

## Interoffice Communication

To Mr. J. T. Zeien - Houston  
 From D. F. Myers - Lake Charles  
 Date February 5, 1982  
 Subject PROGRESS REPORT - PERIOD ENDING FEBRUARY 4, 1982  
 LAKE CHARLES REFINERY

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### Crude

Crude charge information is listed below. The shutdown of the Crude Units have certainly caused inventory problems. All available refinery crude oil storage is full. Clifton Ridge is also having trouble containing crude.

|                                             | Total Bbls. Thruput<br>For February | Avg. Chg. Rate<br>Past Week, BPD |
|---------------------------------------------|-------------------------------------|----------------------------------|
| No. 2 Crude Unit                            | 131,415                             | 25,624                           |
| No. 3 Crude Unit:                           |                                     |                                  |
| Crude                                       | -0-                                 | -0-                              |
| Humber Gas Oil                              | -0-                                 | -0-                              |
| Totals                                      | 131,415                             | 25,624                           |
| Average crude charge per day this month     |                                     | 43,805                           |
| Average gas oil charge per day this month   |                                     | -0-                              |
| Totals                                      |                                     | 43,805                           |
| Average crude charge for month of January   |                                     | 90,871                           |
| Average gas oil charge for month of January |                                     | 992                              |

### Operations Summary

The No. 2 Crude Unit was started up on January 31 and has been operating normally charging 40 MBPD. The gas oil and diesel products from the No. 2 Unit are being sent to Bayou feed.

The No. 3 Crude Unit remains down because of inadequate gas oil storage room. However, the unit will be started up over this coming weekend to provide Bayou feedstock and relieve the crude oil inventory situation. Hopefully, the FCC Mechanical work will finish as scheduled and gas oil can be contained until that time.

The FCC remained down while electrical repairs are being made. As we suspected, the refractory in the J-bend was cracked and is being repaired. Significant erosion to the rough cut cyclone outlet tubes and dip legs was also found. All four dip legs had holes and sections are being replaced. Repairs to the FCC are now scheduled for completion next Saturday, February 13.

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Both Alky reactors were opened up to search for any problems causing the high end point alkylate. There appears to be no problem with the reactors.

Repairs to the Sulfuric Acid Plant are essentially complete and this unit will be starting up in conjunction with the EFS Unit.

The Thermal Cracker apparently formed some coke during the power failure last week. The pressure drop and skin temperatures on both heaters have increased. The unit will have to be shut down for decoking in the next several weeks.

The Coker operated without any interruption. The Calciner feedspout was repaired last weekend and the unit brought on line. The current green coke charge rate is 480 TPD. Total downtime on the Calciner due to the power failure related feedspout failure was three days.

The No. 2 Reformer operation has been routine at 10 MBPD producing 94 RONC reformat. The No. 1 Reformer remains shutdown and will be regenerated next week.

The Power Plant operated without incident. The permanent incoming feeder lines have been placed in service replacing the temporary lines run last week. B-5 boiler work continues to replace the corroded boiler tubes.

#### Offsites & Inventories

The Dock facilities handled three ships and twelve barges this past week. Total delay time was 79-hours.

Total gasoline inventory is 351 MB and falling rapidly. No shipment schedules were cut this week, but will have to be reduced next week due to the present production rates.

Total distillate inventory is 304 MB with 101 MB of this inventory fungible kerosene.

Lightening struck the regular gasoline local loading tank, T-26, this past Saturday evening. The Emergency Team did an excellent job in controlling and extinguishing the fire. The tank will be taken from service to inspect and replace the damaged floating roof seal.

All of the No. 2 kerosene is being sent to the Chemical Plant as molex feed. This has created problems in obtaining Jet-50 specs. The molex raffinate returns from the Chemical Plant will no longer make minimum cetane value of 45 per the Colonial shipment specs. Evidently the recent changes to the Molex Unit to improve paraffin removal and revisions in the ASTM test method calculation, have resulted in a lower cetane value for the molex raffinate. Presently all of the Jet-50 is being moved out on Explorer pipeline since there are no cetane specifications for Explorer. This may be a problem in the future when the molex expansion is on-stream,

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requiring all of the kerosene from the No. 2 and No. 3 Crude Units.

The Coker began charging Ponca City Refinery slurry oil February 2. Approximately 500 BPSD are being charged to the unit.

The EFS heavy blend tank 338 was utilized for Humber gas oil storage, leaving only tank 297 for heavy blend product. Present plans call for utilizing this remaining heavy blend product tank for heavy vacuum gas oil storage once the EFS Unit is on-stream. The light and heavy blends cannot be segregated once this step is taken. The Bayou has agreed to take a mix of light and heavy blend.



D. F. Myers  
Process Superintendent  
Lake Charles Refinery

jg

cc:

Managers

ON WLW JHS FEB DFC KMcK LDW EEM KCH LH  
GC DBK DRG WWW EAH RB LTW MCS TB HBH

MCD 000022532