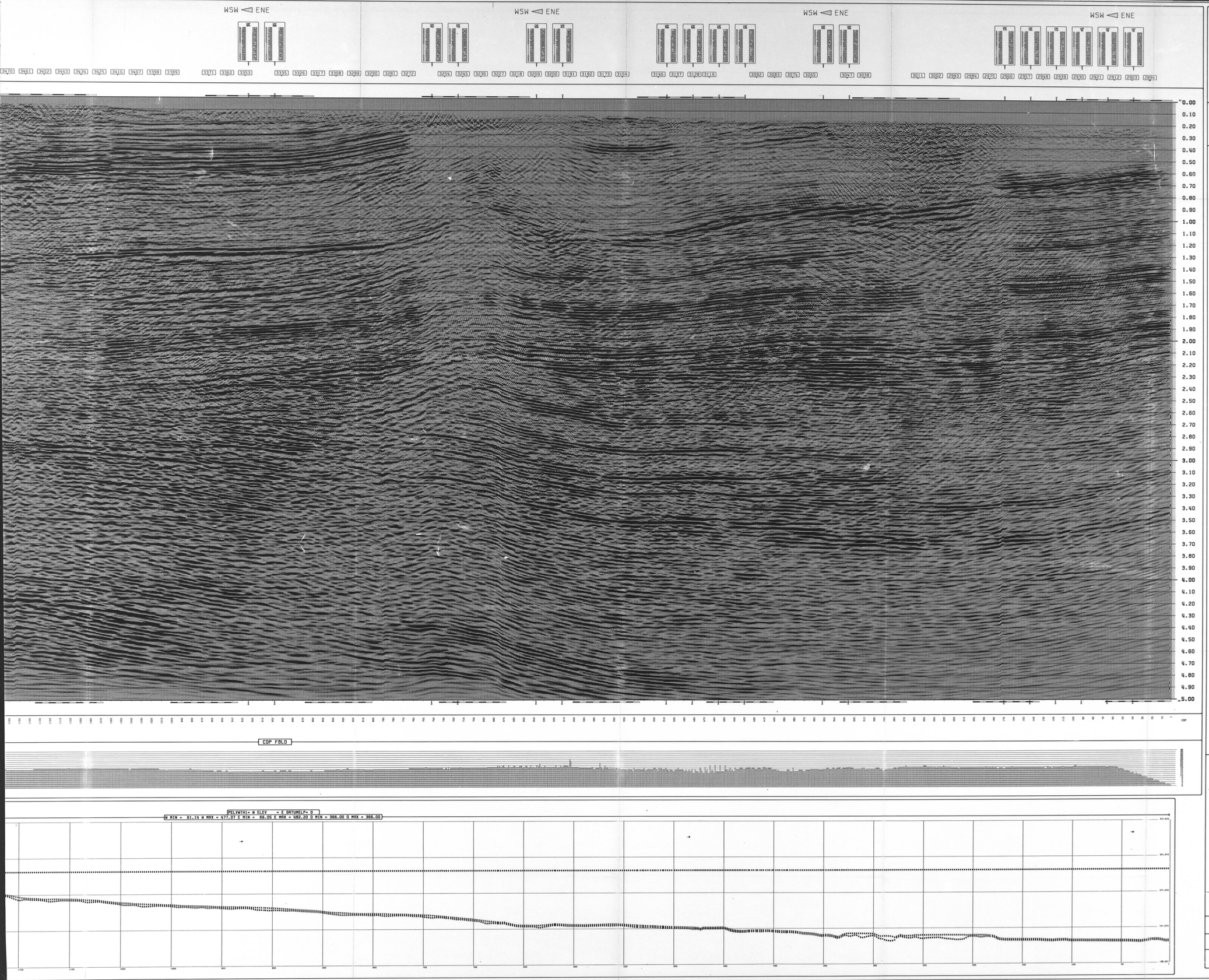


GBMIG TIME

CLIENT	CHEVRON CANADA RESOURCES
LINE	22X RUSTY LAKE 9229-C4-10E
AREA	96-C-NE,NW DAT 29 1992
SHOT POINTS	2882 - 3788
COP'S	1 - 1795

CALGARY.

Chevron Exploration and Production Services Company.

