DETAILED ACCOUNTING OF BAD FILES

TIB-1 AND 2

FILE #	PROBLEM	RESOLUTION
310	44 kg misfire and cannot demux	
313	cannot demux	
341	44 kg misfire	
344	not on tape	
345	misfire (K.D. Nelson)	
360	4 out of 6 misfire	
376	40 kg misfire?	
388	46 kg misfire	
403	repeat location of 402	- OK (reference 402)
480	~~46 kg~~ OK	
507	~~46 kg~~ OK	
533	34 kg misfire	
519	severe cross-feed	
521	severe cross-feed	
531	severe cross-feed	
543	severe cross-feed	
298	repeat location of 299	N (reference 403)
280	misfire (K.D. Nelson)	
227	30 second record + cannot demux	
215	25 kg misfire	
213	45 second record + cannot demux	
177	24 kg misfire	
176	20 kg misfire	
170	severe cross-feed	
169	severe cross-feed	
167	severe cross-feed	
164	cannot demux	
114	~~46 kg~~ OK	
113	~~46 kg~~ OK	

19 bad + (2 of 6) bad = 21 − 1 = 20 bad

AGREED 64 shots Left e/e/e... before ... [illegible]

P = 5
OK = 7

008

	DATE	TOTAL FILES	OK FILES	BIG SHOTS	TOTAL OK kg	WIND STRIPS	BAD FILES	CROSS-TALK	SHORT RECORDS	MISSFIRES/<50kg	FILES UNREADABLE	NOTES/RESOLUTION
)-281	7/22	2	1	1	200	1	0					
)-298	7/23	3	1	1	150	1	1			299(150kg) 298(same as 299)		
)-283	7/24	16	14	1	850	2	0					
2-266	7/25	17	15	0	750	1	1			280(KDNOIL)		
:-249	7/27	17	16	1	850	1	0			263(100 of 200kg)		No Shots 7/26
-234	7/28	15	14	0	700	1	0					
5-215	7/29	19	15	1	900	2	2		227(30s)	225(25kg)	227	
-198	7/31	17	15	1	900	1	1		213(195s)		213	No Shots 7/30
- 181	8/1	17	15	0	750	2	0					
)-172	8/2	9	5	0	250	2	2			177(24kg), 176(20kg)		
-167	8/5	5	0	1	0	2	3	170, 169, 167				
-134	8/6	33	29	1	1600	3	1				164	
					7,900 = 158 50kg shots							158 + 251 = 409 ⇒ 91 to go
5-112	8/7	22	18	0	900	2	2			114(48kg), 113(48kg)		8,800 + 12,550 = 21,350 = 427 50kg
		192	158	8	8,800	21	13					
		+281	+290	+ 4	42,550	+ 25	+ 16					
		473	398	12	21,350	46	29					

007

	DATE	TOTAL FILES	OK FILES	BIG SHOTS	TOTAL OK kg	WIND STRIPS	BAD FILES	CROSS-TALK	SHORT RECORDS	MISSFIRES/<50kg	FILES UNREADABLE	NOTES/RESOLUTION
1-302	6/21	2	2	0	1 00	0	0					
3-307	6/22	5	5	0	2 50	0	0					
8-309	6/23	2	2	0	1 00	0	0					
)-315	6/24	6	4	0	2 00	0	2			310 (44kg)	310 , 313	
5-317	6/25	2	2	0	1 00	0	0					
5-324	6/26	7	7	0	3 50	0	0					
5-332	6/27	8	8	0	400	0	0					
3-338	6/28	6	6	0	300	0	0					
1-354 (#1-10339)	6/29	16	13	0	6 50	0	3			341(44kg), 345	344	
5-357	6/30	5	5	0	2 50	0	0			10344(only 50 of 100)		
8-362	7/1	5	3	0	1 50	1	1			360(4 of 6 misfire)		
3-374	7/2	12	10	0	5 00	2	0					
5-381	7/3	7	4	0	2 00	2	1			376(90kg)		
2-400	7/4	19	16	0	8 00	2	1			388(46kg)		
-414	7/5	14	11	1	6 50	2	1			402(150kg), 403(50kg recruit tornado)		
-419	7/8	5	4	0	2 00	1	0					No Shots 7/6, 7/7
-439	7/10	20	18	0	9 00	2	0					No Shots 7/9
-461	7/11	22	20	0	1 0 0 0	2	0					
-484	7/12	23	20	0	10 00	2	1			480(48kg)		
5-496	7/13	12	10	1	6 50	2	0					
-514	7/14	18	16	1	9 50	1	1			507(48kg)		
-534	7/15	20	15	0	7 50	1	14	519, 521, 531		533(34kg)		516-534 also X-talk
-543	7/16	9	7	0	3 50	1	1	540				536-543 also X-talk
4-557	7/18	14	12	0	6 00	2	0					No Shots 7/17 545-556 also X-talk
-577	7/19	20	19	0	9 50	1	0					559-572 also X-talk
-579	7/21	2	1	1	2 00	1	0					No Shots 7/20 SUB-TOTN 12,550 kg = 251 shot
		-	-		12,5 50	= 251						

SHOTS REMAINING TO 500

Cumulative Shots	Shots Remaining	Shots this Day (50kg equiv)	DATE	
By Agreement 436	64	.	8/8/92	In many
439	61	3	8/8	
447	53	8	8/9	
461	39	14	8/10	
480	20	19	8/11	(1 shot w/ parity error)
485	15	5	8/12	
502	-2	17	8/13	

MAINLINE tie to X-line at MAINLINE @ #707
(COP 1414)

CROSSLINE tie to Mainline at CROSSLINE @ #110
(COP 220)

SUPPLEMENTARY DATA

REQUIRED BEFORE PAYMENT

1. Photocopies of Observer Sheets
2. Photocopies of Surveyor's Notes
3. Shallow Refraction Recordings and Supporting Documentation
4. Map with Corner Points Plotted and Stations Numbered
5. Sample Camera Monitor (120 channels, 50 seconds)
   Such as FFID = 149 and FFID = 144 and FFID = 147
6. List of Shot Holes As a Function of Drilling Crew

30km Sail
30 000 m
500 m
Start at 1000

35db

TIB-1

7/7/95 ALK

50 kg = 10 m

Tape 6/16/92

Geophone interval = 50m

shotpoint location 74050

offset 300 m

✓ File # 2 (FFID = 2)

2 holes < 27m / 24m } 50 kg

uphole time 17.8 ms

8 MHz low-cut

? preamp

50 Hz Notch filter out

✓ File #3 (FFID = 3)

SP location = 74100

offset 350 m

31m hole 50 kg

uphole = 18.2 ms

Tape Density 1600 bpi

SEG B

reflections evident:
285
335
maybe 395

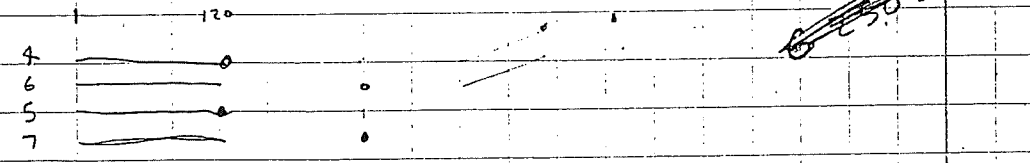
172

Tape 6/20/92

Geophone Spacing = 25m potted geophones

✓ File #4 SP = 50800 hole 1.5m 2kg uphole = 26.8 ms

offset = 25m



172

✓ File #5 SP = 50800 2 holes @ 3m 2x4 kg uphole = 23.3 ms

offset = 25m

✓ File #6 SP = 53800

offset = 3025m 1.5m hole 2kg uphole 0 ms

✓ File #7 SP = 53900

offset = 3075m 2 holes @ 3m 2x4 kg uphole = 11.9 ms

END

File #7 Trace 120 is repeat of 119 (120 was lost on demux)

173

6/21/92 (1st Day of Production

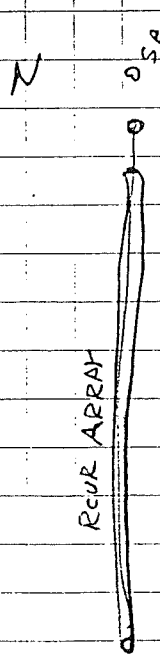
TAPE SP 301 + 302

SP 301 at Station 56400 (1129) Recvrs 56200 - 50250 (6)
SP 302 at station 56600 (1133) Recvrs 56400 - 50450 (10) ?

offset = 200 m
shots 20m ⊥ to line
group interval 50 m

		HOLES				
✓ 301	~~Uphole~~	H1	H2	H3	H4	H5
	uphole					7.1 ms
	depth	10m	8m	7.5m	6m	10m
	total charge 50 kg					
✓ 302	~~uphole~~					
	depth	7m	7m	9m	10m	10m
	total charge 50 kg					6.2 ms

Spread Length = 5950



301 - 1st time detachment seen - at 10sec TGH

6/22/92 = 174 OFFSET ALL = 200m Record = 50 sec @ 4ms

	FILE NO.	uphole	SP LOC	1ST RCVR	LAST RCVR	HOLE DEPTH	Kg CHARGE	TOTAL C
✓	303'	6.1	56800 (1137)	50650 (1013)	56600	2×17m	25+25	
✓	304'	16.1	56900 (1139)	50750 (1015)	56700	28m	50	
✓	305'	0	57000 (1141)	50850 (1017)	56800	30+15	50+4	
✓	306'	10.5	57100 (1143)	50950 (1019)	56900	21+20	25+25	
✓	307'	10.0	57200 (1145)	51050 (1021)	57000	19+19	25+25	

6/23/92 =175 OFFSET ALL = 200m Record: 50s @ 4ms

	FFID	uphole	SPloc	1stRcvr	LastRcvr	Hole(m)	Charge(kg)
✓	308'		57800 (1157)	51650 (1034)	~~57800~~ 57600 ~~753~~	30	50
✓	309'		5800 (1161)	51850 (1038)	~~57600~~ 57800 ~~759~~	26+13	32+18

