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 -----SCHLUMBERGER-----
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SCHLUMBERGER DIRECTIONAL SURVEY

CONTINENTAL OIL COMPANY

FEDERAL 21-2

SOUTH MC CALLUM FIELD

JACKSON COUNTY, COLORADO

RUN NO. ONE 314 - 6254

OCTOBER 11, 1974

START DEPTH OF SURVEY IS CASING AT 314 FEET

TANGENTIAL METHOD

REFERENCE JOB 1762.

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE		
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH	* FEET

* FEET	* DEGREES	* DEGREES	* FEET	* - SOUTH	* - WEST	* FEET	* FEET

* 314.0	* 0.1	* 91.0	* 314.0	* 0.0	* 0.0	* 0.0	* 0.0
* 320.0	* 0.1	* 91.0	* 320.0	* -0.0	* 0.0	* 0.0	* 0.0
* 330.0	* 0.1	* 91.0	* 330.0	* -0.0	* 0.0	* 0.0	* 0.0
* 340.0	* 0.1	* 91.0	* 340.0	* -0.0	* 0.0	* 0.0	* 0.0
* 350.0	* 0.1	* 91.0	* 350.0	* -0.0	* 0.1	* 0.1	* 0.1
* 360.0	* 0.1	* 91.0	* 360.0	* -0.0	* 0.1	* 0.1	* 0.1
* 370.0	* 0.1	* 91.0	* 370.0	* -0.0	* 0.1	* 0.1	* 0.1
* 380.0	* 0.1	* 91.0	* 380.0	* -0.0	* 0.1	* 0.1	* 0.1
* 390.0	* 0.1	* 91.0	* 390.0	* -0.0	* 0.1	* 0.1	* 0.1
* 400.0	* 0.1	* 91.0	* 400.0	* -0.0	* 0.2	* 0.2	* 0.2
* 410.0	* 0.1	* 90.9	* 410.0	* -0.0	* 0.2	* 0.2	* 0.2
* 420.0	* 0.1	* 90.8	* 420.0	* -0.0	* 0.2	* 0.2	* 0.2
* 430.0	* 0.1	* 90.7	* 430.0	* -0.0	* 0.2	* 0.2	* 0.2
* 440.0	* 0.1	* 90.6	* 440.0	* -0.0	* 0.2	* 0.2	* 0.2
* 450.0	* 0.1	* 90.5	* 450.0	* -0.0	* 0.2	* 0.2	* 0.2
* 460.0	* 0.1	* 90.4	* 460.0	* -0.0	* 0.3	* 0.3	* 0.3
* 470.0	* 0.1	* 90.3	* 470.0	* -0.0	* 0.3	* 0.3	* 0.3
* 480.0	* 0.1	* 90.2	* 480.0	* -0.0	* 0.3	* 0.3	* 0.3
* 490.0	* 0.1	* 90.1	* 490.0	* -0.0	* 0.3	* 0.3	* 0.3
* 500.0	* 0.1	* 90.0	* 500.0	* -0.0	* 0.3	* 0.3	* 0.3
* 510.0	* 0.1	* 88.4	* 510.0	* 0.0	* 0.3	* 0.3	* 0.3
* 520.0	* 0.1	* 86.8	* 520.0	* 0.0	* 0.4	* 0.4	* 0.4
* 530.0	* 0.1	* 85.2	* 530.0	* 0.0	* 0.4	* 0.4	* 0.4
* 540.0	* 0.1	* 83.6	* 540.0	* 0.0	* 0.4	* 0.4	* 0.4
* 550.0	* 0.1	* 82.0	* 550.0	* 0.0	* 0.4	* 0.4	* 0.4
* 560.0	* 0.1	* 80.4	* 560.0	* 0.0	* 0.4	* 0.4	* 0.4
* 570.0	* 0.1	* 78.8	* 570.0	* 0.0	* 0.4	* 0.4	* 0.4
* 580.0	* 0.1	* 77.2	* 580.0	* 0.0	* 0.5	* 0.5	* 0.5
* 590.0	* 0.1	* 75.6	* 590.0	* 0.0	* 0.5	* 0.5	* 0.5
* 600.0	* 0.1	* 74.0	* 600.0	* 0.0	* 0.5	* 0.5	* 0.5
* 610.0	* 0.1	* 75.8	* 610.0	* 0.0	* 0.5	* 0.5	* 0.5
* 620.0	* 0.1	* 77.6	* 620.0	* 0.0	* 0.6	* 0.6	* 0.6
* 630.0	* 0.1	* 79.4	* 630.0	* 0.0	* 0.6	* 0.6	* 0.6
* 640.0	* 0.1	* 81.2	* 640.0	* 0.0	* 0.6	* 0.6	* 0.6
* 650.0	* 0.2	* 83.0	* 650.0	* 0.0	* 0.7	* 0.7	* 0.7
* 660.0	* 0.2	* 84.8	* 660.0	* 0.0	* 0.7	* 0.7	* 0.7
* 670.0	* 0.2	* 86.6	* 670.0	* 0.0	* 0.7	* 0.7	* 0.7
* 680.0	* 0.2	* 88.4	* 680.0	* 0.0	* 0.8	* 0.8	* 0.8
* 690.0	* 0.2	* 90.2	* 690.0	* 0.0	* 0.8	* 0.8	* 0.8
* 700.0	* 0.2	* 92.0	* 700.0	* 0.0	* 0.8	* 0.8	* 0.8
* 710.0	* 0.2	* 91.2	* 710.0	* 0.0	* 0.9	* 0.9	* 0.9
* 720.0	* 0.2	* 90.4	* 720.0	* 0.0	* 0.9	* 0.9	* 0.9
* 730.0	* 0.2	* 89.6	* 730.0	* 0.0	* 0.9	* 0.9	* 0.9
* 740.0	* 0.2	* 88.8	* 740.0	* 0.0	* 1.0	* 1.0	* 1.0
* 750.0	* 0.2	* 88.0	* 750.0	* 0.1	* 1.0	* 1.0	* 1.0
* 760.0	* 0.2	* 87.2	* 760.0	* 0.1	* 1.0	* 1.1	* 1.1

