SHOT HOLE INFORMATION, ELEVATION, DISTANCE & DIRECTION FROM WELL

N.	Elev.	Dist.	S.	Elev.	Dist.
F	101'	1000'	C	101'	1000'
G	100'	1000'	D	102'	1000'
H	100'	1000'			

COMPANY: ALLIANCE OIL DEVELOPMENT OF AUSTRALIA N.L.

WELL: CAROLINE No. 1

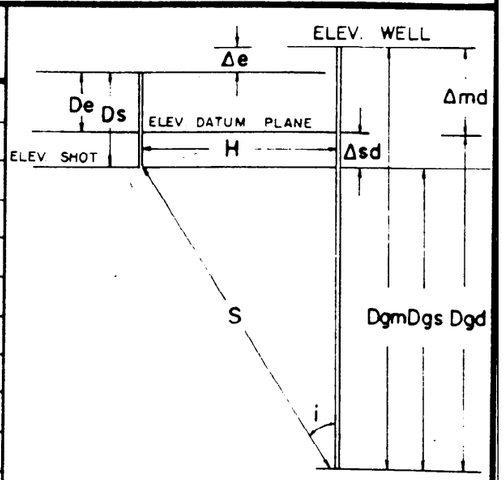
ELEVATION DERRICK FLOOR: K.B. 124' GR. 107

TOTAL DEPTH: 11050'

LOCATION — COORDINATES — SECTION, TOWNSHIP, RANGE — COUNTY — AREA OR FIELD: O.E.L. 22, SOUTH AUSTRALIA

RECORD NUMBER	SHOT-HOLE NUMBER	Dgm	Ds	Tuh	Thc	T READING	T S.P. SEIS.	T GRADE	Dgs	H	Tan i	Cos i	Tgs	Tec	t	Tgd	Tgd AVERAGE	Dgd	Δ Dgd	Δ Tgd	Vi INTERVAL VELOCITY	Va AVERAGE VELOCITY
E	G	7100	60	.018		.7340		G	7016	1000	.14253	.98998	.7266	+.010		.7366		7076	1091	.0845	12911	
D	D	7100	56	.018?		.7250		G	7022	1000	.14241	.99002	.7178	+.009		.7268	.7317	7076				9671
D	H	8080	61	.018		.8060		G	7995	1000	.12508	.99225	.7998	+.010		.8098		8056	980	.0733	13370	
D	C	8080	50	.010		.7985		G	8007	1000	.12489	.99229	.7923	+.008		.8003	.8050	8056				10007
C	F	8580	58	.026		.8435		G	8499	1000	.11766	.99313	.8377	+.010		.8477		8556	500	.385	12987	
E	C	8580	26	.008		.8410		?	8531	1000	.11722	.99320	.8353	+.004		.8393	.8435	8556				10143
F	G	8870	70	.022		.8640		F	8776	1000	.11395	.99357	.8584	+.012		.8704		8846	290	.230	12609	
F	C	8870	49	.011		.8600		F	8799	1000	.11366	.99360	.8545	+.008		.8625	.8665	8846				10209
E	H	9500	60	.021		.9135		F	9416	1000	.10620	.99439	.9084	+.010		.9184		9476	630	.0470	13404	
G	C	9500	48	.011		.9055		?	9429	1000	.10606	.99443	.9005	+.008		.9085	.9135	9476				10373
D	F	10850	62	.025		1.0055		F	10765	1000	.09289	.99571	1.0012	+.010		1.0112		10826	1350	.0957	14107	
H	C	10850	47	.010		1.0035		P	10780	1000	.09276	.99572	.9992	+.008		1.0072	1.0092	10826				10727
G	G	11050	70	.027		1.0225		P	11000	1000	.09091	.99588	1.0183	+.012		1.0303		11026	200	.0132	15152	
J	C	11050	47	.009		1.0105		?	10980	1000	.09075	.99591	1.0064	+.008		1.0144	1.0224	11026				10768

DEPT. NAT. RES & ENV
PE904318



Dgm GEOPHONE DEPTH MEASURED FROM WELL ELEV.
Dgs GEOPHONE DEPTH MEASURED FROM WELL SHOT
Dgd GEOPHONE DEPTH MEASURED FROM WELL DATUM
Ds DEPTH OF REFERENCE SHOT
De SHOTHOLE ELEVATION TO DATUM PLANE
H HORIZONTAL DISTANCE FROM WELL TO S P
S.P. SEIS = UPHOLE TIME FOR GIVEN SHOT
Tuh UPHOLE TIME FOR REFERENCE SHOT
T OBSERVED TIME FROM S P TO WELL GEOPHONE
Δe DIFFERENCE IN ELEVATION BTWN WELL & S P
Δsd DIFFERENCE IN ELEVATION BTWN SHOT & DATUM PLANE
Δsd Ds - De
Dgs Dgm - Ds ± Δe; Tan i = $\frac{H}{Dgs}$
Tgs Cos i T = VERTICAL TRAVEL TIME FROM SHOT POINT ELEVATION TO GEOPHONE
Tgd Tgs ± $\frac{\Delta sd}{V}$ = VERTICAL TRAVEL TIME FROM DATUM PLANE TO GEOPHONE
Dgd Dgm - Δmd
Vi INTERVAL VELOCITY = $\frac{\Delta Dgd}{\Delta Tgd}$
Va AVERAGE VELOCITY = $\frac{Dgd}{Tgd}$
Thc CORRECTION TO SHOT REFFERENCE POSITION
Tec CORRECTION TO DATUM PLANE
t TOTAL CORRECTION TIME

ELEV. DATUM PLANE: +100'
DATUM CORRECTION VELOCITY: 6000'/s

SURVEYED BY: namco GEOPHYSICAL CO.

DATE: 30 JANUARY, 1967.

WELL VELOCITY CALCULATION FORM