CALGARY MAY 29 1992 9229-C4-10

# GBMIG TIME

| | |
|---|---|
| CLIENT | CHEVRON CANADA RESOURCES |
| LINE | 52X RUSTY LAKE |
| AREA | 96 C SW-SE |
| SHOT POINTS | 2450 - 3450 |
| CDP'S | 1 - 1995 |

Chevron Exploration and Production Services Company.

## SEG Y HEADER

```
LINE 52X  96-C-SW/SE
PROSPECT  RUSTY LAKE
PROFILES  2450 - 3450
PROVINCE  N.W.T.
CONTRACTOR CHEVRON CANADA RESOURCES/FRONTIER DIV.
DATE-20-02/1991 CREW-WESTERN          REC@ NE->SW TR/PROFILE-120  CDP= 20000
SPREAD- 1815 - 95 - SP - 95 - 1815 M. SP INT- 90 M.  GRP INT- 30 M.
DYNAMIT 1-HOLE          2.0 MILSECONDS/HOLE  HOLE DEPTH- 14 METERS
DEPHONE TYPE-SM-4       NOT FRED-14 HZ  PHONES/GRP- 9  3.30 M. APART
FILTER  NOTCH-OUT  REC LIN-N 5  SIXE MS  FILTER- 8/18-180/92 HZ
NOTCH-OUT  TAPE FMT-SEG B
```

## PROCESSING HISTORY

```
CHESS
LOAD CCR DATASET
FORMAT SURVEY
LOAD SCITCH DATA
FORMAT TEST DATA
FORMAT TEST DATA
ASSIGN GEOMETRY
LINK FILES
BIN ASSIGNMENT
WAVELET CONVOLUTION
AMPLITUDE CORRECTION
          DSSCHS
          DSSCHS
          DSSCHS
          DSSCHS
          BINDO
          SORT
CDPT FIELD STATICS FILE
STATICS APPLIED
NORMAL MOVEOUT REMOVAL
NORMAL MOVEOUT
SPECTRAL WHITENING
NORMAL MOVEOUT RESTORATION
NORMAL MOVEOUT REMOVAL
RESIDUAL STATICS CALCULATION
CDPT RESIDUAL STATICS FILE
STATICS APPLIED
FIRST BREAK MUTE
          STACK
          DISK OUTPUT
SPECTRAL WHITENING
          DSSCHS
          SPYMED
          DSSCHS
          DSSCHS
          BALANS
          TRPERS
          GBMIG
          DSSCHS
          FILTER
SECONDARY STREAM HISTORY
AMPLITUDE INVERSE CALCULATION
END SECONDARY STREAM HISTORY
AMPLITUDE SCALING
STATICS APPLIED
DISK OUTPUT
```

