

# BOULDER CITY

And News of The Hoover Dam Project

## Ingenious Device to Control 'Mix' Of Concrete for Big Dam; Job Will Be 'Driest' in Engineering History

By DON BLACK  
Among the many ingenious and often astonishing advances which science is recording on the Hoover Dam project, one of the most important to American building industries of the future is an electrical gauge for controlling the consistency of concrete mixers.

As explained by Assistant Construction Engineer Ralph Lowry, this instrument measures electrical resistance of the revolving mass in mixing batches. Due to the commonly understood principles of friction, this resistance varies in direct proportion to the water content. It is quickly apparent even to the layman that the more of this lubricating fluid injected into mixing drums, the less drag of the mass on cylinder walls. Thus it is possible with the new gauge to maintain a predetermined consistency of mix by merely following the moving electrical graph.

Although all concrete "aggregates" or materials, including water, are weighed and measured automatically, the device acts not only as a reliable check on this process but permits continuous operation of the mixers where otherwise they could be but intermittently employed, with consequent losses in plant efficiency.

Calibrated to what engineers know as the "slump" standard, this gauge makes possible a permanent and complete record of every concrete batch that will go into the dam structure.

The scientific determination of the "slump" to concrete is made by universal adoption of an arbitrary cone mould. When removed, with the material still in plastic form, the basal spread of this mass becomes fixed, reveals whether or not the mixture is too wet. By adjusting the quantity of water used and making additional casts, a mixture that slumps least and consequently is most efficient may be achieved.

That is why engineers say this will be the "driest" dam.  
"Because wet concrete flows freely into place, some unscrupulous contractors do not hesitate to dilute mixes far beyond efficiency. The simplified handling cuts down production costs," says Lowry, who adds that both the government and Six Companies, Inc., are taking every precaution to guard against any possibility of such charges here.

According to other sources of information, the drier the mix the less in final analysis will be total cost of this world's greatest concrete block. This for the reason that any appreciable setting of the monster mass would have to be originally anticipated in what engineers call the basal curve. That is, the dam's presently designed base of 650-foot thickness would have to be increased by more than 65 feet, if, for instance, a ten per cent slump was expected. This in order to provide for the same stress.

Again, although the engineers themselves do not know so much about this wet mix, undoubtedly would produce greater chemical heat in the drying out or dehydration process, a factor that will be combatted with every resource at the command of modern science to prevent expansion, contraction, and consequent possible displacement and cracks in the structure.

**DISEASE UNDER CONTROL**  
LOS ANGELES, April 30. (AP)—A minor outbreak of foot and mouth disease in the hills between Buena park and Fullerton was under control tonight.

**7 BOULDERITES TO BUILD SOON**  
The final report for the month shows that permits for the building of residences were granted to Ernest C. Manderson, Frank M. McDonald, Capper L. Hannon, Bedford P. Hatcher, Thomas M. Godbey, Homer B. Ford and Everett E. Sharp, at Boulder City.

Additional business permits were granted to Olaf G. Olson, of Sandy, Utah, for insurance, and Fred J. Berthoin, San Diego, for draperies and kindred lines.

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the opening of an up to date Optical Office, to serve the people of Boulder City with professional care. Over 25 years specializing in fitting eye glasses. No patient allowed to leave my office with the least feeling of dissatisfaction. You must be pleased.

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## BOULDER CITY CHURCHES

**COMMUNITY CHURCH**  
Please note the change in time for the morning services.

8:30—The Sunday school gathers in the school house. One hour earlier than formerly.

9:45—Morning worship.

Mrs. Jackson will be at the piano Marple will bring a solo selection, "The Life I Now Live in the Flesh" is the theme for the morning sermon.

7:45—Evening "Happy Hour" service.

In the Anderson mess hall. This will be a Mother's Day service.

A fifteen minute "singfest" led by Harry Marple. Come and pick out your favorite hymn.

Mrs. R. K. Ziemer will be with us with a soprano solo.

The Boulder City male quartet will make their first appearance at this evening's program.

They will sing two numbers. The quartet is composed of: first tenor, Frank Hill; second tenor, C. W. Ballantyne; first bass, Harry Allen Marple; second bass, Lee H. Dana.

Merle Shields will have a reading: "To My Mother."

"Mother's Law" will be the theme for the sermon by Parson Tom.

This will be a splendid service and everybody is invited—7:45.

**L. D. S.**  
L. D. S. Sunday school will be held in the chapel of Parks funeral home at 10 a. m.; sacramental services at 7 p. m. are also to be held in the chapel.

The choir from Las Vegas will lead the singing and will bring some special numbers. There will also be speakers from the Las Vegas ward, who will each bring a message.

**BLOWOUT GIRLS ELECT OFFICERS**

The Blowout girls' club met at the home of Lauretta Guinn Saturday afternoon. Two new members are Verna Towler and Fern Guinn. New officers were elected.