SEG Y HEADER

```
LINE 22X  GRID 96 CNE
PROJECT RUSTY LAKE
PROFILE 2882-3788
CHEVRON CANADA                    CANADA
CHEVRON CANADA RESOURCES FRONTIER DIV.
DATE-06-03/1991 CREW-WESTERN      RECD E-W  IR/PRFILE:120  CDP-2000X
SPACING: REC---NS-SP-NS----1815 M.  SP INT- 90 M.  CRP INT- 30 M.
SOURCE: TYPE-VIBS                 NO.-3 ELEVABLE  HOLE DEPTH-13 M.
GEOPHONE TYPE-SM-4                NBR FRO-12  SPACING-2.0 M.  OFFSET-13 M.  RFORT
INST-GPS 5        REC LEN-5 S     SI-2 MS  FILTER- 8/16-180/12 HZ
NOTCH-OUT   TYPE FMT-SEG B
```

PROCESSING HISTORY

```
CHES:  FORMAT 00000001 !
LOAD CCR DATASET:      LDCCRDS  15490310 DPV02R03          1991-06-01 17:40:41!
FORMAT CCR DBS:        FMCCR    14180229 DPV02R03          1991-06-01 17:43:51!
FORMAT SURVEY:         FMCCRSUR 12180222 DPV02R03          1991-06-01 17:44:27!
ASSIGN GEOMETRY:       TIC      10980360 DPV02R03          1991-06-01 17:46:08!
LOAD SEGYOP DATA:      LDSYCP   00980235 DPV02R03          1991-06-01 18:04:45!
FORMAT SEGY DATA:      FMSEGY   10090306 DPV02R03          1991-06-01 18:08:32!
LINK FILES:            LINK     ANCD03C8 DPV02R03          1991-06-01 18:15:47*
BIN ASSIGNMENT:        BIN2D    09991071 DPV02R03          1991-06-01 18:25:39*
WAVELET CONVOLUTION: WRVPL1 V2RN V2P7F603 CHESST           1991-05-18 03:16:25*
AMPLITUDE CORRECTION: AMPCBR VRNC V2P7F603 CHESST          1991-05-18 03:16:25
   NUMBER OF SPATIAL LOCATIONS     :   1
   SPHERICAL DIVERGENCE CORRECTION:
   SPHERICAL DIVERGENCE CORRECTION:
   EXPONENTIAL GAIN CORRECTION     :       6.0 DB/S
   ANGULAR ANGLE CORRECTION        :
   ABSORPTION CORRECTION           :
   SURFACE REFLECTION CORRECTION   :
    SURFACE VELOCITY:  1850
    VEL RATIO       :  1.87
   FOCUSING CORR   :          LINEAR
   SPREAD LENGTH   :          35.00
   CENTRAL FREQUENCY:         40.00
DSSCHS:  SETSS1:08090163  TIME-05.30.06   DATE-91.138
SGCCN:  SURFACE CONSISTENT DECON - NF1L=1, NCHP=1, DFMIN=  95.0, DFMAX=
        IF1L= 0, FL=  8.0, FH= 60.0, FD=  5.0,INDMK= 1, STAB=1.010000!
        DECON WINDOW NB. 1 AT CDP.     1.0, TLIM= 100.0 MS., TLMP=  0.0 MS.
        T1=0.50, T2=2.00, R1=0.00, A2=5.00, XT1=0.90, XT2=2.10, VM1=0.00,
DSSCHS:  SETSS1:08090163  TIME-06.49.26   DATE-91.138*
BIN2D:  BIN2D  V2H8 V2P7F603 CHESST
   BIN INTERVAL:      15.00*                                  1991-05-18 07:36:04
SORT: JDR1   V2RG V2P7F603 CHESST                             1991-05-18 07:41:27
   CDP     SDR1:
CDP/ FIELD STATICS FILE: ICFSTR V2R6 V2P7F603 CHESST          1991-05-18 07:41:27*
STATICS APPLIED: STAT   V2RM V2P7F603 CHESST                  1991-05-18 07:41:28
   FIELD STATICS
   MEAN ELEV CORRECTION
   DATUM SHIFT:
    NUMBER OF SPATIAL LOCATIONS:     2  (ONLY FIRST TWO LOCATIONS SHOWN)
    CDP:          1.          DATUM SHIFT:        0.220
    CDP:       1795.          DATUM SHIFT:       0.030*
NORMAL MOVEOUT REMOVAL: NMOR   V4R6 V2P7F603 CHESST           1991-05-18 07:41:29
   NMO REMOVAL BY DIX NMO FORMULA
   NUMBER OF SPATIAL LOCATIONS:     6
   TIME, STACKING VELOCITY PAIRS BY
        CDP:
    ( 0.000,  1980)( 0.100,  1980)( 0.200,  2200)( 0.300,  2470)!
    ( 0.400,  2670)( 0.500,  2980)( 0.600,  3280)( 0.700,  3680)!
    ( 0.800,  3720)( 0.900,  3920)( 1.000,  4020)( 1.200,  4160)!
    ( 1.400,  4240)( 1.600,  4260)( 2.000,  4280)( 2.500,  4280)!
    ( 3.500,  4350)( 5.000,  4450)*

FIRST BREAK MUTE: MUTE   V3R0 V2P7F603 CHESST                 1991-05-18 07:41:30
   MUTE APPLIED:  YES
   TIME-OFFSET:      0.000-    0., 0.000-   405., 0.380-   415.,
                     0.900-   1815.,*
SPECTRAL WHITENING: CMXFIL  V1R8 V2P7F603 CHESST              1991-05-18 07:41:30
   NUMBER OF FILTERS:          99     FILTER WIDTH:                 10.00 HZ
   NUMBER OF FILTER PRINTS:    99     FILTER WIDTH:                 10.00 HZ
   FIRST FREQUENCY:            15.00 HZ     FREQUENCY INC:         10.00 HZ
   OPERATOR LEND  : 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400*
NORMAL MOVEOUT RESTORATION: NMOR   V4R6 V2P7F603 CHESST       1991-05-21 17:03:59
   NMO RESTORATION BY DIX NMO FORMULA
   NUMBER OF SPATIAL LOCATIONS:     6
   TIME, STACKING VELOCITY PAIRS BY
        CDP:
    ( 0.000,  1980)( 0.100,  1980)( 0.200,  2200)( 0.300,  2420)!
    ( 0.400,  2670)( 0.500,  2980)( 0.600,  3280)( 0.700,  3680)!