## COMMENTS

```
PERMANENT DATA SETS .....
     ASSV.V27.PS0B0238.DP.V6250/C/ ..................( EDITOR )
     CALCRT.V27.PS0B0238.STATICS.V6250201 ...........( STATICS FILE )
     CALCRT.V27.PS0B0238.SINCR.V6250201 .............( FINAL SINCR )
     CALCRT.V29.PS0MPSW.COMIGI.V6250201 .............( MIGRATION TIME )
     CALCRT.PS0MPSW.COMIGI.V6250201 .................( MIGRATION DEPTH )
NMO& BRUTE VELOCITY FUNCTIONS .....

     STACK VELOCITY AT CDP 1017 .

     (0.00, 2100), (0.10, 2100), (0.20, 2380), (0.30, 2720),
     (0.40, 2850), (0.50, 3080), (0.60, 3120), (0.70, 3230),
     (0.80, 3360), (0.90, 3510), (1.00, 3600), (1.20, 3800),
     (1.40, 4070), (1.60, 4200), (2.00, 4440), (3.00, 4850),
     (5.00, 5000)

     STACK VELOCITY AT CDP 1995 -

     (0.00, 2070), (0.10, 2070), (0.20, 2180), (0.30, 2320),
     (0.40, 2540), (0.50, 2660), (0.60, 2780), (0.70, 2910),
     (0.80, 3010), (0.90, 3080), (1.00, 3160), (1.20, 3400),
     (1.40, 3930), (1.60, 4280), (2.00, 4660), (3.00, 4950),
     (5.00, 5000)

UPSHOT FIELD STATICS APPLIED .....

     DATUM ..................... 360 METERS
     REFRACTING VELOCITY ....... 4000 METERS PER SECOND
     REPLACEMENT VELOCITY ...... 3000 METERS PER SECOND

1ST STAT ..... APPLIED FIELD STATICS
     ..... APPLIED MULTIPLEX SCAN CORRECTIONS
     ..... APPLIED FLOATING DATUM ..... CDP   1 ---> -175 MSEC
                                        CDP 1995 ---> +75 MSEC

2ND STAT ..... APPLIED RESIDUAL RSK AND PILOT STATICS

3RD STAT ..... REMOVED FLOATING DATUM ..... CDP   1 ---> +175 MSEC
                                            CDP 1995 ---> 75 MSEC

PRE-STACK PROCESSING BY ........ GARY SCHEIFELE
POST-STACK PROCESSING BY ....... GARY SCHEIFELE
PROCESSED FOR .................. DAVE BARLEY
```

## DISPLAY (CHSPLT )-

| | | | |
|---|---|---|---|
| CHSPLT: | VSRD | PLOT DIRECTION: | RIGHT TO LEFT |
| TRACE PER IN.: | 24.00 | IN. PER SECOND: | 5.00 |
| TRACE AMPLITUDE: | 2.00 | TRACE SPACING: | 0100 |
| TRACES PER CLIP/PER PERS: | 1.00/ 1.00 | BLACKNESS: | 67 |
| AUTO FACTOR ADD.1: | +0.0 | BIAS: | 0.0 |
| | | ANTENNA SHIFT (TRACES): | |

