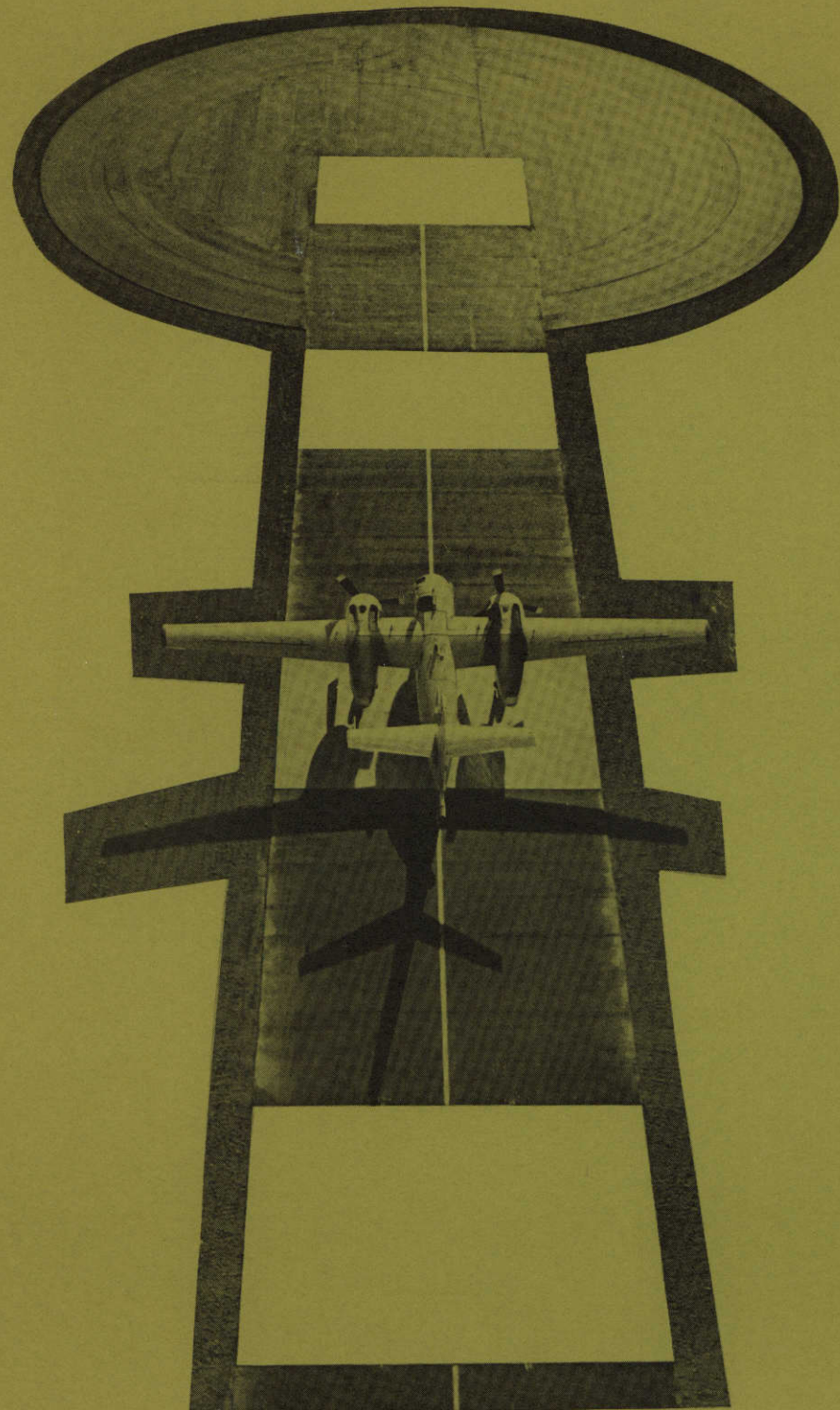



Geology  
GJBX-78-20

GJBX-20(78)

AERIAL GAMMA RAY AND MAGNETIC SURVEY  
LINCOLN QUADRANGLE, NEBRASKA

FINAL REPORT  
VOLUME IIa



Prepared by:  
 **geoMetrics**  
Sunnyvale, California  
November 1977

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Grand Junction, Colorado 81501

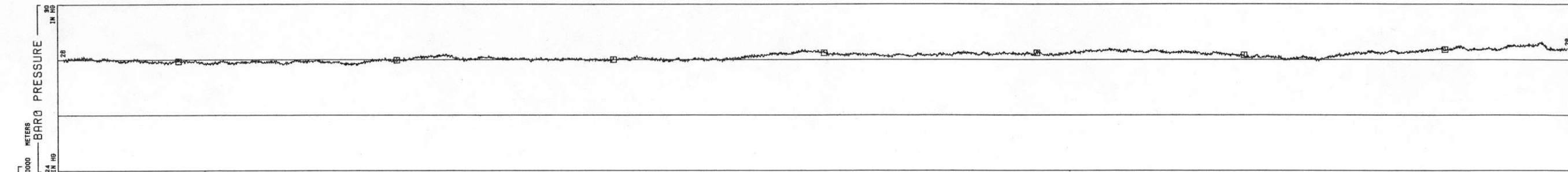
metadc958253



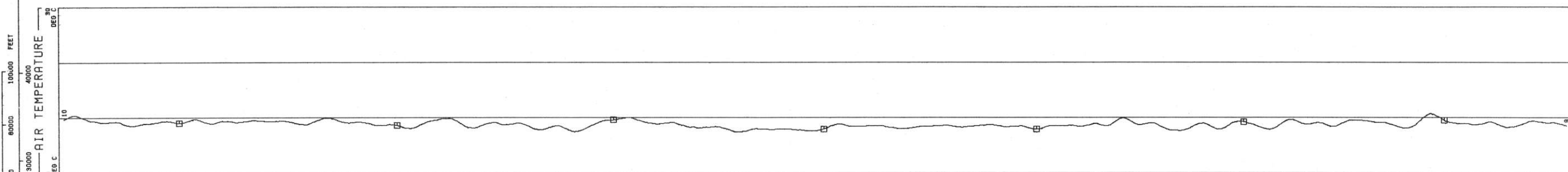




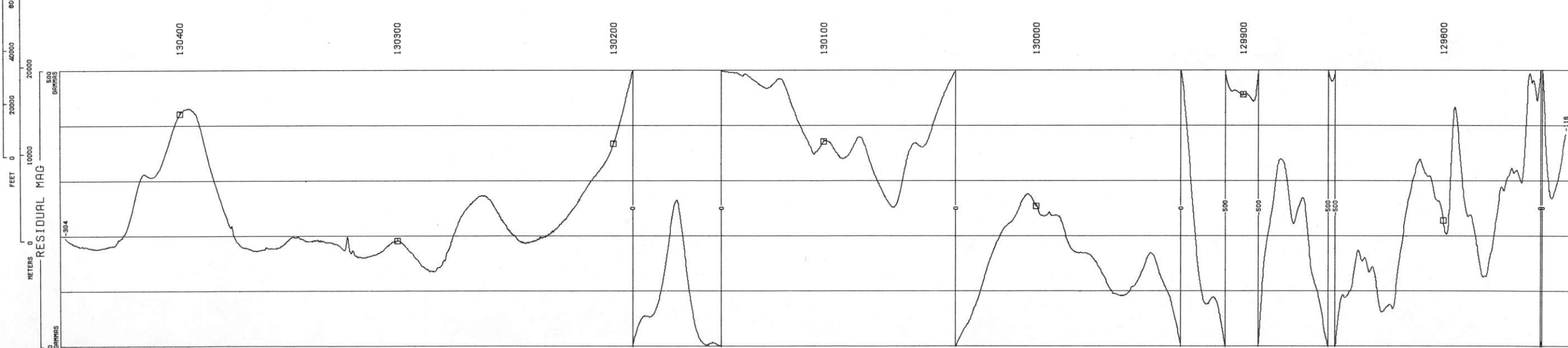
LINE 48  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



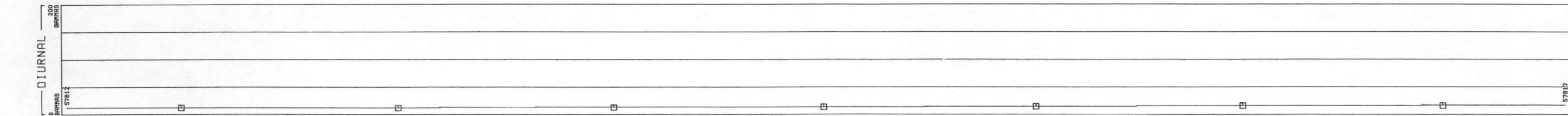
BARO PRESSURE  
 IN HG  
 MIN 27.80  
 MAX 28.66  
 MEAN 28.13  
 STD DEV .1629



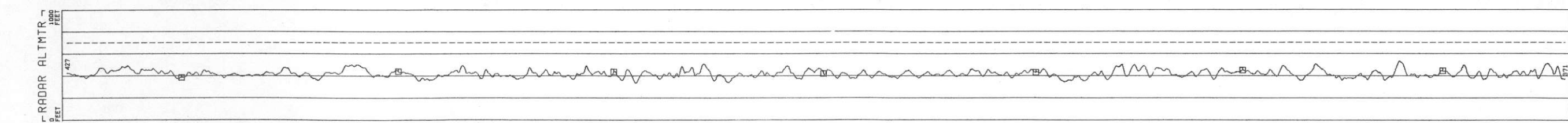
AIR TEMPERATURE  
 DEG C  
 MIN 7.407  
 MAX 10.72  
 MEAN 8.803  
 STD DEV .6111



RESIDUAL MAG  
 GAMMAS  
 MIN -556.1  
 MAX 278.5  
 MEAN -166.3  
 STD DEV 194.2

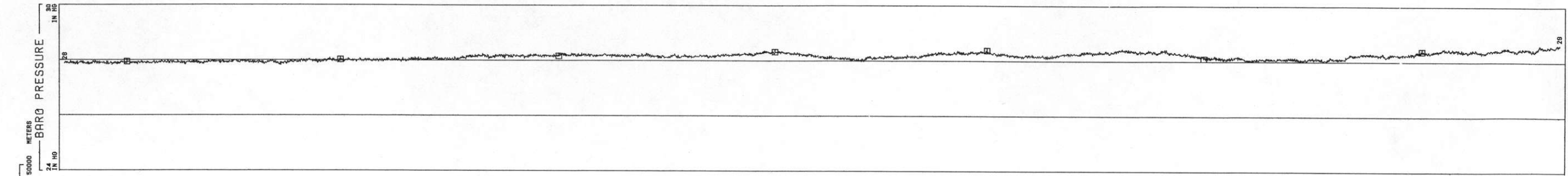
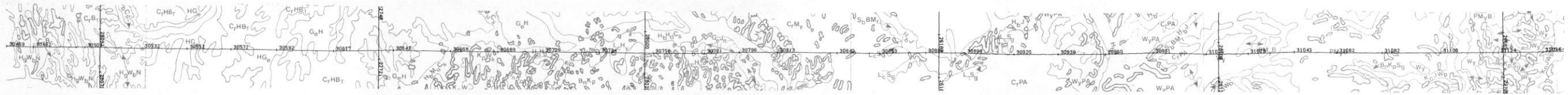


DIURNAL  
 GAMMAS  
 MIN 5781.1  
 MAX 5781.7  
 MEAN 5781.3  
 STD DEV 1.675

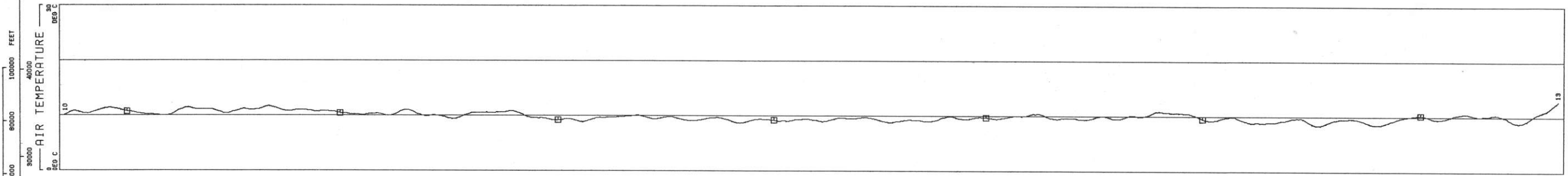


RADAR ALTMTR  
 FEET  
 MIN 397.3  
 MAX 533.8  
 MEAN 421.3  
 STD DEV 31.99

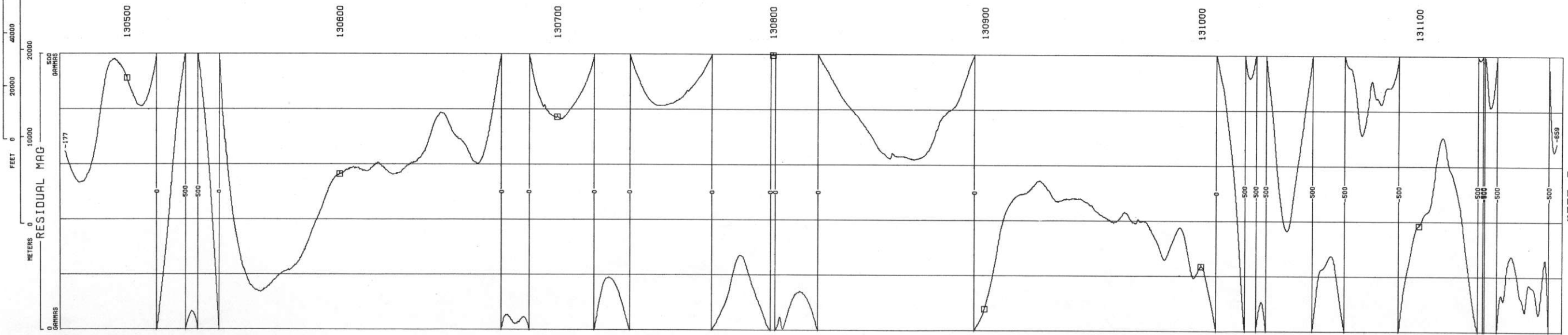
LINE 49  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



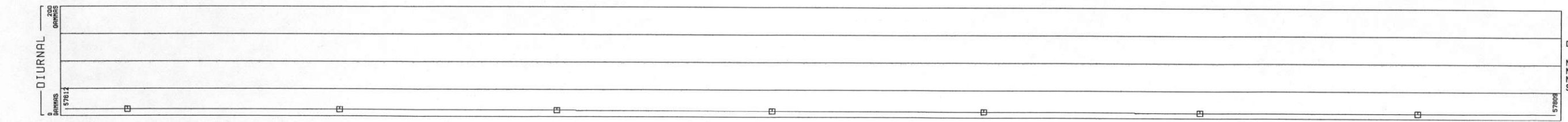
BARO PRESSURE  
 IN HG  
 MIN 27.82  
 MAX 28.64  
 MEAN 28.16  
 STD DEV .1549



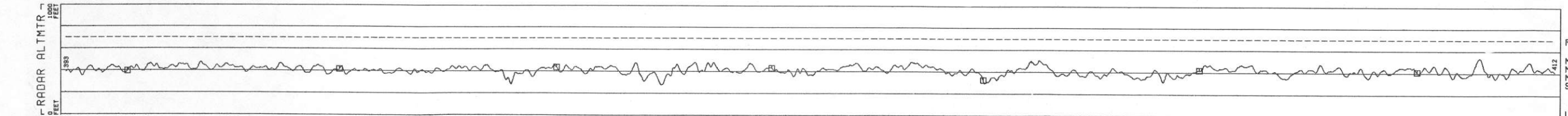
AIR TEMPERATURE  
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 MIN 8.429  
 MAX 12.83  
 MEAN 9.938  
 STD DEV .7106



RESIDUAL MAG  
 GAMMAS  
 MIN -817.2  
 MAX 533.0  
 MEAN -125.3  
 STD DEV 254.6



DIURNAL  
 GAMMAS  
 MIN 57809  
 MAX 57812  
 MEAN 57810  
 STD DEV .9884



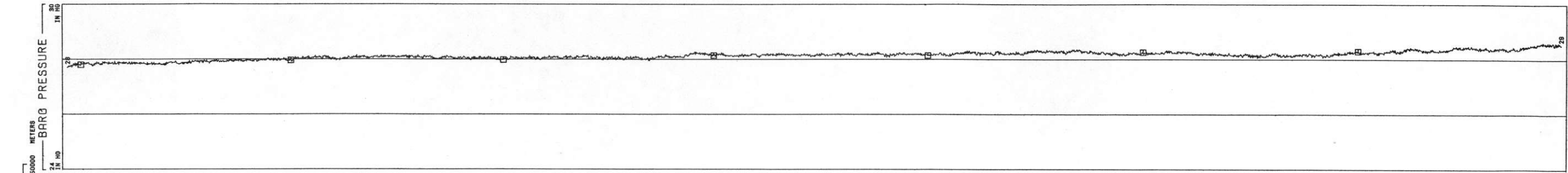
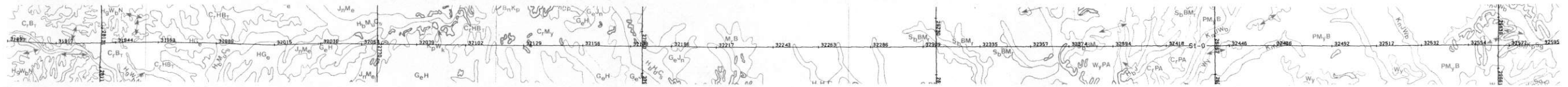
RADAR ALTMTR  
 FEET  
 MIN 279.0  
 MAX 537.8  
 MEAN 413.9  
 STD DEV 34.61



