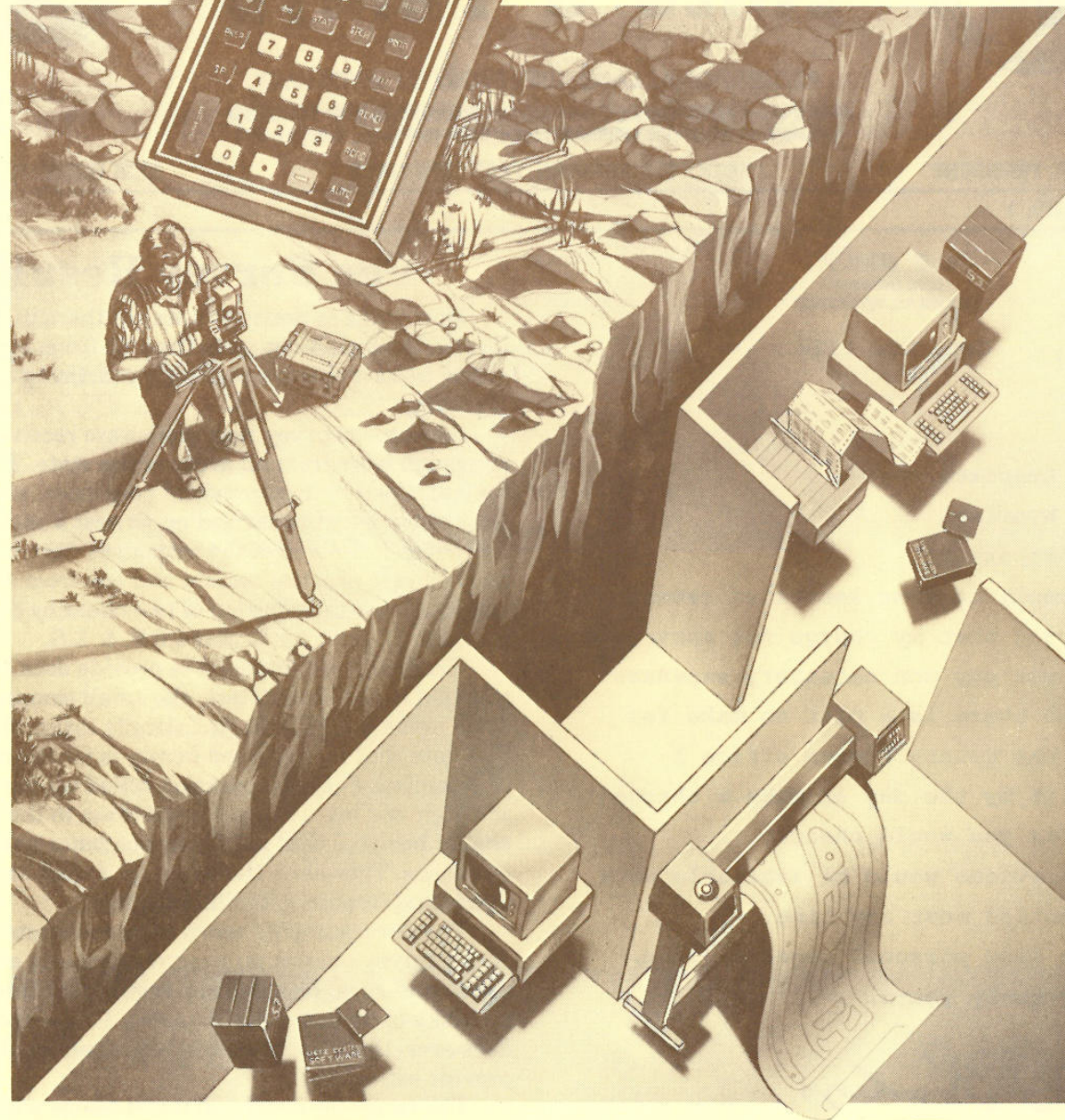


The Bridge

...Between your
Field & Office.



If your time is worth money, save more of it with the SDR Electronic Field Books from Lietz. Choose the SDR24, SDR22 or SDR20; each has benefits that make your job easier.

These versatile instruments "talk" to your office computer, transmitting data directly from the field, in an instant. The SDRs deliver more memory, more speed, more power...but with all their high-tech advantages, they're surprisingly

affordable and easy to learn.

Isn't it time to give your business the power of automated data collection? Call today for complete details on the SDR20 Series, from Lietz.

- ▶ Up to 128K RAM memory
- ▶ 64K PROM (program) memory
- ▶ Uploadable feature code stack
- ▶ Direct printing option
- ▶ Protection from accidental data loss



BRUNSON
INSTRUMENT CO.
2895 W. 8TH AVE.
DENVER, CO 80204
(800) 729-1729



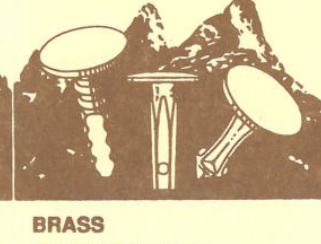
© 1988, The Lietz Company

SURV-KAP. LANDMARK DISCOVERIES.



ALUMINUM

SURVEY MARKERS FOR REBAR
CONCRETE AND PIPE,
MONUMENTS, FLUTED STAKES,
DELINEATOR POSTS,
ACCESS COVERS



BRASS

CONCRETE MARKERS
CAST BRASS



FIBERGLASS

BOUNDARY STAKES

STAINLESS STEEL

MONUMENTS
STAKES

CATALOG

(602) 622-6011

P.O. BOX 27367

FREE AND PRICE LIST

CALL

1-800-445-5320 or WRITE

SURV-KAP

TUCSON, ARIZONA 85726

FAX (602-792-2030)

B.L.M. Update

Survey Plat Approvals
as of March 15, 1990;

Resurveys: T.50N., R.75W.
T.50N., R.76W.
T.52N., R.70W.
T.52N., R.71W.
T.42N., R.116W.
T.14N., R.81W.
Supplementals T.57N., R.62W.
T.58N., R.62W.
T.56N., R.94W.

