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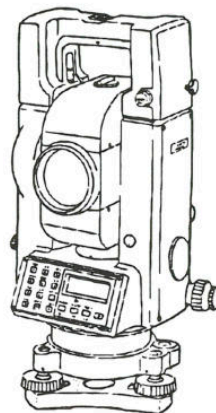


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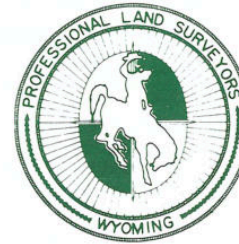
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PROFESSIONAL LAND SURVEYORS OF WYOMING

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MEMBER — WESTERN FEDERATION OF PROFESSIONAL SURVEYORS

ROBERT L. ST. CLAIRE, VICE-PRESIDENT

BECKY J. BRAMAN, PRESIDENT

RICK HUDSON, SEC.-TREAS.

VOLUME 4 NO. 2

JULY 1992



Proposed
"Wyoming Coordinate System"
Page 6



Who can put 5 miles of mountain road in the palm of your hand?

Lietz can. With our 3 new SET-C Intelligent Total Stations and the amazing on-board Data Memory Cards.

Slip a Memory Card into one of our SET-C Total Stations and you can see the future. A revolutionary integration of measuring and data-storage power. All in one rugged, self-contained, affordable unit.

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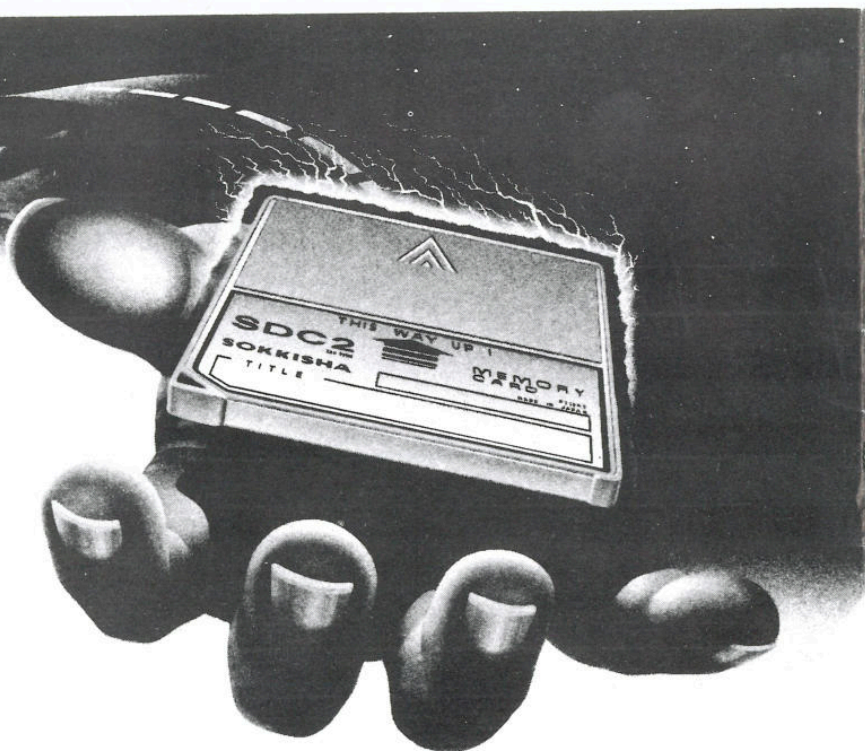
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MEMBERSHIP APPLICATION

DATE _____

NAME _____ WY REG. NO. _____

(Please indicate preferred mailing address)

HOME ADDRESS: _____

STREET OR BOX _____

TOWN/CITY _____ STATE _____ ZIP _____

TELEPHONE: _____

BUSINESS ADDRESS: _____

STREET OR BOX _____

TOWN/CITY _____ STATE _____ ZIP _____

EMPLOYER _____

YOUR TITLE _____

States other than Wyoming in which you are registered: _____

Additional information or comments (optional): _____

CLASS OF MEMBERSHIP APPLIED FOR: (check one only and please submit dues with application, prorated for the remainder of the calendar year)

_____ MEMBER, ANNUAL DUES \$75 (Persons duly registered, PLS or PE&LS, in Wyoming.)

AFFILIATE MEMBER

_____ Associate Member, annual dues \$50. (Persons employed under the direction of a PLS and working toward PLS registration in Wyoming.)

_____ Special Member, annual dues \$50. (Not meeting above qualifications but with a particular interest in, or association with, the profession of land surveying.)

_____ Special Member, student, annual dues \$15. (Pursuing a post secondary academic course of study, and currently enrolled.)

_____ Sustaining Member, annual dues \$100. (Persons, institutions or corporations desiring to assist PLSW 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 SAID ORGANIZATIONS IN THEIR ENDEAVORS.

(APPLICANT'S SIGNATURE)

SPONSOR'S SIGNATURE
(For Affiliate Member applicants only.)

NOTE: All portions of the state have chapters. Chapter dues or assessments may vary in amount. Applications are considered by the Board of Directors at quarterly meetings. Send completed application to PLSW, c/o R.L. Hudson, Sec./Treas., P.O. Box 784, Thermopolis, Wyoming 82443.



