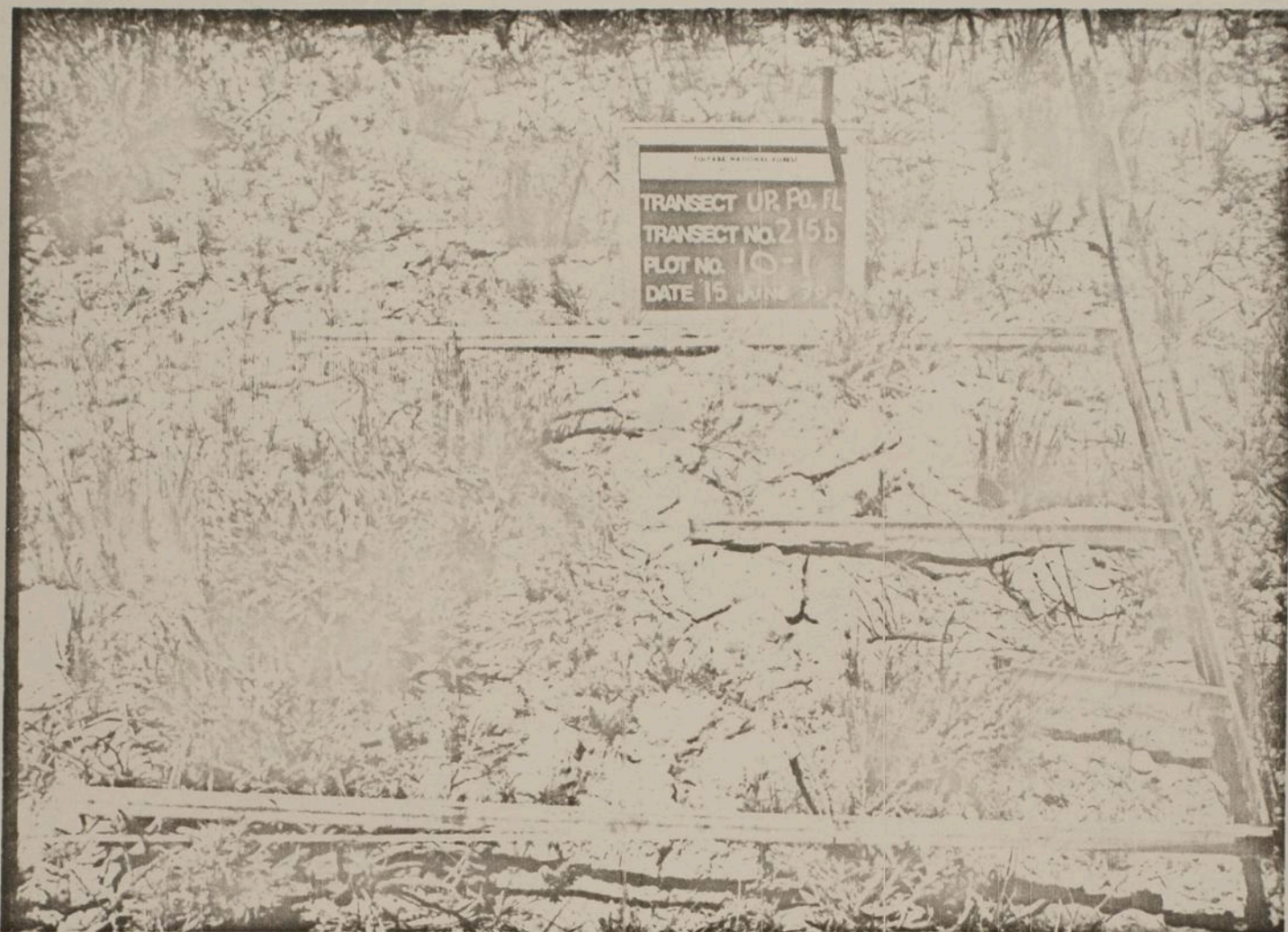
## RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY J. Russell DATE 15 June 79 HOUR 0930 PDSTTYPE CAMERA 35mm SLR LENS 55mm FILM 400 ASA KodacolorSHUTTER SPEED 1/500 APERTURE f16 WEATHER CONDITIONS Clear, calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Plot 6-11 - (between 10m & 11m markers). The 10m pin is under the lower rt. corner of the frame.

