

005079

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**COLE DIRECTIONAL SYSTEMS**  
**PROPOSAL FOR CORRECTION RUN**  
**CORING TO CENTRE LINE W/ Ø DL**  
**CORRECTION TO VERTICAL**

CURRAGH RESOURCES INC.  
 900Y-0A-DS PROP W/ Ø DL

CRF100  
 29-AUG-90

MEASURED DEPTH	INCL. DEG	AZIMUTH DEG	STATION TVD	CO-ORDINATES NORTH	EAST	VERTICAL SECTION	DOG LEG
637.00	1.45	203.8	636.87	-10.94	-5.17	7.73	0.00
650.00	1.45	203.8	649.87	-11.24	-5.25	7.93	0.00
658.00	1.45	203.8	657.86	-11.43	-5.33	8.06	0.00
675.00	0.94	203.8	674.86	-11.75	-5.49	8.28	3.00
700.00	0.19	203.8	699.86	-11.98	-5.58	8.43	3.00
725.00	0.56	23.8	724.86	-11.90	-5.54	8.38	3.00
730.00	0.71	23.8	729.86	-11.85	-5.52	8.35	2.99
750.00	1.31	23.8	749.85	-11.53	-5.38	8.13	3.00
775.00	1.31	23.8	774.85	-11.01	-5.19	7.77	0.00
800.00	1.31	23.8	799.84	-10.48	-4.92	7.42	0.00
825.00	1.31	23.8	824.83	-9.96	-4.69	7.06	0.00
850.00	1.31	23.8	849.83	-9.44	-4.46	6.71	0.00
875.00	1.31	23.8	874.82	-8.91	-4.23	6.35	0.00
900.00	1.31	23.8	899.82	-8.39	-4.00	6.00	0.00
925.00	1.31	23.8	924.81	-7.87	-3.77	5.64	0.00
950.00	1.31	23.8	949.80	-7.34	-3.54	5.28	0.00
975.00	1.31	23.8	974.80	-6.82	-3.31	4.93	0.00
1000.00	1.31	23.8	999.79	-6.30	-3.07	4.57	0.00
1025.00	1.31	23.8	1024.78	-5.78	-2.84	4.22	0.00
1050.00	1.31	23.8	1049.78	-5.25	-2.61	3.86	0.00
1075.00	1.31	23.8	1074.77	-4.73	-2.38	3.51	0.00
1100.00	1.31	23.8	1099.76	-4.21	-2.15	3.15	0.00
1125.00	1.31	23.8	1124.76	-3.68	-1.92	2.79	0.00
1150.00	1.31	23.8	1149.75	-3.16	-1.69	2.44	0.00
1175.00	1.31	23.8	1174.74	-2.64	-1.46	2.08	0.00
1200.00	1.31	23.8	1199.74	-2.11	-1.23	1.73	0.00
1225.00	1.31	23.8	1224.73	-1.59	-1.00	1.37	0.00
1250.00	1.31	23.8	1249.72	-1.07	-0.77	1.02	0.00
1275.00	1.31	23.8	1274.72	-0.55	-0.54	0.66	0.00
1300.00	0.56	23.8	1299.71	-0.17	-0.38	0.41	3.00
1318.67	0.00	0.0	1318.38	-0.09	-0.34	0.35	3.00

THE DOGLES SEVERITY IS IN DEGREES PER 100 FEET  
 THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 255.29

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
 DISPLACEMENT IS .35 FEET, IN THE DIRECTION OF AZ. 255.29  
 MOTOR INTERVALS 650 TO 750  
 1250 TO 1294  
 CORING INTERVAL CALCULATED W/ Ø DOG LEG SEVERITY

COLE DIRECTIONAL SYSTEMS  
 PROPOSAL FOR CORRECTION RUN  
 CORING W/ DEVIATION TO NE  
 CORRECTION RUN TO VERTICAL @ CENTRE LINE

