

# High Country News

Friday, January 9, 1981

#### STATES LEGISLATE 4

Western states loom larger as a key national energy source, and the governing bodies of the region face new pressures in 1981.

#### WIND RANCHING 6

ing "wind easements" from landowners and Livingston, Mont., may



#### SKI ANTIQUITY

Ron Watters and some Idaho old-timers look back to the days when skis were "snowshoes" and snowshoes were "webs."

#### WATT'S MOTTOS

Reagan's new Interior secretary unds off on the environment and other issues - a collection of quotes from speeches and interview

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## "I'm a juggie"

by Conrad Gilbert

"I'm a juggie and I jugged all day for \$100." That was the first line I wrote in a journal that I kept last summer while working for Consolidated Georex

Geophysics.
Seismograph work—or "jugging," as it is known in the business—definitely had its advantages. You earn \$100 a day for hiking in the mountains of northwestern Wyoming, living out-doors, making "James Bond" entries and exits by helicopter and seeing coun-try few people have seen. No previous experience required. An ideal job in many ways.

Some friends berated me for working for the oil companies. The corporations for the oil companies. The corporations that would buy the seismographic information were "the heart of the problem" and I was helping to destroy wilderness. But my friends were often dressed head-to-toe in Gore-Tex, loading their plastic kayaks into pick-up trucks, readying themselves for a day of communing with nature. You can hate be producer, and love the product set. the producer and love the product so much. I would use that paradox in my defense sometimes. I was never sure that I believed it myself.

I had reservations about the work, but that \$100 a day talked louder. I had out that \$100 a day talked louder. I had tried heavy construction work and roughnecking on oil rigs — selling my-self for three months so that I could live well the other nine. Looking back, I am amazed that out-

door work so fun, so pleasant and so exciting could lead in the end to oil recovery which, in the long run, can be so harmful to the environment.

I check the day's game plan at 6:30 a.m. and find out I'm working back crew today. That's fine with me. For some reason I like back crew. It means I get to sit in camp for an extra half hour drinking coffee and writing this morning. Shooters and primates go out first to start making us all money.

Consolidated is a French company with U.S. headquarters in Denver.

with U.S. headquarters in Denver.
They have done seismic studies all over
the world. When they decide where
they want to explore, they draw a straight line on the map along which the crew will test. Most of the western United States has been mapped out in square mile grids, and the seismic com-

United States has been mapped out in square mile grids, and the seismic companies are drawing a lot of lines.

The goal is to discover gas or oil deposits within the geological stratums of an area. This is done by blowing up dynamite, sending shock waves through the ground. The results of these tests are then analyzed by geologists who decide whether the area



Photo by Richard Murphy, Jackson Hole News HELICOPTERS CARRY equipment for seismic testing into rugged mountain areas in northwestern Wyoming. Crews leapfrog each other in the whirlybirds, setting off explosives, picking up the equipment, and moving to the head of the seismic testing line.

an be economically developed.

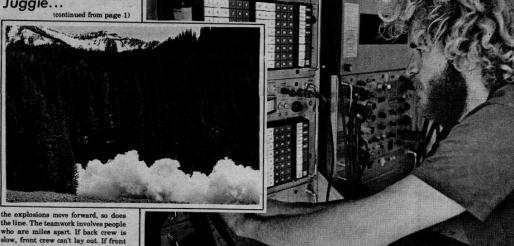
A portable crew like ours, working in nountains or rough terrain, has about mountains or rough etrain, has about 30 people. Two miles of electrical cables and jugs (small seismic sensors that are stamped into the ground to pick up the shock waves) are laid out along the line. Dynamite is detonated near the middle

so the shock waves are recorded both in front and in back of the explosion.

The operation leapfrogs continuously. The back crew picks up cables and jugs and loads them onto a helicopter which takes them to the front of the line where they are laid out again. As (continued on page 2)

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Juggie...



os by Richard Murphy, Jackson Hole News EXPLOSIONS along a seismic line in northwestern Wyoming forest are monitored by a sophisticated recorder, which charts shock waves bouncing off underground geological strata. The information is sold to energy companies, which review it for clues to the location of oil and gas.

the explosions move forward, so does the line. The teamwork involves people who are miles apart. If back crew is slow, front crew can't lay out. You can't shoot, not money. We try to work together.

There are six crews. Survey crew is the favorite—seniority is the only way to get there. Survey crew marks the line for everyone else to follow. The job involves map-reading and orienteering. The best part about survey is that you stay in front of the explosions. The land hasn't been violated yet. Other crews are still behind. There is wildlife. Survey crew finds all the nice moose antvey crew finds all the nice moose ant-

Front crew comes next, laying out the line. Your load gets lighter as you roll

out cables and stamp in jugs.

Prima Cord crew or "primates," as they are called in seismo jive, are next.

High Country News

Primates handle the dynamite, setting up the shots, and are rewarded with headaches and irritated skin. Nitrate dust from the dynamite is nasty stuff and it gets everywhere. The dynamite is set on stakes three feet off the ground, ne five pound stick every 15 feet. The shots are connected with Prima Cord. an electrically stimulated flash cord used to ignite the dynamite. Usually 12 sticks of dynamite make up one shot; 60

ounds of TNT per blast. Next come the shooters and fire crew The shooters are the glamour boys of the job. They set off the charges, usually standing no more than 20-30 yards away. It's a dusty, noisy, fourth of July job. I hate those explosions. The concussion rolls right through. It rattles your brain. The fire crew comes run-ning in behind the shot with shovels and water to make sure a fire hasn't

A few hundred yards behind the shot is the recorder, a fancy and very expensive piece of equipment that monitors and depicts graphically the shock waves. The recorder is run by one person, the observer, who oversees the whole operation, communicating to all

the crews by radio.

Coming up the rear is back crew, the least popular job. Back crew picks up cables and jugs and any trash left be-hind. No wildlife but plenty of exer-

The ride out in the chopper is cold, The ride out in the chopper is cold, even in August; 80 miles-per-hour in an open chopper at 9,000 feet. Even though we're freezing, we hang out the doors of the chopper like dogs in a pick-up truck, marvelling at where we are.

On the line first thing in the morning it is mixed as each.

it is quiet and peaceful. Time to relax in the sun, eat some breakfast. I write: "Presently sitting on an approach, ridge to the Wyoming Range, east of Cliff Creek. 360 degree mountains. To the southeast the Winds are socked in with storms, lightning and thunder, and I can see fresh snow on some of the peaks when the clouds lift a little. The Gros Ventres to the northeast are also (continued on page 14)

Another view of seismic testing ...

Editors' note: Environmentally, seismographic testing for oil and gas can in many cases be a relagas can in many cases be a reia-tively benign practice, as Conrad Gilbert says. However, there are in-stances when the areas explored, the techniques used, the season of activity, and the habits of seismic crews have posed a threat to wild-life and wilderness. HCN asked Sierra Club Northen Plains rep-resentative Bruce Hamilton to me of the environmental impacts:

impacts of seismic exploration can, in most cases, be minimized. To date major confrontations between seismic testing companies and conservationionists have been few. I know of only two: One in the Bob Marshall Wilderness comin the Bob Marshall Wilderness complex in Montana and one in the DuNoir proposed wilderness in Wyoming. The Sierra Club was one of several groups that objected to both these proposals. In the case of the DuNoir, the Forest

Service approved a request by Chevron to conduct summer and-or winter seisto conduct summer and or winter serimic exploration, despite the Forest Service's own environmental analysis' conclusion that winter-only explorations and environmentally preferable. tion was environmentally preferable. Summer operations would have in-

volved disturbance of wildlife, livestock, backpackers and fishermen. In winter these conflicts would be greatly reduced. The winter-only operations also posed less hazard of fire and caused less damage to surface vegetation After reopening the public comment period the Forest Service revised Chevron's permit to require winter-only operations, and the Sierra Club withdrew its objection to the proposal.

withdrew its objection to the proposal. Seismic operations in the Bob Marshall, Great Bear and Scapegoat Wilderness complex have been proposed by Consolidated Georex Geophysics, the same firm for which Gilbert worked. In this case the straight lines on a map that CGG submitted for approval were extremely insensitively drawn. One went right along the Chinese Wall—one of the most outstanding natural one of the most outstanding natural eatures in the Bob. The lines ran right features in the Bob. The lines ran right through the heart of one of the last strongholds of the grizzly bear — a species classified as threatened under the Endangered Species Act. Grizzlies are extremely sensitive to man's activities and dynamiting near a den site or flying helicopters around a feeding ground could jeopardize the bears.

Some of these impacts could be mitigated, others not. But conservationists, including the Sierra Club, felt that a

clear line had to be drawn. Why permit smic exploration in an area where oil and gas development was so clearly in-

appropriate?

To open this rugged, spectacular country to dynamiting, roads, drill rigs, pipelines and gas sweetening plants would be first-order desecration, so why permit even the first step down this d to destruction?

road to destruction?
Gilbert has described one of the least
damaging types of seismic operations
portable crews and stand-off
changes. If you want to see the other
side of the seismic coin fly over
Wyoming's Red Desert. There, the flag
men are followed by bulldozers that rip
straight sears across the foce of the destraight scars across the face of the de sert that last for decades. The bulldoz-ers clear the way for trucks carrying seismic instruments, although the seismic instruments, although the trucks could, in most cases, travel cross-country without the benefit of a road. Tens of thousands of acres of pre-viously unroaded wilderness have been

destroyed in this manner.

In summary, seismic operations can cause minimal environmental damage if they are conducted in the right place, at the right time, with the least disruptive techniques, and if the crews con-duct themselves responsibly. When these unwritten rules are violated, as they have been in the past, seismic operators can expect to meet opposition.

— Bruce Hamilton

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Thomas A. Bell Geoffrey O'Gara Michael Moss

Jazmyn McDonald Kathy Bogan y Sara Hunter-Wiles

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For most of the year, we at HCN like to think that our business is strictly the news: Finding it, writing it, illustrating it, distributing it, and waiting for the echo when our investigations bounce off the wall of our readers, be they bureaucrats, ranchers or school teachers.

It is not that simple, of course. Publisher Charles A. Dana, quoted above, knew that almost a century ago, and his remark is a good remedy for swollen-headed writers. But it is not that simple, either.

Once a year, HCN gives an obligatory bow to economic reality and reports on its balance sheets. Sometimes it's exhilarating, as it was last year when subscriptions topped 4,000. But that was just one good sign amid several more ominous portents. This year the hopeful signs have disappeared and the perennial problems loom large. HCN is in serious trouble

ery generally this is the situation: We have scrimped ourselves into a corner. With almost no capital to back us up, HCN has survived by getting extra hours  $from\, staff and\, volunteers,\, using\, antiquated\, equipment,\, and\, paying\, employees\, only$ \$6,398 a year. With expenses for printing, rent, and other services going up rapidly and readership dropping this year, even our scrimping will not get us by.

Indications that we need financial resuscitation have cropped up throughout 1980. After a six-month search, no qualified news editor would come to work for our salary. Staff members have found the pay is not enough to support themselves and their families. It has hurt us outside the office, too: Our freelance rates are far below the norm, and the number of writers who can afford to contribute has diminished rapidly. The spirit is willing, but not the wallet.

Perhaps I should leave it at that, and ask you to send money. But before I do that, I'd like to explore some of the reasons HCN exists, and map out our plans for turning the paper around. If we succeed, HCN will have a much stronger voice in the region, and pleas like this will not be made again.

HCN is, in many ways, a paper that reflects and belongs to its readers. Like many of you, it lives a respectful distance from the power centers that control so many lives and so much land. It is paid for primarily by your subscriptions — we have few ads, and there is no wealthy bankroller behind us. The staff gets much of its motivation from the encouragement in letters from our readers.

What we try to offer in return is thorough, clear-headed coverage of issues that are crucial to this region's future. In a time when media are rapidly consolidating and homogenizing, we remain small and independent, and still able to add the personal toucher and critical views of individuals, not conglomerates. Experience has made us skeptical of "objective" journalism — which so often simply avoids controversy — but we strive for fairness nevertheless.

There is a lot of dedication here, too. A reporter knows he or she can have more impact writing for HCN than reporting for, say, Newsweek; that helps make up for the low wages. Nobody is looking for sympathy — we're doing what we like best. But this is not an easy time for doing what we like best.

A 1976 study of independent publications by the Northern Rockies Action Gro concluded: "A natural market for (independent) newspapers is not among the region's vast benefits." Possibly so. Publications are folding up their tents around - Straight Creek Journal and Mountain Gazette in Colorado, and Borrowed Times in Montana, to name only the most recert casualties

We are not at all eager to join the list. Nor do we think we have to. We believe the paper is strong enough, and important enough, to pay its own way.