* DEPTH *	* DEVIATION *	* AZIMUTH *	* TRUE VERTICAL *	* CO-ORDINATES *		* COURSE *	
* FEET *	* DEGREES *	* DEGREES *	* DEPTH *	* + NORTH *	* + EAST *	* LENGTH *	
			* FEET *	* - SOUTH *	* - WEST *	* FEET *	

* 770.0 *	* 0.2 *	* 86.4 *	* 770.0 *	* 0.1 *	* 1.1 *	* 1.1 *	
* 780.0 *	* 0.2 *	* 85.6 *	* 780.0 *	* 0.1 *	* 1.1 *	* 1.1 *	
* 790.0 *	* 0.2 *	* 84.8 *	* 790.0 *	* 0.1 *	* 1.2 *	* 1.2 *	
* 800.0 *	* 0.2 *	* 84.0 *	* 800.0 *	* 0.1 *	* 1.2 *	* 1.2 *	
* 810.0 *	* 0.2 *	* 84.5 *	* 810.0 *	* 0.1 *	* 1.2 *	* 1.2 *	
* 820.0 *	* 0.2 *	* 85.0 *	* 820.0 *	* 0.1 *	* 1.3 *	* 1.3 *	
* 830.0 *	* 0.2 *	* 85.5 *	* 830.0 *	* 0.1 *	* 1.3 *	* 1.3 *	
* 840.0 *	* 0.2 *	* 86.0 *	* 840.0 *	* 0.1 *	* 1.3 *	* 1.3 *	
* 850.0 *	* 0.2 *	* 86.5 *	* 850.0 *	* 0.1 *	* 1.4 *	* 1.4 *	
* 860.0 *	* 0.2 *	* 87.0 *	* 860.0 *	* 0.1 *	* 1.4 *	* 1.4 *	
* 870.0 *	* 0.2 *	* 87.5 *	* 870.0 *	* 0.1 *	* 1.4 *	* 1.4 *	
* 880.0 *	* 0.2 *	* 88.0 *	* 880.0 *	* 0.1 *	* 1.5 *	* 1.5 *	
* 890.0 *	* 0.2 *	* 88.5 *	* 890.0 *	* 0.1 *	* 1.5 *	* 1.5 *	
* 900.0 *	* 0.2 *	* 89.0 *	* 900.0 *	* 0.1 *	* 1.5 *	* 1.5 *	
* 910.0 *	* 0.2 *	* 88.9 *	* 910.0 *	* 0.1 *	* 1.6 *	* 1.6 *	
* 920.0 *	* 0.2 *	* 88.8 *	* 920.0 *	* 0.1 *	* 1.6 *	* 1.6 *	
* 930.0 *	* 0.2 *	* 88.7 *	* 930.0 *	* 0.1 *	* 1.6 *	* 1.6 *	
* 940.0 *	* 0.2 *	* 88.6 *	* 940.0 *	* 0.1 *	* 1.7 *	* 1.7 *	
* 950.0 *	* 0.2 *	* 88.5 *	* 950.0 *	* 0.1 *	* 1.7 *	* 1.7 *	
* 960.0 *	* 0.2 *	* 88.4 *	* 960.0 *	* 0.1 *	* 1.7 *	* 1.7 *	
* 970.0 *	* 0.2 *	* 88.3 *	* 970.0 *	* 0.1 *	* 1.8 *	* 1.8 *	
* 980.0 *	* 0.2 *	* 88.2 *	* 980.0 *	* 0.1 *	* 1.8 *	* 1.8 *	
