



THE DIA-LOG COMPANY



P. O. BOX 14103, HOUSTON, TEXAS 77021 · TELEPHONE (713) 747-2100

UNION OIL OF CALIFORNIA
 Cove Fort-Sulphurdale Unit #47-2
 Wildcat
 Beaver, Utah
 Log No. 40826
 February 22, 1978

SUMMARY GENERAL CONDITION OF CASING

The enclosed Dia-Log Profile Caliper Logs cover 1345' of 13-3/8" O. D. casing and the 1955' interval of 9-5/8" O. D. from 1345' to 3300'. Also enclosed are repeat logs of the upper 500' of 13-3/8" O. D. casing and the upper 960' of 9-5/8" O. D. casing.

It was reported that the 13-3/8" O. D. casing weighs 56.0 lb./ft.. We are unable to locate any information on casing of this weight. The percentages of the remaining wall thickness, listed on the heading, are based on 54.5 lb./ft. casing.

13-3/8" O. D. Casing

The 13-3/8" O. D. casing shows to be in good condition. There is no indication of corrosion pitting in any of the 34 joints covered with the caliper. The only indication of casing damage is a minor reduction in wall thickness from what apparently is drill pipe wear. The minimum remaining wall thickness recorded is 9/32" in 17 different joints. For 13-3/8" O. D. 54.5 lb./ft. casing 9/32" is 74.0 percent of the specified nominal wall thickness. Eleven joints logged have 10/32" (82.2 percent) remaining wall thickness. The other 6 joints have 11/32" (90.5 percent) remaining wall thickness.

9-5/8" O. D. Casing

Casing damage from both corrosion pitting and drill pipe wear is recorded in this casing string. The most severe damage is recorded in Joint No. 12. The log deflection recorded at 1814' could be a split in the casing, however, there is no indication of an enlarged I. D. which normally would be expected when casing ruptures. Therefore, the damage in this joint is probably from corrosion.

The very wide rounded deflections recorded in Joints Nos. 5, 30 through 32, and 35 through 43 are typical of wall loss from drill pipe wear. Excluding Joint No. 12, the minimum remaining wall thickness recorded is 10/32" recorded in Joints Nos. 13, 31, 40 and 42. For 9-5/8" O. D. 40.0 lb./ft. casing 10/32" is 79.1 percent of the specified nominal wall. All other joints calipered have 11/32" (87.0 percent) or more remaining wall thickness.

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

UNION OIL OF CAL

CFS 42-7

WILDCAT

BEAVER COUNTY, UTAH

RUN NO. 1 3357 - 6004

MARCH 1, 1978

START OF SURVEY IS CASING AT 3357 FT.

TANGENTIAL METHOD

REFERENCE JOB 4107.

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

* 3810.0 *	* 6.7 *	* 292.0 *	* 3807.2 *	* 22.5 *	* -45.1 *	* 50.4 *	
* 3820.0 *	* 6.7 *	* 293.0 *	* 3817.1 *	* 23.0 *	* -46.1 *	* 51.5 *	
* 3830.0 *	* 6.7 *	* 293.0 *	* 3827.0 *	* 23.5 *	* -47.2 *	* 52.7 *	
* 3840.0 *	* 6.7 *	* 293.0 *	* 3837.0 *	* 23.9 *	* -48.3 *	* 53.9 *	
* 3850.0 *	* 6.7 *	* 294.0 *	* 3846.9 *	* 24.4 *	* -49.3 *	* 55.0 *	
* 3860.0 *	* 6.7 *	* 292.0 *	* 3856.8 *	* 24.8 *	* -50.4 *	* 56.2 *	
* 3870.0 *	* 6.7 *	* 293.0 *	* 3866.8 *	* 25.3 *	* -51.5 *	* 57.4 *	
* 3880.0 *	* 6.7 *	* 294.0 *	* 3876.7 *	* 25.8 *	* -52.6 *	* 58.5 *	
* 3890.0 *	* 6.7 *	* 296.0 *	* 3886.6 *	* 26.3 *	* -53.6 *	* 59.7 *	
* 3900.0 *	* 6.7 *	* 296.0 *	* 3896.6 *	* 26.8 *	* -54.7 *	* 60.9 *	
* 3910.0 *	* 6.7 *	* 297.0 *	* 3906.5 *	* 27.3 *	* -55.7 *	* 62.0 *	
* 3920.0 *	* 6.7 *	* 299.0 *	* 3916.4 *	* 27.9 *	* -56.7 *	* 63.2 *	
* 3930.0 *	* 6.7 *	* 298.0 *	* 3926.3 *	* 28.4 *	* -57.8 *	* 64.4 *	
* 3940.0 *	* 6.7 *	* 298.0 *	* 3936.3 *	* 29.0 *	* -58.8 *	* 65.5 *	
* 3950.0 *	* 6.7 *	* 298.0 *	* 3946.2 *	* 29.5 *	* -59.8 *	* 66.7 *	
* 3960.0 *	* 6.7 *	* 295.0 *	* 3956.1 *	* 30.0 *	* -60.9 *	* 67.9 *	
* 3970.0 *	* 6.7 *	* 295.0 *	* 3966.1 *	* 30.5 *	* -61.9 *	* 69.0 *	
* 3980.0 *	* 6.7 *	* 294.0 *	* 3976.0 *	* 31.0 *	* -63.0 *	* 70.2 *	
* 3990.0 *	* 6.7 *	* 294.0 *	* 3985.9 *	* 31.5 *	* -64.1 *	* 71.4 *	
* 4000.0 *	* 6.7 *	* 293.0 *	* 3995.9 *	* 31.9 *	* -65.1 *	* 72.5 *	
* 4010.0 *	* 6.7 *	* 293.0 *	* 4005.8 *	* 32.4 *	* -66.2 *	* 73.7 *	
* 4020.0 *	* 6.7 *	* 292.0 *	* 4015.7 *	* 32.8 *	* -67.3 *	* 74.9 *	
* 4030.0 *	* 6.7 *	* 294.0 *	* 4025.7 *	* 33.3 *	* -68.4 *	* 76.0 *	
* 4040.0 *	* 6.7 *	* 294.0 *	* 4035.6 *	* 33.8 *	* -69.4 *	* 77.2 *	
* 4050.0 *	* 6.7 *	* 294.0 *	* 4045.5 *	* 34.2 *	* -70.5 *	* 78.4 *	
* 4060.0 *	* 6.7 *	* 293.0 *	* 4055.5 *	* 34.7 *	* -71.5 *	* 79.5 *	
* 4070.0 *	* 6.6 *	* 294.0 *	* 4065.4 *	* 35.1 *	* -72.6 *	* 80.7 *	
* 4080.0 *	* 6.6 *	* 294.0 *	* 4075.3 *	* 35.6 *	* -73.6 *	* 81.8 *	
* 4090.0 *	* 6.5 *	* 293.0 *	* 4085.3 *	* 36.0 *	* -74.7 *	* 82.9 *	
* 4100.0 *	* 6.5 *	* 293.0 *	* 4095.2 *	* 36.5 *	* -75.7 *	* 84.0 *	
* 4110.0 *	* 6.4 *	* 294.0 *	* 4095.2 *	* 36.9 *	* -76.7 *	* 85.1 *	
* 4120.0 *	* 6.4 *	* 293.0 *	* 4105.1 *	* 37.4 *	* -77.7 *	* 86.2 *	
* 4130.0 *	* 6.3 *	* 294.0 *	* 4115.1 *	* 37.8 *	* -78.7 *	* 87.3 *	
* 4140.0 *	* 6.3 *	* 294.0 *	* 4125.0 *	* 38.2 *	* -79.7 *	* 88.4 *	
* 4150.0 *	* 6.3 *	* 292.0 *	* 4135.0 *	* 38.6 *	* -80.8 *	* 89.5 *	
* 4160.0 *	* 6.3 *	* 291.0 *	* 4144.9 *	* 39.0 *	* -81.8 *	* 90.6 *	
* 4170.0 *	* 6.2 *	* 292.0 *	* 4154.8 *	* 39.4 *	* -82.8 *	* 91.7 *	
* 4180.0 *	* 6.2 *	* 291.0 *	* 4164.8 *	* 39.8 *	* -83.8 *	* 92.8 *	
* 4190.0 *	* 6.2 *	* 290.0 *	* 4174.7 *	* 40.2 *	* -84.8 *	* 93.8 *	
* 4200.0 *	* 6.2 *	* 291.0 *	* 4184.7 *	* 40.5 *	* -85.8 *	* 94.9 *	
* 4210.0 *	* 6.2 *	* 288.0 *	* 4194.6 *	* 40.8 *	* -86.8 *	* 96.0 *	
* 4220.0 *	* 6.2 *	* 289.0 *	* 4204.5 *	* 41.2 *	* -87.8 *	* 97.0 *	
* 4230.0 *	* 6.1 *	* 290.0 *	* 4214.5 *	* 41.6 *	* -88.9 *	* 98.1 *	
* 4240.0 *	* 6.1 *	* 289.0 *	* 4224.4 *	* 41.9 *	* -89.9 *	* 99.1 *	
* 4250.0 *	* 6.1 *	* 290.0 *	* 4234.4 *	* 42.3 *	* -90.8 *	* 100.2 *	
* 4260.0 *	* 6.1 *	* 290.0 *	* 4244.3 *	* 42.7 *	* -91.8 *	* 101.3 *	