But when new expenses hit - rent raises (30 percent this year) and increased printing costs (also 30 percent) — there is no easy way for us to absorb them. We cut back here and there, and the staff agrees again to forego cost-of-living raises. Unhappily, we find ourselves dying a slow death, shrinking while the issues we cover grow mammoth before us.

Is there any way out? We think so.

If HCN mounted a sophisticated promotion campaign, improved its newsstand look with higher quality paper, and could afford an advertising and promotion person, it could reach a vast new audience. Because we have no capital reserves, none of these things were possible in 1980, essential as they are to our survival.

The impact shows up in our subscriptions and renewals. On Jan. 1, 1980, after a major promotional campaign in the fall, we had 4,032 subscribers. In the last six months of 1979, we tallied almost 900 new subscribers and a 70 percent renewal

Compare that to 1980, when we have not had the funds to promote the paper. In the last six months we have had a 60 percent renewal rate, and only 385 new subscribers. Subscriptions are down to 3,289.

How important is our survival? Look through your regional reading material. Where do you turn for background on the origins and schemes of the Sagebrush Rebels? Where do you find out about uranium tailings used in the foundations of thousands of homes around the region? Where can you explore what it's like to live in an energy boomtown - after the boom?

A new administration in Washington vows radical changes in public lands management. Clean and renewable energy technologies move to the federal backburner. The struggle between our region's development surge and the desire to conserve its natural wonders intensifies. How important is HCN?

In our quest to put our chronic financial problems behind us, we have thought about seeking investors. What we encountered was enormous expense to m

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securities laws before we could even approach possible investors (and we felt a twinge of sympathy for industries that complain about over-regulation). The only investors we could approach — those already familiar with the publishing business - would have insisted on taking control of HCN

So we are turning to our readers, and not for the first time. But this is not a request for the few thousand dollars we would need to struggle through 1981. I feel it's unfair to keep asking the staff to subsidize the paper year after year. The budget we have developed is designed to put the paper on a healthy, self-sustaining basis for years to co

Can it work? We think so. HCN has a history of confounding the odds. Our past might surprise a few bankers or finance experts. And we would relish the chance to take another unconventional step toward raising our cry in the high country.

Strong convictions need strong voices.

Many of you have given to the research fund, which finances travel and research expenses for reporters. We are asking now that you help directly with the business side of the paper's ledgers. There are several ways to do this:

> Extend your present subscription one, two or thre years at the full rate, \$15 per year.

Send us a donation, if you can afford it. Take out a lifetime subscription for \$500.

Perhaps best of all, help us raise money by giving gift subscriptions to as many persons as you can dream up — aiding us financially and helping us reach more readers

If you have a business, take out an ad in the paper

And you can spread the word to others that an old

You may have other ideas. Feel free to write or call us and we'll discuss them, as

well as any questions you may have about our predicament. We know that we are asking a great deal. It took many staff discussions and considerable research to decide to go public with our problems. Our conclusion is that HCN is worth saving, and the paper's friends can help.

There are difficult years ahead. We in the West need the facts and the ideas of creative minds, if we are to navigate those years. Getting those facts, and giving them to you — that's what this paper is all about.

Geoffrey O'Gara

### Sign up here and join the HCN lifeline.

Yes, I'd like to pump up HCN's circulation. () Please make my subscription a lifetime deal. Enclosed is my check for \$500.

() Please send HCN to the folks below. Enclosed is \$15 for each year (25 issues).

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#### The legislature merry-go-round

### Western officials mount up for the 1981 sessions

"Good morning," a reader wrote the Idaho Statesman last week. "No person's life, liberty, or property (including public lands) are safe while the legislators are in session." Graced by that note, most of the region's state houses open for business this month. With pre-filed bills running in the hundreds, legislative agendas include everything from fighting the federal 55

With pre-filed bills running in the hundreds, legislative agendas include everything from fighting the federal 55 mph speed limit to redistributing education funds. There's a smattering of tax relief, property reassessments, budget cutbacks, and program slashing on almost every docket.

What follows is a preview of the

What follows is a preview of the major energy and natural resource issues likely to come up in this year's sessions. As legislators and lobbyists ascend capitol steps, from Boise to Lincoln and Helena to Santa Fe, to conduct their business, HCN will bring you news of the most significant developments.

#### COLORADO

Democratic Gov. Dick Lamm has never enjoyed good relations with the Colorado legislature, and this session he'll have one less potential supporter in the House, where Democrats lost one of their 27 votes to the Republicans' 39-seat majority.

39-seat majority.

The Republican Senate leadership remains unchanged. But within the House, political observers expect combative stands from the new minority leader, Rep. Federico Peña, described as a "young Turk" by Republican Party staffer David Diepenbrock.

staffer David Diepenbrock.

Highway maintenance and property tax reassessments, fueled by redistricting battles, will top the agenda. Natural resource issues should include minimum stream flow proposals, plans by Senate President Fred Anderson to push for a state dam building agency and other pro-water development schemes. Various Sagebrush Rebellion bills involving transfer of federal lands to the state and recodification of the state's water quality act will also be considered.

considered.

In light of the controversy surrounding the Lowry hazardous waste disposal site, a siting guidance bill can be expected. But Reed Kelley, chief lobbyist for the Colorado Open Space Council in Denver, says the only positive gain for conservationists may be improvements in the state mined land reclamation act for noncoal minerals.

#### IDAHO

The hot topic in Boise, capital of the potato state, is whether newly-elected state Sen. John Peavey (D-Carey) can hold on to his seat. Peavey, whose victory was called the "only shining ray" in the election by state conservationists, is being challenged by his November opponent in a voter registration dispute.

tion dispute.

If Peavey is ousted, and apparently
the Republican-dominated Senate will
decide the question, that body would
swing to a two-thirds, veto-overriding
house, spelling trouble for Democratic
Gov. John Evans. The current make-up
is 23 Republicans and 12 Democratz; inthe House, it's 55 Republicans to 15
Democrats.

Peavey, a state representative for seven years, foresees a legislature



"closely tied to big business and working damn hard on economic issues." If he retains his seat, he says his first priority will be allowances for cities, and irrigation and canal companies to sell revenue bonds to construct alternative energy projects, such as geothermal and small storage dams. The proposal is convend by writities.

osal is opposed by utilities.

Pat Ford, chief lobbyist for the Idaho
Conservation League, says he'll be
fighting new Sagebrush Rebellion
proposals, a repeal of the local land use
planning act (which mandates county
land use plans), and water quality re-

Given time and opportunity, he says he'll support a ban on dredge mining, three additions to the minimum stream flow system, and a new mineral severance tax of five percent proposed by the governor. With a projected \$8 million annual revenue, "that's not much money," says Ford. "But we're preparing for the day that oil and gas are found in the control of the contr

Ford also hopes to influence an upcoming Idaho Utility Commission appointment, to be confirmed by the legislature. The commission among other issues will decide whether to allow a coal-fired power plant for southern Idaho

Fiscal wrestling, however, should take the lead through much of the session's 60-plus days. "After two years of making across-the-board cuts," the Idaho Statesman reports, "the next Legislature may have to cut whole programs to reduce costs."

#### THE GREAT PLAINS

Nebraska's unique unicameral (one house) non-partisan legislature opened its doors last Wednesday for at least a 90-day session. Republican Gov. Charles Thone says his basket for this session holds just three eggs—tax relief, budget items and water. The legislature, conservative as usual, seems seems able.

But since William Jennings Bryan swept the state with populist prairie radicalism in the 1930s, there's been a smattering of alternative ideologies. Conservationists, says Rose McCullough, a paid lobbyist for the Sierra Club, will back new in-stream flow policies, ground and surface water management reforms, and financial incentives for saying energy on the farm. Nebraska conservationists will be

Nebraska conservationists will be bucking a proposed two-cent cigarette tax to finance state water development projects, not so much on its merits (less than \$4 million would be generated a year and some projects are environmentally benign, says McCullough), but rather as a bargaining chip for getting in-stream flow reforms.

In the wheat country to the north, where a quarter of the residents still live on the farm, mineral owners and surface landewares; in North Delecter.

In the wheat country to the north, where a quarter of the residents still live on the farm, mineral owners and surface landowners in North Dakota will be battling each other. Mineral owners, coalesced into the North Dakota Lignite Council and boosted by the new governor's chief of staff, John Smith, a former council lobbyist, are pushing for legislation that would give coal owners with 51 percent or more of the mineral resource the right of eminent domain over surface owners. To date, the principal mineral owner has had to petition other mineral owners for a consensus and farmers, by obtaining even a tiny fraction of mineral rights, have effectively stymied coal development.

The distribution of an increased oil production tax (more than doubled from last year's five percent) will also be considered by the 150-member North Dakota Legislature in this 60-day session. John Norton in Dickinson, one of six paid lobbyists for the North Dakota Resource Council, says power plant siting, coal severance taxes and seismograph crew regulations will also get attention in what he foresers as largely a "defensive" year for conservationists.

With some 400 bills prefiled, Carl Limvere of the Farmers Union says he's already overwhelmed, but that with two other lobbyists he hopes to effect new property tax reforms and energy development impact funding for communities.

munities.

The predominant fiscal conservatism in the region could translate into funding cuts for new water projects, says Maxine McKeown, a farm organizer with the South Dakota Resources Council in Bushnell. The South Dakota legislature, expected to focus largely on revenue problems, may also consider policies on railroad rights-of-way purchases and industrial facility siting.

#### MONTANA

The Montana legislature, rocked by the Anaconda copper smelter closing and general criticism from businessmen, will probably spend most of the 1981 session undoing what the state government has done in the past. Legislation has been pre-filed or announced to weaken the recently ap-

Legislation has been pre-filed or announced to weaken the recently approved state ambient air quality standards, to streamline and make exemptions to the state's Major Facility Siting Act, and to repeal or modify the 1973 Water Use Act, which allows the state to reserve in-stream flows.

to reserve in-stream flows.

Sen. Tom Conroy (D-Hardin) plans legislation to repeal the nuclear-waste initiative, which voters approved by a slim margin last fall. 'Our daily lives are surrounded by more potential damage from radiation from microwave ovens, solar panels and television sets than from mill tailings, 'said Conroy of the initiative, which would ban disposal of uranium mill tailings within the state.

Anaconda officials and others testified this month before legislative committees, saying that corporations now view the business climate in Montana as hostile. Along with politicians like retiring Gov. Thomas Judge, businessmen warned against a proposed hardrock mining severance tax advanced by state Sen. Tom Towe (D-Billines)

D-Billings).

Don Snow, of the Environmental Information Center, ranked the defense of air standards, the siting act, and the water reservations system as top priorities for his organization. The EIC is also pushing legislation to tighten up the state Subdivision and Platting Act, which, according to a recent EIC survey, has been repeatedly bypassed by subdividers using 11 exemptions allowed under the act.

Bills are also expected to set up an income tax check-off for a fund to manage non-game wildlife, and to create agricultural districts that would allow farmers and ranchers to take property tax breaks in return for keeping their land in agricultural production foli-a provided for years auriq gendroug or

period of years.

Like most states in the region, Montana will consider a Sagebrush Rebellion bill. This one will be initiated by Sen. Mark Etchart (R-Glasgow), empowering the state to claim most federal lands within the state.

Republicans, who have taken control of the state legislature for the first time in 28 years, are promising tax relief, which House Speaker Robert Marks (R-Clancy) said would include property, income and business tax relief. Democrats say the Republicans may go too far, leaving important state programs without the revenues to operate.

neaving important state programs without the revenues to operate. Pete Jackson, spokesman for the pro-development Western Environmental Trade Association, said the legislature was trying to "simplify the process and give business a reasonable break."

#### NEW MEXICO

The New Mexico state legislature has never been very friendly to environmental issues, "but at least it won't be much worse than it has been historically," according to Don Hanceck of the Southwest Research and Information Center. Much of the legislation in 1981 will be aimed at dismantling existing environmental laws and programs. A major thrust of the assault is being directed at the state Environmental

Improvement Division. Legislation is certain to be introduced which would reduce the division's enforcement power. Hancock says, "The division has been historically understaffed and it been historically understaffed and it has been difficult for them to do effec-tive regulation." The proposed legisla-tion would require the division to get approval from the Environmental Im-provement Board — the division's board of directors — before taking any regulatory action. According to one ac-tivist, "This would virtually nullify ef-fective afforcement action."

fective enforcement action."