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A Good Party Chief

1. **Make every effort** to be at work every day and arrive at work soon enough to get your materials and people ready to leave the office for field work by work time.
2. **Remember that you** are a supervisor and director of your group. Your value is measured by the success you achieve in motivating, training, teaching your assistants, and developing smooth, efficient, and accurate team effort. Accuracy and completeness of any task are essential.
3. **See that you have** the materials needed to do the job and use the materials efficiently.
4. **Utilize the talents** of your workers so that you get the most productive work accomplished.
5. **Be able to plan** your work ahead so that you know what the next move will be. Don't wait until one part of the job is done before deciding what to do next - think ahead.
6. **Teach each person how** to do the assigned job. Don't pretend that he already knows.
7. **Teach each person in your crew** to take pride in their work, and to wear the proper clothing and maintain a neat appearance.
8. **Keep a good set of notes.** They should be easily read and not scrounged together. There should always be a neat sketch on the right-hand page of the field book showing your work.
9. **Be always a little suspicious** of using the controls set by others. Always check them out. Always have a way to check your work to make sure it is correct.
10. **Try to put yourself** in the person's place that is going to use your notes. Can your notes be plotted? Is the sketch properly oriented?? Have you gotten enough information such as roads (names of roads), houses, poles, trees, etc.? If you are not sure about picking up an item, go ahead and get it anyway. It is better to have too much information than not enough.
11. **Always remember that the company** you work for must make a profit to survive. For you to survive, the company has to make a profit. The type, kind, and amount of services you perform determined your status with the company.
12. **Do everything you can** to improve yourself. Take the attitude that someone is just about to pass you on the road-to-success.
13. **Do not take for granted** that others have gotten permission for you to survey on private property. In each case, assume that it has not been done, contact the owner, state your business, and ask for permission to survey.
14. **After you have gotten permission** to survey, be extremely careful about cutting line in the owner's backyard. It will be more noticeable in the summer than in the winter.
15. **Do not be afraid to tackle a job** that is tough or requires more experience than you have. If you are not sure how to do the job or what is wanted, ask questions. Remember that others have been in the same position you are in, and they got the job done by getting a few pointers along the way.
16. **If you will, take the attitude** of always giving more than 100 percent on any job. There is a great demand for dependable, aggressive, and hard workers. This type of person will always have a job, and will have very little

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Position open until filled; however, to be assured of consideration, a resume, all transcripts, names addresses/phone numbers of three professional references and a letter of application indicating exactly how you meet the required qualifications must be received by mail (fax not accepted) by Personnel Services, FVCC, 777 Grandview Drive, Kalispell, MT 59901 by 4 p.m. on June 19, 1992. (406) 756-3024 An AA/EEO Employer.

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Editorial Potpourri*

- Chapter Minutes - Send us a summary of your organizations activities by 15 SEP 1992. Summaries need not be typed.
- Join PLSW Now - *Lines and Points* mailing list will be revised for the next issue. Only PLSW members, advertisers and other state newsletters will receive this newsletter. Join NOW. An application is included in this issue. If you are a member, recruit a new member. Part of PLSW membership dues make this publication possible.
- Support Your Advertisers - The advertisers in this issue help make this publication possible. Support them.
- PLSW Board Meetings - The meetings of the PLSW Board of directors scheduled for 1992 are as follows:

	September December	Jackson Thermopolis
• NEW MEMBERS OF PLSW		
John R. Batson	Jackson	Member
Paul A. Reid	Cheyenne	Member (WHO?)
Lynn A. Forbes	Cheyenne	Associate
Lance S. Matson	Green River	Associate
Wyoming Title Service	Riverton	Special Member

Welcome and congratulations to our new members

- FAX Receiving - *Lines and Points* can now receive your important materials by calling 307-235-5604.
- SURVEYOR SCHERBEL PICTURED - One of our distinguished members, Paul Scherbel was recognized for his efforts with remonumenting the southwest corner of the state. His picture is on the cover of the *Gem State Surveyor* - Spring, 1992 and an article by Mike Dress, PLS is offered on page 10. If you wish to participate in this worth while effort, see Paul's letter in this issue. Keep up the good work Paul.



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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.

Editorial Staff: John Hibsman, Steve Strang, Don Davis.

Lines and Points subscription \$50/year

Advertising Information

Camera ready advertisements with payment should be mailed to *Lines & Points*, 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 summer issue - Sept. 15, 1992



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PLSW Board of Directors' Meeting Summary

The spring meeting of the Board of Directors was held in Cheyenne on Saturday, May 16, 1992.

Board members, members and guests assembled at noon for a catered luncheon arranged by Pete Hutchison, Director of the hosting Southeast Chapter; and at which time heard a presentation by Don Lamb regarding the surveying program at Laramie County Community College.

The meeting was called to order by President Becky Braman at 12:33 P.M. All members of the board were present with the exception of the past president, vice president and northwest director.

Minutes of the two board meetings and the annual meeting held in Sheridan on February 6, 1992, which had been previously mailed to all board members, were approved as submitted.

The treasurer's report was presented by Rick Hudson and included a listing of all expenses to date as well as a balance sheet. This report was accepted by formal motion and vote.

The NSPS governor 5 report was given by Becky Braman and consisted of a written report, with attachments, as well as an oral report of the meetings held in Albuquerque last February. She mentioned that she participated in a "think tank" session in conjunction with the meetings, offered proposed Articles of Affiliation for review by each chapter and reported that railroad abandonment is causing problems for surveyors across the country due, in part, to the destruction of benchmarks and R/W monumentation.

John Steil presented a written and oral report on the past and current activities of "West Fed" and mentioned that the 1993 conference will be held at South Lake Tahoe, April 19 - 23, 1993.

Official results of the special election regarding the proposed By-Laws amendment indicated 37 for and 29 against, thus the amendment failed to receive a two-thirds majority vote.

Committee reports were presented by the following committees: Membership, Rick Hudson; Ethics, Herb Stoughton; Education, Herb Stoughton and Ray Connin; Legislative, John Steil; Public Relations, Andy Shauers; Corner Recordation, Hudson for Harvey Copeland; GPS, Herb Stoughton, Manual of Practice, Herb; and "Lines & Points", Don Davis. Teller's Committee report is mentioned above.