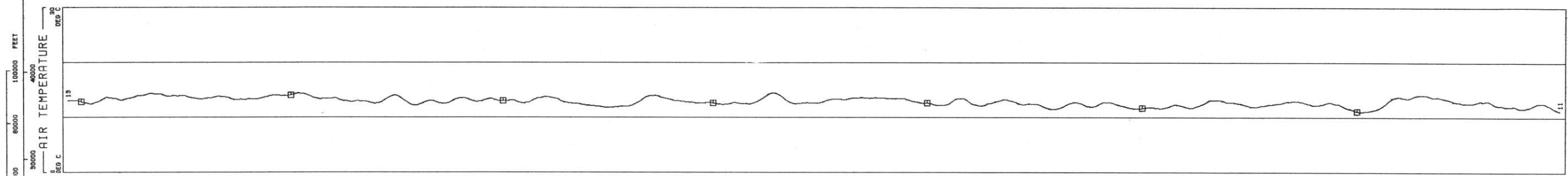




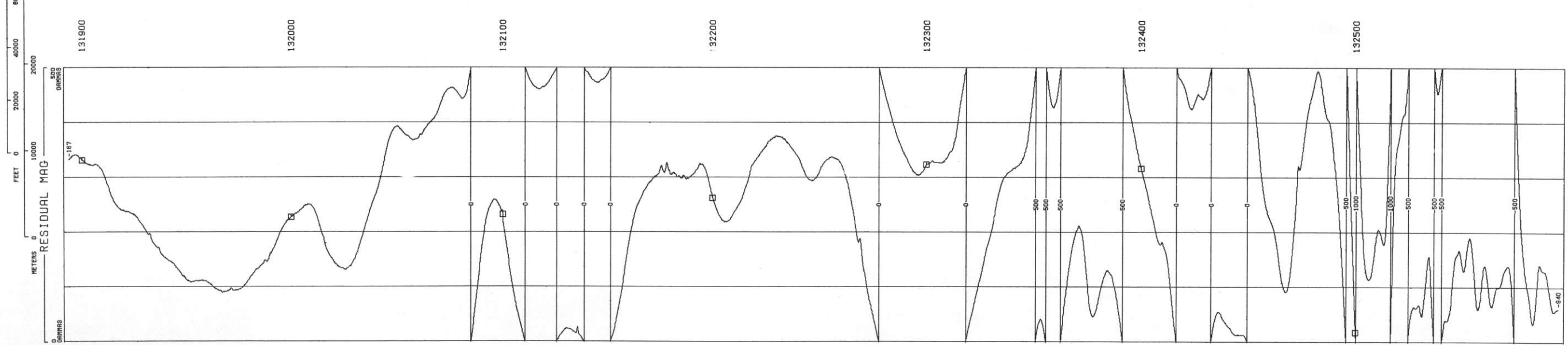
51  
 LINE 51  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



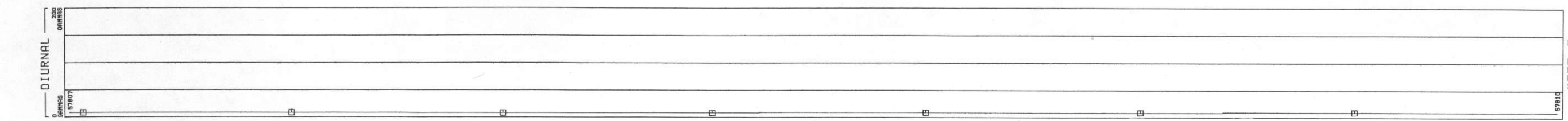
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 MEAN 28.14  
 STD DEV .1572



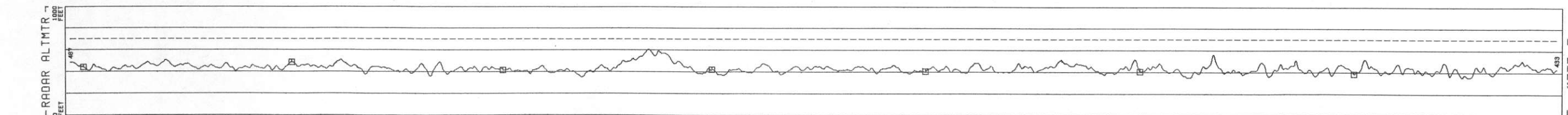
AIR TEMPERATURE  
 DEG C  
 MIN 11.09  
 MAX 14.47  
 MEAN 12.88  
 STD DEV .7014



RESIDUAL MAG  
 GAMMAS  
 MIN -1386  
 MAX 712.6  
 MEAN -82.02  
 STD DEV 378.5



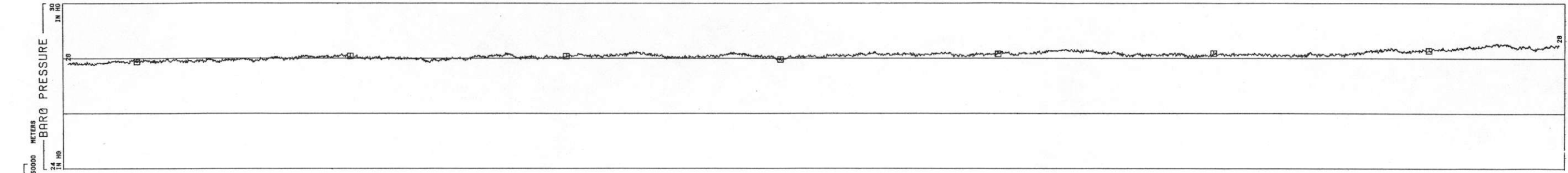
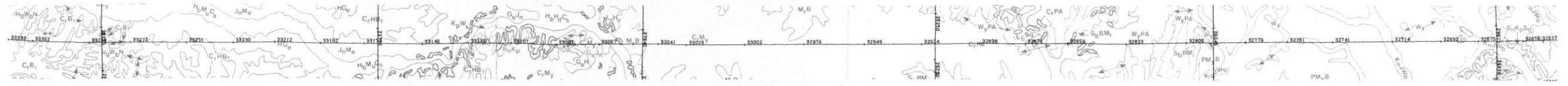
DIURNAL  
 GAMMAS  
 MIN 57807  
 MAX 57810  
 MEAN 57808  
 STD DEV .8057



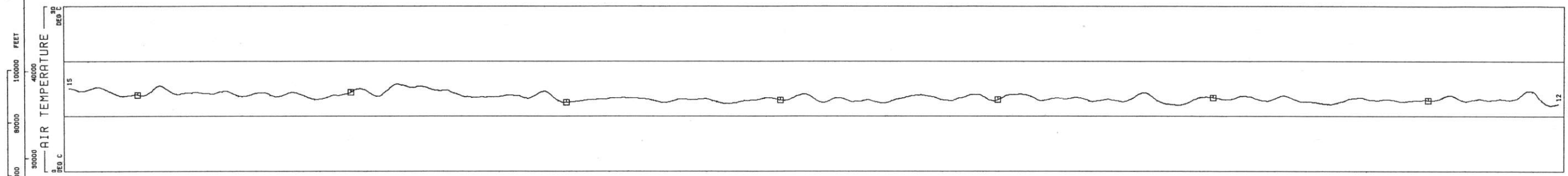
RADAR ALTMTR  
 FEET  
 MIN 351.0  
 MAX 608.2  
 MEAN 435.1  
 STD DEV 37.09



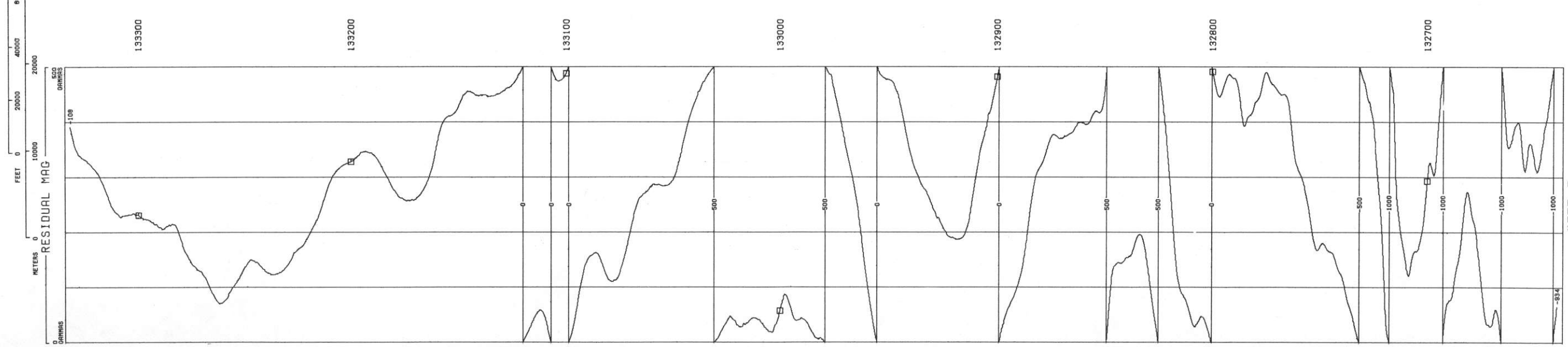
LINE 52  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



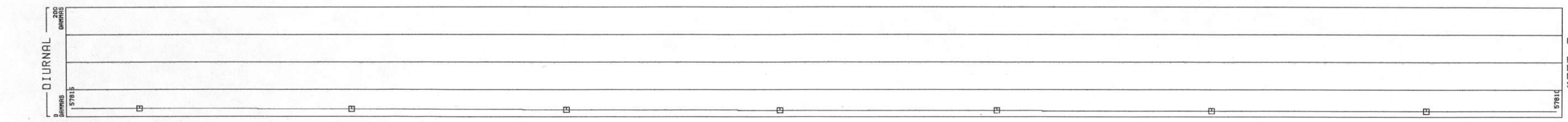
BARO PRESSURE  
 IN HG  
 MIN 27.76  
 MAX 28.56  
 MEAN 28.12  
 STD DEV .1449



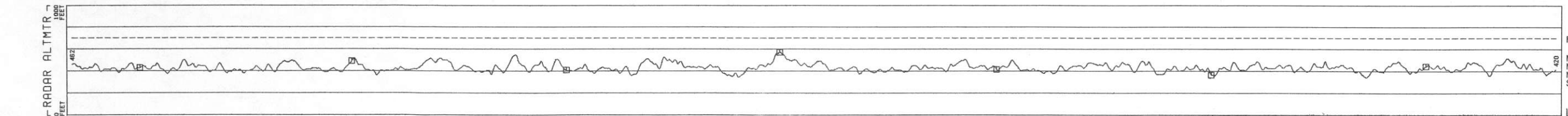
AIR TEMPERATURE  
 DEG C  
 MIN 11.97  
 MAX 15.86  
 MEAN 13.46  
 STD DEV .7461



RESIDUAL MAG  
 GAMMAS  
 MIN -1378  
 MAX 696.5  
 MEAN -119.53  
 STD DEV 467.2



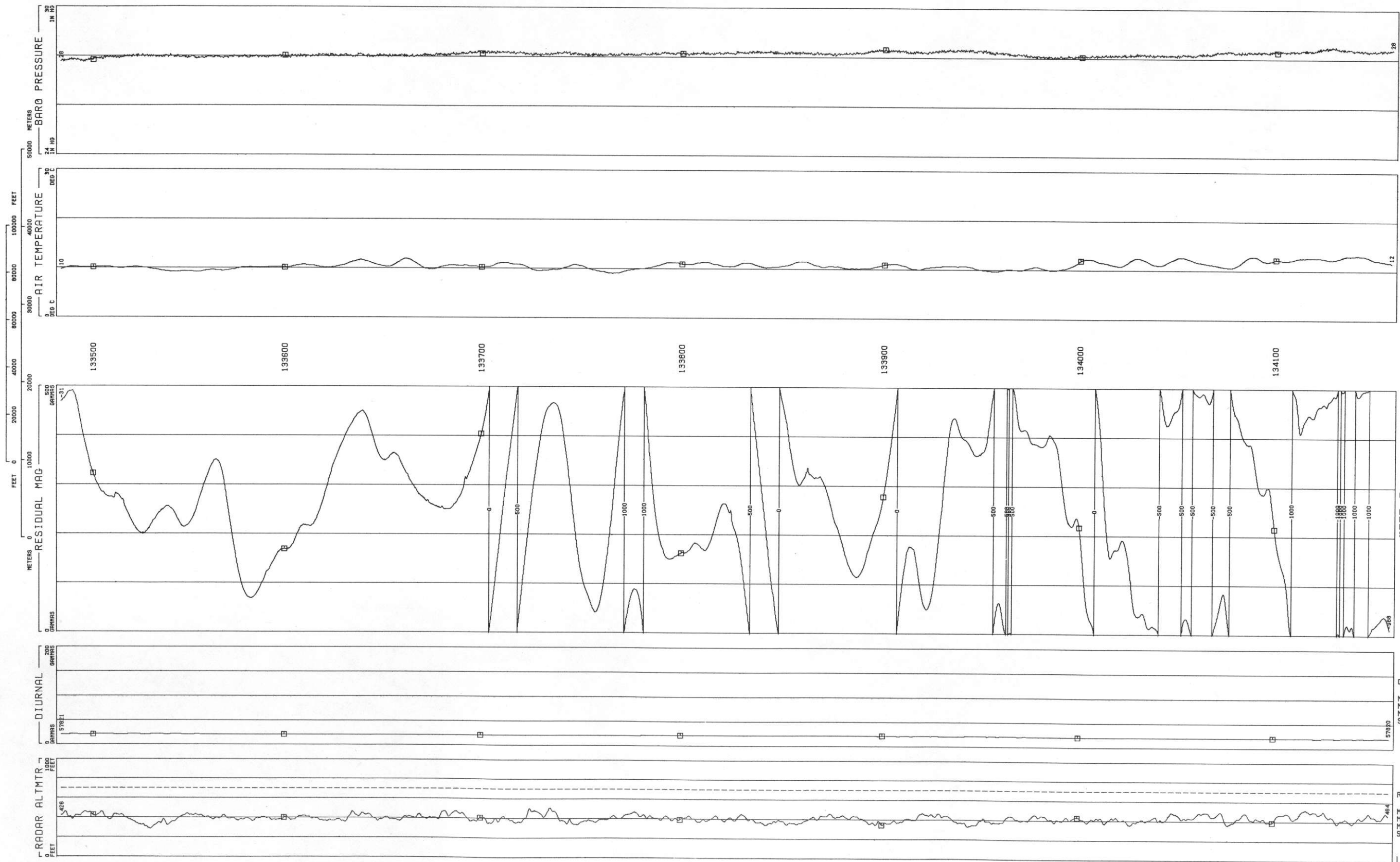
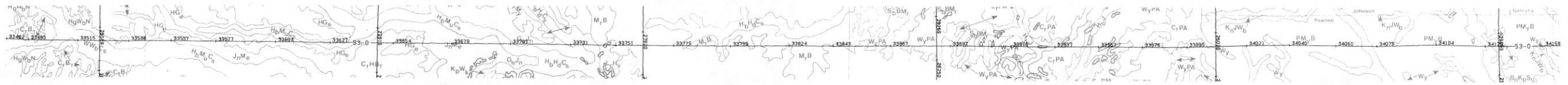
DIURNAL  
 GAMMAS  
 MIN 57810  
 MAX 57815  
 MEAN 57812  
 STD DEV 1.384



RADAR ALTMTR  
 FEET  
 MIN 347.4  
 MAX 572.5  
 MEAN 434.1  
 STD DEV 35.13



LINE 53  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



BARO PRESSURE  
 IN HG  
 MIN 27.77  
 MAX 28.53  
 MEAN 28.14  
 STD DEV .1317

AIR TEMPERATURE  
 DEG C  
 MIN 9.097  
 MAX 13.12  
 MEAN 10.76  
 STD DEV .9069

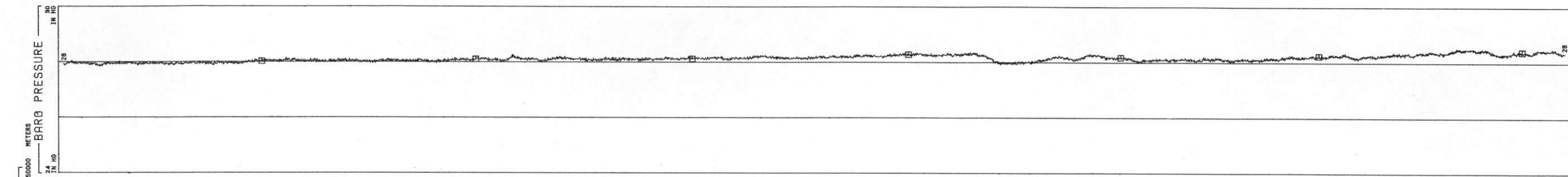
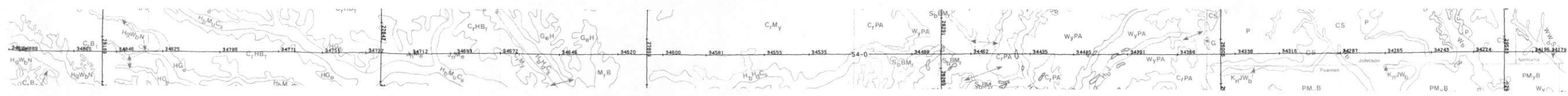
RESIDUAL MAG  
 GAMMAS  
 MIN -1090  
 MAX 1089  
 MEAN -56.18  
 STD DEV 513.8

DIURNAL  
 GAMMAS  
 MIN 57820  
 MAX 57822  
 MEAN 57821  
 STD DEV .4816

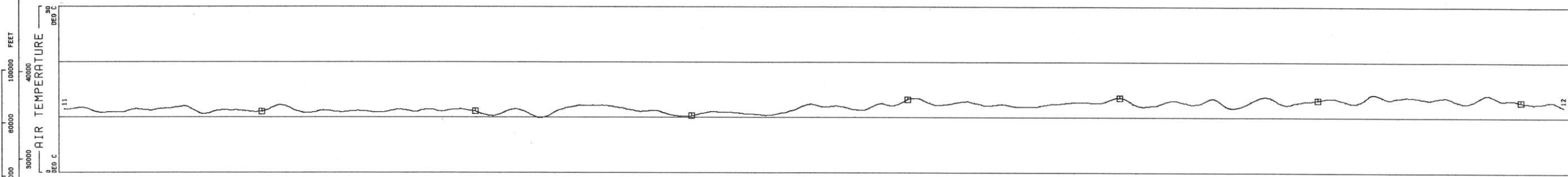
RADAR ALTMTR  
 FEET  
 MIN 289.6  
 MAX 517.9  
 MEAN 409.7  
 STD DEV 96.24