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

4270.0	6.1	292.0	4264.2	43.1	-92.8	102.3	*
4280.0	6.0	289.0	4274.2	43.4	-93.8	103.4	*
4290.0	6.0	291.0	4284.1	43.8	-94.8	104.4	*
4300.0	6.0	289.0	4294.0	44.1	-95.8	105.5	*
4310.0	6.0	289.0	4304.0	44.5	-96.8	106.5	*
4320.0	6.1	288.0	4313.9	44.8	-97.8	107.5	*
4330.0	6.0	285.0	4323.9	45.1	-98.8	108.6	*
4340.0	6.0	285.0	4333.8	45.3	-99.8	109.6	*
4350.0	6.0	284.0	4343.8	45.6	-100.8	110.6	*
4360.0	6.0	283.0	4353.7	45.8	-101.8	111.7	*
4370.0	6.0	282.0	4363.7	46.0	-102.9	112.7	*
4380.0	5.9	284.0	4373.6	46.3	-103.9	113.7	*
4390.0	6.0	285.0	4383.6	46.6	-104.9	114.7	*
4400.0	6.0	284.0	4393.5	46.8	-105.9	115.8	*
4410.0	6.0	283.0	4403.4	47.0	-106.9	116.8	*
4420.0	6.0	283.0	4413.4	47.3	-107.9	117.8	*
4430.0	6.0	282.0	4423.3	47.5	-108.9	118.8	*
4440.0	6.0	282.0	4433.3	47.7	-110.0	119.9	*
4450.0	6.0	281.0	4443.2	47.9	-111.0	120.9	*
4460.0	6.0	282.0	4453.2	48.1	-112.0	121.9	*
4470.0	6.0	277.0	4463.1	48.3	-113.0	122.9	*
4480.0	6.0	278.0	4473.1	48.4	-114.1	123.9	*
4490.0	6.0	278.0	4483.0	48.5	-115.1	124.9	*
4500.0	6.0	278.0	4492.9	48.7	-116.1	125.9	*
4510.0	6.0	278.0	4502.9	48.8	-117.2	127.0	*
4520.0	6.0	278.0	4512.8	49.0	-118.2	128.0	*
4530.0	6.0	278.0	4522.8	49.1	-119.3	129.0	*
4540.0	6.0	280.0	4532.7	49.3	-120.3	130.0	*
4550.0	6.0	279.0	4542.7	49.5	-121.3	131.0	*
4560.0	6.0	280.0	4552.6	49.7	-122.3	132.0	*
4570.0	6.0	281.0	4562.6	49.9	-123.4	133.1	*
4580.0	6.0	279.0	4572.5	50.0	-124.4	134.1	*
4590.0	6.0	279.0	4582.5	50.2	-125.4	135.1	*
4600.0	6.0	278.0	4592.4	50.3	-126.5	136.1	*
4610.0	6.0	279.0	4602.3	50.5	-127.5	137.1	*
4620.0	6.0	277.0	4612.3	50.6	-128.5	138.1	*
4630.0	6.0	278.0	4622.2	50.8	-129.6	139.2	*
4640.0	6.0	279.0	4632.2	50.9	-130.6	140.2	*
4650.0	6.0	278.0	4642.1	51.1	-131.6	141.2	*
4660.0	6.0	279.0	4652.1	51.2	-132.7	142.2	*
4670.0	6.0	278.0	4662.0	51.4	-133.7	143.2	*
4680.0	6.0	281.0	4672.0	51.6	-134.7	144.3	*
4690.0	6.0	279.0	4681.9	51.7	-135.8	145.3	*
4700.0	6.0	280.0	4691.9	51.9	-136.8	146.3	*
4710.0	6.0	281.0	4701.8	52.1	-137.8	147.4	*
4720.0	6.0	279.0	4711.7	52.3	-138.9	148.4	*

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

* 4730.0	* 6.0	* 280.0	* 4721.7	* 52.5	* -139.9	* 149.4	* 149.4
* 4740.0	* 6.0	* 280.0	* 4731.6	* 52.7	* -140.9	* 150.4	* 150.4
* 4750.0	* 6.0	* 278.0	* 4741.6	* 52.8	* -142.0	* 151.5	* 151.5
* 4760.0	* 5.8	* 283.0	* 4751.5	* 53.0	* -142.9	* 152.5	* 152.5
* 4770.0	* 5.8	* 283.0	* 4761.5	* 53.3	* -143.9	* 153.5	* 153.5
* 4780.0	* 5.8	* 281.0	* 4771.4	* 53.4	* -144.9	* 154.5	* 154.5
* 4790.0	* 5.7	* 282.0	* 4781.4	* 53.6	* -145.9	* 155.4	* 155.4
* 4800.0	* 5.7	* 277.0	* 4791.3	* 53.8	* -146.9	* 156.4	* 156.4
* 4810.0	* 5.8	* 274.0	* 4801.3	* 53.8	* -147.9	* 157.4	* 157.4
* 4820.0	* 5.9	* 273.0	* 4811.2	* 53.9	* -148.9	* 158.4	* 158.4
* 4830.0	* 5.8	* 272.0	* 4821.2	* 53.9	* -149.9	* 159.3	* 159.3
* 4840.0	* 5.8	* 272.0	* 4831.1	* 54.0	* -150.9	* 160.3	* 160.3
* 4850.0	* 5.8	* 274.0	* 4841.1	* 54.0	* -151.9	* 161.3	* 161.3
* 4860.0	* 5.9	* 273.0	* 4851.0	* 54.1	* -153.0	* 162.2	* 162.2
* 4870.0	* 5.9	* 274.0	* 4861.0	* 54.2	* -154.0	* 163.2	* 163.2
* 4880.0	* 5.9	* 274.0	* 4870.9	* 54.2	* -155.0	* 164.2	* 164.2
* 4890.0	* 5.9	* 274.0	* 4880.9	* 54.3	* -156.0	* 165.2	* 165.2
* 4900.0	* 5.8	* 274.0	* 4890.8	* 54.4	* -157.0	* 166.2	* 166.2
* 4910.0	* 5.8	* 272.0	* 4900.8	* 54.4	* -158.1	* 167.2	* 167.2
* 4920.0	* 5.8	* 272.0	* 4910.7	* 54.4	* -159.1	* 168.1	* 168.1
* 4930.0	* 5.8	* 273.0	* 4920.7	* 54.5	* -160.1	* 169.1	* 169.1
* 4940.0	* 5.9	* 273.0	* 4930.6	* 54.6	* -161.1	* 170.1	* 170.1
* 4950.0	* 5.9	* 273.0	* 4940.5	* 54.6	* -162.1	* 171.1	* 171.1
* 4960.0	* 5.9	* 272.0	* 4950.5	* 54.6	* -163.2	* 172.1	* 172.1
* 4970.0	* 5.9	* 272.0	* 4960.4	* 54.7	* -164.2	* 173.0	* 173.0
* 4980.0	* 5.9	* 271.0	* 4970.4	* 54.7	* -165.2	* 174.0	* 174.0
* 4990.0	* 5.9	* 269.0	* 4980.3	* 54.7	* -166.2	* 175.0	* 175.0
* 5000.0	* 5.9	* 270.0	* 4990.3	* 54.7	* -167.3	* 176.0	* 176.0
* 5010.0	* 5.9	* 269.0	* 5000.2	* 54.7	* -168.3	* 176.9	* 176.9
* 5020.0	* 5.9	* 269.0	* 5010.2	* 54.6	* -169.3	* 177.9	* 177.9
* 5030.0	* 6.0	* 268.0	* 5020.1	* 54.6	* -170.4	* 178.9	* 178.9
* 5040.0	* 6.0	* 269.0	* 5030.1	* 54.6	* -171.4	* 179.9	* 179.9
* 5050.0	* 6.0	* 270.0	* 5040.0	* 54.6	* -172.5	* 180.9	* 180.9
* 5060.0	* 6.0	* 271.0	* 5050.0	* 54.6	* -173.5	* 181.9	* 181.9
* 5070.0	* 6.0	* 271.0	* 5059.9	* 54.6	* -174.5	* 182.9	* 182.9
* 5080.0	* 6.1	* 271.0	* 5069.8	* 54.6	* -175.6	* 183.9	* 183.9
* 5090.0	* 6.1	* 272.0	* 5079.8	* 54.7	* -176.7	* 184.9	* 184.9
* 5100.0	* 6.0	* 273.0	* 5089.7	* 54.7	* -177.7	* 186.0	* 186.0
* 5110.0	* 6.0	* 274.0	* 5099.7	* 54.8	* -178.8	* 187.0	* 187.0
* 5120.0	* 6.0	* 272.0	* 5109.6	* 54.8	* -179.8	* 188.0	* 188.0
* 5130.0	* 6.0	* 274.0	* 5119.6	* 54.9	* -180.8	* 189.0	* 189.0
* 5140.0	* 6.0	* 274.0	* 5129.5	* 55.0	* -181.9	* 190.0	* 190.0
* 5150.0	* 6.0	* 272.0	* 5139.5	* 55.0	* -182.9	* 191.0	* 191.0
* 5160.0	* 6.1	* 274.0	* 5149.4	* 55.1	* -184.0	* 192.1	* 192.1
* 5170.0	* 6.0	* 271.0	* 5159.3	* 55.1	* -185.0	* 193.1	* 193.1
* 5180.0	* 6.0	* 272.0	* 5169.3	* 55.2	* -186.1	* 194.1	* 194.1

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

5190.0	6.0	271.0	5179.2	55.2	-187.1	195.1
5200.0	6.0	270.0	5189.2	55.2	-188.2	196.1
5210.0	6.0	272.0	5199.1	55.2	-189.2	197.1
5220.0	6.0	270.0	5209.1	55.2	-190.3	198.1
5230.0	6.0	271.0	5219.0	55.2	-191.3	199.1
5240.0	6.0	270.0	5229.0	55.2	-192.3	200.1
5250.0	6.0	270.0	5238.9	55.2	-193.4	201.1
5260.0	6.0	268.0	5248.9	55.2	-194.4	202.1
5270.0	6.0	273.0	5258.8	55.2	-195.5	203.1
5280.0	6.0	269.0	5268.7	55.2	-196.5	204.1
5290.0	6.0	271.0	5278.7	55.2	-197.6	205.2
5300.0	6.0	270.0	5288.6	55.2	-198.6	206.2
5310.0	6.0	270.0	5298.6	55.2	-199.7	207.2
5320.0	6.0	267.0	5308.5	55.2	-200.7	208.2
5330.0	6.0	271.0	5318.5	55.2	-201.8	209.2
5340.0	6.0	268.0	5328.4	55.2	-202.8	210.2
5350.0	6.0	269.0	5338.4	55.2	-203.8	211.2
5360.0	6.0	267.0	5348.3	55.1	-204.9	212.2
5370.0	6.0	267.0	5358.2	55.0	-205.9	213.2
5380.0	6.0	269.0	5368.2	55.0	-207.0	214.2
5390.0	6.0	265.0	5378.1	54.9	-208.0	215.1
5400.0	5.9	267.0	5388.1	54.9	-209.0	216.1
5410.0	6.0	266.0	5398.0	54.8	-210.1	217.1
5420.0	6.0	265.0	5408.0	54.7	-211.1	218.1
5430.0	6.0	267.0	5417.9	54.7	-212.2	219.1
5440.0	6.0	265.0	5427.9	54.6	-213.2	220.1
5450.0	6.0	265.0	5437.8	54.5	-214.3	221.1
5460.0	6.0	356.6	5447.8	54.4	-215.3	222.1
5470.0	6.0	354.9	5457.7	54.3	-216.3	223.1
5480.0	6.0	353.3	5467.6	54.2	-217.4	224.0
5490.0	6.0	351.6	5477.6	54.1	-218.4	225.0
5500.0	6.0	349.9	5487.5	54.0	-219.5	226.0
5510.0	6.0	348.2	5497.5	53.9	-220.5	227.0
5520.0	6.0	346.5	5507.4	53.9	-221.5	228.0
5530.0	6.0	344.8	5517.4	53.8	-222.6	229.0
5540.0	6.0	343.2	5527.3	53.7	-223.6	230.0
5550.0	6.0	341.5	5537.3	53.6	-224.7	231.0
5560.0	6.0	339.8	5547.2	53.5	-225.7	232.0
5570.0	6.0	338.1	5557.2	53.4	-226.8	233.0
5580.0	6.0	336.4	5567.1	53.3	-227.8	233.9
5590.0	6.0	334.7	5577.0	53.2	-228.8	234.9
5600.0	6.0	333.0	5587.0	53.1	-229.9	235.9
5610.0	6.0	331.4	5596.9	53.0	-230.9	236.9
5620.0	6.0	329.7	5606.9	52.9	-232.0	237.9
5630.0	6.0	328.0	5616.8	52.9	-233.0	238.9
5640.0	6.0	326.3	5626.8	52.8	-234.0	239.9