Plat of Lots in Veteran Wyoming
Townsite T.23N., R.63W.

PROFESSIONAL LAND SURVEYORS OF WYOMING

1816 CENTRAL AVENUE, CHEYENNE, WY 82001
AFFILIATE - AMERICAN CONGRESS ON SURVEYING AND MAPPING
MEMBER - WESTERN FEDERATION OF PROFESSIONAL SURVEYORS

MEMBERSHIP APPLICATION

DATE _____

NAME _____ WY REG. NO. _____

HOME ADDRESS:
STREET OR BOX _____

CITY _____ STATE _____ ZIP _____

PHONE _____

BUSINESS ADDRESS:
STREET OR BOX _____

CITY _____ STATE _____ ZIP _____

EMPLOYER _____

TITLE _____

IF IN PRIVATE PRACTICE, WHICH COUNTIES DO YOU WORK IN? _____

STATES OTHER THAN WYOMING THAT YOU ARE REGISTERED IN: _____

CLASS OF MEMBERSHIP APPLIED FOR: (check one)

- _____ MEMBER, ANNUAL DUES \$35 (WYOMING REGISTRATION REQUIRED)
- _____ ASSOCIATE MEMBER, ANNUAL DUES \$25 (EMPLOYED UNDER THE DIRECTION OF A WYOMING REG. LAND SURVEYOR AND WORKING TOWARDS L.S. LICENSE)
- _____ SPECIAL MEMBER, ANNUAL DUES \$20 (THOSE NOT MEETING QUALIFICATIONS OF MEMBER OR ASSOC. MEMBER, BUT WHO HAVE SPECIAL INTEREST IN, OR ASSOCIATION WITH LAND SURVEYING)
- _____ SUSTAINING MEMBER, ANNUAL DUES \$50 (PERSON, INSTITUTIONS OR CORPORATIONS DESIRING TO ASSIST ORGANIZATION FINANCIALLY)

I AGREE TO OBSERVE THE CONSTITUTION AND BY-LAWS OF THE PROFESSIONAL LAND SURVEYORS OF WYOMING AND THE CHAPTER TO WHICH I WILL BELONG AND TO SUPPORT IT IN ITS ENDEAVORS.

(APPLICANT'S SIGNATURE)

PLEASE SUBMIT DUES ALONG WITH APPLICATION (PRO-RATED) FOR THE REMAINDER OF THE CALENDAR YEAR.

PLSW
P.O. Box 904
Casper, WY 82602

Address Correction Requested

BULK RATE
U.S. POSTAGE
PAID
CASPER, WY
PERMIT NO. 208

Board Of Directors' Meeting

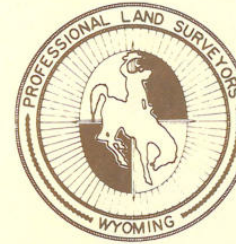
February 1, 1990
Gillette, Wyoming

- A. Review of Minutes: The minutes of the December 10, 1989, Board of Directors' Meeting were approved.
- B. 1. Report of the Bylaws and Constitution Committee — The new Constitution and Bylaws have been mailed to the members and will be considered at the annual meeting.
2. Report of the Legislative Committee - The report will be given at the annual meeting.
3. Report of the Membership Committee - 3 new members and 1 new special member were proposed and approved: Westerfield, Peterson, and Pugh, as members; and Lee as a Special Member.
4. PLSW/ "Sideshots"/ "Lines and Points" — A discussion of the new newsletter was held; most directors feel very favorable about "Lines and Points." The Board of Examining Engineers may use "Lines and Points" to report to all Professional Land Surveyors, paying for the additional copies and postage. Don Davis said that South-Central Chapter will offer the take the editorship for at least one year more. The board of Directors voted to recommend to the members at the annual meeting that PLSW move our financial support from "Sideshots" to "Lines and Points."
5. Certified Land Corner Recordation Forms - Some members have objections to various parts of the new forms. Scott or Bryce may appoint a committee to review and recommend amendments to the Board of Examining Engineers' and Land Surveyors.
6. ACSM - Denver meeting and the PLSW booth - ACSM wants \$2200 for a booth, but PLSC has offered to find us a place in the non-commercial area. Among the items displayed may be PLSW cups, jackets, fieldbooks, Centennial Acres applications and other centennial items. Larry Perry is scheduling timeslots for tending the display.
- C. New Business
1. Committee Members - Scott will put out a list at the annual meeting of committees and urge members to sign up as new committee members.
2. State Land and Farm Loan Board - PLSW has requested a public hearing concerning the new

- rules for surveys on state land, since many members are interested in these new rules.
3. Bureau of Land Management Geographic Information System - Professional Land Surveyors of Wyoming have received a mailing concerning this important new project.
4. Review of Annual Meeting Agenda - Add discussion of the Assessors' Mapping procurement. Insurance will be discussed at a Board of Directors' Meeting.
- D. Adjournment
- Attendance: Scott Pierson, President; Becky Braman, Secretary/Treasurer; R. L. Hudson, Director Northwest Chapter; Darrel L. Schlup, Director Northeast Chapter; Bill Braman, Director Southeast Chapter; Joe Popp, Director Southcentral Chapter; Larry T. Perry; Ray Connin; Don Davis; Steve Strang; Chris Asbury; John Dolinar

Gillette Calibrated Base Line

The U. S. Department of Commerce, National Geodetic Survey has recently published Calibration Base Line Data for the base line designated GILLETTE CBL. The base line is located on Forest Service land near Weston and can be utilized by anyone to calibrate survey instruments and electronic measuring devices. It was established through a cooperative effort of the Northeast Chapter of the Professional Land Surveyors of Wyoming, the Bureau of Land Management and the National Geodetic Survey. The effort to establish this base line began approximately one year ago and has involved a great deal of coordination between these organizations and alot of work by local PLSW members. Special thanks goes to Amax Coal and Carter Mining companies for their contributions and the local PLSW members who donated their time and efforts. For information on the base line contact Donald W. Patterson, Bureau of Land Management, P. O. Box 3768, Gillette, telephone 686-6750.