308 + 309 Boomer 10 sec reflection TGH

V X 003

6/24/92 = 176 OFFSET NLL = 200m Record = 50s @ 4ms

	FFID	uphole	ShotTime	SPloc	1stRCVR	LastRCVR	Hole(m)	charge(kg)	
Tape 6M	310	8.0	17:21:55	58200 (1165)	52050 (1042)	58000	5x6m+9m	44	← MISSING
✓	311	11.3	17:49:37	58400 (1169)	52250 (1046)	58200	4x8m+10	23+18	very bad
✓	312	16.7	18:13:01	58600 (1173)	52450 (1050)	58400	13+2x10m	50	not bad
Tape 6A	313	11.3	20:18:25	58700 (1175)	52550 (1052)	58500	4x10m	50	← MISSING
✓	314	10.5	20:28:46	58800 (1177)	52650 (1054)	58600	2x18m	50	bad
✓	315	8.8	20:47:50	59300 (1187)	53150 (1164)	59100	2x10m+30	2x10+50	very good

tape 63 can't get FFID = (310) } 1st file on tape

tape 64 can't get FFID = (313) }

311 TOT

312

315 TGH ≈7 sec dipping structure

315, 316 TGH 47.1 sec very faint — Moho at 25sec

340 AVG

345

6/25/92 = 177 TAPE 64

	FFID	uphole	ShotTime	SPloc	1stRcvr	LastRcvr	Hole(m)	charge(kg)
✓	316 ✓	8.4		59600 (1193)	~~53450~~ 53470 ~	59400	(3x12)+(2x10)	50
✓	317 ✓	12.6		~~59800~~ (1197)	53650 ~ 1074	59600	40	50

316 TGH 47.1? Moho at 25 sec

6/26/92 =178 ALL MORNING SHOTS EXCEPT 324

TAPE GS

	FFID	SPLoc	1st Recv	Last Recv	Shot Time	Uphole Time	Hole (m)	Charge (kg)
✓	318	59900 (1199)	1076 / 53750	59700 / ~~59900~~	9:17.33	16.0	27	50
✓	319	6000 (1201)	1078 / 53850	59800 / ~~60000~~	9:28:03	14.9	33+4.3	50
✓	320	60200 (1205)	1082 / 54050	60000 / ~~60200~~	10:00:05	23.8	45	50
✓	321	60400 (1209)	1086 / 54250	60200 / ~~60400~~	10:16:40	0	47	50
✓	322	60600 (1213)	1090 / 54450	60400 / ~~60600~~	10:51:30	0	50	50

TAPE 66

✓	323	60800 (1217)	1094 / 54650	60600 / ~~60800~~	11:16:53	21.9	42	50
✓	324	6100 (1221)	1098 / 54850 ✓	60800 / ~~61000~~	14:47:35	10.1	11+12+14+15	50

TGH 318 10.3 s detachment 4.6 sec reflection

X − 200m

6/27/92 = 179

TAPE 66

	FFID	SPLoc	1st Recr	Last Recr	Shot Time	Uphole(ms)	Depth(m)	Charge(kg)
✓	325	61400 1229	55250 1106 → 55450	61200	12:47:43	11.8	34	50
✓	326	61600 1233	55450 1110 → 55650	61400	13:16:48	7.5	12+4×10	50
✓	327	61800 1237	55650 1114 → 55850	61600	13:38:30	11.1	14+15+18	50
	TAPE 67		1118					
✓	328	62000 1241	55850 1120 → 56050	61800	13:57:13	8.8	24+18	50
✓	329	62200 1245	56050 1122 → 56250	62000	14:12:47	25.1	50	50
✓	330	62400 1249	56250 1126 → 56450	62200	14:32:34	9.1	4×12	50
✓	331	62500 1251	56350 1128 → 56550	62300	14:51:34	20.9	35	50
✓	332	62900 1259	56750 1136 → 56950	62700	15:36:50	17.4	20+28	50

1ST — 180 6/28/92

	FFID	SP Loc	1st Recr	Last Recr	Shot Time	Uphole	Depth(m)	Charge(kg)
	TAPE 68							
✓	333	1263 63100	1140 56450	62900	15:15	20.0	43	50
✓	334	1265 63200	1142 57050	63000	10:46	23.3	45	50
✓	335	1269 63400	1146 57750	63200	11:28	19.8	50	50
✓	336	1272 63550	1149 57400	63350	11:46	21.7	45	50
✓	337	1277 63800	1154 57650	63600	12:49	10,5	2x15+20	50
	TAPE 69							
✓	338	1281 64000	1158 62850	63800	13:20	6.9	2x12+11	50

✓

6/29/92 = 181

340 } AVG
345

	FFID	SP loc	1st Recv	Last Recv	Shot Time	Uphole	Depth (m)	Charge (kg)	
	TAPE 69 cont'd								
✓	339 ✓	1263 64100	~~57950~~ 11:0 ~~57950~~ ~~57950~~	63900	9:6:55	7.4	4x10 + 18	50	
✓	340 ✓	1287 64300	58150 ~~58150~~ ~~58150~~	64100	9:28:16	13.4	10x7	50	
✓	341 ✓	1291 64500	58350 1178	64300	10:3:15	11.6	10x7 - only 8 of 10 fired	50-(2x)	
✓	342 ✓	1299 64900	1176 58750	64700	11:34:23	13.4	6x10	50	
	TAPE 70								
✓	343 ✓	1301 65000	58850 1178	64800	11:50:30	20.0	12x20	50	shows up 138 km away on shot 5
	~~344~~	~~65200~~	~~59050~~	65000			43		← 344 not on tape misfire
							these 2 shots are useless		
✓	345 ✓	1309 65400	1186 59250	65200			45	~~redo't set~~ one of the 50	← misfire reshot 344 as 1031 345 as 1034
✓	346 ✓	1313 65600	59450 1190	65400	12:58:35	16.1	20+25	?	
✓	347 ✓	1317 65800	59650 1194	65600	13:15:30	23.9	48	?	
✓	348 ✓	1321 66000	59850 1198	65800	13:19:10	23.6	46	?	
	TAPE 72								
✓	349 ✓	1325 66200	60050 1202	66000	15:20:15	18.2	?	50	
	-								
✓	350 ✓	1329 66400	1206 60250	66200	15:28:23	20.3	?	50	334 76-96
	-								
✓	351 ✓	1333 66600	1210 60450	66400	15:39:05	10.4	?	50	
	-								
✓	352 ✓	1337 66800	1214 60650	66600	16:02:34	12.2	?	50	
	-								
✓	353 ✓	1341 67000	1218 60850	66800	16:32:30	15.4	?	50	
	TAPE 73								
✓	354 ✓	1345 67200	1222 61050	67000	17:19:30	0	15+17+10	?	10 of 45 did not fire

6/30/92 Bug in Promax in which new files can't be written & index files opened

① mv /usr/promax/sys/exe/exec.exe /usr/promax/sys/exe/exec.exe.demux
mv /usr/promax/sys/exe/exec.exe.back /usr/promax/sys/exe/exec.exe

② demux job now includes alternate executive ⇒ /usr/promax/sys/exe/exec.exe.demux

TAPE 73 cont'd

	FFID	SP loc	1st Recr	Last Recr	Shot Time	Uphole	Depth (m)	charge (kg)
✓	355	67300 (1347)	61150 (1224)	67100	12:43	11.2	5x8	50
✓	356	67600 (1353)	61450 (1230)	67400	13:38	9.5	30	50
✓	357	67800 (1357)	61650 (1234)	67600	13:54	6.8	12+25	2x25

TAPE 71 (reshoot 344 as 10344 ; reshoot 345 as 10345

✓	10344	65200 (1305)	59050 (1182)	65000	11:35:25	8.4	43+25	50+50
✓	10345	65400 (1309)	59250 (1186)	65200	11:59	14.5	35	50

= reverse at 100km stk

TGH 356 8sec, 4sec, 10.5 sec

J X ± 200m

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7/1/92

	FFID	SPloc	1stRcvr	LastRcvr	ShotTime	Uphole	Depth	Charge	
	TAPE 73 cont'd								
100	358	68100 (1363)	62050 (1242)	68000	12:03	8.2	8x6	50	
	TAPE 74								
200	359 ✓	68100 (1363)	62050 (1240)	67900	12:21	14.0	5x6	50	
100	360 ✓	68200 (1365)	62150 (1244)	68100	13:02	10.0	6x10 (4 misfires?)	50 ?	
200	361 ✓	68400 (1369)	62250 (1246)	68200	13:52	0	5x8	50	
	362	initial trip	62250 (1246)	68200	14:30	N/A	N/A	50	} noise file

TOT = 360 (4 misfires out of 6)

372 @ 70200
56400
13800

^ - 100m

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	FFID	SP loc	1st Recr	Last Recr	Shot Time	Uphole	Depth(m)	Charge (kg)
	TAPE 75		1250 62450					
	363	noise	62650	68400	9:45	/	/	/
	364	1373 68600	1258 62450 62650	68400	10.8	0	5x5	50
	365	1377 68800	1254 62650 62850	68600	10:22	7.2	4x10+12	50
	366	1381 69000	1258 62850 63050	68800	10:41	0	4x14	50
	367	1385 69200	1262 63050 63250	69000	11:16	0	2x10+3x7	50
	TAPE 76							
J	368	1389 69400	1266 63250 63450	69200	11:37	10.6	6x8	50
J	369	1393 69600	63450 1270 63650	69400	13:47	11.4	4x11	50
J	370	1397 69800	63650 1274 63850	69600	14:08	8.1	6x8	50
J	371	1401 70000	63850 1278 64050	69800	14:25	10.0	7.5	50
J	372	1405 70200	64050 1282 64250	70000	14:40	10.1	5x5	50
	TAPE 77							
	373	1409 70400	64250 1286 64450	70200	15:46	9.1	5x8	50
	374	noise	1286 64250 64450	70200	16:19	/	/	/

7/3/92 185

FFID	SPloc	1stRecvr	LastRecvr	ShotTime	Uphole	Depth(m)	Charge(kg)	Iscott offset
TAPE 77 contd								
375	noise	64400 (1289)	70350	13:30	/	/	/	/
376 ✓	70550 (1412)	64400 (1289)	70350	14:25	9.1	2x3+4x6	40	E30
377 ✓ 6	71200 (1425)	65050 (1302)	71000	14:54	9.0	5x5	50	E20
TAPE 78								
378 ✓	71400 (1429)	65250 (1306)	71200	15:15	42.0	6x7	50	0
379 ✓	71600 (1433)	65450 (1310)	71400	15:35	14.0	5x6	50	E20
380 ✓	71800 (1437)	65650 (1314)	71600	15:57	17.0	5x8	50.	W20
381	noise	65650 (1314)	71600	16:56	/	/	/	/

