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Philips Semiconductors

March 14, 1997

Mr. Benito Garcia  
New Mexico Environment Department  
Hazardous & Radioactive Materials Bureau  
2044A Galisteo Street  
Santa Fe, NM 87505

Certified Mail: Z 729 721 095

**SUBJECT: Quarterly Progress Report**

Dear Mr. Garcia:

In compliance with Philips Semiconductors' HSWA permit (NMD000709782-1), modified March 18, 1996, this letter serves as the quarterly progress report as required. The following progress has been made between December 14, 1996, and March 13, 1997.



- *D.1(a) - A description of the work completed and an estimate of the percentage of work completed:* Quarterly groundwater monitoring was completed between January 15 and 20 for this period. New groundwater contours were developed using the City of Albuquerque's well elevations. Two new maps were generated, one showing the groundwater contours with all wells included (Figure 2-6a) and one showing the groundwater contours excluding MW-3 (Figure 2-6b) which has seemed to be an anomalous well in that it has never shown over 1 ppb of PCE contamination. Figure 2-6a shows a definite eastward direction on the east side of the property which could be due to a buried channel or other such geological change in this area. Figure 2-6b shows a definite south-southeast direction which is typical for groundwater flow in this area. These maps are included for your records. Carl Will and Susan Hoines, NMED/HRMB, and Baird Swanson, NMED/GPRB, toured the Facility on December 17, 1996, and reviewed historical data. The City of Albuquerque surveyed their well elevations on February 13, 1997. This information is included for your records.
- *D.1(b) - Summaries of all findings, including summaries of laboratory data:* A quarterly groundwater monitoring report (DBSA; February 24, 1997) is included with this report for your files. This groundwater report includes analytical results for Appendix IX constituents for Philips' monitoring wells MW-1, MW-2, MW-3, and MW-4 as well as for the City of Albuquerque's monitoring wells NCLF-2, NCLF-3, and NCLF-4 (also designated as ABQ-2, ABQ-3, and ABQ-4). The constituents found in the groundwater for this effort were barium, lead, selenium, zinc, perchloroethylene, toluene, and phenol. Only PCE exceeded the lowest applicable federal

File: HSWA P5GMR  
TRACK: PS, 3-14-97, 3-18-97, HRMB, PS, RE: (highlighted), HSWA P5GMR

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\* Quarterly Monitoring report is in the library.  
Call # 10 PHS 3c

or state drinking water standard. Bis(2-ethylhexyl)phthalate was not found in this sampling event (it was found in the previous sampling event only) further confirming our suspicion that it was a laboratory contaminant. Toluene and phenol were only found in the City's wells leading us to believe they are installation contaminants, pump contaminants, or field sampling contaminants (the City wells are purged using a submersible pump, which had to be cleaned and repaired during the sampling event, with a diesel generator whereas the Philips wells are purged using a dedicated pump with nitrogen). This theory will be tested during the next sampling event. It should be noted that PCE was discovered in NCLF-2 which is located on the north end of the property in concentrations equivalent to MW-2 which is more centralized to the property. This establishes some doubt that the contamination originates on the Philips property.

- *D.1(c) - Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems:* DBSA experienced problems with the pump they had rented to collect samples from the City wells. The pump had to be cleaned and repaired during the sampling event.
- *D.1(d) - Projected work for the next reporting period:* Quarterly groundwater monitoring will continue and groundwater samples will be obtained from wells MW-1, MW-2, MW-3, MW-4, NCLF-2, NCLF-3, and NCLF-4 in April 1997. NMED will be reviewing the draft RFI Workplan. Philips will address all NMED comments on the draft RFI Workplan when comments are received.
- *D.1(e) - Summaries of contacts pertaining to corrective action or environmental matters with representatives of the local community, public interest groups or State government during the reporting period:*

**City of Albuquerque:** Doug Earp, City of Albuquerque, toured the Facility on December 17, 1996, along with representatives of NMED. In February, he was contacted by Melanie McKinley to discuss groundwater elevations and contours. Mr. Earp provided maps of the regional groundwater flow with the new City wells included.