Several New Mexico laws, notably the strip mine and clean air laws, need amending to bring them into com-pliance with federal statutes. In order to remain a compliance state and avoid federal interference, New Mexico will have to keep some fairly stringent en-forcement authority.

The uranium industry is apparently going to ask for a reduction in the state severance tax on uranium. The tax was just raised last year, but the industry pointing to recent layoffs and the de-pressed market will claim that it is too high. Observers say the chances are about even that the industry will get its

John Bartlit, state chairman of New Mexico Citizens for Clean Air and Water, said his group will again at-tempt to push through a major facility siting act, modeled after existing laws in Montana and Wyoming. The prop-osal has been introduced in the past and defeated. Bartlit is hoping to get some support from companies and groups outside the environmental community.

"If it is only pushed as an environmen-tal bill, it won't go anywhere," he says. A stalled geothermal electric power demonstration project near Los Alamos may also receive some legislative at-tention. The project is a joint effort of Public Service of New Mexico and Union Oil Co., and has been embroiled in a number of environmental disputes and jurisdictional squables. A Los Alamos legislator is planning to intro-duce a bill to exempt demonstration

projects from environmental review.

A bottle recycling bill, non-smoker's rights legislation, and auto inspection and maintenance to control air pollution may also come up. If past experience is any indication, these bills are given a very slim chance of passage.

#### WYOMING

The Wyoming legislature's bill docket for 1981 will be awash in the state's scarcest commodity: water. The Republican-dominated legislature, litchanged from last year, will be considering bills to allow water export for coal slurry lines and to authorize the state to acquire and protect minimum in-stream flow in Wyoming rivers. Attempts will also be made to bring

natural gas "sweetening" plants under the state's Industrial Siting Act (simi-lar legislation passed the House last year but failed in the Senate) and to modify the state's Environmental Quality Act. The usual debate over whether to raise or lower the severance tax will take place: Backers of the depressed uranium industry want to lower the 5.5 percent rate on that commodity; environmentalist groups want to up the oil and gas severance tax, pre-

sently at four percent.

Members of the Sheridan-Little Horn

Water Group, who have failed in the past to get approval to export water in a coal slurry line, are back again. While the group has not yet named a legislator to introduce its legislation, spokesman John Jenkins calls the outspokesman John Jenkins calls the out-look for passage favorable — in the meantime, an expensive media cam-

paign is under way.

Both the Powder River Basin Re source Council and the Wyoming Out-door Council are fighting the Lit-tle Horn slurry proposal. The groups argue that it will not discourage synthetic fuel and power plants from being built within the state (as Jenkins claims) or necessarily force railroads to lower their haulage rates. Public opposition to exporting the state's water remains fairly high, according to polls.

Wyoming Outdoor Council Director Pete Kozisek thinks 1981 may offer the best chance for passage of in-stream flow legislation. An initiative drive is under way. Gov. Ed Herschler plans to back one bill, and several others are in the works. Most of them would recognize in-stream flow as a beneficial use and authorize the state Game and Fish Department to purchase, but not con-demn, water rights to protect fish and plant life in streams.

#### UTAH

No one likes their budget cut, and Dan Lawrence, head of Utah's Division of Water Resources, a key mover behind the Central Utah Project, is no exception. But to the delight of Salt Lake environmentalists, he would lose funds and three staff positions in the legislature's proposed budget. Fully one-third of the state's legis-lators are brand new, but the overall

Jan. 9, 1981 - High Country News-5

make-up remains the same: The typical Utah solon is white, male, Mormon, college-educated, business-oriented and making above-average income; en-vironmental quality is expected to re-ceive little support in the 60-day ses-sion that starts Jan. 12.

Other expected issues, says G. G. Brandt of the League of Women Voters, include a nuclear and hazardous waste dump siting bill, flood control programmers are a second or the same state of the same second or the same second s, various mass transit schemes for Lake and several solar energy bills. Most state officials now want a severance tax, but tempers may flare over how to distribute the windfall. The state Land Board will push for new con-trols on mining hardrock minerals on state land.



### 

### Trackings

### Deal to stop Forbes Ranch development falls through

(see HCN 4-4-80 for previous story)

Efforts to acquire and preserve the 12,000-acre Forbes ranch in southwest Montana collapsed last month when it became clear the U.S. Forest Service could not come up with the \$6.15 mill-

ion purchase price.

The ranch, bounded by Yellowstone
National Park and the Yellowstone National Park and the Yellowstone River, is considered a key extension of the park's natural system, according to Mike Williams, a lands specialist with the Gallatin National Forest. It con-tains critical winter range for the park's elk herd and several thousand acres of grizzly bear habitat, Williams said

The Forest Service has been trying

The Forest Service has been trying for years to add the ranch to the public domain, in part because Malcolm Forbes, publisher of Forbes magazine, at one time planned to subdivide the property. Forbes bought it in 1970.

The Forest Service in April signed an option with the wealthy Forbes family for the land purchase, and negotiations advanced to the stage in October where a final deal was imminent — until the national elections threw a wrench into the works. the works.

e Forest Service, unable to squeeze funds out of the current and upcoming budgets to use the option, earlier this year asked the Nature Conservancy to step in and buy the ranch, with a promise that the Forest Service would buy it back in January 1982.

At a meeting in October in New York with Leonard Yablon, executive vice president of the Forbes organization, it was agreed the Conservancy would be substituted for the Forest Service in the already-signed option. The focus turned to determining whether the Forest Service could make a firm commitment for the funds, said Bob Kiesling, the ervancy's Montana coordinator.

Prospects were good that the Forest ervice would secure the funds in its Fiscal Year 1982 budget, but Ronald Reagan's victory and the seizure of con-trol of the U.S. Senate by the Republi-cans "caused considerable deteriora-tion in the likelihood of funding for the Forest Service at a later date," Kiesling

"After taking the pulse of the new administration, we decided there will be scant money at the federal level for

ce scant money at the tederal level for acquisition of private lands," he said. The arrangement was dependent on the Forest Service stepping in at a firm point, as the interest payments on the \$6.15 million purchase were going to be very costly to the Conservancy, Kiesling said.

Kiesling and Williams said they have Riesing and Williams said they have not given up hope of keeping the ranch intact and acquiring the land in the fu-ture. Kiesling said he is pursuing the possibility of finding private investors willing to buy the ranch from Forbes and then establish a "conservation"

purchases and industrial facility siting

easement" on the property.

Kiesling said he is hopeful Forbes will hold onto it for now in its present form. Forbes' asking price is \$7 million

on the open market.

Williams said the purchase was the top priority in the Forest Service's

Northern Region.

"We offered to forgo any other land acquisitions for years in Montans if they (national headquarters) would shift acquisition funds," Williams

In addition to providing permanent protection for the wildlife habitat, the purchase would have opened public ac-cess to three mountain areas and seven miles of river frontage, he said.

The ranch contains the famous Devil's Slide and the ghost towns of Aldrich and Evandale. The purchase would also have given the Forest Service ownership of two homesteads on Bassett Creek, across the river inside the boundaries of the Absaroka-

In addition to the possibility of direct purchase by the Forest Service or the Nature Conservancy, the Forest Ser-vice also looked into a complicated land exchange with Forbes, involving lands in the Rattlesnake area near Missoula and public coal lands in eastern Mon-tana, Williams said.

#### MX impact study suffers attacking reviews

( see HCN 12-12-80 for previous story.)

With the incoming administration still undecided on the system, the Air Force has released the draft environmental impact statement on the proposed MX nuclear missile.

Costing a reported \$17 million and weighing 20 pounds, the nine-volume tome has received a drubbing from numerous federal and state agencies privy to review copies

Other reviewers have attacked the draft on a host of grounds, summarized by the Idaho Statesman in a December 23 editorial: "...it provides more woll mastra-m wan abad fitm, dul'O

data supporting what we already feared—that the MX would cost too much in terms of land (some 45,000 square miles), water (about 90 billion gallons by the year 2000) and money (any where from \$34 billion to \$100 billion, depending on whom you helieve!" ing on whom you believe)."

ing on whom you believe)."

Public comments on the draft study will be accepted through March. Public hearings have not yet been announced. Critics of the MX say they expect to challenge the study on the grounds that it fails to adequately comply with the National Environmental Policy. Act, criticuse are being acceptinated by Act, criticuse are being acceptinated by critiques are being coordinated by several groups and state agencies.

### Energy

## "Wind easements" sought for Livingston project

by Dan Hollow

LIVINGSTON, Mont. - A handful of ston as a site for a vast, 90-megawatt array of small wind machines.

As the first step in the project, the firm's marketing expert, Alvin Duskin of Sun Francisco, flew to Livingston to arrange "wind easements" with the ranchers. U.S. Windpower's goal is the construction of 1,800 machines spread out on about 5,000 acres of land. This presents a capital investment of out \$180 million, according to Bob Fitzgerald, manager of the company's Montana-Wyoming operations.

U.S. Windpower also plans similarsized arrays at Cape Blanco on the southern Oregon coast; at Goldendale, Wash.; and at Pacheco Pass, southeast of San Francisco. Fitzgerald said the Livingston site could be the first to see the installations, in about two years, provided the city is successful in draw-ing federal investment incentives.

When the full array, which will take about four years to construct, is com-plete, the 50-kilowatt machines would produce about 90 megawatts of power. The electricity would be sold to Montana Power Company at rates set by the Montana Public Service Commission.

Fitzgerald said the capital cost of the wind array would be about the sa for an equivalent-output coal-fired plant, while labor costs are higher. "The only thing that saves us is that the fuel is free," he said. The Montana ranchers who signed the "wind easements" stand to receive royalties of two percent of the gross output of any wind turbines put on their land. "It's like an oil explo-ration lease, only we know the wind's there," Fitzgerald said.

U.S. Windpower's Duskin said his company intends to be the first to mass

produce wind turbines — at a rate of more than 200,000 a year. "We'll make them like John Deere makes tractors, them like John Deere makes tractors," he said. The firm recenity completed installation of a small, 20-machine array in New Hampshire. Tests showed the 28-foot blades generated very low noise levels and caused no interference with television signals.

Fitzgerald said U.S. Windpower is also looking at a fifth potential site, Medicine Bow, Wyo, as a location for an array of the small turbines. The Federal Water and Power Resources Service has already awarded a \$6 million contract to Hamilton Standard of Connecticut to build a 2,000 kilowatt turbine near Medicine Bow. If that project is successful, the government wants to erect 50 of the machines.

#### OTHER PROJECTS

Southern Montana is also the pros pective site of a couple of other wind power projects. In early December, the city of Livingston received \$53,250 from the state's renewable energy prog-ram to provide 15 percent funding for a small wind farm proposed to power the city's expanded sewage treatment plant. Community Development Direc-tor Ed Storn and that proposeds tor Ed Stern said that prospects are good for Environmental Protection Agency sponsorship of the remaining 85 percent. The city's plan calls for eight 25-kilowatt or two 125-kilowatt

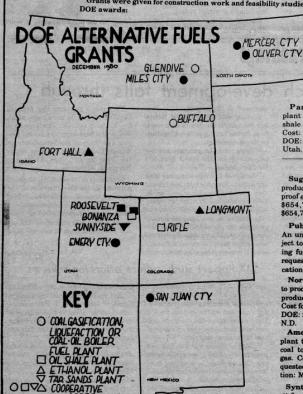
The Department of Energy in September erected a 170-foot wind measuring tower near Livingston after it was designated one of 18 "candidate sites" nationwide for a 4,000-kilowatt turbine planned by General Electric and Boeing. Other sites in the Rockies competing with Livingston for the wind turbine are Bridger Butte, Wyo.; Finley Air Force Base, N.D.; Minot, N.D.; and Wells, Nev.

Dan Hollow is a reporter for the Livingston Enterprise. This article was paid for by the HCN Research

The Department of Energy last month issued its second round of grants for "alternative fuels." DOE awarded a total of \$270 million for 79 out of a field of 1,000 proposals. The projects range from coal gasification plants to peatburning facilities, but the bulk of the funding went to synthetic fuels.

A third round of awards totaling \$30 million will be announced later this year. The third round will focus on innovative ways to burn coal, wood or peat.

Grants were given for construction work and feasibility studies. The following projects in our region received DOE awards.



FEASIBILITY STUDY

#### COOPERATIVE AGREEMENTS

Superior Oil Co. A plant to convert daily 20,000 tons of oil shale into 15,000 barrels of shale oil. Cost: \$14.67 million; requested from DOE: \$7.3 million. Location: near Rifle, Colo.

