

ARCO OIL AND GAS (1385)
WELL: 32-20-65-R-RD 1
MIST FIELD, OREGON
DATE: 8/11/88
DEPT: 19 30 E
LOG: PAUL GRAHAM #4
SURVEY TYPE: MAGNETIC SINGLE SHOT
SURVEY BY: EASTMAN CHRISTENSEN
DIR, DRILLER: G. HUTCHINGS

SURVEYS FROM 0' M.D. TO 1533' M.D. ARE DRIFT ONLY - 1 DEGREE OR LESS.
THESE CALCULATIONS ASSUME HOLE IS VERTICAL TO 1533' M.D.

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: N 17 DEG. 0 MIN. W

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

PROD OIL AND GAS (1385)
 WELL: 32-20-65-R-RD 1
 HST FIELD, DRIFTON

COMPUTATION DATE
 TIME 12:50:24 17-AUG-88
 PAGE NO. 1

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR CORRECTION FEET	LOGGED SEVERITY DG/100FT
1533.	0 0	0 0	0.	1533.00	0.00	0.00	0.00
1558.	1 30	S 71	25.	1558.00	-0.19	0.11 S	0.31 E
1615.	1 0	S 40	57.	1614.98	-1.15	0.80 S	1.32 E
1677.	1 30	N 25	62.	1676.97	-0.90	0.30 S	2.11 E
1738.	3 15	N 13	61.	1737.91	1.62	2.08 N	1.29 E
1800.	5 30	N 22	62.	1799.73	6.34	6.59 N	0.13 W
1938.	8 0	N 19	138.	1936.76	22.53	21.78 N	5.81 W
2033.	8 0	N 18	95.	2030.84	35.74	34.32 N	10.01 W
2126.	7 45	N 17	93.	2122.96	48.49	46.47 N	13.84 W
2313.	8 15	N 21	187.	2308.14	74.49	71.07 N	22.31 W
2423.	8 0	N 17	110.	2417.04	90.03	85.77 N	27.37 W
2547.	7 45	N 8	124.	2539.87	106.95	102.34 N	31.05 W
2675.	6 45	N 6	128.	2666.84	122.85	118.37 N	33.02 W
2891.	6 15	N 5	216.	2881.45	146.81	142.71 N	35.36 W
3088.	8 0	N 29	197.	3076.92	167.87	166.26 N	30.55 W

FINAL CLOSURE - DIRECTION: N 10 DEGS 21 MINS W
 DISTANCE: 169.01 FEET

ARCO OIL AND GAS (1385)
WELL, 32-20-65-R-RD J
MIST FIELD, OREGON

HORIZONTAL PROJECTION
SCALE 1 IN. = 50 FEET
DEPTH INDICATOR: MD

FINAL STATION:
DEPTH 3088 MD, 3076.92 TVD
NORTH 166.26 WEST 30.35
CLOSURE 189.01 N 10 20 46 W