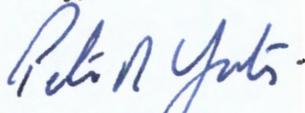
**New Mexico Environment Department:** Carl Will and Susan Hoines, NMED/HRMB, and Baird Swanson, NMED/GPRB, toured the Facility on December 17, 1996. The group was shown all outside structures relevant to the RFI (monitor wells, methane vents, drainage features, adjacent properties, and areas of land subsidence). Historical data was reviewed as well as the reasoning behind pursuing a phased approach for the investigation. Comments from Federal EPA were discussed briefly and Mr. Will agreed to summarize these comments in a letter. This information has not been received to date.

- *D.1(f) - Changes in key project personnel during the reporting period:* Philips has hired a new environmental engineer, Joe Mauser. Melanie McKinley is now a contractor to Philips but will remain the main contact on the RFI.
- *D.1(g) - Summaries of all changes made in implementation during the reporting period:* No changes made.

If you have any questions regarding this submission, please call our technical contact, Melanie McKinley at (505) 858-2781 or Joe Mauser at (505) 822-7634.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Peter N. Yates  
Plant Manager

(ENV712)

Enclosures

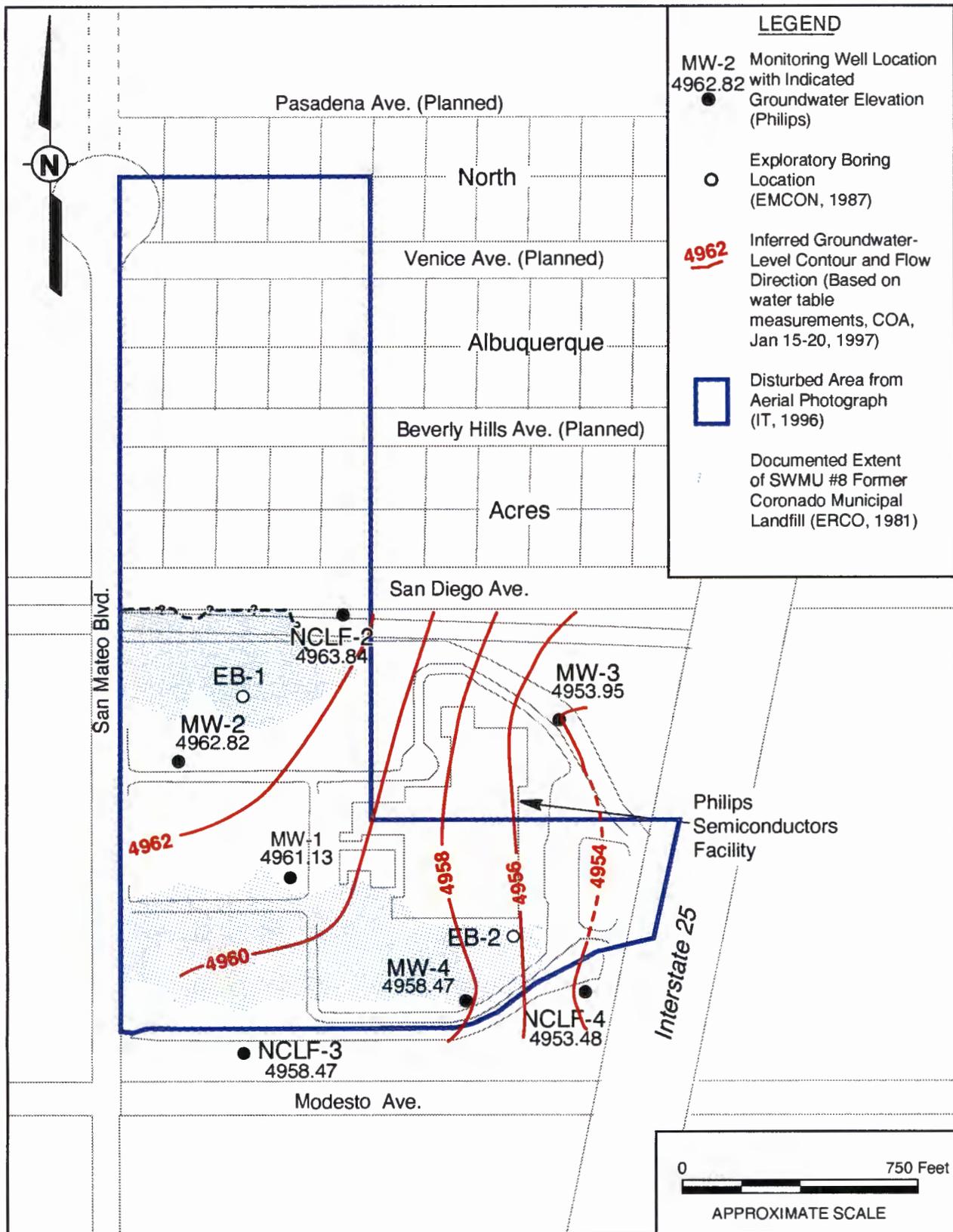
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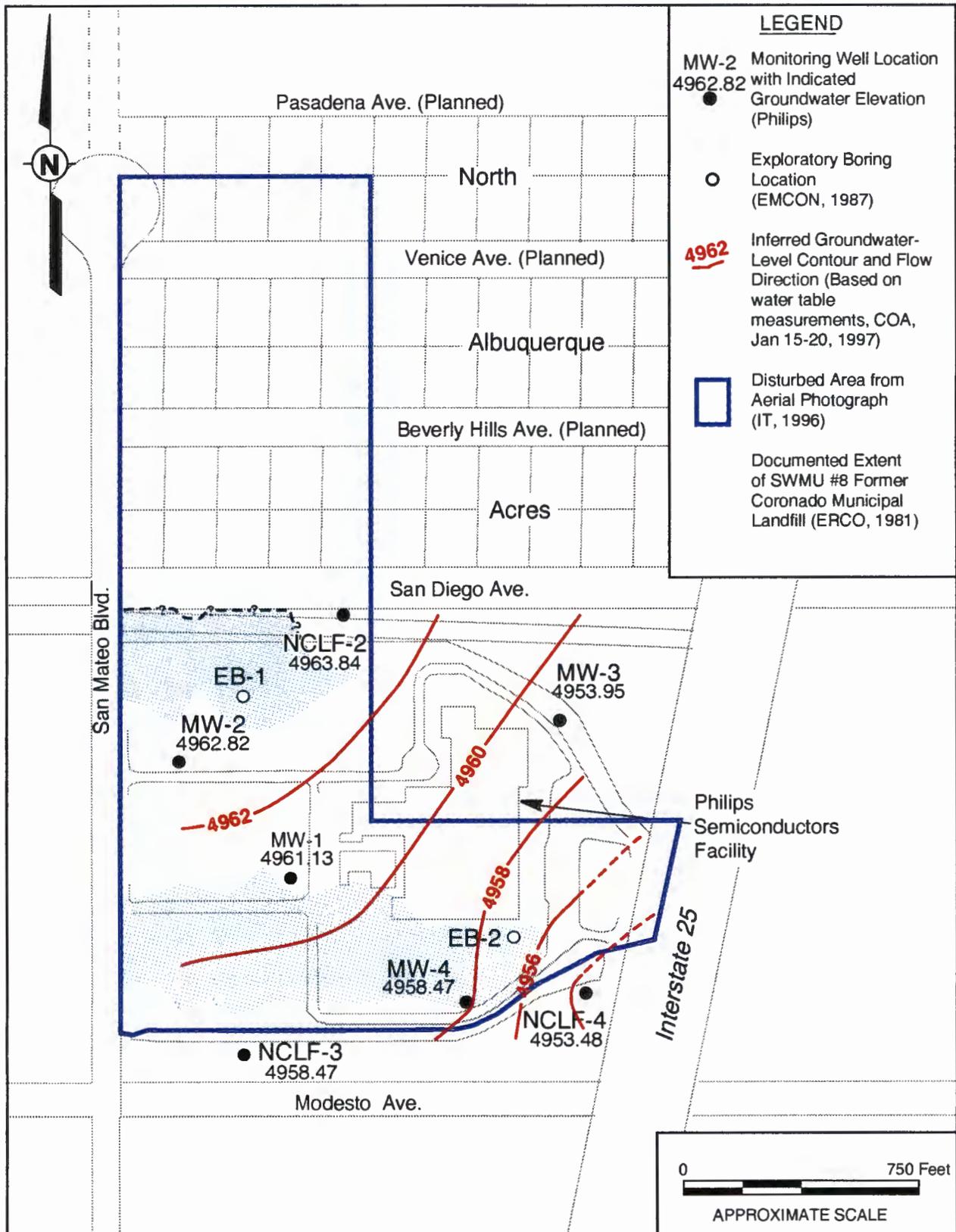
USEPA Region VI  
James Casey, Philips Legal Counsel

w/o enclosures:

