

## INTEROFFICE COMMUNICATION

Westlake, Louisiana  
April 24, 1970

TO: Mr. R. H. Gerlach - Westlake

SUBJECT: SPECIAL TESTS DURING OXY REACTOR LOADING  
APRIL 19, 1970

During the oxy reactor recharge in April 1970, two special tests were performed. One tube on each reactor was filled with a special catalyst at the request of Stauffer. A sketch showing the location of these tubes is enclosed. In addition, pressure drop measurements were taken on all the reactors after loading. Data on pressure drops are as follows:

R-301 Reactor:

Flow on rotameter - 15.5 SCFH (times a correction factor of 2.8 for 100 psig)  
- 43.4 SCFH actual air flow at 80 degrees F.

Thermowells

Delta P - Inches Water

SE location 4.75"  
SW location 5.70"  
One traverse across reactor from west edge to center.  
Point

|    |                             |
|----|-----------------------------|
| 1  | 4.2"                        |
| 2  | 5.6"                        |
| 3  | 4.7"                        |
| 4  | 4.9"                        |
| 5  | 4.7"                        |
| 6  | 4.4"                        |
| 7  | 4.9"                        |
| 8  | 9.0" (omitted from average) |
| 9  | 4.8"                        |
| 10 | 4.8"                        |
| 11 | 4.8"                        |
| 12 | 4.6"                        |
| 13 | 4.8"                        |

Average - 4.8" Water.

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Mr. R. H. Gerlach

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R-302 Reactor:

One traverse across reactor from west edge to center.

| <u>Point</u> |      |
|--------------|------|
| 1            | 5.0" |
| 2            | 5.0" |
| 3            | 5.0" |
| 4            | 5.1" |
| 5            | 5.0" |
| 6            | 5.5" |
| 7            | 4.9" |
| 8            | 4.8" |
| 9            | 4.9" |
| 10           | 5.3" |
| 11           | 5.1" |
| 12           | 5.0" |

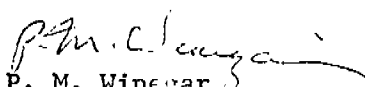
Average equals 5.05" Water.

R-303 Reactor:

One traverse across reactor from west edge to center.

| <u>Point</u> |      |
|--------------|------|
| 1            | 5.1" |
| 2            | 5.1" |
| 3            | 5.3" |
| 4            | 5.5" |
| 5            | 5.7" |
| 6            | 5.8" |
| 7            | 5.9" |
| 8            | 6.6" |
| 9            | 6.5" |
| 10           | 6.5" |
| 11           | 6.5" |
| 12           | 5.5" |
| 13           | 5.7" |

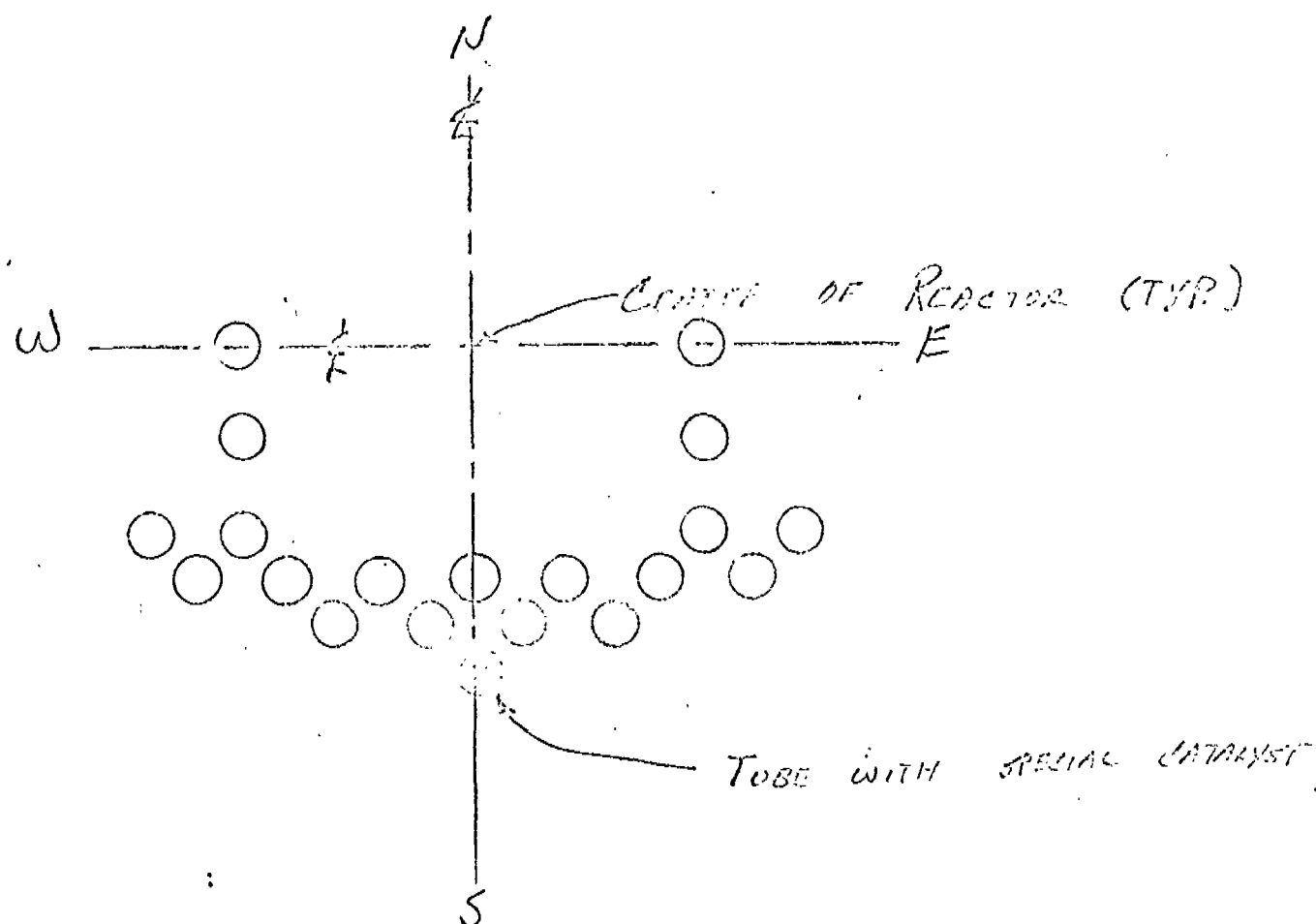
Average equals 5.8" water.

  
P. M. Winegar

PMW-MC

cc: JDM  
Martin Hawley  
Douglas Michels

CCR 000034228



CCR 000034229

Phd

4-29-70

SPECIAL OXY CATALYST