THE EQUALITY STATE SURVEYOR

LINES & POINTS



PROFESSIONAL LAND SURVEYORS OF WYOMING
AFFILIATE — AMERICAN CONGRESS ON SURVEYING AND MAPPING
MEMBER — WESTERN FEDERATION OF PROFESSIONAL SURVEYORS

BRYCE RUMPH, PRESIDENT

BECKY E. J. BRAMAN, PRESIDENT ELECT

RICK HUDSON, SEC.-TREAS.

VOLUME 2 NO. 1

APRIL 1990

L. C. BISHOP
CIVIL ENGINEER
DOUGLAS, WYOMING

Oct. 28, 1928.

Mr. J. C. Amspoker,
Glenrock, Wyoming.

Dear Mr. Amspoker:

In reply to your letter of recent date will say that my charge for surveying is \$15.00 per day and necessary expenses and in case there is a plat to make for filing in the County Clerks office I either do it by the day or make a charge of \$25.00 as you would choose.

My services would be available on a few days notice most any time.

With kind personal regards, I am,
Very truly yours,

L. C. Bishop

P. S. Regards the help will say that I can use a couple of your local boys who you could hire for about \$2.50 to \$3.00 per day. Where my boy works the charge is \$4.00 and he pays his own expenses. He would not be able to go except during vacation. He works in a party for the Highway department on Saturdays.

Compliments of Joe Popp

Fee Survey Results

How many surveying firms are there in Wyoming? It is believed that not more than 50 firms or private practice surveyors are presently practicing in Wyoming.

Seventeen survey responses were received and, the responses were from all areas of the state. The south central (Casper) area provided responses, southeast 4, west central southwest and northwest 2 each and the northeast 1. Sixteen of the responses were received from private practice owners and one from an employee. the distribution of responses by discipline included 12 L.S., 1 P.E. and 4 P.E. & L.S.

Originally, we intended to provide data by area in addition to the entire state. the small sample from some areas would yield statistically insignificant data. The data that is presented herein is for the entire state of Wyoming. For each question asked we have provided the high and low response in addition to the average. It should be noted that not all response answered all questions. Therefore, the averages are an average of the actual responses to that question.

The few comments received were directed at the ALTA survey questions, some respondents offered urban and rural fees and one respondent thinks it is too risky to do a non-ALTA survey. One respondent does everything on an hourly basis but, would not provide estimates.

The range for nearly all items seems wide and the averages, compared with other states, are low.

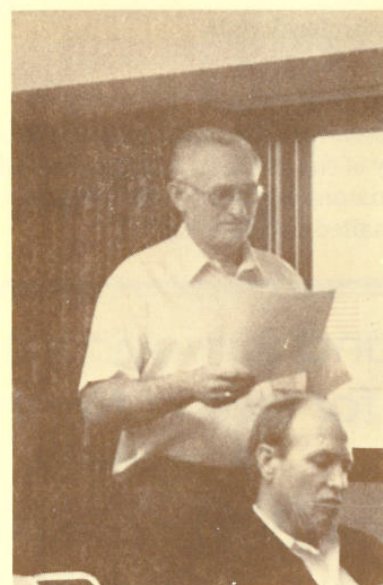
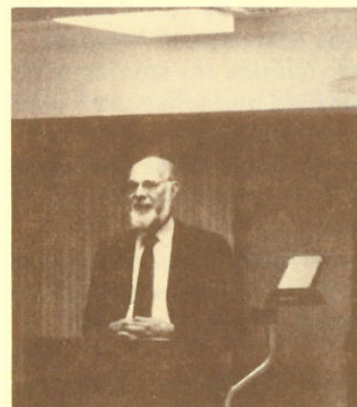
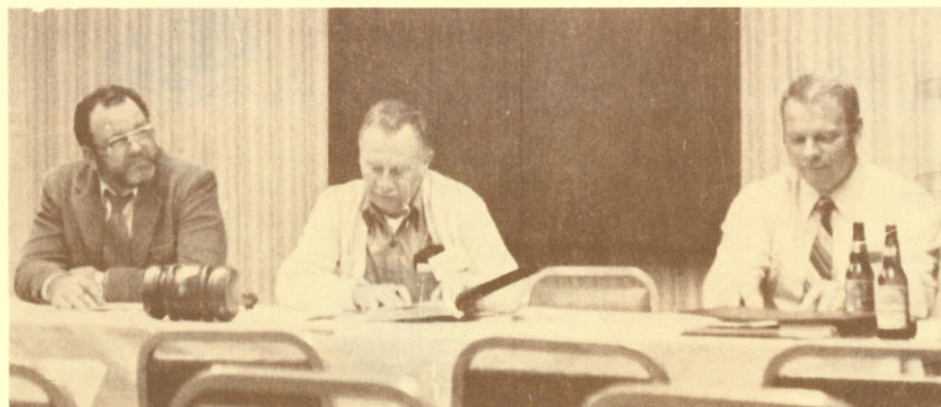
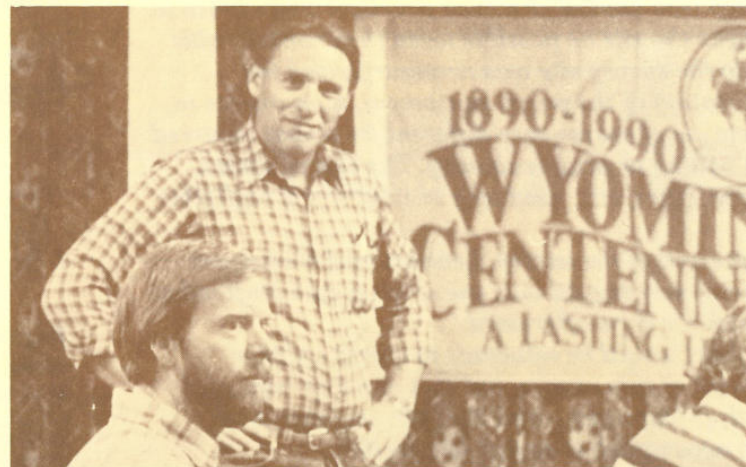
Several respondents indicated that they had no experience with expert witness services. From the ranges and averages, it appears that the liability and responsibility of an expert witness is not specifically understood by all.