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

* 5650.0	* 6.0	* 324.6	* 5636.7	* 52.7	* -235.1	* 240.9
* 5660.0	* 6.0	* 322.9	* 5646.7	* 52.6	* -236.1	* 241.9
* 5670.0	* 6.0	* 321.3	* 5656.6	* 52.5	* -237.2	* 242.9
* 5680.0	* 6.0	* 319.6	* 5666.6	* 52.4	* -238.2	* 243.9
* 5690.0	* 6.0	* 317.9	* 5676.5	* 52.3	* -239.2	* 244.9
* 5700.0	* 6.0	* 316.2	* 5686.4	* 52.2	* -240.3	* 245.9
* 5710.0	* 6.0	* 314.5	* 5696.4	* 52.1	* -241.3	* 246.9
* 5720.0	* 6.0	* 312.8	* 5706.3	* 52.0	* -242.4	* 247.9
* 5730.0	* 6.0	* 311.2	* 5716.3	* 51.9	* -243.4	* 248.9
* 5740.0	* 6.0	* 309.5	* 5726.2	* 51.9	* -244.5	* 249.9
* 5750.0	* 6.0	* 307.8	* 5736.2	* 51.8	* -245.5	* 250.9
* 5760.0	* 6.0	* 306.1	* 5746.1	* 51.7	* -246.5	* 251.9
* 5770.0	* 6.0	* 304.4	* 5756.1	* 51.6	* -247.6	* 252.9
* 5780.0	* 6.0	* 302.7	* 5766.0	* 51.5	* -248.6	* 253.9
* 5790.0	* 6.0	* 301.0	* 5776.0	* 51.4	* -249.7	* 254.9
* 5800.0	* 6.0	* 299.4	* 5785.9	* 51.3	* -250.7	* 255.9
* 5810.0	* 6.0	* 297.7	* 5795.8	* 51.2	* -251.7	* 256.9
* 5820.0	* 6.0	* 296.0	* 5805.8	* 51.1	* -252.8	* 257.9
* 5830.0	* 6.0	* 294.3	* 5815.7	* 51.0	* -253.8	* 258.9
* 5840.0	* 6.0	* 292.6	* 5825.7	* 50.9	* -254.9	* 259.9
* 5850.0	* 6.0	* 290.9	* 5835.6	* 50.9	* -255.9	* 260.9
* 5860.0	* 6.0	* 289.3	* 5845.6	* 50.8	* -256.9	* 261.9
* 5870.0	* 6.0	* 287.6	* 5855.5	* 50.7	* -258.0	* 262.9
* 5880.0	* 6.0	* 285.9	* 5865.5	* 50.6	* -259.0	* 263.9
* 5890.0	* 6.0	* 284.2	* 5875.4	* 50.5	* -260.1	* 264.9
* 5900.0	* 6.0	* 282.5	* 5885.3	* 50.4	* -261.1	* 265.9
* 5910.0	* 6.0	* 280.8	* 5895.3	* 50.3	* -262.2	* 266.9
* 5920.0	* 6.0	* 279.1	* 5905.2	* 50.2	* -263.2	* 267.9
* 5930.0	* 6.0	* 277.5	* 5915.2	* 50.1	* -264.2	* 269.0
* 5940.0	* 6.0	* 275.8	* 5925.1	* 50.0	* -265.3	* 270.0
* 5950.0	* 6.0	* 274.1	* 5935.1	* 49.9	* -266.3	* 271.0
* 5960.0	* 6.0	* 272.4	* 5945.0	* 49.9	* -267.4	* 272.0
* 5970.0	* 6.0	* 270.7	* 5955.0	* 49.8	* -268.4	* 273.0
* 5980.0	* 6.0	* 269.0	* 5964.9	* 49.7	* -269.4	* 274.0
* 5990.0	* 6.0	* 267.4	* 5974.9	* 49.6	* -270.5	* 275.0
* 6000.0	* 6.0	* 265.7	* 5984.8	* 49.5	* -271.5	* 276.0
* 6004.0	* 6.0	* 265.0	* 5988.8	* 49.4	* -271.9	* 276.4

* BOTTOM HOLE LOCATION *
* COURSE LENGTH: 276.4 FEET *
* COURSE AZIMUTH: 280.3 DEGREES *
* MEASURED DEPTH: 6004.0 FEET *
* TRUE VERTICAL DEPTH: 5988.8 FEET *
* DISTANCE NORTH: 49.4 FEET *
* DISTANCE WEST: 271.9 FEET *
* TANGENTIAL METHOD *

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* : SCHLUMBERGER *
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DIPMETER
CLUSTER
CALCULATION
LISTING

UNION OIL OF CAL
CFS 42-7
WILDCAT
BEAVER, UTAH
RUN NO. ONE JOB NO. 4107

CORRELATION LENGTH 4 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 50 DEG. X1

13-MAR-78

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***** SCHLUMBERGER *****

DIPMETER
CLUSTER
CALCULATION
LISTING

UNION OIL OF CAL.

CFS 42-7

WILDCAT

BEAVER, UTAH

RUN NO. ONE JOB NO. 4107

CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 50 DEG. X1

13-MAR-78

* FORMATION * BOREHOLE * QUAL. *

* ----- * INDEX *
* DEPTH * DIP DIP * DEV. DEV. DIAM DIAM * BEST *
* * * AZI. * AZI. 1-3 2-4 * =4 *

* 3380.0			6.0	303	11.8	11.3		*
* 3382.0			6.0	303	11.7	11.4		*
* 3384.0			6.0	301	11.7	11.4		*
* 3386.0			6.0	303	11.8	11.8		*
* 3388.0	40.7	285	6.0	304	12.2	12.3	1	*
* 3390.0	41.0	282	6.0	304	12.4	12.4	3	*
* 3392.0			6.0	305	12.1	12.3		*
* 3394.0			6.0	301	11.9	12.2		*
* 3396.0			6.0	303	11.9	12.1		*
* 3398.0	16.6	274	6.0	305	12.0	12.0	1	*
* 3400.0	34.2	292	6.0	303	11.7	11.8	1	*
* 3402.0	26.4	294	6.0	303	11.3	11.7	1	*
* 3404.0			6.0	305	11.2	11.7		*
* 3406.0	4.6	206	6.0	306	11.1	11.7	1	*
* 3408.0	7.5	154	6.0	306	11.2	11.4	1	*
* 3410.0	9.4	116	6.0	305	11.2	11.1	1	*
* 3412.0	5.4	214	6.0	304	11.4	11.1	1	*
* 3414.0	5.0	225	6.0	305	11.5	11.1	3	*
* 3416.0	21.0	296	6.0	304	11.8	11.2	1	*
* 3418.0			6.0	301	12.2	11.2		*
* 3420.0			6.0	300	12.1	11.3		*
* 3422.0	13.8	297	6.0	300	11.9	11.5	3	*
* 3424.0			6.0	302	11.5	11.3		*
* 3426.0	12.1	87	6.0	304	11.2	11.2	3	*
* 3428.0	13.5	101	6.0	303	11.2	11.4	3	*
* 3430.0	5.3	315	6.0	302	11.2	11.4	3	*
* 3432.0	6.6	328	6.0	302	11.2	11.2	3	*
* 3434.0	44.7	269	6.0	302	11.3	11.1	3	*
* 3436.0	44.4	269	6.1	300	11.2	11.2	1	*
* 3438.0	10.8	341	6.1	300	11.0	11.3	3	*
* 3440.0	11.4	342	6.1	303	10.6	11.0	3	*
* 3442.0	13.2	301	6.1	303	10.2	10.9	1	*
* 3444.0	4.7	5	6.1	303	10.4	11.0	1	*
* 3446.0			6.1	303	10.4	10.9		*
* 3448.0	43.8	109	6.1	304	10.9	11.2	1	*
* 3450.0			6.1	303	11.5	11.6		*
* 3452.0	45.0	103	6.1	301	10.6	10.8	3	*
* 3454.0	56.7	99	6.1	300	9.5	9.9	1	*
* 3456.0			6.1	302	9.6	9.8		*
* 3458.0			6.1	305	9.8	9.8		*
* 3460.0			6.1	304	9.8	9.8		*
* 3462.0			6.1	304	9.9	10.0		*
* 3464.0			6.2	304	9.7	10.0		*
* 3466.0	6.8	309	6.2	304	9.6	9.8	4	*
* 3468.0	9.6	340	6.2	304	9.7	9.9	4	*