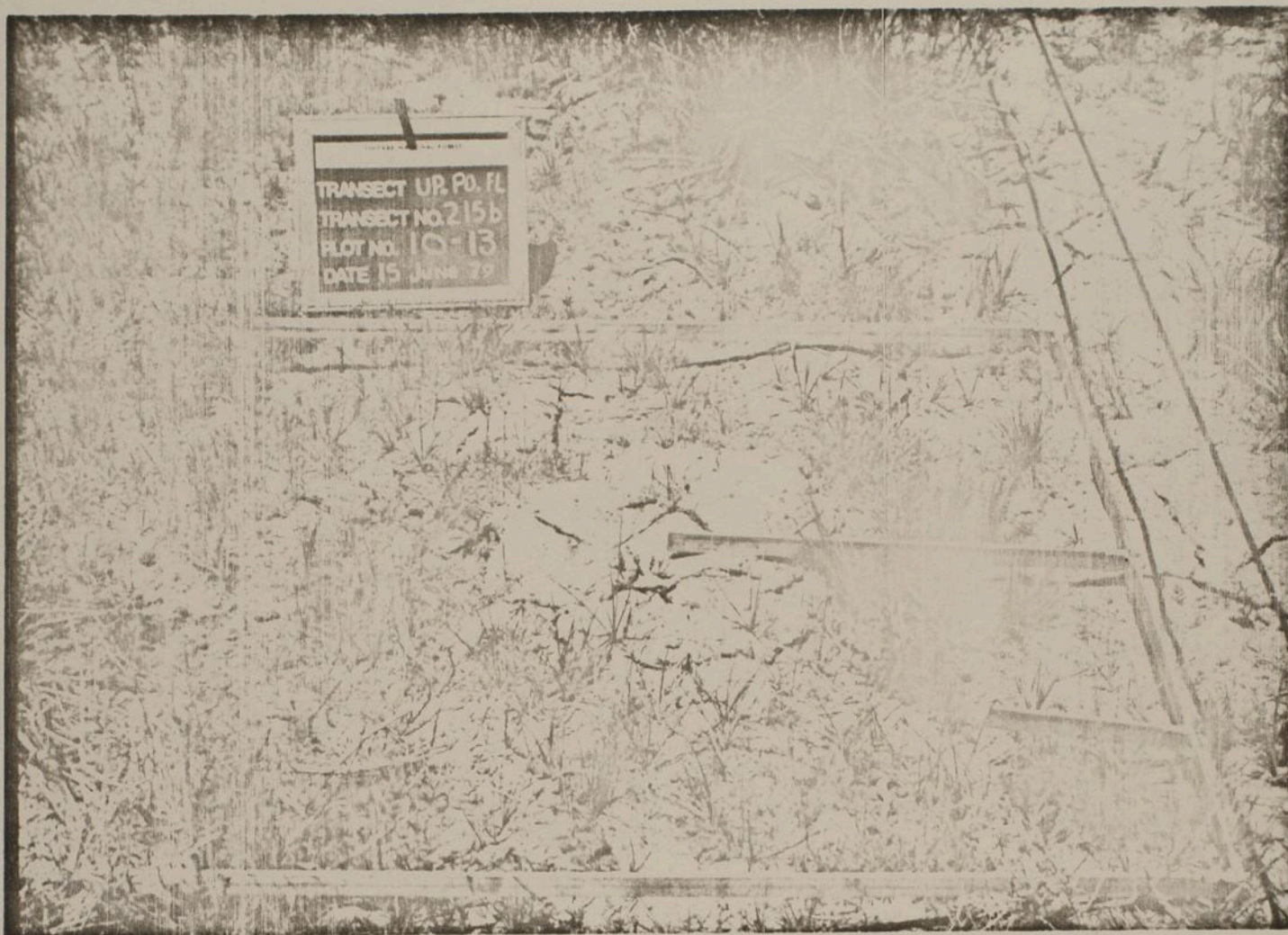
## RANGE PHOTO POINT RECORD

Upper Powell flat  
2156FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY J. Reveal DATE 15 June 79 HOUR ca 1030 PDSTTYPE CAMERA 35mm SLR LENS 55mm FILM 400 KodacolorSHUTTER SPEED 1/500 APERTURE F14 WEATHER CONDITIONS clear calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED, ETC.