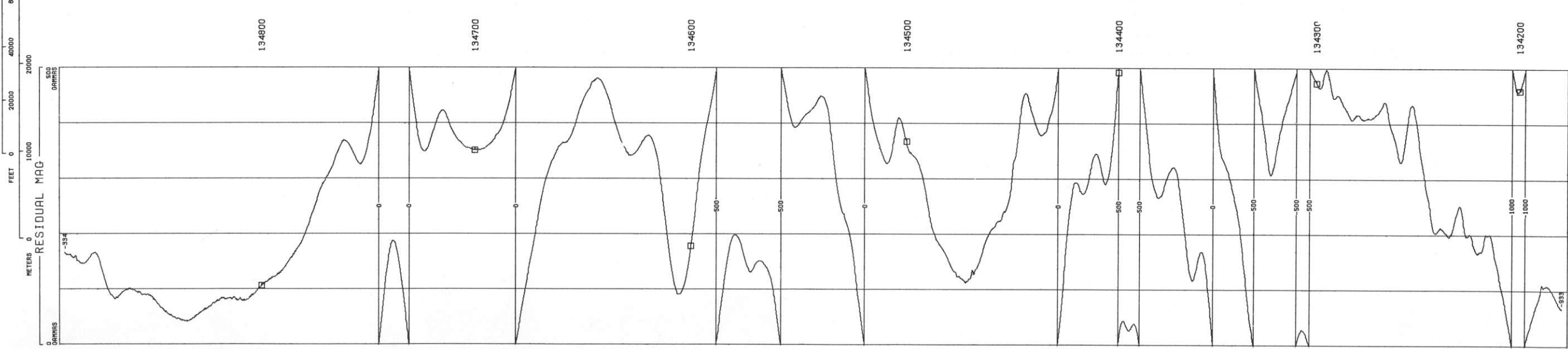
LINE 54  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



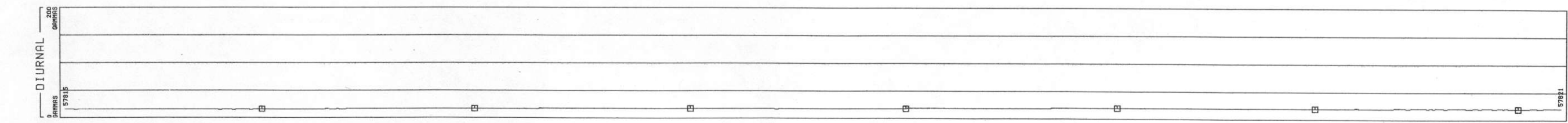
BARO PRESSURE  
 IN HG  
 MIN 27.84  
 MAX 28.53  
 MEAN 28.14  
 STD DEV .1319



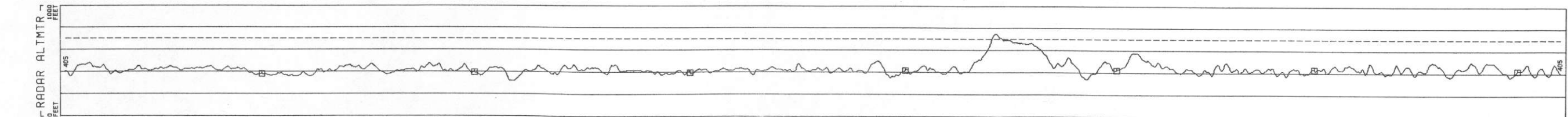
AIR TEMPERATURE  
 DEG C  
 MIN 9.974  
 MAX 14.17  
 MEAN 11.99  
 STD DEV .9480



RESIDUAL MAG  
 GAMMAS  
 MIN -1042  
 MAX 698.7  
 MEAN -147.0  
 STD DEV 421.3



DIURNAL  
 GAMMAS  
 MIN 57815  
 MAX 57821  
 MEAN 57818  
 STD DEV 1.697



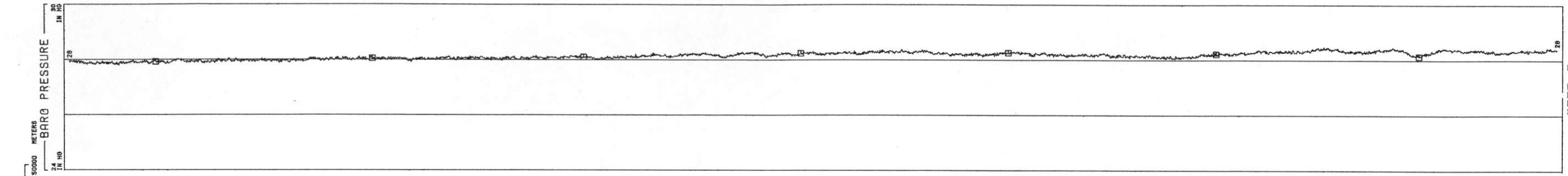
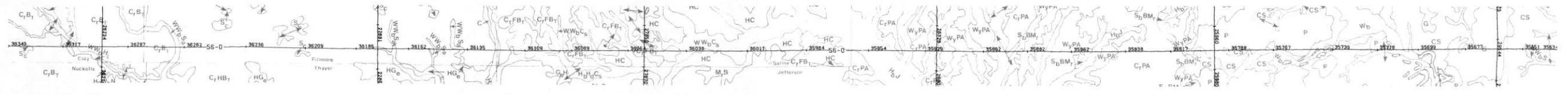
RADAR ALTMTR  
 FEET  
 MIN 320.3  
 MAX 747.7  
 MEAN 435.7  
 STD DEV 59.31



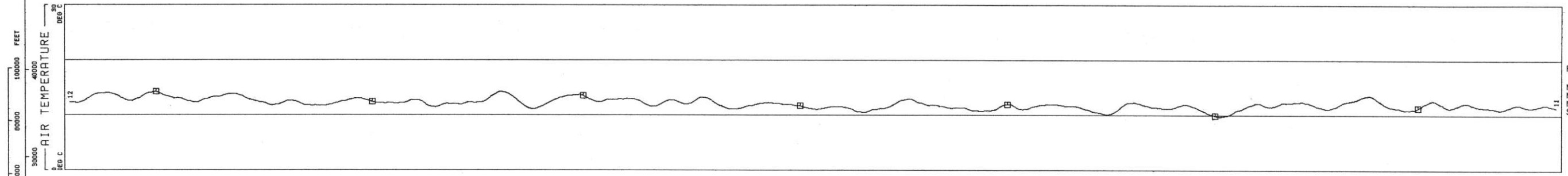




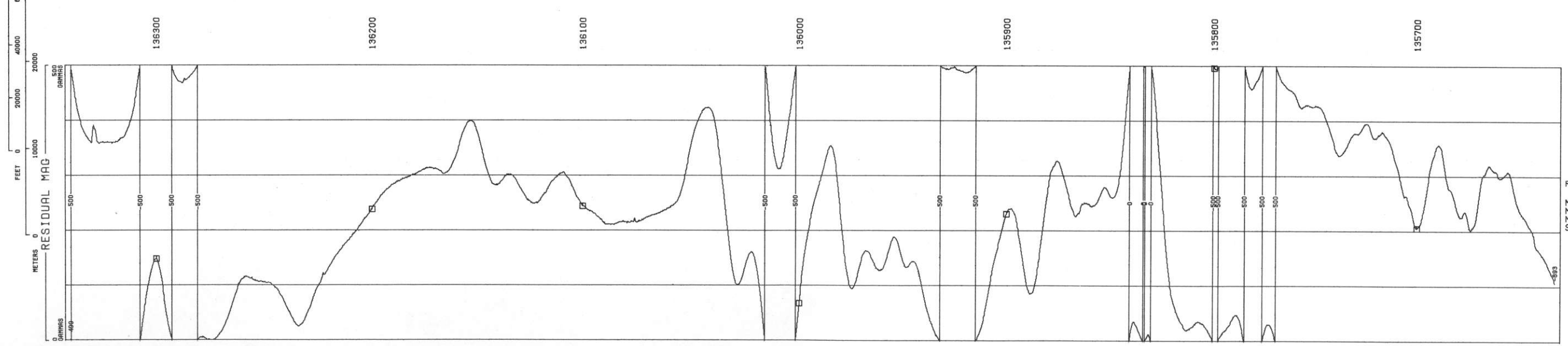
LINE 56  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



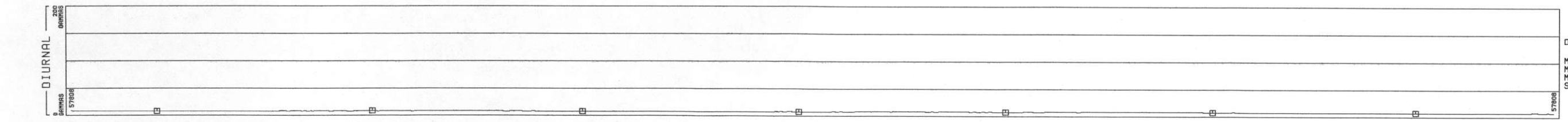
BARO PRESSURE  
 IN HG  
 MIN 27.81  
 MAX 28.49  
 MEAN 28.16  
 STD DEV .1448



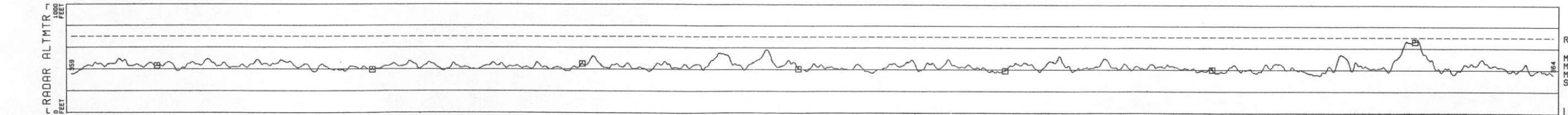
AIR TEMPERATURE  
 DEG C  
 MIN 9.786  
 MAX 14.25  
 MEAN 12.06  
 STD DEV .8707



RESIDUAL MAG  
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 MIN -893.4  
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 MEAN -408.9  
 STD DEV 193.7

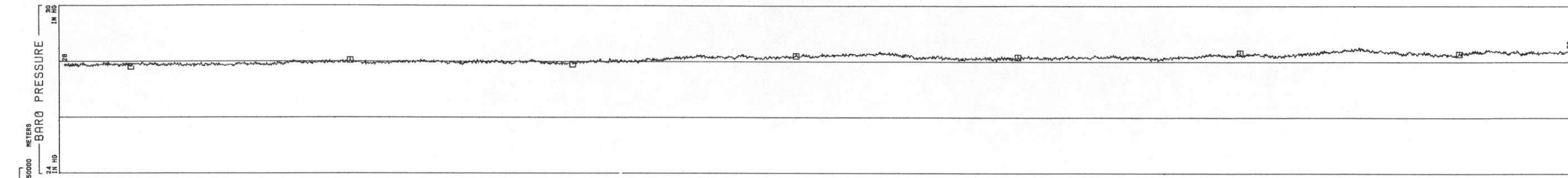
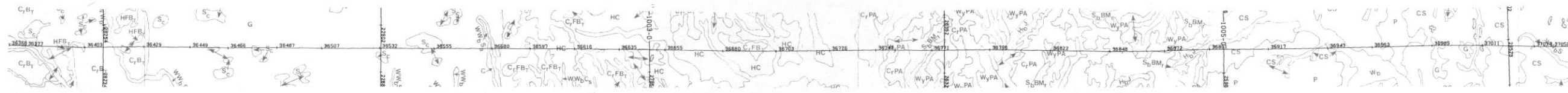


DIURNAL  
 GAMMAS  
 MIN 57807  
 MAX 57809  
 MEAN 57807  
 STD DEV .5354

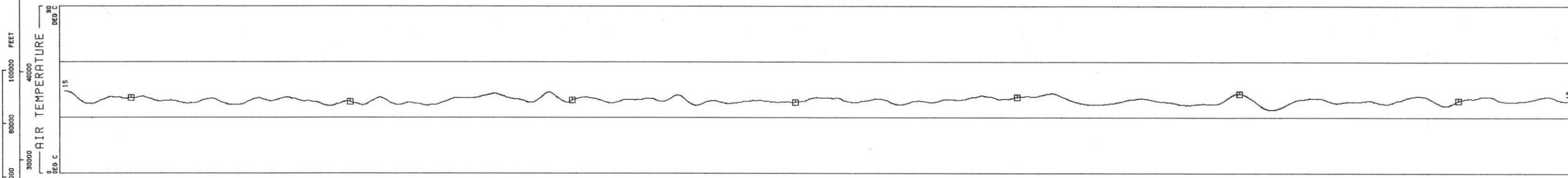


RADAR ALTMTR  
 FEET  
 MIN 352.0  
 MAX 675.1  
 MEAN 493.6  
 STD DEV 43.17

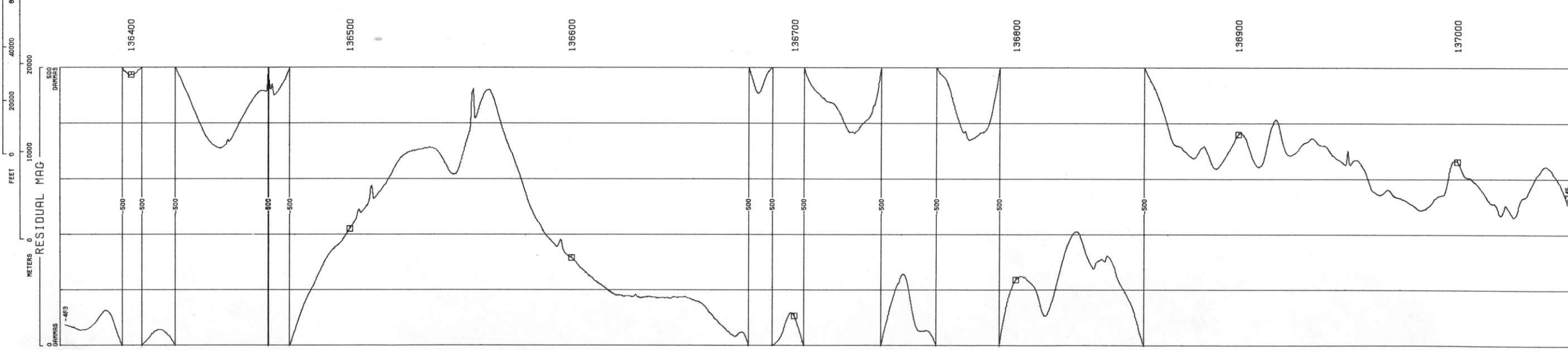
LINE 57  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



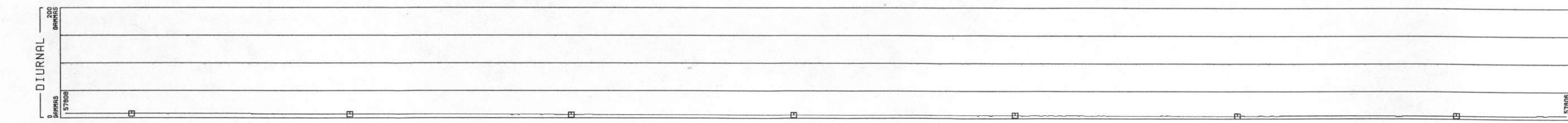
BARO PRESSURE  
 IN HG  
 MIN 27.81  
 MAX 28.54  
 MEAN 28.12  
 STD DEV .1610



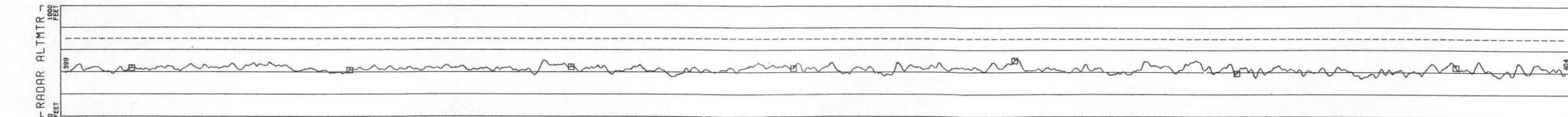
AIR TEMPERATURE  
 DEG C  
 MIN 11.40  
 MAX 14.79  
 MEAN 13.10  
 STD DEV .5345