The survey results are included herein.

"Every man owes a part of his time and money to the business or industry in which he is engaged. No man has a moral right to withhold his support from an organization that is striving to improve conditions within his sphere."

—Theodore Roosevelt

1990 Gillette



Editorial Potpourri

- Membership in PLSW - As stated in the last issue of Lines Points, we will be reducing our mailing list to PLSW members, advertisers and other newsletters. If you are not a member, consider joining now. If you are a member, encourage a non-member to join. An application form is included in this issue.
- Leonard Dowell, PLS, called from Oregon a few weeks ago. He wants to come back to Wyoming. If you can use Leonard's talents or know of someone looking for a good surveyor call Leonard at 503-981-8337.
- Your Thoughts - "Lines & Points" is your publication. We want to know what you want published. Write to us at P.O. Box 904, Casper, Wyoming 82602 or tell your area director.
- Expert Witness - Did you know that medical professionals charge \$200.00/hour for depositions and court appearances?
- ALTA Who? - Did you know the American Congress on Surveying and Mapping and the American Land Title Association (ALTA) have published minimum standard detail requirements for land title surveys? Some of the fee survey respondents didn't know.
- Engineers or Surveyors - Two of the three officers of the Wyoming Engineering Society are surveyors.
- Support your Advertisers - The advertisements in this issue help to make this publication possible. The advertisers support PLSW and stand ready to provide you with the products or services they offer. Support your advertisers.
- Next Issue - The tentative deadline for submitting material will be May 15, 1990.
- PLSW's Newsletter - The PLSW Board and the general membership voted to drop "Side Shots" and support "Lines & Points" at the convention in February. "Lines & Points" is officially PLSW's newsletter.



Gard Talbot
Home 234-0632

Drafting and Engineering Supplies
Complete Reproduction Service

145 North Durbin
Casper, Wyoming 82602
In State Wats 1-800-231-9743

P. O. Box 1276
Phone 265-2990

Advertising Information

Camera ready advertisements with payment should be mailed to PLSW, Box 904, Casper, WY 82602.

Advertising rates are as follows:

	Year	Issue
Full page	\$300	\$80
Half page	\$175	\$50
Quarter page	\$100	\$30
Business card	\$ 30	\$10
Classified	40¢ per word/issue	
Employment	Free	

Special Rates for PLSW Chapters

Deadline for fall issue - October 15, 1989

President's Message

Bryce E. Rumph, P.L.S.

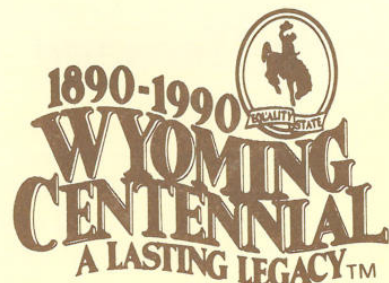
I was very disappointed to not be able to attend the general membership meeting of the P.L.S.W. in Gillette on February 1, 1990. I was sick in bed with a high fever the night before and thought it best not to expose anyone else to it.

Most people I talked to had a good time at the W.E.S. Convention in Gillette. However there are some people in the P.L.S.W. who are not happy with the recognition we, as surveyors, get from the Professional Engineering organizations. These people may have a legitimate reason to feel this way. I, for one, have also felt this way at times in the past. There are those within the engineering professions who treat surveyors as subordinates since most surveyors do not have college degrees. I think this is very unfortunate since by working together we can help build a better future for all of Wyoming and in turn help the image of both professions. Many of our members are in business with Professional Engineers while other P.L.S.W. members are both P.E. & L.S.'s.

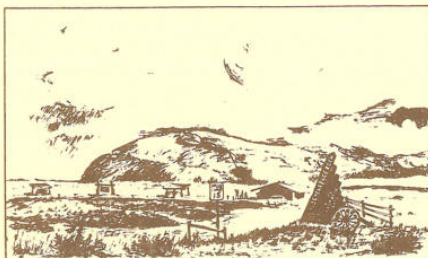
Some of the people who are unhappy with this situation would like to see the Professional Land Surveyors split off from the engineering organizations and hold our own annual convention separate from the Wyoming Engineering Society. I do not think this would be a good idea as it takes a lot of money and effort to put on a good convention and land surveyors as a whole are not known for being financially able to fund such a convention. More exhibitors would be attracted to the kind of convention that was held in Gillette in February 1990. Even at a convention of this size, it was difficult to raise money through contributions.

We have many talented people in P.L.S.W. many of whom are capable of teaching surveying classes or putting on seminars. This was shown at the 1990 W.E.S. Convention. The engineers could see that we are a strong organization and dedicated to the surveying profession. I know they recognized the contribution that we surveyors made to the 1990 W.E.S. Convention. The Northeast Chapter of P.L.S.W. worked together with the Gillette Chapter of the N.S.P.E. to put on the W.E.S. Convention. A lot of dedication by a lot of people was put forth to pull it off which paid in the end.

In conclusion, I think it would be better for P.L.S.W. to hold our annual convention at the time of the W.E.S. convention, when most of the other engineering and surveyor societies are also meeting. Some of our members belong to more than one organization. I'm sorry if some people were unhappy with the Gillette Convention but most people enjoyed themselves and hopefully are looking forward to next years convention in Cody.