    ( 0.800,  3720)( 0.900,  3920)( 1.000,  4020)( 1.200,  4160)!
    ( 1.400,  4240)( 1.600,  4260)( 2.000,  4280)( 2.500,  4280)!
    ( 3.500,  4350)( 5.000,  4450)*

NORMAL MOVEOUT REMOVAL: NMOR   V4R6 V2P7F603 CHESST           1991-05-21 17:04:00
   NMO REMOVAL BY DIX NMO FORMULA
   NUMBER OF SPATIAL LOCATIONS     20
   TIME, STACKING VELOCITY PAIRS BY
        CDP:
    ( 0.100,  2290)( 0.200,  2310)( 0.300,  2390)( 0.400,  2600)!
    ( 0.500,  2905)( 0.600,  3060)( 0.700,  3150)( 0.800,  3180)!
    ( 0.900,  3230)( 1.000,  3240)( 1.100,  3250)( 1.200,  3260)!
    ( 1.400,  3280)( 1.600,  3290)( 1.800,  3290)( 2.000,  3290)!
    ( 2.500,  3380)( 3.500,  3500)( 5.000,  3780)*

STATICS APPLIED: STAT   V2RM V2P7F603 CHESST                  1991-05-21 17:04:01
   RESIDUAL FOR STATICS
   RESIDUAL FIELD STATICS*

FIRST BREAK MUTE: MUTE   V3R0 V2P7F603 CHESST                 1991-05-21 17:04:01
   MUTE APPLIED:  YES
   TIME-OFFSET:      0.000-    0., 0.000-   405., 0.380-   415.,
                     0.900-   1815.,*
STACK: STACK   V5R6 V2P7F603 CHESST                           1991-05-21 17:04:01
   TYPE:     MEAN STACK*
DISK OUTPUT: DISKOT V4R1 V2P7F603 CHESST                      1991-05-21 17:04:53
   PERMANENT DATASET:  CALGARY.X27.PSMB6262.S1ACK.V852UCC
DSSCHS:  SETSS1:08090163  TIME-10.53.35   DATE-91.145
CALFIL:  F1=10.00, F2=15.00, FM=10.00, NF=10, IBC1= 0, TIDM= 400 MS
         TIDM= 400  400  400  400  400  400  400  400  400  400  400  400 IN5.0
         TIDM= 400  400  400  400  400  400  400  400  400  400  400  400
SPPRED:  TMIN= 0.00 S, TMAX= 5.00 S, NXR= 60, NXT= 30, TR= 400 MS, TT= 100 MS,
         NPF= 0, ITYPE= 0, FMIN= 1.00, IBURG= 1, ITYPE= 0, FMIN= 0, FMAX=100
         IWHITE= 0, FSMOTH= 0.0 HZ, IFAIL= 1, DIPMIN= 8.5 MS/TR, DIPMAX= 0.0
DSSCHS:  SETSS1:10090313  TIME-17.33.51   DATE-91.154
DSSCHS:  SETSS1:10S/1189  TIME-17.07.53   DATE-92.024
CREN:  DRSN179      92.024  17.08.34
       DATA RESAMPLED FROM   2.00000 MS. TO   4.00000 MS.
SPPRED:  TMIN= 0.10 S, TMAX= 5.00 S, NXR=100, NXT= 25, TR= 500 MS, TT= 120 MS,
         NPF= 10, ITYPE= 0, FMIN= 1.00, IBURG= 1, ITYPE= 0, FMIN= 0, FMAX=100
         IWHITE= 0, FSMOTH= 0.0 HZ, IFAIL= 1, DIPMIN= 0.0 MS/TR, DIPMAX= 5.0
DSSCHS:  SETSS1:1659/189  TIME-08.54.05   DATE-92.030
DSSCHS:  SETSS1:1658/189  TIME-11.34.47   DATE-92.052
BALANS:  SETSS1:17DB3287  TIME-11.35.14   DATE-92.052
         4BALANS NZONE =1,11-0.30,2.5,
         KEND
TAPERS:  SETSS1:1558/106  TIME-11.36.18   DATE-92.052
         SPATIAL AND TEMPORAL WINNING WINDOWS APPLIED
         NTRS-    0 ,    0                NSAMP-   50
GBMIG:   SETSS1:                          TIME-17:18:37   DATE-92052
         VELOCITY FROM DEPTH CONVERSION
         DZ = 5.00, FMAX = 15000.0, TMAX =  5.000          T*
         WIDTH =  514.3, RE=     0.71, EPSLONE=
         THETA1 =   30.0, THETA2 =    85.0 THETA3 =    75.0, THETA4 =    90.0*
         F1 =    4.0,   F2 =    10.0   F3 =    80.0,   F4 =   100.0
         *
DSCHS:  *(*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)/*)
        SETSS1:1DS/1189  TIME-08.08.15   DATE-92.0554
FILTER: FMFILT V3R1 V2P7F006 CHESST                           1992-02-28 17:11:52
   TYPE: BANDPASS      SCAPLY V2R8 V2P9F006 CHESST
   LOW CUT SLOPE:      99                  PHASE: ZERO
   HIGH CUT SLOPE:     99
    CUT   LOW CUT  ATTENUATION  HIGH CUT  ATTENUATION
    1 2.40   10.00     %.          80.00     %.
    2 2.60   10.00     %.          58.00     %.
SECONDARY STREAM HISTORY:                     V2P9F006 CHESST     1992-02-28 17:12:20
AMPLITUDE SCALING CALCULATION: SCRLEC V1RE V2P9F006 CHESST1992-02-28 17:11:53
   TYPE:  MEAN ABSOLUTE AMPLITUDE
   BEG TIME:   0.000
   END TIME:   2.500
END SECONDARY STREAM HISTORY:                 V2P9F006 CHESST 1992-02-28 17:12:20
AMPLITUDE SCALING: SCAPLY V2R8 V2P9F006 CHESST                1992-02-28 17:12:20
   SCALING FROM:                   SCALE:
STATICS APPLIED: STAT   V2RN V2P9F006 CHESST                  1992-02-28 17:12:20
   DATUM SHIFT
    NUMBER OF SPATIAL LOCATIONS:     2   (ONLY FIRST TWO LOCATIONS SHOWN)
    CDP:          1.          DATUM SHIFT:        0.220
    CDP:       1795.          DATUM SHIFT:       -0.030
DISK OUTPUT: DISKOT V5R6 V2P9F006 CHESST                      1992-02-28 17:12:20
   PERMANENT DATASET:  CALGARY.X29.PBSMP3W.GBMIGT.V852201
```