## CONFIDENTIAL & PROPRIETARY TECHNOLOGY

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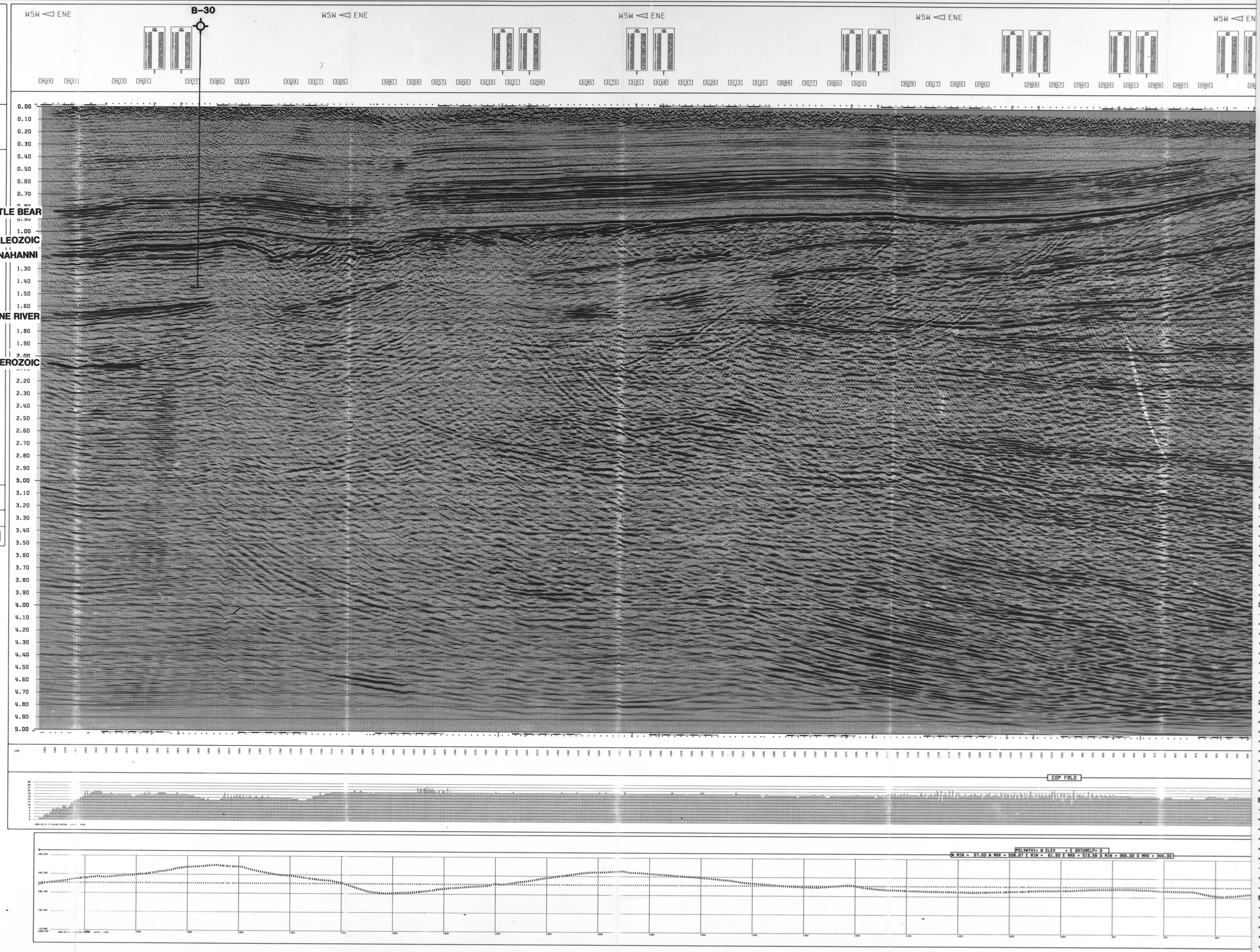
| | | | |
|---|---|---|---|
| USER I.D. | CHS2Xa | ORIENTATION | |
| DATE | 1992-02-27 | 240.00 | |
| TIME | 17:28:06 | | |