* * * * * FORMATION * * * * * BOREHOLE * * * * * QUAL. * * * * *

* * * * * INDEX * * * * *

* DEPTH * * * * * DIP * * * * * DEV. * * * * * DIAM * * * * * BEST * * * * *

* * * * * AZI. * * * * * AZI. * * * * * 1-3 * * * * * 2-4 * * * * * #4 * * * * *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
	AZI.	AZI.	AZI.	AZI.	1-3	2-4	#4
* 4466.0			6.0	281	9.9	9.5	*
* 4468.0			6.0	281	10.0	9.5	*
* 4470.0			6.0	281	10.1	9.5	*
* 4472.0			6.0	280	10.1	9.6	*
* 4474.0			6.0	280	10.1	9.6	*
* 4476.0			6.0	282	10.1	9.6	*
* 4478.0			6.0	282	10.1	9.6	*
* 4480.0			6.0	280	10.1	9.5	*
* 4482.0			6.0	281	10.1	9.5	*
* 4484.0	68.4	188	6.0	281	10.1	9.5	1 *
* 4486.0	68.4	188	6.0	281	10.1	9.5	1 *
* 4488.0	47.0	43	6.0	282	10.0	9.5	3 *
* 4490.0	20.5	333	6.0	282	10.0	9.4	1 *
* 4492.0			6.0	280	9.9	9.4	*
* 4494.0			6.0	281	9.8	9.4	*
* 4496.0			6.0	281	9.8	9.3	*
* 4498.0			6.0	279	9.8	9.3	*
* 4500.0			6.0	279	9.9	9.4	*
* 4502.0			6.0	281	10.0	9.4	*
* 4504.0	47.0	337	6.0	282	10.0	9.5	1 *
* 4506.0	45.5	336	6.0	280	10.0	9.5	1 *
* 4508.0			6.0	280	10.0	9.5	*
* 4510.0			6.0	282	10.0	9.5	*
* 4512.0	52.0	275	6.0	281	10.0	9.5	1 *
* 4514.0	46.1	261	6.0	280	10.0	9.5	3 *
* 4516.0	43.8	263	6.0	282	10.1	9.5	1 *
* 4518.0	23.6	9	6.0	281	10.1	9.6	3 *
* 4520.0	21.5	13	6.0	280	10.1	9.6	3 *
* 4522.0			6.0	281	10.0	9.6	*
* 4524.0	48.7	254	6.0	281	10.0	9.5	1 *
* 4526.0	23.1	1	6.0	280	10.0	9.6	3 *
* 4528.0			6.0	281	10.0	9.6	*
* 4530.0			6.0	281	10.0	9.5	*
* 4532.0			6.0	280	10.0	9.6	*
* 4534.0			6.0	281	10.0	9.5	*
* 4536.0			6.0	282	10.0	9.5	*
* 4538.0			6.0	282	9.9	9.5	*
* 4540.0			6.0	282	9.9	9.5	*
* 4542.0			6.0	281	9.9	9.5	*
* 4544.0			6.0	280	9.8	9.5	*
* 4546.0			6.0	280	9.8	9.6	*
* 4548.0	11.9	18	6.0	283	9.8	9.5	1 *
* 4550.0			6.0	283	9.9	9.5	*
* 4552.0	35.1	355	6.0	280	9.8	9.5	4 *
* 4554.0	34.9	350	6.0	280	9.8	9.5	4 *

* FORMATION * BOREHOLE * QUAL. *
* INDEX *

* DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *
* * * AZI. * * AZI. * 1-3 * 2-4 * =4 *

* 3470.0	9.4	337	6.2	305	9.8	10.1	4	*
* 3472.0	11.7	314	6.2	306	9.8	10.0	4	*
* 3474.0			6.2	304	9.8	10.0		*
* 3476.0			6.2	302	9.8	10.1		*
* 3478.0			6.2	302	9.9	10.1		*
* 3480.0			6.2	303	10.4	10.2		*
* 3482.0			6.2	304	10.9	10.9		*
* 3484.0			6.2	302	10.7	11.3		*
* 3486.0			6.2	300	11.0	11.2		*
* 3488.0			6.2	301	12.3	11.4		*
* 3490.0	39.1	300	6.2	301	12.6	11.9	1	*
* 3492.0			6.3	300	10.9	11.4		*
* 3494.0	18.4	307	6.3	303	10.2	10.6	1	*
* 3496.0	18.5	308	6.3	301	10.1	10.5	3	*
* 3498.0			6.3	301	9.9	10.3		*
* 3500.0			6.3	301	9.7	10.2		*
* 3502.0	20.4	313	6.3	300	9.6	10.2	1	*
* 3504.0	26.2	312	6.3	301	9.6	10.2	3	*
* 3506.0	20.0	330	6.3	302	9.6	10.1	4	*
* 3508.0	18.8	310	6.3	301	9.6	10.1	4	*
* 3510.0	17.9	313	6.3	299	9.6	10.0	4	*
* 3512.0	19.5	306	6.3	299	9.9	10.0	4	*
* 3514.0	20.5	310	6.3	299	9.9	10.2	4	*
* 3516.0	23.9	306	6.3	299	9.6	10.4	4	*
* 3518.0	21.7	311	6.3	299	9.6	10.6	2	*
* 3520.0	31.3	284	6.4	298	9.7	10.6	2	*
* 3522.0	19.4	306	6.4	298	9.8	10.5	4	*
* 3524.0	18.8	305	6.4	297	9.8	10.3	4	*
* 3526.0	17.4	304	6.4	299	9.9	10.3	4	*
* 3528.0	17.8	303	6.4	300	9.9	10.5	4	*
* 3530.0	16.8	298	6.4	299	9.7	10.5	4	*
* 3532.0	16.3	302	6.4	299	9.7	10.4	4	*
* 3534.0			6.4	299	9.7	10.3		*
* 3536.0			6.4	300	9.7	10.2		*
* 3538.0			6.4	301	9.8	10.3		*
* 3540.0			6.4	300	9.6	10.3		*
* 3542.0			6.4	299	9.6	10.1		*
* 3544.0			6.4	301	9.6	9.9		*
* 3546.0	42.6	72	6.4	300	9.6	9.9	3	*
* 3548.0	46.0	66	6.5	299	9.6	10.0	1	*
* 3550.0			6.5	300	9.6	10.2		*
* 3552.0			6.5	301	9.5	10.2		*
* 3554.0	31.9	291	6.5	300	9.7	10.2	1	*
* 3556.0			6.5	298	9.7	10.3		*
* 3558.0			6.5	297	9.7	10.4		*

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*****
#          *      FORMATION      *          BOREHOLE          *      QUAL.      *
#          *-----*-----*          *          *          *      INDEX      *
# DEPTH  *  DIP    DIP    *  DEV.  DEV.  DIAM  DIAM *  BEST  *
#          *      AZI.  *          *          *  1-3  2-4 *  =4  *
*****
# 455600  20.0    353    *  6.0  281   9.8   9.5   4  *
# 455800  41.4    354    *  6.0  281   9.8   9.5   2  *
# 456000  31.1    358    *  6.0  281   9.8   9.5   4  *
# 456200  29.2    353    *  6.0  282   9.8   9.5   4  *
# 456400  30.2    352    *  6.0  281   9.8   9.4   4  *
# 456600  37.8    354    *  6.0  280   9.7   9.4   4  *
# 456800  45.9    352    *  6.0  281   9.6   9.4   3  *
# 457000  55.9    350    *  6.0  280   9.6   9.4   1  *
# 457200          *  6.0  279   9.6   9.4   *
# 457400  55.0    354    *  6.0  280   9.7   9.3   3  *
# 457600  39.5    355    *  6.0  282   9.7   9.3   1  *
# 457800  43.9    337    *  6.0  282   9.6   9.4   1  *
# 458000          *  6.0  281   9.6   9.4   *
# 458200          *  6.0  281   9.7   9.5   *
# 458400  49.7    360    *  6.0  280   9.8   9.5   1  *
# 458600          *  6.0  280   9.7   9.5   *
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* FORMATION *		* BOREHOLE *				* QUAL. *	
* DEPTH *	* DIP *	* DIP AZI. *	* DEV. AZI. *	* DEV. AZI. *	* DIAM 1-3 *	* DIAM 2-4 *	* INDEX BEST =4 *

* 3560.0	17.5	314	6.5	296	9.7	10.4	3
* 3562.0	15.5	311	6.5	298	9.7	10.4	3
* 3564.0	14.5	300	6.5	297	10.0	10.4	3
* 3566.0	13.8	295	6.5	296	10.2	10.2	1
* 3568.0			6.5	296	9.9	10.1	
* 3570.0			6.5	296	9.6	10.1	
* 3572.0			6.5	296	9.6	10.0	
* 3574.0	17.8	330	6.5	296	9.7	9.8	2
* 3576.0	15.8	319	6.5	297	9.9	9.8	4
* 3578.0	15.5	315	6.5	295	9.8	9.9	4
* 3580.0	15.2	310	6.5	295	9.8	10.0	4
* 3582.0	14.9	322	6.5	296	10.0	10.1	4
* 3584.0			6.5	297	10.0	10.1	
* 3586.0	18.4	328	6.5	297	9.8	10.0	4
* 3588.0	23.0	328	6.5	296	9.7	9.8	4
* 3590.0	13.1	317	6.5	296	9.8	9.9	2
* 3592.0	9.0	328	6.5	296	9.9	9.9	4
* 3594.0	12.9	328	6.5	296	10.0	10.0	4
* 3596.0			6.5	296	9.8	9.9	
* 3598.0	20.3	349	6.5	295	9.9	9.8	2
* 3600.0	21.2	15	6.5	294	9.9	9.8	4
* 3602.0			6.5	294	9.9	9.7	
* 3604.0	18.1	333	6.5	293	9.8	9.7	4
* 3606.0	18.0	333	6.5	293	9.9	9.7	4
* 3608.0	12.5	327	6.5	295	10.0	9.8	4
* 3610.0	14.3	318	6.5	296	10.0	9.7	4
* 3612.0	37.4	322	6.5	296	9.9	9.8	1
* 3614.0	30.4	333	6.5	296	9.9	9.7	3
* 3616.0	28.7	327	6.5	296	10.0	9.8	1
* 3618.0			6.5	294	10.0	9.8	
* 3620.0			6.5	295	10.5	10.0	
* 3622.0	29.1	333	6.5	295	10.6	10.0	1
* 3624.0	33.2	314	6.5	296	9.9	9.8	1
* 3626.0			6.6	296	9.8	9.7	
* 3628.0			6.6	295	9.7	9.6	
* 3630.0			6.6	295	9.8	9.6	
* 3632.0	26.1	311	6.6	295	10.0	9.9	3
* 3634.0	17.4	323	6.6	296	9.9	9.9	3
* 3636.0	15.7	327	6.6	297	9.6	9.5	3
* 3638.0	21.5	311	6.6	296	9.5	9.5	3
* 3640.0	22.5	306	6.6	293	9.4	9.5	3
* 3642.0	16.3	328	6.6	293	9.5	9.5	1
* 3644.0	9.7	312	6.6	293	9.6	9.5	1
* 3646.0			6.6	293	9.5	9.5	
* 3648.0			6.6	293	9.4	9.5	