RESIDUAL MAG  
 GAMMAS  
 MIN -768.3  
 MAX -37.87  
 MEAN -487.6  
 STD DEV 171.5



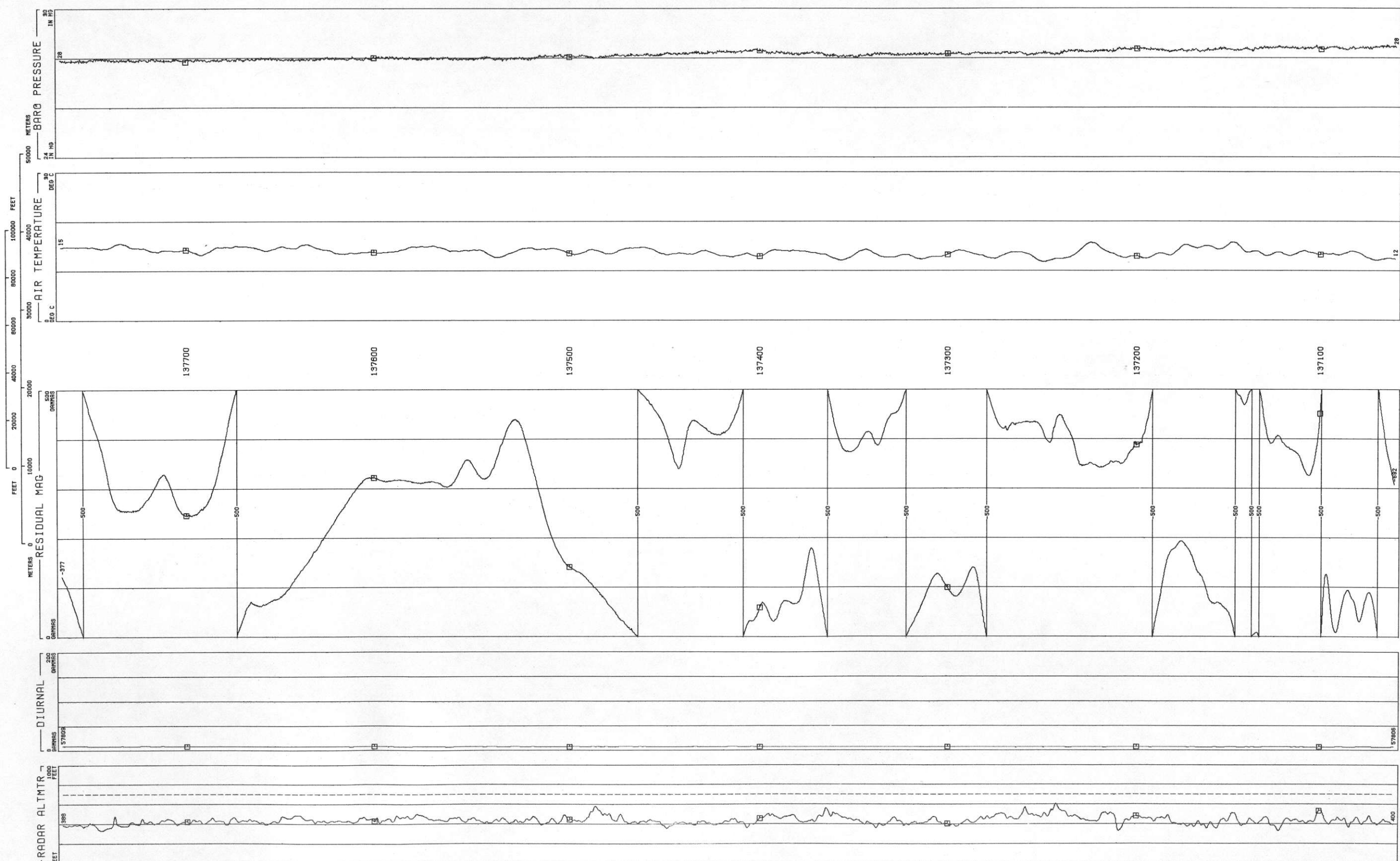
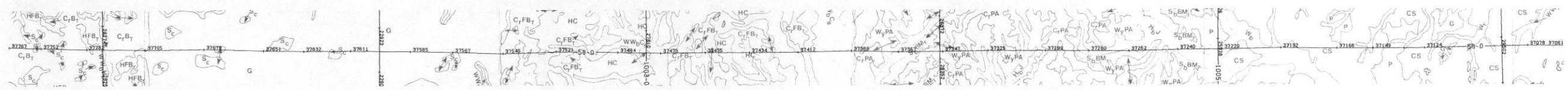
DIURNAL  
 GAMMAS  
 MIN 57804  
 MAX 57808  
 MEAN 57805  
 STD DEV .9508



RADAR ALTMTR  
 FEET  
 MIN 344.4  
 MAX 522.2  
 MEAN 429.9  
 STD DEV 28.34



LINE 58  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



BARO PRESSURE  
 IN HG  
 MIN 27.89  
 MAX 28.53  
 MEAN 28.14  
 STD DEV .1688

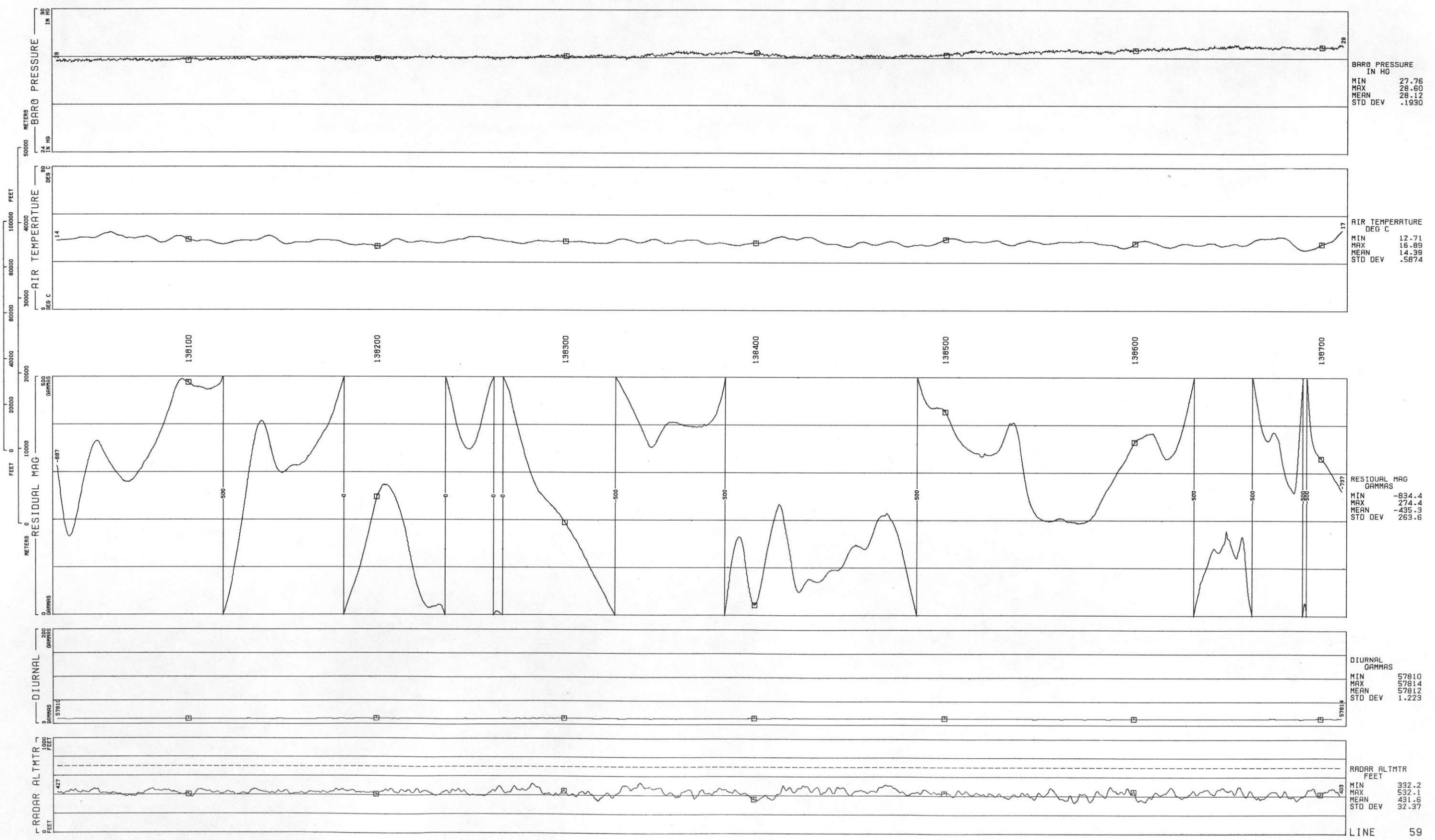
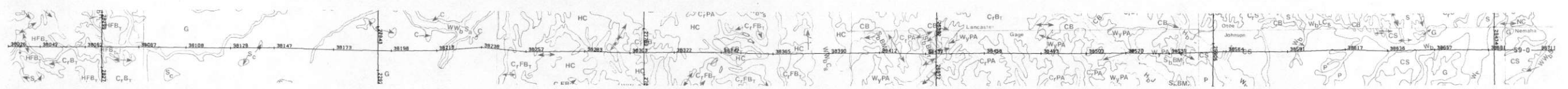
AIR TEMPERATURE  
 DEG C  
 MIN 11.84  
 MAX 15.80  
 MEAN 13.82  
 STD DEV .8016

RESIDUAL MAG  
 GAMMAS  
 MIN -754.1  
 MAX -59.73  
 MEAN -465.3  
 STD DEV 167.0

DIURNAL  
 GAMMAS  
 MIN 57805  
 MAX 57809  
 MEAN 57807  
 STD DEV .7092

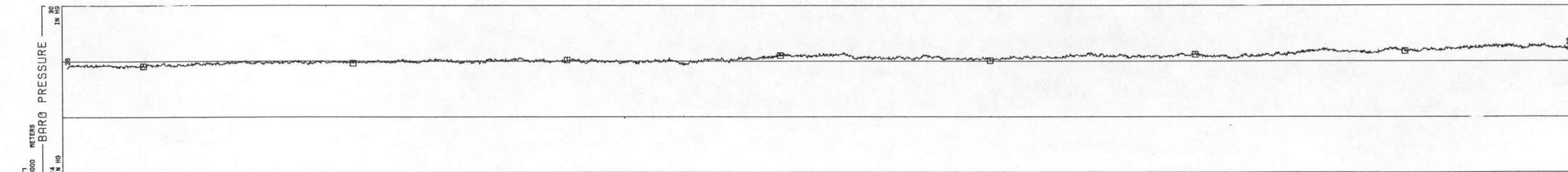
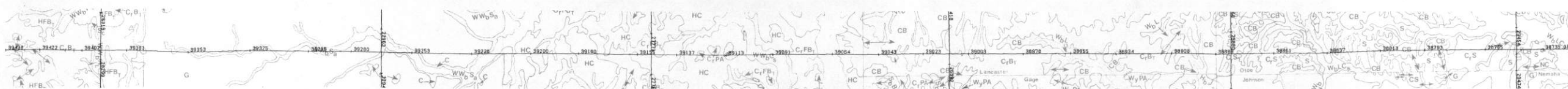
RADAR ALTMTR  
 FEET  
 MIN 390.4  
 MAX 607.1  
 MEAN 437.8  
 STD DEV 99.61

LINE 59  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976

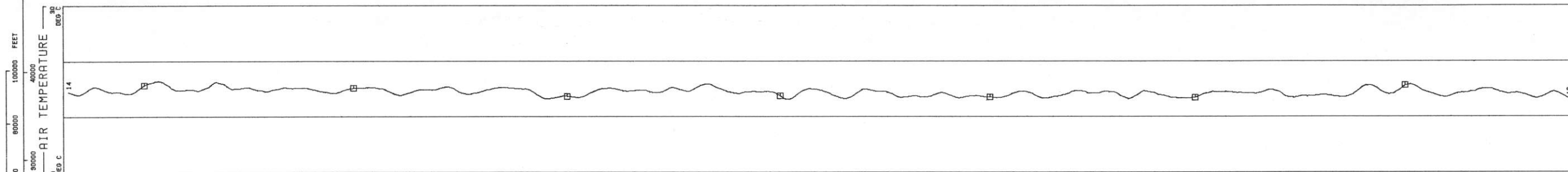




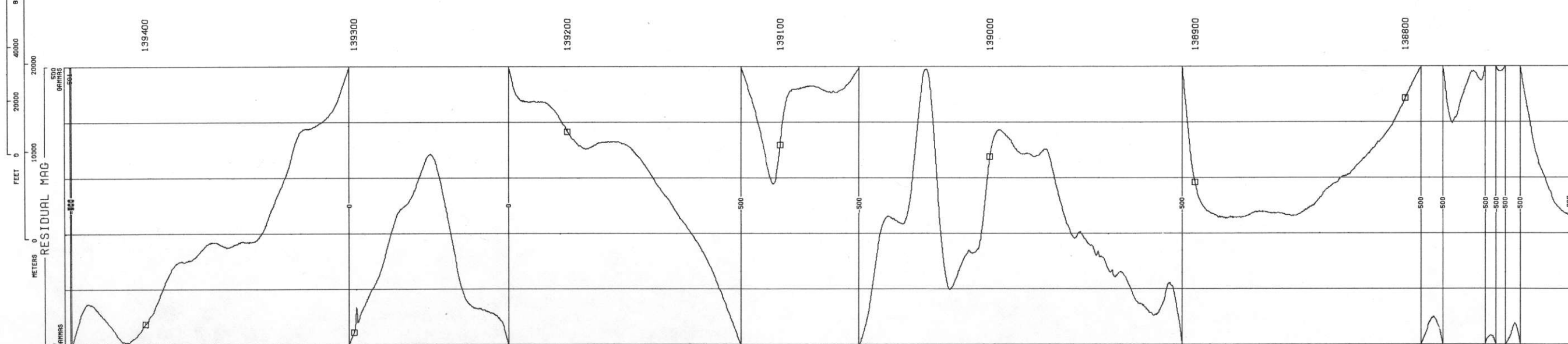
LINE 60  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



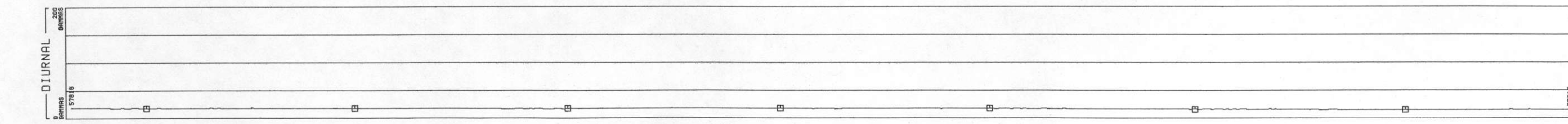
BARO PRESSURE  
 IN HG  
 MIN 27.77  
 MAX 28.63  
 MEAN 28.13  
 STD DEV .1891



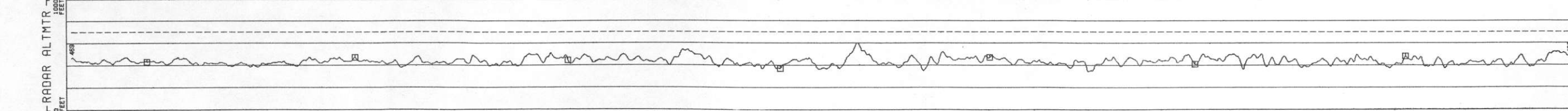
AIR TEMPERATURE  
 DEG C  
 MIN 13.14  
 MAX 16.41  
 MEAN 14.43  
 STD DEV .6549



RESIDUAL MAG  
 GAMMAS  
 MIN -772.1  
 MAX 343.5  
 MEAN -349.5  
 STD DEV 267.4

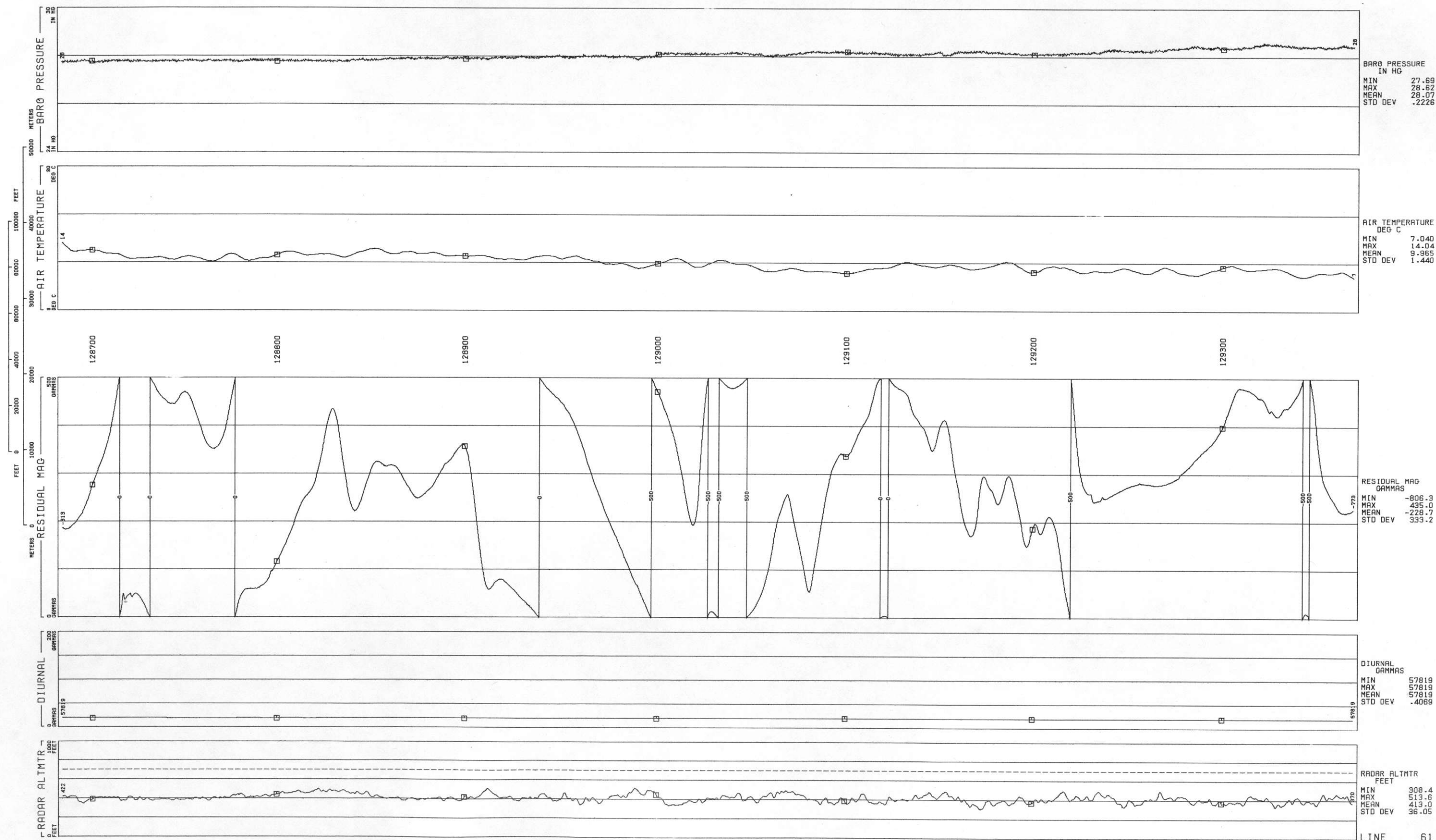
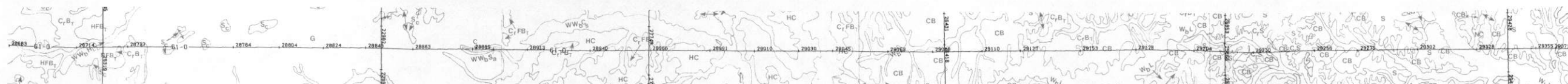