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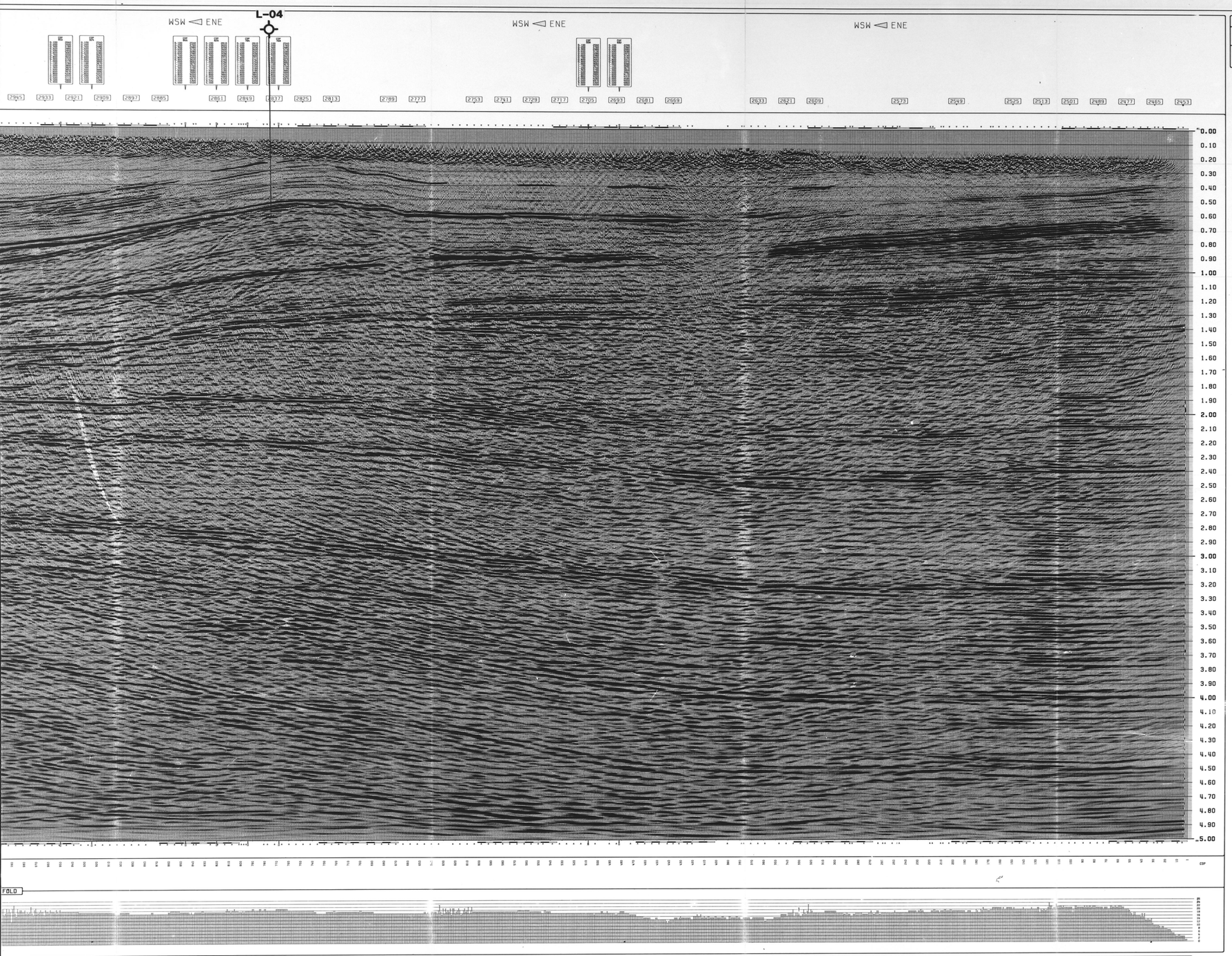
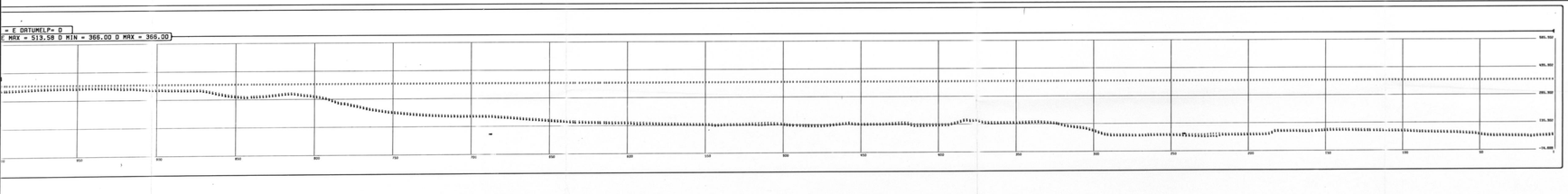
PROJ. NO. 9229-C4-10E

LINE NO. 52X

PART NO. 1 OF 2

R.R. 10X

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| | | |
|---|---|---|
| USER I.D. | CHS2X0 | ORIENTATION |
| DATE | 1992-02-27 | 240.00 |
| TIME | 17:28:06 | |

# GBMIG TIME

| | |
|---|---|
| CLIENT | CHEVRON CANADA RESOURCES |
| LINE | 52X RUSTY LAKE |
| AREA | 96 C 5W-5E |
| SHOT POINTS | 2450 - 3450 |
| CDP'S | 1 - 1995 |

Chevron Exploration and Production Services Company.