* FORMATION * BOREHOLE * QUAL. *

* INDEX *

* DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *

* * * * * AZI. * AZI. * 1-3 * 2-4 * =4 *

* DEPTH *	* DIP *	* DIP *	* DEV. *	* DEV. *	* DIAM *	* DIAM *	* BEST *	* INDEX *
		AZI.		AZI.	1-3	2-4	=4	
* 3650.0	17.6	327	6.6	294	9.4	9.8	1	*
* 3652.0	15.5	324	6.6	294	9.5	9.4	3	*
* 3654.0	15.4	331	6.6	294	9.6	9.4	1	*
* 3656.0	17.1	6	6.6	294	9.7	9.4	1	*
* 3658.0	26.6	300	6.6	293	9.5	9.4	1	*
* 3660.0			6.6	294	9.4	9.3		*
* 3662.0			6.6	295	9.5	9.3		*
* 3664.0	18.6	331	6.6	296	9.7	9.3	3	*
* 3666.0			6.6	295	9.7	9.6		*
* 3668.0			6.6	293	9.6	9.7		*
* 3670.0			6.6	292	9.6	9.5		*
* 3672.0	57.4	56	6.6	293	9.6	9.4	1	*
* 3674.0			6.6	295	9.6	9.5		*
* 3676.0			6.6	295	9.6	9.5		*
* 3678.0	68.3	59	6.6	296	9.6	9.6	1	*
* 3680.0	63.0	69	6.6	293	9.7	9.7	1	*
* 3682.0			6.6	292	9.8	9.8		*
* 3684.0			6.6	293	9.9	9.8		*
* 3686.0			6.6	293	9.9	9.8		*
* 3688.0			6.6	293	10.0	9.9		*
* 3690.0			6.6	293	9.9	9.9		*
* 3692.0			6.6	293	9.9	10.0		*
* 3694.0	29.7	314	6.6	291	10.0	10.1	3	*
* 3696.0	29.3	311	6.6	293	10.0	10.0	3	*
* 3698.0			6.6	294	10.0	10.0		*
* 3700.0			6.6	294	10.0	10.0		*
* 3702.0	35.3	310	6.6	293	9.9	9.9	1	*
* 3704.0	36.2	310	6.6	293	9.9	9.9	3	*
* 3706.0			6.6	292	10.0	10.0		*
* 3708.0			6.6	291	10.0	9.8		*
* 3710.0			6.6	291	9.8	9.6		*
* 3712.0	26.7	158	6.6	291	9.8	9.6	3	*
* 3714.0	25.2	290	6.6	292	9.8	9.7	1	*
* 3716.0	14.4	216	6.6	291	10.0	9.7	1	*
* 3718.0			6.6	292	10.2	9.7		*
* 3720.0	22.2	309	6.6	289	10.2	9.8	3	*
* 3722.0			6.6	286	10.2	10.0		*
* 3724.0	7.3	114	6.6	303	9.4	9.2	3	*
* 3726.0	28.9	307	6.6	305	9.4	9.0	3	*
* 3728.0	27.3	315	6.6	291	10.3	9.6	3	*
* 3730.0			6.6	291	10.3	9.6		*
* 3732.0			6.6	292	10.1	9.6		*
* 3734.0			6.6	291	10.1	9.6		*
* 3736.0	25.0	321	6.6	291	10.2	9.6	1	*
* 3738.0	24.9	323	6.6	292	10.4	9.5	1	*

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* ----- * INDEX *

* DEPTH * DIP DIP * DEV. DEV. DIAM DIAM * BEST *

* * AZI. * AZI. 1-3 2-4 * #4 *

* 3830.0	49.9	319	6.7	292	9.8	9.4	1	*
* 3832.0			6.7	293	9.7	9.3		*
* 3834.0			6.7	293	9.8	9.4		*
* 3836.0			6.7	293	9.9	9.4		*
* 3838.0			6.7	293	10.0	9.5		*
* 3840.0	26.7	323	6.7	293	10.3	9.6	3	*
* 3842.0	28.7	321	6.7	293	10.3	9.7	3	*
* 3844.0	37.7	310	6.7	292	10.1	9.8	1	*
* 3846.0	39.9	312	6.7	293	10.4	9.9	1	*
* 3848.0			6.7	293	10.5	9.9		*
* 3850.0	26.2	322	6.7	294	10.3	10.0	3	*
* 3852.0	23.9	314	6.7	294	10.3	10.0	3	*
* 3854.0	26.1	316	6.7	293	10.3	10.1	1	*
* 3856.0	28.4	319	6.7	293	10.4	10.1	3	*
* 3858.0	37.9	325	6.7	293	10.5	10.1	3	*
* 3860.0	24.3	323	6.7	293	10.6	10.1	1	*
* 3862.0	26.2	324	6.7	292	10.5	10.1	3	*
* 3864.0	22.3	319	6.7	293	10.4	10.1	1	*
* 3866.0	25.1	321	6.7	294	10.5	10.1	1	*
* 3868.0	27.3	328	6.7	294	10.3	10.0	1	*
* 3870.0			6.7	293	10.3	10.0		*
* 3872.0			6.7	292	10.4	10.0		*
* 3874.0			6.7	292	10.5	10.0		*
* 3876.0			6.7	293	10.5	10.0		*
* 3878.0			6.7	294	10.2	9.9		*
* 3880.0	46.9	346	6.7	295	10.2	9.6	1	*
* 3882.0			6.7	295	10.0	9.5		*
* 3884.0	42.7	349	6.7	297	9.8	9.5	1	*
* 3886.0	43.2	351	6.7	297	9.8	9.4	1	*
* 3888.0			6.7	298	9.7	9.4		*
* 3890.0			6.7	296	9.7	9.3		*
* 3892.0			6.7	295	9.6	9.2		*
* 3894.0			6.7	296	9.6	9.2		*
* 3896.0	26.4	291	6.7	295	9.6	9.3	4	*
* 3898.0	17.4	309	6.7	296	9.6	9.4	4	*
* 3900.0	23.5	314	6.7	297	9.6	9.4	4	*
* 3902.0	31.0	292	6.7	297	9.6	9.4	4	*
* 3904.0	27.2	289	6.7	296	9.7	9.4	2	*
* 3906.0	38.0	306	6.7	296	9.7	9.5	2	*
* 3908.0			6.7	297	9.7	9.4		*
* 3910.0	16.8	309	6.7	296	9.7	9.4	4	*
* 3912.0	19.1	307	6.7	297	9.7	9.4	3	*
* 3914.0			6.7	297	9.7	9.3		*
* 3916.0			6.7	299	9.6	9.4		*
* 3918.0	23.7	316	6.7	299	9.6	9.3	3	*

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* ----- * INDEX *

* DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *

* * * * * AZI. * AZI. * 1-3 * 2-4 * #4 *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
		AZI.		AZI.	1-3	2-4	#4
4010.0	13.1	343	6.7	294	10.2	9.9	1
4012.0	15.4	181	6.7	292	10.0	9.9	3
4014.0	18.5	189	6.7	294	9.8	9.9	1
4016.0			6.7	294	9.9	9.9	
4018.0			6.7	292	10.0	9.9	
4020.0	19.5	325	6.7	292	10.0	9.9	1
4022.0	11.8	324	6.7	292	9.9	9.9	3
4024.0	21.1	163	6.7	293	9.6	9.9	1
4026.0			6.7	293	9.9	9.9	
4028.0			6.7	293	9.9	9.9	
4030.0	16.3	318	6.7	294	9.9	9.9	1
4032.0			6.7	295	10.0	9.9	
4034.0	23.0	314	6.7	295	9.9	9.9	1
4036.0			6.7	294	9.9	9.9	
4038.0			6.7	293	10.0	10.0	
4040.0			6.7	294	10.0	10.0	
4042.0	34.0	344	6.7	295	10.0	10.1	1
4044.0	39.3	349	6.7	294	10.0	10.1	1
4046.0			6.7	293	9.9	10.1	
4048.0	37.7	1	6.7	294	10.0	10.1	3
4050.0	15.3	338	6.7	294	10.0	10.2	1
4052.0			6.7	292	10.0	10.4	
4054.0			6.7	293	10.2	10.4	
4056.0			6.7	294	10.3	10.4	
4058.0	50.4	299	6.7	293	10.2	10.5	1
4060.0			6.6	292	10.0	10.5	
4062.0			6.6	295	10.0	10.6	
4064.0	46.5	295	6.6	296	10.0	10.6	1
4066.0			6.6	292	9.9	10.6	
4068.0			6.6	293	10.1	10.5	
4070.0			6.6	296	10.0	10.4	
4072.0			6.6	294	10.2	10.3	
4074.0			6.6	294	10.3	10.2	
4076.0			6.6	296	10.2	10.0	
4078.0			6.5	295	10.4	9.8	
4080.0			6.5	291	10.4	9.7	
4082.0			6.5	292	10.2	9.7	
4084.0			6.5	295	10.2	9.7	
4086.0			6.5	293	10.5	9.6	
4088.0			6.5	292	10.4	9.6	
4090.0			6.5	295	10.2	9.8	
4092.0	56.4	337	6.5	294	10.1	9.9	1
4094.0			6.5	292	10.1	9.9	
4096.0			6.4	295	10.0	10.0	
4098.0			6.4	296	10.0	10.1	

* FORMATION * BOREHOLE * QUAL. *

* ----- * INDEX *

* DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *

* * * AZI. * * AZI. * 1-3 * 2-4 * =4 *

* 4100.0			6.4	293	10.1	10.2		*
* 4102.0			6.4	293	10.1	10.4		*
* 4104.0			6.4	294	10.2	10.4		*
* 4106.0			6.4	293	10.1	10.3		*
* 4108.0			6.4	292	9.9	10.3		*
* 4110.0	56.1	341	6.4	294	10.2	10.2	1	*
* 4112.0			6.4	294	10.1	10.1		*
* 4114.0	18.2	198	6.3	292	9.9	10.2	1	*
* 4116.0	60.0	176	6.3	292	10.0	10.1	3	*
* 4118.0	59.6	175	6.3	294	10.2	10.0	1	*
* 4120.0			6.3	294	10.2	9.9		*
* 4122.0			6.3	294	10.0	9.9		*
* 4124.0			6.3	294	10.0	9.9		*
* 4126.0	18.8	176	6.3	294	10.1	9.9	1	*
* 4128.0			6.3	294	10.0	9.8		*
* 4130.0			6.3	295	10.0	9.8		*
* 4132.0			6.3	295	10.0	9.7		*
* 4134.0			6.3	292	10.0	9.7		*
* 4136.0			6.3	291	10.1	9.9		*
* 4138.0	15.9	347	6.3	293	10.1	9.9	1	*
* 4140.0			6.3	292	10.1	9.8		*
* 4142.0			6.3	290	10.1	9.7		*
* 4144.0	18.1	335	6.3	292	10.0	9.7	1	*
* 4146.0	18.0	334	6.3	291	9.9	9.6	3	*
* 4148.0	18.2	337	6.3	290	9.8	9.6	1	*
* 4150.0	27.4	329	6.3	292	9.8	9.6	1	*
* 4152.0	30.3	335	6.2	293	9.7	9.5	3	*
* 4154.0	34.3	334	6.2	291	9.7	9.5	1	*
* 4156.0	32.8	339	6.2	291	9.7	9.5	3	*
* 4158.0	31.0	339	6.2	292	9.7	9.5	1	*
* 4160.0	32.7	326	6.2	291	9.8	9.5	3	*
* 4162.0	28.2	342	6.2	291	10.0	9.6	1	*
* 4164.0	36.0	330	6.2	293	10.1	9.7	1	*
* 4166.0			6.2	292	10.3	9.8		*
* 4168.0			6.2	290	10.2	9.9		*
* 4170.0	28.6	344	6.2	291	10.2	9.9	1	*
* 4172.0	20.6	321	6.2	293	10.2	10.1	1	*
* 4174.0	32.7	319	6.2	290	10.3	10.3	1	*
* 4176.0	27.6	324	6.2	290	10.4	10.4	1	*
* 4178.0			6.2	291	10.5	10.5		*
* 4180.0	32.2	318	6.2	291	11.0	10.7	1	*
* 4182.0	20.1	303	6.2	289	10.9	10.8	1	*
* 4184.0			6.2	290	10.6	10.6		*
* 4186.0			6.2	290	10.6	10.5		*
* 4188.0			6.2	291	10.7	10.5		*