In regard to education; Herb presented a proposed listing of courses that could satisfy the "30-hour" requirement for new applicants for registration, Rod Skaggs mentioned the existing route surveying course available via teleconferencing and the proposed elementary surveying course to be available next spring from the University of Wyoming.

Legislative matters included a formal action to continue PLSW support of a record of survey act during the 1993 legislative session.

Herb Stoughton stated that the NGS will be making observations for the GPS "Supernet" in Wyoming this

fall and that anyone desiring information regarding additional stations should contact him.

The board voted to endorse the version of the proposed Certified Land Corner Recordation form as printed in the latest edition of "Lines & Points" and to send this on to the board of registration.

As a matter of old business, Andy Shauers presented a report regarding the use of the PLSW logo which resulted in a formal vote and approval of same. In the future, member use of the name, abbreviation or emblem for promotional items without prior written approval by the PLSW Board of Directors is prohibited (and) such approvals shall require formal Board action.

Additional old business included the presentation of the quotation for PLSW flags and banners with each director being instructed to solicit a final decision from their chapter; the order to be placed after the September board meeting.

The Membership Committee was charged with drafting a written procedure to be followed for the nomination of honorary members.

A proposal by Paul Scherbel, titled "Save Our Surveyors", to establish an honorarium in recognition of a chosen Certified Land Corner Recordation each year, was referred to a committee chaired by Pete Hutchison who will report back to the board in September.

A matter of new business of immediate concern to all members present concerned the proposed changes in the rules and regulations of the State Board of Registration for Professional Engineers and Professional Land Surveyors.

President Braman stated that she has sent a letter, on behalf of PLSW, asking for a public hearing on the matter and stating that we are concerned as to the effect some of these changes could have upon the practice of our profession.

A general discussion followed, during which numerous specific items were questioned, and it became obvious that all members present were more than just a little concerned about this matter.

PLSW will monitor the situation and take appropriate action of behalf of its members.

Announcements included a project, by the Central Chapter, to establish a GPS station on top of Gannett Peak during the first week in August. Contact Rich Greenwood or Chris Hamilton for additional information.

John Lee mentioned the new EDM calibration baseline in Cheyenne; that it will be measured by NGS shortly, and the possibility for the establishment of an additional baseline within Wyoming. It was agreed that the Central Chapter area is in need of such a baseline since the chapter was only recently (last year) formed.

Mention was also made that Metro State, in Denver, may be phasing out portions of the surveying program that it currently offers.

The meeting was adjourned at 4:59 P.M.

Dated this 26th day of May, 1992.

TO: Users of NGS Vertical Control
FROM: Vertical Network Branch National Geodetic Survey
SUBJECT: NAVD 88 Heights

NAVD 88 provides a modern, improved vertical datum for the United States, Canada, and Mexico. The NAVD 88 height listing is the result of a mathematical least squares general adjustment of the vertical control portion of the National Geodetic Reference System and includes 80,000 km of new U.S. leveling observations undertaken specifically for this project.

During 1991-92, NGS will publish information on the remaining bench marks in its integrated data base. These bench marks were removed from the general adjustment because they involve older data that are inconsistent with the latest observations, are in vertical crustal motion regions, or for other reasons. Such bench marks are designated "posted," because data for them will be published **after** the initial NAVD 88 publication date (post NAVD 88).

Posted bench marks comprise about 20 percent of the total number of bench marks in the vertical network. These posted marks are distributed throughout the United States, although they are more concentrated in some areas than in others. Bench marks posted in areas of significant crustal movement, such as southern California, the vicinity of Phoenix, Arizona, southern Louisiana, and the vicinity of Houston, Texas, will be published in the form of special reports,

It is important to note that NAVD 80 will not remove inconsistencies between adjusted heights that are due to movement of bench marks. In areas of significant crustal movement, users must still use adjusted heights having the same adjustment date. It should also be noted that in these areas of the country, the latest leveling data may not have been included in NAVD 88.

The data may have been inconsistent with the older, but more complete leveling network and/or they may not have been processed in time for inclusion into NAVD 88. These data will be incorporated into NAVD 88 as soon as possible.

In addition, you must take extreme care to ensure that all height values of bench marks used within a project are referenced to only one vertical datum, preferably NAVD 88. Other agencies' bench marks, e.g., the U.S. Army Corps of Engineers (COE), State Departments of Transportation, and U.S. Geological Survey (USGS), were incorporated into NAVD 88 by NGS if these agencies provided their data to NGS in a form suitable for processing. NAVD 88 contains several thousand of these bench marks observed by other organizations. NGS appreciates their efforts in this regard. However, leveling data associated with approximately 500,000 third-order bench marks established by USGS have not yet been placed in computer-readable form and do not have NAVD 88 heights at this time. USGS has completed a pilot project to evaluate the transfer of third-order leveling data to NGS. As resources allow, the two agencies will incorporate these data into NAVD 88 during the next 10 years. In addition, COE has established hun-

dreds of thousands of bench marks across the nation which do not have NAVD 88 heights.

Even though data that did not fit the latest observations were removed from the NAVD 88 general adjustment, some NAVD 88 height differences between relatively closely spaced bench marks that were included in the general adjustment may not conform to Federal Geodetic Control Committee (FGCC) tolerances due to network configuration and/or crustal movement. NAVD 88 users must still adhere to all FGCC vertical control specifications and procedures, e.g., a two-mark leveling tie is still required.

