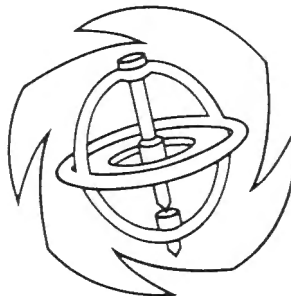


sperry-sun
DRILLING SERVICES
OF CANADA

DIRECTIONAL
SURVEY REPORT

015176 **FOR**

CURRAGH 91DY-05



TYPE OF SURVEY: GYROSCOPIC DIRECTIONAL

SURVEY DEPTH: FROM 0 ft. TO: 2200 ft.

LEASE: CURRAGH 91DY-05

FIELD/AREA: FARO

PROVINCE: YUKON JOB NO. CX-LB-10128

DATE OF SURVEY: 1991 02 18

OFFICE: EDMONTON

1406 - 5TH STREET

NISKU, ALBERTA T0C 2G0

TELEPHONE (403) 955-7606

GYROSCOPIC DIRECTIONAL SURVEY

CURRAGH RESOURCES INC.
 CURRAGH 91DY-05
 REFERENCE DIRECTION IS TRUE NORTH

1991 02 20
 CX-LB-10128
 VERTICAL SECTION ALONG CLOSURE
 DISTANCES ARE IN FEET

TOTAL MEAS DEPTH	ANGLE DEG.DEC	AZIMUTH DEG.DEC	TRUE VERTICAL DEPTH	TOTAL NORTH	CO-ORDINATES EAST	VERTICAL SECTION	DLS PER 100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20.00	0.75	173.22	20.00	-0.13	0.02	0.00	3.75
50.00	1.47	152.88	49.99	-0.67	0.21	-0.14	2.70
100.00	1.08	167.09	99.98	-1.70	0.61	-0.42	1.00
150.00	1.30	168.29	149.97	-2.71	0.83	-0.53	0.44
200.00	1.22	178.97	199.96	-3.80	0.96	-0.54	0.50
250.00	1.33	185.23	249.95	-4.91	0.91	-0.37	0.35
300.00	1.50	196.98	299.93	-6.11	0.67	0.00	0.67
350.00	1.67	200.26	349.91	-7.42	0.23	0.59	0.39
400.00	1.80	216.49	399.89	-8.74	-0.49	1.45	1.01
450.00	1.97	214.14	449.86	-10.08	-1.44	2.54	0.37
500.00	2.08	220.38	499.83	-11.48	-2.51	3.75	0.49
550.00	2.30	230.11	549.79	-12.82	-3.87	5.25	0.86
600.00	2.25	222.67	599.76	-14.18	-5.31	6.83	0.60
650.00	2.67	222.90	649.71	-15.76	-6.76	8.45	0.84
700.00	2.77	233.05	699.65	-17.34	-8.52	10.37	0.98
750.00	2.93	236.35	749.59	-18.77	-10.55	12.54	0.46
800.00	3.17	249.11	799.52	-19.97	-12.91	15.02	1.44
850.00	3.08	245.87	849.45	-21.01	-15.42	17.63	0.40
900.00	2.95	247.55	899.38	-22.05	-17.84	20.15	0.31
950.00	3.00	245.32	949.31	-23.09	-20.22	22.62	0.25
1000.00	3.05	245.59	999.24	-24.19	-22.62	25.13	0.10
1050.00	3.17	251.87	1049.17	-25.17	-25.14	27.75	0.72
1100.00	3.17	252.65	1099.09	-26.01	-27.78	30.46	0.09
1150.00	3.00	251.94	1149.02	-26.83	-30.34	33.09	0.35
1200.00	3.08	270.00	1198.95	-27.23	-32.93	35.71	1.91
1250.00	2.88	256.47	1248.88	-27.53	-35.49	38.29	1.46
1300.00	3.15	260.25	1298.81	-28.05	-38.07	40.91	0.67
1350.00	3.13	262.97	1348.74	-28.45	-40.77	43.64	0.30
1400.00	3.30	264.35	1398.66	-28.76	-43.56	46.45	0.37
1450.00	3.63	266.24	1448.57	-29.01	-46.57	49.47	0.70
1500.00	3.80	266.61	1498.46	-29.21	-49.81	52.70	0.34
1550.00	4.00	270.54	1548.35	-29.29	-53.20	56.09	0.67
1600.00	4.55	276.51	1598.21	-29.05	-56.92	59.76	1.41
1650.00	4.70	280.26	1648.04	-28.46	-60.90	63.65	0.67
1700.00	5.03	281.21	1697.86	-27.67	-65.07	67.71	0.68
1750.00	5.17	280.66	1747.67	-26.83	-69.43	71.95	0.30
1800.00	5.25	283.11	1797.46	-25.89	-73.88	76.27	0.47
1850.00	5.33	284.07	1847.25	-24.81	-78.36	80.60	0.24
1900.00	5.58	285.51	1897.02	-23.59	-82.95	85.04	0.57

GYROSCOPIC DIRECTIONAL SURVEY

1991 02 20

CURRAGH RESOURCES INC.
 CURRAGH 91DY-05
 REFERENCE DIRECTION IS TRUE NORTH

CX-LB-10128
 VERTICAL SECTION ALONG CLOSURE
 DISTANCES ARE IN FEET

TOTAL MEAS DEPTH	ANGLE DEG.DEC	AZIMUTH DEG.DEC	TRUE VERTICAL DEPTH	TOTAL NORTH	CO-ORDINATES EAST	VERTICAL SECTION	DLS PER 100
1950.00	5.63	286.96	1946.78	-22.23	-87.64	89.55	0.30
2000.00	5.72	285.43	1996.54	-20.85	-92.39	94.12	0.35
2050.00	6.03	287.73	2046.27	-19.39	-97.29	98.83	0.78
2100.00	6.08	292.20	2096.00	-17.59	-102.24	103.56	0.95
2150.00	6.73	296.70	2145.68	-15.27	-107.31	108.34	1.64
2200.00	7.75	296.72	2195.28	-12.44	-112.94	113.63	2.04

MINIMUM CURVATURE METHOD

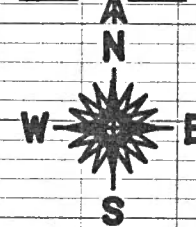
HORIZONTAL DISPLACEMENT AT BOTTOM HOLE IS
 113.63 FEET ALONG 263.72 DEG
 RELATIVE TO WELL HEAD

VERTICAL SECTION RELATIVE TO WELL HEAD



SPERRY-SUN DRILLING SERVICES

HORIZONTAL PLOT FOR CURRAGH 91DY-05



CURRAGH RESOURCES INC.
REF. IS WELLHEAD
1991 02 22
CX-LB-10128

START MD. = 0
FINISH MD. = 2200
AXIS IS TRUE NORTH
SCALE IS 20 FEET/INCH

PLOTTED VALUES SHOWN ARE MEASURED DEPTHS