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*****
#          #          FORMATION          #          BOREHOLE          #          QUAL.          #
#          #          -----          #          -----          #          INDEX          #
#          #          #          #          #          #          #          #          #          #          #          #
#          #          #          #          #          #          #          #          #          #          #          #
#          #          #          #          #          #          #          #          #          #          #          #
*****
# 4190.0          #          #          #          #          #          #          #          #          #          #
# 4192.0          #          #          #          #          #          #          #          #          #          #
# 4194.0          #          #          #          #          #          #          #          #          #          #
# 4196.0          #          #          #          #          #          #          #          #          #          #
# 4198.0          #          #          #          #          #          #          #          #          #          #
# 4200.0          #          #          #          #          #          #          #          #          #          #
# 4202.0          #          #          #          #          #          #          #          #          #          #
# 4204.0          #          #          #          #          #          #          #          #          #          #
# 4206.0          #          #          #          #          #          #          #          #          #          #
# 4208.0          #          #          #          #          #          #          #          #          #          #
# 4210.0          #          #          #          #          #          #          #          #          #          #
# 4212.0          #          #          #          #          #          #          #          #          #          #
# 4214.0          # 30.3          # 318          #          #          #          #          #          #          #
# 4216.0          # 13.4          # 323          #          #          #          #          #          #          #
# 4218.0          # 20.3          # 318          #          #          #          #          #          #          #
# 4220.0          # 20.5          # 318          #          #          #          #          #          #          #
# 4222.0          #          #          #          #          #          #          #          #          #          #
# 4224.0          #          #          #          #          #          #          #          #          #          #
# 4226.0          #          #          #          #          #          #          #          #          #          #
# 4228.0          #          #          #          #          #          #          #          #          #          #
# 4230.0          # 20.9          # 303          #          #          #          #          #          #          #
# 4232.0          #          #          #          #          #          #          #          #          #          #
# 4234.0          # 47.1          # 56          #          #          #          #          #          #          #
# 4236.0          #          #          #          #          #          #          #          #          #          #
# 4238.0          #          #          #          #          #          #          #          #          #          #
# 4240.0          #          #          #          #          #          #          #          #          #          #
# 4242.0          # 43.5          # 57          #          #          #          #          #          #          #
# 4244.0          # 43.6          # 57          #          #          #          #          #          #          #
# 4246.0          # 24.3          # 340          #          #          #          #          #          #          #
# 4248.0          # 30.8          # 30          #          #          #          #          #          #          #
# 4250.0          #          #          #          #          #          #          #          #          #          #
# 4252.0          #          #          #          #          #          #          #          #          #          #
# 4254.0          # 23.3          # 341          #          #          #          #          #          #          #
# 4256.0          # 23.3          # 341          #          #          #          #          #          #          #
# 4258.0          # 20.6          # 344          #          #          #          #          #          #          #
# 4260.0          #          #          #          #          #          #          #          #          #          #
# 4262.0          #          #          #          #          #          #          #          #          #          #
# 4264.0          #          #          #          #          #          #          #          #          #          #
# 4266.0          # 21.6          # 346          #          #          #          #          #          #          #
# 4268.0          # 24.8          # 313          #          #          #          #          #          #          #
# 4270.0          # 25.1          # 311          #          #          #          #          #          #          #
# 4272.0          # 21.5          # 354          #          #          #          #          #          #          #
# 4274.0          # 21.9          # 355          #          #          #          #          #          #          #
# 4276.0          # 9.9          # 5          #          #          #          #          #          #          #
# 4278.0          # 12.5          # 3          #          #          #          #          #          #          #
*****

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* * * * * FORMATION * * * * * BOREHOLE * * * * * QUAL. * * * * *									
* * * * * INDEX * * * * *									
DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST		
		AZI.		AZI.	1-3	2-4	#	=4	

4370.0	47.4	285	6.0	283	9.8	9.4	1		
4372.0	36.7	292	6.0	281	9.7	9.4	3		
4374.0	42.6	290	6.0	283	9.8	9.4	1		
4376.0			6.0	284	9.8	9.4			
4378.0			5.9	283	9.8	9.4			
4380.0			5.9	284	9.8	9.4			
4382.0			6.0	285	9.8	9.4			
4384.0	50.3	330	6.0	285	9.8	9.3	1		
4386.0	37.1	267	6.0	285	9.7	9.3	3		
4388.0	50.4	332	6.0	285	9.7	9.2	1		
4390.0			6.0	284	9.7	9.2			
4392.0			6.0	284	9.7	9.3			
4394.0			6.0	286	9.7	9.3			
4396.0	68.6	15	6.0	285	9.8	9.3	1		
4398.0			6.0	284	9.8	9.4			
4400.0			6.0	284	9.8	9.4			
4402.0			6.0	283	9.9	9.4			
4404.0			6.0	284	9.9	9.3			
4406.0			6.0	285	10.0	9.3			
4408.0			6.0	284	10.0	9.4			
4410.0			6.0	282	10.1	9.3			
4412.0			6.0	283	10.1	9.4			
4414.0			6.0	282	10.1	9.3			
4416.0			6.0	282	10.0	9.3			
4418.0	24.2	345	6.0	283	9.9	9.3	3		
4420.0	21.5	342	6.0	283	9.8	9.3	1		
4422.0			6.0	282	9.7	9.3			
4424.0			6.0	282	9.8	9.3			
4426.0			6.0	282	9.7	9.3			
4428.0			6.0	282	9.7	9.3			
4430.0			6.0	282	9.7	9.4			
4432.0			6.0	283	9.7	9.4			
4434.0			6.0	282	9.8	9.4			
4436.0			6.0	282	9.8	9.4			
4438.0			6.0	282	9.8	9.4			
4440.0			6.0	281	9.8	9.4			
4442.0			6.0	281	9.8	9.5			
4444.0	46.6	345	6.0	283	9.8	9.5	1		
4446.0	46.5	344	6.0	283	9.8	9.5	1		
4448.0			6.0	281	9.8	9.5			
4450.0			6.0	281	9.8	9.5			
4452.0			6.0	281	9.8	9.5			
4454.0			6.0	281	9.9	9.5			
4456.0			6.0	282	9.9	9.5			
4458.0			6.0	282	9.8	9.5			

* FORMATION * BOREHOLE * QUAL. *									
* ----- * INDEX *									
DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST		
		AZI.		AZI.	1-3	2-4	=4		

4460.0			6.0	281	9.8	9.5			
4462.0			6.0	281	9.8	9.5			
4464.0	57.7	231	6.0	282	9.8	9.5	1		
4466.0	47.2	243	6.0	276	9.7	9.6	1		
4468.0			6.0	276	9.7	9.6			
4470.0			6.0	278	9.8	9.7			
4472.0	54.6	242	6.0	279	9.8	9.7	1		
4474.0	51.6	235	6.0	278	9.8	9.7	1		
4476.0			6.0	278	9.9	9.7			
4478.0			6.0	278	9.9	9.8			
4480.0			6.0	278	9.8	9.8			
4482.0	67.5	307	6.0	278	9.8	9.7	1		
4484.0			6.0	279	9.8	9.7			
4486.0			6.0	278	9.8	9.7			
4488.0			6.0	278	9.7	9.6			
4490.0			6.0	278	9.7	9.6			
4492.0	45.8	343	6.0	278	9.7	9.5	1		
4494.0	44.9	112	6.0	278	9.7	9.5	1		
4496.0	44.5	112	6.0	278	9.7	9.5	1		
4498.0			6.0	277	9.7	9.5			
4500.0			6.0	277	9.7	9.5			
4502.0			6.0	279	9.7	9.5			
4504.0	64.8	255	6.0	278	9.8	9.5	1		
4506.0	64.9	254	6.0	276	9.7	9.5	1		
4508.0			6.0	278	9.8	9.5			
4510.0			6.0	280	9.8	9.6			
4512.0	6.7	39	6.0	278	9.8	9.6	1		
4514.0	7.5	45	6.0	277	9.8	9.6	1		
4516.0	18.3	357	6.0	278	9.8	9.6	1		
4518.0	20.1	11	6.0	278	9.8	9.6	3		
4520.0	20.0	11	6.0	278	9.8	9.6	3		
4522.0	31.8	264	6.0	278	9.8	9.6	1		
4524.0	31.7	265	6.0	279	9.8	9.6	1		
4526.0	25.5	1	6.0	278	9.8	9.6	3		
4528.0	27.6	358	6.0	278	9.8	9.6	1		
4530.0	44.0	321	6.0	278	9.8	9.6	1		
4532.0			6.0	280	9.8	9.6			
4534.0	22.4	15	6.0	281	9.8	9.6	1		
4536.0	30.5	322	6.0	281	9.8	9.6	1		
4538.0	30.5	321	6.0	280	9.8	9.6	1		
4540.0			6.0	280	9.8	9.6			
4542.0			6.0	280	9.8	9.6			
4544.0	43.5	353	6.0	279	9.8	9.6	1		
4546.0			6.0	279	9.8	9.6			
4548.0			6.0	280	9.8	9.6			