Paraho Development Corp. A plant to convert daily 45,000 tons of oil shale into 30,000 barrels of shale oil. Cost: \$35.2 million; requested from DOE: \$17.6 million. Location: Bonanza,

feet-per-day high-BTU coal gasifica-tion plant using Lurgi technology. Cost: \$39.9 million; requested of DOE: \$19.97 million. Location: Wibaux, Mont., or Glendive, Mont.

Mobil Research and Development MODILESE ET A BLO DE VERDENCE DE LA TRANSPORTA DE LA TRAN

#### FEASIBILITY STUDIES

Sugar Mill Ltd. Ethanol plant to produce 20 million gallons a year of 200 proof ethanol from corn. Cost for study: \$654,762; requested from DOI \$654,762. Location: Longmont, Colo.

Public Service Co. of New Mexico. An underground coal gasification project to produce electric power generating fuel. Cost for study: \$2.7 million; requested from DOE: \$2.7 million. Lo-

Northern Natural Gas Co. A plant to process North Dakota lignite coal to produce methanol and natural gas. Cost for study: \$4 million; request from DOE: \$3 million. Location: Oliver Co.,

plant to process North Dakota lignite coal to produce gasoline and natural gas. Cost for study: \$1.9 million; re-quested from DOE; \$1.9 million. Locaon: Mercer Co., N.D.

Syntana-Utah. A plant to produce oil from oil shale. Cost for study: \$4.7 million; requested from DOE: \$4 mill-ion. Location: Bonanza, Utah.

Plateau, Inc. Modification of an ex isting refinery to process shale oil. Cost for study: \$5 million; requested from DOE: \$4 million. Location: Roosevelt,

plant. Cost for study: \$3.4 million; requested from DOE: \$3.4 million. Location: Sunnyside, Utah.

Mountain Fuel Resources. A plant to produce synthetic natural gas and methanol from coal. Cost for study: \$7 million; requested from DOE: \$3.6 million. Location: Emery Co., Utah.

Rocket Research Co. Ethanol plant produce 10 million gallons a year o 200 proof ethanol using potato waste potato culls and barley. Cost for study potato culls and barley. Cost for study: \$439,048; requested from DOE: \$368,800. Location: Fort Hall, Idaho.

A plant to produce a boiler fuel mixture of low sulfur coal and oil from Califor-nia and Alaska. Cost for study: \$1 million; requested from DOE: \$1 million Location : Miles City, Mont.

### Energy

## Tribes, frustrated with lack of federal regs, consider code

resources are considering adopting a comprehensive environmental code, which could lead to court fights over who has the right to regulate development on Indian lands ment on Indian lands

The Native American Rights Fund, a private legal assistance organization, prepared the code at the request of several energy-rich tribes. It will be up to individual tribal councils to decide whether to adopt any or all of the code's six ordinances covering air, water, noise, radiation, waste and under-ground injection. The tribes also will set their own pollution limits, which federal agencies say must be as strict as federal standards.

The ordinances were requested because, with a few exceptions such as in the clean water and the strip mining acts, Congress did not mention Indian reservations in environmental legisla-tion. That makes it unclear whether federal environmental laws apply on Indian lands. Some activities directly related to mining, such as land reclamation, are covered by Bureau of In-dian Affairs or Office of Surface Mining regulations, but tribes have com-plained of inadequate enforcement of these rules. Although some states try to enforce their regulations on reserva-tions, the Interior Department says state rules are not applicable there. To deal with the regulatory vacuum

PAID ADVERTISEMENT

a few tribes, such as the Crow, have omposed their own reclamation and oning codes. The Native American Rights Fund models are designed to make it easier for other tribes. Duane Bird Bear, an Environmental

Protection Agency staff member who prepared the new code for NARF as a private consultant, says that a majority of the members of the local commissions that will enforce the code will be enrolled tribal members, but that non-Indian reservation residents will also be included. To discourage bureaucratic delays, the ordinances set time limits for tribal decisions. They also provide for appeals through the tribal courts if disputes cannot be settled

courts if disputes cannot be settled through administrative channels. John Echohawk, director of NARF, says tribes should expect legal challenges if they adopt the environmental ordinances. "As in many other areas of tribal law, the jurisdiction of tribes, states and the federal government has not been clarified. Unfortunately, it will require litigation." be says. will require litigation," he says

A decision on the jurisdictional ques

tion is still pending in federal district court in New Mexico, where United Nuclear Corporation is challenging the Navajos' rights to sue the company in tribal courts for alleged damages caused by UNO's Churchrock tailings dam break in July 1979



#### North Dakota gas plant uprooted by court

The U.S. Court of Appeals for the District of Columbia has dealt what may be a fatal blow to the proposed Great a fatal blow to the proposed Great Plains Coal Gasification Project. The court overturned a ruling by the Fed-eral Energy Regulatory Commission which would have allowed the consor-tium building the \$2 billion coal gasification plant to pass along the increased cost of the synthetic gas through a surcharge to its current customers. The surcharge is necessary for the company to convince private lenders to help fi-

nance the project.

Officials of American Natural Resources Co., the leader of the sevencompany consortium, called the ruling a "very serious setback" for the future of the plant. The companies have had a lot of trouble obtaining financing for the plant. In late November of last year, the Department of Energy approved a conditional loan guarantee for the plant of \$1.5 billion. However, the guarantees were granted on the condi-tion that the surcharge be upheld. The court ruled that FERC had over-

The court ruled that FERC had overstepped its power in authorizing the consortium to collect a surcharge from their customers during the four years the plant will be under construction. The fee would have been used to cover cost overruns. Private bankers viewed the surcharge as a necessary condition for granting private sector loans.

In addition, the court said FERC cannot set a tariff, or price, under which

cannot set a tariff, or price, under which the synthetic gas could be sold. In a

scathing comment on FERC's handling of the matter, the 3-0 court ruling said FF RC "was never given the job of devel sping a comprehensive strategy for developing the nation's synfuel industry...(FERC) possesses no expertise in making determinations regarding he relative merits of different synfuel processes, methods or technologies."

the consortium's gas customers, includ-ing General Motors Corp., who balked at being forced to pay premium prices for their energy. ANR said the decision will mean a delay of at least a year. The company did not say whether it would

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### For the last three years James G. Watt

has made a career of trying to gut environmental laws and hamstring conservation agencies.

Through Mountain States Legal Foundation, Watt has filed legal actions to:

- stop the Bureau of Land Management from preventing livestock overgrazing of the public lands;
- open up the Bob Marshall Wilderness to oil and gas exploration;
- stop the Environmental Protection Agency from cleaning up Denver's polluted air;
- deny Indians the right to levy a severance

tax on mineral development on their own reservations:

- stop the National Park Service from implementing a management plan to protect the Colorado River in the Grand Canyon:
- · prevent state public utilites commissions from implementing lifeline utility rates for disabled and senior citizens.

Watt's clients and contributors are the major exploiters

of the Rocky Mountain West. As Secretary of the Interior, Watt will be doling out the public's natural resources to these same parties.

We feel Watt has an ineradicable conflict of interest

and an unbalanced record that makes him unfit to assume the responsibilities as chief steward of the nation's natural resources.

We urge you to call immediately

or send telegrams to your senators and urge them to vote against the confirmation of James G. Watt as Secretary of the Department of the Interior.

> Citizens for a Good Secretary of the Interior V. Crane Wright, Chairman, 631 Emerson St., Denver, Colorado 80218

## OLD-TIME SKIIN

### when 'skis' were 'showshoes

by l



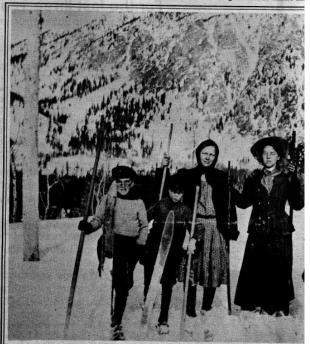
Photo courtesy of Idaho Historical Societies and Photo Courtesy of Idaho Historical So



WILLIAM BORDEN was one of the "skittre located on the western edge of today's Rive taken in Warrens, the starting point of Bo Gold Rush, the last gold rush in Idaho his

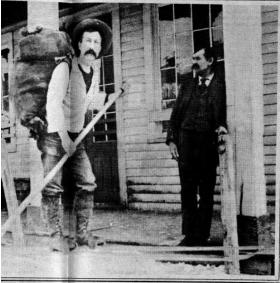


Photo courtesy of Idaho Historical Society UNTIL THE EARLY 1900s in the Intermountain West, snow-shoes, such as these used by Dan McRae and George Short in traveling from Warrens to Big Creek in central Idaho, were commonly called "webs." Skis were called "snowshoes."



### king in THE ROCKIES

by Ron Watters



ne of the "iski troops" who carried mailinto Thunder Mountain, a mining area of today's River of No Return Wilderness in Idaho. This 1897 photograph was ting point of Borden's mail route, a few years before the Thunder Mountain ash in Idaho history.

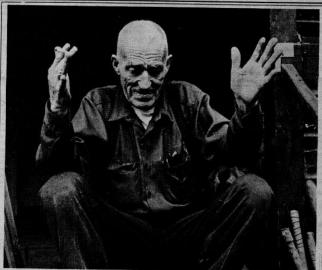


### and 'Snowshoes' were 'Webs

#### OLD-TIME SKIS

Skis in the early days were cut with a draw knife out of one solid piece of pine, fir, or whatever wood was preferred and available in the skier's locale. The tips were immersed in boiling water or steamed and bent upward to keep the ski from diving while gliding across the snow. Lengths of skis varied from short to the 9-to 10-foot range. Some skiers used a concoction of beeswax and paraffin for climbing and gliding, while other used loops of rope for long uphill treks. One skier even reported some success with bacon rinds.

Ron Watters is the author of Ski Trails and Old-timers' Tales, in which some of these photos appear. His most recent book is Ski Camping, available from Chronicle Books. He is associate coordinator of the Idaho State University Outdoor Program. This article was paid, for by the HCN Research Fund.



Lum Turner

I first met Lum Turner in a bar in Riggins, Idaho, three years ago when I was travelling Idaho searching for bits and pieces of historic information. I followed Lum's pick-up as he meandered back and forth on the winding, narrow road above the Salmon River that led to his home. Among the wonderful old-timers with whom I talked, Lum was one who still advocated the use of one pole instead of two for skiing.

In the winter, Lum carried supplies from the Kimberly Mine down the steep slopes of the Salmon River canyon to his home he had built in 1928. He told me how he'd put the single pole between his legs and use it as a brake to slow him down on his wild, hair-raising ski ride, his canvas pack brimming with supplies. With his eyes wide and hands motioning, he was again on his skis, dropping several thousand feet down the canyon. "Hell," he said, "when you get going 40 miles an hour, you need that pole. You got to stop!"

Lum died the summer before last, taking one last short ride down the canyon. Returning home from Riggins, his pole or skis couldn't stop him — he drove off the narrow road and his pick-up plunged into the Salmon River.

"I FEEL SORRY for people that have to live where they cannot snowshoe," wrote W. Pettit from Atlanta, Idaho, in 1880. "Life must indeed be a burden when there are no amusements but dancing." During Atlanta's livelier days, the group at left used skis for both work and play.

#### PURPOSE OF PUBLIC NOTICE

THE PURPOSE OF THIS PUBLIC NOTICE IS TO STATE THE STATE OF WYOMING'S INTENTION TO ISSUE WASTEWATER DISCHARGE PERMITS UNDER THE PEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 RPWCAA), P.L. 92-500 AND THE WYOMING ENVIRONMENTAL QUALITY ACT 05-11-01 et. seq. WYOMING STATUTES 1987, CUMULATIVE SUPPLEMENT 1973). IT IS THE STATE OF WYOMING SINTENTION TO ISSUE WASTE WATER DISCHARGE PERMITS TO 3) INDUSTRIAL FACILITIES, AND (1) OMMERCIAL FACILITY, TO MODIFY (1) INDUSTRIAL PERMITS, (2) OIL TREATER PERMITS, AND (1) MUNICIPAL PERMIT, AND CORREWE (8) INDUSTRIAL PERMITS, (1) COMMERCIAL PERMIT, (21) OIL TREATER PERMITS, AND (1) FEEDLOT PURMIT.