* 990.0 *	* 0.2 *	* 88.1 *	* 990.0 *	* 0.1 *	* 1.9 *	* 1.9 *	
* 1000.0 *	* 0.2 *	* 88.0 *	* 1000.0 *	* 0.1 *	* 1.9 *	* 1.9 *	
* 1010.0 *	* 0.2 *	* 87.5 *	* 1010.0 *	* 0.1 *	* 2.0 *	* 2.0 *	
* 1020.0 *	* 0.2 *	* 87.0 *	* 1020.0 *	* 0.1 *	* 2.0 *	* 2.0 *	
* 1030.0 *	* 0.3 *	* 86.5 *	* 1030.0 *	* 0.1 *	* 2.1 *	* 2.1 *	
* 1040.0 *	* 0.3 *	* 86.0 *	* 1040.0 *	* 0.1 *	* 2.2 *	* 2.2 *	
* 1050.0 *	* 0.3 *	* 85.5 *	* 1050.0 *	* 0.1 *	* 2.2 *	* 2.2 *	
* 1060.0 *	* 0.3 *	* 85.0 *	* 1060.0 *	* 0.1 *	* 2.3 *	* 2.3 *	
* 1070.0 *	* 0.3 *	* 84.5 *	* 1070.0 *	* 0.1 *	* 2.4 *	* 2.4 *	
* 1080.0 *	* 0.4 *	* 84.0 *	* 1080.0 *	* 0.2 *	* 2.4 *	* 2.4 *	
* 1090.0 *	* 0.4 *	* 83.5 *	* 1090.0 *	* 0.2 *	* 2.5 *	* 2.5 *	
* 1100.0 *	* 0.4 *	* 83.0 *	* 1100.0 *	* 0.2 *	* 2.6 *	* 2.6 *	
* 1110.0 *	* 0.4 *	* 81.5 *	* 1110.0 *	* 0.2 *	* 2.6 *	* 2.7 *	
* 1120.0 *	* 0.4 *	* 80.0 *	* 1120.0 *	* 0.2 *	* 2.7 *	* 2.7 *	
* 1130.0 *	* 0.4 *	* 78.5 *	* 1130.0 *	* 0.3 *	* 2.8 *	* 2.8 *	
* 1140.0 *	* 0.4 *	* 77.0 *	* 1140.0 *	* 0.3 *	* 2.8 *	* 2.9 *	
* 1150.0 *	* 0.4 *	* 75.5 *	* 1150.0 *	* 0.3 *	* 2.9 *	* 2.9 *	
* 1160.0 *	* 0.4 *	* 74.0 *	* 1160.0 *	* 0.3 *	* 3.0 *	* 3.0 *	
* 1170.0 *	* 0.4 *	* 72.5 *	* 1170.0 *	* 0.4 *	* 3.0 *	* 3.1 *	
* 1180.0 *	* 0.4 *	* 71.0 *	* 1180.0 *	* 0.4 *	* 3.1 *	* 3.1 *	
* 1190.0 *	* 0.4 *	* 69.5 *	* 1190.0 *	* 0.4 *	* 3.2 *	* 3.2 *	
* 1200.0 *	* 0.4 *	* 68.0 *	* 1200.0 *	* 0.4 *	* 3.2 *	* 3.3 *	
* 1210.0 *	* 0.5 *	* 66.8 *	* 1210.0 *	* 0.5 *	* 3.4 *	* 3.4 *	
* 1220.0 *	* 0.5 *	* 65.6 *	* 1220.0 *	* 0.6 *	* 3.5 *	* 3.6 *	

