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 * SCHLUMBERGER *
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GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD
 WELL : ROUNDHEAD #1
 FIELD : WILDCAT
 CCOUNTRY : AUSTRALIA
 REFERENCE: 569285

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LONG DEFINITIONS

- GLOBAL
- KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL
 - SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL
 - EKB - ELEVATION OF KELLY BUSHING
 - GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD
 - VELHYD - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE HYDROPHONE
 - VELSR - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE SRD
- MATRIX
- GUNELZ - SOURCE ELEVATION ABOVE SRD (ONE FOR THE WHOLE JOB; OR ONE PER SHOT)
 - GUNEWSZ - SOURCE DISTANCE FROM THE BOREHOLE AXIS IN EW DIRECTION (CF. GUNELZ)
 - GUNNSZ - SOURCE DISTANCE FROM THE BOREHOLE AXIS IN NS DIRECTION (CF. GUNELZ)
 - HYDELZ - HYDROPHONE ELEVATION ABOVE SRD (CF. GUNELZ)
 - HYDEWSZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN EW DIRECTION (CF GUNELZ)
 - HYDNSZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN NS DIRECTION (CF GUNELZ)
 - TRTHYD - TRAVEL TIME FROM THE HYDROPHONE TO THE SOURCE
 - TRTSRD - TRAVEL TIME FROM THE SOURCE TO THE SRD
 - DEWVEL - DEVIATED WELL DATA PER SHOT : MEAS. DEPTH, VERT. DEPTH, EW, NS
- SAMPLED
- SHOT.GSH - SHOT NUMBER
 - DKB.GSH - MEASURED DEPTH FROM KELLY-BUSHING
 - DSRD.GSH - DEPTH FROM SRD
 - DGL.GSH - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)
 - TIND.GSH - MEASURED TRAVEL TIME FROM HYDROPHONE TO GEOPHONE
 - TIMV.GSH - VERTICAL TRAVEL TIME FROM THE SOURCE TO THE GEOPHONE
 - SHM.GSH - SHOT TIME (WST)
 - AVGV.GSH - AVERAGE SEISMIC VELOCITY
 - DELZ.GSH - DEPTH INTERVAL BETWEEN SUCCESSIVE SHOTS
 - DELT.GSH - TRAVEL TIME INTERVAL BETWEEN SUCCESSIVE SHOTS
 - INTV.GSH - INTERNAL VELOCITY, AVERAGE

(GLOBAL PARAMETERS)	(VALUE)
ELEV OF KB AB. MSL (WST)	KB : 21.0000 M
ELEV OF SRD AB. MSL(WST)	SRD : 0 M
ELEVATION OF KELLY BUSHI	EKB : 21.0000 M
ELEV OF GL AB. SRD(WST)	GL : -60.0000 M
VEL SOURCE-HYDRO(WST)	VELHYD : 1420.00 M/S
VEL SOURCE-SRD (WST)	VELSR : 1420.00 M/S

(MATRIX PARAMETERS)

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SOURCE ELV	SOURCE EW	SOURCE NS	HYDRO ELEV	HYDRO EW	HYDRO NS
M	M	M	M	M	M
1 -9.70		39.60	-9.70		39.60

TRT HYD-SC	TRT SC-SRD
MS	MS
1 0	6.15

MD @ KB	VD @ KB	VD @ SRD	E-W COORD	N-S COORD
M	M	M	M	M
1 81.00	81.00	60.00	0	0
2 225.00	225.00	204.00	0	0
3 825.00	825.00	804.00	0	0
4 1000.00	1000.00	979.00	0	0
5 1200.00	1200.00	1179.00	0	0
6 1400.00	1400.00	1379.00	0	0
7 1518.00	1518.00	1497.00	0	0
8 1614.00	1614.00	1593.00	0	0
9 1800.00	1800.00	1779.00	0	0
10 2034.00	2034.00	2013.00	0	0
11 2200.00	2200.00	2179.00	0	0
12 2376.00	2376.00	2355.00	0	0
13 2483.00	2483.00	2462.00	0	0
14 2594.00	2594.00	2573.00	0	0
15 2620.00	2620.00	2599.00	0	0
16 2678.00	2678.00	2657.00	0	0
17 2728.00	2728.00	2707.00	0	0
18 2792.00	2792.00	2771.00	0	0
19 2846.00	2846.00	2825.00	0	0
20 2959.00	2959.00	2938.00	0	0
21 3010.00	3010.00	2989.00	0	0

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LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/ GEO MS	VERTIC TRAVEL TIME SRC/ GEO MS	VERTIC TRAVEL TIME SRD/ GEO MS	AVERAGE VELOC SRD/ GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
1	81.00	60.00	0	43.57	34.39	40.54	1480			
2	225.00	204.00	144.00	103.00	105.84	111.99	1822	144.00	71.45	2015
3	825.00	804.00	744.00	345.95	345.42	351.57	2287	600.00	239.53	2504
4	1000.00	979.00	919.00	404.38	404.04	410.19	2387	175.00	58.62	2935
5	1200.00	1179.00	1119.00	465.94	465.67	471.82	2499	200.00	61.63	3245
6	1400.00	1379.00	1319.00	519.00	518.73	524.93	2627	200.00	53.11	3766
7	1518.00	1497.00	1437.00	550.00	549.81	555.95	2693	118.00	31.02	3804
8	1614.00	1593.00	1533.00	575.07	574.89	581.04	2742	96.00	25.09	3827
9	1800.00	1779.00	1719.00	636.00	635.84	641.99	2771	186.00	60.95	3052
10	2034.00	2013.00	1953.00	719.72	719.58	725.73	2774	234.00	83.74	2794
11	2200.00	2179.00	2119.00	776.00	775.87	782.02	2786	166.00	56.29	2949
12	2376.00	2355.00	2295.00	833.00	832.83	839.03	2807	176.00	57.01	3087
13	2483.00	2462.00	2402.00	860.43	860.32	866.47	2841	107.00	27.44	3900
14	2594.00	2573.00	2513.00	888.30	888.19	894.34	2877	111.00	27.83	3982
15	2620.00	2599.00	2539.00	895.50	895.40	901.54	2883	26.00	7.20	3611
16	2678.00	2657.00	2597.00	911.14	911.14	917.29	2907	58.00	15.74	3684
17	2728.00	2707.00	2647.00	923.23	923.13	929.28	2913	50.00	11.99	4159
18	2792.00	2771.00	2711.00	939.26	939.16	945.31	2931	64.00	16.03	3992
19	2846.00	2825.00	2765.00	952.40	952.31	958.45	2947	54.00	13.14	4109
20	2959.00	2938.00	2878.00	981.50	981.41	987.56	2975	113.00	29.10	3833
21	3010.00	2989.00	2929.00	994.60	994.51	1000.66	2987	51.00	13.10	3893