



DI-DRILL, INC.
BAKERSFIELD, CALIFORNIA

DI-DRILL, INC.
BAKERSFIELD, CALIFORNIA

WELL NAME: CC 14-23

WELL NAME: CC 14-23

JOB NUMBER: B 4126

JOB NUMBER: B 4126

MAGNETIC DIRECTIONAL SURVEY
BY ANGLE AVERAGE METHOD

INRUN SURVEY
BY ANGLE AVERAGE METHOD

FOR

* ARCO OIL & GAS COMPANY *

MEAS. DEPTH VERT. DEPTH
92.00 92.00
143.00 142.98
234.00 233.58
326.00 324.35
396.00 392.95
502.00 495.82
574.00 567.37
665.00 655.86
757.00 744.07
844.22 833.00
1014.00 985.77
1102.86 1139.00
1244.19 1290.00
1386.44 1442.00
1564.41 1632.00
1787.00 1709.71
1854.30 1894.30
2078.00 2078.94
2180.00 2078.71

VERT. SECT. 0.00
1.32
9.82
24.80
38.74
59.84
74.12
95.27
121.36
156.09
208.43
252.37
305.55
359.09
425.63
479.59
532.58
579.71
614.80

COURSE DEV. 0.00
1.34
8.52
14.99
13.96
21.13
14.35
21.24
26.13
34.73
52.57
43.78
53.19
53.54
66.54
53.97
52.99
47.14
35.10

INCL. BEARING 00-00
03-00
07-45
11-00
12-00
11-00
12-00
15-00
18-00
20-15
20-30
20-30
20-45
20-30
20-30
20-15
20-00
20-15
20-00

COORDINATES LATITUDE 0.00 N
1.33 N
9.84 N
24.81 N
38.72 N
59.77 N
74.00 N
95.09 N
121.14 N
155.86 N
208.43 N
252.21 N
305.39 N
358.90 N
425.40 N
479.34 N
532.32 N
579.45 N
614.55 N

D-LEG DEPARTURE PER 100 0.00 E
0.14 W
0.25 W
0.20 E
1.66 E
3.14 E
5.01 E
7.34 E
9.65 E
10.25 E
9.80 E
9.41 E
0.72 E
11.75 E
14.07 E
15.72 E
16.87 E
17.28 E
17.59 E

STATION DISPLACEMENT DISP. DIRECTION
0.00 AT N00-00E
1.34 AT N06-00W
9.86 AT N03-24W
24.81 AT N00-28E
38.74 AT N01-55E
59.85 AT N03-00E
74.17 AT N03-52E
95.39 AT N04-34E
121.52 AT N04-33E
156.20 AT N03-44E
208.66 AT N02-41E
252.38 AT N02-08E
305.55 AT N01-51E
359.09 AT N01-52E
425.63 AT N01-54E
479.60 AT N01-53E
532.58 AT N01-49E
579.71 AT N01-43E
614.80 AT N01-38E

JOB NUMBER: B 4126
WELL NAME: CC 14-23
LOCATION: MIST OREGON
SURVEY DATE: 5 AUGUST 1986
SURVEY ENGINEER: MIKE MERRITT
MAGNETIC DECLINATION: 21.00E

TIE-ON COORDINATES AT: 92 M.D.
TAKEN FROM: DATA SURVEY SHEET

***** DEPTH MEASURED IN FEET *****
***** THIS DIRECTIONAL SURVEY REPORT IS *****
***** CORRECT TO THE BEST OF MY KNOWLEDGE ***
***** AND IS SUPPORTED BY ACTUAL FIELD DATA! **

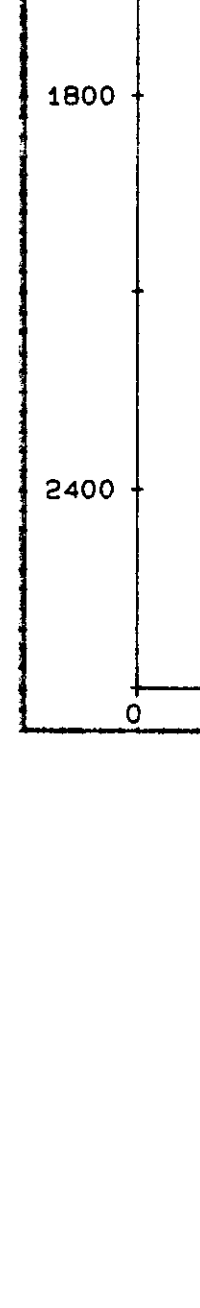
**
** COMPANY REPRESENTATIVE

**
** THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF
** AT 2180.00 FEET EQUALS 614.80 FEET AT N01-38E *
** 2180.00 FEET EQUALS 614.80 FEET AT N01-38E *

**
** THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF
** AT 1854.30 FEET EQUALS 614.80 FEET AT N01-38E *
** 1854.30 FEET EQUALS 614.80 FEET AT N01-38E *

**
** THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF
** AT 1787.00 FEET EQUALS 614.80 FEET AT N01-38E *
** 1787.00 FEET EQUALS 614.80 FEET AT N01-38E *

**
** THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF
** AT 1632.00 FEET EQUALS 614.80 FEET AT N01-38E *
** 1632.00 FEET EQUALS 614.80 FEET AT N01-38E *



DI-DRILL, INC.
VERTICAL PROJECTION
FOR
ARCO OIL & GAS COMPANY
JOB NUMBER: B 4126
WELL NAME: CC 14-23
DATE: 5 AUGUST 1986
SCALE: 300 FT/INCH

DI-DRILL, INC.
HORIZONTAL PROJECTION
FOR
ARCO OIL & GAS COMPANY
JOB NUMBER: B 4126
WELL NAME: CC 14-23
DATE: 5 AUGUST 1986
SCALE: 100 FT/INCH

HORIZ. DISP.
614.80 AT N01-38E



**
** THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF
** AT 1442.00 FEET EQUALS 614.80 FEET AT N01-38E *
** 1442.00 FEET EQUALS 614.80 FEET AT N01-38E *