Jim Cochran, Philips EHS Manager  
Susan Hoines, NMED  
Environmental Department File



**Figure 2-6a**  
**Top of Groundwater Surface Below SWMU #8, Utilizing all Monitor Well Data, Former Coronado Municipal Landfill**



**Figure 2-6b**  
**Top of Groundwater Surface Below SWMU #8, Excluding Monitor Well MW-3 Data, Former Coronado Municipal Landfill**

FEBRUARY 13, 1997

MONITORING WELLS PROJECT # 5640.71

<u>WELL</u>	<u>ELEVATION</u>	<u>DESCRIPTION</u>
NCLF-2A	5162.99 FT.	<i>NE corner of concrete pad @ NCLF-2</i>
NCLF-2	5162.64 FT.	<i>Well casing, North side</i>
PHILLIPS-3	5186.32 FT.	<i>Well casing, South side @ depth hole</i>
NCLF-4A	5194.69 FT.	<i>NE corner of concrete pad @ NCLF 4</i>
NCLF-4	5196.30 FT.	<i>Well casing, North side</i>
NCLF-3A	5160.75 FT.	<i>NE corner of concrete pad @ NCLF-3</i>
NCLF-3	5162.43 FT.	<i>Well casing, North side</i>

**GENERAL NOTES:**

1. Elevations were derived from City of Albuquerque Control Monument 6-B17, Elevation 5150.57. For more information call Geodetic Surveyor at 768-3609.

2/26/97

Melanie,

State plane coordinates for our wells are:

<u>WELL</u>	<u>X-COORD.</u>	<u>Y-COORD</u>
NCLF-2	400342.406	1525670.375
NCLF-3	400059.750	1524161.250
NCLF-4	401280.000	1524333.000

The attached map shows general locations for the wells.

Please call if you need additional information.

Dong



3/4/97

Melanie / Baird

Here is a series of water level elevation plots prepared using recent water level measurements for various combinations of wells. A copy of the data file is also enclosed.

Fig. 1 extends roughly from the Sandia boundary on the north to Paseo del Norte on the south, the North Diversion Channel on the west to I-25 on the east.

Fig. 2 extends north only to San Diego Ave.

Fig. 3 extends north to San Diego and south to Modesto

Fig. 4 eliminates Phillips MW-3 and NCLF-4.

Fig. 5 eliminates NCLF-1 as well as MW-3 and NCLF-4

My interpretation is that regional ground water flow is generally toward the southeast, but there is an eastward deflection along the east margin of Phillips property (possibly associated with a change in lithology - a buried channel??).

Please call if you have questions.