Problems w/ Geom

① Errors if survey stations don't increment by 1 < error in STA
error in installation/load geom

② FFID numbers on file must be in same order as in geometry

③ new drawx promax version has lots of bugs: ex: < won't generate synthetics won't write some files out

④ /usr/indepth/indepth1 directory can't do geometry from - can from other directories — get "file probably initialized for output but never written" error

379 + 380 very different quality but similar source

GGH 373 v°
376 Sample of small shells

X

376 Noise

7A/92 186

	FFID	SP	1st Recvr	Last Recvr	Shot Time	Uphole	Depth (m)	Charge (kg)	Shot offset
	TAPE 79								
✓	382	NOISE	1316 65750	71700	12:30	/	✓	/	/ trackline?
/	38.3 ✓	1439 71950	1316 65750	71700	13:32	10.	4x5	50	E20
/	38.4 ✓	1441 72000	1318 65850	71800	13:57	10.0	3x7	50	0
/	38.5 ✓	1443 72100	1320 65950	71900	14:24	0	26	50	0
✓	386 ✓	1445 72200	1322 66050	72000	14:40	0	4x7.5+9	50	0
	TAPE 80								
/	387 ✓	1449 72400	1326 66250	72200	15:26	0	3x8+12	50	ES
/	388 ✓	1453 72600	1330 66450	72400	15:42	13.8	2x10+15+4	46	ES
/	389 ✓	1457 72800	1334 66650	72600	15:56	14.0	13+14+12+8.	50	ES
✓	390 ✓	1461 73000	1338 66850	72800	16:05	13.6	38	50	ES0
/	391 ✓	1465 73200	1342 67050	73000	16:20	16.8	50	50	ES
	TAPE 81								
/	392 ✓	1469 73400	1346 67250	73200	16:57	18.8	45	50	0
/	393 ✓	1473 73600	1350 67450	73400	17:10	23.0	46	50	0
✓	394 ✓	1477 73800	1354 67650	73600	17:21	20.5	50	50	0
/	395 ✓	1481 74000	1358 67850	73800	17:43	20.5	45	50	E100
/	396 ✓	1485 74200	1362 88050	74000	17:55	11.0	20+17	50	ES0
	TAPE 82								
✓	397 ✓	1489 74400	1366 68250	74200	18:08	9.4	2x21+15	50	0
✓	398 ✓	1493 74600	1370 68450	74400	18:20	13.1	45	50	0
✓	399 ✓	1497 74800	1374 68650	74600	18:32	13.3	35	50	E30
✓	400	NOISE	68850	74800	18:40	/	/	/	/

393 GGH
394
Both Deep Holes 393 >> 394

395 GG 6.5 ÷ 11

7/5/92 187

FFID	SP	1stRcvr	LastRcvr	ShotTime	Uphole	Depth	Charge	shotoffset
TAPE82								
401	NOISE	67600	73550	11:40	/	/	/	/
TAPE 83								
402	63600 (1273)	67600 (1353)	73550	13:31	24.6	3X50	150	0
403	63600 (1273)	67600 (1353)	73550	13:45	19.2	32	50	0
404	75000 (1501)	68850 1378	74800	15:02	12.3	3x10	50	E30 ← misfire
405	75200 (1505)	69050 1382	75000	15:19	7.5	3x12	50	W5 ←
406	75400 (1509)	69250 1386	75200	15:47	0	2x10+20+5	50	0
TAPE 84								
407	75600 (1513)	69450 1390	75400	16:04	7.9	3x14	50	E10
408	75800 (1517)	69650 1394	75600	16:20	6.1	2x18	50	0
409	76000 (1521)	69850 1398	75800	16:39	11.0	4x11	50	E10
410	76100 (1523)	69950 1400	75900	16:50	7.9	3x?	50	0
411	76400 (1529)	70250 1406	76200	17:20	11.8	?	50	E60
TAPE85								
412	76500 (1531)	70350 1408	76300	17:40	12.0	?	50	E60
413	76700 (1535)	70550 1412	76500	17:50	0	?	50	E60
414	NOISE	70550 1412	76500	17:55	/	/	/	/

From GPS

Shot point 63600 =

401 NOISE

402 GGU 1st BIG SHOT

403 Change in steps

404 Shallow [illegible]

7/8/95 190

FF.ID	SP	1st Recv	Last Recv	Shot Time	Uphole (ms)	Depth (m)	Charge (kg)	E-W offset
TAPE86								
415	NOISE	73900 1479	79850	17:10	/	/	/	~~0~~
416	73700 1475	73900 1479	79850	19:05	6.1	36	50	0
417	73800 1477	74000 1481	79950	19:18	27.5	45	50	0
418	73900 1479	74100 1483	80050	19:38	23.3	45	50	E30
419	74000 1481	74200 1485	80150	20:26	15.4	42	50	E40

LB 3011 8/4/92 GGH

418?, 419, 421 27sec

⇒ ↳ no GG#

BUT PUSH OR PULL WILL BE

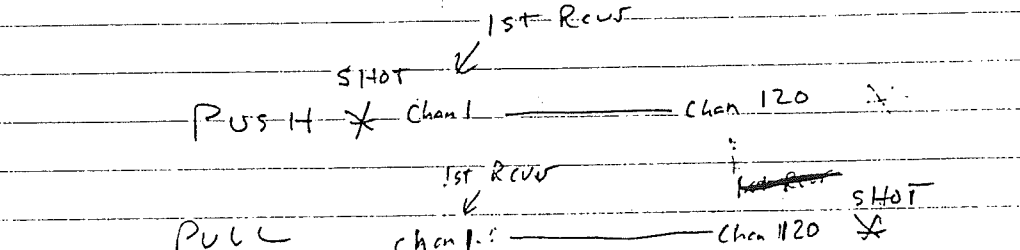
GEOLOGS SHEET
≠ CHECK 1ST RCVR

7/10/92 192

Push or Pull

FFID	SP	Sequential Shot ID	1st Recvr	Sequential 1st Recvr ID	Shot Time	Uphole (ms)	Depth (m)	Charge (kg)
TAPE 87 ↓ - PUSH — ↓								
420	NOISE	/	74300-80250	1487	13:06	/	/	/
✓ 421 ✓	74100	~~485~~ 1483	74300-80250	1487	13:10	13,6	36	50
✓ 422 ✓	74200	~~486~~ 1485	74400-80350	1489	13:20	7,9	15+14	50
✓ 423 ✓	74300	~~488~~ 1487	74500-80450	1491	13:30	9,7	11, 15, 2x12	50
✓ 424 ✓	74400	~~490~~ 1489	74600-80550	1493	13:39	16,6	30	50
TAPE 88 ~~74~~								
✓ 425 ✓	74500	~~492~~ 1491	74700-80650	1495	13:47	?	18+24	50
✓ 426 ✓	74600	~~497~~ 1493	74800-80750	1497	13:52	12.9	30	50
✓ 427 ✓	74700	~~495~~ 1495	74900-80850	1499	14:01	8,9	3x10	50
✓ 428 ✓	74800	~~498~~ 1497	7500-80950	1501	14:20	14,8	3x14	50
↓ — PULL — ↓					~~15:45~~	~~?~~	~~2x16~~	~~50~~
✓ 429	✓ 79400	1589	73250-79200	1466	15:45	?	2x15	50
TAPE 89								
430 ✓	79600	1593	73450-79400	1470	15:57	?	2x15+12	50
431 ✓	79800	1597	73450 ✓ -79400	1470	16:10	?	2x4+12+10	50
432 ✓	80000	1601	73850-79800	1478	16:56	?	20+2x18	50
433 ✓	80200	1605	74050-80000	1482	17:05	?	3x12	50
434 ✓	80500	1611	74350-80300	1488	17:22	?	5x4	50
TAPE 90								
✓ 435 ✓	80600	1613	74450-80100	1490	17:34	?	18+15	50
✓ 436 ✓	80800	1617	74650-80600	1494	17:53	?	8x4+7	50
✓ 437 ✓	81000	1621	74850-80800	1498	18:07	?	4x10	50
✓ 438 ✓	81200	1625	75050-81000	1502	18:21	?	4x?	50
439	NOISE	/	75050-81000	1502	18:27	/	/	/

~~✗~~ Channel 1 is always South end of spread
always 120 channels at 50m spacing = 5975m spread



GG+ 430 4+5 see back

7/11/92 193

FFID	SP	SSP	1stRcvr	S 1stRcvr	ShotTime	Uphole (ms)	Depth (m)	charge (kg)
TAPE 91								
440	NOISE	/	75250	1506	11:10	/	/	
441 ✓	81400	1629	75250	1506	11:24	0	3x13	50
442 ✓	81500	1631	75350	1508	11:37	11.9	3x11	50
443 ✓	81850	1638	75700	1515	12:05	12.8	5x12	50
444 ✓	82000	1641	75850	1518	12:42	12.0	5x10	50
TAPE 92								
445 ✓	82300	1647	76150	1524	13:19	9.9	4x12	50
446 ✓	82500	1651	76350	1528	14:32	12.9	3x9+4+12	50
447 ✓	83300	1667	77150	1544	18:17	27.6	52	50
448 ✓	83400	1669	77250	1546	18:20	27.3	52	50
449 ✓	83500	1671	77350	1548	18:41	15.9	20+15	50
TAPE 93								
450 ✓	83600	1673	77450	1550	18:52	12.2	30	50
451 ✓	83700	1675	77550	1552	19:02	25.7	46	50
452 ✓	83800	1677	77650	1554	19:12	23.4	43	50
453 ✓	83900	1679	77750	1556	19:20	30.4	51	50
454 ✓	84000	1681	77850	1558	19:33	28.7	51	50
TAPE 94								
455 ✓	84100	1683	77950	1560	19:43	28.6	51	50
456 ✓	84400	1689	78250	1566	19:55	21.4	48	50
457 ✓	84600	1693	78450	1570	20:02	27.3	48	50
458 ✓	84800	1697	78650	1574	20:10	28.0	50	50
459 ✓	85000	1701	78850	1578	20:20	32.3	50	50
TAPE 95								
✓ 460 ✓	85200	MOS	79050	1582	20:30	22.5	50	50
461	NOISE	/	79050	1582	20:33	/	/	/