COMMENTS

```
PERMANENT DATA SETS .....

        X35X.X27.PSGB6262.DP.V851022 ............. ( EDITOR )
        CALGARY.X27.PSGB6262.STATICS.V850202 ..... ( STATICS FILE )
        CALGARY.X27.PSGB6262.STACK.V850202 ....... ( FINAL STACK )
        CALGARY.X29.PBSMP3W.GBMIGT.V852201 ....... ( POST STACK GBMIG
                                                   ( FLOATING DATUM
                                                   ( REMOVED )
        CALGARY.V29CH5.PBSMP3W.GBMIGZ.V852200 .... ( POST STACK GBMIG
                                                   ( FLOATING DATUM
                                                   ( REMOVED )

UPSHOT FIELD STATICS APPLIED .....

        DATUM ..................... 350 METERS
        REPLACEMENT VELOCITY ...... 2400 METERS PER SECOND
        REPLACEMENT VELOCITY ...... 3500 METERS PER SECOND

TWELVE NMOR BRUTE VELOCITY FUNCTIONS USED .....

FLOATING DATUM APPLIED

        CDP 1          DATUM SHIFT .... -0.220
        CDP 1795       DATUM SHIFT .... +0.030

TOTAL NMO VELOCITY APPLIED IN NMOR

BASP PREPROCESSING INCLUDED .....

        FMFILT .... 15/30 - 70/72

FLOATING DATUM REMOVED

        CDP 1          DATUM SHIFT .... +0.220
        CDP 1795       DATUM SHIFT .... -0.030

PRE-STACK PROCESSING BY ......... YES DANSERAU
POST-STACK PROCESSING BY ........ YES DANSERAU
PROCESSED FOR ................... BRAD DALLET
```