Photo of the 10-1 plot - between 0 + 1 meter.  
Note cracks in soil

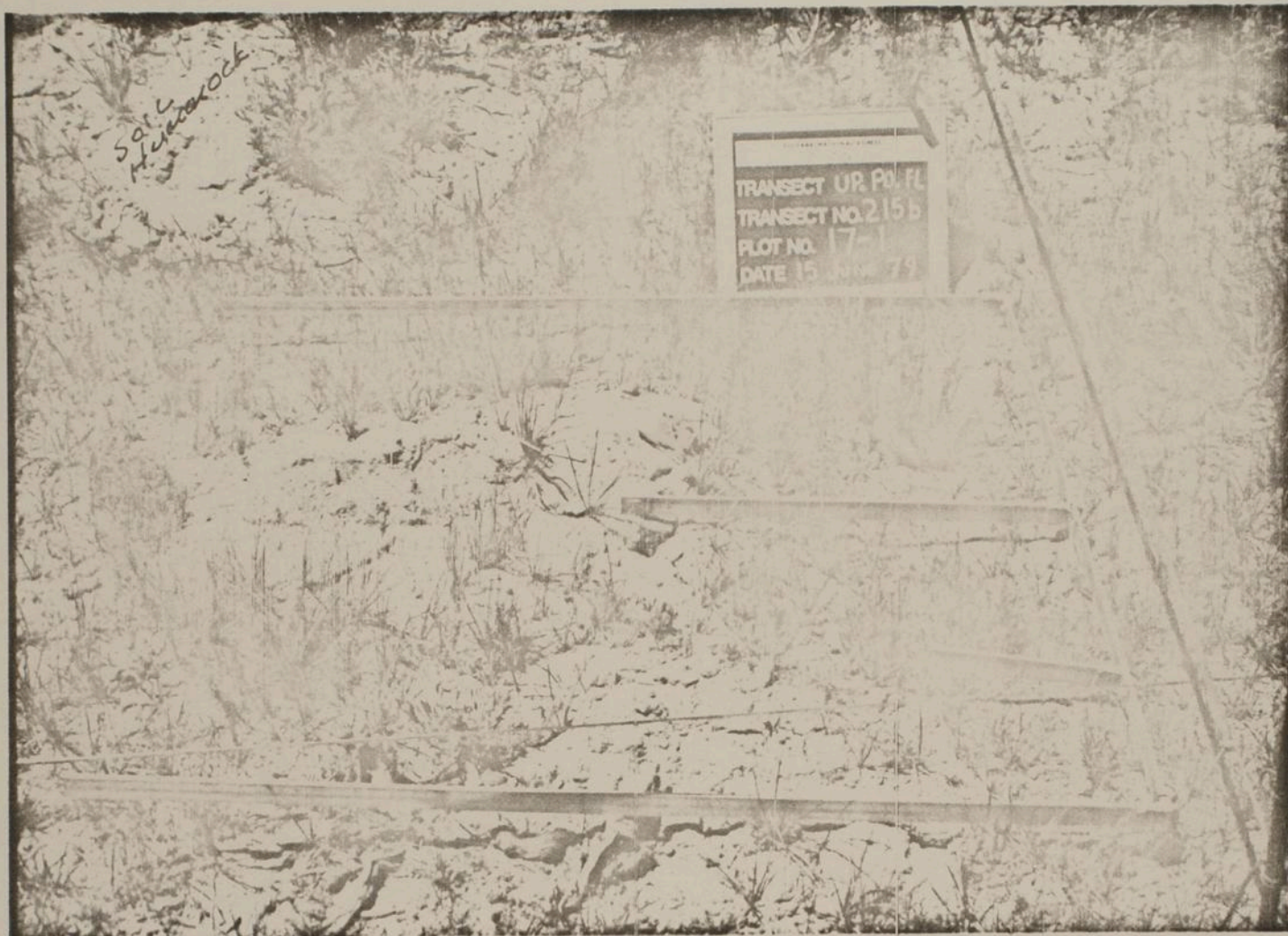
## RANGE PHOTO POINT RECORD

*Upper Powell flat*FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY J. Kneal DATE 15 June 79 HOUR 1030 PDSTTYPE CAMERA SLR 35mm LENS 55 mm FILM 400 ASA KodacolorSHUTTER SPEED 1/500 APERTURE f14 WEATHER CONDITIONS clear calm

LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

*Photo of Plot 10-13 - between the 12 & 13 m. points  
on tape.*

## RANGE PHOTO POINT RECORD

upper Powell flat  
215bFOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_PHOTO BY J. Knevel DATE 15 June 79 HOUR ca 1200 PDSTTYPE CAMERA SLR 35mm LENS 55m FILM 400 ASA KodacolorSHUTTER SPEED 1/500 APERTURE F16 WEATHER CONDITIONS clear, calm

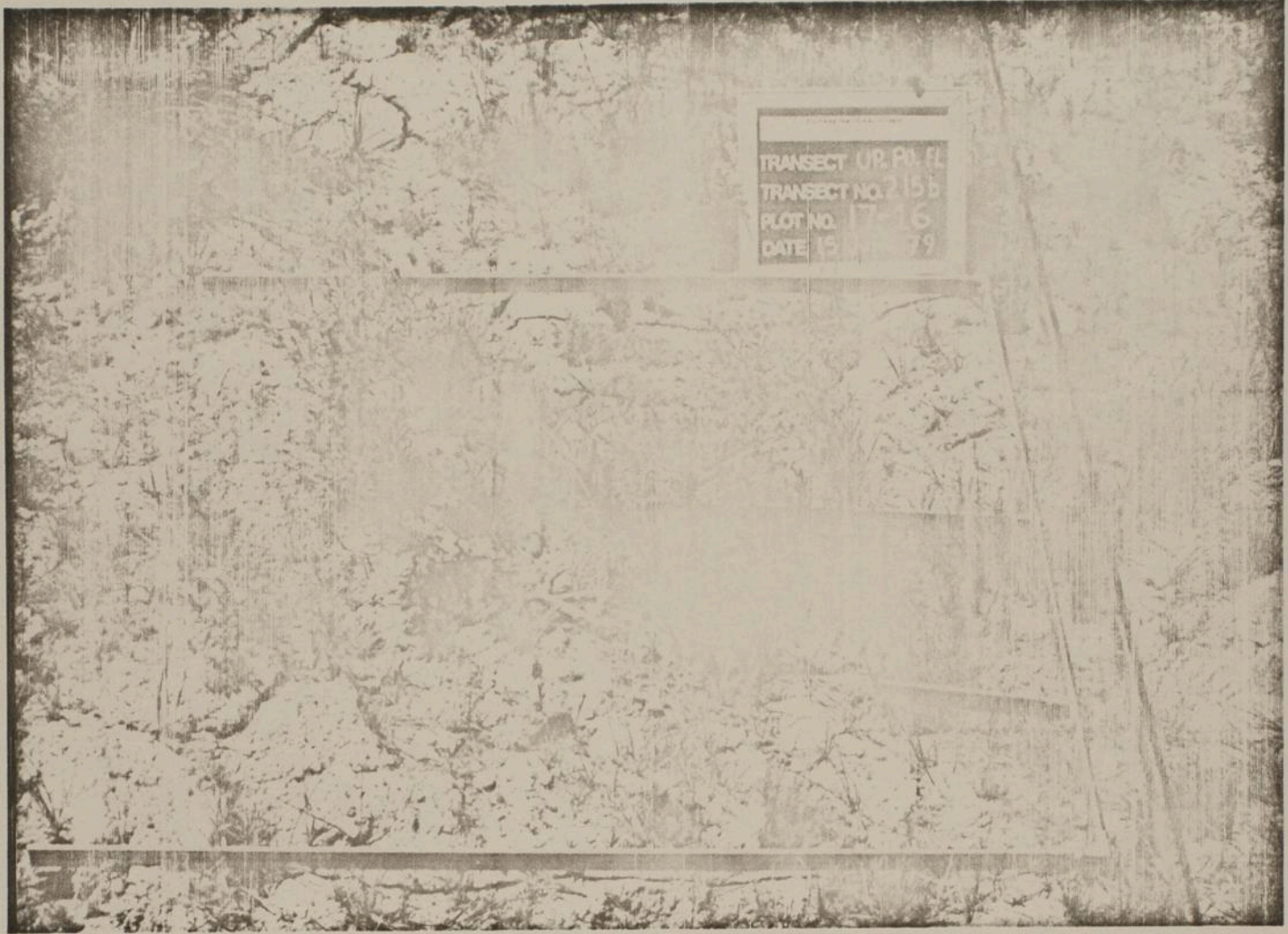
## LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo of the 17-1 plot - between 0 + 1 meter.  
 The 0-m pin on transect is at the lower right corner of frame. In photo: *Elymus triticoides* & *Stipa*. In picture center, at end of the 50 cm bar & extending under the near 1 meter bar, is a hummock of soil which has modified plant density downward. I believe these hummocks are old gopher mounds. Another appears in the upper left of photo.