## SEG Y HEADER

```
LINE 52X   96-C-5W/5E
PROJECT  RUSTY LAKE
PROFILES   2450 - 3450
PROVINCE   N.W.T.   CANADA
CHEVRON CANADA RESOURCES FRONTIER DIV.
SPREAD: SERIAL  SP - 1995 ; 1 - 1995 ; 1 - 1995 ; 1 - 1995
SPREAD: SERIAL  SP - 1 ; 1 - 1 ; 1 - 1 ; 1 - 1 ; 1 - 1
DYNAMITE  1 HOLE          2.0 KG:SGF-WRS/HOLE  DEPTH: 15.M:15M
GEOPHONE TYPE:SM-4        NWI FREQ:14 HZ  P:TWO/GEOP  S: 3.30 M. APART
INST:DFS 5          REC LEN:5 S   SI:2 MS  FT:  TM: 8:16 18/12 HZ
NOTCH:OUT  TAPE TYT:SEG Y
```

## PROCESSING HISTORY

```
CHESS:  FORMAT 00000001
LOAD CCR DATASET:   LDCCRDS  3:493310 DFVDUMD3          1991-03-12 10:52:521
FORMAT SURVEY:      FMCCRSUR 10:46222 DFVDUMD3          1991-03-12 10:04:491
LOAD SEGTCP DATA:   LDSTCP   06:96035 DFVDUMD3          1991-03-12 10:37:451
FORMAT SEGT DATA:   FMSEGT   10:89306 DFVDUMD3          1991-03-12 10:37:101
FORMAT CCR DBS:     FMCCR    14:96579 DFVDUMD3          1991-03-18 17:06:221
ASSIGN GEOMETRY:    TIE      10:92340 DFVDUMD3          1991-03-13 17:09:131
LINK FILES:         LINK     20:55524 DFVDUMD3          1991-03-13 17:15:241
BIN ASSIGNMENT:     BIN20    09:18171 DFVDUMD3          1991-03-13 17:27:171
WAVELET CONVOLUTION: WAVEFLT V2R4 V2F3F203 CHESS1       1991-03-20 [illegible]
AMPLITUDE CORRECTION: AMPCOR V4RC V2F3F203 CHESS1       1991-03-20 [illegible]
    TRACE INTERNAL LOCATIONS:   1
    DFSET SWITCH:
    SPHERICAL DIVERGENCE CORRECTION:
    EXPONENTIAL CORRECTION:                 6.0 DB/S
    SURFACE VELOCITY:  2100
    SURFACE REFLECTION CORRECTION
    SURFACE VELOCITY:  2100
    PWR EXPONENT:      1.67        LIN:0.
    PWR WORST CDPN     :           30.:0.
    BANDWIDTH LENGTH   :           30.:0.
    CENTRAL FREQUENCY:             50.:0.
DSSCH3:  SET551+08090183   TIME-03.29.01   DATE-01-31-9
SDECON:  SURFACE CONSISTENT DECONVOLUTION  V:31-1, NC:1-  PR:1-1,  [illegible]
    IFIL: 0, FIL: 0.0, FIH: 50.0, FE:  1.0, DB:0.0,  [illegible]
    DECON WINDOW NO. 1 WT CDP:  1.0, [illegible]  0.0 MS.
    T1=0.30, T2=2.00, M1=0.00, M2=0.00, WT1:0.0, W2: [illegible]
DSSCH3:  SET551+08090183   TIME-17.49.48   DATE-01-31-9
BIN20:  BIN20  V2R0 V2F3F201 CHESS1                     1991-04-17 19:25:02
    BIN INTERVAL:          15.00+
SORT:  ZORT   V2R0 V2F3F201 CHESS1                      1991-04-17 19:04:45
    CDP          SORT:+
CDPT FIELD STATICS FILE:  CFSTA V2R0 V2F3F201 CHESS1    1991-04-17 19:41:57
STATICS APPLIED:  STAT   V2RA V2F3F201 CHESS1           1991-04-17 19:47:54
    DATUM SHIFT:
    MULTIPLIER SCAN CORRECTION
    DATUM SHIFT:
    NUMBER OF SPATIAL LOCATIONS:          2  [illegible]
    CDP:                                  SHIFT  [illegible]
    CDP:                1995.             [illegible]
NORMAL MOVEOUT REMOVAL:  NMOR   V4RK V2F3F201 CHESS1    1991-04-17 19:47:54
    NMO DESTRETCH BY DIV NMO FORMULA
