

ANALYST: Z.KATELIS

4-JUN-90 10:18:29

PROGRAM: GSHOT 007.E08

DEPT. NAT. RES & ENV



PE905424

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GEOPHYSICAL AIRGUN REPORT

COMPANY : BHP PETROLEUM  
WELL : AMBERJACK #1  
FIELD : WILDCAT  
COUNTRY : AUSTRALIA  
REFERENCE: SYJ-56592

## LONG DEFINITIONS

## GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL  
 SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL  
 EKE - ELEVATION OF KELLY BUSHING  
 GL - ELEVATION OF USERS REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD  
 VELHYD - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE HYDROPHONE  
 VELSUR - 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)  
 GUNEWZ - 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)  
 HYDEWZ - HYDROPHONE DISTANCE FROM THE BOREHOLE AXIS IN EW DIRECTION (CF. GUNELZ)  
 HYDNSZ - HYDROPHONE DISTANCE FROM THE BOREHOLE AXIS IN NS DIRECTION (CF. GUNELZ)  
 TRTHYD - TRAVEL TIME FROM THE HYDROPHONE TO THE SOURCE  
 TRTSRD - TRAVEL TIME FROM THE SOURCE TO THE SRD  
 DEWEL - DEVIATED WELL DATA PER SHOT : MEAS. DEPTH, VERT. DEPTH, EW, NS

## SAMPLED

SHOT.GSH - SHOT NUMBER  
 DKE.GSH - MEASURED DEPTH FROM KELLY-BUSHING  
 DSRD.GSH - DEPTH FROM SRD  
 DGL.GSH - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USERS REFERENCE)  
 TIMO.GSH - MEASURED TRAVEL TIME FROM HYDROPHONE TO GEOPHONE  
 TIMV.GSH - VERTICAL TRAVEL TIME FROM THE SOURCE TO THE GEOPHONE  
 SHTM.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	:	-37.0000	M
VEL SOURCE-HYDRO (WST)	VELHYD	:	1480.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	:	1480.00	M/S

## (MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-4.00	0	40.00	-9.00	0	40.00

	TRT HYD-SC MS	TRT SC-SRD MS
1	3.38	2.70

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	58.00	58.00	37.00	0	0
2	120.00	120.00	99.00	0	0
3	203.00	203.00	182.00	0	0
4	300.00	300.00	279.00	0	0
5	398.00	398.00	377.00	0	0
6	463.00	463.00	442.00	0	0
7	547.00	547.00	526.00	0	0
8	627.00	627.00	606.00	0	0
9	706.00	706.00	685.00	0	0
10	797.00	797.00	776.00	0	0
11	904.00	904.00	883.00	0	0
12	1011.00	1011.00	990.00	0	0
13	1076.00	1076.00	1055.00	0	0
14	1160.00	1160.00	1139.00	0	0
15	1216.00	1216.00	1195.00	0	0
16	1269.50	1269.50	1248.50	0	0
17	1340.00	1340.00	1319.00	0	0
18	1407.00	1407.00	1386.00	0	0
19	1474.00	1474.00	1453.00	0	0
20	1542.00	1542.00	1521.00	0	0
21	1640.00	1640.00	1619.00	0	0
22	1727.00	1727.00	1706.00	0	0

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	58.00	37.00	0	31.66	22.30	25.00	1480			
2	120.00	99.00	62.00	58.10	56.66	59.36	1668	62.00	34.36	1804
3	203.00	182.00	145.00	99.50	100.38	103.08	1766	83.00	43.71	1899
4	300.00	279.00	242.00	143.60	145.45	148.15	1883	97.00	45.07	2152
5	398.00	377.00	340.00	182.70	185.02	187.72	2008	98.00	39.57	2477
6	463.00	442.00	405.00	211.20	213.69	216.39	2043	65.00	28.67	2267
7	547.00	526.00	489.00	244.70	247.35	250.06	2104	84.00	33.66	2495
8	627.00	606.00	569.00	276.60	279.36	282.07	2148	80.00	32.01	2499
9	706.00	685.00	648.00	307.70	310.54	313.25	2187	79.00	31.18	2534
10	797.00	776.00	739.00	338.20	341.12	343.82	2257	91.00	30.58	2976
11	904.00	883.00	846.00	372.50	375.49	378.19	2335	107.00	34.37	3113
12	1011.00	990.00	953.00	410.60	413.64	416.34	2378	107.00	38.15	2805
13	1076.00	1055.00	1018.00	434.30	437.36	440.06	2397	65.00	23.72	2740
14	1160.00	1139.00	1102.00	466.60	469.69	472.39	2411	84.00	32.33	2599
15	1216.00	1195.00	1158.00	490.40	493.50	496.20	2408	56.00	23.81	2352
16	1269.50	1248.50	1211.50	509.70	512.81	515.52	2422	53.50	19.31	2770
17	1340.00	1319.00	1282.00	534.30	537.43	540.13	2442	70.50	24.62	2864
18	1407.00	1386.00	1349.00	557.60	560.74	563.45	2460	67.00	23.31	2874
19	1474.00	1453.00	1416.00	580.40	583.56	586.26	2478	67.00	22.81	2937
20	1542.00	1521.00	1484.00	602.20	605.37	608.07	2501	68.00	21.81	3118
21	1640.00	1619.00	1582.00	633.00	636.18	638.89	2534	98.00	30.82	3180
22	1727.00	1706.00	1669.00	656.38	659.58	662.28	2576	87.00	23.39	3719