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The Washington Merry-Go-Round

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New Shale Technology Promising

By Jack Anderson

With unconcealed exc. ement, the Federal Energy Office to \$1.18 a barrel. is investigating a revolutionary technique for extracting oil by an independent Stanford refrom shale at a cheap \$1.18 a search group, which studied Oc-

Energy director William Sithe scale of the Manhattan Pro- tween \$2 and \$3 a barrel. ject which developed the atomic bomb, to bleed the mountains of sists essentially of blasting a Colorado, Utah and Wyoming of chamber inside the oil-bearing critically needed oil.

rels of oil, nearly three times serves, are locked in the shale At the current rate of consump- formation, where it is pumped tion, this would be enough to away. supply U.S. oil needs for 140 The years.

The problem is separating the oil from the rock. Previous proposals called for extensive strip mining, which would devastate the Western scenery. The shale would be heated until the oil dripped out. But the heat would also expand the rock, which his staff. Simon's experts then would have to be discarded in questioned huge, unsightly piles. New mountains of discarded shale would be created.

But now Occidental Petro-

dumps. Even more promising, could relieve the U.S. oil shortthe Occidental process would age within three years. reduce the cost from around \$5

The cost estimates were made barrel without massive ecologi-cal damage. cidental's pilot project in Colo-rado. The final cost of delivering the oil to suppliers, after all mon is talking privately of an the pumping and piping has all-out government effort, on been figured in, would run be-

The Occidental method conrock formation. Natural gas is An estimated 1.8 trillion bar- then injected into the chamber

and fired. This produces inthe world's present proven re- tense temperatures, which separates the oil from the rock. The rock formations of the Rockies, oil seeps to the bottom of the

The expanding shale gradually fills up the chamber, and the mountain is left virtually undisturbed except for the mining shaft required to gain entrance. Occidental's enterprising chairman, Dr. Armand Hammer, showed a movie of the new process the other day to Simon and Occidental the technicians thoroughly. The energy chief came away

from the briefing highly im-

Nixon's Sound System--Despite President Nixon's extreme sensitivity over the Watergate tapes, he now wants to install a new recording system in the White House.

It won't be used, however, to make secret tapes of the conversations in the Oval Office, a la Watergate, but to record the crooners and comedians who perform at official White House functions in the East Room.

The President's communica tions experts want a sound system so sophisticated it may never be built.

The specifications, sent confidentially to potential bidders call for "two mixing consoles" capable of taking the sounds from 16 different microphones and then mixing them onto a two-track stereo tape.

Although the system is supposed to be used in the White House, which is buffeted only by the President's tirades and has been cooled down only to 68 degrees, the two identical consoles must survive "a shock of 5 G's" and temperatures 80 degrees below zero.

Unlike Rose Mary Woods' pressed. He is now preparing to tape recorder, the new sound leum has developed a way to ex-tract the oil inside the moun-tains, without the massive strip mining and monstrous shale say the Occidental engineers, ogy can provide.

We consulted half a dozen sound engineers and technicians, who estimated the two fancy consoles will cost the taxpayers more than \$200.000.

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One expert described the proposed sound system as "space-age technology." Another called it "a highly professional system requiring extremely sophistiated engineering."

Some of the engineers we consulted made comments that might interest the Watergate prosecutors. They cited the highly detailed specifications evidence that 'the White House communications experts are far too professional to produce tape recordings marred with erasures and excessive background noises.

Cdr. Tom Coats of the White House Communications Agency, who prepared the solicitation offer, explained he was trying to obtain "the best and most economical system" available. Hav-ing given us his "position on this," the commander declared he could not "talk about it anymore" and refused to answer further questions.

Footnote: Until the Nixon takeover, the Marine Corps has recorded the performances at the White House. The master tapes were filed in the Marine Band library where they have remained, virtually untouched, for lo these many years.

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