Prizes were won by Dortha Shields and Verna Towler. A gift was presented to President Harriet Haas.

Those present were Dortha Shields, Fern and Lauretta Guinn, Virginia Julian, Verna Towler, Harriet Haas and Verloree Felts.

**MEET OSCAR, NEW MASCOT OF B. C. OFFICE FORCES**

Since the ejection of Herman, Mr. Hockaday's valuable female setter, from the Six Companies' office building, a new mascot has

(Continued on Page Four)

**BOULDER CITY CLASSIFIED**

FURNISHINGS for two room house for sale cheap. Call 913 New Mexico St. c10347

**NOTICE**  
All persons having claims, if any, against any contractor or sub-contractor on the F. H. Gottwald job in Boulder City will please present same immediately to the First State bank of Las Vegas.

Taylor Brothers.

Whole Visiting  
BOULDER CITY  
LUNCH AT  
BROWDER'S  
Cor. Ash and Nevada Blvd.

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## SMASH RECORD IN DRAKE MEET

DES MOINES, Ia., April 30. (AP)—Three great athletes distinguished themselves at the Drake relays today.

In a field that included nearly a score of record-breakers, the performances of Henry Brocksmith, George Saling and Ralph Metcalfe were outstanding.

Brocksmith, Indiana, set a new intercollegiate record in the two mile run and was anchor man on the winning four-mile relay team; Saling, Iowa, equalled the world's record in the high hurdles; and Metcalfe, Marquette, equalled the world mark in the 100-yard dash.

Notre Dame dominated the relay events, winning the feature one-mile and setting a new meet record in the two-mile of 7 minutes, 48.8 seconds.

Brocksmith, who yesterday was anchor man when Indiana set a new intercollegiate record in the distance medley relay, set out on his own in the two mile run today and came in more than a hundred yards ahead of Pilsbrog of Grinnell for a new intercollegiate record of 9:13.8. The previous record was set in 1912 by Perma of Cornell and was 9:17.8.

Saling set a new meet record of 14.6 seconds in the high hurdles yesterday in preliminaries. Today he broke that mark by running them in 14.4. The time equalled the world mark but Saling disqualified himself for this recognition by knocking over one hurdle.

Metcalfe is a negro, a sophomore at Marquette, and a sprinter. He ran the 100-yard dash in 9.5 seconds to equal the world's record today after everyone lost interest in his race because qualifying heats yesterday resulted in no faster than 9.9.

**MAJOR LEAGUE RESULTS**

**AMERICAN LEAGUE**  
Chicago ..... 230 000 020 - 7 9 2  
Cleveland ..... 060 001 03x - 10 11 5  
Frasier, Thomas and Grube;  
Brown, Hildebrand and Myatt.  
Boston ..... 000 101 010 - 3 9 1  
New York ..... 001 000 23x - 6 8 3  
Lesenbe and Tate; Pippas and Deicy.

**NATIONAL LEAGUE**  
St. Louis ..... 203 001 000 - 3 7 1  
Chicago ..... 000 121 00x - 5 8 0  
Rhem and Wilson; Warnecke and Hartnett.  
New York ..... 011 200 000 - 4 7 0  
Boston ..... 052 000 00x - 7 11 1  
Fitzsimmons, Gibson and Hogan;  
Seibold, Cantwell and Hargrave.  
Brooklyn ..... 012 400 000 0 - 7 18 4  
Phila. .... 011 200 000 1 - 8 18 2  
Shaute, Quinn and Lopez; Sukefort; Collins, Bolen, Grabowski and V. Davis, McCurdy.  
Cincinnati at Pittsburgh postponed, wet.

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First application takes out the soreness.  
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# LAS VEGAS AGE

## POST and PADDOCK

Courtesy of Boulder Club Handbook

### Churchill Downs Results

Clear, Fast.	
FIRST—\$1000 Clmg 2 YO Mdn Fill- Two Shippers ..... 5.10 4.50 2.40	5.50 2.50
Tusky Lass ..... 4.40	4.40
Princess Crusader ..... 5.50	2.50
THIRD—\$1000 Clmg 3 YO up 6 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
THIRD—\$1000 Alwces 2 YO 4 1/2 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
FOURTH—\$1000 Clmg 3 YO up 6 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
FIFTH—\$5000 Hdcp 3 YO up 1-1-16	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
SIXTH—\$1000 Alwces 3 YO 6 1/2 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
SEVENTH—\$1000 Clmg 4 YO up 6 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
EIGHTH—\$1000 Clmg 4 YO up 6 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
NINTH—\$1000 Clmg 4 YO up 6 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50
TENTH—\$1000 Clmg 4 YO up 6 f.	
1-18 2-5.	
Janet Packard ..... 5.10 3.20 2.80	4.20 2.40
Demeter ..... 4.20 2.40	4.20 2.40
Princess Crusader ..... 5.50	2.50