Upper Powell flat  
215b

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_  
 PHOTO BY Jack Ruvard DATE 15 June 79 HOUR 1200 PDST  
 TYPE CAMERA 35mm SLR LENS 55mm FILM 400 asa Kodacolor  
 SHUTTER SPEED 1/500 APERTURE F16 WEATHER CONDITIONS Clear calm  
to lt. breeze



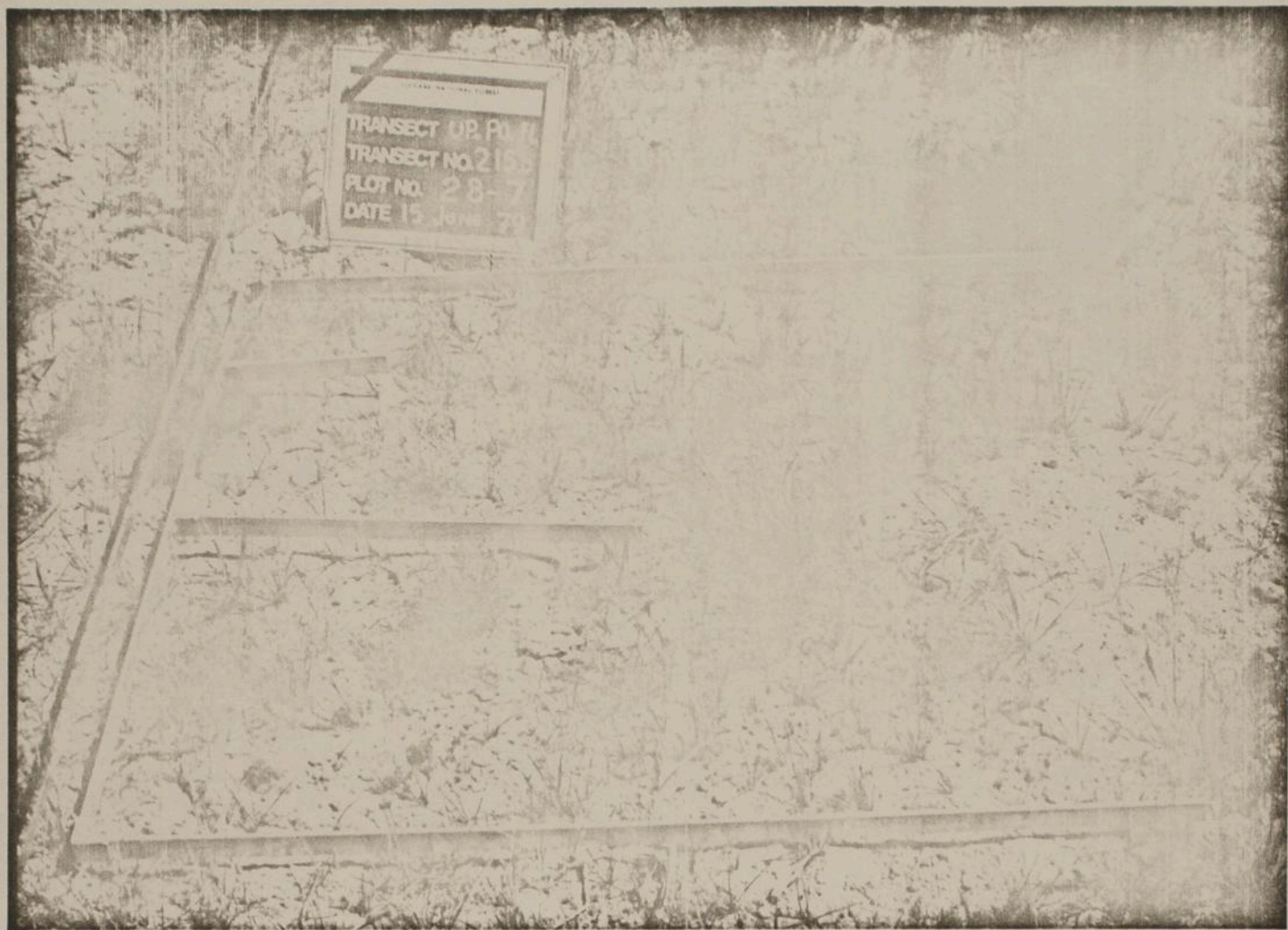
LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo of the 17-16 plot - between the 15m & 16m  
marks on tape.