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 * DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *
 * * * AZI. * * AZI. * 1-3 * 2-4 * =4 *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
	AZI.		AZI.		1-3	2-4	=4
4550.0	24.1	5	6.0	279	9.8	9.6	1
4552.0	29.5	2	6.0	279	9.8	9.6	3
4554.0	24.5	344	6.0	281	9.8	9.6	1
4556.0	24.6	342	6.0	281	9.8	9.5	1
4558.0	26.4	6	6.0	280	9.7	9.5	1
4560.0	25.4	359	6.0	280	9.7	9.5	3
4562.0	31.5	356	6.0	280	9.7	9.5	4
4564.0	31.9	354	6.0	280	9.7	9.5	4
4566.0	35.7	354	6.0	279	9.7	9.5	4
4568.0	31.9	355	6.0	281	9.7	9.4	4
4570.0	30.3	360	6.0	281	9.7	9.4	4
4572.0	39.4	359	6.0	281	9.7	9.4	3
4574.0	38.5	358	6.0	281	9.7	9.4	3
4576.0	38.7	360	6.0	281	9.7	9.4	3
4578.0			6.0	280	9.7	9.4	
4580.0			6.0	279	9.7	9.4	
4582.0	46.2	10	6.0	278	9.7	9.5	1
4584.0			6.0	278	9.8	9.5	
4586.0			6.0	279	9.8	9.5	
4588.0	39.9	273	6.0	280	9.7	9.5	1
4590.0	10.8	290	6.0	278	9.7	9.5	1
4592.0	10.7	294	6.0	279	9.8	9.5	3
4594.0	4.0	224	6.0	280	9.8	9.5	1
4596.0	36.2	99	6.0	278	9.8	9.5	1
4598.0	35.7	98	6.0	278	9.8	9.5	1
4600.0	45.7	218	6.0	279	9.9	9.5	1
4602.0			6.0	278	9.8	9.5	
4604.0	54.1	124	6.0	278	9.7	9.5	1
4606.0			6.0	279	9.7	9.5	
4608.0			6.0	280	9.7	9.4	
4610.0			6.0	279	9.7	9.4	
4612.0	55.2	6	6.0	279	9.7	9.5	3
4614.0	55.0	7	6.0	279	9.7	9.5	1
4616.0			6.0	277	9.7	9.5	
4618.0			6.0	277	9.7	9.5	
4620.0			6.0	277	9.7	9.5	
4622.0			6.0	277	9.7	9.4	
4624.0			6.0	279	9.7	9.4	
4626.0			6.0	279	9.8	9.5	
4628.0	55.1	297	6.0	278	9.8	9.5	1
4630.0			6.0	278	9.8	9.5	
4632.0	49.9	293	6.0	279	9.8	9.4	1
4634.0	47.0	299	6.0	277	9.8	9.4	1
4636.0	44.9	298	6.0	278	9.7	9.4	1
4638.0	65.7	62	6.0	280	9.7	9.3	1

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 * DEPTH * DIP DIP * DEV. DEV. DIAM DIAM * BEST *
 * * AZI. * AZI. 1-3 2-4 * =4 *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
	AZI.		AZI.		1-3	2-4	=4
4640.0			6.0	279	9.7	9.2	
4642.0			6.0	279	9.7	9.2	
4644.0			6.0	280	9.6	9.2	
4646.0	16.8	301	6.0	280	9.7	9.3	1
4648.0			6.0	279	9.7	9.3	
4650.0			6.0	278	9.7	9.3	
4652.0			6.0	278	9.7	9.3	
4654.0	20.0	319	6.0	278	9.7	9.3	3
4656.0	26.7	315	6.0	278	9.7	9.2	1
4658.0			6.0	278	9.8	9.3	
4660.0			6.0	279	9.7	9.3	
4662.0			6.0	279	9.7	9.3	
4664.0	14.2	323	6.0	280	9.7	9.3	3
4666.0	9.6	322	6.0	280	9.7	9.3	3
4668.0			6.0	278	9.7	9.2	
4670.0			6.0	278	9.7	9.2	
4672.0	7.6	301	6.0	278	9.7	9.2	1
4674.0	7.6	299	6.0	278	9.6	9.2	1
4676.0			6.0	280	9.6	9.2	
4678.0			6.0	281	9.6	9.2	
4680.0			6.0	280	9.6	9.2	
4682.0			6.0	280	9.6	9.2	
4684.0			6.0	281	9.6	9.2	
4686.0			6.0	279	9.6	9.2	
4688.0			6.0	278	9.7	9.2	
4690.0			6.0	280	9.7	9.2	
4692.0			6.0	280	9.6	9.1	
4694.0			6.0	279	9.6	9.1	
4696.0			6.0	281	9.5	9.1	
4698.0			6.0	281	9.5	9.1	
4700.0			6.0	279	9.5	9.1	
4702.0			6.0	279	9.5	9.1	
4704.0			6.0	281	9.5	9.1	
4706.0			6.0	280	9.6	9.1	
4708.0			6.0	281	9.6	9.1	
4710.0			6.0	281	9.6	9.1	
4712.0			6.0	281	9.6	9.2	
4714.0	30.7	354	6.0	281	9.6	9.2	1
4716.0	30.6	353	6.0	280	9.6	9.2	1
4718.0	21.1	351	6.0	278	9.7	9.2	1
4720.0			6.0	279	9.7	9.2	
4722.0			6.0	279	9.6	9.2	
4724.0	12.0	17	6.0	279	9.6	9.2	1
4726.0			6.0	279	9.6	9.2	
4728.0			6.0	279	9.6	9.2	

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* DEPTH * DIP DIP * DEV. DEV. DIAM DIAM * BEST *
* * AZI. * AZI. 1-3 2-4 * #4 *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
	AZI.	AZI.			1-3	2-4	#4
4730.0			6.0	279	9.6	9.2	
4732.0			6.0	280	9.6	9.3	
4734.0			5.9	280	9.7	9.3	
4736.0			5.9	280	9.7	9.3	
4738.0			6.0	281	9.7	9.2	
4740.0			6.0	279	9.7	9.2	
4742.0			6.0	278	9.6	9.2	
4744.0			6.0	279	9.5	9.1	
4746.0			6.0	277	9.5	9.1	
4748.0			6.0	277	9.7	9.1	
4750.0			6.0	279	9.8	9.2	
4752.0			6.0	280	9.5	9.2	
4754.0			6.0	280	9.3	9.2	
4756.0			5.9	282	9.3	9.1	
4758.0			5.8	281	9.3	9.1	
4760.0			5.8	281	9.4	9.1	
4762.0			5.8	284	9.4	9.1	
4764.0			5.8	285	9.5	9.2	
4766.0			5.8	286	9.7	9.2	
4768.0			5.8	284	9.6	9.2	
4770.0			5.8	282	9.5	9.2	
4772.0			5.6	281	9.4	9.2	
4774.0			5.8	279	9.4	9.2	
4776.0			5.8	280	9.4	9.1	
4778.0			5.8	282	9.4	9.1	
4780.0	10.6	354	5.8	281	9.4	9.2	3
4782.0	12.5	349	5.8	280	9.6	9.2	3
4784.0			5.7	282	9.6	9.2	
4786.0	13.9	343	5.7	282	9.6	9.2	4
4788.0	13.5	344	5.7	283	9.6	9.2	4
4790.0	11.8	346	5.7	286	9.7	9.2	4
4792.0	9.5	346	5.7	281	9.7	9.3	4
4794.0	14.4	340	5.7	276	9.6	9.4	3
4796.0	20.4	282	5.7	277	9.7	9.4	1
4798.0	20.4	288	5.7	280	9.7	9.4	1
4800.0	19.2	348	5.7	278	9.7	9.4	3
4802.0	19.5	345	5.7	275	9.6	9.4	3
4804.0			5.7	275	9.7	9.4	
4806.0			5.7	274	9.7	9.4	
4808.0			5.8	274	9.7	9.4	
4810.0			5.8	274	9.6	9.5	
4812.0	24.7	238	5.8	274	9.6	9.5	1
4814.0	24.1	238	5.8	274	9.6	9.5	1
4816.0			5.8	274	9.4	9.5	
4818.0			5.8	274	9.5	9.5	

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 * DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *
 * * * AZI. * * AZI. * 1-3 * 2-4 * * 4 *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
	AZI.	AZI.			1-3	2-4	4
4910.0			5.8	272	9.5	9.3	
4912.0			5.8	272	9.5	9.3	
4914.0	31.4	343	5.9	273	9.6	9.3	1
4916.0	32.8	342	5.8	273	9.5	9.4	1
4918.0	31.6	342	5.8	273	9.5	9.3	1
4920.0			5.8	272	9.6	9.3	
4922.0			5.8	272	9.6	9.3	
4924.0	53.5	42	5.8	273	9.5	9.3	1
4926.0			5.8	273	9.6	9.2	
4928.0	44.9	34	5.9	273	9.7	9.2	1
4930.0			5.9	273	9.6	9.2	
4932.0			5.8	273	9.6	9.2	
4934.0			5.8	273	9.6	9.2	
4936.0	44.6	43	5.8	273	9.6	9.2	1
4938.0	44.5	42	5.8	273	9.6	9.2	1
4940.0	57.6	341	5.8	273	9.6	9.2	1
4942.0			5.9	273	9.6	9.2	
4944.0			5.9	272	9.5	9.3	
4946.0			5.8	272	9.6	9.3	
4948.0			5.8	274	9.7	9.3	
4950.0			5.9	273	9.7	9.3	
4952.0			5.9	272	9.6	9.3	
4954.0			5.8	273	9.7	9.3	
4956.0			5.9	273	9.8	9.2	
4958.0			5.9	273	9.7	9.2	
4960.0			5.9	273	9.6	9.2	
4962.0			5.9	272	9.6	9.2	
4964.0	16.0	243	5.9	271	9.6	9.2	1
4966.0			5.9	272	9.6	9.2	
4968.0			5.9	272	9.6	9.2	
4970.0	14.9	239	5.9	271	9.6	9.2	3
4972.0	15.8	237	5.9	272	9.6	9.2	1
4974.0			5.9	271	9.5	9.3	
4976.0			5.9	272	9.6	9.3	
4978.0			5.9	272	9.6	9.3	
4980.0	7.0	66	5.8	270	9.6	9.3	1
4982.0	6.0	54	5.9	269	9.7	9.3	3
4984.0			5.9	269	9.7	9.2	
4986.0			5.9	269	9.6	9.2	
4988.0			5.9	269	9.6	9.3	
4990.0			5.9	270	9.6	9.3	
4992.0			5.9	270	9.7	9.4	
4994.0	40.7	328	6.0	270	9.7	9.3	1
4996.0	39.0	328	5.9	271	9.6	9.4	1
4998.0			5.9	270	9.6	9.3	

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* DEPTH *	* DIP	* DIP	* DEV.	* DEV.	* DIAM	* DIAM	* BEST	* INDEX *	
* * *	* * *	* AZI. *	* * *	* AZI. *	* 1-3	* 2-4	* =4 *	* * *	