SP = crew station #; SSP = MLH assigned sequential station #

1st Rcvr = crew station # of channel 1; S 1st Rcvr = MLH assigned sequential station #

	FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole (ms)	Depth (m)	Charge (kg)
	TAPE 95 cont'd								
	462	NOISE	/	79250	1586	10:06	/		
✓	463	85400	1709	79250	1586	10:14	34.6	50	50
✓	464	85600	1713	79450	1590	10:25	13.6	50	50
	TAPE 96								
✓	465	85800	1717	79650	1594	10:37	32.6	50	50
✓	466	86000	1721	79850	1598	10:55	22.8	40	50
✓	467	86200	1725	80050	1602	11:05	35.0	50	50
✓	468	86400	1729	80250	1606	11:27	34.0	50	50
✓	469	86600	1733	80450	1610	11:38	23.5	47	50
	TAPE 97								
✓	470	86800	1737	80650	1614	✓ 11:41 !	25.2	38	50
✓	471	87000	1741	80850	1618	12:20	31.3	50	50
	472 ✓	87200	1745	81050	1622	12:51	17.6	37	50
	473 ✓	87400	1749	81250	1626	14:30	6.4	42	50
	474 ✓	87600	1753	81450	1630	15:44	27.9	20+40	26+50
	TAPE 98								
✓	475	87800	1757	81650	1634	15:57	27.4	50	50
✓	476	88000	1761	81850	1638	16:24	34.3	50	50
✓	477	88200	1765	82050	1642	16:35	20.4	50	50
✓	478	88400	1769	82250	1646	16:50	15.9	20+15	50
✓	479	88600	1773	82450	1650	17:07	30.9	50	50
	TAPE 99								
✓	480	88800	1777	82650	1654	18:23	19.2	28+25	48
✓	481	89000	1781	82850	1658	18:35	31.3	50	50
✓	482	89200	1785	83050	1662	18:48	15.6	3X12	50
✓	483	89400	1789	83250	1666	19:00	17.5	40	50
✓	484	NOISE	/	83250	1666	19:03	/	/	/

GGL LJH 12 Sec
FILES

✓ UGL

7/13/92 195

FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole (ms)	Depth (m)	Charge (kg)
TAPE 100								
485	NOISE	/	83450	1670	9:15	/	/	
486	89600	1793	83450	1670	9:19	32.2	50	50
487	89800	1797	83650	1674	9:41	24.9	45	50
488	90000	1801	83850	1678	10:10	21.7	30	50
489	90200	1805	84050	1682	10:35	17.4	35	50
TAPE 101								
490	90400	1809	84250	1686	10:47	20.3	42	50
491	90600	1813	84450	1690	11:15	26.2	50	50
492	✓ 91400	1829	✓ 82450	1650	13:21	25.8	31+2x35+40	200
493	90800	1817	84650	1694	15:36	25.3	35	50
494	91000	1821	84850	1698	15:50	21.8	45	50
TAPE 102								
495	91200	1825	85050	1702	16:05	20.2	46	50
496	NOISE	/	85050	1702	16:10	/	/	

GGH 488 12 sec

TOT 498 Noise

7/14/92 196

(^ ✓ 015 shots (corrected MLH) (cable 1 +200m too long spread) UGC

FFID	SP	SSP	1st Recv	S 1st Recv	Shot Time	Uphole (ms)	Depth (m)	Charge (kg)
TAPE 102 (cont'd								
497	~~NOISE~~	/	85350	1708	11:03	/	/	/
498	91500	1831	85350	1708	11:19	16.4	30	50
499	91600	1833	85450	1710	11:30	12.1	30	50
TAPE 103								
500	91800	1837	85650	1714	11:45	13.5	40	50
501	84600	1693	✓ 87600	1753	14:20	28.9	2x50+42+44	200
502	92000	1841	85850	1718	15:32	12.1	?	50
503	92200	1845	86050	1722	16:05	10.5	3x18	50
504	92400	1849	86250	1726	16:15	10.2	3x12+18	50
TAPE 104								
505	92600	1853	86450	1730	16:28	15.9	4x ?	50
506	92800	1857	86650	1734	16:37	15.3	3x13	50
507	93000	1861	86850	1738	16:54	12.9	3x16	3x16
508	93200	1865	87050	1742	17:04	11.4	10+17+15	50
509	93400	1869	87250	1746	17:15	6.1	50	50
TAPE 105								
510	93600	1873	87450	1750	17:26	15.2	30	50
511	93800	1877	87650	1754	17:54	15.5	38	50
512	94000	1881	87850	1758	18:05	14.2	3x13	50
513	94200	1885	88050	1762	18:18	0	17+18	50
514	94400	1889	88250	1766	18:32	10.3	5x5	50

TOT 507 NOISE

7/15/92 197

	FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole	Depth (m)	charge (lbs)
	TAPE 106								
	S15	~~NOISE~~	/	88250	1766	12:20	/	/	
✓	S16	94400	1889	88250	1766	12:23	10.6	4X10	50
✓	S17	94600	1893	88450	1770	12:40	18.3	2X25	50
✓	S18	94800	1897	88650	1774	12:50	6.1	35	50
✓	S19	95000	1901	88850	1778	12:55	11.6	13+30	50
	TAPE 107								
✓	S20	95200	1905	89050	1782	13:12	6.1	2X25	50
✓	S21	95450	1910	89300	1787	13:59	10.7	3X18	50
✓	S22	95600	1913	89450	1790	14:43	10.1	3X ?	50
✓	S23	95800	1917	89650	1794	14:56	8.9	5X7	50
✓	S24	96000	1921	89850	1798	15:07	12.6	2X23	50
	TAPE 108								
✓	S25	96100	1923	89950	1800	16:49	6.1	2X20	50
✓	S26	96400	1929	90250	1806	17:35	6.1	4 ?	50
✓	S27	96600	1933	90450	1810	17:59	10.6	5X12	50
✓	S28	96750	1936	90600	1813	18:20	10.0	5X10	50
✓	S29	97000	1941	90850	1818	18:40	16.2	5X10	50
	TAPE 109								
✓	S30	97200	1945	91050	1822	18:54	10.9	5X8	50
✓	S31	97400	1949	91250	1826	19:10	10.6	6X5	50
✓	S32	97600	1953	91450	1830	19:40	18.1	5X7	50
✓	S33	97800	1957	91650	1834	19:50	6.1	4X10	34
✓	S34	98000	1961	91850	1838	19:59	7.0	5X8	50

TOT S19 Stacked

S21 "

S31 "

7/16/92 198

FF ID	SP	SSP	1st Rcvr	S1stRcvr	ShotTime	Uphole	Depth	Charge
TAPE 110								
535	Noise	/	92050	1842	11:10	/	/	
536	98200	1965	92050	1842	11:20	?	?	50
537	98500	1971	92350	1848	?	6.1	2x8+2x7	50
538	98600	1973	92450	1850	12:35	6.1	6x ?	50
539	98800	1977	92650	1854	13:05	8.7	5x10	50
TAPE 111								
540	99000	1981	92850	1858	13:46	6.1	6x5	50
541	99100	1983	92950	1860	14:01	6.1	6x6	50
542	99400	1989	93250	1866	14:30	6.1	5x6	50
543	99550	1992	93400	1869	14.50	6.1	7x7	50

GGH 536 GS 500

538 3sec btm

TUT 540 Crastell

7/18/92 200

FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole	Depth	Charge
TAPE 112								
544	NOISE	/	93900	1879	13:11	/	/	/
545	100050	2002	93900	1879	13:17	6.1	8x5	50
546	100200	2005	94050	1882	14:20	6.1	5x5	50
547	100400	2009	94250	1886	14:50	8.1	8x4	50
548	100600	2013	94450	1890	15:05	9.1	6x5	50
TAPE 113								
549	100800	2017	94650	1894	15:51	6.1	8x5	50
550	101000	2021	94850	1898	17:00	10.8	6x5	50
551	101200	2025	95050	1902	17:18	14.9	8x5	50
552	101400	2029	95250	1906	17:28	13.4	9x4	50
553	101600	2033	95450	1910	17:45	6.6	8x6	50
TAPE 114								
554	101800	2037	95650	1914	18:04	11.5	7x5	50
555	102000	2041	95850	1918	19:16	10.6	8x5	50
556	102200	2045	96050	1922	19:28	12.2	12x4	50
557	NOIE	/	96050	1922	19.31	/	/	/

7/19/92 201

FFID	SP	SSP	1st Rcvr	S1st Rcvr	Shot Time	Uphole	Depth	Charge	
TAPE 115									
558	NOISE		96250	1926	10:15	/	/	/	
559	102400	2049	96250	1926	10:35	10.1	8x5	50	
560	102500	2051	96350	1928	11:07	11.9	6x5	50	
561	102600	2053	96450	1930	11:30	8.9	3x5 + 2x7	50	
562	102700	2055	96550	1932	11:45	11.9	8x5	50	
TAPE 116									
563	102800	2057	96650	1934	12:15	?	8x5	50	
564	102900	2059	96750	1936	12:40	?	8x6	50	
565	103800	2077	97650	1954	14:20	12.2	8x6	50	
566	104000	2081	97850	1958	14:40	19.9	6x7	50	
567	104200	2085	98050	1962	15:05	21.5	8x4	50	
TAPE 117									
568	104400	2089	98250	1966	16:40	30.9	8x4	50	
569	104600	2093	98450	1970	16:57	12.1	10x3	50	
570	104800	2097	98650	1974	17:15	28.1	5x10	50	
571	105000	2101	98850	1978	17:30	24.7	7x7	50	
572	105200	2105	99050	1982	17:54	6.1	8x5	50	
TAPE 118									
573	107100	2143	100950	2020	21:01	8.2	4x10	50	
574	107200	2145	101050	2022	21:20	8.2	2x8 + 2x7	50	
575	107300	2147	101150	2024	21:26	0	5x8	50	
576	107400	2149	101250	2026	21:36	0	5x10	50	
577	107500	2151	101350	2028	21:45	?	5x8	50	

TOT 561

572 vs 573 Or [illegible]

CGU 575 3 Sec Loops

7/21/92 203

	FFID	SP	SSP	1stRcvr	S 1stRcvr	ShotTime	Uphole	Depth	Charge
	TAPE 119								
	S 78	NOISE	/	76600	1533	15:15	/	/	/
✓	S 79	73600	1473	76600	1533	15:30	22.9	2x50+46+35	4x50=200

U20

7/22/92 204

	FFID	SP	SSP	1st Recv	S 1st Recv	Shot Time	Uphole	Depth	Charge
	TAPE 119 Contd								
	580	NOISE	/	96400	1929	10:52	/	/	/
✓	581 ✓	93400	1869	96400	1929	11:00	25.2	2x38 +48+45	4x50 = 200.