Upper Powell Flats  
215b

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_  
 PHOTO BY J. Reed DATE 15 June 79 HOUR 01430 PDST  
 TYPE CAMERA 35mm SLR LENS 55mm FILM 400 ASA Kodak  
 SHUTTER SPEED 1/500 APERTURE F16 WEATHER CONDITIONS clear calm

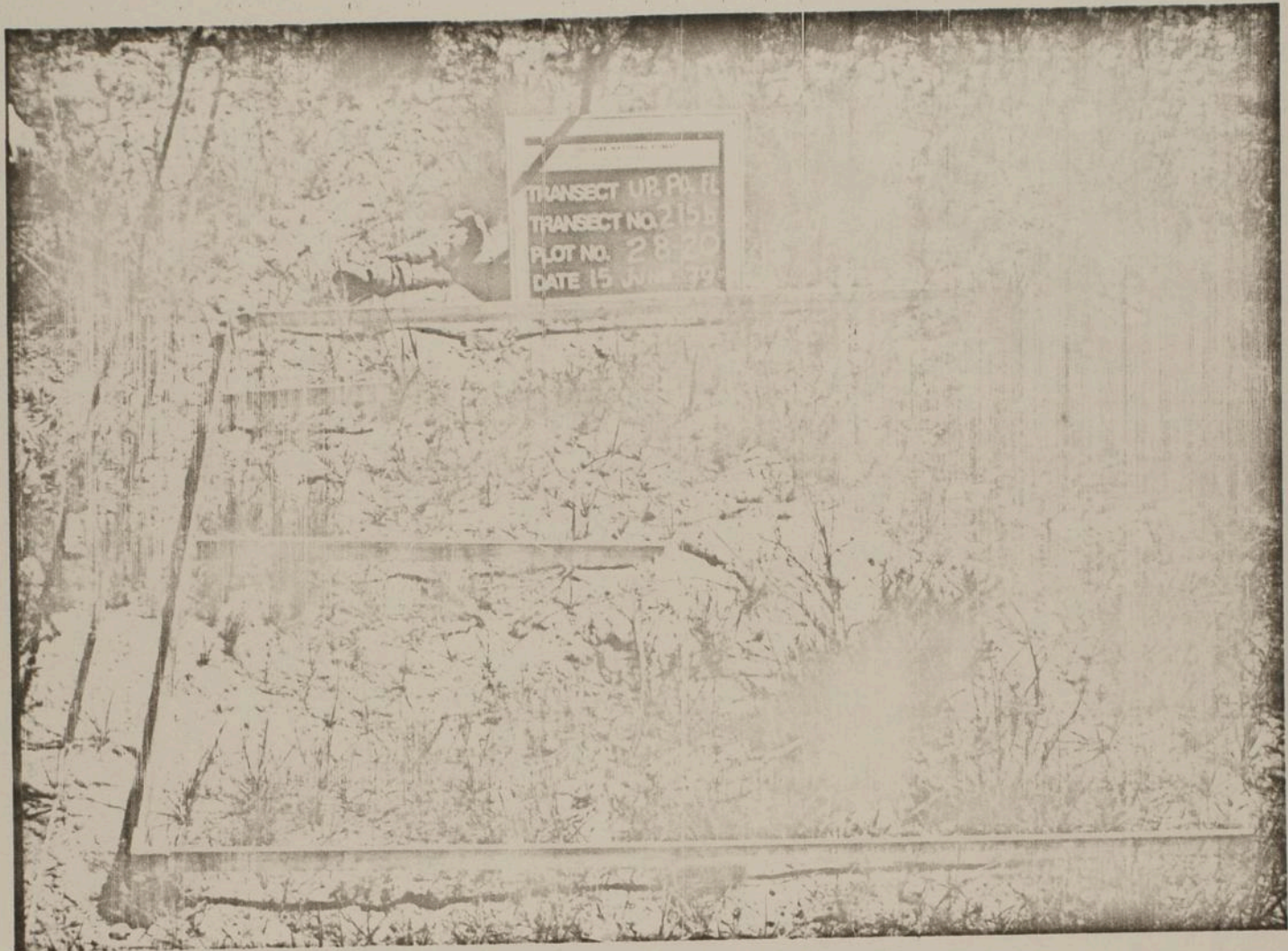


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo of the 28.7 plot - between the 6m & 7m  
marks on tape.

## RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT \_\_\_\_\_  
 PHOTO BY J. Keneal DATE 15 June 79 HOUR Ca 1430 PDST  
 TYPE CAMERA 35MM SLR LENS 55mm FILM 400 ASA Kodacolor  
 SHUTTER SPEED 1/500 APERTURE F14 WEATHER CONDITIONS Clear, calm



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

• Photo of the 28-20 plot. Lower left corner of frame rests on the 20 m. pin.

PURCHASE ORDER

To: (seller)

Clay Gautier  
3820 Swift St  
San Diego CA 92104

Furnish to: (consignee)

Jack L. Reveal  
3843 Ingraham - F309  
San Diego CA 92109

Assist the consignee perform the field work necessary to set up and read twelve (12) range plot transects (macro-plots) as per specifications in contract No. RFQ 17-8-79 issued by the U. S. Forest Service, Bridgeport Ranger District. The twelve plots are identified as 206a, 208a, 208b, 208c 208d, 215a, 215b, 215c, 238a, 243c, 244b and 245a. Seller will furnish his own camping gear and subsistence; consignee will furnish transportation in the field. Work will be performed between 3 June and 30 June, 1979.

For the job: \$620.00

Agree:

Clay Gautier  
Clay Gautier

June 3 1979  
date

Jack L. Reveal  
Jack L. Reveal