If you encounter a large discrepancy between newly observed leveling differences and NAVD 88 published height differences or want information on the status of "posted" bench marks or crustal movement studies, please contact NGS' Vertical Network Branch (VNB), telephone: 301-443-8567 or FAX: 301-881-0117. VNB will then investigate the network in the area using NGS' existing data and your newly observed leveling differences to determine if there is a problem in the network that could not be detected during the analysis phase of the NAVD 88 general adjustment.

For data published by NGS contact Herb Stoughton in Cheyenne.

SUBJECT: State Legislation Defining Vertical Datum

The National Geodetic Survey (NGS) has been asked to develop a model state law that references the new vertical datum, the North American Vertical Datum of 1988 (NAVD 88), to be used within a state for surveying and mapping projects. This model would assist states that wish to enact legislation defining the vertical datum. The concept of a model law for NAVD 88 is similar to what NGS provided to states as a model state law for the North American Datum of 1983 (NAD 83) State Plane Coordinate System.

We have no information on state vertical datum legislation from which to begin developing a new model law. Therefore, I am asking you to provide any current (or proposed) state legislation for your state, or any other state you are aware, that references the old vertical datum, the National Geodetic Vertical Datum of 1929 (NGVD 29).

If you know of any legislation that references NGVD 29 or other vertical datums, please send a copy to:

Edward J. McKay
Vertical Network Branch
N/CG13, Rockwall Bldg., Room 313
National Geodetic Survey, NOB
Rockville, Maryland 20852
Tel: 301-443-8567 Fax: 301-881-0117

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New Member NOW!**

WESFED Update

CONFERENCE 1993 - The 1993 conference will be held at Caesar's Lake Tahoe, April 19-23. Chuck Pearson and Brian Weigart are Co-Chairmen. Other committee members are Barry Hickerson, Jerry Tippin and Susan Jensen. Plans are underway for both the program and social events and a confirmed room rate for participants will be \$83. Chuck Pearson is requesting 3 sets of mailing labels from the states. These labels are to include all state registrants, not just association members. Since no state is giving up their annual conference in conjunction with the conference and the bank account of WFPS is slowly depleting a motion was approved that all profits for the conference go to the WFPS treasury.

CONFERENCE 1995 - There was discussion on possible sites, specifically Hawaii and Denver. There were concerns expressed over the financial ramifications of the Hawaii site to both exhibitors and attendees. The delegates were asked to gather input from their states. The 1995 Conference Committee be appointed to look at conference sites, one being Hawaii, for the economic aspects of each and report back to the Board a recommendation for selection.

CONTINUING EDUCATION - Many land surveyors practice in two or more states. During the course of investigating continuing education, concern is being expressed that for multi-state registrants, meeting requirements among several states could pose a problem in the absence of some uniform criteria. WFPS has assigned a committee to develop a uniform Continuing Education Standard for the Western Region. The intent here is not to necessarily mandate exact language among all states. Rather, the objective is to develop a uniform framework such that most courses/activities could be accepted in meeting requirements in a neighboring state or states. Obviously there will be certain material that applies only to individual states (e.g., statutory provisions) A questionnaire was sent out to all WFPS states, as of the May 1 meeting about 50 of the states have responded.

LEGISLATIVE REPORT - Anyone with examples of problems which occurred due to failure of railroads to monument abandoned R/W's contact myself, Brian Weigart or Nancy Parkes as soon as possible with details.

L.S. REGISTRATION REQUIREMENTS HANDBOOK - A limited number of copies were made available to the Board for their review. The price of the handbook is \$25 including shipping and handling. It was reported that there was considerable interest shown at the Board of Governors for this publication. Anyone interested in an application form please let me know.

SCHOLARSHIP - A single \$500 scholarship for the academic year 1992/1993 to a student meeting the criteria established by the scholarship committee be awarded. The committee requests the names and addresses of the contact people at the WFPS are schools in order to determine if the schools qualify and to publicize the scholarship.

include John Abenroth, Rita Lumos and David Sherrill of WFPS states. Other appointments will be made by NSPS President Richard Lomax.

N.C.E.E.S. - NCEES has a Standard Committee and they have published proposed Land Surveyor Standards. They have also recently appointed a Continuing Education Committee which is working on national standards for Continuing Education for use by the states. Since input must come through the POLC or a Board member, the NSPS Board has no avenue to address this issue unless they become members. It was reported that NSPS, Inc. is working on an application to the POLC and should be accepted some time in March. The Land Survey Committee is looking into Photogrammetry, LIS/GIS and other survey disciplines to determine if they should be included in the national exam. This is based on a national task analysis and responses from the states on their state portion of the analysis. It was suggested that the states should try to determine how their states compare with the national analysis. George Walters of New Mexico is the new Western Zone Chairman.

The next meeting to be on Saturday, June 27 in Reno, Nevada.

PLSW Key Rings are for sale. Send \$5 to:
P.O. Box 904 • Casper, WY 82602

A RIDDLE: WHAT AM I?

I am the basis of all wealth, the heritage of the wise, the thrifty and prudent.

I am the poor man's joy and comfort, the rich man's prize, the right hand of capital, the silent partner of many thousands of successful men.

I am the solace of the widow, the comfort of old age, the cornerstone of security against misfortune and want. I am handed down to children, through generations, as a thing of greatest worth.

I am the choicest fruit of toil. Credit respects me. Yet I am humble. I stand before every man, bidding him know me for what I am and possess me.

I grow and increase in value through countless days. Though I seem dormant, my worth increases, never failing, never ceasing, time is my aid and population heaps up my gain. Fire and the elements I defy, for they cannot destroy me.

My possessors learn to believe in me, invariable they become envied. While all things wither and decay, I survive. The centuries find me younger, increasing with strength.

The thriftless speak ill of me. The charlatans of finance attack me. I am trustworthy. I am sound. Unfailingly I triumph and detractors are disproved.