    NUMBER OF SPATIAL LOCATIONS:          2
    (TIME, STACKING VELOCITY PAIRS) AT
    CDP                 1017:
    ( 0.000,  2100+, ( 0.100,  2100+, ( 0.200,  2700+,  [illegible]
    ( 0.400,  2900+, ( 0.500,  3000+, ( 0.600,  3100+, [illegible]
    ( 0.900,  3300+, ( 1.000,  3400+, ( 1.100,  3500+, [illegible]
    ( 1.400,  4200+, ( 1.500,  4300+, ( 1.600,  4400+, [illegible]
    ( 5.000,  5500+
FIRST BREAK MUTE:  MUTI   V3R0 V2F3F201 CHESS1          1991-04-17 19:47:
    MUTE APPLY:   YES
    TIME-OFFSET:     0.000:   0., 0.000    0., 0.180:  [illegible]
                     0.800:  1810.,.
SPECTRAL WHITENING:  CWIFIL V1R9 V2F3F201 CHESS1        1991-04-17 19:49:02
    NUMBER OF FILTERS:                    8
    NUMBER OF FILTER POINTS:             99        FILTER WIDTH:          10.00 HZ
    FIRST FREQUENCY:                     15.00 HZ  FREQUENCY INC:         5.00 HZ
    OPERATOR LENG = 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400
NORMAL MOVEOUT RESTORATION:  NMOR   V4RK V2F3F603 CHESS1  1991-05-09 21:57:0
    NMO RESTRETCH BY DIV NMO FORMULA
    NUMBER OF SPATIAL LOCATIONS:          2
    (TIME, STACKING VELOCITY PAIRS) AT
    CDP                 1017:
    ( 0.000,  2100+, ( 0.100,  2100+, ( 0.200,  2700+,  [illegible]
    ( 0.400,  2900+, ( 0.500,  3000+, ( 0.600,  3100+, [illegible]
    ( 0.900,  3300+, ( 1.000,  3400+, ( 1.100,  3500+, [illegible]
    ( 1.400,  4200+, ( 1.500,  4300+, ( 1.600,  4400+, [illegible]
    ( 5.000,  5500+
NORMAL MOVEOUT REMOVAL:  NMOR   V4RK V2F3F603 CHESS1    1991-05-09 21:57:0
    NMO PRESTRETCH BY DIV NMO FORMULA
    NUMBER OF SPATIAL LOCATIONS:          18
    (TIME, STACKING VELOCITY PAIRS) AT
    CDP                 [illegible]
    ( 0.100,  2000+, ( 0.200,  2900+, ( 0.300,  [illegible]
    ( 0.500,  2900+, ( 0.600,  3100+, ( 0.700,  [illegible]
    ( 0.900,  3300+, ( 1.000,  3300+, ( 1.100,  [illegible]
    ( 1.300,  3800+, ( 1.400,  3900+, ( 1.500,  [illegible]
    ( 2.000,  4400+, ( 2.500,  5000+, ( 3.000,  [illegible]
RESIDUAL STATICS CALCULATION:  RSFAST V1R0 V2F3F603 CHESS1  1991-05-09 [illegible]
    CORRELATION LENGTH (MSEC):  ENGLE DE TRACE FOLLOWED BY [illegible]
    CORRELATION LENGTH (MSEC):          0.000 SECONDS
    CORRELATION LENGTH (MRSP):          0.050 SECONDS
    NUMBER OF SPATIAL LOCATIONS:          1
    CMP  LOCATIONS:
    CELL SIZE:                          540.000
    CELL OVERLAP:                       50.  %
    CORRELATION BEGIN TIME:               0.350
    CORRELATION END TIME:                 2.000+
CDPT RESIDUAL STATICS FILE:  [illegible] V2R6 V2F3F603 CHESS1  1991-05-09 21:[illegible]
STATICS APPLIED:  STAT   V2RK V2F3F603 CHESS1           1991-05-09 21:5[illegible]
    DATUM SHIFT:
    RESIDUAL FIELD STATICS:
FIRST BREAK MUTE:  MUTI   V3R0 V2F3F603 CHESS1          1991-05-09 21:57:0