Wyoming's Centennial Acre



*A Piece of the Past... A
Gift for the Future...*

Editor's Preface: As you may know, the great cowboy state of Wyoming will be celebrating its Centennial Year in 1990. As part of the fund-raising activities, we are selling a Centennial Acres in parcels of one square foot. This acre is located adjacent to Independence Rock, which many of you may have visited, on the Highway between Casper and Rawlins, just west of Alcova Reservoir. This is your chance to not only lend us a helping hand but to acquire a "piece of Wyoming" complete with an Official deed and commemorative Certificate. The survey of the property was done by members of the Professional Land Surveyors of Wyoming as a public service. *Ordering information follows:*

For just \$10.00, you can now purchase a square foot of Wyoming near Independence Rock, located along the famous Oregon Trail. You'll receive a ceremonial deed and a copy of the plat to show your claim to ownership.

Not only will you be buying into a special part of history by participating in Wyoming's centennial celebration of its statehood, you'll also have a great gift for that special person for holidays, birthdays, graduations and other important dates.

The project, known as Wyoming's Centennial Acre, was initiated as an official Wyoming Centennial Activity by the Professional Land Surveyors of Wyoming when they surveyed the acre.

The money received from the sale of the square foot parcels will go towards funding the Wyoming Centennial Commission's activities and projects for Wyoming's 1990 centennial celebration.

Hurry! Parcels are limited. Complete the form below, include your check for \$10.00 for each parcel, and mail or carry to the Wyoming Centennial Commission, 122 W. 25th St., 1st floor East, Cheyenne, WY 82002, (307) 777-5844.

☐ **YES!** I want a *Piece of the Past... A Gift for the Future.* Please record _____ parcels for me in the Wyoming Centennial Acre.

Deed(s) in the name of: _____ @ \$10.00

Send to _____ Address _____

City _____ State _____ Zip _____

Please send completed form and payment to Wyoming Centennial Commission, 122 W. 25th St., 1st floor East, Cheyenne, WY 82002, (307) 777-5844.

WYOMING Centennial Acre Deed

Acre 1: Independence Rock

*The State of Wyoming, through its Wyoming Statehood Centennial Office
presents this deed prepared especially for*



John Quinn
Governor Mike Sullivan
Richard M. Hartman
Richard M. Hartman, Chairman
Wyoming Centennial Commission
Howard W. Johnson
Howard W. Johnson, Commissioner
Department of Public Lands
G.D. Fox
G.D. Fox, Public Lands
R.T. Max
R.T. Max, Wildlife Director
Wyoming Recreation Commission

*In consideration of an investment in *A Lasting Legacy*
of what is best in America, a piece of Wyoming, this deed
symbolizes interest in one square foot number
located in Natrona County, according to the Centennial
Plat, recorded with the Natrona County Clerk
on the 14th day of July, 1988.*

*The holder of this deed is entitled to the general enjoyment
of the proud heritage and glorious future of the Equality
State in recognition of the one-hundredth anniversary
of Wyoming's admission to statehood on July 10, 1890.*

This to the land described in this deed is subject to the provisions of W.S. § 2-1-102 and § 2-1-103. Such title is limited by right of the State of Wyoming to manage the land for the benefit of the general public and the deed holder's enjoyment of the land. Ownership is evidenced by this deed. Does not create the holder's right of use of the land different from that of the general public; nor does it obligate the holder to pay property taxes, assessments or any other fees or taxes commonly incident to the land.

The more things change!...continued

transit, the same type instrument which is standard equipment used by government survey parties on this type of work, an instrument which would cost new today around \$1000.

A jeep was used as the most practical conveyance to get as near the site as possible (even then considerable hiking to the survey site was necessary), and the transportation of the party, equipment, monuments to be set, etc., is of course very different from that incurred in open rolling or prairie country. The cost of stakes, flags, iron pipes, etc., used was in itself not a negligible item.

At the end of the survey, Lenhart and his helpers were completely fagged out; one of them was confined at home, sick for days afterward.

Lenhart would be reluctant to accept another assignment of this nature, but this one was requested – and with promptness – and the firm set other work aside to accomplish it as fast as possible.

The terrain in which metallic minerals are found is nearly always expensive country in which to survey – "jeep country" as we call it now. Before the advent of the jeep it was often a pack-horse job.

In my opinion the staking of this group of claims, at a cost for field and office work of only \$200 per claim, ran below the average cost for such claims; and I know that the reliability of the field work and map thoroughly substantiates the bill that has been presented.

If I can further acquaint you with the physical features entering into surveys of this nature out there in The Rockies, please command.

Yours cooperatively,

As seen, the idea of a \$1200 survey is one with many faces, and in this day and age, barely a day in the field, including a draftsman. It really is up to each and every one of us to educate our clients and to become more understanding of the laymans impression of us as professionals.

D.A.D.

Point of Beginning:

In descriptions, supposedly the first point on the bondary of the property being surveyed, but more likely, a nonexistent or obscure position as locative as "the check mailed two days ago!"

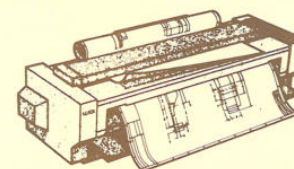
Land Surveying business
for sale in Northwest
Nebraska.
Call (308) 432-3487 after
6:00 p.m.

ATLAS REPRODUCTION

ENGINEERING, ARCHITECTURAL & DRAFTING SUPPLIES
Featuring Letraset Transfer Lettering System

We Have It!

The New Xerox 2510 Engineering Copier



Engineering reprographics with
copier convenience and quality ...
at an affordable price!