* 5000.0			5.9	269	9.7	9.3			*
* 5002.0			6.0	270	9.6	9.3			*
* 5004.0			5.9	269	9.5	9.3			*
* 5006.0			5.9	268	9.6	9.2			*
* 5008.0			5.9	270	9.6	9.2			*
* 5010.0			5.9	269	9.6	9.3			*
* 5012.0			5.9	268	9.6	9.2			*
* 5014.0	14.7	353	5.9	269	9.6	9.2	1		*
* 5016.0	13.3	6	5.9	269	9.6	9.3	3		*
* 5018.0	15.2	7	5.9	270	9.6	9.3	3		*
* 5020.0	13.8	16	5.9	269	9.6	9.3	1		*
* 5022.0			5.9	269	9.6	9.2			*
* 5024.0			5.9	269	9.6	9.2			*
* 5026.0			6.0	269	9.6	9.2			*
* 5028.0			6.0	268	9.6	9.2			*
* 5030.0			6.0	269	9.5	9.2			*
* 5032.0			6.0	268	9.4	9.2			*
* 5034.0			6.0	268	9.4	9.2			*
* 5036.0			6.0	268	9.4	9.2			*
* 5038.0			6.0	269	9.3	9.2			*
* 5040.0			6.0	269	9.4	9.2			*
* 5042.0			6.0	269	9.5	9.2			*
* 5044.0			6.0	269	9.5	9.2			*
* 5046.0	43.7	300	6.0	270	9.5	9.3	1		*
* 5048.0			6.0	270	9.5	9.3			*
* 5050.0	31.7	336	6.0	269	9.6	9.3	1		*
* 5052.0	30.2	335	6.0	269	9.5	9.3	1		*
* 5054.0			6.0	270	9.6	9.3			*
* 5056.0	44.1	297	6.0	270	9.6	9.3	3		*
* 5058.0	45.5	298	6.0	271	9.7	9.2	3		*
* 5060.0			6.0	270	9.6	9.3			*
* 5062.0	33.2	3	6.0	271	9.6	9.2	3		*
* 5064.0			6.0	272	9.8	9.2			*
* 5066.0			6.0	271	9.8	9.3			*
* 5068.0			6.0	270	9.7	9.3			*
* 5070.0			6.0	271	9.6	9.4			*
* 5072.0			6.0	271	9.6	9.3			*
* 5074.0			6.1	271	9.6	9.3			*
* 5076.0			6.1	271	9.5	9.3			*
* 5078.0			6.0	271	9.5	9.3			*
* 5080.0			6.1	271	9.6	9.4			*
* 5082.0			6.1	271	9.7	9.4			*
* 5084.0			6.1	270	10.0	9.5			*
* 5086.0			6.1	270	9.8	9.4			*
* 5088.0			6.0	272	9.7	9.3			*

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* DEPTH * DIP * DIP * DEV. * DEV. * DIAM * DIAM * BEST *

* * * AZI. * * AZI. * 1-3 * 2-4 * =4 *

DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST
		AZI.		AZI.	1-3	2-4	=4
* 5180.0			6.0	272	9.7	9.5	
* 5182.0			6.0	271	9.8	9.5	
* 5184.0	24.2	350	6.0	269	9.8	9.5	1
* 5186.0	26.6	10	6.0	269	9.7	9.5	1
* 5188.0			6.0	270	9.8	9.5	
* 5190.0			6.0	271	9.7	9.5	
* 5192.0	30.0	15	6.0	273	9.7	9.5	3
* 5194.0	30.1	15	6.0	272	9.7	9.5	3
* 5196.0			6.0	271	9.7	9.5	
* 5198.0			6.0	271	9.6	9.5	
* 5200.0			6.0	270	9.6	9.5	
* 5202.0			6.0	269	9.7	9.5	
* 5204.0			6.0	269	9.6	9.5	
* 5206.0			6.0	269	9.7	9.5	
* 5208.0			6.0	272	9.6	9.5	
* 5210.0			6.0	273	9.6	9.5	
* 5212.0			6.0	272	9.6	9.5	
* 5214.0			6.0	271	9.7	9.5	
* 5216.0			6.0	269	9.8	9.5	
* 5218.0			6.0	269	9.6	9.4	
* 5220.0			6.0	270	9.6	9.5	
* 5222.0			6.0	271	9.7	9.5	
* 5224.0	22.6	66	6.0	272	9.6	9.4	1
* 5226.0			6.0	273	9.5	9.4	
* 5228.0	18.3	29	6.0	272	9.6	9.4	1
* 5230.0	16.5	343	6.0	271	9.6	9.4	1
* 5232.0			6.0	270	9.6	9.3	
* 5234.0	40.4	19	6.0	269	9.6	9.3	1
* 5236.0	40.9	16	6.0	269	9.6	9.3	1
* 5238.0			6.0	268	9.6	9.4	
* 5240.0	28.9	345	6.0	270	9.6	9.4	1
* 5242.0	15.3	344	6.0	271	9.6	9.4	1
* 5244.0	30.2	354	6.0	272	9.5	9.4	2
* 5246.0	8.4	10	6.0	271	9.6	9.4	4
* 5248.0	8.5	7	6.0	270	9.5	9.3	4
* 5250.0	19.9	351	6.0	270	9.5	9.2	4
* 5252.0	17.3	4	6.0	269	9.5	9.2	4
* 5254.0	15.4	17	6.0	270	9.6	9.2	4
* 5256.0	17.4	9	6.0	270	9.6	9.2	4
* 5258.0			6.0	268	9.6	9.2	
* 5260.0	15.0	335	6.0	268	9.5	9.2	2
* 5262.0			6.0	268	9.4	9.3	
* 5264.0			6.0	269	9.6	9.3	
* 5266.0			6.0	271	9.7	9.3	
* 5268.0			6.0	272	9.6	9.3	

```

*****
#          *      FORMATION          *      BOREHOLE          *      QUAL.          *
#          *      -----          *      -----          *      INDEX          *
#  DEPTH  *      DIP      DIP      *      DEV.      DEV.      DIAM      DIAM      *      BEST          *
#          *      AZI.      *      AZI.      1-3      2-4      *      #4          *
*****
#  5270.0          *          *          *      6.0      273      9.6      9.3          *
#  5272.0          *          *          *      6.0      274      9.6      9.4          *
#  5274.0          *          *          *      6.0      273      9.6      9.4          *
#  5276.0          *          *          *      6.0      271      9.7      9.4          *
#  5278.0          *          *          *      6.0      270      9.8      9.4          *
#  5280.0          *          *          *      6.0      269      9.8      9.4          *
#  5282.0          *          *          *      6.0      268      9.8      9.3          *
#  5284.0          *          *          *      6.0      268      9.7      9.3          *
#  5286.0          *          *          *      6.0      269      9.6      9.3          *
#  5288.0          *          *          *      6.0      270      9.7      9.3          *
#  5290.0          *          *          *      6.0      271      9.8      9.2          *
#  5292.0          *          *          *      6.0      273      9.8      9.2          *
#  5294.0          *          *          *      6.0      273      9.7      9.2          *
#  5296.0      43.4      293          *      6.0      272      9.6      9.2          *      1          *
#  5298.0          *          *          *      6.0      271      9.6      9.2          *
#  5300.0      40.1      278          *      6.0      269      9.6      9.2          *      3          *
#  5302.0      41.6      276          *      6.0      268      9.7      9.3          *      1          *
#  5304.0          *          *          *      6.0      269      9.8      9.4          *
#  5306.0          *          *          *      6.0      270      9.7      9.4          *
#  5308.0      24.4      54          *      6.0      271      9.8      9.4          *      1          *
#  5310.0      24.1      54          *      6.0      270      9.8      9.4          *      1          *
#  5312.0          *          *          *      6.0      270      9.7      9.4          *
#  5314.0      56.6      213          *      6.0      269      9.7      9.4          *      3          *
#  5316.0      56.7      211          *      6.0      268      9.7      9.4          *      3          *
#  5318.0      57.3      220          *      6.0      267      9.8      9.4          *      1          *
#  5320.0      26.8      72          *      6.0      267      9.9      9.4          *      1          *
#  5322.0          *          *          *      6.0      268      9.9      9.3          *
#  5324.0      50.9      262          *      6.0      269      9.9      9.3          *      3          *
#  5326.0      49.3      261          *      6.0      270      9.7      9.3          *      1          *
#  5328.0          *          *          *      6.0      271      9.7      9.3          *
#  5330.0          *          *          *      6.0      271      9.7      9.3          *
#  5332.0          *          *          *      6.0      270      9.7      9.3          *
#  5334.0          *          *          *      6.0      269      9.7      9.4          *
#  5336.0          *          *          *      6.0      269      9.8      9.4          *
#  5338.0      43.3      253          *      6.0      268      9.9      9.4          *      1          *
#  5340.0      5.6      92          *      6.0      267      9.7      9.4          *      1          *
#  5342.0          *          *          *      6.0      267      9.7      9.4          *
#  5344.0          *          *          *      6.0      268      10.0      9.5          *
#  5346.0          *          *          *      6.0      269      10.0      9.5          *
#  5348.0          *          *          *      6.0      270      10.0      9.4          *
#  5350.0          *          *          *      6.0      270      10.0      9.4          *
#  5352.0          *          *          *      6.0      269      10.0      9.3          *
#  5354.0          *          *          *      6.0      269      10.0      9.3          *
#  5356.0          *          *          *      6.0      269      9.9      9.3          *
#  5358.0          *          *          *      6.0      268      10.0      9.3          *
*****

```


CCCCCCCC	LL	LL	CCCCCCCC	UU	UU	SSSSSSSS
CCCCCCCC	LL	LL	CCCCCCCC	UU	UU	SSSSSSSS
CC	LL	LL	CC	UU	UU	SS
CC	LL	LL	CC	UU	UU	SS
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CC	LL	LL	CC	UU	UU	SS
CC	LL	LL	CC	UU	UU	SSSSSS
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CC	LL	LL	CC	UU	UU	SS
CC	LL	LL	CC	UU	UU	SS
CC	LL	LL	CC	UU	UU	SS
CCCCCCCC	LLLLLLLLLL	LLLLLLLLLL	CCCCCCCC	UUUUUUUUUU		SSSSSSSS
CCCCCCCC	LLLLLLLLLL	LLLLLLLLLL	CCCCCCCC	UUUUUUUUUU		SSSSSSSS

000000	000000	222222
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00 00	00 00	22 22
00 00	00 00	22 22
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00 00	00 00	22
00 00	00 00	22
000000	000000	2222222222
000000	000000	2222222222

```

*START* USER RMCC [10066,4107] JOB CLLCUS SEQ. 2927 DATE 13-MAR-78 05:20:20
MONITOR SWS KL10B07 10-MAR-78 *START*
FILE: DSKH:CLLCUS.002<057>[10066,4107] CREATED: 13-MAR-78 05:17:38
PRINTED: 13-MAR-78 05:22:50
QUEUE SWITCHES: /FILE:FORT /COPIES:5
/SPACING:1 /LIMIT:666 /FORMS:NARROW

```