7/23/92 205

	FFID	SP	SSP	1st Rcvr	S1st Rcvr	Shot Time	Uphole	Depth	Charge
	TAPE 60								
	300 NOISE			55000-60950	1101	17:40	/	2	
✓	299	52000	1041	55000-60950	1101	18:03	19.7	2x50 +43+32	150
✓	298	52000	1041	55000-60950	1101	18:43	24.1	50	50

① tar (usr, Promax) Compiled Shots from /usr/ProMAX/data2/projectiddepth/lihelsummer92

② " " Noise Files " "

③ Umount /dev/rz2c (HP 1.2 aka HD2) containing Noise Files 4852 4512CHDR + CTRC
+ Compiled Shots 84509608 CHDR + CTRC } 1,000MB

Shots 301 - 577 Noise 362 - 485

④ remove "/dev/rz2c : /usr/ProMAX/data2 : rw:1:4:ufs::" From /etc/Fstab ; shutdown system

⑤ replace HD2 with other HP 1.2 GB drive aka HD3

⑥ reboot system w/ HD3 in place of HD2

⑦ "newfs -o space -v /dev/rz2c rzhp2" to put a new file system on HD3, replacing the O/S on it

⑧ add "/dev/rz2c : /usr/ProMAX/data2 : rw:1:4:ufs::" back into /etc/fstab ; shutdown system

⑨ reboot + "cd /usr/ProMAX" ; "chmod a+wrx ./usr/ProMAX/data2"

⑩ "su mlhauck" ; "mkdir projectiddepth" ; "cd projectiddepth" ; "mkdir lihelsummer92"

⑪ system is now ready with free space on HD3

Performed above operations 7/24/92

8ms w/headers 301-541

shots 301-577 noise 362-485	HP 1.2 1st Secondary HD2 SCSI 2	HP 1.6 primary HD5 SCSI 1	Wren 7 System HD1 SCSI 0

shots 579- noise	HP 1.2 2nd Secondary HD3 SCSI 2	/dev/rz1c on /usr/ProMAX/data/projectiddepth	/dev/rz0a on / /dev/rz0g on /usr

/dev/rz2c on /usr/ProMAX/data2

7/24/92 206

	FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole	Depth	Charge
									included
	TAPE 60 Cont'd					Note this file has been w. slots			(CKDN)
✓	297	NOISE	/	51450-57400		11:09	/		/
✓	296	60400	1209	51450	1030	11:12	22.5	2x50+48+49	200
	TAPE 59								
✓	295	53200	1065	53400	1069	12:00	6.9	3x14	50
✓	10294	NOISE	/	53200	1065	1:?	/	✓	/
	TAPE 58								
✓	294	53000	1061	53200	1065	12:35	8.0	3x11	50
✓	293	52800	1057	53000	1061	12:55	8.9	5x5	50
✓	292	52600	1053	52800	1057	13:23	8.5	5x5	50
✓	291	52400	1049	52600	1053	13:35	9.3	31	50
✓	290	52200	1045	52400	1049	13:56	7.4	45	50
	TAPE 57								
✓	289	51900	1039	52100	1043	14:10	0	45	50
✓	288	51800	1037	52000	1041	14:20	15.2	38	50
✓	287	51600	1033	51800	1037	14:55	23.1	45	50
✓	286	51400	1029	51600	1033	15:05	15.2	2x15	50
✓	285	51200	1025	51400	1029	18:46	12.6	32	50
	TAPE 56								
✓	284	51100	1023	51300	1027	18:54	8.7	3x18	50
✓	283	51000	1021	51200	1025	19:00	18.9	38	50

45 ea
GGH 296 10.55
291 1st 24 ea Mods

TOT 295 Poor Production
257 Noise Prob

2/25/92 207

	EFID	SP	SSP	1st Recv	last Recv	Sh. t Time	Up. le	Depth	Charge	
	Tape 56 Cont'd									
✓	282	Noise	/	51000-56950	1021	10:43			/	
✓	281	50800	1017	51000-56950	1021	10:50	18.5	20	50	
✓	280	50600	1013	56750-50800	1017	11:08	11.6	4X10+15	50	misfire
	Tape 55									
✓	279	50400	1009	50600-56550	1013	11:49	8.3	8X5	50	
✓	278	50200	1005	50400-56350	1009	12:02	7.8	6X8	50	
✓	277	50000	1001	50200-56150	1005	13:58	14.7	5X8	50	
✓	276	49800	997	50000-55950	1001	14:10	10.5	3X10	50	
✓	275	49500	991	49700-55650	995	14:29	10.9	2X10+16	50	
	Tape 54									
✓	274	49400	989	49600-55550	993	14:40	9.6	5X15	50	
✓	273	49200	985	49400-55350	989	14:57	10.1	6X5	50	
✓	272	49000	981	49200-55150	985	16:11	24.3	48	50	
✓	271	48800	977	49000-54950	981	16:18	18.9	50	50	
✓	270	48600	973	48800-54750	977	16:25	10.1	20+30	50	
	Tape 53									
✓	269	48400	969	48600-54550	973	16:41	—	40	50	
✓	268	48200	965	48400-54350	969	16:58	—	4X20	50	
✓	267	48000	961	48200-54150	965	17:10	9.2	5X10	50	
✓	266	47800	957	48000-53950	961	—	9.1	2X10+13	50	

GG+ 269 Fuse, Aft Antenna

7/27/92 209 (No data collected 7/26/92)

	FFID	SP	SSP	1st Rcvr.	Last Rcvr.	Shot time	Uphole	Depth	Charge	
	Tape 53 Cont'd									
✓	265	Noise		—	—	10:51				
	Tape 52									
✓	264	Noise	/	49800-55750	997	10:54				
✓	263'	46800	937	49800-55750	997	11:11	—	?		Big shot 4.6 2 misfire ⇒100
✓	262'	47600	953	47800-53750	957	12:15	12.2	30	70	holler
✓	261'	47400	949	47600-53550	953	17:26	10.6	5X8		more
✓	260'	47200	945	47400-53350	949	17:34 ?	9.2	20+25		
	Tape 51									
✓	259'	47000	941	47200-53150	945	17:42	10.0	6X8	50	
✓	258'	46600	933	46800-52750	937	17:50	6.1 ?	6X8	50	
✓	257'	46400	929	46600-52550	933	18:13	6.2	17+16	50	
✓	256'	46400	929	46600-52550	933	18:19	—	5X8	50	shot 10
✓	255'	46200	925	46400-52350	929	18:42	6.1	25	50	evrnl
	Tape 50									
✓	254'	46200	925	46400-52350	929	18:55	8.8	2X8+10+7	50	
✓	253'	46000	921	46200-52150	925	19:24	9.8	35	50	
✓	252'	46000	933	46200-52150	925	19:26	10.8	6X8	50	
✓	251'	45800	917	46000-51950	921	19:36	8.4	2X12+6+10	68	
✓	250'	45600	913	45800-51750	917	20:00	8.9	4X10	50	
	Tape 49									
✓	249	45400	909	45600-51550	913	20:09	—	15+25	50	

GGII : 257 lone
253 ~23m Hole?

7/28/92 210

	EFID	SP	SSP	1st rcvr	Last rcvr	Sl.t t.	Upl.k	Dpth	Chge
	Tape 49 Cont'd								
	248	Noise		45400-51350	909	10:05	7.1		
✓	247'	45200	905	45400-51350	909	10:11	11.0	25+4x10	25
✓	246'	45000	901	45200-51150	905	10:25	6.8	2x20	50
✓	245'	45000	901	45200-51150	905	10:48	7.0	4x17	50
	Tape 48								
✓	244'	44800	897	45000-50950	901	11:03	7.0	14+2x9	50
✓	243'	44600	893	44800-50750	897	11:10	10.8	22+18	50
✓	242'	44600	893	44800-50750	897	11:15	7.2	2x8+20	50
✓	241'	44400	889	44600-50550	893	11:24	10.9	2x20	50
✓	240'	44200	885	44400-50350	889	11:44	7.2	26+18	50
	Tape 47								
✓	239'	44000	881	44200-50150	885	11:54	10.0	40	50
✓	238'	43800	877	44000-49950	881	12:00	7.4	2x25	50
✓	237'	43600	873	43800-49750	877	15:13	10.5	40	50
✓	236'	43400	869	43600-49550	873	15:38	9.6	23+15	50
✓	235'	43200	865	43400-49350	869	15:46	10.6	35	50
	Tape 46								
✓	234'	42950	860	43150-49100	864	16:16	11.0	39	50