- Makes sharp, black-on-white prints from blueines, paste-ups, even rigid originals up to 1/4 inch thick.
- Copies drawings and prints full size up to 36 inches wide by any manageable length.
- Copies onto bond paper, vellum and polyester film.
- Affordably priced at just \$3,695.

CALL JOHN AGIN

IN CASPER AT 237-9523
STATEWIDE 1-800-372-3837



XEROX® and all identifying numbers herein are trademarks of XEROX CORPORATION.

DIAZO REPRODUCTION

- Blue line
- Black line
- Sepia
- Mylar
- Colored Diazo

FILM REPRODUCTION

- Positive
- Negative
- Autopositive
- KP-5
- TN-4

(To Scale - Reduced - Enlarged)

GLO PLATS

XEROX

Colored Card Stock - Vellum - Bond Paper

KROY 100 LETTERING SYSTEM

Look good
on paper



KROY



It's 1990.
Do you know where
your career is headed?

Join the American Congress on Surveying and Mapping and open the door to your future.

Name _____	
Address _____	
City _____	State _____ Zip _____
Home Phone _____	
Work Phone _____	
Title _____	
Place of Employment _____	
State _____	Zip _____

For more information
return to:
ACSM
5410 Grosvenor Lane
Bethesda, MD
20814

The more things change!

The more they stay the same. It is our responsibility to educate as well as maintain the public's knowledge of our profession, and to understand, that when a potential client questions our quotes, that they are truly curious about the costs. These problems are to be considered universal, I question the costs of a mechanic, of sanitation, of food. But we as a profession are somewhat aloof to this, and that prompts this scenario.

The year is 1951, October, and the players are an out-of-state client who is requesting a lode claim mining survey, and a young consulting engineering and surveying firm. The survey is for 235 acres, and in the rugged Badwater Drainage of Central Wyoming. The survey is an original, 1889 and accessible only by jeep. The crew stays on site to cut down on costs of traveling.

Upon receipt of an invoice for services rendered, in the amount of \$1203.00, the client corresponds with his lawyer in Wyoming. He feels that the charges are extreme, and provides data from an engineering and surveying firm in Indiana that states a price per acre that the client feels relevant. He feels that two-hundred and fifty dollars is sufficient, and quotes the 0.75 cent an acre for farmland and the \$1.50 to \$2.00 an acre for swamp land and undeveloped Indiana countryside as his basis of payment.

The lawyer returns the correspondence to the client with a request to pay in whole the invoice and offers the following professional opinion, submitted by Albert Zuill, former Natrona County Surveyor, confronting the irrelevance of the clients thinking;

Dear Mr. In accord with your suggestion, I submit some comment on the survey made in June of this year by Worthington & Lenhart, a Casper engineering firm, of a group of 12 lode mining claims in the Badwater drainage area in the foot-hills of the Big Horn Mts., in Natrona County. Having been located in Casper for the past 32 yrs. and in private engineering practice in the Central Wyoming area for much of that time, I feel qualified for such comment.

Having had surveys in past years in the southern part of the township in which these claims were stacked, I can emphasize the small percentage now existing of the monuments originally set for the section corners by the gov't contract surveyor who subdivided this township in 1898; and can emphasize the very rough nature of the terrain-steep rocky slopes cut up by deed narrow gorges, with timber and underbrush often occurring in the gorges to add their delays in a survey.

Staking and setting permanent monuments and location notices at the claim corners is the minor portion of such a survey; the major portion is the retracing the section lines to which the claims pattern must be tied. Finding these section corner stones and running true lines between them is a laborious and time-taking job, and in terrain such as this, this feature is accentuated. Frequently we find that many of the section corner rocks in a twp. are missing, due to the period of over 50 yrs.

since they were set (or were supposed to have been set) and the reestablishment of a lost or obliterated corner entails proportioning it in by measured distances between recognized or accepted corners to the north and south of the lost corner and to the east and west of it.

Erosion by wind and water takes its toll, especially on such steep slopes, and oftentimes carelessness or ignorance on the part of early settlers, and the yearly grazing by sheep and cattle, have misplaced or destroyed such rock corners.

Last year I had occasion as County Surveyor to determine definitely the section and subdivision thereof in which a rural cemetery, of 1 1/2 acres area, existed in the old-time ranching area, "Bates Hole" in mountain terrain southwest of Casper. In order to purchase the land and thus protect the public in its use, it was necessary to determine its location in the section and show on whose land it lay - State, Government or private deeded land.

Subdividing the section itself was a minor part of the survey; the major part was reestablishing the corners of the section, all of which were missing, and their legal reestablishment entailed running 23 miles of line. That twp. lay in terrain similar to that in Badwater but less rugged, and was more accessible in that a State Secondary Highway bisects the twp., but the field work alone consumed a good part of a month, and cost some fifteen hundred dollars.

Another instance of survey cost which might be informative in this connection is the staking location for the first or wildcat oil well test in the Meadow Creek area in Johnson County lying north of our county. The terrain was not mountainous but was cut up by deep narrow cut-bank draws and gullies in the drainage area of Salt Creek, a tributary of Powder River, terrain often locally termed the "Powder River roughs". In order to subdivide the section in which the well location was scheduled, it was necessary to retrace section lines in a major part of the south half of the twp. and the bill was some twelve hundred dollars. This was the first order from that oil company, and after paying that bill they came back for more and all their well locations in Central Wyoming have been handled by this same engineering firm.

Elmer Lenhart, a licensed surveyor, who with two experienced survey helpers made that survey in Badwater, has had years of experience in just that type of survey; having had considerable experience with his field and office work, I can state emphatically that the survey and mapping of that group of claims could not have been done by any qualified surveyor for a less figure than that of Worthington & Lenhart's bill - \$1203.00.

