

## Sperry Drilling Services

### DIRECTIONAL SURVEY REPORT

Apache Energy Ltd.  
Dory-1  
Exploration  
Victoria  
Australia  
AU-FE-000610543  
RT - AHD = 21.50 m  
Water Depth = 517.25 m

<i>Measured Depth (metres)</i>	<i>Inclination (degrees)</i>	<i>Direction (degrees)</i>	<i>Vertical Depth (metres)</i>	<i>Latitude (metres)</i>	<i>Departure (metres)</i>	<i>Vertical Section (metres)</i>	<i>Dogleg (deg/30m)</i>
538.750	0.00	0.00	538.750	0.000 N	0.000 E	0.000	TIE-IN
613.930	1.24	346.95	613.924	0.793 N	0.184 W	-0.151	0.50
641.310	1.32	347.27	641.297	1.390 N	0.320 W	-0.266	0.09
729.080	1.27	349.67	729.045	3.337 N	0.718 W	-0.685	0.03
758.040	1.30	347.73	757.997	3.974 N	0.846 W	-0.824	0.05
815.760	1.05	343.05	815.705	5.117 N	1.138 W	-1.016	0.14
844.380	0.97	344.98	844.321	5.601 N	1.277 W	-1.084	0.09
901.690	0.83	347.84	901.624	6.471 N	1.489 W	-1.240	0.08
1016.720	0.47	350.84	1016.646	7.748 N	1.739 W	-1.525	0.09
1074.580	0.45	1.50	1074.505	8.210 N	1.771 W	-1.681	0.05
1132.150	0.26	336.38	1132.073	8.556 N	1.818 W	-1.778	0.13
1160.990	0.25	342.45	1160.913	8.678 N	1.864 W	-1.785	0.03
1189.790	0.28	339.34	1189.713	8.804 N	1.908 W	-1.795	0.03
1218.510	0.36	337.60	1218.432	8.952 N	1.966 W	-1.801	0.09
1247.270	0.31	352.14	1247.192	9.112 N	2.011 W	-1.824	0.10
1275.840	0.35	336.74	1275.761	9.269 N	2.056 W	-1.846	0.10
1333.430	0.45	337.84	1333.350	9.639 N	2.211 W	-1.854	0.05
1362.390	0.36	331.14	1362.309	9.824 N	2.298 W	-1.849	0.10
1391.370	0.38	337.89	1391.289	9.992 N	2.377 W	-1.843	0.05
1478.770	0.44	339.78	1478.687	10.570 N	2.600 W	-1.871	0.02
1507.710	0.41	345.24	1507.626	10.774 N	2.665 W	-1.894	0.05
1519.070	0.33	354.14	1518.985	10.847 N	2.679 W	-1.911	0.26
1555.750	0.62	13.67	1555.664	11.145 N	2.643 W	-2.064	0.27
1584.250	0.70	1.92	1584.162	11.469 N	2.601 W	-2.233	0.17
1612.640	0.68	350.69	1612.550	11.810 N	2.622 W	-2.350	0.15
1641.010	0.96	329.53	1640.917	12.180 N	2.769 W	-2.364	0.43
1669.490	1.05	321.20	1669.393	12.588 N	3.053 W	-2.269	0.18
1698.350	1.42	301.03	1698.246	12.978 N	3.525 W	-1.993	0.59
1727.220	1.69	294.67	1727.106	13.340 N	4.218 W	-1.505	0.33
1756.100	1.86	285.87	1755.972	13.646 N	5.055 W	-0.862	0.33
1785.360	1.99	276.46	1785.216	13.832 N	6.016 W	-0.057	0.35
1814.480	2.04	256.82	1814.318	13.771 N	7.025 W	0.891	0.71
1843.690	2.24	226.11	1843.508	13.256 N	7.944 W	1.940	1.18
1872.670	3.45	210.48	1872.453	12.112 N	8.794 W	3.179	1.47
1901.620	3.83	211.01	1901.344	10.532 N	9.735 W	4.676	0.40
1930.530	3.89	212.01	1930.188	8.871 N	10.753 W	6.276	0.09
1959.260	3.88	211.43	1958.852	7.215 N	11.777 W	7.879	0.04
1988.140	3.81	209.64	1987.667	5.547 N	12.761 W	9.451	0.14
2017.060	3.95	200.39	2016.521	3.779 N	13.583 W	10.915	0.66
2045.650	3.97	192.82	2045.043	1.891 N	14.145 W	12.190	0.55
2074.480	4.05	182.58	2073.803	0.099 S	14.413 W	13.235	0.75
2103.170	3.74	182.81	2102.427	2.045 S	14.504 W	14.101	0.33
2131.890	3.28	185.32	2131.093	3.798 S	14.626 W	14.918	0.50
2160.610	3.01	186.95	2159.770	5.365 S	14.794 W	15.702	0.30
2189.200	2.79	187.90	2188.323	6.801 S	14.980 W	16.451	0.24
2246.650	1.80	180.38	2245.726	9.090 S	15.179 W	17.553	0.54
2275.290	1.31	173.59	2274.356	9.864 S	15.145 W	17.834	0.55
2304.030	0.83	157.48	2303.091	10.382 S	15.029 W	17.936	0.59
2332.800	0.61	126.88	2331.858	10.665 S	14.828 W	17.865	0.45
2361.430	0.50	77.92	2360.487	10.730 S	14.585 W	17.669	0.49
2390.380	0.55	67.90	2389.436	10.652 S	14.333 W	17.407	0.11
2419.350	1.41	42.83	2418.402	10.338 S	13.962 W	16.941	0.97
2448.200	1.36	46.46	2447.243	9.842 S	13.472 W	16.293	0.10
2477.020	1.39	40.13	2476.055	9.340 S	12.999 W	15.658	0.16

2505.870	1.62	34.79	2504.895	8.738 S	12.542 W	14.997	0.28
2534.920	1.73	35.80	2533.932	8.045 S	12.051 W	14.269	0.12
2563.900	1.80	33.67	2562.899	7.312 S	11.543 W	13.509	0.10
2592.890	1.74	25.08	2591.875	6.536 S	11.105 W	12.796	0.28
2621.850	1.54	25.98	2620.823	5.787 S	10.748 W	12.168	0.21
2650.670	1.53	25.37	2649.633	5.092 S	10.414 W	11.583	0.02
2679.360	1.32	23.81	2678.314	4.445 S	10.117 W	11.051	0.22
2736.480	1.19	38.56	2735.420	3.380 S	9.482 W	-3.380	0.18
2765.320	1.50	54.76	2764.253	2.928 S	8.987 W	-2.928	0.51

**CALCULATION BASED ON MINIMUM CURVATURE METHOD**

**SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT  
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT**

**VERTICAL SECTION RELATIVE TO WELL HEAD  
VERTICAL SECTION IS COMPUTED ALONG A CLOSURE OF 251.95 DEGREES (GRID)  
A TOTAL CORRECTION OF 14.35 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.  
HORIZONTAL DISPLACEMENT(CLOSURE) AT 2765.320 METRES  
IS 9.451 METRES ALONG 251.95 DEGREES (GRID)**