

SCIENTIFIC DRILLING INT'L
SURVEY CALCULATION REPORT
ver - 1.27A

Company: NEARBURG PRODUCING Probe #: 2086
Location: LEA COUNTY, NEW MEXICO Section Plane: N 48.35 E
Field: Well no: WESTERN 17F STATE#1
Declination: 9.00E Vertical Section Origin:
Operator: SCIENTIFIC DRILLING INTL. North: 0.00 East: 0.00
Time: Wed Feb 27 23:55:40 1991
Filename: NPW17FS1 Depth Units -> FEET
Comments: MAGNETIC MULTISHOT(9722'-11582')

Data Source (D.S.) types : (Manually entered data starts with '*')

CS - CHAMP Singleshot MS - Magnetic SS TD - Total Depth
CM - CHAMP Multishot MM - Magnetic MS TI - Tiein Point
CC - CHAMP Compensated MW - M.W.D.
GS - Gyro Singleshot PR - Projection
GM - Gyro Multishot ST - Steering Tool

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	T O T A L Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
9690.0	3.34	N 59.50W	9687.0	32.8N	73.3W	-33.0	0.00	*TI
9722.0	2.07	N 59.91W	9719.0	33.6N	74.6W	-33.4	3.96	CM
9815.0	4.54	N 9.03E	9811.8	38.0N	75.5W	-31.1	4.58	CM
9908.0	6.51	N 53.32E	9904.4	44.8N	70.7W	-23.0	4.89	CM
10001.0	8.62	N 63.34E	9996.6	51.1N	60.2W	-11.0	2.67	CM
10094.0	9.70	N 58.20E	10088.4	58.4N	47.3W	3.4	1.46	CM
10187.0	10.45	N 54.01E	10180.0	67.5N	33.8W	19.5	1.12	CM
10280.0	10.79	N 55.74E	10271.4	77.3N	19.8W	36.6	0.50	CM
10373.0	10.34	N 57.00E	10362.8	86.8N	5.6W	53.5	0.54	CM
10466.0	9.73	N 56.75E	10454.4	95.6N	7.9E	69.5	0.66	CM
10559.0	8.86	N 57.90E	10546.2	103.7N	20.6E	84.3	0.95	CM
10652.0	8.96	N 56.04E	10638.1	111.6N	32.7E	98.6	0.33	CM
10745.0	8.18	N 55.35E	10730.0	119.4N	44.1E	112.3	0.84	CM
10838.0	7.03	N 55.29E	10822.2	126.4N	54.2E	124.5	1.24	CM
10931.0	7.10	N 51.79E	10914.5	133.2N	63.4E	135.9	0.47	CM
11024.0	6.44	N 69.99E	11006.9	138.5N	72.9E	146.5	2.40	CM
11117.0	8.02	N 86.21E	11099.1	140.7N	84.2E	156.5	2.76	CM
11210.0	9.39	N 86.85E	11191.1	141.6N	98.3E	167.5	1.48	CM
11303.0	8.84	N 87.56E	11282.9	142.3N	113.0E	179.0	0.61	CM
11396.0	8.20	S 89.05E	11374.9	142.5N	126.8E	189.4	0.88	CM
11489.0	8.30	N 89.85E	11466.9	142.4N	140.1E	199.3	0.20	CM
11582.0	7.31	S 89.22E	11559.0	142.3N	152.7E	208.7	1.07	CM
CLOSURE:	Distance	-	208.78					
	Direction	-	N47.02E					

BHL 1988/N + 2283/W well is 357' from East boundary of PU
S/2 NW/4