241-238

23 sec reflect

GGB 247 Lots of reflect

243 Good 23 sec Mark

TOT 244 Noise

7/29/92 211

	FFID	SP	SSP	1st recv.	Last recv.	Shot t.	Uph.	Depth	Charge	
	Tape 46 Cont'd									
✓	233	Noise	/	44200-50150	885	9:45				
✓	232	41200	825	44200-50150	885	9:48	21.8	7x43, 48+41	200	2.0-2H S. rec'd.
✓	231	42800	857	43000-48950	861	10:18	11.1	35	50	
✓	230	42600	853	42800-48750	857	10:28	9.1	20+17	50	
	Tape 45									
✓	229	42400	849	42600-48550	853	10:29	8.4	20+27	50	
✓	228	42250	846	42450-48400	850	10:52	11.6	2x20	50	
	227	41700	835	41900-47850	839	11:29	11.6	25	50	
	Tape 44									
✓	226	41600	833	41800-47750	837	11:50	9.5	2x18	50	
✓	225	41600	833	41800-47750	837	12:11	11.9	18	25	
✓	224	41500	831	41700-47650	835	12:25	9.6	2x20	50	
✓	223	41400	829	41600-47550	833	12:33	14.9	40	50	
✓	222	41000	821	41200-47150	825	12:57	21.1	45	50	
	Tape 43									
✓	221	40800	817	41000-46950	821	13:08	11.5	2x27	?	
✓	220	40600	813	40800-46750	817	13:13	11.4	37	?	
✓	219	40400	809	40600-46550	813	13:55	19.7	45	?	
✓	218	40200	805	40400-46350	809	14:04	16.2	47	?	
✓	217	40000	801	40200-46150	805	14:55	10.1	30	?	
	TAPE 42									
	216	39800	797	40000-45950	801	15:08	10.9	2x28	50	OK
	215	NOISE	/	40000-45950	801	15:11	/	/	/	

Could dig deeper N 30°

CGH 231 25 sec Mch

222 25 + 25

218 Power Typ

7/31/92 213 (NO SHOTS 7/30/92)

FFID	SP	SSP	1stRec	SlstRec	Time	Uphole	Depth	Charge
TAPE 42 Cont'd								
214	NOISE	/	39800-45750	797	?	/	/	/ 45sec record
~~213~~	~~39600~~	~~793~~	~~39800-45750~~	~~797~~	~~10.44~~	~~11.3~~	~~2x20~~	50 Couldn't read
TAPE 41								
212'	39400	789	39600-45550	793	10:55	11.2	2x20	50
211'	39200	785	39400-45350	789	11:05	9.7	27	50
210'	39000	781	39200-45150	785	11:19	8.1	50	50
209'	38800	777	39000-44950	781	11:28	9.4	2x22	50
208'	38600	773	38800-44750	777	11:34	11.8	40	50
TAPE 40								
207'	38400	769	38600-44550	773	11:41	18.7	43	50
206'	38200	765	38400-44350	769	11:54	9.1	35	50
205'	38000	761	38200-44150	765	12:00	11.2	38	50
204'	37800	757	38000-43950	761	12:11	11.4	2x20	50
203'	37600	753	37800-43750	757	12:18	14.5	45	50
TAPE 39								
202'	37400	749	37600-43550	753	16:37	8.1	2x20	50
201'	37200	745	37400-43350	749	16:44	13.2	20+22	50
200'	37000	741	37200-43150	745	16:48	12.2	40	50
199'	36800	737	37000-42950	741	16:58	12.7	36	50
198'	36200	725	39200-45150	785	17:47	?	2x20+22+24	200

GOL 207 23+25

8/1/92 214

FFID	SP	SSP	1st Rcvr	Slst Rcvr	Shot Time	Uphole	Depth	Charge
TAPE 38								
197	NOISE	/	36800-42750	737	10:00	/	/	/
196	36600	733	36800	737	10:05	6.1	2x19	50
195	36400	729	36600	733	10:12	6.8	38	50
194	36000	721	36200	725	10:22	13.9	2x20	50
193	35800	717	36000	721	10:38	13.1	30	50
TAPE 37								
192	35600	713	35800-41750	717	10:46	6.2	38	50
191	35400	709	35600	713	10:59	16.1	30	50
190	35200	705	35400	709	11:08	13.8	17+20	50
189	35000	701	35200	705	11:14	11.1	30	50
188	34800	697	35000	701	16:36	11.5	2x19	50
TAPE 36								
187	34550	692	34750-40700	696	16:45	15.2	36	50
186	34400	689	34600	693	16:57	8.6	2x20	50
185	33900	679	34100	683	17:08	13.9	2x19	50
184	33800	777	34000	681	17:14	12.9	20+18	50
183	33700	675	33900	679	17:49	15.4	2x25	50
TAPE 35								
182	33400	669	33600-39550	673	18:00	11.6	2x22	50
181	NOISE	/	33600	673	18:07	/	/	/

8 Hz field
low-cut applied
DFS-V th
files only
as test

GGH 192 255 unit

TOT 57 NCE 27

FFID	SP	SSP	1stRcvr	S1stRcvr	ShotTime	Vhole	Depth	Charge
TAPE 35 Cont'd								
180	NOISE	/	33400 - 39350	669	12:05	/	/	/
179'	33200	665	33400	669	12:12	13.4	2x23	50
178'	33000	661	33200	665	12:40	12.5	30	50
TAPE 34								
177'	32800	657	33000	661	13:00	9.7	4x10	24 misfires
176'	32600	653	32800	657	16:10	13.1	20	20
175'	32400	649	32600	653	16:25	14.0	8x10	50
174'	32200	645	32400	649	16:35	12.5	2x20	50
173'	32000	641	32200	645	18:00	9.0	2x20	50
TAPE 33								
172	NOISE	/	32200?	645?	18:06	/	/	/

Got 179 Mike

Aug 5/92 218 (216 + 217 NO SHOTS)

	FFID	SP	SSP	1stRcvr	S 1stRcvr	ShotTime	Depth	Uphole	Charge
	TAPE 33 CONT'D								
✓	171	NOISE	/	32000-37950	641	16:40	/	/	/
✓	170 ✓	31800	637	32000-37950	641	16:45	2×20	6.1	50.
✓	169 ✓	31600	633	31800-37750	637	17:15	2×20	9.9	50
✓	168.	NOISE	/	34000-39950	681	17:50	/	/	
	TAPE 32								
✓	167 ✓	31000	621	34000-39950	681	18:02	20+25+30+35	18.5	200

X-talk NOT USEFUL

SEVERE CROSSTALK ON ALL RECVRS
ALL SHOTS ARE REJECTS

169, 170, TOT

8/6/92 219

	FFID	SP	SSP	1stRcvr	S 1stRcvr	ShotTime	Depth	Uphole	Charge	
	TAPE 32 Cont'd									
✓	166	NOISE	/	31600-37550	633	13:47	/	/	/	
✓	165	31400	629	31600	633	13:52	16+20	9.8	50	CANT DEMUX
X	164	31200	625	31400	629	13:59	2x18	7.6	50	
✓	163	30800	617	31000	621	14:14	30	11.1	50	
	TAPE 31									
✓	162	30600	613	30800-36750	617	14:26	2x15	7.8	50	
✓	161	30400	609	30600	613	14:34	2x18	10,7	50	
✓	160	30200	605	30400	609	14:38	2x20	12.5	50	
✓	159	29900	599	30100	603	14:49	2x20	10.0	50	
✓	158	29800	597	30000	601	14:53	2x20	9.0	50	
	TAPE 30									
✓	157	29600	593	29800-35750	597	15:01	8+10	7,0	50	
✓	156	29400	589	29600	593	15:09	2x23	12.2	50	
✓	155	29200	585	29400	589	15:15	29	13,2	50	
✓	154	29000	581	29200	585	16:05	2x18	6.1	50	
✓	153	28800	577	29000	581	16:13	2x20	10.6	50	
	TAPE 29									
✓	152	28600	573	28800-34750	577	16:20	2x15	13.1	50	
✓	151	28400	569	28600	573	16:25	17+14	13.3	50	
✓	150	28200	565	28400	569	16:30	2x22	?	50	
✓	149	28000	561	28200	565	16:35	30	11.1	50	
✓	148	27800	557	28000	561	16:46	2x20	14.3	50	
	TAPE 28									
✓	147 (on field tape as 4)	25000	501	28000-33950	561	17:45	3x40+38	24.7	200	
	146	NOISE	/	28000	561	18:15	/	/	/	
✓	145	27600	553	27800-	557	19:12	2x12	?	50	
✓	144	27600	553	27600	553	19:24	35	6.1	50	
✓	143	27400	549	27400	549	20:00	2x21	10.7	50	

GGH 163 cont 20-255

8/6/92 Cont'd 219 cont'd

	FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Depth	Uphole	Charge
	TAPE 27								
✓	142	27000	541	27200-33150	545	20:08	30	11.9	50
✓	141	26800	537	27000	541	20:15	30	8.5	50
✓	140	26600	533	26800	537	20:18	30	6.1	50
✓	139	26400	529	26600	533	20:24	17+18	6.1	50
✓	138	26200	525	26400	529	20:30	34	15.9	50
	TAPE 26								
✓	137	26000	521	26200-32150	525	20:35	34	6.1	50
✓	136	25800	517	26000	521	?	2x20	15.1	50
✓	135	25600	513	25800	517	20:53	2x18	6.2	50
	134	NOISE	/	25800	517	?	/	/	/

8/7/92 220

	FFID	SP	SSP	1st Rcvr	S1stRcvr	ShotTime	Depth	uphole	Charge
	TAPE 26 Cont'd								
	133	NOISE	/	25600-31550	513	11:56	/	/	/
	TAPE 25								
✓	132	25400	509	25600-31550	513	12:00	2x21	13.8	50
✓	131	25200	505	25400	509	12:07	35	17.7	50
✓	130	24800	497	25000	501	12:12	50	26.2	50
✓	129	24600	493	24800	497	12:16	32	14.3	50
✓	128	24400	489	24600	493	12:21	20+25	8.0	50
	TAPE 24								
✓	127	24200	485	24400-30350	489	12:31	30	11.7	50
✓	126	24000	481	24200	485	12:37	43	21.7	50
✓	125	23800	477	24000	481	12:44	35	12.2	50
✓	124	23600	473	23800	477	12:55	2x20	9.4	50
✓	123	23400	469	23600	473	13:45	17+20	14.0	50
	TAPE 23								
✓	122	23200	465	23400-29350	469	13:55	15+20	7.2	50
✓	121	23000	461	23200	465	14:44	20+20	6.9	50
✓	120	22800	457	23000	461	14:50	2x18	6.1	50
✓	119	22600	453	22800	457	15:05	31	10.7	50
✓	118	22400	449	22600	453	15:16	30	11.3	50
	TAPE 22								
✓	117	22200	445	22400-28350	449	16:27	2x19	10.7	50
✓	116	22000	441	22200	445	16:37	25	7.7	50
✓	115	21800	437	22000	441	16:52	2x18	6.1	50
✓	114	21550	432	21750	436	18:26	8x10	6.4	48
✓	113	21400	429	21600	433	18:49	8x10	6.1	48
	TAPE 21								
	112	NOISE	/	21600-27550	433	18:55	/	/	/