Doug

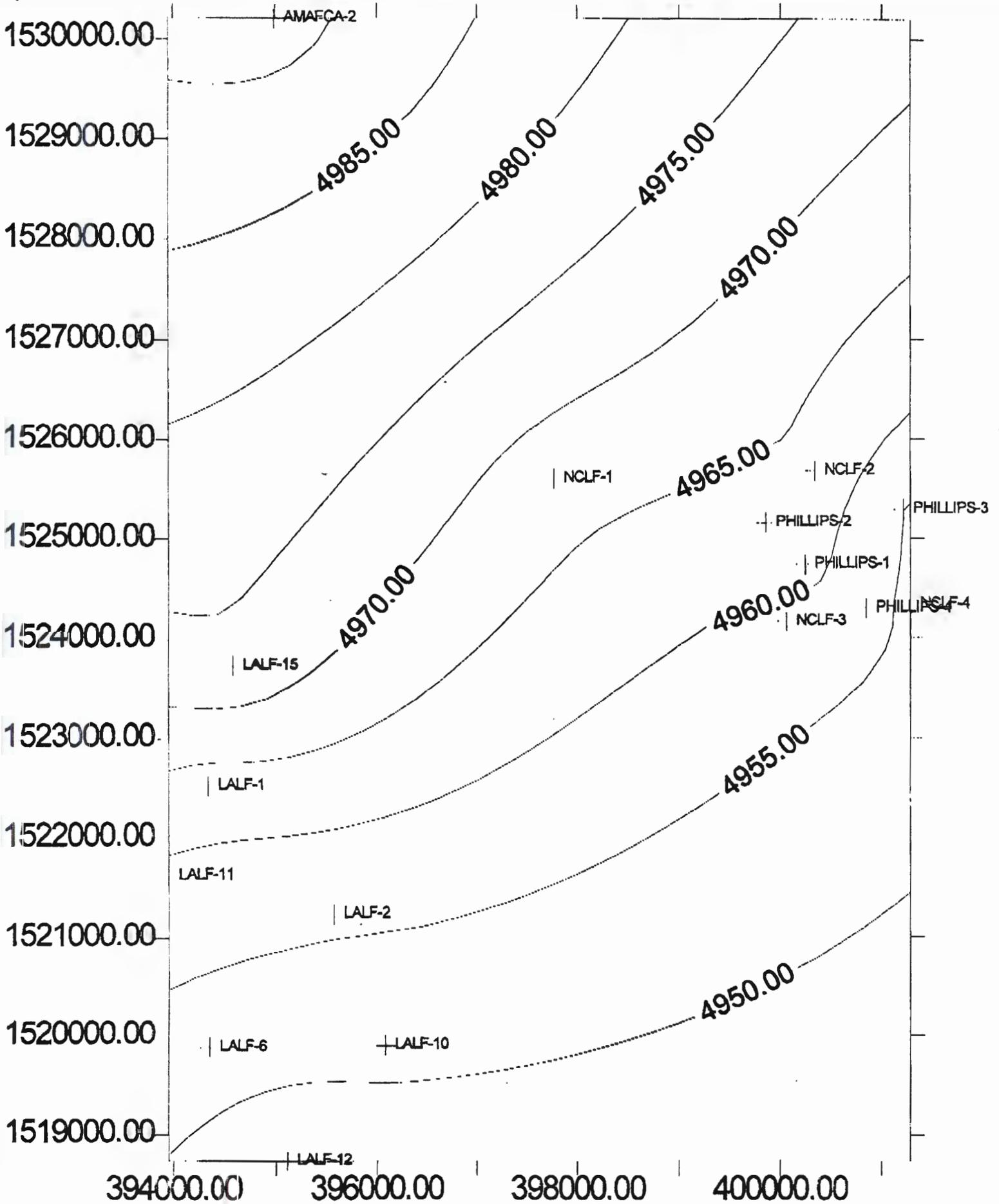


FIG. 2

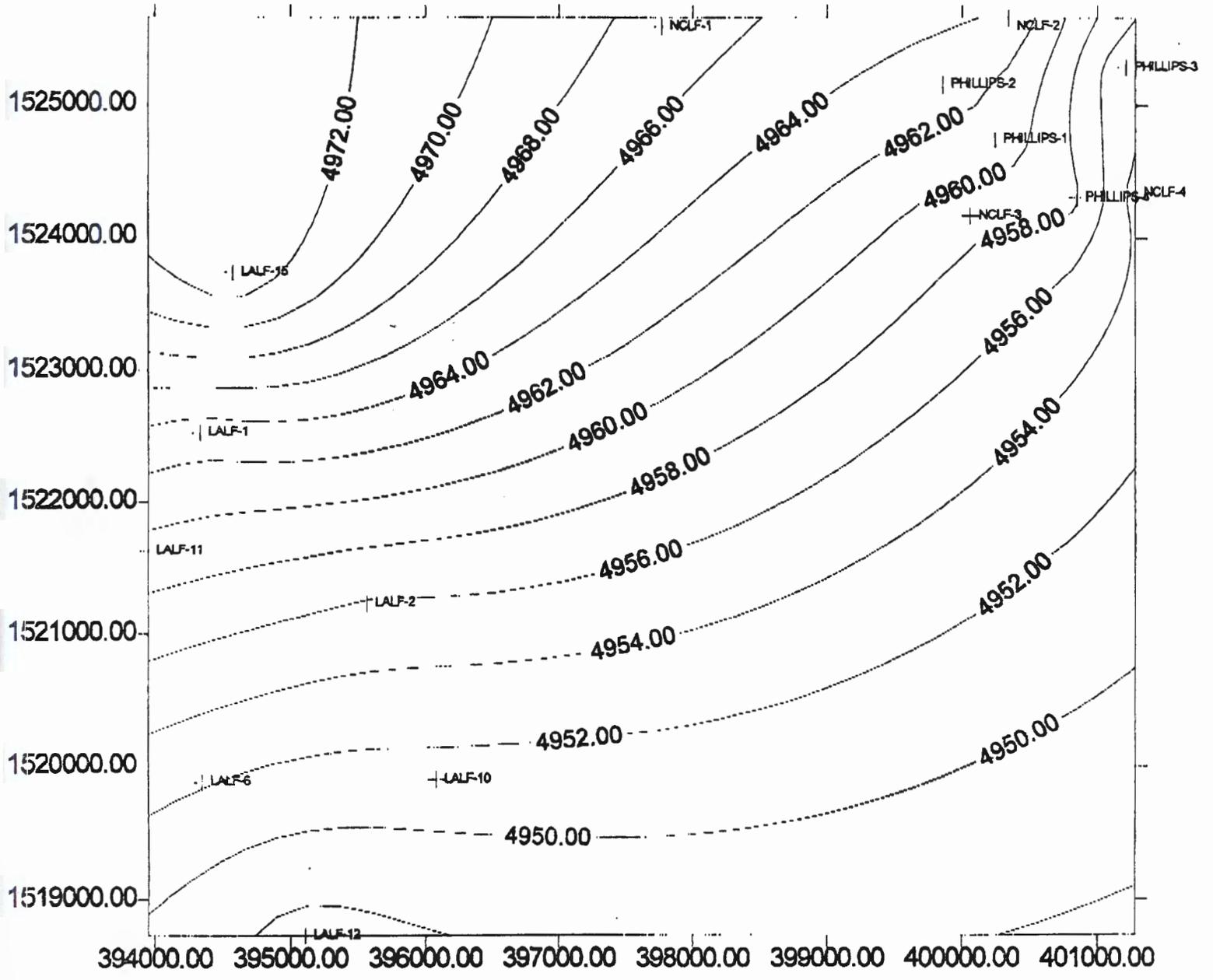


FIG. 3

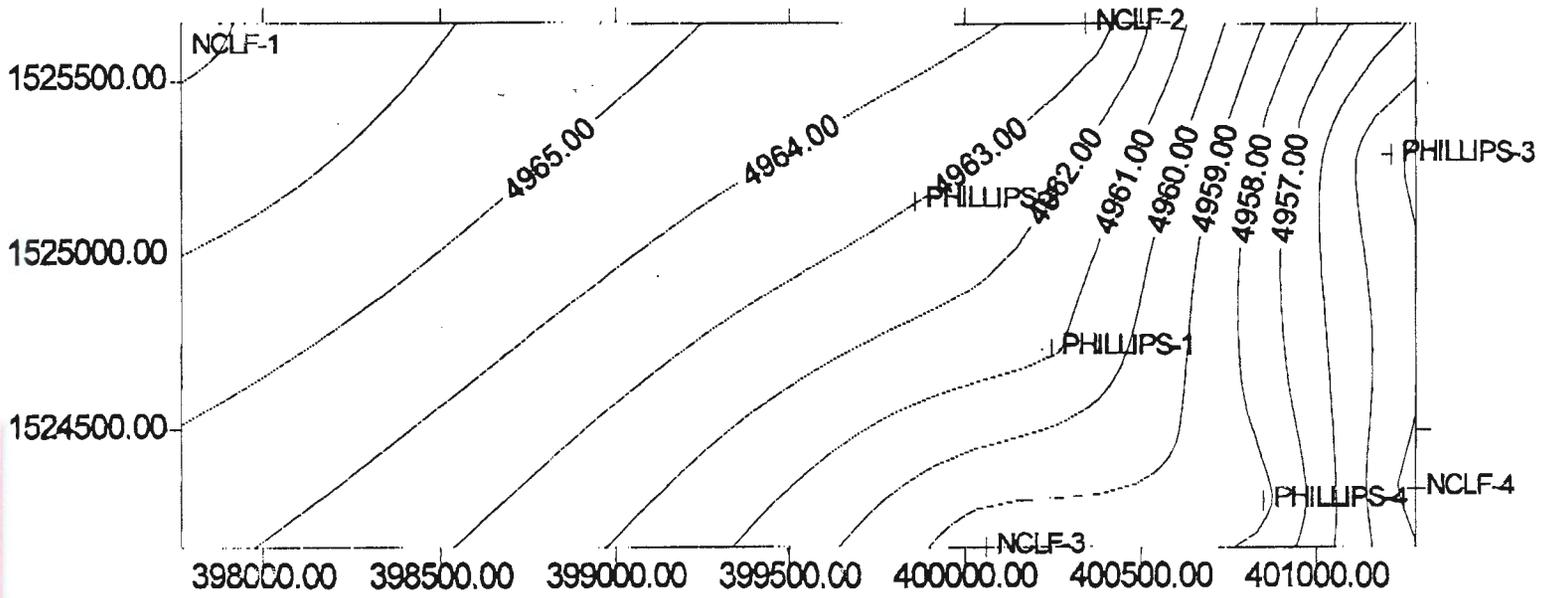


FIG. 41

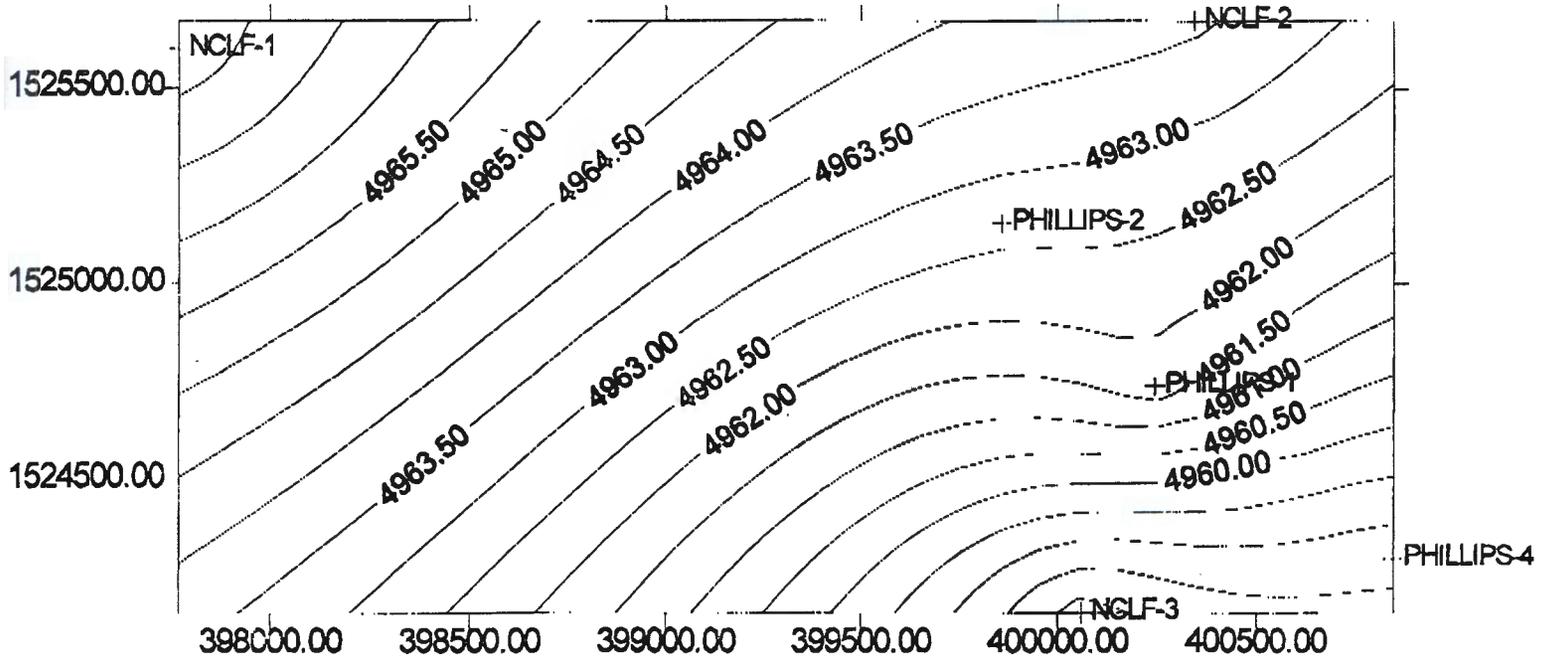