    MUTE APPLY:   YES
    TIME-OFFSET:     0.000:   0., 0.000    0., 0.180:  [illegible]
                     0.800:  1810.,.
STACK:  STACK   V5R0 V2F3F603 CHESS1                    1991-05-09 21:57:48
    DPI:          MEAN STACK+
DISK OUTPUT:  DISKPT V4R1 V2F3F603 CHESS1               1991-05-1[illegible]
    PERMANENT DATASET:    CRLGAY.V27.PSGB6/38.STACK.V[illegible]
SPECTRAL WHITENING:  CWIFIL V1R9 V2F3F603 CHESS1        1991-05-1[illegible]
    NUMBER OF FILTERS:                    8
    NUMBER OF FILTER POINTS:             99        FILTER WIDTH:          10.00 HZ
    FIRST FREQUENCY:                     15.00 HZ  FREQUENCY INC:         5.00 HZ
    OPERATOR LENG = 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400
DSSCH3:  SET551+08090183   TIME-02.45.28   DATE-01-31
SPREED:  TMIN= 0.10 S; TMAX= 5.00 S, NTR= 50, NX= 30, IT= [illegible]
    TWIN= 0.00 S, TWOUT= 0.00 S, NTW= 0, NTWOUT= 0, [illegible]
    AWHITE= 0, FINERW= 0.0 HZ, IFAF= 0, DIFRW= 0.0 HZ, DIFRW= [illegible]
DSSCH3:  SET551+08090163   TIME-02.53.8   DATE-01-31
DSSCH3:  SET551+10591189   TIME-16.08.41  DATE-02-05
BALANS:  SET551+17085207   TIME-15.07.15  DATE-02-06
    BALANS NONE =1,T1=0.35,T2 4,
    END
TAPERS:  SET551+15585106   TIME-15.08.41  DATE-02-06
    SPATIAL AND TEMPORAL ANNING [illegible]
    MINS:   0 ..   0          [illegible]
GBMIG:  SET551+                TIME-08:11:06   DATE-03/05
    GAUSSIAN BEAM DEPTH MIGRATION
    DZ:   5.00, DMAX = 15000.0, TMAX =  [illegible]
    ZDPTH = 0.0,ZMAX = 0.71,ZINC = 0.0  [illegible]
    THETA1 =  90.0, THETA2 =  [illegible]  METERS =  25.3, THETAM =  90.0[illegible]
    F1 =   0.0,  F2 =  10.0   F3 =  80.0,  F4 =  100.0
    [illegible]
DSSCH3:  SET551+10591189   TIME-12.25.[illegible]  DATE-02.05.14
FILTER:  FMFILT V2R3 V2F3F205 CHESS1                    1992-02-27 17:26:10
    FILTER TYPE:          ZERO PHASE
    LOW CUT SLOPE:   30
    HIGH CUT SLOPE:  32
    CDP   TIME  LOW CUT  ATTENUATION  [illegible]
    1  0.00   10.00   60.        3.0[illegible]
SECONDARY STREAM HISTORY:  [illegible]
AMPLITUDE SCALING CALCULATION:  SCALLC V1R4 V2F3F [illegible] 1992-02-27 17:26:13
    TYPE = MEAN ABSOLUTE AMPLITUDE
    BEGIN TIME:   0.350
    END TIME:     2.400
END SECONDARY STREAM HISTORY:  V2F3F[illegible] 1992-02-27 17:26:15
AMPLITUDE SCALING:  SCAPLY V2R0 V2F3F205 CHESS1         1992-02-27 17:26:15
    SCALING TRACE FROM:     SCALLC
STATICS APPLIED:  STAT   V2RN V2F3F205 CHESS1           1992-[illegible]
    DATUM SHIFT:
    NUMBER OF SPATIAL LOCATIONS:          [illegible] FIRST CMP [illegible]
    CDP:                                  DATUM SHIFT:
    CDP:                1995.             DATUM SHIFT:
DISK OUTPUT:  DISKPT V5R[illegible] V2F3F205 CHESS1     1992-[illegible]
    PERMANENT DATASET:    CRLGAY.V27.PSGB6/38.SGMIGZ.V[illegible]
```