DISPLAY (CHSPLT)

CHSPLT:	V3R0	PLOT DIRECTION:	RIGHT TO LEFT
TRACE PER INL:	25.00	TRACE PER SECOND:	5.00
TRACE AMPLITUDE:	2.00	TRACE MODE:	WIGG
TRACES PER CLIPPER PERK:	1.00/ 1.00	BLACKNESS / BIAS:	6/ 0.00
AUTO FACTOR (DB.)=	+0.0	ANTENNA SHIFT (TRACES):	+0.0

SIGNATURES

SUPERV:(CDS'S)
SIGNOLOGIST'S:
TELINT:(HHS'S)

CONFIDENTIAL & PROPRIETARY TECHNOLOGY

DISTRIBUTION OF THE MATERIAL CONTAINED HEREIN IS LIMITED TO PERSONS AUTHORIZED BY CHEVRON CORPORATION.

USER I.D.	CH22X5	ORIENTATION	
DATE	1992-03-02	240.00	
TIME	17:27:58		

2060 Walkley Rd.
Ottawa, Ont.
Canada K1G 3P5
Tel: (613) 731-9571
Fax: (613) 731-0453

PROJ. NO. 9229-C4-10E

LINE NO. 22X

R.R. 10X

PART NO. 1 OF 2

GBMIG TIME

CLIENT	CHEVRON CANADA RESOURCES
LINE	22X RUSTY LAKE
AREA	96-C-NE,NW
SHOT POINTS	2882 - 3788
CDP'S	1 - 1795

Chevron Exploration and Production Services Company.