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE			*
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH	* FEET	*
			* FEET	* - SOUTH	* - WEST			*

* 1230.0	* 0.6	* 64.4	* 1230.0	* 0.7	* 3.7	* 3.7	*	*
* 1240.0	* 0.6	* 63.2	* 1240.0	* 0.8	* 3.8	* 3.9	*	*
* 1250.0	* 0.7	* 62.0	* 1250.0	* 0.9	* 3.9	* 4.1	*	*
* 1260.0	* 0.8	* 60.8	* 1260.0	* 1.0	* 4.1	* 4.2	*	*
* 1270.0	* 0.8	* 59.6	* 1270.0	* 1.1	* 4.2	* 4.4	*	*
* 1280.0	* 0.9	* 58.4	* 1280.0	* 1.2	* 4.4	* 4.5	*	*
* 1290.0	* 0.9	* 57.2	* 1290.0	* 1.3	* 4.5	* 4.7	*	*
* 1300.0	* 1.0	* 56.0	* 1300.0	* 1.4	* 4.7	* 4.9	*	*
* 1310.0	* 1.0	* 55.3	* 1310.0	* 1.6	* 4.8	* 5.1	*	*
* 1320.0	* 1.1	* 54.6	* 1320.0	* 1.7	* 5.0	* 5.3	*	*
* 1330.0	* 1.1	* 53.9	* 1330.0	* 1.9	* 5.2	* 5.5	*	*
* 1340.0	* 1.1	* 53.2	* 1340.0	* 2.0	* 5.4	* 5.7	*	*
* 1350.0	* 1.2	* 52.5	* 1350.0	* 2.2	* 5.5	* 5.9	*	*
* 1360.0	* 1.2	* 51.8	* 1360.0	* 2.3	* 5.7	* 6.1	*	*
* 1370.0	* 1.2	* 51.1	* 1370.0	* 2.5	* 5.9	* 6.4	*	*
* 1380.0	* 1.2	* 50.4	* 1380.0	* 2.6	* 6.0	* 6.6	*	*
* 1390.0	* 1.3	* 49.7	* 1390.0	* 2.8	* 6.2	* 6.8	*	*
* 1400.0	* 1.3	* 49.0	* 1400.0	* 2.9	* 6.4	* 7.0	*	*
* 1410.0	* 1.3	* 48.4	* 1409.9	* 3.0	* 6.5	* 7.2	*	*
* 1420.0	* 1.2	* 47.8	* 1419.9	* 3.2	* 6.6	* 7.3	*	*
* 1430.0	* 1.2	* 47.2	* 1429.9	* 3.3	* 6.7	* 7.5	*	*
* 1440.0	* 1.2	* 46.6	* 1439.9	* 3.4	* 6.9	* 7.7	*	*
* 1450.0	* 1.2	* 46.0	* 1449.9	* 3.5	* 7.0	* 7.8	*	*
* 1460.0	* 1.1	* 45.4	* 1459.9	* 3.7	* 7.1	* 8.0	*	*
* 1470.0	* 1.1	* 44.8	* 1469.9	* 3.8	* 7.2	* 8.2	*	*
* 1480.0	* 1.1	* 44.2	* 1479.9	* 3.9	* 7.3	* 8.3	*	*
* 1490.0	* 1.0	* 43.6	* 1489.9	* 4.0	* 7.5	* 8.5	*	*
* 1500.0	* 1.0	* 43.0	* 1499.9	* 4.2	* 7.6	* 8.7	*	*
* 1510.0	* 1.0	* 43.0	* 1509.9	* 4.3	* 7.7	* 8.8	*	*
* 1520.0	* 1.0	* 43.0	* 1519.9	* 4.4	* 7.8	* 9.0	*	*
* 1530.0	* 1.0	* 43.0	* 1529.9	* 4.6	* 7.9	* 9.1	*	*
* 1540.0	* 1.0	* 43.0	* 1539.9	* 4.7	* 8.1	* 9.3	*	*
* 1550.0	* 1.0	* 43.0	* 1549.9	* 4.8	* 8.2	* 9.5	*	*
* 1560.0	* 1.0	* 43.0	* 1559.9	* 4.9	* 8.3	* 9.7	*	*
* 1570.0	* 1.0	* 43.0	* 1569.9	* 5.1	* 8.4	* 9.8	*	*
* 1580.0	* 1.0	* 43.0	* 1579.9	* 5.2	* 8.5	* 10.0	*	*
* 1590.0	* 1.0	* 43.0	* 1589.9	* 5.3	* 8.6	* 10.2	*	*
* 1600.0	* 1.0	* 43.0	* 1599.9	* 5.5	* 8.8	* 10.3	*	*
* 1610.0	* 1.0	* 43.2	* 1609.9	* 5.6	* 8.9	* 10.5	*	*
* 1620.0	* 1.0	* 43.4	* 1619.9	* 5.7	* 9.0	* 10.7	*	*
* 1630.0	* 1.0	* 43.6	* 1629.9	* 5.8	* 9.1	* 10.8	*	*
* 1640.0	* 1.0	* 43.8	* 1639.9	* 5.9	* 9.3	* 11.0	*	*
* 1650.0	* 1.0	* 44.0	* 1649.9	* 6.1	* 9.4	* 11.2	*	*
* 1660.0	* 1.0	* 44.2	* 1659.9	* 6.2	* 9.5	* 11.3	*	*
* 1670.0	* 1.0	* 44.4	* 1669.9	* 6.3	* 9.6	* 11.5	*	*
* 1680.0	* 1.0	* 44.6	* 1679.9	* 6.4	* 9.8	* 11.7	*	*

* DEPTH *	* DEVIATION *	* AZIMUTH *	* TRUE * * VERTICAL *	* CO-ORDINATES *		* COURSE *	
* FEET *	* DEGREES *	* DEGREES *	* DEPTH * * FEET *	* + NORTH *	* + EAST *	* LENGTH *	* FEET *