CURRAGH RESOURCES INC.  
 900Y-0A-DS-PROP W/ .20L NORTH TF

CRF100  
 29-AUG-90

MEASURED DEPTH	INCL. DEG	AZIMUTH DEG	STATION TVD	CO-ORDINATES NORTH	EAST	VERTICAL SECTION	DOG LEG
637.00	1.45	203.0	636.87	-10.94	-5.12	10.51	0.00
640.00	1.45	203.0	639.87	-11.01	-5.15	10.57	0.00
658.00	1.45	203.0	657.86	-11.43	-5.33	10.96	0.00
660.00	1.39	203.0	659.86	-11.47	-5.35	11.01	2.97
680.00	0.79	203.0	679.86	-11.82	-5.51	11.33	3.00
700.00	0.19	203.0	699.86	-11.98	-5.58	11.48	3.00
720.00	0.41	23.0	719.86	-11.94	-5.56	11.45	3.00
730.00	0.71	23.0	729.86	-11.85	-5.52	11.36	3.00
740.00	1.01	23.0	739.86	-11.71	-5.46	11.23	3.00
750.00	1.31	23.0	749.85	-11.53	-5.38	11.06	3.00
760.00	1.33	23.0	759.85	-11.32	-5.29	10.86	0.20
780.00	1.37	23.0	779.85	-10.89	-5.10	10.46	0.20
800.00	1.41	23.0	799.84	-10.44	-4.90	10.04	0.20
820.00	1.45	23.0	819.83	-9.99	-4.70	9.61	0.20
840.00	1.49	23.0	839.83	-9.52	-4.49	9.17	0.20
860.00	1.53	23.0	859.82	-9.03	-4.28	8.72	0.20
880.00	1.57	23.0	879.81	-8.54	-4.06	8.25	0.20
900.00	1.61	23.0	899.81	-8.03	-3.84	7.78	0.20
920.00	1.65	23.0	919.80	-7.51	-3.61	7.29	0.20
940.00	1.69	23.0	939.79	-6.98	-3.37	6.79	0.20
960.00	1.73	23.0	959.78	-6.43	-3.13	6.28	0.20
980.00	1.77	23.0	979.77	-5.87	-2.89	5.75	0.20
1000.00	1.81	23.0	999.76	-5.30	-2.64	5.22	0.20
1020.00	1.85	23.0	1019.75	-4.72	-2.38	4.67	0.20
1040.00	1.89	23.0	1039.74	-4.12	-2.11	4.11	0.20
1060.00	1.93	23.0	1059.73	-3.51	-1.85	3.54	0.20
1080.00	1.97	23.0	1079.72	-2.89	-1.57	2.95	0.20
1100.00	2.01	23.0	1099.71	-2.25	-1.29	2.36	0.20
1120.00	2.05	23.0	1119.69	-1.60	-1.01	1.75	0.20
1125.00	2.06	23.0	1124.69	-1.44	-0.93	1.69	0.00
1140.00	1.61	23.0	1139.68	-1.00	-0.74	1.18	3.00
1160.00	1.01	23.0	1159.68	-0.50	-0.56	0.79	3.00
1180.00	0.41	23.0	1179.67	-0.35	-0.46	0.58	3.00
1193.67	0.00	0.0	1193.34	-0.31	-0.44	0.53	3.00

THE DOGLEG SEVERITY IS IN DEGREES PER 100 FEET  
 THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 234.64

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
 DISPLACEMENT IS .53 FEET, IN THE DIRECTION OF AZ. 234.64  
 MOTOR INTERVALS 660 TO 750  
 1125 TO 1194  
 CORING W/ .2 DOG LEG TO 023

**COLE DIRECTIONAL SYSTEMS**  
 PROPOSAL WITH CORRECTION RUN  
 CORING W/ DEVIATION @ RATE & DIRECTION AVERAGED FROM GYRO DATA  
 DEEPER CORRECTION RUN  
 CORING TO 3500 FEET W/ SAME DEVIATION