MAILING ADDRESS 12055 West 2nd. Place Lakewood, Colorado 80215

FACILITY LOCATION

Black Mountain Coal Mine
Sheridan County, Wyoming (6) APPLICANT NAME: PERMIT NUMBER:

The Wyoming Fuel Company plans to construct an open-pit coal mine north of the City of Sheridan. Wyoming which will be known as the Black Mountain Mine. The only "process water" discharge at the mine will be the outfail from a settling pond designed to collect runoff from the coal crushing and loading area. This discharge will enter an unnamed dry guich approximately 2500 feet from the Tongue River Class II Water. This discharge must meet effluent limitations which are considered by the State of Wyoming to represent best mod-lifed should more stringent limitations be developed at the federal levels which are designed to completely contain the ten year. 24 hour precipitation event. Because these punds will not normally discharge, they are not specifically identified in the permit but are covered by specific operation maintenance requirements.

Periodic monitoring of effluent quality and quantity is required with reporting of results quarterly. The FACILITY LOCATION:

(2) APPLICANT NAME

MAILING ADDRESS:

Wyoming Fuel Company

FACILITY LOCATION: PERMIT NUMBER

on.

Effluent quality and quantity must be monitored on a regular basis and reports must be submitted MAILING ADDRESS:
uarterly. The permit is scheduled to expire December 31, 1985.

(3) APPLICANT NAME: Black Butte Coal Company FACILITY LOCATION:

MAILING ADDRESS: P.O. Box 98 Point of Rocks, WY 82901

FACILITY LOCATION

Rock Springs, Wyoming Sweetwater County

PERMIT NUMBER:

The Black Butter Coal Company is in the process of developing an open pit coal mine located approximately thirty miles east of the City of Rock Springs, Wyoming. The only wastewaters associated with the mine will be runoff from disturbed areas and these waters will be held in ponds which are designed to completely contain the 10 year-24 hour precipitation event. Therefore, no specific discharge points are identified in the permit, but the proposed permit does contain requirements concerning the operation and maintenance of the runoff control ponds. All discharges which do occur will be in the Blitter Creck (Class III Water) drainage. Self-monitoring of effluent quality and quantity is required whenever a discharge occurs with reporting of results within thirty days of the event. The permit is scheduled to expire January 31, 1986.

(4) APPLICANT NAME

MAILING ADDRESS:

471 North 110 East Bountiful, Utah 84010 Green River, Wyoming Sweetwater County

FACILITY LOCATION: PERMIT NUMBER:

WY.0030236

The Covered Wagon Park subdivision is a development which will consist of a permanent housing subdivision of 150 units, a mobile home park of 150 units, 250 apertment units, and 30 commercial buildings. The development will be located at the crossing of interestate Highway 80 and the Green River approximately one mile northwest of the City of Green River. The proposed method of wastewater treatment is an acreated lagoon which will discharge into the Green River Class III water?

The proposed permit requires compliance with National Secondary Treatment Standards and Wyoming tim Stream Water Quality Standards effective immediately. Effluent limitations were based on the following. The effluent limitations included in the proposed permit are actually more stringent than necessary to assure compliance with the above Water Quality Standards, however, they are limitations which can easily be achieved with the acerated stabilization pond system which is proposed.

The proposed permit requires periodi conscioring of effluent quality and quantity with reporting of results quarterly. The permit is acheduled to expire December 31, 1985.

(5) APPLICANT NAME:

Husky Oil Company — Cheyenne, Wyoming Refinery

MAILING ADDRESS:

P.O. Box 1588 Cheyenne WY 82001

FACILITY LOCATION:

Cheyenne, Wyoming Laramie County

PERMIT NUMBER:

Wy-0000442

The Husky Oil Company's Cheyeane, Wyoming refinery does not currently discharge to surface waters of the State of Wyoming. However, the Company does have a discharge permit which authorizes a discharge to Crow Creek (Class IV Water). Under the existing permit, any discharge would have to meet "Best Available Treatment Standards" on January 1, 1981.

When Husky began complete containment of its wastewater in July of 1977, legal action was taken by a conservation of downstream water uners who claim damage for loss of water which was previously flowing in the stream. The Company is now attempting to settle that legal action by discharging a portion of its treated wastewater back into Crow Creek. The Company believes it can discharge a significant quantity of water if it is

only required to meet "best practicable treatment" limitations, however, only a very small volume of water could be released if "best available treatment" standards have to be met. Therefore, the Company has requested that its discharge permit be modified to extend the period of time during which it will be required to meet only "best practicable" limitations. The statutory desdline for achievement of "best variable" limitations and the statutory desdline for achievement of the stavaliable" limitations in a July 1, 1984.

Crow Creek is a Class IV Water for a distance of approximately 25-30 stream miles below the discharge Because achievement of best practicable treatment standards is sufficient to protect the existing use of the stream (trizingation), and because the maximum discharge from Husky i.5 MGD) is minor compared to the City of Cheyenne's sewage discharges to Crow Creek (8.5 MGD), this Department proposes to modify the discharge permit as required and the Company must report results monthly. The expiration date of the proposed permit (June 30, 1984) corresponds to the statutory deadline for achievement of Best Available Treatment Sta. iourds (July 1, 1984).

Under recently promulgated defearl regulations, no discharge permit imay be issued to an oil refinery unless a scan of 129 toxic chemicals has been performed on the discharge. The Company has been made aware of this requirement and this proposed permit will not be issued until such time as that information has been submitted and evaluated.

FACILITY LOCATION:

Wy-0028975 MAILING ADDRESS-

Sohio Petroleum

P.O. Box 673 Russell, Kapses 67667

Government Moore Lease, East Tisdale Field, NE%, Section 27, T41N, R81W, Johnson County, Wyoming

(7) APPLICANT NAME: Terra Resources

P.O. Box 2500 Casper, WY 82602

FACILITY LOCATION: Texas N Battery, Salt Creek Field, Section 19, T78N, R39W, Natrona County, Wyoming

P.O. Box 3047 PERMIT NUMBER:

FACILITY LOCATION:

Casper Air Separation Flant
Natrona County, Wyoming

PERMIT NUMBER:

Wy-000201

Big Three Industries Inc. plans to build an air separation plant at the junction of 13th Street and the North
Platta River in Casper. Wyoming. The plant will cool ambient air and draw off liquified Oxygen, Nitrogen, and cooling tower by westewater from the facility will be approximately 30,000 gallone per day of non-ontact.

The proposed permit limits the discharge to that proposed by the Company. The permit also more reposed permit limitations are needed.

Semi-annual self-monitoring is required for all parameters with the exception of oil and grease, which must be monitored quarterly. The proposed expiration date for the permits is December 31, 1985.

P.O. Box 430 Buffalo, Wyoming 82834 Buffale, Wyoming Johnson County

PERMIT NUMBER:

Wy-0030261

The proposed permit contains a schedule of compliance for achieving the ammonia limitations for BOD5. Total Suspended Solids, pH. Feeal Coliform Bacteria, and Total Residual Chlorine.

The limitation BOD5 are based on National Secondary Treatment Standards for that parameter and at this time it is but and BOD5 are based on National Secondary Treatment Standards for the parameter and at this time it is but on the standards that there are no violations of Wooming's in-stream standards for dissolved on the standards. The standards are standards and the standards are standards and the standards are standards. For the discharge to Redmeth which will occur during the summer, all limitations were based on National Secondary Treatment Standards except the limitation on fecal coliform bacteria which was based in Wooming's In-Stream Water Qualifornia Standards for Class IV Waters (200 organisms—100mls.) In addition, the town applied for and received less suggested the standards are standards for the parameter total suspended colids as authorized by federal regulations for dealed relievant quality and quantity with reporting of results quarterly. The permit is scheduled to expire January 31, 1866.

(9) APPLICANT NAME: Peter Kiewit Sons' Company - Whitney Mine

MAILING ADDRESS:

Box 3049 Sheridan, WY 82801

FACILITY LOCATION

heridan, Wyoming Sheridan County

PERMIT NUMBER

Wy-0027812

W-0-0027812

The Peter Kiewit Sons' Company plans to construct an open pit coal mine approximately ten miles north of the Gity of Sheridan. Wyoming which will be known as the Whitney Mine. Process water' discharges at the mine consist of the following the first of the first

rovisions.

Periodic self-monitoring of effluent quality and quantity is required with reporting of results monthly. The
sermit is scheduled to expire January 31, 1986.

(10) APPLICANT NAME: MAILING ADDRESS:

Shell Oil Company — Buckskin Mine

FACILITY LOCATION:

P.O. Box 818 Gillette, WY 82716

Gillette, Wyoming Campbell County

PERMIT NUMBER

The Shell Oil Company is in the process of developing a large open-pit coal mine approximately ten miles north of the City of Gillette, Wyoming, which will be known as the Buckskin Mine. The mine will have five separate points of discharge. Three of the discharge points will consist of pit dewatering, coal handling and washdown water. The remining two points will consist of discharge of treated domestic sewage. The discharges are to Rawhide Creek and Spring Draw (Class IV waters).

The proposed permit requires that the discharges comply with effluent limitations which are considered by

MAILING ADDRESS:

FACILITY LOCATION

Hanna, Wyoming Carbon County FACILITY LOCATION:

PERMIT NUMBER

Wy-0022926

PERMIT NUMBER-

P.O. Box 530 Hanna, WY 82327

FACILITY LOCATION:

Hanna, Wyoming Carbon County Wy-0022918

MAILING ADDRESS: FACILITY LOCATION: P.O. Box 3005 (18) APPLICANT NAME: Gillette, WY 82716 MAILING ADDRESS: Gillette, Wyoming Campbell County

Wy-0003514

PERMIT NUMBER:

The Arast Coal Company operates a large open pit coal mine located approximately fifteen miles south of Gilletta, Myoming which is known as the Belle Ayr Mins. Mine pit water is treated in any of six sedimentation ponds which discharge to Caballo Creek (Class II W armowster Stream), Duck Near Creek (Class IV Water), or Draw No. 2 (Class IV Water). One of these ponds (discharge point 002) also receives wastewater from the coal processing plant. A seventh pond (discharge 009) collect a runoff from disturbed areas only, but since it is not designed to completely contain the 10 year-24 hour precipitation event it is considered a "process water"

designed to completely contain the 10 year-24 hour precipitation event it is considered a process water discharge.

The proposed permit requires that the discharges comply with effluent limitations which are considered by FACILITY LOCATION: the State of Wyoming to represent "best available treatment" effective immediately. However, the proposed permit also contains a "roopener" clause which requires the permit to be modified if more stringent limitations are developed at the federal level. The proposed permit calso requires control for runoff from disturbed areas.

Self-monitoring of effluent quality and quantity is required on a regular basis with reporting of results.

FACILITY LOCATION: monthly. The permit is scheduled to expire January 31, 1986.

(14) APPLICANT NAME:

PERMIT NUMBER:

Kemmerer Coal Company Elkol-Sorenson Mine PERMIT NUMBER:

MAILING ADDRESS: FACILITY LOCATION:

The Kemmerer Coal Company operates a large, open-pit coal mine which is located approximately three niles west of the Town of Kemmerer, and which is known as the Elkol-Sorenson Mine. Mine drainage from the outh mining area is treated in one settling pond and mine drainage from the IU-D pit is treated in another estiling pond. The discharges from both ponds enter the North Fork of Little Muddy Creek (Class III Water) via nunamed drainage.

\*\*ACILITY LOCATION\*\*

settling pood. The discharges from both ponds enter the North Fork of Little Moddy Creek (Class III Water) via an unanand drainage.

The proposed permit requires that the discharges comply with effluent limitations which are considered by the State of Wynning to represent "best available treatment" effective immediately. However, the proposed permit also contains a "roopener" clause which requires the permit to be modified if more stringent limitations are developed at the federal level. The proposed permit contains a provision exempting the permittee from effluent limitations when a precipitation event exceeding the 10 year-24 hour storm occurs. The proposed permit developed areas.

PERMIT NUMBER:

FACILITY LOCATION:

Discharging of delibent quality and quantity is required on a regular basis with reporting of results described to expire January 31, 1866.

(15) APPLICANT NAME:

MAILING ADDRESS: FACILITY LOCATION:

PERMIT NUMBER-

The Carbon County Coal Company operates an underground coal mine located approximately five miles FACILITY LOCATION: northeast of Hanna, Wyoning. Wastewaters consist of mine drainage, area runoff, and equipment washwater. These wastes are treated in two settling ponds, one of which discharge to 18g litch (Class IV Water) via an

the State of Wyoming to represent "best available treatment" effective immediately. However, the proposed permit also contains a "roppmer" clause which requires the permit to be modified if more stringent limitations are developed at the federal level. The proposed permit to be modified in some stringent limitations are developed at the federal level. The proposed permit contains a provision exempting the permittee from effluent limitations when a precipitation event exceeding the 10 year-24 hour storm occurs. The proposed permit also requires control of runoff from disturbed areas.