DIURNAL  
 GAMMAS  
 MIN 5781.4  
 MAX 5781.8  
 MEAN 5781.6  
 STD DEV 1.197



RADAR ALTMTR  
 FEET  
 MIN 347.4  
 MAX 604.5  
 MEAN 439.3  
 STD DEV 33.85

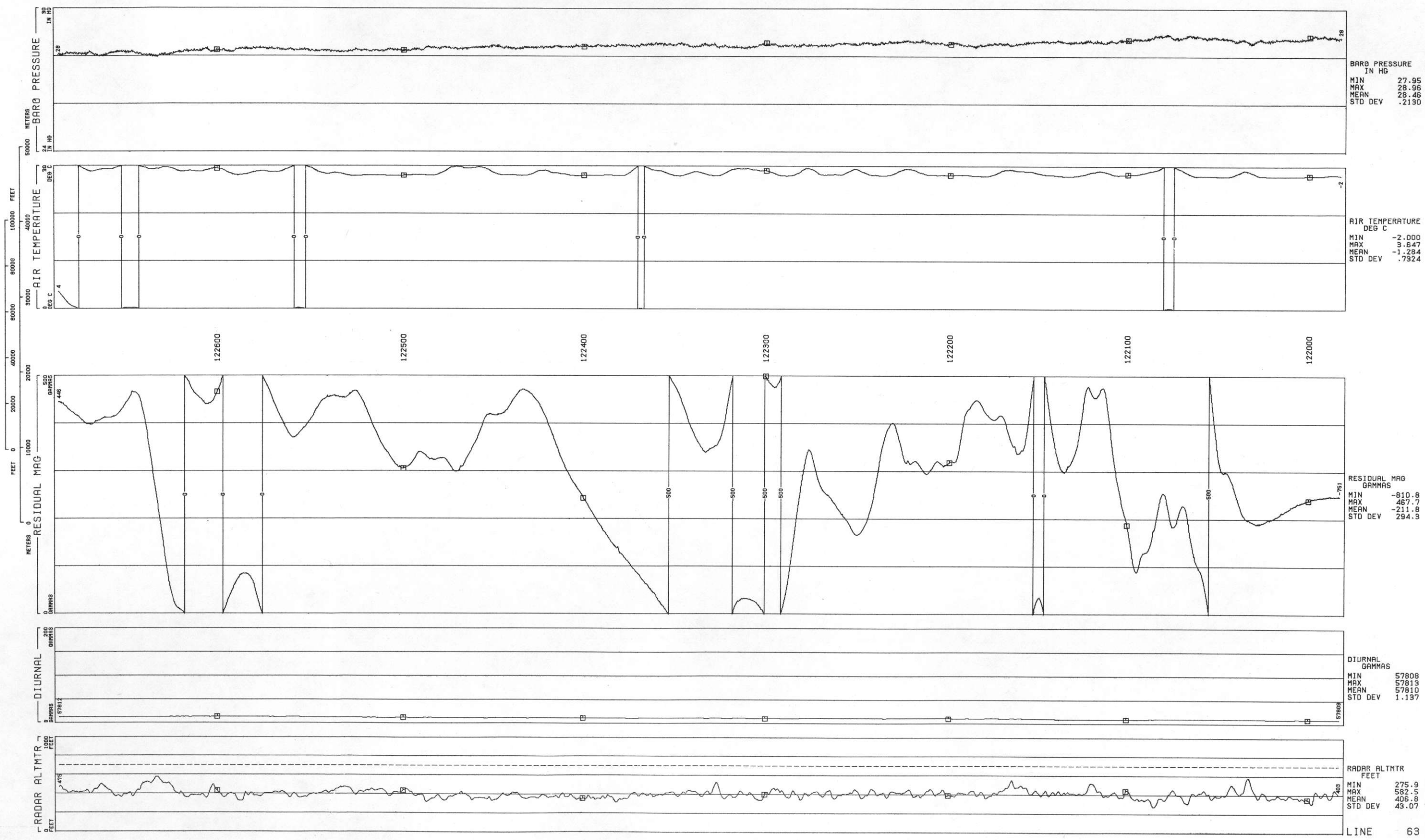
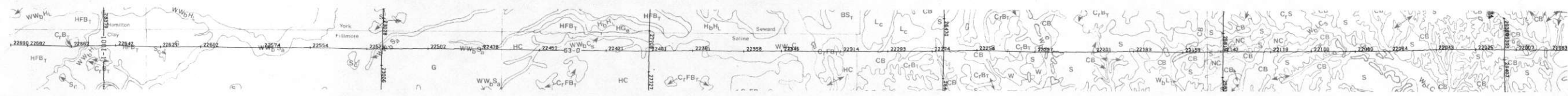
LINE 61  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976





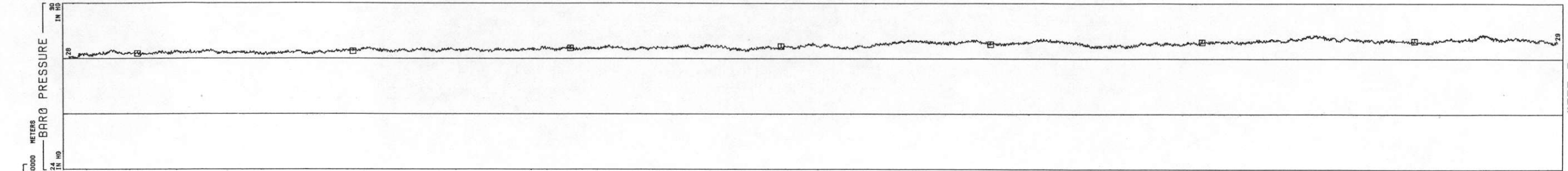


LINE 63  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976

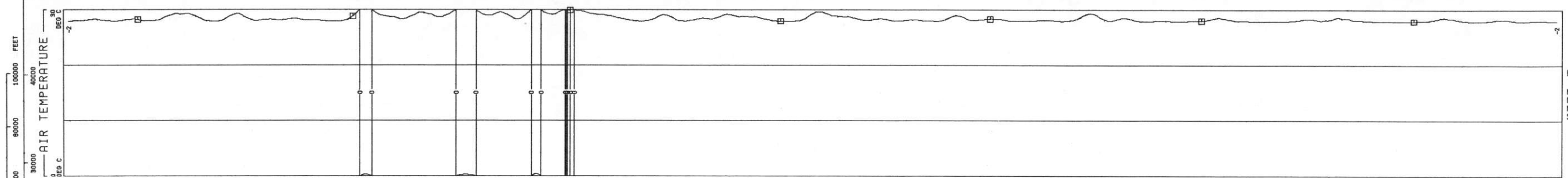




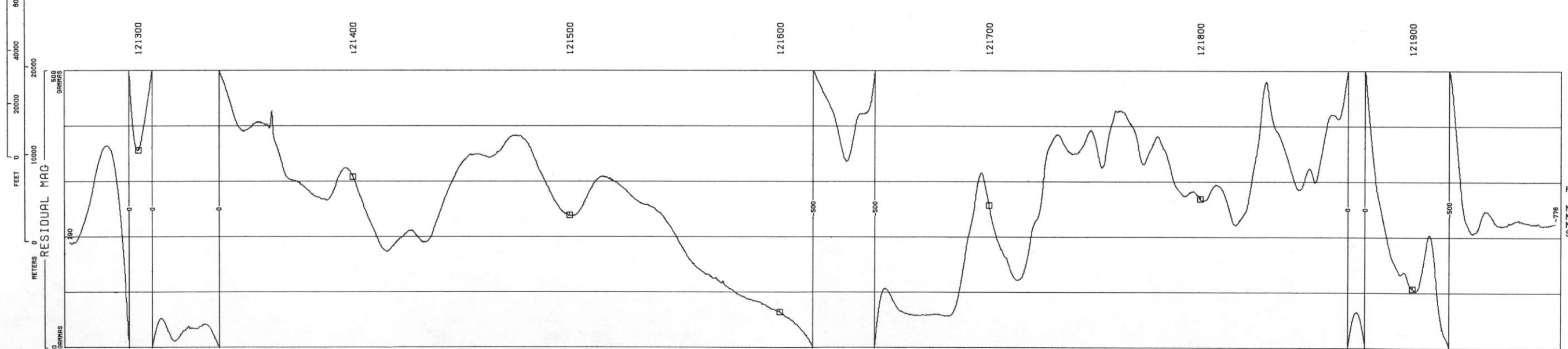
LINE 64  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



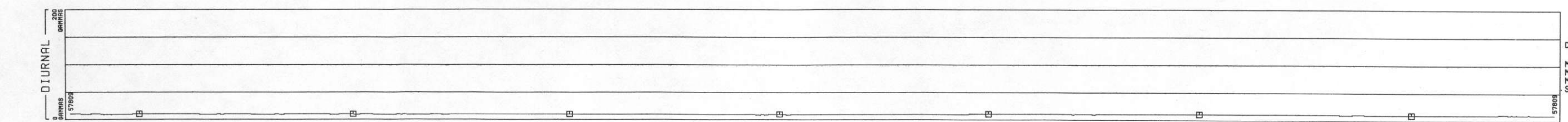
BARO PRESSURE  
 IN HG  
 MIN 28.00  
 MAX 28.88  
 MEAN 28.46  
 STD DEV .1818



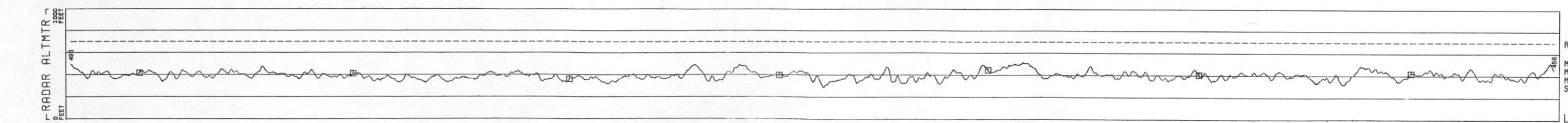
AIR TEMPERATURE  
 DEG C  
 MIN -2.000  
 MAX -.4537  
 MEAN -1.512  
 STD DEV .5807



RESIDUAL MAG  
 GAMMAS  
 MIN -793.2  
 MAX 384.2  
 MEAN -258.3  
 STD DEV 222.1

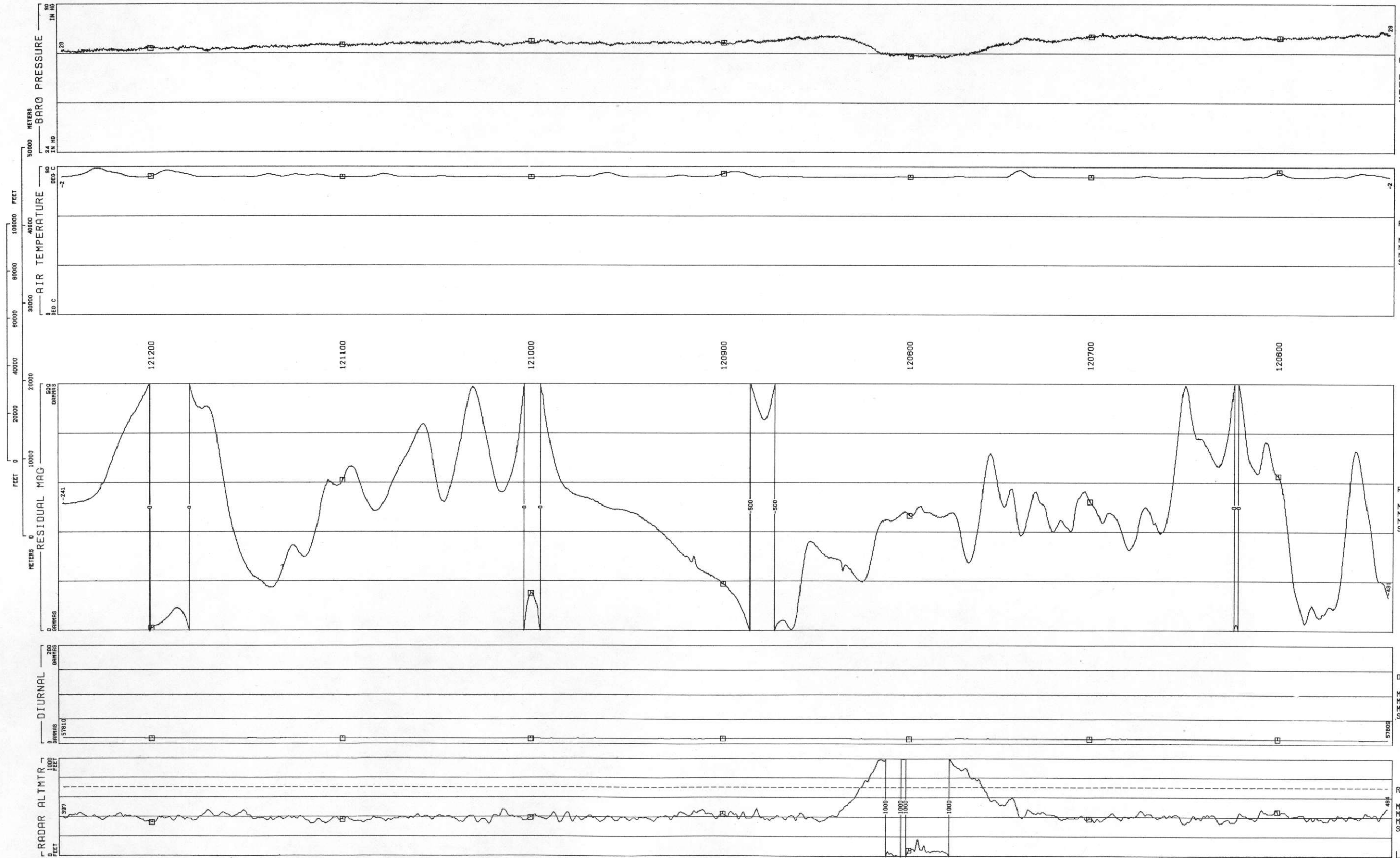
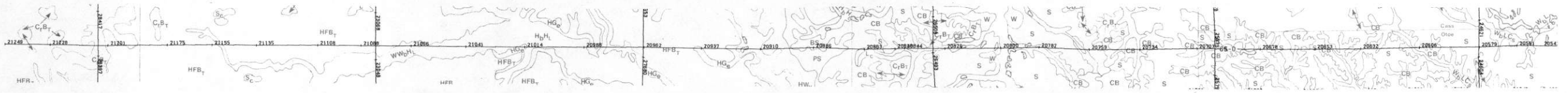


DIURNAL  
 GAMMAS  
 MIN 57808  
 MAX 57811  
 MEAN 57809  
 STD DEV .7122



RADAR ALTMTR  
 FEET  
 MIN 294.1  
 MAX 315.5  
 MEAN 298.7  
 STD DEV 36.71

LINE 65  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



BARO PRESSURE  
 IN HG  
 MIN 27.82  
 MAX 28.93  
 MEAN 28.42  
 STD DEV .2911

AIR TEMPERATURE  
 DEG C  
 MIN -2.000  
 MAX -.2284  
 MEAN -1.809  
 STD DEV .3948

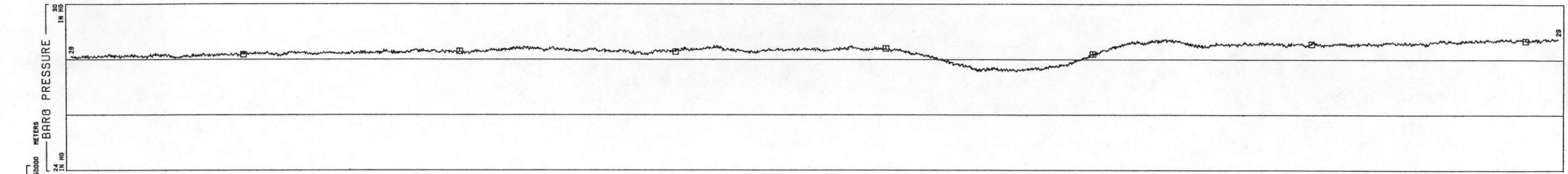
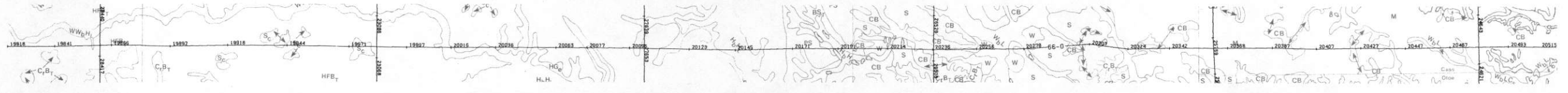
RESIDUAL MAG  
 GAMMAS  
 MIN -572.7  
 MAX 75.89  
 MEAN -245.3  
 STD DEV 130.7

DIURNAL  
 GAMMAS  
 MIN 57809  
 MAX 57811  
 MEAN 57809  
 STD DEV .6199

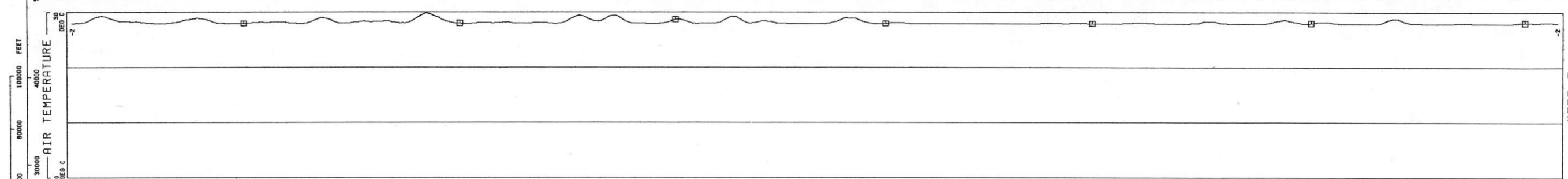
RADAR ALTMTR  
 FEET  
 MIN 329.0  
 MAX 1174  
 MEAN 459.6  
 STD DEV 170.6