Minerals and oils come from me. I am producer of food, the basis for ships and factories, the foundation of banks.

Yet I am so common that thousands, unthinking and unknowingly, pass by me.

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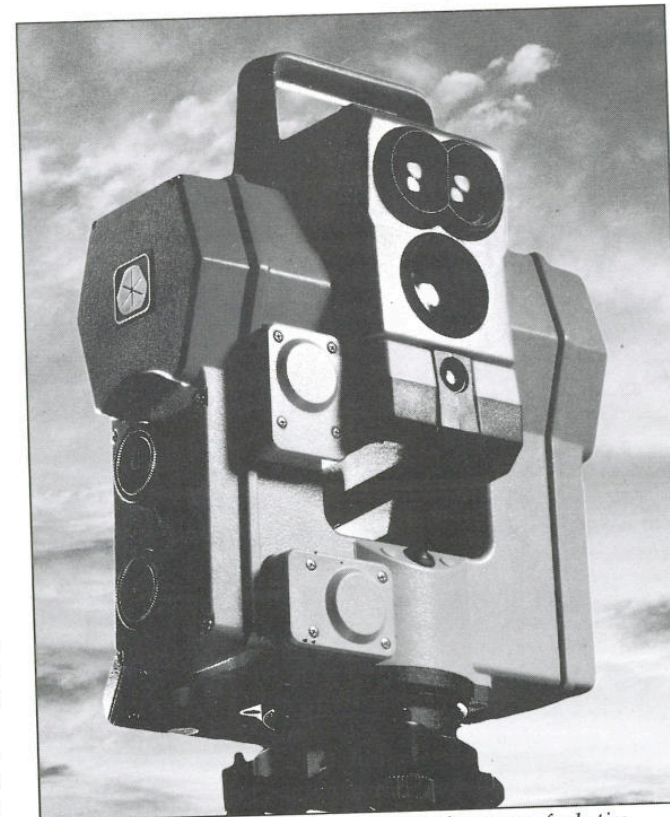
Whether you want to lease or pay cash, Geodimeter can put you in the driver's seat for a lot less than you thought.

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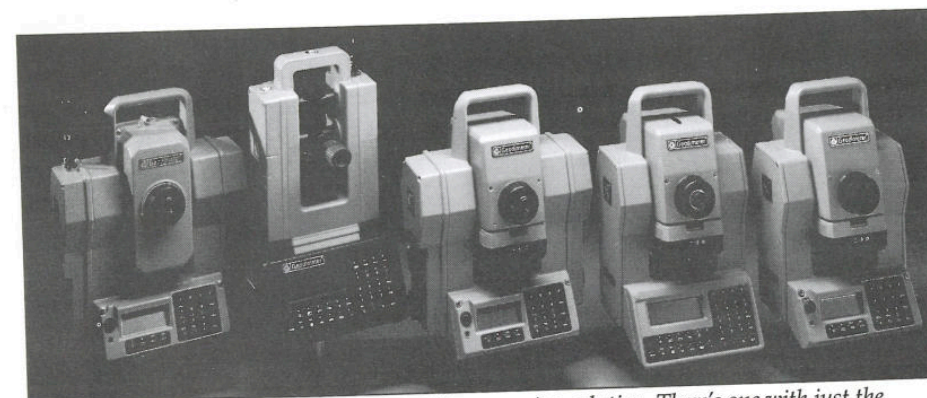
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Wyoming Horizontal & Vertial Control Network Proposed Law

An Act to describe, define, and officially adopt a system of coordinates for designating the position of points on the surface of the earth within the State of Wyoming.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WYOMING

Section 1. The system of plane coordinates which has been established by the office of National Geodetic Survey or its successors for defining and stating the positions or locations of points on the surface of the earth within the State of Wyoming is hereafter to be known and designated as the "Wyoming Coordinate System."

For the purpose of the use of this system the State is divided into an East Zone, an East Central Zone, a West Central Zone and a West Zone.

Section 2. As established for use in the East Zone, the Wyoming Coordinate System shall be named, and in any land description in which it is used it shall be designated, the "Wyoming Coordinate System, East Zone."

As established for use in the East Central Zone, the Wyoming Coordinate System shall be named, and in any land description in which it is used it shall be designated, the "Wyoming Coordinate System, East Central Zone."

As established for use in the West Central Zone, the Wyoming Coordinate System shall be named, and in any land description in which it is used it shall be designated, the "Wyoming Coordinate System, West Central Zone."

As established for use in the West Zone, the Wyoming Coordinate System shall be named, and in any land description in which it is used it shall be designated, the "Wyoming Coordinate System, West Zone."

Section 3. The plane coordinates of a point on the earth's surface, to be used in expressing the position or location of such point in the appropriate zone of this system, shall consist of two distances, expressed in **meters** to the nearest millimeter. One of these distances, to be known as the "x-coordinate," shall give the position in an east-and-west direction; the other, to be known as the "y-coordinate," shall give the position in a north-and-south direction. These coordinates shall be made to depend upon and conform to the coordinates, on the Wyoming Coordinate System of the National Geodetic Survey or its successors within the State of Wyoming, as those coordinates have been determined by the said Survey.

Section 4. When any tract of land to be defined by a single description extends from one into the other of the above coordinate zones, the positions of all the points on its boundaries may be referred to either of the two zones, the zone which is used being specifically named in the description.

Section 5. (a) For purposes of more precisely defining the Wyoming Coordinate System the following definition by the National Geodetic Survey or its successors is adopted:

The Wyoming Coordinate System, East Zone, is a transverse mercator projection of the North American Datum of 1983, having a central meridian at 105°10' West of Greenwich. The origin of coordinates is at the intersection of the parallel at 40°30' North Latitude and the meridian at 105°10' West of Greenwich. This origin is given the coordinates: x=200,000 meters and y=0 meters.