Self-monitoring of effluent quality and quantity is required on a regular basis with reporting of results quarterly. The permit is scheduled to expire January 31, 1986.

Arch Mineral Corporation—Seminos No. 2 Mine No. 2 Min

(16) APPLICANT NAME:

Amax Coal Company-Eagle Butte Mine

P.O. Box 530 Hanna, WY 82327 MAILING ADDRESS:

Gillette, Wyoming Campbell County

PERMIT NUMBER:

The Arch Mineral Corporation operates an open pit coal mine located approximately five miles northeast of the Town of Hanna, Wyoming which is known as the Seminoe No. 2 Mine. Process water discharges at the mine consist of the following:

The above discharges flow into Palmer Draw and Arch Draw (Class IV Waters).

The above discharges must meet effluent limitations which are considered by the State of Wyoming to represent: 'best variable treatment.' However, the permit also contains a "reopener clause" which requires the permit to be modified should more stringent limitations be developed at the federal level; contain the runoff resulting from a 10 year-24 hour precipitation event Because these pends will not normally discharge, they are not specifically identified in the permit that are covered by persistion and provisions.

Periodic self-monitoring of effluent quality and quantity is required with reporting of results quarterly. The permit is scheduled to expire January 31, 1986.

Arch Mineral Corporation—Semine No. 1 Mine

No. 1 Mine

(7) APPLICANT NAME: Deer Park Campground and Mobile Home Park Home

MAILING ADDRESS:

FACE TY LOCATION:

Deer Park Campground and Mobile

P.O. Box 568 Buffalo, Wyoming 82834

Buffalo, Wyoming Johnson County, Wyoming

The Arch Mineral Corporation operates a large open pit coal mine located approximately ten miles west of the Town of Hanna, Nyoming which is know as the Seminoe No. I Mine. There are no 'process water' discharge at this mine, therefore no discharge points are specifically identified in the permit.

Runoff from disturbed areas will be controlled by sedimentation ponds which are designed to completely contain the runoff resulting from a 10 year-24 hour precipitation event. Because these pends will not normally discharge, they are not specifically identified in the permit that are covered by persentian and maintenance provisions.

Self-monitoring of effluent quality and quantity is required whenever a discharge occurs with reporting of results within thirty days of the discharge. The permit is scheduled to expire January 31, 1986.

The Poer Park Campground and Mobile Home Park is the same facility as the old Buffalo KOA care designed to completely waterwater treatment consists of sanilogical package treatment plant followed by chlorination. The discharge when the permit the area of the plant followed by chlorination. The discharge water treatment consists of sanilogical package treatment plant followed by chlorination. The absolute treatment consists of sanilogical package treatment plant followed by chlorination. The absolute treatment consists of sanilogical package treatment plant followed by chlorination. The absolute treatment consists of sanilogical package treatment plant followed by chlorination. The discharge water treatment consists of sanilogical package treatment plant followed by chlorination. The discharge water treatment consists of sanilogical package treatment plant followed by chlorination. The discharge water treatment consists of sanilogical package treatment plant followed by chlorination. The discharge water treatment consists of sanilogical package treatment plant followed by chlorination. The discharge water treatment consists of sanilogical package treatment plant followed by chlorination.

FACILITY LOCATION:

Burke Ranch Unit, SE¼, Section 7, T37N, R78W, Natrona County, Wyoming Wy-0000736

Frontier, WY 83121 (20) APPLICANT NAME:

Kemmerer, Wyoming MAILING ADDRESS:

Wy-0000051 FACILITY LOCATION:

Carbon County Coal Co.-Carbon No. 1 Mine P.O. Box 830 Hanna, WY 82327 FACILITY LOCATION:

PERMIT NUMBER:

Atlantic Richfield

P.O. Box 5540 Denver, Colorado 80217

Continental Oil Company

907 Rancho Road Casper, Wyoming 82601 Meadow Creek Tensleep A Unit, N½, Section 11, T41N, R78W, Johnson County, Wyoming

North Tisdale Central Tank Bat-tery; NW4, Section9, T41N, R81W Johnson County, Wyoming

Wy-0027511

P.O. Box 2500 Casper, Wyoming 82601

Wy-0027588

Salt Crock South Unit No. 4, SW4, SE4, Section 12, T39N, R79W. Natrona County, Wyoming Wy-0028380

Well No. 1A, Tract 8, Salt Creek Unit South, NE%, NW%, Section 17, T39N, R78W, Natrona County, Wyoming

Wy-0028711

Well 7AX, Tract 26, Salt Creek Unit South, SE4, NW4, Section 18, T39N, R78W, Natrona County, Wyoming (continued on page 12)

### Western Roundup

#### Housing slump eases northern timber cuts

A depressed housing market, with new home construction frozen by high interest rates, has put the timber industry on the skids.

The timber harvest level on the northern national forest last year was the lowest since 1955, down 16 percent from 1979, and rumors of large layoffs are spreading through are milled.

from 1979, and rumors of large layoffs are spreading through area mills.

Over one billion board feet of saw-timber was sold last year in the U.S. Forest Service's Northern Region, which covers 15 national forests in esstern Washington, northern Idaho, Montana and the Dakotas. But only 835 million board feet were harvested, with the balance to be cut at some future date.

date.
The amount of uncut timber under contract in the region is steadily grow-ing and now st unds at over three billion board feet.

Critics of the agency's timber policies say the deferral process is one reason the Forest Service is losing money on its operations. Although more timber was sold last year than in 1979, the agency received roughly a third less receipts because of lower market prices. The timber sold and paid for this year will be resold by the timber companies presumably in a stronger market year —they generally have five years to cut and market timber after it is purch-

Of the timber that was cut last year, almost a third was in the Idaho panhandle. But mills there, nonetheless, are more abuze with rumors of worker layoffs than with sawtimber.
Louisiana-Pacific has already given

11,000 employees three weeks of un-paid vacation over the holidays, and most other mills predict layoffs next spring unless the interest rates come

FACILITY LOCATION

(21) APPLICANT NAME MAILING ADDRESS:

FACILITY LOCATION

PERMIT NUMBER

PERMIT NUMBER

FACILITY LOCATION:

(22) APPLICANT NAME

FACILITY LOCATION:

PERMIT NUMBER

PERMIT NUMBER

FACILITY LOCATION



WHEN THERE'S WORK, this log ger will cut 11,595 board feet of timber to build the average 17,000 square foot home.

#### Grounding copper

Practical results may be a long time coming, but a search is underway for ways to make copper mining in Arizona less threatening to the state's ground

water supply.

Arizona is the nation's sixth largest user of ground water, and overdrafts of more than two million acre-feet per year have caused extensive land subsi-

Well No.13-69, Tract 30, Salt Creek Unit South, NE%, NE%, Section 13, T39N, R79W, Natrona County,

P.O. Box 2100

Wy-0002399

Fork Field, NE%, Section 24, T44N, R82W, Johnson County, Wyomin Wy-0002402

Wy-0000809

Wy-0001139

### Potato kings feud over spud farm

In a corporate version of the family farm feud, two Pacific Northwest potato kings have gone to court over control of a giant spud farm in northcentral

The 30,000-acre farm has been co-operated by P.J. Taggares and J.R. Simplot, millionaire potato kings from Washington state and Idaho, respectively, and reportedly long-standing personal and business friends.

The two spud magnates gained fame in 1974 when they were fined and booted out of the New York Mercantile Exchange for defaulting on their futures contracts to deliver Maine

potatoes. The Simplot Corp. has a wide range of food industry investments, including a major share of the southeast-ern Idaho phosphate mining industry. The spud kings have been bickering

overmanagement decisions on the farm for some time, with farm employees getting conflicting instructions on such matters as when to plant and harvest.

The outcome of the dispute, to be sure, is no baked potato. The farm, which is leased from the Boeing Air-craft Co., which in turn leases the land from the state of Oregon, last year produced. duced 1.5 percent of the nation's total spud crop, and there's an option to double the acreage.

#### BLM saturated with desert claims

Proposals to develop public desert land in southern Idaho will no longer be accepted until the Bureau of Land Management can wade through an ex-isting backlog of claims.

Under the Desert Land Act of 1877, individuals may be granted up to 320 acres of public land if they can turn the acreage into irrigated farmland. While the agency charges a mere \$1.25 per acre processing fee, BLM officials say it can easily cost \$100,000 to make a 320 acre parcel bloom.

The agency has received some 1,500 applications to date to transfer almost

dence, or sinking, and fears of water

supply shortages.

The state's copper industry, produc-ing one-half of the country's output, has long been tagged as a major villain in the ground water crisis. It takes 700 gallons of water to extract only 11 pounds of metal from a ton of ore; con-taminants leaching back into water

sources affect water quality.

The new study, funded by the U.S.
Bureau of Mines, will scrutinize mining in the Globe-Miami area, a 500half a million acres of southern Idaho desert. The BLM, however, says only a fifth of that acreage is economically developable and that it will take about five years to sort out the existing claims for that acreage

The state of Idaho recently lost a legal action challenging the BLM's final authority to determine what lands to develop. The state has also pushed for speedier consideration of applications both under the Desert Act and the related Carey Act, which gives states a limited role in helping individuals obtain federal land tain federal land.

square-mile mining district east of Phoenix. The goal is to provide data for designing new operation plans that onserve water quantity and quality.
Outgoing Secretary of Interior Ceel

Andrus has repeatedly stressed the irony of building new water projects, such as the multi-billion dollar Central Arizona Project, if existing water sources are being misused. The Carter Administration made continued federal support for that project contingent on better management techniques

The discharges must meet Wyoming's Produced Water Criteria effective ammediately. Chapter VII of the Wyoming Water Quality Rules and Regulations infers that as long as the Produced Water Criteria is met, the rater is suitable for beneficial use. There is no evidence to indicate that limitations more stringent than the roduced Water Criteria are needed to meet Wyoming's Water Quality Standards. The Department will ontinue to evaluate the discharges and, if necessary, will modify the permits if evidence indicates that more

nonitoring is required for all parameters with the exception of oil and gr rly. The proposed expiration date for the permit is December 31, 198 (23) APPLICANT NAME:

FACILITY LOCATION

FACILITY LOCATION

Wy-0003484

PACILITY LOCATION

(24) APPLICANT NAME

Union Oil Company of California

MAILING ADDRESS

FACILITY LOCATION

PERMIT NUMBER:

### Western Roundup

#### Drive-up windows fuel Boise smog

To idle or not to idle. That is the question facing the Boise City Council as the officials grope with ways to regulate drive-up service windows to reduce air pollution.

The Idaho capital is plagued by carbon monoxide, especially during the winter, and was given until 1987 to meet federal clean air standards by the Environmental Protection Agency. The city council has been looking at several approaches to cutting pollution, and last May voted for a four-month moratorium on new drive-ups at fastfood restaurants.

But owners of businesses objected.

But owners of businesses objected.
And a subsequent study shows that
shutting off and restarting engines may
cause more fumes. The council voted last month to rescind the moratorium and adopt new regulations which the Idaho Statesman called "a token not likely to have much effect on pollution."

The new ordinance requires all

businesses planning to open new drive-ups to obtain a special permit and show that the facility will minimize pollution. Suggested measures include building more than one window to speed service, and asking customers to park and do business inside or by mail, in the case of banks.

The council was pressed into looking at drive-ups by a county planning re-



WOOD SMOKE and other large suspended particles such as this contribute to haze over Lander, Wyo., and may be causing lung ailments in school age children.

### Wood smoke linked to lung ills

A Montana air pollution study has linked the inhalable particulates found in wood smoke with decreased lung functions among elementary school age

children.

In one of the country's first such inwestigations, the tests showed that children in Anaconda, Billings, Butte and Missoula consistently scored lower on lung function tests that children in Great Falls, where the air is cleaner.

Inhalable particulates, as opposed to larger, non-respirable pollutants, constrict the bronchial chords to reduce the flow of air in and out of the lungs, the recent study showed. Wood smoke, according to other Montana tests, creates some two-thirds of the wintertime inhalable particulates.

The Environmental Protection Agency is considering adopting sepa-rate standards for inhalables, which race currently lumped together with non-respirable particulates for a com-bined suspended particulate count. A separate standard, the Missoulian reports, could mean restrictions on wood burning.