The men made their headquarters at the nearest practicable point to the survey, and put in long hours in the field to keep traveling time, etc. at a minimum, yet their expense for board and lodging was several hundred dollars. Lenhart was equipit with a solar

Continued on Page 9

FEE SURVEY RESULTS

—JANUARY 1990 —

• Our charges are as follows:	Range	Average
L.S. - Field	\$30-45/hr	\$37.50
L.S. - Office	\$28-45/hr	\$37.87
2 Man Crew	\$45-75/hr	\$58.44
3 Man Crew	\$56-95/hr	\$73.56
4 Man Crew	\$75-120/hr	\$93.80
Drafter	\$10-35/hr	\$24.62
Technician (civil)	\$10-35/hr	\$25.20
Clerical	\$10-25/hr	\$17.45
L.S.I.T.	\$15-40/hr	\$27.70
P.E.	\$25-60/hr	\$44.50
E.I.T.	\$16-45/hr	\$31.90
P.E. & L.S.	\$40-55/hr	\$42.20
Construction Inspector	\$10-40/hr	\$27.80
Principal of Firm (L.S.)	\$40-55/hr	\$43.25
Principal of Firm (P.E.)	\$40-65/hr	\$49.27

• Our average charge for a lending institutions survey (NOT ALTA) for a residential property is \$100-300 (\$176.56)

• Our average charge for a Standard ALTA survey of a residential property is \$150-\$2,500 (\$713.64)

• Our average charge for a Standard ALTA survey of a 3 acre commercial property (buildings and improvements) is \$565-6,000 (\$2,351.36)

• Our average fee for a well location survey on; Private Land is \$400-2,000 (\$900); Federal Land is \$400-2,500 (\$1,091.67).

• Our average charge for writing a legal description for a deed is \$57.50 - 250 (\$136.61)

• Our charges for expert witness services are as follows:

Evaluation/preparation	\$34.65/hr (\$45.18)
Deposition	\$34-95/hr (\$55.58)
Court Apperance	\$34-125/hr (\$67.25)

• We charge for related equipment and expenses as noted below:

EDM	\$5-25/hr (\$11.73)
Computer	\$10-120/hr (\$28.50)
Vehicle	\$10-35/day (\$24.44)
Vehicle Miles	\$.30-.55/mile (\$0.40)
*Telephone	0 - Cost – Cost + 10%
*Meals	Cost – Cost + 10%
*Lodging	Cost – Cost + 15%
*Survey Materials	Cost – Cost + 25%
*Printing	Cost – Cost + 15%
*Subconsultants	Cost – Cost + 15%

* = Actual Cost or Cost plus a percentage

It is recognized that not all respondents charge their clients according to this blank form. And, charges for a particular service are effected by the type of project and the clients wishes established by contract. The intent of this survey is to summarize general charges rather than specifics of a firm or project. We welcome your comments about this survey. Please offer your suggestions. We may conduct a survey annually. If you wish to know a particular statistic, please let us know so that we may include it in the next survey.

MINIMUM SCHEDULE OF FEES FOR SURVEYING WORK RECOMMENDED BY THE PRACTICING ENGINEERS & SURVEYORS OF WYOMING

1. Services of a single surveyor either in field or office	\$5.00 per hr.
2. Services of a two man field party	\$8.00 per hr.
3. Services of a 3 man field party	\$10.50 per hr.
4. Services of a 4 man field party	\$13.00 per hr.
5. Clerical service	\$4.00 per hr.
6. Automobile expense (if not off roads upon which passenger cars can normally operate)	12¢ per mile
7. Miscellaneous expense shall include all other legitimate expense incurred in the performance of the work including telephone expense, board and lodging, stakes, materials, cost of special maps, field notes and plats and other similar items necessary for the execution of the work. It shall be charged for at cost.	

Time will begin from the time of leaving the point of origin to the time of returning.

Note: Date is estimated to be 1960±



MANUFACTURER CUSTOM
SURVEY STAKES, LATH, & BRASS CAPS
FLAGGING - PIN FLAGS - FLUORESCENT PAINT

ROBERT C. SHOOK

P.O. Box 90009
Casper, WY 82609
307-234-9856

P.O. Box 758
Newcastle, WY 82701
307-746-4113

PENTAX



Pentax Instruments
A division of
Pentax Corporation
35 Inverness Drive East
Englewood, CO 80112
Tel: (303) 799-8000 Ext. 351

Jerry B. Steelman
Central Territory Manager
Home: (214) 661-1425

Western Federation of Professional Surveyors Annual Report – January 1990

By John Steil

The following is a summary of what has transpired at the last several WFPS Board meetings.

1. 1989 Conference – The 1989 conference was held on June 12-17, 1989 at the beautiful Pointe Tapatio Cliffs Resort in Phoenix. The conference was hosted by the Arizona Professional Land Surveyors ASCM.

The conference generated \$24,664.41 in net profit. The profits were distributed 50% to WFPS (\$12,332.20) and 50% to the states (\$12,332.21) based on attendance as follows:

Alaska	\$ 198.51
Arizona	7,319.92
California	1,811.37
Colorado	397.01
New Mexico	322.57
Nevada	297.76
Oregon	694.77
Utah	694.77
Washington	297.76
Wyoming	297.76

The winners of the centennial acre square feet donated as door prizes (3) by PLSW are as follows:

Harry (Bud) Campbell Greg Tuttle
Palmer, Alaska Phoenix, Arizona

The third winner did not return the application.

The 1991 conference committee will meet in Las Vegas in early March to hopefully finalize the negotiations with The Tropicanna. The conference is projected to be in March of 1991 in conjunction with California's and Nevada's annual meeting.

2. Legislation – Brian Weigert, WFPS delegate from Oregon is the Chairman and also is a member of the ACSM Joint Government Affairs Committee

(JGAC). He is the only representative from the West, therefor represents NSPS & WFPS and split the cost for sending Brian to the JGAC meetings.

Legislation on the National level affecting the surveying profession and discussed by JGAC committee is the Brooks Bill clarification, limitation of GPS signal, legislation to study Park System Boundaries, accurate mapping of pipelines, global warming, highway legislation, Land Information Study, Canadian Free Trade Agreement, Dept. of Interior spending measure, legislation repealing Section 89, Fiscal year 1990 Landstat appropriations, and Small Business Competitiveness Demonstration Program.