CURRAGH RESOURCES INC.  
 900Y-04-05-PROP W/ .2 DL SOUTH TF

CRF100  
 28-AUG-90

MEASURED DEPTH	INCL. DEG	AZIMUTH DEG	STATION TVD	CO-ORDINATES NORTH	EAST	VERTICAL SECTION	DOG LEG
637.00	1.45	203.8	636.87	-10.94	-5.12	11.83	0.00
658.00	1.45	203.8	657.86	-11.43	-5.33	12.35	0.00
700.00	0.19	203.8	699.86	-11.98	-5.58	12.94	3.00
730.00	0.71	23.8	729.86	-11.85	-5.52	12.81	3.00
750.00	1.31	23.8	749.85	-11.93	-5.38	12.46	3.00
773.00	2.00	23.8	772.84	-10.92	-5.11	11.81	3.00
800.00	1.95	23.8	799.83	-10.07	-4.74	10.91	0.19
900.00	1.75	23.8	899.78	-7.12	-3.44	7.77	0.20
1000.00	1.55	23.8	999.74	-4.49	-2.28	4.97	0.20
1100.00	1.35	23.8	1099.70	-2.18	-1.25	2.51	0.20
1200.00	1.15	23.8	1199.68	-0.20	-0.39	0.39	0.20
1300.00	0.95	23.8	1299.66	1.48	0.35	-1.39	0.20
1400.00	0.75	23.8	1399.65	2.83	0.95	-2.83	0.20
1500.00	0.55	23.8	1499.65	3.88	1.40	-3.93	0.20
1600.00	0.35	23.8	1599.64	4.57	1.71	-4.69	0.20
1700.00	0.15	23.8	1699.64	4.96	1.89	-5.11	0.20
1773.00	0.00	0.0	1772.64	5.05	1.93	-5.20	0.20
1800.00	0.05	203.8	1799.64	5.04	1.92	-5.19	0.19
1900.00	0.25	203.8	1899.64	4.79	1.81	-4.93	0.20
2000.00	0.45	203.8	1999.64	4.23	1.56	-4.32	0.20
2100.00	0.65	203.8	2099.63	3.34	1.17	-3.38	0.20
2200.00	0.85	203.8	2199.63	2.14	0.64	-2.10	0.20
2300.00	1.05	203.8	2299.61	0.61	-0.03	-0.47	0.20
2400.00	1.25	203.8	2399.59	-1.23	-0.84	1.49	0.20
2500.00	1.45	203.8	2499.56	-3.39	-1.79	3.79	0.20
2585.00	1.10	23.8	2584.56	-3.64	-1.90	4.05	3.00
2600.00	1.07	23.8	2599.56	-3.38	-1.79	3.78	0.19
2700.00	0.87	23.8	2699.54	-1.83	-1.11	2.13	0.20
2800.00	0.67	23.8	2799.53	-0.61	-0.57	0.83	0.20
2900.00	0.47	23.8	2899.53	0.29	-0.17	-0.13	0.20
3000.00	0.27	23.8	2999.52	0.88	0.09	-0.76	0.20
3100.00	0.07	23.8	3099.52	1.14	0.20	-1.04	0.20
3200.00	0.13	203.8	3199.52	1.09	0.18	-0.90	0.20
3300.00	0.33	203.8	3299.52	0.72	0.02	-0.50	0.20
3400.00	0.53	203.8	3399.52	0.02	-0.29	0.15	0.20
3500.00	0.73	203.8	3499.51	-0.99	-0.74	1.23	0.20

**COLE DIRECTIONAL SYSTEMS**  
PROPOSAL WITH CORRECTION RUN  
CORING W/ DEVIATION @ RATE & DIRECTION AVERAGED FROM GYRO DATA  
DEEPER CORRECTION RUN  
CORING TO 3500 FEET W/ SAME DEVIATION

CURRAGH RESOURCES INC.  
900V-04-DS-PROP W/ .2 DL SOUTH TF

CRF100  
20-AUG-90

THE DDDLES SEVERITY IS IN DEGREES PER 100 FEET  
THE VERTICAL SECTION WAS COMPUTED ALONG AZ. 216.81

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
DISPLACEMENT IS 1.23 FEET, IN THE DIRECTION OF AZ. 216.81  
MOTOR INTERVALS 658 TO 773  
2500 TO 2585  
CORING W/ DL .2 TO 203.78 AVERAGE