SEG Y HEADER

```
LINE 22X  GRID 96 CNE
PROSPECT RUSTY LAKE
PROFILES 2882-3788
CREW-WESTERN                    CANADA
CHEVRON CANADA RESOURCES FRONTIER DIV.
DATE-04-03-1991 CREW-WESTERN    REC@ E-+W TR/PRFILE=120  CDP=2000X
SPREAD= 1815----45-SP-45-----1815 M.  SP INT= 90 M.  CDP INT= 30 M.
DYNAMITE : 1 HOLE                     1.0 KG/HOLE          HOLE DEPTH=13 M.
GEOPHONE : TYPE=SM-4  REC LEN=5 S  NAT FREQ=4.5 HZ  PATTERN=  5.30 M. APART
INST=DFS 5                 SI=2 MS  FILTER= 8/18-180/72 HZ
NOTCH=OUT  TAPE FMT=SEG B
```

PROCESSING HISTORY

```
CHESS
LOAD CCR DATASET
FORMAT CCR DBS
DOWNTAPE DATA
LOAD SEGTOP DATA
FORMAT SEGY DATA
LINK FILES
BIN ASSIGNMENT
WAVELET CONVOLUTION
AMPLITUDE CORRECTION
SORTCDP
SORCDN
DSSCHS
BINXD
COMT
COPY FIELD STATICS FILE
STATICS APPLIED
NORMAL MOVEOUT REMOVAL
FIRST BREAK MUTE
SPECTRAL WHITENING
NORMAL MOVEOUT RESTORATION
NORMAL MOVEOUT REMOVAL
STATICS APPLIED
FIRST BREAK MUTE
DSSCHS
DISK OUTPUT
DSSCHS
CALFIL
SPPRED
DSSCHS
DSSCHS
DSSCHS
SPPRED
DSSCHS
DSSCHS
BRLANS
TRPERS
GBMIG
DSSCHS
FILTER
SECONDARY STREAM HISTORY
AMPLITUDE SCALING CALCULATION
END SECONDARY STREAM HISTORY
AMPLITUDE SCALING
STATICS APPLIED
DISK OUTPUT
```

COMMENTS

```
PERMANENT DATA SETS .....
        VSSV.V27.PSQB62G2.DF.V851G22 ........... ( EDITOR
        CALGAY.V27.PSQB62G2.STATICS.V850G22 .... ( STATICS FILE )
        CALGAY.V29.PSQB62G2.STACK.V850G22 ...... ( STACK STREAM )
        CALGAY.V29.P89KP7W.GBMIGT.V852G22 ...... ( POST-STACK GBMIG
                                                   FLOATING DATUM
                                                   REMOVED )
        CALGAY.V29CHS.P89KP7W.GBMIGZ.V852G22 ... ( POST-STACK GBMIG
                                                   FLOATING DATUM
                                                   REMOVED )

UPSHOT FIELD STATICS APPLIED .....

        DATUM ..................... 366 METERS
        WEATHERING VELOCITY ....... 700 METERS PER SECOND
        REPLACEMENT VELOCITY ...... 3048 METERS PER SECOND

TWELVE NMO BRUTE VELOCITY FUNCTIONS USED .....

FLOATING DATUM APPLIED

        CDP 1          DATUM SHIFT .... -0.220
        CDP 1795       DATUM SHIFT .... +0.030

TOTAL NMO VELOCITY APPLIED IN NMOH

MASP PREPROCESSING INCLUDED .....

        FRFILT .... 15/36 - 70/72

FLOATING DATUM REMOVED

        CDP 1          DATUM SHIFT .... +0.220
        CDP 1795       DATUM SHIFT .... -0.030

PRE-STACK PROCESSING BY ......... TVES DANSEREAU
POST-STACK PROCESSING BY ........ TVES DANSEREAU
PROCESSED FOR ................... DAVE SMILLET
```

DISPLAY (CHSPLT)

```
CHOPLY:                    VSPO          PLOT DIRECTION:          RIGHT TO LEFT
TRACES PER IN.:            2.00          TRACE SECONDS:                  4.00
TRACE AMPLITUDE:           2.20000       TRACE AUGMENT:                  4/100
TRACES PER CLIP/PER PERK:  1.00/ 1.00    BLACKNESS / BIAS:               6/ 0.00
AUTO FACTOR TOL :          +0.0          ANTENNA SHIFT (TRACES):         +0.0
```