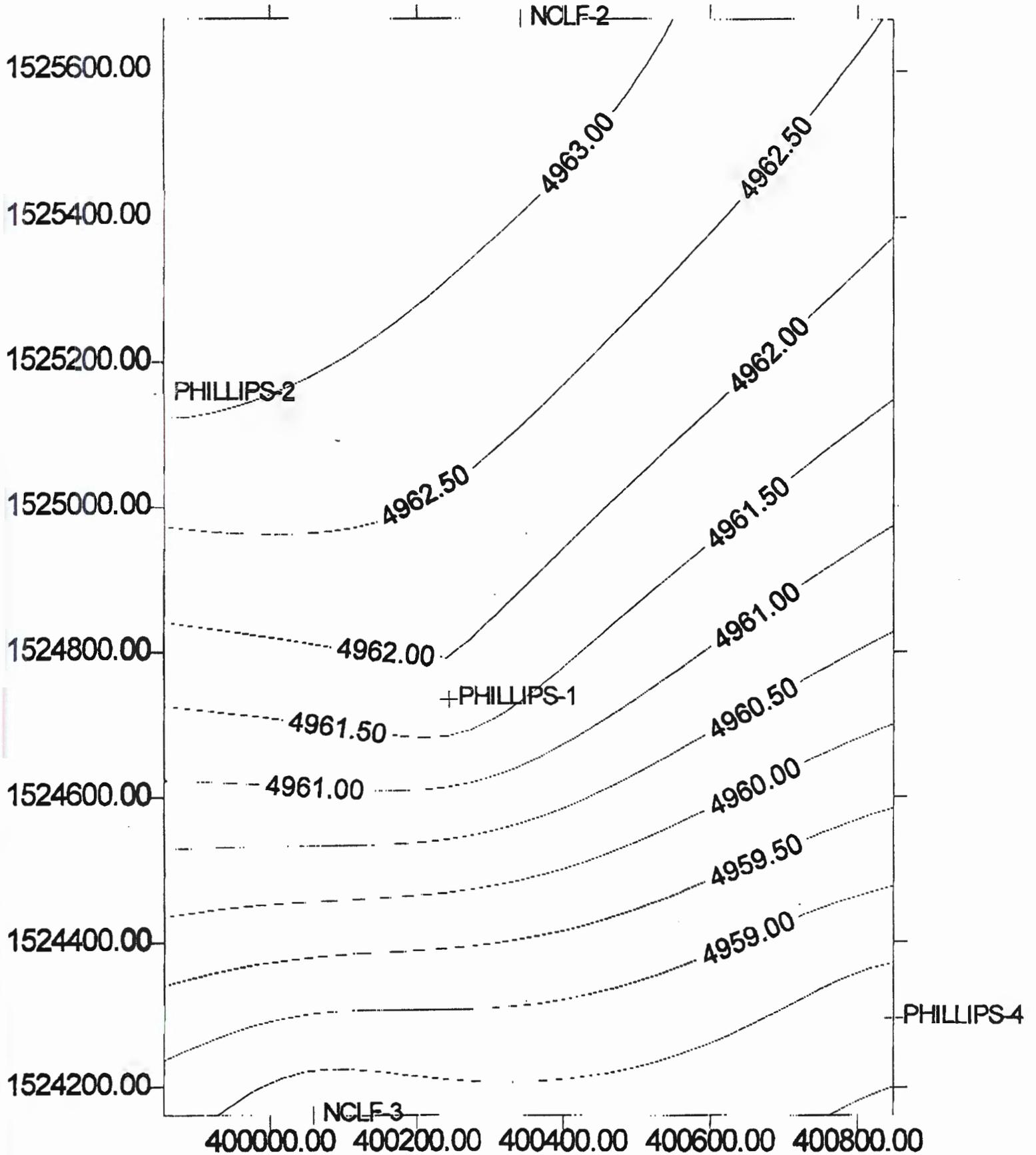


FIG. 5



"X-COORD.", "Y-COORD.", "WELL", "WATERELEV."

394988,1530199,"AMAFCA-2",4992.01

397770,1525598,"NCLF-1",4967.2

400342,1525670,"NCLF-2",4963.84

400059,1524161,"NCLF-3",4958.4

401280,1524333,"NCLF-4",4953.48

400244,1524736,"PHILLIPS-1",4961.16

399858,1525156,"PHILLIPS-2",4962.84

401211,1525290,"PHILLIPS-3",4953.93

400848,1524297,"PHILLIPS-4",4958.33

394335,1522525,"LALF-1",4962.9

395567,1521232,"LALF-2",4955.33

394349,1519882,"LALF-6",4952.12

396077,1519899,"LALF-10",4951.01

393954,1521625,"LALF-11",4959.67

395110,1518727,"LALF-12",4947.55

394577,1523731,"LALF-15",4973.71