### Havre de Grace Results

Clear, Fast.	
FIRST—\$1200 Clmg 3 YO up Mile	
79 Yds. 1:44 4-5.	
Louis Merriman ..... 28.90 9.20 4.50	5.50 2.60
Burnside 116, Prince West End, 116; Huraway ..... 3.90	3.90
THIRD—\$1200 Clmg 2 YO 4 1/2 f.	
1-18 2-5.	
Super Charge ..... 8.20 6.80 4.20	5.90 5.80
Liquore ..... 9.90 5.80	3.90
FOURTH—\$1500 Hdcp 3 YO up 5 1/2 f.	
1-18 2-5.	
Gallant Knight ..... 4.60 2.60 2.40	2.40 2.20
Flaeston ..... 4.20 2.20	4.20 2.20
FIFTH—\$10,000 Added Hdcp 3 YO up 1-1-16	
1-18 2-5.	
Flaeston ..... 4.20 2.20	4.20 2.20
SIXTH—\$10,000 Added Hdcp 3 YO up 1-1-16	
1-18 2-5.	
Flaeston ..... 4.20 2.20	4.20 2.20
SEVENTH—\$1200 Clmg 3 YO up 6 f.	
1-18 2-5.	
Star Saint ..... 7.20 4.70 3.10	5.20 3.40
Garlie ..... 5.20 3.40	5.20 3.40
Hide Away ..... 2.30	2.30

## ORLIN'S PICKS

- ALBORA**  
1—Doris B. Silent Shot, Friend John  
Kenny Roy.  
2—Ebony Prince, Lawyer, Red Cross  
Sister.  
3—Davidson entry, Denmark entry,  
Dr. Freedland.  
4—Batting On, Bill Orange, Come  
On.  
5—Druggist, The Orleanian, Van-  
onish.  
6—Present City, Starch, Winnie Jo.  
**BEST BET: DAVIDSON ENTRY.**
- PIMLICO**  
1—Sun Archer, Mt. Vernon, Big  
Flood.  
2—Sun Eclipse, Elder Bard, Night  
Retreat.  
3—Your Flag, Jorico, Sweet Senor-  
ita.  
4—Golden Fate, Snowdrift, Dark  
Love.  
5—Grave and Hold, Marlene, Vishnu.  
6—Sunyer, Orphan, War.  
**BEST BET: SUN ARCHER.**
- TANFORAN**  
1—Red Casino, Orin, Ramsey Mac,  
2—Ray Dugan, Miss Ogden, Wise  
Marie.  
3—Sun B. Backbone, Calgary Ju-  
stice.  
4—Bright Outlook, Frit W. Stick  
Around.  
5—Nevada Lad, La Wanda, Du-  
plicity.  
6—Belgian Lass, Jeu de Bar, Forty  
Four.  
7—Captain Dancer, Maxwell M. Ar-  
gon.  
8—Trossacks, Shasta Bally.  
**BEST BET: SUN B.**
- CHURCHILL DOWNS**  
1—Prince West End, Parade Step,  
Tredel.  
2—Green Wave, Prince Farthing,  
Epicure.  
3—Bather, Plumage, Chene.  
4—Black Swan, Princess Pert,  
Black Squaw.  
5—Princess A. G., Wood Honey, Noel  
Wood.  
6—Princess Donna, Arrowlike, Lena  
M.  
7—Ranch of Lilies, Princess Cru-  
sader, Beauty Secret.  
**BEST BET: BATHING ORPHAN.**
- HAVRE DE GRACE**  
1—Sweet Flag, 116; Fair Delight, 116;  
f-Sweet Flag, 116; Potential, 116;  
f-Chatwick, 116; a-Star Brook, 116;  
Stinger, 116; Prince West End, 116;  
Stenpetitich, 116; d-Venue H., 116; f-  
Ruckus, 116; g-Frank K., 116; g-  
Gordon's Son, 116; a-Big Flood, 116;  
Star Anthony, 116; Fredel, 116; d-  
Hilbur Ketch, 116; Pony 4p, 116; Pa-  
rade Step, 116; Field Goal, 116; c-  
C. Van Meter entry; d-Harred  
Brox entry; a-L. C. Young entry;  
f-Greentree; Stable entry; g-White  
House entry.  
**SECOND—\$1000 Clmg The East-  
ern Parkway, 3 YO 4 1/2 f.**  
Prince Farthing, 114; Pat C., 115;  
Thunderbolt, 115; Bronze Bird, 115;  
Trinchera, 115; Epidemic, 115; Bar-  
ashkova, 115; Dist Dat, 115; Man-  
ners, 115; Judge Primrose, 115; Zeph,  
115; Green Wave, 108; Last Attempt,  
108; Olive Sabath, 113; a-Greent