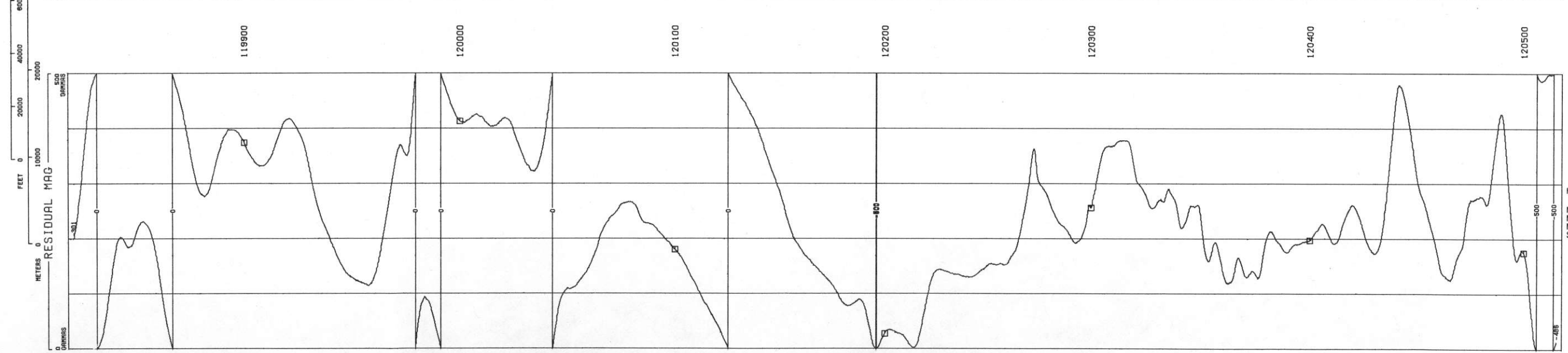
LINE 66  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



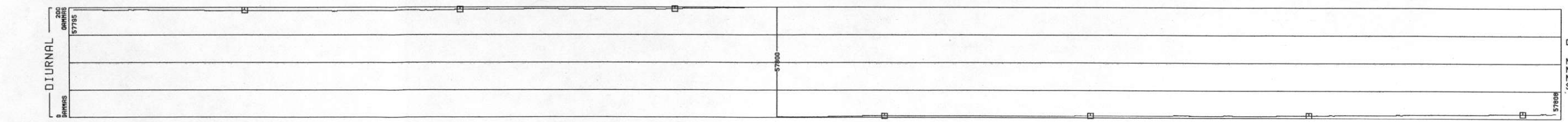
BARO PRESSURE  
 IN HG  
 MIN 27.58  
 MAX 28.79  
 MEAN 28.32  
 STD DEV .2611



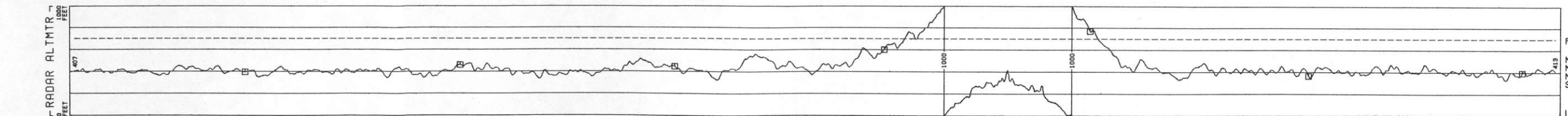
AIR TEMPERATURE  
 DEG C  
 MIN -2.000  
 MAX -1.1548  
 MEAN -1.770  
 STD DEV .3539



RESIDUAL MAG  
 GAMMAS  
 MIN -513.4  
 MAX 267.3  
 MEAN -176.4  
 STD DEV 193.8

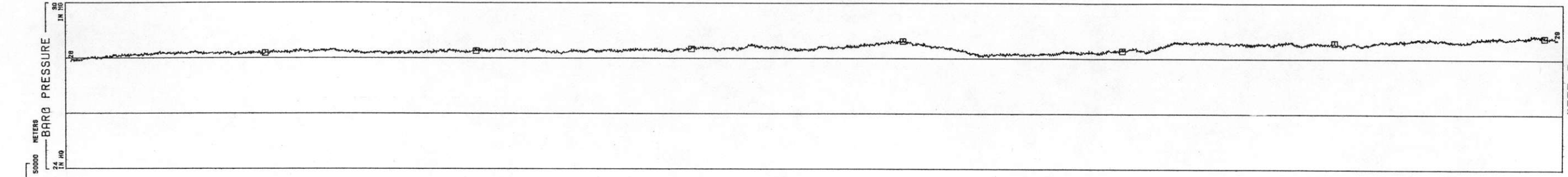
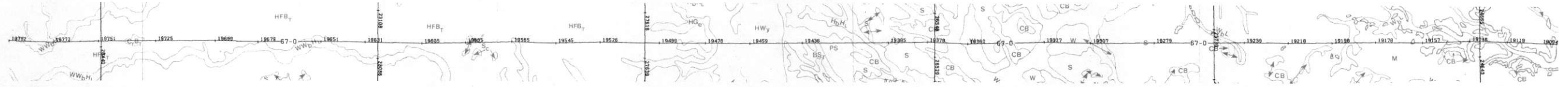


DIURNAL  
 GAMMAS  
 MIN 57793  
 MAX 57808  
 MEAN 57800  
 STD DEV 4.656

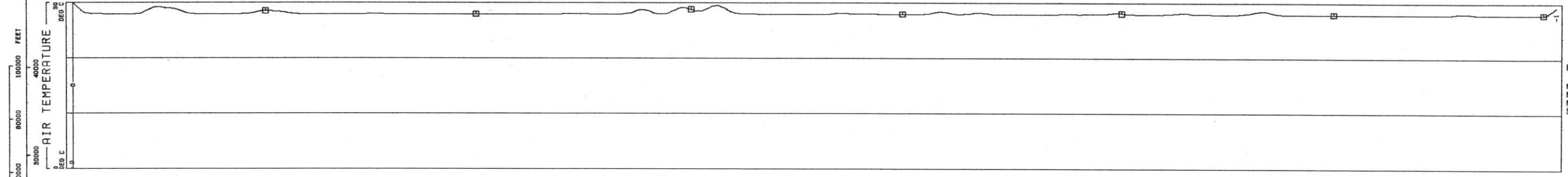


RADAR ALTMTR  
 FEET  
 MIN 326.3  
 MAX 1415  
 MEAN 513.2  
 STD DEV 239.8

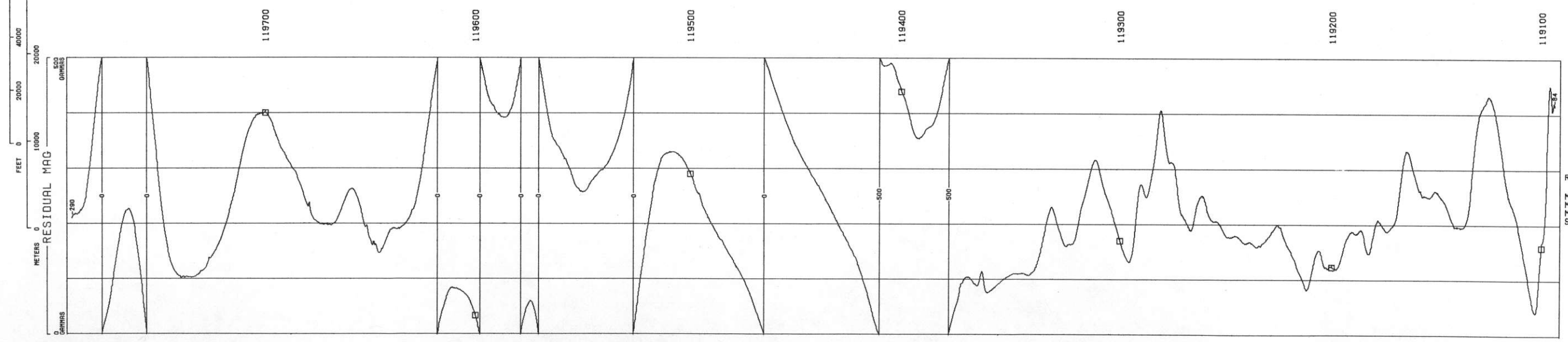
LINE 67  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



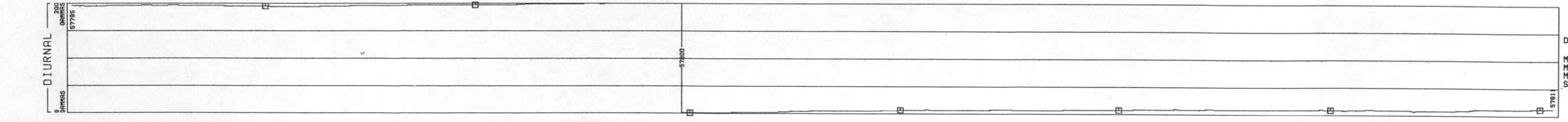
BARO PRESSURE  
 IN HG  
 MIN 27.88  
 MAX 28.89  
 MEAN 28.36  
 STD DEV .1956



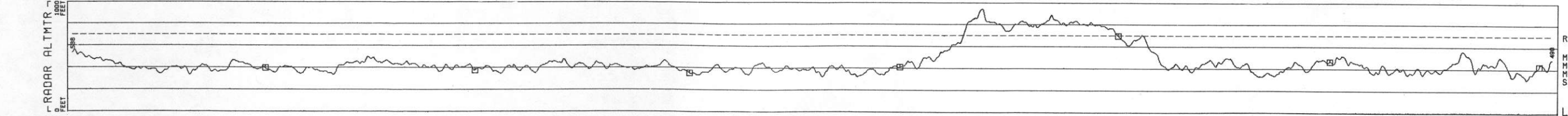
AIR TEMPERATURE  
 DEG C  
 MIN -2.000  
 MAX -1.2478  
 MEAN -1.870  
 STD DEV .2961



RESIDUAL MAG  
 GAMMAS  
 MIN -645.7  
 MAX 330.5  
 MEAN -212.0  
 STD DEV 198.9



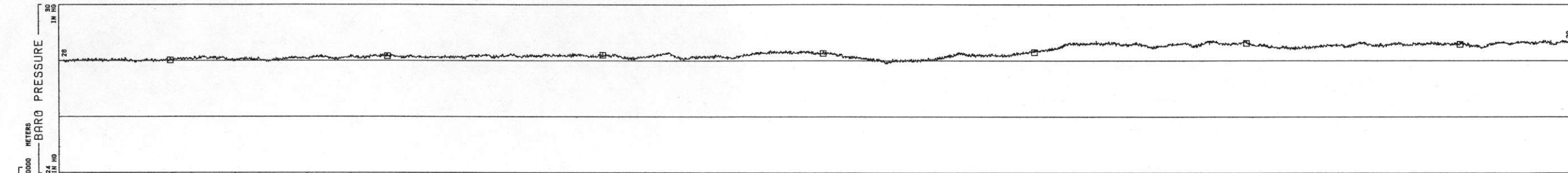
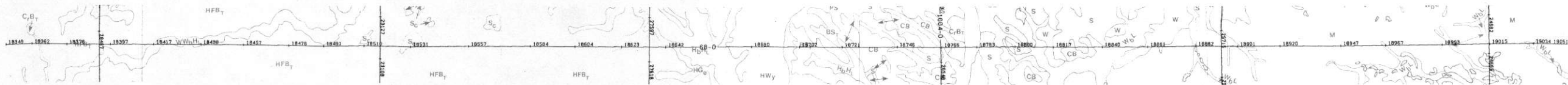
DIURNAL  
 GAMMAS  
 MIN 57794  
 MAX 57811  
 MEAN 57802  
 STD DEV 5.726



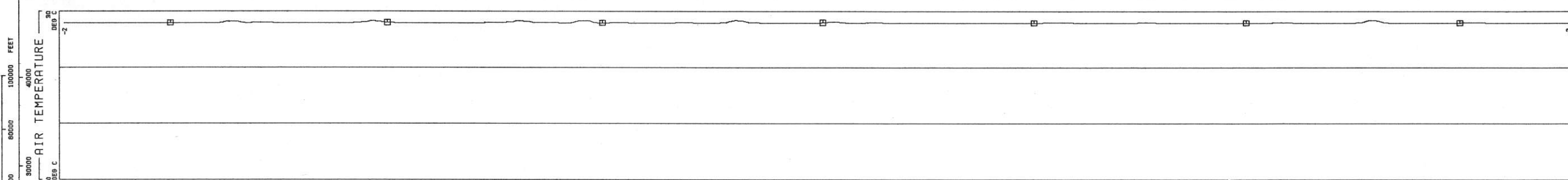
RADAR ALTMTR  
 FEET  
 MIN 308.7  
 MAX 944.9  
 MEAN 460.7  
 STD DEV 131.4



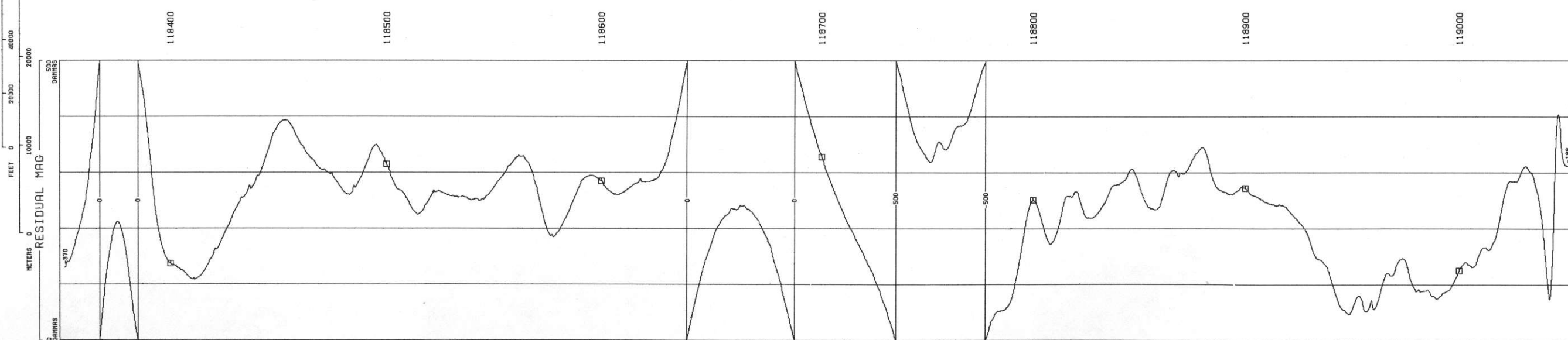
LINE 68  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



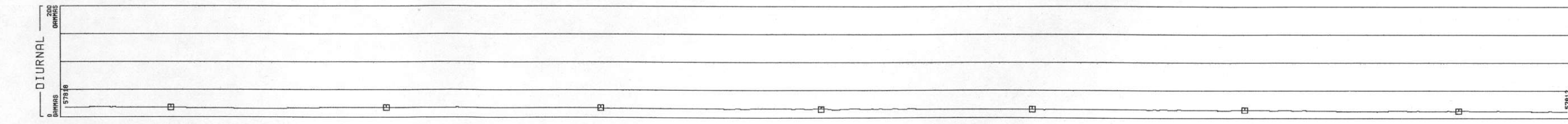
BARO PRESSURE  
 IN HG  
 MIN 27.91  
 MAX 28.74  
 MEAN 28.29  
 STD DEV .2279



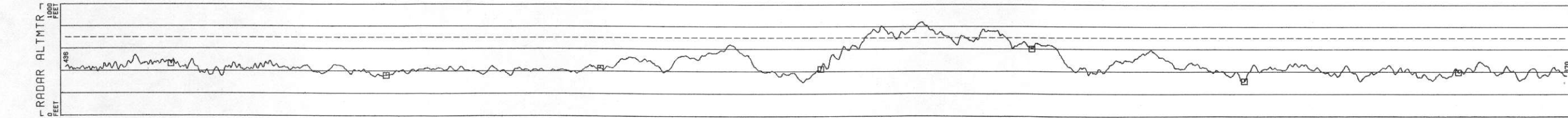
AIR TEMPERATURE  
 DEG C  
 MIN -2.000  
 MAX -1.576  
 MEAN -1.972  
 STD DEV .0793



RESIDUAL MAG  
 GAMMAS  
 MIN -681.0  
 MAX 241.8  
 MEAN -246.7  
 STD DEV 178.2

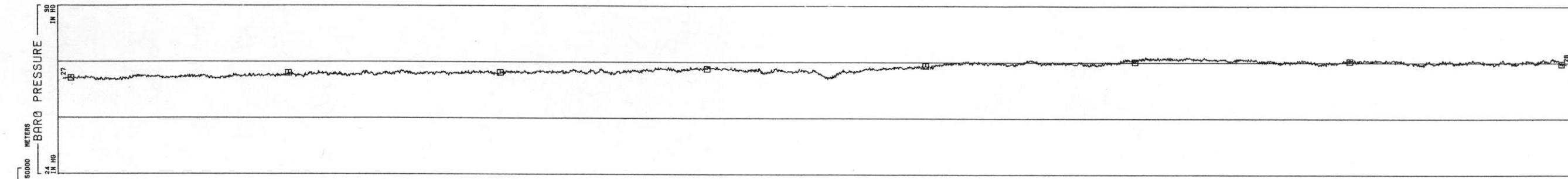
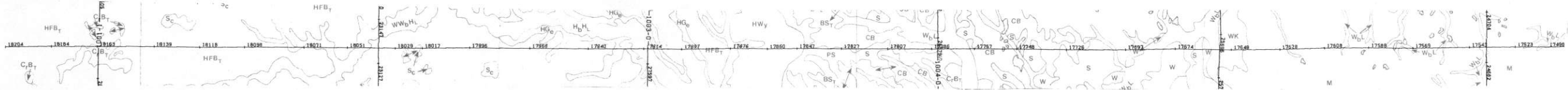