## COMMENTS

```
PERMANENT DATA SETS .....
      $TSV.V27.PSGB6/38.DP.V5J5/2 ..... ( 0)1:BA
      CRLGAY.V27.PSGB6/38.STATICS.V[illegible] ..... ( 1)STATICS.V[illegible]
      CRLGAY.V27.PSGB6/38.STACK.V[illegible] ..... ( 2)STACK.V[illegible]
      CRLGAY.V28.PSGB7/4.SGMIGZ.V[illegible] ..... ( 3)SGMIGZ.V[illegible]
      CRLGAY.PSGB7/4.SGMIGZ.V[illegible] ..... ( 4)SGMIGZ.V[illegible]
NMOR BRUTE VELOCITY FUNCTIONS .....
      STACK VEL FNC AT CDP 1001:
      (0.00, 2100)-(0.10, 2100)-(0.20, 2700)-(0.30, 2900).
      (0.40, 2900)-(0.50, 3000)-(0.60, 3100)-(0.70, 3300).
      (0.80, 3300)-(0.90, 3100)-(1.00, 3300)-(1.20, 3400).
      (1.40, 4000)-(1.60, 4200)-(2.00, 4500)-(3.00, 4800).
      (5.00, 5500)
      STACK VEL FNC AT CDP 1995 :
      (0.00, 2070)-(0.10, 2070)-(0.20, 2900)-(0.30, 2900).
      (0.40, 2910)-(0.50, 2900)-(0.60, 3000)-(0.70, 3100).
      (0.80, 3200)-(0.90, 3300)-(1.00, 3300)-(1.20, 3300).
      (1.40, 3900)-(1.60, 4200)-(2.00, 4500)-(3.00, 4800).
      (5.00, 5500)
UPSHOT FIELD STATICS APPLIED .....
      DATUM ..... MSL  TIME
      WEATHERING VELOCITY ..... MPS  1125 PER SECOND
      REPLACEMENT VELOCITY ..... 3400  TIME PER SECOND
1ST STAT ..... APPLIED FIELD STATICS
      ..... APPLIED WEATHERING STATICS
      ..... APPLIED FLOATING DATUM ..... CDP  [illegible]
                                         CDP 1995 ..... [illegible] MSEC
2ND STAT ..... APPLIED RESIDUAL FIELD STATICS
3RD STAT ..... REMOVED FLOATING DATUM ..... CDP  [illegible] MSEC
                                         CDP 1995 ..... [illegible] MSEC
PRE-STACK PROCESSING BY ..... SAM SCHIFFER
POST-STACK PROCESSING BY ..... SAM SCHIFFER
PROCESSED FOR ..... DAVE BRILEY
```

## DISPLAY (CHSPLT)

| | | | |
|---|---|---|---|
| CHSPLT: | | | |
| TRACES PER IN.: | 24.00 | FLAT DIREC'ION: | |
| TRACES PER CM.: | 2.00 | IN. PER SECOND: | 5.00 |
| TRACES PER CLIPPER PEAK: | 1.00/1.00 | CM. PER SECOND: | 2.50 |
| | 10.0 | BLACKNESS / BURN: | 67 PLOT |
| AUTO FACTOR (DB.): | | ANTENNA SHIFT (TRACES): | 0.0 |


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PROJ. NO. 9 2 2 9 - C 4 - 1 0 E
LINE NO. 5 2 X
PART NO. 2 OF 2
R.R. 10X