GGH 116 3+9 sic

8/8/92 221

U4N

	FFID	SP	SSP	1stRcvr	SistRcvr	ShotTime	Depth	Vshole	Charge
	TAPE 21 (contd)								
	111	NOISE	/	21400-27350	429	15:34	/	/	/
✓	110	21200	425	21400	429	15:44	2x18	6.1	50
/	109	20950	420	21150	424	16:34	4x13	12.2	50
✓	108	20700	415	20900	419	17:34	2x20	18.1	50
	TAPE 20								
	107	NOISE	/	20900	419	18:45	/	/	/

	FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole	Depth	Charge
	TAPE 20 Cont'd.								
	106	NOISE	/	20750-26700	416	11:12	/	/	/
✓	105	20550 ~~20950?~~	412 ~~420?~~	20750	416	11:56	12.7	30	50
✓	104	20300 ~~20700?~~	407 ~~415?~~	20500	411	13:14	13.1	8X10	50
✓	103	20150 ~~20450?~~	404 ~~410?~~	20350	408	13:45	13.6	6X15+15	50
	TAPE 19								
✓	102	20000 ~~20400?~~	401 ~~407?~~	20200-26150	405	14:15	6.6	8X10	50
✓	101	19800 ~~20000?~~	397 ~~405?~~	20000	401	14:32	9.5	8X10	50 ← 3922 ave
✓	100	19600 ~~20000?~~	~~393~~ 393 ~~401?~~	19800	397	14:52	19.6	2X18	50
✓	99	19400 ~~19800?~~	389 ~~397?~~	19600	393	15:04	13.6	18+20	50
✓	98	19200 ~~19600?~~	385 393?	19400	389	15:21	12.0	8X8	50
	TAPE 18								
	97	NOISE	/	19400-25350	389	15:27	/	/	/

OK
~~CHECK THIS PAGE~~
~~AGAIN IN LHASA!~~

1000x9

8/10/92 223

FFID	SP	SSP	1st Rcvr	S 1st Rcvr	Shot Time	Uphole	Depth	Charge
TAPE 18 Contd								
96	NOISE	/	20600	413	16:04	/	/	/
95	17600	353	20600	413	16:20	9.9	22+20+25+40	200
94	19000	381	19200	385	17:25	13.5	6x10	50
93	18800	377	19000	381	17:45	13.4	8x10	50
TAPE 17								
92	18600	373	18800	377	18:03	15.6	2x18	50
91	18400	369	18600	373	18:10	12.1	2x20	50
90	18200	365	18400	369	18:18	11.8	25+22	50
89	18000	361	18200	365	18:22	9.3	25+20	50
88	17500	351	17700	355	18:58	22.1	8x10	50
TAPE 16								
87	17400	349	17600	353	19:05	9.4	2x15	50
86	17200	345	17400	349	19:12	10.7	2x21	50
85	17100	343	17300	347	19:20	6.1	8x8	50
84	NOISE	/	17300	347	19:22	/	/	/

8/11/92 224

FFID	SP	SSP	1stRcvr	S1stRcvr	ShotTime	Uphole	Depth	Charge	
TAPE 15									
83	NOISE	/	16400-22350	329	11:30	/	/	/	
82 ✓	16200	325	16400	329	11:35	15.6	2X20	50	
81 ✓	16100	323	16300	327	11:45	22.2	2X20	50	
80 ✓	15900	319	16100	323	12:05	12.7	20+22	50	
79 ✓	15800	317	16000	321	12:17	13.0	2X20	50	
TAPE 14									
78 ✓	15700	315	15900-21850	319	12:31	11.8	2X19	50	26sec ✓
77 ✓	15600	313	15800	317	13:00	12.8	20+12	50	
76 ✓	15500	311	15700	315	13:22	12.4	2X20	50	
75 ✓	15400	309	15600	313	13:28	12.5	2X20	50	
74 ✓	15300	307	15500	311	13:37	16.0	33	50	
TAPE 13									26.25sec ✓
73 ✓	15200	305	15400-21350	309	13:45	15.1	30	50	5 dip @ 1. Moho
72 ✓	15000	301	15200	305	14:01	11.5	2X18	50	
71 ✓	14800	297	15000	301	14:12	11.4	2X20	50	parity error
~~70~~	~~14600~~	~~293~~	~~14800~~	~~297~~	~~14:26~~	~~12.2~~	~~18+20~~	50	cannot demux
69 ✓	14400	289	14600	293	15:25	18.0	18+20	50	
TAPE 12									
68 ✓	14200	285	14400-20350	289	15:37	16.7	30	50	good shot - no blow-out at
67 ✓	14000	281	14200	285	15:57	15.8	2X15	50	
66 ✓	13800	277	14000	281	16:06	15.5	2X20	50	
65 ✓	13600	273	13800	277	16:14	9.2	30	50	rocks blow out of ground
64 ✓	13400	269	13600	273	16:30	18.7	2X20	50	
TAPE 11									
63 ✓	13200	265	13400-19350	269	16:42	10.2	2X15	50	
62	NOISE	/	13400	269	18:40	/	/	/	

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FFID	SP	SSP	1stRcvr	S 1stRcvr	ShotTime	Uphole	Depth	Charge	
TAPE 11 Contd									
61	NOISE	/	19150-13200	265	10:58	/	/	/	
60	13000	261	19150-13200	265	11:04	20.6	25	50	can't dewx
59	12800	257	18950-13000	261	11:14	15.0	25	50	
TAPE 10									
58	12600	253	18750-12800	257	11:21	15.2	2x20	50	
57	~~9600~~ 9200	185	18550-12600	253	12:57	13.7	2x25+24+34	200	
56	NOISE	/	18550 12600	253	13:02	/	/	/	

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INDEPTH-2 CROSS-LINE TIB-2U47

FFID	SP	SSP	1stRcvr	S 1stRcvr	ShotTime	Uphole	Depth	Charge
TAPE 1000								
1	NOISE		2800-8750	5	11:30	/	/	/
2	2600	1	2800-8750	5	11:35	24.8	8x5	50
3	7800	105	4850-10800	46	12:17	16.6	2x20	50
4	8800	125	7650-8600	2	12:31	12.0	2x20	50
5	9000	129	2850-8800	6	12:37	9.9	18+20	50
6	9200	133	3050-9000	10	12:50	13.5	2x20	50
TAPE 1001								
7	9400	137	3250-9200	14	12:58	13.8	2x18	50
8	9600	141	3450-9400	18	13:15	7.7	2x20	50
9	9800	145	3650-9600	22	13:19	11.2	2x18	50
10	10000	149	3850-9800	26	13:24	10.2	2x20	50
11	10200	153	4050-10000	30	13:28	9.9	2x18	50
TAPE 1002								
12	10400	157	4250-10200	34	13:42	8.1	2x18	50
13	10500	159	4350-10300	36	13:47	9.6	18+20	50
14	10600	161	4450-10400	38	13:52	10.3	2x18	50
15	11200	173	4850-10800	46	14:38	8.6	2x15	50
16	11400	177	4850-10800	46	14:49	14.9	2x18	50
TAPE 1003								
17	11600	181	4850-10800	46	14:59	9.5	2x20	50
18	11800	185	4850-10800	46	15:20	18.5	2x20	50
19	NOISE	/	4850-10800	46	15:21	/	/	/

① Channel 1 is West on INDEPTH-2

② All Station Numbers are for INDEPTH-2

③ Calm, clear day, no wind, no x-talk

X-LINE REFRACTION VELOCITIES

FFID	CHAN	LOC	TIME	VELOCITY

AMPLITUDE vs. TIME

CDPS: 994 - 2502 (Best Records, an Average) OFFSETS: 0 - 500 m only 1148 traces

CDPS: 3872 - 4296 (Worst Records, an Average) 2x BP 0.2-12.5-15 299 traces

500ms analysis window

TIME		GOOD 994-2502 RMS avg	BAD 3872-4296 RMS avg	Good w/ Hi-Cut RMS Avg	Bad w/ Hi-Cut RMS avg
250	≈ 5km	18.02 = 0	13.02	5.01 = -11.12	-14.12 = 3.54
1000	4km/s	16.67	13.16	14.91	12.9
1500		15.44	9.16	15.64	10.30
2500	≈ 8km	9.62	2.99 =	10.20 = -4.94	-14.59 = 3.36
5000		2.06	1.07	2.22	0.99
7500		0.722	0.143	0.777	0.1
10 000	6km/s	.323	6.45×10^{-2}	.340	4.31×10^{-2}
15 000		.307	5.07×10^{-2}	.342	2.24×10^{-2}
20 000	≈ 60km	.122	.981	4.865×10^{-2} = -51.37	-36.52 = 0.269
25 000		9.46×10^{-2}	3.88×10^{-2}	6.79×10^{-2}	2.13×10^{-2}
30 000		0.113	4.31×10^{-2}	4.15×10^{-2}	2.51×10^{-2}
35 000 to 45 000	8km/s	0.598	4.254	0.489	0.139
49 750	2225km	9.4×10^{-2}	6.49×10^{-2}	4.52×10^{-2} = -52.01	-53.41 = 3.63×10^{-2}
0 - 50sec		3.682	2.368	3.079	1.973

8.636×10^{-2}, 0.430, 4.67×10^{-2}, 2.986×10^{-2}, 2.71×10^{-2}, 7.98×10^{-2}

+ℓ₂ 0-50 sec offset 0-500 m

	CDPS: 994-2502	CDPS: 3872-4296	CDPS 994-2502	CDPS 3872-42
smallest pos	1.58×10^{-8}	9.54×10^{-8}	5.164×10^{-10}	5.78×10^{-9}
smallest neg	-1.21×10^{-8}	-6.42×10^{-8}	-5.983×10^{-10}	$-1.926 \times 10^{-}$
biggest pos	48.97	43.63	57.065	53.907
biggest neg	-47.77	-45.85	-57.164	-49.15
rms avg	3.682	2.368	3.079	1.973

DFS-V (from manual)

A-D Conversion 16 bits + sign bit

Dynamic Range at Gains = 2^4 115 db

Gain = 2^6 114 db

Gain = 2^8 106 db

Max Gain = 2^{22} = 132 db

Min Gain = 2^4 = 24 db

10	126.8	60	.401
20	40.0499	70	0.126807
30	12.68	80	0.0401
40	4.0099	90	0.0127
50	1.26807	100	0.00401

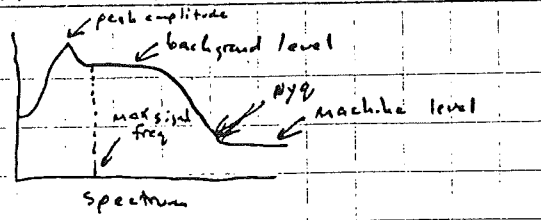
106 = .002

115 = .00

108 db = .00

AMPLITUDE vs. TIME CONTD.