* 3530.0 *	* 5.2 *	* 30.1 *	* 3526.2 *	* 90.3 *	* 78.2 *	* 119.4 *	
* 3540.0 *	* 5.2 *	* 29.8 *	* 3536.1 *	* 91.1 *	* 78.6 *	* 120.3 *	
* 3550.0 *	* 5.2 *	* 29.5 *	* 3546.1 *	* 91.9 *	* 79.0 *	* 121.2 *	
* 3560.0 *	* 5.2 *	* 29.2 *	* 3556.0 *	* 92.8 *	* 79.5 *	* 122.1 *	
* 3570.0 *	* 5.2 *	* 28.9 *	* 3566.0 *	* 93.6 *	* 79.9 *	* 123.1 *	
* 3580.0 *	* 5.3 *	* 28.6 *	* 3575.9 *	* 94.4 *	* 80.3 *	* 124.0 *	
* 3590.0 *	* 5.3 *	* 28.3 *	* 3585.9 *	* 95.2 *	* 80.8 *	* 124.9 *	
* 3600.0 *	* 5.3 *	* 28.0 *	* 3595.9 *	* 96.0 *	* 81.2 *	* 125.8 *	
* 3610.0 *	* 5.3 *	* 27.7 *	* 3605.8 *	* 96.9 *	* 81.6 *	* 126.7 *	
* 3620.0 *	* 5.4 *	* 27.4 *	* 3615.8 *	* 97.8 *	* 82.0 *	* 127.7 *	
* 3630.0 *	* 5.4 *	* 27.1 *	* 3625.7 *	* 98.7 *	* 82.5 *	* 128.6 *	
* 3640.0 *	* 5.5 *	* 26.8 *	* 3635.7 *	* 99.6 *	* 82.9 *	* 129.6 *	
* 3650.0 *	* 5.5 *	* 26.5 *	* 3645.6 *	* 100.5 *	* 83.3 *	* 130.6 *	
* 3660.0 *	* 5.5 *	* 26.2 *	* 3655.6 *	* 101.4 *	* 83.7 *	* 131.5 *	
* 3670.0 *	* 5.6 *	* 25.9 *	* 3665.5 *	* 102.3 *	* 84.1 *	* 132.5 *	
* 3680.0 *	* 5.6 *	* 25.6 *	* 3675.5 *	* 103.2 *	* 84.6 *	* 133.4 *	
* 3690.0 *	* 5.7 *	* 25.3 *	* 3685.4 *	* 104.1 *	* 85.0 *	* 134.4 *	
* 3700.0 *	* 5.7 *	* 25.0 *	* 3695.4 *	* 105.0 *	* 85.4 *	* 135.4 *	
* 3710.0 *	* 5.7 *	* 24.8 *	* 3705.3 *	* 106.0 *	* 85.8 *	* 136.4 *	
* 3720.0 *	* 5.8 *	* 24.6 *	* 3715.2 *	* 106.9 *	* 86.2 *	* 137.4 *	
* 3730.0 *	* 5.8 *	* 24.4 *	* 3725.2 *	* 107.9 *	* 86.6 *	* 138.4 *	
* 3740.0 *	* 5.8 *	* 24.2 *	* 3735.1 *	* 108.9 *	* 87.0 *	* 139.4 *	
* 3750.0 *	* 5.9 *	* 24.0 *	* 3745.1 *	* 109.8 *	* 87.4 *	* 140.4 *	
* 3760.0 *	* 5.9 *	* 23.8 *	* 3755.0 *	* 110.8 *	* 87.9 *	* 141.4 *	
* 3770.0 *	* 5.9 *	* 23.6 *	* 3765.0 *	* 111.8 *	* 88.3 *	* 142.4 *	
* 3780.0 *	* 5.9 *	* 23.4 *	* 3774.9 *	* 112.7 *	* 88.7 *	* 143.4 *	
* 3790.0 *	* 6.0 *	* 23.2 *	* 3784.9 *	* 113.7 *	* 89.1 *	* 144.4 *	
* 3800.0 *	* 6.0 *	* 23.0 *	* 3794.8 *	* 114.6 *	* 89.5 *	* 145.4 *	
* 3810.0 *	* 6.0 *	* 22.7 *	* 3804.7 *	* 115.7 *	* 89.9 *	* 146.5 *	
* 3820.0 *	* 6.1 *	* 22.4 *	* 3814.7 *	* 116.7 *	* 90.3 *	* 147.6 *	
* 3830.0 *	* 6.1 *	* 22.1 *	* 3824.6 *	* 117.8 *	* 90.6 *	* 148.6 *	
* 3840.0 *	* 6.2 *	* 21.8 *	* 3834.6 *	* 118.8 *	* 91.0 *	* 149.7 *	
* 3850.0 *	* 6.2 *	* 21.5 *	* 3844.5 *	* 119.9 *	* 91.4 *	* 150.7 *	
* 3860.0 *	* 6.2 *	* 21.2 *	* 3854.4 *	* 120.9 *	* 91.8 *	* 151.8 *	
* 3870.0 *	* 6.3 *	* 20.9 *	* 3864.4 *	* 122.0 *	* 92.2 *	* 152.9 *	
* 3880.0 *	* 6.3 *	* 20.6 *	* 3874.3 *	* 123.0 *	* 92.5 *	* 153.9 *	
* 3890.0 *	* 6.4 *	* 20.3 *	* 3884.2 *	* 124.1 *	* 92.9 *	* 155.0 *	
* 3900.0 *	* 6.4 *	* 20.0 *	* 3894.2 *	* 125.1 *	* 93.3 *	* 156.1 *	
* 3910.0 *	* 6.4 *	* 20.3 *	* 3904.1 *	* 126.2 *	* 93.7 *	* 157.2 *	
* 3920.0 *	* 6.4 *	* 20.6 *	* 3914.1 *	* 127.2 *	* 94.2 *	* 158.3 *	
* 3930.0 *	* 6.4 *	* 20.9 *	* 3924.0 *	* 128.2 *	* 94.6 *	* 159.4 *	
* 3940.0 *	* 6.4 *	* 21.2 *	* 3933.9 *	* 129.3 *	* 95.1 *	* 160.5 *	
* 3950.0 *	* 6.4 *	* 21.5 *	* 3943.9 *	* 130.3 *	* 95.5 *	* 161.6 *	
* 3960.0 *	* 6.5 *	* 21.8 *	* 3953.8 *	* 131.4 *	* 96.0 *	* 162.7 *	
* 3970.0 *	* 6.5 *	* 22.1 *	* 3963.7 *	* 132.4 *	* 96.4 *	* 163.8 *	
* 3980.0 *	* 6.5 *	* 22.4 *	* 3973.7 *	* 133.5 *	* 96.8 *	* 164.9 *	