\_\_\_\_\_ 1979  
date

*Paid bal of 520: on 8 Aug 79 by check #1851*

*Clays address - 3820 Swift Ave  
Apt 4 92104*



Senior Scouting offers girls the opportunity to explore a wide variety of careers. The high school age girls earn aide badges through studying a career and then working as

a volunteer in the field. Rena Lipschultz, a health care aide, checks Michelle Kuli's blood pressure at the council's annual health clinic.

# MAY 1979

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>Moving? Take Girl Scouting along! Call your Girl Scout office. They will introduce you to Girl Scouts in your new community.</p>		<p>1 Law Day Loyalty Day</p>	2	3 <p>1st Quarter</p> <p>Paris lunch</p>	4	5 <p>Cinco de Mayo</p>
6	7	8 <p>Bridgmont, 2 pm Pro-work Conf.</p>	9 <p>do plot # 13</p>	10 <p>do plot # 12 wills in</p>	11 <p>Full Moon</p> <p>Rat. San Diego</p>	12 <p>SCAS meeting Girl Scout Health Clinic Elorence Nighygrate's Birth day SSBC: Parkville Mo</p>
13	14	15	16	17	18 <p>Last Quarter</p>	19
<p>Mother's Day</p>	20	21	22	23	24	25 <p>New Moon</p>
<p>Dolly Madison's Birthday</p>	27 <p>Rothstein Korn Mason</p>	28 <p>To BP</p>	29 <p>not</p>	30 <p>not</p>	31 <p>Ascension Day</p>	<p>APRIL</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</p> <p>JUNE</p> <p>3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30</p>

The favorite activity for nearly every camper at Lakota's summer camp is horseback riding. Girls may trail ride or they may be part of a special mounted unit in which they

learn to groom, bridle, saddle, and ride their "own" horse (Elizabeth Butcher)