DIURNAL  
 GAMMAS  
 MIN 5781.2  
 MAX 5781.8  
 MEAN 5781.5  
 STD DEV 1.755

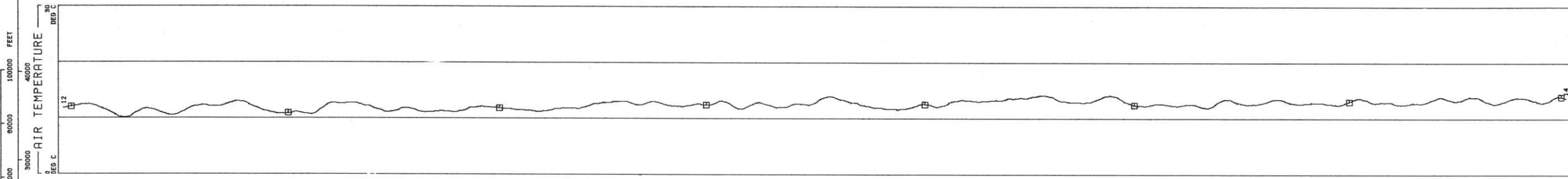


RADAR ALTMTR  
 FEET  
 MIN 308.1  
 MAX 844.4  
 MEAN 472.5  
 STD DEV 112.1

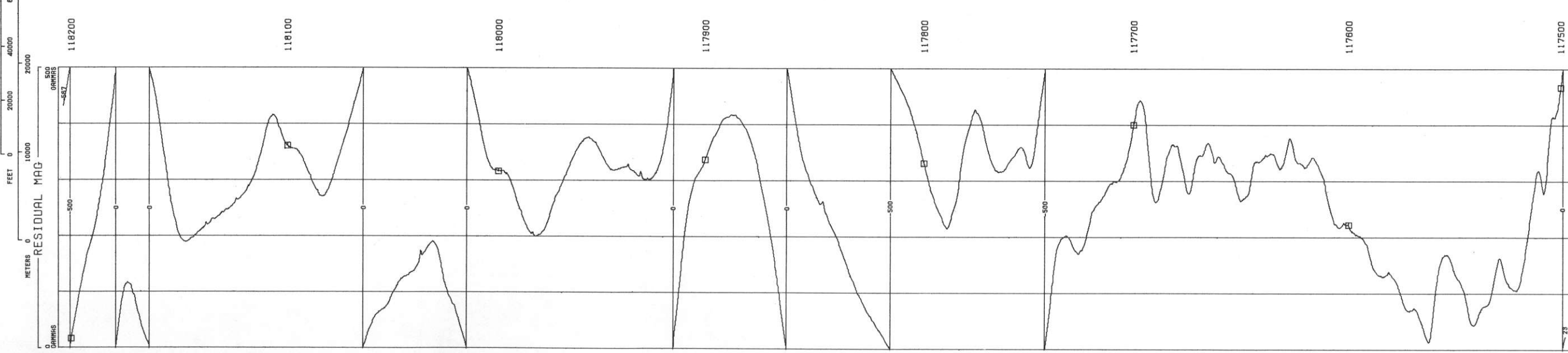
LINE 69  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



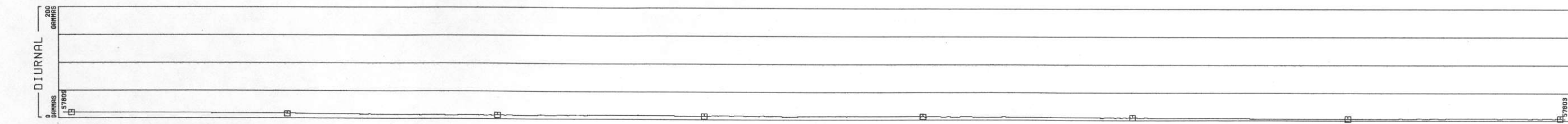
BARO PRESSURE  
 IN HG  
 MIN 27.35  
 MAX 28.20  
 MEAN 27.79  
 STD DEV .2254



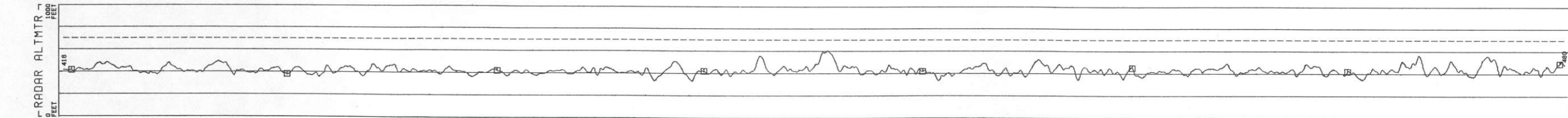
AIR TEMPERATURE  
 DEG C  
 MIN 10.14  
 MAX 14.19  
 MEAN 12.47  
 STD DEV .8915



RESIDUAL MAG  
 GAMMAS  
 MIN -784.1  
 MAX 417.7  
 MEAN -209.8  
 STD DEV 240.4



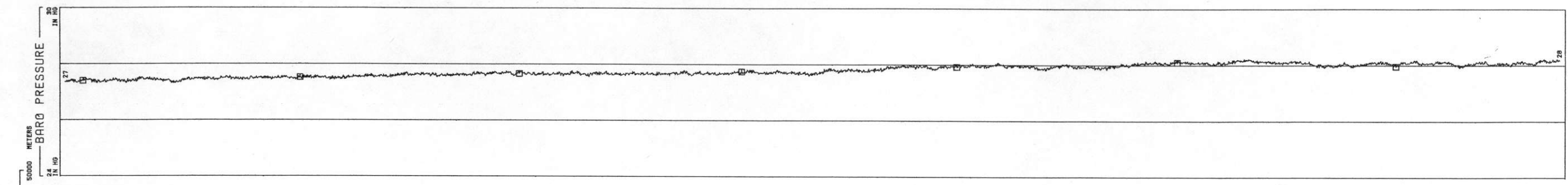
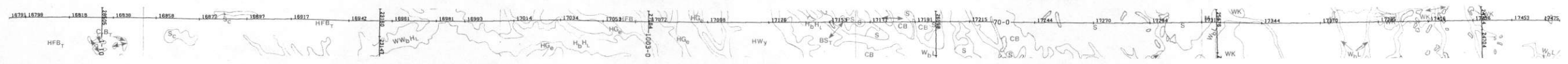
DIURNAL  
 GAMMAS  
 MIN 57802  
 MAX 57810  
 MEAN 57805  
 STD DEV 2.090



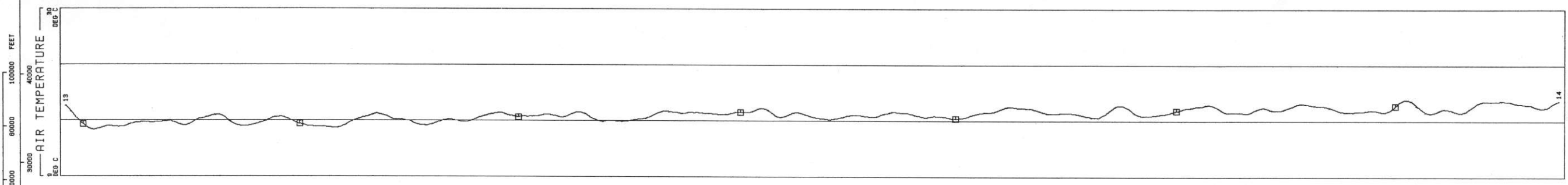
RADAR ALTMTR  
 FEET  
 MIN 399.7  
 MAX 607.7  
 MEAN 427.6  
 STD DEV 37.18



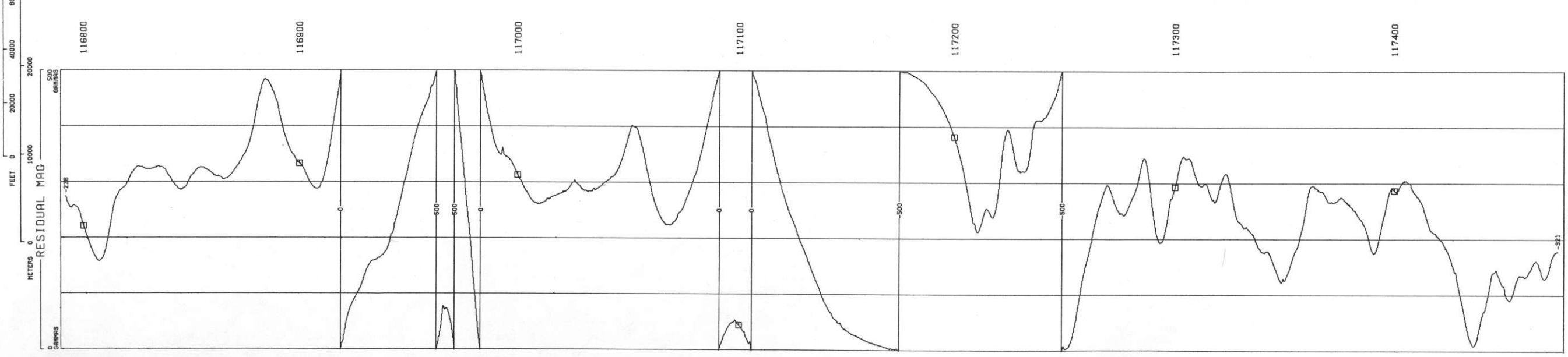
LINE 70  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



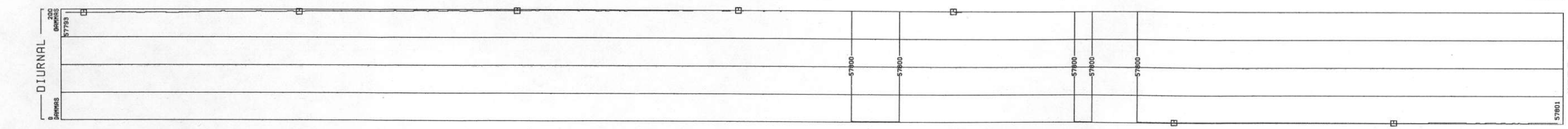
BARO PRESSURE  
 IN HG  
 MIN 27.93  
 MAX 28.23  
 MEAN 27.80  
 STD DEV .2380



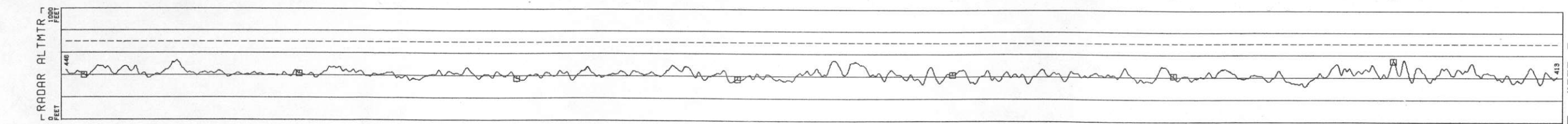
AIR TEMPERATURE  
 DEG C  
 MIN 8.386  
 MAX 19.87  
 MEAN 11.12  
 STD DEV 1.165



RESIDUAL MAG  
 GAMMAS  
 MIN -788.0  
 MAX 577.6  
 MEAN -234.2  
 STD DEV 235.7

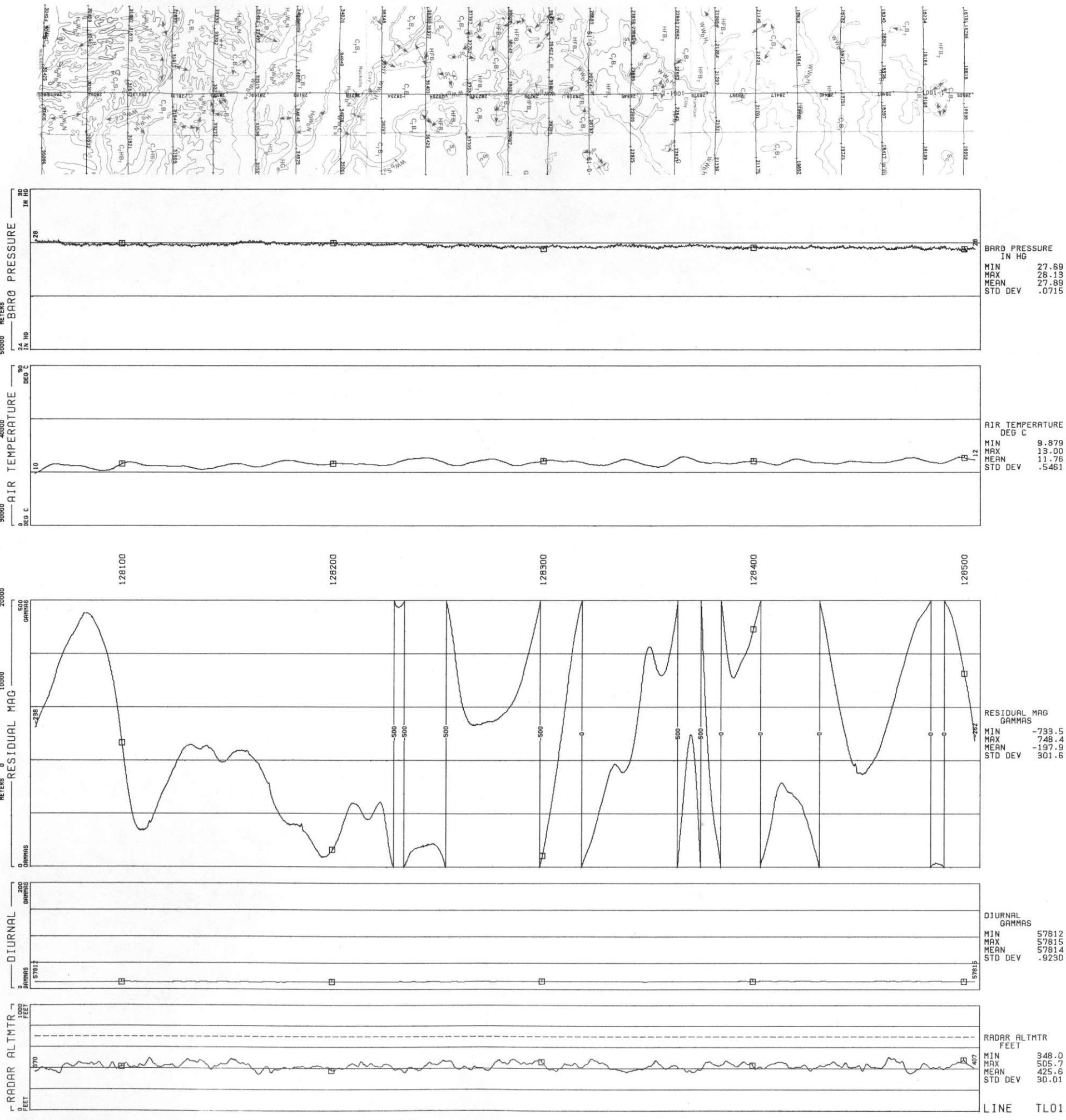


DIURNAL  
 GAMMAS  
 MIN 57793  
 MAX 57802  
 MEAN 57798  
 STD DEV 2.162



RADAR ALTMTR  
 FEET  
 MIN 320.4  
 MAX 559.6  
 MEAN 420.7  
 STD DEV 38.28

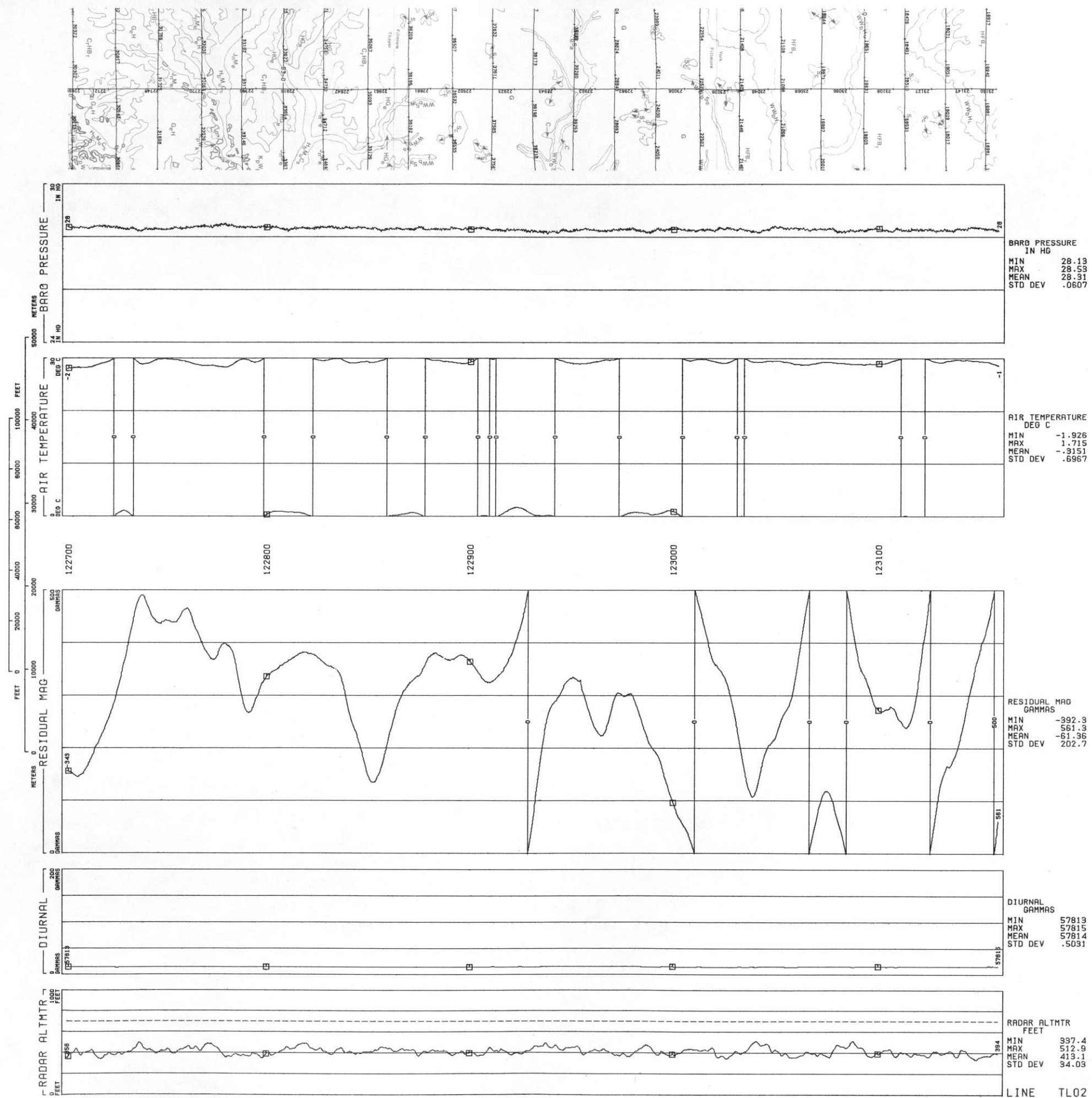
LINE TLO1  
 EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 DATA ACQUIRED 1976