But, state health officials note, the

But, state health officials note, the cost of such regulation would be high—special air monitoring equipment alone would cost \$20,000 each for an indeterminable number of machines.

The inhalable particle tests were conducted by Missoula pediatrician Kit Johnson for the state Montana Air Pollution Study, which is working on a communication that the state of the state comprehensive state wide study.

tions have been imposed on these facilities except for oil and grease (10mg-l) and pH (6.5-8.5). This is due to the extreme aridness of the area which allows for beneficial use of the water for agricultural purposes. There is no evidence to indicate that limitations more stringent than the Produced Water Circleria are needed to meet. Wyoming's Water Quality Standards. The Department will continue to evaluate the discharges and, if necessary, will modify the permits if evidence indicates that more stringent limitations are needed.

Seini-sanual self-monitoring is required for all parameters with the exception of oil and grease, which must be monitored quarterly. The proposed expiration date for the permits is September 30, 1981 for the Penix and Selsion facilities and December 31, 1986 for the Union facility.

port that estimated 10 percent of the carbon monoxide emissions in downtown Boise were caused by cars idling at downtown drive-ups. Rod Ledbetter,

at downtown drive-ups. Roo Leadester, owner of two Boise Burger Kings and head of a group opposed to a drive-up window ban, says the 10 percent figure is too high and that traffic signals caused more emissions. The new regu-

lations, says Ledbetter, are "liveable

The EPA is conducting another study in Ann Arbor, Mich., to be finished this

spring that should help clarify the

sary, will modify the permits if evidence indicates that more stringent limitations are nee mi-annual self-monitoring is required for all parameters with the exception of oil and grease, which r mitored quarterly. The proposed expiration date for the permits is December 31, 1985.

(26) APPLICANT NAME:

Texaco, Inc. FACILITY LOCATION

nate a completely contained natural depression.

Existing system appears capable of handling, without discharge, the springs and the runoff free thour precipitation event. The proposed permit requires that the existing control system be produced and maintained through the life of the permit which will extend to February 28, 1986.

#### Wy-0002321 STATE-EPA TENTATIVE DETERMINATIONS

### Battery No. 3, Dugout Creek Shannon Sand Unit, SE'4, Section 34, T43N, R80W, Johnson County, Wyoming

(25) APPLICANT NAME:

FACILITY LOCATION FACILITY LOCATION

PERMIT NUMBER:

PERMIT NUMBER: FACILITY LOCATION

Cellar's "A-B" Battery, Cellar's Ranch Field SE'4, Section 14, 32W, Johnson County, Wyoming

Brannon Harris Battery, Cellar's Ranch Field NW%, Section 24, T44N, R82W, Johnson County, Wyoming

P.O. Box 2100 Denver, Colorado 80201

State"G"Battery, Cellar's Ranch Field SW4, Section 13, T44N 82W, Johnson County, Wyoming

Wv-0002381

Johnson County, Wyoming. The produced the use of heater treaters and skim ponds. The steel and Indian Draw (Class IV Water).

Additional Information may be obtained upon request by calling the State grants (10 mg-1) and pH (6.5-8.5). This is due to the of the water for grincultural purposes. There is no the Produced Water Criteria are needed to meet will continue to evaluate the discharges and will continue to evaluate the discharge and will continue to evaluate the discharge and will continue to evaluate the discharge and will be added to the same transfer of the state of the same transfer of the water of

IDLE ELDERS

IDLE ELDERS

Finding meaningful work for retired workers can have pleasant results for more than the job winner. The Connecticut Environmental Protection Agency, for example, has used federal funds to hire 19 workers to help manage water quality, air compliance, solid waste, open space acquisition and noise control programs. Called the Senior Environmental Employment program, it is being coordinated by the HEW, Office of Human Development Services, Administration on Aging, 200 Independence Ave., S.W., Washington, D.C. 20201. A similar program is being promoted by the Wyomiag Farmers Union, wherein employers engaged in energy conservation or alternative resources development can hire elderly employees, with a 50 percent matching grant for alaries during a training period. Contact Fail Nottage, Director, Green Thumb, Inc., 1902 Thomes, Cheyenne, Wyo. 82001.

WILD STUDIES

The Bureau of Land Management's propesal for studying Wilderness Study Areas was published in the Dec. 22 Federal Register. The guidelines cover data collection, analysis, evaluation, public inovement and decision-making. Public comment en the proposed guidelines will be accepted through February.

RURAL RABBLE ROUSERS

#### Bulletin Board

#### CHLORINATED WATER

CHLORINATED WATER

"Water? Never touch the stuff. Fish fornicate in it." W.C. Fields once said. With this latest report from the Council on Environmental Quality, he would have had even more ammunition against the substance. The CEQ has found new vidence of a possible link between chlorinated drinking water and certain kinds of cancer. The preliminary report shows connections between rectal, colon and bladder cancer and chlorinated drinking water. Copies of the report, "Drinking Water and Cancer. Review of Recur Findings and Assessment of Risks," will be available at the end of January from the National Information Service, U.S. Department of Commerce, Springfield, Va., 22151.

#### GROWING PAINS

CROWING PAINS

Land use and ownership changes in rural areas are the focus of a new film sponsored by the Conservation Foundation. For more information on obtaining "Growing Pains: Rural America in the 1980s," contact CF, 1717 Massechusetts Ave., NW., Washington, DC. 20036.



#### WASTE TO WANT

WASTE TO WANT

Converting solid waste into fuel for power plants is the subject of a Feb. 10-13 conference in Nashville, Tenn. Sponsored by the Department of Energy and the Environmental Protection Agency, it's being organized by Argonne Laboratory and for \$135 promises that "community officials, regulators, consultants and citizens can meet with the manufacturers of waste-to-energy prepared fuel systems to discuss the application of this option." Contact Miriam Holden, Argonne National Laboratory, 9700 South Cass Ave., Argonne, Ill. 60439.

#### SMALL FARM AID

SMALL FARM AID

Though it may be only a drop in the bucket to the beleaguered small farmer, the federal government has a network of agricultural research and extension programs to aid the little guy. From training programs in Beltsville, Md., the U.S.Department of Agriculture spent almost \$80 million last year to help small farmers. For an update on the federal programs, contact the General Accounting Office (Document Handling and Information Services Facility, P.O. Box 6015, Gaithersburg, Md. 20760) and ask for the 14-page, Oct. 17 letter CED-81-18.

THE TOXIC VOID

The General Accounting Office has taken the Environmental Protection Agency to task for its sloppy handling of chemicals regulation. With 2 million chemicals row in circulation, and over 10,000 firms turning out 500 billion pounds and 1,000 new chemicals every year, regulation is an overwhelming task. For a copy of the report, contact the GAO (see above) and ask for "EPA is slow to Carry out its Responsibility to Control Harmful Chemicals," CED-81-1, Oct. 28.

#### DISASTEROLOGY

For what must be the most complete survey of literature on disasters and disaster management, ontact Springer-Verlag New York Inc., 175 Fifth Ave., New York, NY, 10010. They have books and journals, at only

HELP NEEDED

The Solar Energy Research Institute in Golden, Colo., is looking for summer interns. For 10 weeks, students can work with SERI staff on the "broad problems associated with the practical widespread utilization of solar energy." Application deadline is Feb. 1. Contact the Academic and University Program Branch, 1617 Cole Blyd., Golden, Colo. 80401-3033 23, 1235. 80401; (303) 231-1235

#### LET THERE BE

...lighting systems that use natural sources to save energy. That's the theme of a Jan. 23-24 seminar in Santa Fe sponsored by the Oklahoma State University Architectural Extension. In addition to touring the local sites, attendees for \$175 will be treated to sites, attendees for \$1/5 will be treated to instructions from five lighting architects, with topics unsurprisingly covering lamps and luminaries, mirrors, computer analysis and earth sheltered buildings. Contact Jody Proppe, Oklahoma U., 120 Architecture Bldg., Stillwater, Okla. 74075; (504) 624-6266.

OIL SHALE

In what could be the first of many such meetings, the Colorado Department of Natural Resource's Joint Review Process is having two public hearings on proposed oil shale projects — the Rio Blanco and Multi Mineral Corporation. Both meetings are scheduled for Jan. 20, starting 10:30 a.m. in the Grand Mees Room, Holiday Inn, 755 Horizon Dr., Grand Junction, Colo.

# RURAL RABBLE ROUSERS The North Country Institute in Vermont is effering two, four-day training sessions in January and June for persons organizing rural communities. For \$200, attendees will be treated to workshops on economic development, direct action, grassroots fundraising, co-ops, union organizing — all in the rural perspective. Contact Meg Campbell, NCI, P.O. Box 8, South Newbury, Vt. 05066; (802) 866-5603. Juggie...

ntinued from page 2)



stormy today but no snow. Headed due west into the weather but so far no rain. The red cliffs in this part of the Wyoming Range gleam brightly in the morn-ing sun next to the lush green grass

ing sun next to the lush green grass that is so fresh up here."

Alain, the Frenchman who is the head of this motley crew, is the observer today. His accent, and the stream of French profanity that comes over the radio all day when he is in the recorder is good for a few laughs and makes the day to facts.

is good for a few laughs and makes the day go faster.

The shots begin. At the back they are muted and inoffensive. We do twenty as quickly as possible. After twenty we get a dollar for every shot we do. Seventy shots a day is not uncommon. Out near Big Piney we set the world record for a portable crew with 112 shots.

One line started in Bondurant, Wvo went over the Wyoming Range, the Salt liver Range and west into Idaho. In londurant we crossed the highway, and Rory, one of the more colorful back and Rory, one of the more colorful back rew members, ran up to the bar to get ome beer. We sat in the sun drinking while the observer kept calling on the adio wondering why no loads were com-ng forward. An old rancher rode by on its horse and stopped to talk with us. Ie said the fishing was great in the Hoback River. I asked him what he would think of oil rigs in his valley drilling for oil. "Hell, let'em come," he said. "Can't do no harm 'round here." What abou. that great fishing in the Hoback, I asked. "What about it?" he demanded.

We travel in beelines. Got to follow that line. In this country that can be pretty damn tough. Doesn't matter what's in the way — thickets, swamps, creeks, cliffs, scree fields, whatever we go straight through it. No matter that ten yards to the side there is an that ten yards to the side there is an easier way — the oil companies pay for straight lines. I'm told Teddy Roosevelt used to take beeline hikes in North Dakota and I think about him as I fight

Dakota and I think about him as I fight my way through some stickers with 40 pounds of cable around my neck.

John Boy is the head of back crew today. He very rarely eats. Everyone else carries small packs full of sweaters and rain gear, books, cameras, journals and food. John Boy carries a small fanny pack full of beer. He is quiet, strong as an ox and nobedy ever questions him. He is the only one among us who does this kind of work year-round. Delbert is from California; he went to Santa Barbara College and served in Santa Barbara College and served in the Navy. He is constantly going on about Finnegan's Wake or metaphysics or some such thing. It's hard to have a normal conversation with him. Chris is one of the five women on the crew and a delight to have around. She has a master's in forestry from the University of Arizona and has lived in the Grand Canyon for a long time. Billy is a Latin major from Col-umbia University and the son of a well-known American historian. He doesn't say much and reads Virgil if we aren't moving.

I write in my journal: "Sitting on a grassy hillock in the Hoback Range

west of the Little Greys River, getting ready to drop down to the water. Shady cool forests with little underbrush, just long thick grasses perfect for a quick snooze. I have learned to sleep anywhere on this job. No mat ter if we are on a steep hill or in the rocks. If we have half an hour, I can

A portable crew works with two helicopters. The choppers take the crew in and out of the field, move loads forward, bring dynamite to the primates, and move the recorder as the line moves. All that work used to be done by mule teams in this country. In South America, Africa and Asia where CGG has done a lot of work, they have found it cheaper to hire natives to move the loade

The chopper pilots are very good. They fly in the mountains with gusty winds and unstable air. They have to set down in tight spots and pick up loads in forests where they can hardly see. They are in the air for as much as ten hours a day. It takes concentration and stamin

Most of the pilots are military veterans. John, our best pilot, is a Korean War vet. He is unflappable. I've seen him do pickups in forest clearings with only a foot to spare from the ends of the blades to the trees, and in creek beds where the blades whirl only inches off the banks. One day some cables fell off John's chopper into the top of a pine tree. John bent the tree over with the bubble of the chopper and hooked the cables with the skid. Most pilots have crash and emergency landing stories. Not John. He says he has never been

A five-pound stick of dynamite exploding three feet off the ground does not leave many visible scars. In grassy

areas, the blast will blow clean the earth around the shot in a six foot circle: In sagebrush it will blow the leaves off the plants, sagebrush is hardy stuff. In a pine forest, with needles and twigs covering the forest floor, it is very dif-ficult to see where the explosion took place. In rocky terrain the explosion is almost unnoticeable. Of course, at higher elevations even minor damage takes a long time to heal.