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH * + EAST * - SOUTH * - WEST	* LENGTH
			* DEPTH	* FEET	* FEET
* 3990.0	* 6.5	* 22.7	* 3983.6	* 134.5 * 97.3	* 166.0
* 4000.0	* 6.5	* 23.0	* 3993.5	* 135.5 * 97.7	* 167.1
* 4010.0	* 6.5	* 23.0	* 4003.5	* 136.5 * 98.2	* 168.2
* 4020.0	* 6.5	* 23.0	* 4013.4	* 137.6 * 98.6	* 169.2
* 4030.0	* 6.4	* 23.0	* 4023.4	* 138.6 * 99.0	* 170.3
* 4040.0	* 6.4	* 23.0	* 4033.3	* 139.6 * 99.4	* 171.4
* 4050.0	* 6.4	* 23.0	* 4043.2	* 140.6 * 99.9	* 172.5
* 4060.0	* 6.4	* 23.0	* 4053.2	* 141.6 * 100.3	* 173.5
* 4070.0	* 6.4	* 23.0	* 4063.1	* 142.6 * 100.7	* 174.6
* 4080.0	* 6.3	* 23.0	* 4073.1	* 143.6 * 101.2	* 175.7
* 4090.0	* 6.3	* 23.0	* 4083.0	* 144.6 * 101.6	* 176.7
* 4100.0	* 6.3	* 23.0	* 4092.9	* 145.6 * 102.0	* 177.8
* 4110.0	* 6.3	* 23.0	* 4102.9	* 146.7 * 102.5	* 178.9
* 4120.0	* 6.4	* 23.0	* 4112.8	* 147.8 * 102.9	* 180.1
* 4130.0	* 6.4	* 23.0	* 4122.7	* 148.8 * 103.4	* 181.2
* 4140.0	* 6.4	* 23.0	* 4132.7	* 149.9 * 103.8	* 182.3
* 4150.0	* 6.5	* 23.0	* 4142.6	* 150.9 * 104.3	* 183.4
* 4160.0	* 6.5	* 23.0	* 4152.5	* 152.0 * 104.7	* 184.6
* 4170.0	* 6.5	* 23.0	* 4162.5	* 153.0 * 105.2	* 185.7
* 4180.0	* 6.5	* 23.0	* 4172.4	* 154.1 * 105.6	* 186.8
* 4190.0	* 6.6	* 23.0	* 4182.3	* 155.2 * 106.1	* 187.9
* 4200.0	* 6.6	* 23.0	* 4192.3	* 156.2 * 106.5	* 189.1
* 4210.0	* 6.6	* 22.2	* 4202.2	* 157.3 * 106.8	* 190.2
* 4220.0	* 6.6	* 21.4	* 4212.1	* 158.4 * 107.1	* 191.2
* 4230.0	* 6.6	* 20.6	* 4222.1	* 159.6 * 107.4	* 192.3
* 4240.0	* 6.6	* 19.8	* 4232.0	* 160.7 * 107.7	* 193.4
* 4250.0	* 6.6	* 19.0	* 4241.9	* 161.8 * 108.0	* 194.5
* 4260.0	* 6.6	* 18.2	* 4251.9	* 162.9 * 108.3	* 195.6
* 4270.0	* 6.6	* 17.4	* 4261.8	* 164.0 * 108.6	* 196.7
* 4280.0	* 6.6	* 16.6	* 4271.7	* 165.1 * 108.9	* 197.8
* 4290.0	* 6.6	* 15.8	* 4281.7	* 166.2 * 109.2	* 198.9
* 4300.0	* 6.6	* 15.0	* 4291.6	* 167.3 * 109.5	* 200.0
* 4310.0	* 6.6	* 14.7	* 4301.5	* 168.5 * 109.7	* 201.1
* 4320.0	* 6.7	* 14.4	* 4311.5	* 169.7 * 110.0	* 202.2
* 4330.0	* 6.7	* 14.1	* 4321.4	* 170.9 * 110.2	* 203.4
* 4340.0	* 6.8	* 13.8	* 4331.3	* 172.1 * 110.5	* 204.5
* 4350.0	* 6.8	* 13.5	* 4341.2	* 173.3 * 110.7	* 205.6
* 4360.0	* 6.8	* 13.2	* 4351.2	* 174.5 * 111.0	* 206.8
* 4370.0	* 6.9	* 12.9	* 4361.1	* 175.7 * 111.3	* 207.9
* 4380.0	* 6.9	* 12.6	* 4371.0	* 176.9 * 111.5	* 209.1
* 4390.0	* 7.0	* 12.3	* 4380.9	* 178.1 * 111.8	* 210.2
* 4400.0	* 7.0	* 12.0	* 4390.9	* 179.2 * 112.0	* 211.4
* 4410.0	* 7.0	* 11.9	* 4400.8	* 180.5 * 112.3	* 212.6
* 4420.0	* 7.1	* 11.8	* 4410.7	* 181.7 * 112.5	* 213.7
* 4430.0	* 7.1	* 11.7	* 4420.6	* 183.0 * 112.7	* 214.9
* 4440.0	* 7.1	* 11.6	* 4430.5	* 184.2 * 113.0	* 216.1

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES		* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH	* FEET
			* DEPTH	* - SOUTH	* - WEST		