Definitions



(peak amplitude) − (background level) = signal strength

(peak amplitude) − (machine level) = practical dynamic range

(500ms window) Time	db down Background From Peak	db down Machine level From peak	max signal freq
250	~~44~~	~~+32~~ ~~44~~ Nyq	18
1000	~~Nyq~~ 58	+32 ~~58~~ Nyq	6
1500	62	+32 Nyq	6
2500 ~~2500~~	64	+32 Nyq	6
5000 ~~5000~~	20	+32 55	6
7500	20	+32 50	4
10,000	15	+32 42	4
15,000	11	+32 38	3
20,000	25	+32 48	14
25,000			
30,000			
35,000			
40,000			
45,000			
50,000			
all 50sec	.40	115	

0-50 sec analysis window	db down from max Background	db down from max Machine	max sig freq
~~good~~ bad	.40 db	−115 db	30 Hz
~~BP bad~~	~~.40 db~~	−110 db	15 Hz ← ? what does this mean for BP data? ... maybe this is irrelevant
~~good~~ good	−60 db	−108 db	47Hz @ anti-alias filter
~~BP good~~ BP good		−75 db	15Hz

AMPLITUDE VS TIME CONTD

TIME (500ms window)	Good Fx'd	Best Stack 437-4296	Bad Fx'd	437-4296 Raw Stack
250	5.466	96.701	3.129	5.6789
1000	5.106	36.917	3.385	8.188
1500	4.923	34.838	2.489	6.493
2500	3.098	34.356	0.6554	3.7127
5000	0.4800	34.702	0.1253	1.1839
7500	0.1524	33.404	0.03945	.4919
10,000	.06599	32.552	0.02377	.3172
15,000	.021165	33.632	0.01074	.19485
20,000	.01385	32.871	0.008939	.13096
25,000	.01039	32.919	0.006453	.19106
30,000	.01355	34.861	0.0075577	.1375
35,000	.009614	35.657	0.0069610	.2286
40,000	.0084036	36.046	.010295	.2429
45,000	.008815	33.643	.011398	.1843
50,000	.01099	31.030	.009324	.2137
0-50sec	1.1124	39.523 ~~39.623~~	0.58879	1.5412
Largest Pos	31.2018		19.1931	55.90336
Largest Neg	-32.58219		-19.70095	-59.85129
Smallest Pos	3.75957×10^{-10}		5.4224×10^{-8}	3.14464×10^{-8}
Smallest Neg	-3.36508×10^{-10}		-4.51467×10^{-8}	-1.10621×10^{-8}

WINDSTRIPS

	RMS empl.	Biggest	Smallest	Knock these down
W. July Scan FFIDs 300-400 (Tonal)	.36955	± 31.98	$\pm 1 \times 10^{-7}$	by (115-106)db =
Monsoon FFID's 150-299 (Tonal)	.14309	± 31.98	$\pm 1 \times 10^{-8}$	9db. due to
Monthly FFID 197 (10:00am)	4.9163×10^{-3}	-1.6406	8.01×10^{-9}	gain used on
event FFID 181 (6:07pm)	6.3441×10^{-2}		7.43×10^{-8}	DFS-V

Stacks 45-505 437-2502 3872-4296

0.2826105 6.976843

SHALLOW REFRACTION SURVEYS

1 second records @ 4 ms sample rate 1 ½ + .2m holes

1 meter ~~receiver~~ shot spacing

TAPE #1

FILE	LOCATION	hole	charge
47	57000	.2m	.5kg
48			
49	59100		
50			
51	61300		
52			
53	63100		
54			
55	65200	.2m	.5kg
56			
57	67200		
58			
59	69100		
60			
61	71200		
62			
63	73200		
64			
65	77050	.5m	.2kg
66			
67	77500		
68			
69	79250		
70			
71	81200		
72			
73	83200		
74			
75	85400		
76			

FILE	LOCATION	hole	charge
77	87000	.2m	1kg
78			
79	89000		
80			
81	91000		
82			
83	93000		
84			
85	95000		
86			
87	97000	.2m	1kg
88			
89	98850		
90			
91	100050		
92			
93	102800		
94			
95	105250		
96			
97	107500	.2m	1kg
98			

SHALLOW REFRACTION CONTINUED

TAPE #2

FILE	LOCATION	DEPTH	CHARGE
41	51000	.2m	.5kg
42			
43	53000		
44			
45	55000		
46			
40	49000	.2m	1kg
39			
38	47000		
37			
36	45000		
35			
34	43000		
33			
32	41000		
31			
30	39000	.2m	1kg
29			
28	36850		
27			
26	34850		
25			
24	33000	.25m	.5kg
23			
22	30900		
21			
20	29000		
19			
18	26800		
17			
16	24600		
15			

FILE	LOCATION	DEPTH	CHARGE
14	22800	.25m	.5kg
13			
12	21000		
11			
10	18900		
9			
8	17000		
7			
6	15100		
5			
4	13000	.25m	.5kg
3			
2	11200		
1			

TAPE #3

FILE	LOCATION	DEPTH	CHARGE
121	10800	.25m	.5kg
122			
123	9000		
124			
125	7000		
126			
127	5000		
128			
129	3000		
130			

DOGHOUSE

DFS-V

120 channels ; 50m channel spacing ; 4ms sample rate ; 50s record length

source spacing: nominal 200m ; stack fold: nominal 15 ; antialias filter 64Hz (wrong headers)

nominal offset: 200.m same to nearest receiver ; channel 1 always South

Manufacture: Texas Instruments, Inc. Instrument Serial No. 991 Instrument Gain Constant: 1885810750 40

Number of Bytes/data scan = 314 High Cut Filter 64 Hz w/ slope 70 dB/octave

Recording System Format Code = 200

GEOPHONES

Make

Frequency

number/group

50m s

EXPLOSIVE

Type

Manufacture

Dynamite Equivalent

DRILL RIGS

Number

Make

Year of Manufacture

Number

Make

Year of Manufacture

PROMAX DEMUX PARAMETERS FOR DFS-V

120 channels; IFP + Preamp Gain: Transduction ,5

1:250/60: 3937.5 /61: 281.25 /120: 3968.75

more

Data Collected by: The 5th Geophysical Exploration Brigade, MGMR

Huang Zhao Ya, Vice Brig Captain / Team Leader Geophysicist

黄金亚

Wu Xin Min, Captain

吴新民

(GPEPBS)
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Hunan City, China
Code 22232
Tel. 0732 - 63259
Postcode 411104

Crew Technical Information

A. Geophones - make, frequency, number per group

B. Explosive - Type, manufacture, dynamite equivalent

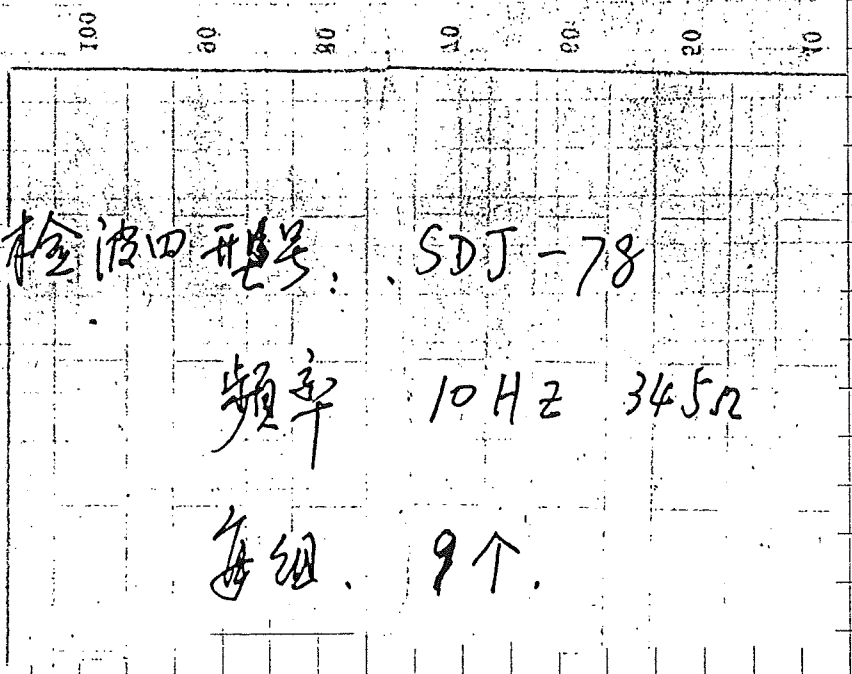
C. Drill Rigs - number, make, year of manufactur-

6. 地震队的技术资料

A. 检波器：型号，频率，每组数

B. 炸药：类型，厂家，相当动力

C. 钻机：台数，型号，出厂年份



检波器型号：SDJ-78

频率 10Hz 345Ω

每组 9个.

地矿部
中南石油地质局 **第五物探大队**

型号	台数	生产厂家
DPP-100-3B型	4台	1992年〈北京探矿机械〉
DPP-100-3型	2台	1982年〈北京探矿机械〉

注：4台是：东风车，2台是解放车，钻机都是3型号。

炸药类型

梯恩梯药柱、

导爆

国营青海化工机械厂

地址：湖南湘潭云湖桥

Shallow Refraction

Spread Layout