# JUNE 1979

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
MAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	JULY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		Girl Scouting doesn't take a vacation. There are local day camps, resident camps, and many troops meet throughout the summer. Call the Girl Scout office.			1st Quarter
3 Pick up Bronco at C.C. Ford	4 S.A.F.S. room To Buffalo- Park camp at Powell Springs Buff 5.0	5 5th Power Powell Flat 212		7 overnight Motel 15. Ford	8	9 Jude partly Sue Ellen camp on Young Cr. near Brady's part.
10 Full Moon Rafael + began Sawmill Ex camp at Henry Cr.	11 Sawmill Ex El Sawmill camp at Henry Crack Plot 17	12 furnace Sawmill by noon - PM w/ Barry Sweetie Motel	13 fabric store	14 do Summer	15 do Powell	16 Post
17 Last Quarter 9:30 to 5:30 out	18 to Summer Motel	19 do 5th grade Motel	20	21 Summer Begins	22 LA City Schools Last Day	23 Return Bronco to C.C. Ford B. Ford
Father's Day 24 New Moon	25	26	27	28	29 Return from B. Ford	30



Plot # \_\_\_\_\_

TOIYABE

Date \_\_\_\_\_

Name \_\_\_\_\_

MACROPLOT CHECKLIST

Vehicle: gas \_\_\_ oil \_\_\_ water \_\_\_ tires \_\_\_ Odom. reads \_\_\_\_\_

Equipment & Materials:

- |                          |                         |
|--------------------------|-------------------------|
| ___ 6' steel posts - 2ea | ___ 30 m tape           |
| ___ 48" rods-2 ea.       | ___ 20 m tape           |
| ___ 18" rods - 20 ea     | ___ 2 m tape            |
| ___ Blumb bob            | ___ Camera              |
| ___ Singlejack           | ___ Film                |
| ___ Chalk bd & chalk     | ___ Pencils             |
| ___ Tatum holder         | ___ Plain paper         |
| ___ 1 m frame            | ___ Manila Envelopes    |
| ___ 0.5 m frame          | ___ Flagging            |
| ___ Air photo(s)         | ___ Plant manual        |
| ___ Topo map             | ___ Altimeter           |
| ___ Macroplot diagram    | ___ Photo point record  |
| ___ MP Sheets form       | ___ Plant list form     |
| ___ Frequency trend form | ___ Line intercept form |
| ___ Ground cover forms   | ___                     |
| ___ Compass              | ___                     |
| ___ Center punch         | ___                     |

\_\_\_ Reference posts driven ⊥

\_\_\_ 0m & 30m pins set & centerpunched ⊗

\_\_\_ Dist. from downhill RP to 0m & 30m pins recorded

\_\_\_ 6m transect pins (3 ea) driven & center punched

___ 10m	"	"	"	"	"	"	"	} ___ Tape heights recorded
___ 17m	"	"	"	"	"	"	"	
___ 28m	"	"	"	"	"	"	"	

\_\_\_ all transect pins located on MP sheet by ⊗

\_\_\_ Photograph 0m to 30m baseline w/chalk bd. at 10m

\_\_\_ Photograph 30m to 0m " " " " " "

\_\_\_ Photograph two general views w/ chalk bd. •

\_\_\_ Make photo records sheets; annotate MP sheet records →

2 - Macroplot Checklist

- 6m transect read -  Tape height ea end recorded  
 Freq. data;  Grd Cover;  Line interc.;  
 2 plot photos taken;  photos located on MP sheet
- 10m transect read -  Tape hts. ea end recorded  
 Freq. data;  Grd cover;  line interc.  
 2 plot photos taken;  photos located on MP sheet
- 17m transect read -  Tape hts. ea end recorded  
 Freq. data;  Grd Cover;  line interc.  
 2 plot photos taken;  photos located on MP sheet
- 28m transect read -  Tape hts. ea end recorded  
 Freq. data;  Grd cover;  line interc.  
 2 plot photos taken; photos located on MP sheet
- Frequency standards checked.  Adequate;  inadequate.  
 Add. transect installed at  m; located on MP sheet    
 Freq. data;  Grd cover;  line interc.  
 plot photo taken - 2 ea.;  photos located/ MP sheet
- New frequency checked.
- Heading complete on MP sheet
- Complete Plant List & phenology
- Write notes on plot C/T
- Pin-prick plot location on Air Photo; enter data
- Locate MP on Topo Sheet;  Make location sketch Map
- Take bearings, distances to topo features.
- Check each data sheet for completeness
- Check Photo record on MP sheet
- All Photo Point Record sheets made
- Check site for complete tool pickup
- Odometer readings?
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