			* FEET				
* 4450.0	* 7.2	* 11.5	* 4440.5	* 185.5	* 113.2	* 217.3	*
* 4460.0	* 7.2	* 11.4	* 4450.4	* 186.7	* 113.5	* 218.5	*
* 4470.0	* 7.2	* 11.3	* 4460.3	* 188.0	* 113.7	* 219.7	*
* 4480.0	* 7.2	* 11.2	* 4470.2	* 189.2	* 114.0	* 220.9	*
* 4490.0	* 7.3	* 11.1	* 4480.1	* 190.5	* 114.2	* 222.1	*
* 4500.0	* 7.3	* 11.0	* 4490.1	* 191.7	* 114.4	* 223.3	*
* 4510.0	* 7.3	* 10.7	* 4500.0	* 193.0	* 114.6	* 224.5	*
* 4520.0	* 7.4	* 10.4	* 4509.9	* 194.3	* 114.8	* 225.7	*
* 4530.0	* 7.4	* 10.1	* 4519.8	* 195.6	* 115.0	* 226.9	*
* 4540.0	* 7.4	* 9.8	* 4529.7	* 197.0	* 115.2	* 228.2	*
* 4550.0	* 7.5	* 9.5	* 4539.6	* 198.3	* 115.4	* 229.4	*
* 4560.0	* 7.5	* 9.2	* 4549.5	* 199.6	* 115.5	* 230.6	*
* 4570.0	* 7.5	* 8.9	* 4559.4	* 200.9	* 115.7	* 231.8	*
* 4580.0	* 7.5	* 8.6	* 4569.4	* 202.2	* 115.9	* 233.1	*
* 4590.0	* 7.6	* 8.3	* 4579.3	* 203.5	* 116.1	* 234.3	*
* 4600.0	* 7.6	* 8.0	* 4589.2	* 204.8	* 116.3	* 235.5	*
* 4610.0	* 7.7	* 8.8	* 4599.1	* 206.3	* 116.8	* 237.0	*
* 4620.0	* 7.8	* 9.7	* 4608.9	* 207.7	* 117.2	* 238.5	*
* 4630.0	* 7.9	* 10.5	* 4618.8	* 209.2	* 117.7	* 240.0	*
* 4640.0	* 8.0	* 11.3	* 4628.7	* 210.6	* 118.2	* 241.5	*
* 4650.0	* 8.1	* 12.2	* 4638.6	* 212.1	* 118.6	* 243.0	*
* 4660.0	* 8.2	* 13.0	* 4648.5	* 213.5	* 119.1	* 244.5	*
* 4670.0	* 8.3	* 13.8	* 4658.4	* 215.0	* 119.6	* 246.0	*
* 4680.0	* 8.4	* 14.7	* 4668.2	* 216.5	* 120.1	* 247.5	*
* 4690.0	* 8.5	* 15.5	* 4678.1	* 217.9	* 120.5	* 249.0	*
* 4700.0	* 8.6	* 16.3	* 4688.0	* 219.4	* 121.0	* 250.5	*
* 4710.0	* 8.7	* 17.2	* 4697.9	* 220.8	* 121.5	* 252.0	*
* 4720.0	* 8.8	* 18.0	* 4707.8	* 222.3	* 122.0	* 253.5	*
* 4730.0	* 8.7	* 18.0	* 4717.7	* 223.7	* 122.4	* 255.0	*
* 4740.0	* 8.6	* 15.0	* 4727.5	* 225.2	* 122.8	* 256.5	*
* 4750.0	* 8.6	* 18.0	* 4737.4	* 226.6	* 123.3	* 257.9	*
* 4760.0	* 8.5	* 16.0	* 4747.3	* 228.0	* 123.7	* 259.4	*
* 4770.0	* 8.4	* 18.0	* 4757.2	* 229.4	* 124.1	* 260.8	*
* 4780.0	* 8.3	* 13.0	* 4767.1	* 230.8	* 124.5	* 262.2	*
* 4790.0	* 8.2	* 13.0	* 4777.0	* 232.2	* 124.8	* 263.6	*
* 4800.0	* 8.1	* 10.0	* 4786.9	* 233.6	* 125.0	* 264.9	*
* 4810.0	* 8.0	* 10.0	* 4796.8	* 234.9	* 125.3	* 266.2	*
* 4820.0	* 8.0	* 8.0	* 4806.7	* 236.3	* 125.5	* 267.6	*
* 4830.0	* 7.9	* 10.0	* 4816.6	* 237.7	* 125.7	* 268.9	*
* 4840.0	* 7.8	* 16.0	* 4826.5	* 239.0	* 126.1	* 270.2	*
* 4850.0	* 7.7	* 10.0	* 4836.4	* 240.3	* 126.3	* 271.5	*
* 4860.0	* 7.6	* 12.0	* 4846.3	* 241.6	* 126.6	* 272.7	*
* 4870.0	* 7.5	* 11.0	* 4856.3	* 242.9	* 126.8	* 274.0	*
* 4880.0	* 7.6	* 10.0	* 4866.2	* 244.2	* 127.1	* 275.3	*
* 4890.0	* 7.7	* 11.0	* 4876.1	* 245.5	* 127.3	* 276.5	*
* 4900.0	* 7.7	* 11.0	* 4886.0	* 246.8	* 127.6	* 277.8	*

* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES		* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH	* FEET
			* DEPTH	* - SOUTH	* - WEST		