The Wyoming Coordinate System, East Central Zone, is a transverse mercator projection of the North American Datum of 1983, having a central meridian at 107°20' West of Greenwich. The origin of coordinates is at the intersection of the parallel at 40°30' North Latitude and the meridian at 107°20' West of Greenwich. This origin is given the coordinates: x=400,000 meters and y=0 meters.

The Wyoming Coordinate System, West Central Zone, is a transverse mercator projection of the North American Datum of 1983, having a central meridian at 108°45' West of Greenwich. The origin of coordinates is at the intersection of the parallel at 40°30' North Latitude and meridian at 108°45' West of Greenwich. This origin is given the coordinates: x=600,000 meters and y=0 meters.

The Wyoming Coordinate System, West Zone, is a transverse mercator projection of the North American Datum of 1983, having a central meridian at 110°05' West of Greenwich. The origin of coordinates is at the intersection of the parallel at 40°30' North Latitude and meridian at 110°05' West of Greenwich. This origin is given the coordinates: x=800,000 meters and y=0 meters.

(b) The position of the Wyoming Coordinate System shall be as marked on the ground by horizontal control stations established in conformity with standards adopted by the Federal Geodetic Control Committee or its successors for first and second order work, whose geodetic positions have been rigidly adjusted on the North American Datum of 1983 and whose coordinates have been computed on the system herein defined. Any such station may be used for establishing a connection with the Wyoming Coordinate System.

Section 6. No coordinates based on the Wyoming Coordinate system, purporting to define the position of a point on a land boundary, shall be presented to be recorded in any public land records or deed records unless such point is within two miles of a triangulation or traverse station established in conformity with the standards prescribed in Section 5 of this act and at least two well defined visible marks with their accompanying azimuths or coordinates, which may be other stations, are included with the recording.

Section 7. The use of the term "Wyoming Coordinate System" on any map, report of survey, or other document, shall be limited to coordinates based on the Wyoming Coordinate System as defined by this Act.

Section 8. Wherever coordinates based on the Wyoming Coordinate System are used to describe any

Continued on page 7

WYO-IDA-UTAH Corner Monumentation

FROM: Paul N. Scherbel, Chairman pro tem.
Remonumentation of State Corner common to Idaho, Utah and Wyoming
Rehabilitation of initial point survey of Idaho-Utah boundary

SUBJECT: Progress Report No. 2

1. The remonumentation and rehabilitation of the two foregoing monuments is fast becoming a reality.
2. The monument for the State Corner has been ordered.
3. Work days have been set for 28-29-30 July 1992 at which time the State Corner will be set in position in concrete and the Initial Point monument rebuilt. Lots of help will be needed for the concrete work to haul materials, mixing, and man-handle the monument. We will start in Cokeville from the
VALLEY HI MOTEL telephone 307-279-3251
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about 0730. Please come and help.
4. The dedication date is still scheduled for Friday, 28 August 1992 with the program beginning at 1000 at the Park in Cokeville. Tentative program is as follows:

Introductions

Welcome — Mayor John R. Bird

Talk — The survey of the Utah-Idaho boundary - Gerald A. Willett, Jr.

Talk — The survey of the west boundary of Wyoming - Dennis Bland

Signing of the official field notes and plat for the survey work accomplished - Francis Eickbush,

Jr., Surveyor-General of U.S.
Capital-for-a-Day - Governor Sullivan will be here for a Capital-for-a-Day program.
Luncheon in the Park.
Tours to the sites during the afternoon.

5. Publicity is going well with many newspapers using part of the material that first appeared in the Pinedale Roundup.

On 16 April 1992 we have a date in Cokeville with KSLTV for a feature. Come join us and maybe it will appear on the airwaves.

We still need your offers of help and assistance.

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BLM Update

This letter is to inform you of official cadastral surveys in Wyoming that have been accepted from April 1, 1992, through June 30, 1992, and are now available in the Survey Records Office, Wyoming State Office, Bureau of Land Management, 2515 Warren Avenue, Cheyenne, Wyoming 82001.

The accepted surveys are listed below by township, range, type of survey, meridian, and acceptance date.

Sixth Principal Meridian, Wyoming

<u>Township and Range</u>	<u>Type of Survey</u>	<u>Meridian</u>	<u>Accepted</u>
T.42N.,R.117W.	Metes & Bounds Survey	6 P.M.	06/08/1992
T.26N.,R.72W.	Dependent Resurvey	6 P.M.	06/08/1992
T.48N.,R.88W.	Dependent Resurvey	6 P.M.	06/08/1992
T.51N.,R.69W.	Dependent Resurvey	6 P.M.	06/08/1992
T.26N.,R.72W.	Supplemental Plat	6 P.M.	06/08/1992
T.45N.,R.95W.	Supplemental Plat	6 P.M.	06/08/1992
T.47N.,R.95W.	Supplemental Plat	6 P.M.	06/08/1992
T.51N.,R.95W.	Supplemental Plat	6 P.M.	06/08/1992
T.51N.,R.96W.	Supplemental Plat	6 P.M.	06/08/1992
T.51N.,R.97W.	Supplemental Plat	6 P.M.	06/08/1992

Wind River Meridian, Wyoming

<u>Township and Range</u>	<u>Type of Survey</u>	<u>Meridian</u>	<u>Accepted</u>
T.6N.,R.6E.	Supplemental Plat	WRM	03/03/1992

Sixth Principal Meridian, Wyoming

<u>Township and Range</u>	<u>Type of Survey</u>	<u>Meridian</u>	<u>Accepted</u>
T.26N.,R.93W.	Corrective Dep. Res.	6 P.M.	03/23/1992
T.51N.,R.70W.	Dependent Resurvey	6 P.M.	03/23/1992
T.47N.,R.77W.	Dependent Resurvey	6 P.M.	03/23/1992
T.47N.,R.77W.	Supplemental Plat	6 P.M.	03/23/1992

John P. Lee, Chief, Branch of Cadastral Survey

GLO Contract Surveys "Unearthed"

Herbert W. Stoughton, Ph.D.
Geodetic Engineer

Subject: GLO contract surveys.