We move. Picking up jugs is mind-less, easy and enjoyable. The movements are mechanical and repeat themselves all day. Some days we hurry so we can get caught up and sit down. Other days we just saunter along enjoying the motion, picking up jugs and

wildflowers.
A cable count shows some missing cables so I head back to see if we overlooked some. Back crew has picked up all the markers on the line so I have to follow the shots. I walk for a few miles and then get lost in a forest. I retrace my steps until I get back on the line. It is quiet and peaceful back here and I stop and rest and think about what I'm

If seismo results weren't used for anything, if this was the final product, it wouldn't matter much. But it isn't. The results are auctioned off to oil companies that come in with drilling rigs if the surveys look favorable. At 8 o'clock and 76 shots later, we call

it a day. On a rocky outcropping at 9,500 feet with the whole wild world below me and the rising moon in a purple sky above me, I pull myself up into the hovering chopper and we bank away for home

Conrad Gilbert is a free presently attending the University of Montana. Research for this article was paid for by the HCN Research Fund.

### Opinion



## Is this an Interior Secretary, or Watt?

"What is the real motive of the extreme environmentalists, who appear determined to accomplish their objectives at whatever cost to society: Is it to simply protect the environment? Is it to delay and deny energy development? Is it to weaken America?"

— speech at the annual meeting of the National Water Resources Association in Boise, Idaho, Oct. 27, 1977

"Nuclear power is the only environmentally and politically reliable source of abundant, competitively priced power for the continuous maintenance and betterment of our civilization."

- speech distributed by MSLF in 1977

I am a part of the Sagebrush Rebellion. The Sagebrush Rebellion has exploded in I am a part of the Sagebrush resettion. The Sagebrush resettion has exploded in the Western states in the last three of four years because of the oppressive actions (of the Bureau of Land Management). If we properly manage those lands under the laws Congress has enacted, we need not bring about massive land transfers to calm the rebellious nature of people like me and other westerners. Some of the lands do need to be transferred."

- press conference, Denver Hilton, Dec. 24, 1980

"As a white man, in 10 years...I'm going to be very hesitant to allow a black doctor to operate on me because I'll always have the feeling that he may have been carried by the quota system."

- quoted in the Straight Creek Journal, Oct. 6, 1977

"The emphasis of all these (public interest) groups is to work toward judicial decisions restricting economic growth, blocking freedom of individual location, redistributing wealth from the productive to the unproductive, hindering national defense, and substituting government for individual decision making."

- speech distributed by MSLF in 1977

"The longterm threat to the business person is that, because of the rapidly escalating costs of energy, some political leader from the Northeast will find it politically expedient to blame the high costs of energy to his region on the failure of the private sector to properly develop the abundant energy resources of the West. Because of the continued political clout of the East Coast and the industrial states, a political leader may be able to persuade Congress to nationalize the energy industries of the nation and execute when the continued Westings.

a point an easier may be about the persuase congress to instituting the energy industries of the nation and create a crash program to develop Wyoming and Western coal, uranium and oil shale.

"If that were to happen, our Western ecology, way of life and economic freedom would be lost. The cause would not have been the failure of private enterprise, but rather the no-growth advocates masquerading in the courts as environmentalists and a government that encumbered the private sector beyond its ability to cope."

- speech at the University of Wyoming, Oct. 28, 1980

Kemmerer Coal Co.

A selection of contributors of over \$500 to the Mountain States Legal Foundation, dated July 15, 1978.

Albuquerque Gravel Products Co. Asarco, Inc. Associated Contractors of Colorado Boomtown, Inc. Burlington Northern Burlington Northern Bunker Hill Corp. Chevron U.S.A., Inc. Climax Molybdenum Consolidated Coal Co. Consolidated Coal Co.

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James G. Watt

"I fear that our states may be ravaged as a result of the actions ronmentalists, the greatest threat to the ecology of the West."



"A HIRED GUN"

To the formidable list of anti-environment lawsuits filed by Moun-tain States Legal Foundation under James Watt you can add the so-called Rio Puero case in New Mexico. Its im-mediate and long range purpose is to hinder if not kill the capability of the Bureau of Land Management to im-plement initially 212, now 145, en-ginomental impact statements manplement initially 212, now 145, environmental impact statements mandated by federal court order (a consent
decree). That came in 1975 in the celebrated NRDC v. Morton case.

MSLF's Attorney Lance P. Wells
wrote at length about that 1979 lawsuit
to one Bob Jones, head of the New Mexico Public Lands Council.

The letter said, "It may be important

for you to know that it appears as though each and every environmental impact statement that proposes to do any significant economic harm to the communities and state where they are done will most likely be litigated and challenged... Attorneys are beginning to recognize that this will be a very profitable field of litigation for them during the next several years."

The letter added that court challenges were being prepared in Utah,

The letter added that court challenges were being prepared in Utah, Arizona and Colorado, and had already been "commenced in California." Further lawsuits were being prepared "on the East Socorro and East Roswell" EISs in New Mexico.

And this man Watt is now seen by Senator Simpson as not being "at the other end of the spectrum" from those who have a regard for the ranges under BLM? Depends on where you yourself stand, I suppose. For one, I'll side with a former high official of an Interior Department agency (not BLM) who wrote me recently that from his personal experience with Watt he had to categorize him as no more than "a hired gun." He also said that the Sagebrush Rascals are small potatoes to what we'll see if the man is confirmed in office.

William Voigt, Jr. Blackshear, GA.

16-High Country News - Jan. 9, 1981



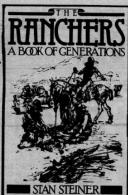
by Stan Steiner, Alfred A. Knopf, New York, 1980. \$13.95, hard cover, 241 pages. Drawings.

Review by Peter Wild

For some years now, Stan Steiner has bounced over the back roads of the Rocky Mountain West. He has found, or at least thinks he has found, what he or at least thinks he has round, what was seeking — wisdom from the descendants of pioneer ranch families still

scendants of pioneer ranch families still making a go of it on the old homesteads.

These folks — like the Spragues, a Montana couple living thirty miles from town in a log house without telephone or electricity — are oracles to Steiner. He approached them, tape recorder in hand, to ask: "how did you survive and what if enthing do you survive, and what, if anything, do you think the country can learn from the way you have survived?"



However, the book contains little in the way of survival tips. The isolated ranchers proved themselves most oblig-ing, even garrulous, before Steiner's microphone, but few of them want to talk about how they keep the rabbits out of the turnip patch or how to strike a match with frozen fingers. Instead, they offer memories of the old days and salty opinions about what has gone

wrong with the world.

They can be informative, iconoclastic, even hilarious. One informant recalls an old cure for diptheria. The sick person urinated in a cup of green car-rots and hung the cup on the chimney for eight days. William Lumpkin tells about his mother's arrival in the West about his mother's arrival in the west.
As a bride-to-be from a sedate Philadelphia family, she stepped off the train in
Clayton, New Mexico: "The cowboys
from my father's ranch were there, lined up along the tracks. They had gone two weeks without bathing. Or shaving. Or anything. And they were shooting off their guns and raising the ruckus for the old man when he brings his bride out west.

Wally McRae gives a sharp slap to the romantic image of pioneers. From his Rocker Six spread in Montana, McRae says that people today don't realize "that some old guy, with a gimpy leg, rode around on a horse when it was twenty-two below zero, for all of his lifetime, just to build that ranch." Somewhat in contrast, HCN associate editor Joan Nice is also in the book explaining her commitment to small-town

living in Lander, Wyoming.

Anger breaks through in many of these interviews, anger over coal com-panies and high taxes, over too many

city families moving in with their urban ways. Snorting at the forest of real estate signs in the Bitterroot Valley south of Missoula, Rex Bundy rails: "The trouble with most of these young people is they don't know how to work."

Dutifully, too dutifully, Easterner Steiner writes it all down. The West indeed is changing. But what many of these older rural people see as moral problems stem instead from the ills of overpopulation and the invasions of technology. Steiner records without probing beyond the surface of frustra-

Most ranchers, as Stan Steiner must know by now, love to talk. What he hasn't learned is that they can be as full of bravura and nonsense as any of the rest of us — perhaps a bit more. One New Mexican rears up to boast that all ranchers are conservationists. She maintains "that no one ever over-grazes." That's a big wad of Bazooka gum, but Steiner doesn't even bother to

look out the window. He does include "Sisters of Ruth," a valuable section on women in the old-time West. However, for much of the way the fun of the book is in watching how easily the crusty ranchers hood-wink the unquestioning city-slicker.

A Policy Approach to Political Representation

Helen Ingram, et al, Resources for the Future, The Johns Hopkins University Press, Baltimore, 1980,

#### Review by Michael Moss

If the Reagan cards can be read at face value, that lowly body of public servants, the state legislature, is due for a big boost of new federalism, spiced by a rousing chorus of "States' Rights."

For social reformers, that is disturbing news. With the exception of a few exemplars like California, western state legislatures hold reputations for consistently sacrificing environmental quality to economic development. State legislatures have repeatedly failed to set decisivally in our policy area offers act decisively in one policy area after another — social welfare, housing, education, civil rights, the environment. when they have moved, it's been more often a response to federal initiatives, intended to forestall intervention or collect federal aid, then due to any conect tederal and, than due to any homegrown inspiration. State legis-lators have reputations that range from low intelligence to deliberate prejudice in favor of resource developers. Collec-tively, their fame is typified by 's state house, known as the tool three C's: Copper, Cattle, and

All this is confirmed by a new study by Resources for the Future, a Washington, D.C.-based research group with a penchant for scrutinizing government institutions and running public opinion polls. The cause is more institutional than individual, the authors conclude, and there's hope that a good dose of public participation can re-

good dose of public participation can re-tool the system.

There's a wide literary void on the long-neglected state legislature, and A Policy Approach to Political Representation is filled with fascinat-ing tidbits: Sixty percent of Colorado's state senators have served more than four wars compared to 14 percent for four years, compared to 14 percent for Arizona; Colorado legislators get \$12,000 per year, Arizonans half that, and Utah and New Mexico legislators nothing; the typical senator is male, middle-aged, pursuing a business career well-educated and financially well-off.

My major disappointment in the study is embodied in its subtitle, "Les-sons from the Four Corner States" the project only covers Arizona, Colorado, New Mexico and Utah, and one is

orado, New Mexico and Utah, and one is eleft wishing for similar statistics on the rest of the region's legislatures.

But the heart of the book can be generally applied throughout the region. Its major find, based on comparing and contrasting the attitudes of voters and state legislators on a wide range of environmental and institutional questions is this That the altitudes. tions, is this: That the relatively pro environment sentiments of the region's voters are shared by most of the state representatives polled. Furthermore, most legislators say they are committed to accurately reflecting the opinion of

To be sure, readers are advised to take this conclusion with several grains of salt. There is ample evidence in legisof salt. There is ample evidence in legislative history that the motivations of some legislators are questionable. But some of the institution's failing lies in the system, the authors say — an institutional make-up that comes from Thomas Jefferson's vision of the citizen legislator, who is kept in check by having to live and work like everyone else, and only makes laws as a civic duty on the side.

That Jeffersonian ideal, the authors report, has created the following situa-

n: "In sum, the Four Corners state legislatures are amateur institutions in which sessions are short and intense, and legislators serve with minimal pay. Turnover is high. It is necessary each session to initiate numbers of freshmen. Staff resources are scarce. The op-portunity for rank and file members to influence legislation is limited by leadership control of committee assignments and legislative agenda. Leadership tends to be personal rather than

Even well-intentioned senators, the study found, "have se-verely restricted resources with which to discern what is good public policy and what voters want." In other words, legis-lators don't vote right often because

they don't know what is right.

To amend the situation, the authors



Raleigh



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do not recommend institutional reforms, noting that larger salaries, in-creased staff and other "hallmarks of professionalism" may simply convert the beast into the image of Congress, with public policy-making largely un-reformed. Rather, the answer lies in greater voter participation — letting your legislator know who you are and what you think

Results may be slow in coming. But if ne capital steps, from Helena to Santa e, lead indeed to refurbished halls of power, decision-making at the state level will be crucial and deserving of attention



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