* 4910.0	* 7.8	* 9.0	* 4895.9	* 248.1	* 127.8	* 279.1	*
* 4920.0	* 7.9	* 11.0	* 4905.8	* 249.5	* 128.0	* 280.4	*
* 4930.0	* 8.0	* 14.0	* 4915.7	* 250.8	* 128.4	* 281.8	*
* 4940.0	* 8.1	* 14.0	* 4925.6	* 252.2	* 128.7	* 283.2	*
* 4950.0	* 8.2	* 13.0	* 4935.5	* 253.6	* 129.0	* 284.5	*
* 4960.0	* 8.3	* 7.0	* 4945.4	* 255.0	* 129.2	* 285.9	*
* 4970.0	* 8.3	* 8.0	* 4955.3	* 256.5	* 129.4	* 287.3	*
* 4980.0	* 8.4	* 11.0	* 4965.2	* 257.9	* 129.7	* 288.7	*
* 4990.0	* 8.5	* 11.0	* 4975.1	* 259.3	* 130.0	* 290.1	*
* 5000.0	* 8.6	* 10.0	* 4985.0	* 260.8	* 130.2	* 291.5	*
* 5010.0	* 8.7	* 12.0	* 4994.8	* 262.3	* 130.5	* 293.0	*
* 5020.0	* 8.7	* 13.0	* 5004.7	* 263.8	* 130.9	* 294.5	*
* 5030.0	* 8.8	* 14.0	* 5014.6	* 265.3	* 131.3	* 296.0	*
* 5040.0	* 8.8	* 29.0	* 5024.5	* 266.6	* 132.0	* 297.5	*
* 5050.0	* 8.9	* 29.0	* 5034.4	* 268.0	* 132.8	* 299.0	*
* 5060.0	* 8.9	* 30.0	* 5044.3	* 269.3	* 133.5	* 300.6	*
* 5070.0	* 9.0	* 28.0	* 5054.1	* 270.7	* 134.3	* 302.1	*
* 5080.0	* 9.0	* 21.0	* 5064.0	* 272.1	* 134.8	* 303.7	*
* 5090.0	* 9.0	* 21.0	* 5073.9	* 273.6	* 135.4	* 305.3	*
* 5100.0	* 9.1	* 24.0	* 5083.8	* 275.0	* 136.0	* 306.8	*
* 5110.0	* 9.1	* 26.0	* 5093.6	* 276.5	* 136.7	* 308.4	*
* 5120.0	* 9.2	* 23.0	* 5103.5	* 277.9	* 137.3	* 310.0	*
* 5130.0	* 9.2	* 22.0	* 5113.4	* 279.4	* 137.9	* 311.6	*
* 5140.0	* 9.3	* 24.0	* 5123.2	* 280.9	* 138.6	* 313.2	*
* 5150.0	* 9.3	* 21.0	* 5133.1	* 282.4	* 139.2	* 314.8	*
* 5160.0	* 9.3	* 25.0	* 5143.0	* 283.9	* 139.9	* 316.4	*
* 5170.0	* 9.4	* 27.0	* 5152.9	* 285.3	* 140.6	* 318.1	*
* 5180.0	* 9.4	* 26.0	* 5162.7	* 286.8	* 141.3	* 319.7	*
* 5190.0	* 9.5	* 26.0	* 5172.6	* 288.3	* 142.0	* 321.4	*
* 5200.0	* 9.5	* 25.0	* 5182.4	* 289.8	* 142.7	* 323.0	*
* 5210.0	* 9.5	* 26.0	* 5192.3	* 291.2	* 143.5	* 324.7	*
* 5220.0	* 9.6	* 24.0	* 5202.2	* 292.8	* 144.1	* 326.3	*
* 5230.0	* 9.6	* 22.0	* 5212.0	* 294.3	* 144.8	* 328.0	*
* 5240.0	* 9.7	* 28.0	* 5221.9	* 295.8	* 145.6	* 329.7	*
* 5250.0	* 9.7	* 25.0	* 5231.7	* 297.3	* 146.3	* 331.4	*
* 5260.0	* 9.7	* 24.0	* 5241.6	* 298.9	* 147.0	* 333.0	*
* 5270.0	* 9.7	* 28.0	* 5251.5	* 300.4	* 147.7	* 334.7	*
* 5280.0	* 9.6	* 26.0	* 5261.3	* 301.9	* 148.5	* 336.4	*
* 5290.0	* 9.6	* 27.0	* 5271.2	* 303.3	* 149.2	* 338.1	*
* 5300.0	* 9.5	* 29.0	* 5281.0	* 304.8	* 150.0	* 339.7	*
* 5310.0	* 9.4	* 27.0	* 5290.9	* 306.2	* 150.8	* 341.3	*
* 5320.0	* 9.3	* 22.0	* 5300.8	* 307.7	* 151.4	* 343.0	*
* 5330.0	* 9.3	* 21.0	* 5310.6	* 309.3	* 152.0	* 344.6	*
* 5340.0	* 9.2	* 21.0	* 5320.5	* 310.7	* 152.5	* 346.2	*
* 5350.0	* 9.1	* 24.0	* 5330.4	* 312.2	* 153.2	* 347.7	*
* 5360.0	* 9.0	* 24.0	* 5340.3	* 313.6	* 153.8	* 349.3	*