1. Reference: *Annual Report of the Commissioner of the General Land Office for the Year 1887* (Washington: Government Printing Office, 1887), pp. various.
2. The following is a verbatim transcription from the GLO Commissioner pertaining to fraudulent surveys.
page 17: WYOMING

The surveyed area of this Territory, according to the notes and plats on file in this office, is something over 47,000,000 acres, leaving an unsurveyed area of about 15,500,000 acres. A very large proportion of the surveying returns are alleged to have been fraudulently rendered. Allegations have been received at this office of imperfect or fraudulent surveys to a very great extent, and an appropriation to cover the examination of such alleged imperfect or fraudulent surveys, and for necessary resurveys, is a matter of the highest public importance.

pages 17 and 18:

The field notes and plats returned by deputy surveyors afford no standard by which to judge of the character of the surveys. When deputy surveyors are disposed to make fraudulent returns their plats and field-notes can be readily made up on paper by experts, and only through a field inspection by a competent examiner can it be ascertained whether or not the survey was actually made upon the ground. Where the plats and field-notes returned by deputy surveyors show no imperfections or evidence of fraud it has been the practice of surveyors general to approve the surveys and prepare the necessary plats and transcripts for this office and the local land offices. In cases where surveys have, upon examination, been found fraudulent or so defective as to be unworthy of acceptance, the preparation of these plats and transcripts has been a great and useless expense to the government.

page 25:

The special agent of this office through whose investigations the details of the scheme were fully exposed, classifies the "system" under the following ten branches:

- (1) Fictitious applications for surveys.
- (2) False estimates of government liability.
- (3) Fictitious and irresponsible bondsmen.
- (4) False witnesses to signatures of deputy surveyors.
- (5) Fraudulent field-notes.
- (6) False preliminary and final oaths.
- (7) Approvals by surveyors generals.
- (8) Return of fraudulent accounts-.
- (9) Payment by United States Treasury drafts.
- (10) Fraudulent powers of attorney.

page 252:

The official records show that the operations of the "syndicate" were not confined to California, but extended into the states of Nevada, Oregon, and Colorado, and the Territories of Arizona, Idaho, New Mexico, Montana, Utah, Washington, and Wyoming. In the States and Territories of Nevada, Oregon, Idaho, and Washington, contiguous to the base of operations at



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(Perrin and Glover in charge, with Holcomb, Meyrick, Ragsdale, and other subordinates and quasi contractors following), were dispatched to do such work in the field as was deemed absolutely indispensable, as explained by Mr. Meyrick; while in the distant surveying districts of Colorado, Wyoming, New Mexico, etc. the services of resident and "reliable" parties were secured. Edward F. Stahle, of Wyoming, for example, whose original special deposit contract of \$6,000 was floated, continued, and extended to \$130,000; *vide* annual official report of 1885.

Owing to the limited appropriation for the examination of surveys in the field which was available for the fiscal year ended June 30, 1887, this office was unable to dispatch special agents to the surveying districts mentioned for the purpose of obtaining more specific and definite information as to the past operations of the "syndicate" therein.

Note: The above statement pertains to the infamous John A. Benson syndicate based in California.

page 512:

[To register and receiver, Cheyenne, Wyo., January 27, 1887.]

Mr. James A. George, special agent, verbally informs this office that the practice at your office in hearings is that after the government has introduced all of its evidence in the case application by defendant for a continuance is granted to a future day. Such practice is not justified by any rule of practice, departmental or office decision. The application for continuance must be made and deposed of before any evidence is introduced, and if not it will be deemed that the party has waived all right to the same. Any other practice must result in great injustice to the government.

Of course, when default is made by defendant affirmative evidence on the part of the government must be taken upon which to base a cancellation. Subject: GLO contract surveys.

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Proposed Law . . .Continued

tract of land which in the same document is also described by reference to any subdivision, line, or corner of the United States public land surveys, the description by coordinates shall be construed as supplemental to the basic description of such subdivision line, or corner contained in the official plats and field notes filed of record, and in the event of any conflict the description by reference to the subdivision, line, or corner of the United States public land surveys shall prevail over the description by coordinates.

Section 9. Nothing contained in the Act shall require any purchaser or mortgagee to rely on a description, any part of which depends exclusively upon Wyoming Coordinate System.

Section 10. If any provision of this Act shall be declared invalid, such invalidity shall not affect any other portion of this Act which can be given effect without the invalid provision, and to this end the provisions of this Act are declared to be severable.

Section 11. This Act shall take effect.....

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SE Chapter News

A long time resident and respected surveyor from Cheyenne, Malcolm Martin passed away in late February. A memorial service and internment was held for Mr. Martin on February 22, 1992. Mr Martin was voted an honorary member of The Professional Land Surveyors of Southeast Wyoming.

The Adopt-a-Highway cleanup was completed on Saturday, May 2, 1992 by the SE Chapter. As a community service project the SE Chapter has adopted a 2 mile stretch of State Highway 85. The SE Chapter has been doing this twice a year for the last 2 years. This time 10 members assisted in picking up 26 bags of trash in less than 2 hours.