3. 1990 Budget – The 1990 Budget is outlined as follows:

Chairman	\$ 3,000.00
Chairman-Elect	200.00
Secretary	1,500.00
Treasurer	2,000.00
Executive Secretary	1,000.00
Past Chairman	200.00
Delegates	2,400.00
Conference	2,600.00
Education Workshops Comm.	5,000.00
Gov't Affairs Comm.	1,500.00
Special	200.00
By-laws Comm.	250.00
Policy Comm.	200.00
Total 1990 Budget	\$20,050.00

The financial status of WFPS as of January 1, 1990 is \$51,397.72 in the bank of which \$47,000.00 is in CDs.

4. Officers – The officers for 1990 are as follows:
Chairman Charles Pearson, Oregon
Chairman Elect Sam Best, Alaska
Secretary John Abenroth, Washington
Treasurer Jerry Tippin, California
Past Chairman Chic Chichester, Colorado

Continued on page 7

Lines and Points is published by the South Central Chapter of the Professional Land Surveyors of Wyoming. *Lines and Points* is not copyrighted and permission is hereby granted to reprint articles with appropriate credit. The Professional Land Surveyors of Wyoming assumes no responsibility for statements made or opinions expressed in this publication.

PLSW (Professional Land Surveyors of Wyoming) is a state-wide organization of Registered Land Surveyors licensed to practice in the Equality State of Wyoming. PLSW is dedicated to improving the technical, legal, and business aspects of surveying in the State of Wyoming. PLSW is affiliated with the American Congress on Surveying and Mapping and the Western Federation of Professional Land Surveyors.



Members of the Professional Land Surveyors of Wyoming gathered recently for the signing of the Proclamation for National Surveyors Week (l-r); Bill Braman, SE Chapter Representative; Beckey Braman, Vice President PLSW; Ray Connin, SE Chapter Vice President; (seated) Wyoming Governor Mike Sullivan; Jack Studley, SE Chapter President; John Steil, Past President PLSW; Jeff Jones, SE Chapter Secretary/Treasurer.

Western Federation of Professional Surveyors Annual Report...continued

5. Committee Appointments and Ratification
Legislation Weigert, Oregon
Education Best, Alaska
Conference Tippin, California
Nominations Steil, Wyoming
By-laws Bender, California

6. Other – The following is a list of other accomplishments or items of discussion for the past year.

a. Letter to all State Surveying Societies urging them to send letter to their respective State Board of Registrations to support the name change of NCEE to NCEES.

b. Review of and proposed changes to Articles of Incorporation & By-Laws.

c. Approved Quest program, which is a discount lodging program. The program is available to any WFPS State Society.

d. Canadian Free Trade Agreement – WFPS wrote letter to NSPS to urge them to become actively and personally involved in all Free Trade negotiations that relate to the practice of professional land surveying. Land Surveying was not listed as a Profession. The Quest Federal Government can pass this agreement, but the fact remains that the states control who can survey within a particular state.

e. WFPS sent letter to NICET on behalf of Utah Council of Land Surveyors proposing two alternate courses of action: (1) review and amend the NICET certification program to fully include land surveyors in the supervision and work experience verification process, amend the definition of "engineering technician" to exclude surveying, include a definition of "surveying technician" to encompass the duties of the surveyor, and review the program for possible conflicts with licensing statutes of other professions such as architects and contractors or (2) eliminate the subfield of highway survey from the field transportation engineering technology and review and eliminate any other work element which conflicts with other professions.

f. Update compilation of State Registration Laws.

g. NCEE Task Analysis for Professional Land Surveying.

h. Phoenix Focus Group – An evening at the WFPS Conference in Phoenix. WFPS met with officers of ACSM to discuss everything from fee structures, separating our educational programs out of the engineering departments, registration laws, education, communication and image.

i. WFPS Chairman attended six state society annual meetings.

In summary WFPS meets 3 times a year at various cities within the WFPS states. We normally have a 30+ item agenda and occupy a full day on the various items. The big thing that WFPS delegates notice is that surveyors are pretty much the same no matter where you go.



Aerial Mapping Professionals

- Aerial Photography
- Orthophotos • GIS
- Custom Color Printing
- Digital Topographic Mapping
- CADD/Edit
- AUTOCAD™
- INTERGRAPH™
- ARC/INFO™

MAIN OFFICE

1635 Deadwood Avenue • P.O. Box 3134
Rapid City, SD 57709-3134 • Phone (605) 343-0280

How To Copyright Your Work

The moment you create a work that is copyrightable, that work is automatically copyrighted without any further action by you. However, if you "publish" the work, then to maintain your copyright you must include three items on all copies of your work with which you are reasonable aware. The three items are:

1. The copyright symbol (the letter "c" in a circle), or the word "Copyright," or the abbreviation "Copr."
2. The year of first publication of the work.
3. The name of the owner of copyright in the work.

Example: Copyright, 1988, John Doe.

Civil engineers and land surveyors who wish to register their copyright with the Federal Copyright office should use Form VA. To obtain copies of Form VA as well as other information about copyrights distributed by the Federal Copyright Office, you should contact the office at:

Copyright Office
Library of Congress
Washington, D.C. 20059
(202) 287-9100

Documents which may interest you include Circular R1 ("Copyright Basic") and Circular R1c ("Copyright Registration Procedures").

(Reprinted from July 1988 Treasurer State Surveyor)



SCHERBEL ON SURVEYING A compilation of parts of the WYOMING STATUTES

and other items of interest to
PROFESSIONAL LAND SURVEYORS

order from
SURVEYOR SHERBEL, LTD.

Box 4296

Big Piney – Marbelton, Wyoming 83113

\$30.00 postpaid