**AERIAL GAMMA RAY AND MAGNETIC SURVEY
VAN HORN AND PECOS QUADRANGLES, TEXAS**

**FINAL REPORT
VOLUME IIa**

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BIG BEND AREA - VAN LINE 1 HORN - NTMS NH 13-2 - GEOMETRICS DATA ACQUIRED 1977

BARO PRESSURE
 IN HG
 MIN 24.09
 MAX 26.18
 MEAN 25.37
 STD DEV .3676

AIR TEMPERATURE
 DEG C
 MIN 12.31
 MAX 14.29
 MEAN 13.41
 STD DEV .3129

RESIDUAL MAG
 GAMMAS
 MIN -490.3
 MAX -9.117
 MEAN -276.1
 STD DEV 92.30

DIURNAL
 GAMMAS
 MIN 51148
 MAX 51151
 MEAN 51150
 STD DEV .5754

RADAR ALTMTR
 FEET
 MIN 262.2
 MAX 1172
 MEAN 519.4
 STD DEV 154.2

LINE 1

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BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
2
DATA ACQUIRED 1977

BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS LINE 3 DATA ACQUIRED 1977

LINE 4
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

5
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 6 BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS DATA ACQUIRED 1977

BARO PRESSURE
 IN HG
 MIN 23.73
 MAX 26.50
 MEAN 25.43
 STD DEV .6802

AIR TEMPERATURE
 DEG C
 MIN 8.249
 MAX 13.59
 MEAN 10.93
 STD DEV 1.185

RESIDUAL MAG
 GAMMAS
 MIN -680.7
 MAX 63.80
 MEAN -253.0
 STD DEV 105.3

DIURNAL
 GAMMAS
 MIN 51163
 MAX 51183
 MEAN 51173
 STD DEV 9.869

RADAR ALTMTR
 FEET
 MIN 105.5
 MAX 1491
 MEAN 513.9
 STD DEV 202.3

7
LINE - NTMS NH 13-2 - GEOMETRICS
BIG BEND AREA - VAN HORN - DATA ACQUIRED 1977

LINE 8
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 9
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BARO PRESSURE IN HG	MIN 23.72 MAX 26.44 MEAN 25.45 STD DEV .5996
AIR TEMPERATURE DEG C	MIN 8.807 MAX 17.45 MEAN 11.27 STD DEV 1.751
RESIDUAL MAG GAMMAS	MIN -410.6 MAX -54.27 MEAN -252.5 STD DEV 94.92
DIURNAL GAMMAS	MIN 51165 MAX 51170 MEAN 51168 STD DEV 1.023
RADAR ALTMTR FEET	MIN 203.3 MAX 2550 MEAN 522.8 STD DEV 374.4

LINE 10 HORN - NTMS NH 13-2 - GEOMETRICS DATA ACQUIRED 1977

BARO PRESSURE
 IN HG
 MIN 23.46
 MAX 26.50
 MEAN 25.38
 STD DEV .6195

AIR TEMPERATURE
 DEG C
 MIN 8.249
 MAX 17.57
 MEAN 11.35
 STD DEV 1.824

RESIDUAL MAG
 GAMMAS
 MIN -422.3
 MAX -28.21
 MEAN -223.7
 STD DEV 116.9

DIURNAL
 GAMMAS
 MIN 51164
 MAX 51171
 MEAN 51169
 STD DEV 1.569

RADAR ALTMTR
 FEET
 MIN 268.4
 MAX 2617
 MEAN 566.6
 STD DEV 449.9

11
LINE
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BARO PRESSURE
IN HG
MIN 28.04
MAX 28.42
MEAN 28.16
STD DEV .7548

AIR TEMPERATURE
DEG C
MIN 9.427
MAX 14.70
MEAN 11.89
STD DEV 1.274

RESIDUAL MAG
GAMMAS
MIN -419.1
MAX 125.0
MEAN -198.4
STD DEV 149.1

DIURNAL
GAMMAS
MIN 51159
MAX 51160
MEAN 51162
STD DEV 2.260

RADAR ALTMTR
FEET
MIN 249.3
MAX 2621
MEAN 728.9
STD DEV 587.7

12
LINE
HORN - NTMS NH 13-2 - GEOMETRICS
BIG BEND AREA - VAN DATA ACQUIRED 1977

LINE 13
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 14
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