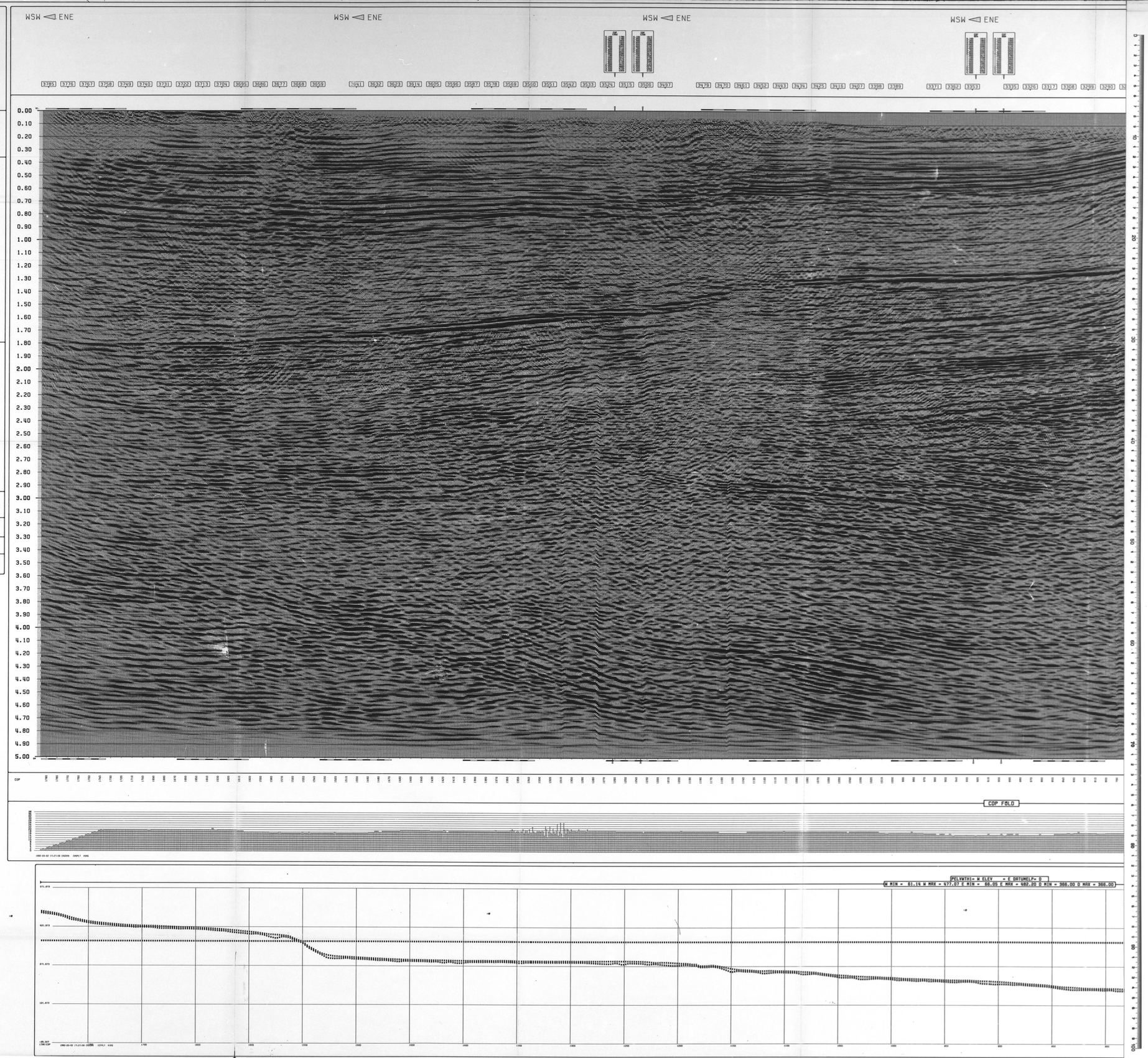
SIGNATURES

```
SUPERVISOR(TS)
PROCESSOR(TS)
TECHNICIAN(TS)
```

CONFIDENTIAL & PROPRIETARY TECHNOLOGY

DISTRIBUTION OF THE MATERIAL CONTAINED HEREIN IS LIMITED TO PERSONS AUTHORIZED BY CHEVRON CORPORATION.

USER I.D.	CH22X6	ORIENTATION	240.00
DATE	1992-03-02		
TIME	17:27:56		



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PROJ. NO. 92 29 - C4 - 10E

LINE NO. 22X

PART NO. 2 OF 2

R.R. 10X