The new Cheyenne area EDM calibration baseline was measured on May 27 and 29. The NGS 3-man field crew performed the work with the assistance from employees of Defense Mapping Agency (DMA). Upon departing Cheyenne the NGS crew planned on re-measuring the baselines in Rawlins and Rock Springs.

John P. Lee, Secretary/Treasurer
SE Chapter, PLSW

South Central Chapter News

The Chapter Meeting was held at the Natrona County Library in Casper and was called to order at 7:10 p.m. by President Bill Fehringer.

Director Jim Jones gave his report from the May 16, 1992 Director's Meeting in Cheyenne. Many topics were discussed.

John Hibsman and Steve Strang gave a report on the Newsletter. It is now a committee of the State P.L.S.W. Deadline for articles in the next edition is about the middle of June. The next edition is schedule to be completed and sent out in the first part of July.

In new business, Steve Strang made a motion, seconded by John Hibsman, to waive the local 1992 Chapter dues. The balance of the Chapter treasury, lack of Chapter expenses and the excessive State dues were given as reasons for waiving the local dues. The motion was unanimously accepted. It was pointed out that the State dues are still required.

The State Board of Registration has filed charges against Mr. Sonny Rhone for practicing Land Surveying without a license. This came about after he submitted a proposal to Natrona County to provide G.P.S. surveying and engineering services on a county project. Brad Clow and Chris Asbury have been subpoenaed by the Attorney General to act as expert witnesses for the prosecution. Brad Clow also brought up the sad state of the corner recordation files at the Natrona County Records Department. Chris Asbury suggested setting up a meeting with Mary Ann Collins, County Clerk, to discuss the filing with her. Chris, Brad and Jim Jones agreed to attend the meeting. Chris will arrange it and inform the others.

Brad has contacted Merrick Engineering of Denver, Colorado about the requirements of filing corner recordations for all Public Land Survey Corners used during their G.I.S. survey for the City of Casper. They responded, saying they were not required to file recordations, because they did not use any corners for control during their survey. Discussion followed saying that since Merrick's survey established State Plan Coordinates on all Public Land Corners used, that is considered an improvement to the corners, and therefore corner recordations are required. Brad will respond to Merrick again and will keep the Chapter informed.

After a request by Jim Jones, Brad Clow said that Worthington, Lenhart and Carpenter would be happy to put on a GPS demonstration for the Chapter sometime this fall. The type of demonstration and the date will be decided later.

It was suggested and agreed upon that the next meeting of the South Central P.L.S.W. Chapter be held at a local restaurant with the Chapter picking up the tab. More information will be forthcoming.

Professional Land Surveyors of Wyoming

Education Committee

15 March 1992

Background

The Professional Land Surveyors of Wyoming (PLSW) has as an objective to provide a quality education program. Through the years various attempts have been initiated to offer various programs with little success. The causes of these failures are due to external circumstances, including economic conditions. With these factors, it was decided to initiate a new approach.

The Program

The PLSW membership appear to reside in geographical regions that generally relate to the PLSW chapter regions. The approach is to utilize this fact and initiate a voluntary and inexpensive series of courses on a regional basis. The intent is to provide a series of one- or two day courses, on weekends, at a convenient geographical location for the membership (nonmembers can attend at a premium tuition).

For the most part, this program has a minimal cost. The class would meet at a member's office (conference room) or at a county library meeting room (usually at no cost) thus eliminating meeting room charges. The tuition for the courses would cover the costs for the publications and travel expenses of the instructor. It is intended that the tuition would cover incurred costs.

This program would be administered by the PLSW Education Committee. However, when a chapter decides to offer a course, the chapter will assume all administrative arrangements. The course will be scheduled, facilities arranged, and announcements circulated. If the instructor has declined an honorarium to teach the course, the chapter must agree to pay transportation costs, accommodations, and meals. In some instances, the instructor will request a stipend, in which case the aforementioned expenses and stipend must be addressed.

Accompanying this report is an outline for proposed courses. These would be offered at a minimal cost, and address important topics of technical/professional practice. Before a course is offered, the course description, objectives, class outline, and course materials must be prepared and submitted to the PLSW Education Committee for approval. In order to initiate this program, Herbert W. Stoughton has offered to teach some of these courses. The course "Liability of Land Surveyors" will be taught by a person who will have to be paid an honorarium. The recommended instructor presented a portion of the topic at the 1992 Wyoming Engineering Society annual meeting (Sheridan), and the course was well received.

It is believed that some seed money will be required. The costs are for an overhead projector, projection screen, and handout printings. The latter costs would be recouped in the course tuition payments. It is not envisaged that this program would make signifi-

cant profits, but would make available technical education that is not offered by the professional educators.

At the present time all the course handouts would have to be prepared. It is anticipated that one or more courses could be available by mid to late 1992.

Proposed courses are as follows:

- Azimuth Determinations
- Intro To Statistics & Data Adjustment
- Wyo State Plane Coordinates - NAD1927 & NAD1983
- Intro to Geodesy
- Control leveling & Determination of Elevation
- Writing Land Survey Descriptions
- Liability of Land Surveyors



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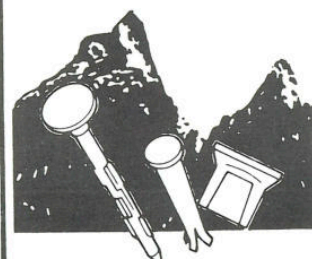
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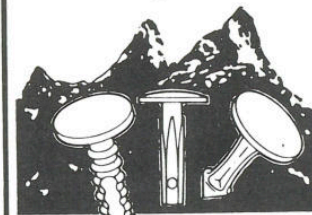
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