15
LINE
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

16
LINE
HORN - NTMS NH 13-2 - GEOMETRICS
BIG BEND AREA - VAN
DATA ACQUIRED 1977

17
 LINE
 HORN - NTMS NH 13-2 - GEOMETRICS
 DATA ACQUIRED 1977

18
LINE
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

19
LINE
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 20
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 21
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 22
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

LINE 23
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - VAN
LINE TLO1
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - VAN
LINE TLO2
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - VAN LINE TL03
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BARO PRESSURE
IN HG
MIN 24.55
MAX 26.08
MEAN 25.18
STD DEV .3018

AIR TEMPERATURE
DEG C
MIN 10.21
MAX 13.70
MEAN 11.78
STD DEV .9147

RESIDUAL MAG
GAMMAS
MIN -418.4
MAX 550.6
MEAN -88.29
STD DEV 197.3

DIURNAL
GAMMAS
MIN 51169
MAX 51184
MEAN 51176
STD DEV 1.658

RADAR ALTMTR
FEET
MIN 256.7
MAX 826.7
MEAN 418.6
STD DEV 68.57

LINE TL03

LINE TLO4
BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - VAN
LINE TL05
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS
LINE TLO6
DATA ACQUIRED 1977

LINE TLO7 BIG BEND AREA - VAN HORN - NTMS NH 13-2 - GEOMETRICS DATA ACQUIRED 1977

BIG BEND AREA - VAN
LINE TL08
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - VAN
LINE TL09
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

BARO PRESSURE
IN HG
MIN 25.15
MAX 25.15
MEAN 25.70
STD DEV .2234

AIR TEMPERATURE
DEG C
MIN 8.261
MAX 13.59
MEAN 9.784
STD DEV 1.525

RESIDUAL MAG
GAMMAS
MIN -313.2
MAX 2.448
MEAN -168.8
STD DEV 76.69

DIURNAL
GAMMAS
MIN 51161
MAX 51165
MEAN 51163
STD DEV 1.101

RADAR ALTMTR
FEET
MIN 302.9
MAX 1000
MEAN 424.4
STD DEV 77.62

LINE TL09

BIG BEND AREA - VAN
LINE TL10
HORN - NTMS NH 13-2 - GEOMETRICS
DATA ACQUIRED 1977

1
LINE
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 2
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 3
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 4
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 5
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 6 BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS DATA ACQUIRED 1977

7
LINE NH 13-3 - GEOMETRICS
BIG BEND AREA - PECOS - NIMS
DATA ACQUIRED 1977

LINE 8
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 9
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 10
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 11
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

12
LINE
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 13
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

14
LINE
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 15
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 16
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 17
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

18
LINE
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 19
BIG END AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 20
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 21
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 22
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE 23
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

FEET 0 20000 40000 60000 80000 100000

METERS 0 10000 20000 30000 40000 50000
AIR TEMPERATURE DEG C 30
BARO PRESSURE IN HG 24 27
RESIDUAL MAG GAMMAS 500
DIURNAL GAMMAS 51100 51300
RADAR ALTMTR FEET 1000

BARO PRESSURE
IN HG
MIN 26.21
MAX 26.85
MEAN 26.56
STD DEV .1451

AIR TEMPERATURE
DEG C
MIN .5670
MAX 4.028
MEAN 2.400
STD DEV .8911

RESIDUAL MAG
GAMMAS
MIN -547.4
MAX -21.23
MEAN -308.8
STD DEV 154.8

DIURNAL
GAMMAS
MIN 51165
MAX 51173
MEAN 51168
STD DEV 2.432

RADAR ALTMTR
FEET
MIN 399.3
MAX 708.0
MEAN 420.0
STD DEV 61.86

LINE TL11
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE TL12
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE TL13
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE TL14
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE TL15
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

BIG BEND AREA - PECO8 - NTMS NH 13-3 - GEOMETRICS
LINE TL16
DATA ACQUIRED 1977

LINE TL17
BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE TL17

LINE TL18
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977

LINE TL19 BIG BEND AREA - PECOS - NTMS NH 13-3 - GEOMETRICS DATA ACQUIRED 1977

LINE TL20
BIG BEND AREA - PECOS - NIMS NH 13-3 - GEOMETRICS
DATA ACQUIRED 1977