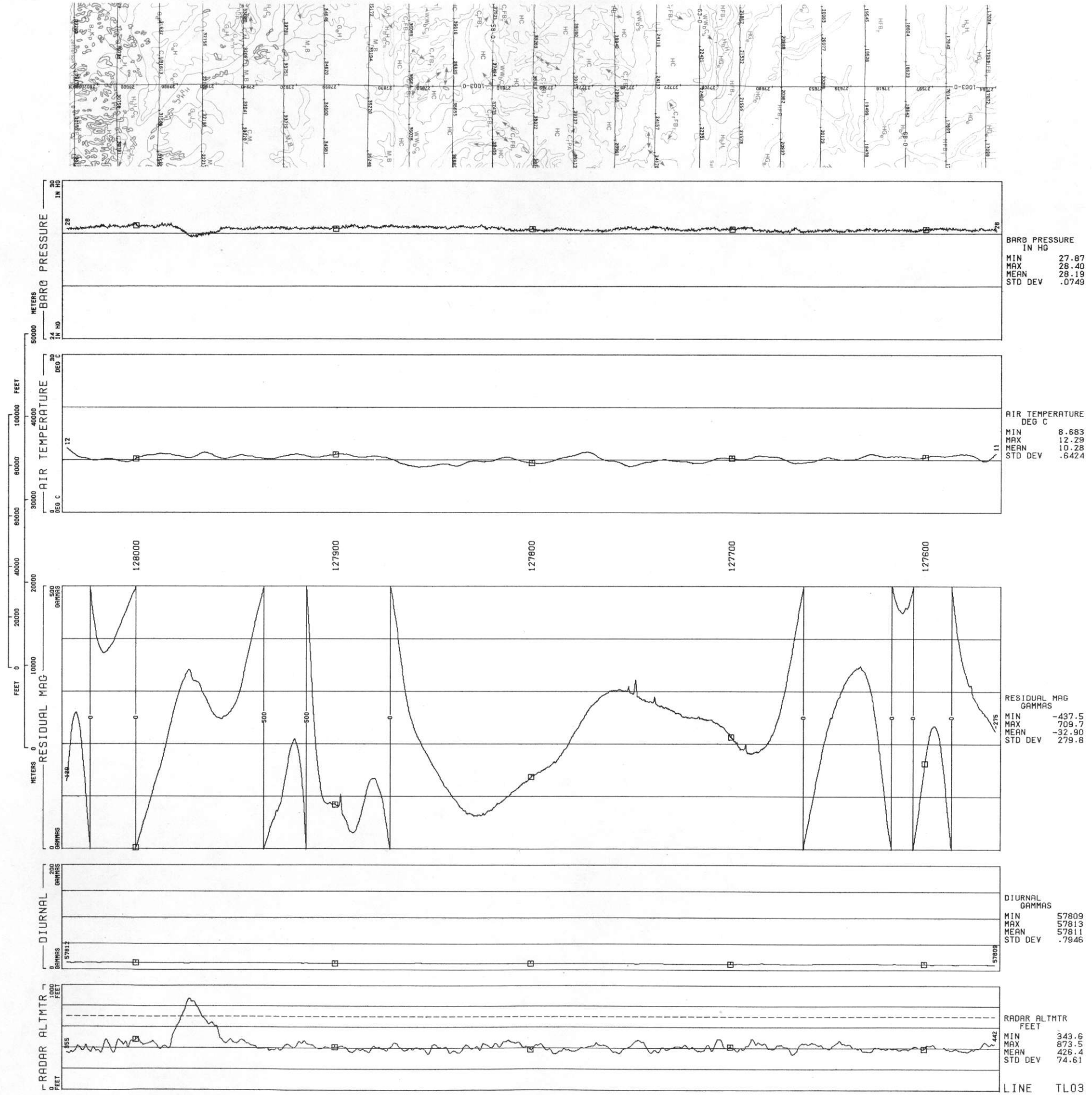
LINE TLO1



EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 LINE TLO2  
 DATA ACQUIRED 1976



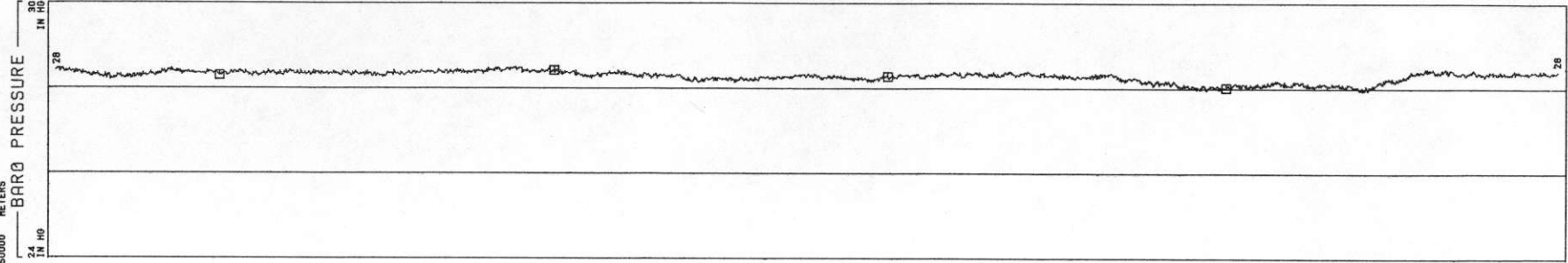
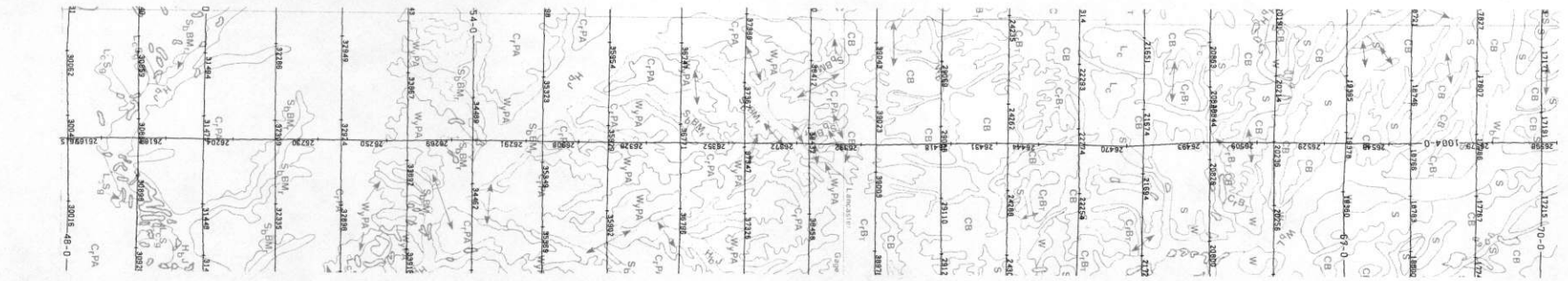
EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 LINE TL03  
 DATA ACQUIRED 1976



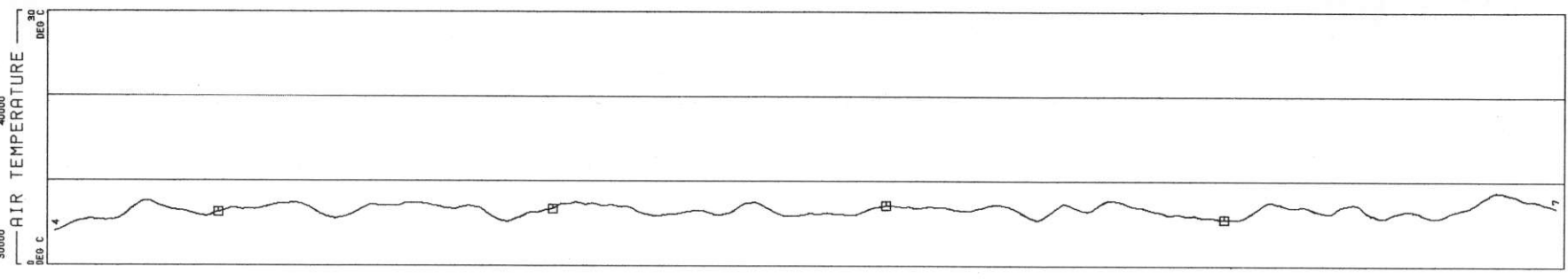
LINE TL03



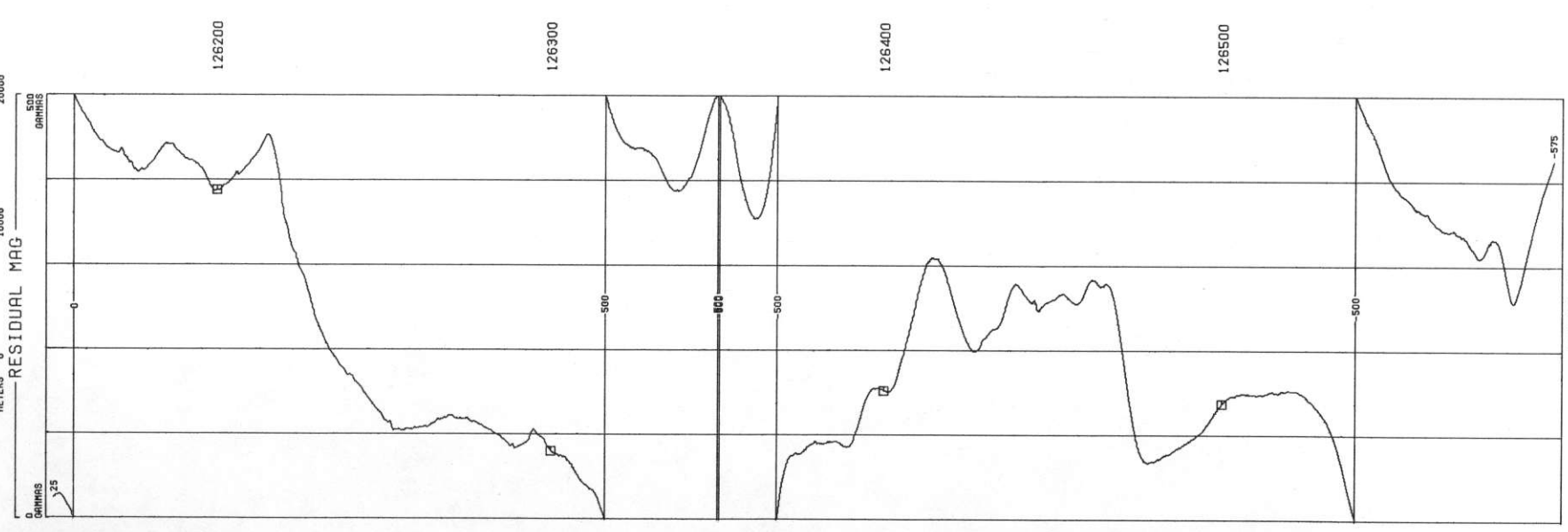
EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 LINE TL04  
 DATA ACQUIRED 1976



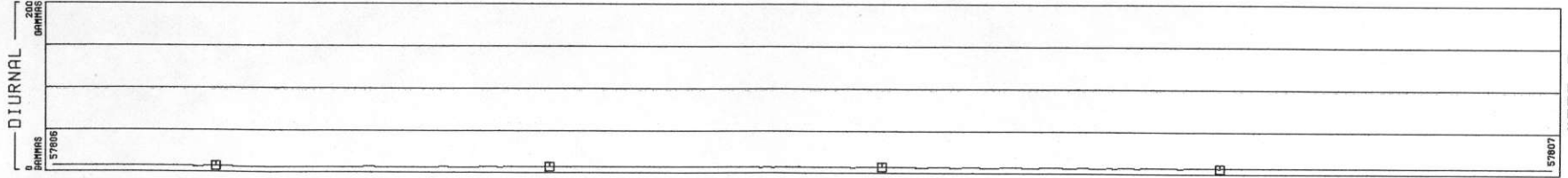
BARO PRESSURE  
 IN HG  
 MIN 27.94  
 MAX 28.51  
 MEAN 28.29  
 STD DEV .1129



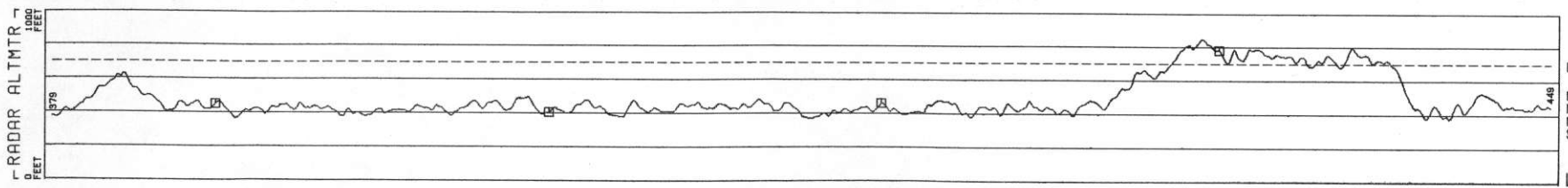
AIR TEMPERATURE  
 DEG C  
 MIN 4.056  
 MAX 8.806  
 MEAN 6.635  
 STD DEV .7103



RESIDUAL MAG  
 GAMMAS  
 MIN -742.7  
 MAX 28.68  
 MEAN -367.2  
 STD DEV 182.4



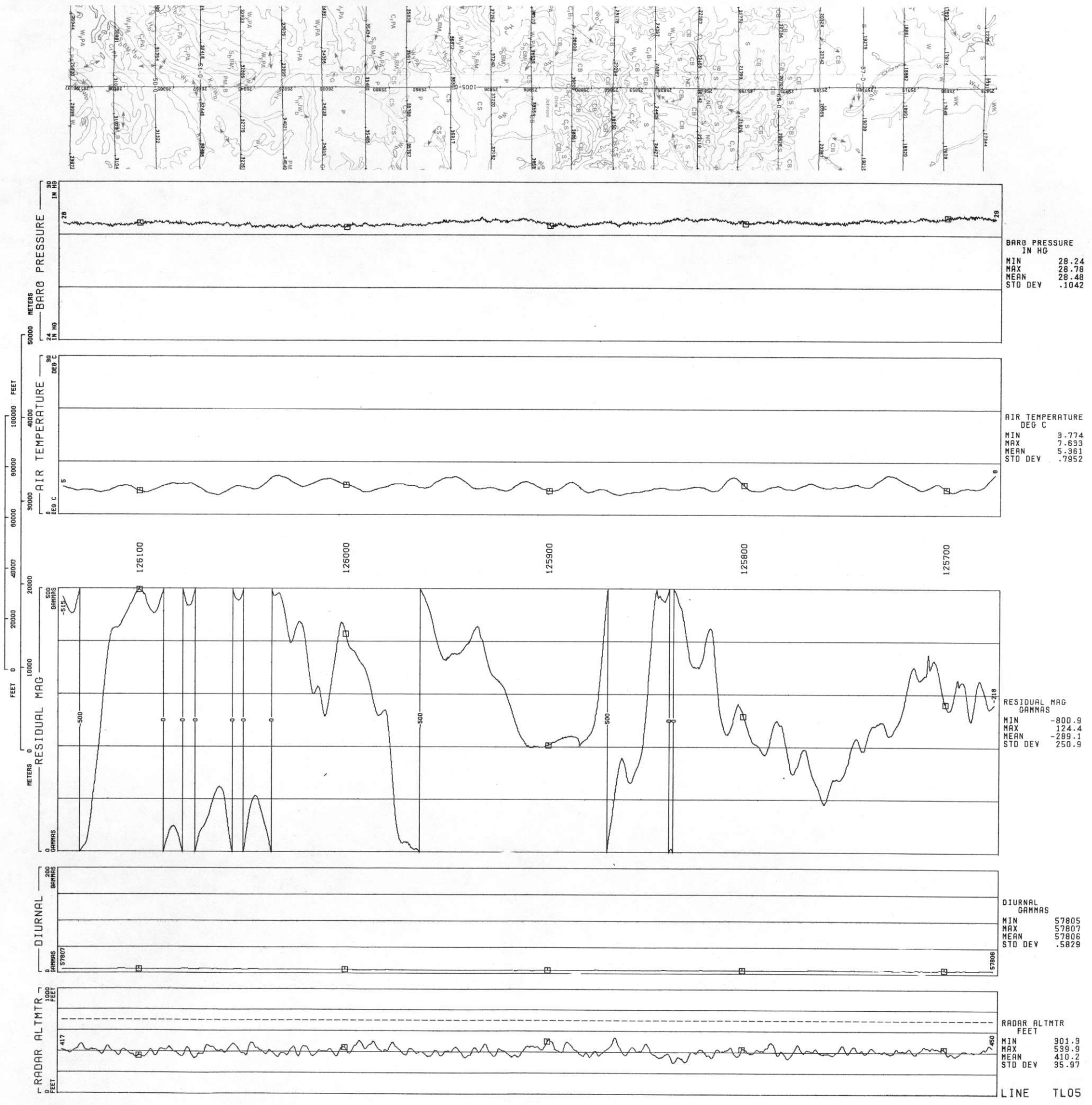
DIURNAL  
 GAMMAS  
 MIN 57805  
 MAX 57807  
 MEAN 57806  
 STD DEV .3374



RADAR ALTMTR  
 FEET  
 MIN 369.7  
 MAX 648.5  
 MEAN 492.8  
 STD DEV 120.3

LINE TL04

EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 LINE TL05  
 DATA ACQUIRED 1976



BARO PRESSURE  
 IN HG  
 MIN 28.24  
 MAX 28.78  
 MEAN 28.48  
 STD DEV .1042

AIR TEMPERATURE  
 DEG C  
 MIN 3.774  
 MAX 7.633  
 MEAN 5.361  
 STD DEV .7952

RESIDUAL MAG  
 GAMMAS  
 MIN -800.9  
 MAX 124.4  
 MEAN -289.1  
 STD DEV 250.9

DIURNAL  
 GAMMAS  
 MIN 5780.5  
 MAX 5780.7  
 MEAN 5780.6  
 STD DEV .5829

RADAR ALTMTR  
 FEET  
 MIN 301.3  
 MAX 599.9  
 MEAN 410.2  
 STD DEV 95.97

LINE TL05



EAST SALINA BASIN - LINCOLN - NTMS NK 14-12 - GEOMETRICS  
 LINE TL06  
 DATA ACQUIRED 1976

