



050-211 C

This cover sheet must be completed at the beginning of each line, or when parameters change.

GENERAL

Crew No. 6234 Contract No. 799

Client COCOPP

Area Georgia

Country Georgia

County TATTNALL

Concession Georgia

Party Mgr. B. Cassidy OB/NO R. Patten

Line No. 17 Date Start of Line 2-7-85

Sta. Int. 330' Feet 4200 Z
Meters 1280 Fold

Spread Dimensions 1-487 station 49-96
Gap

VP's Increase N E S W
S → N

GEOPHONES

Manufacture MDI/MS Array Length 322'

Frequency 84Z Array Width IN LINE

No. per string 2-12 Array Across Between Sta
per trace 24 TOTAL Centered

Separation Ser Par Coil Res. 335 cms

String Connected String Phone

Connected at Sta Ser Par Separation between elements in the array 14.34'

14'

RECORDING SYSTEM

Type: MDS-10

Format: SEG B

No. of Channels: 96

Sample Rate: 8ms

Record Length: 48 sec

BPI: 800

Low-Cut Filter Freq: OUT

Slope: OUT

High-Cut Filter Freq: ALIAS 3125Hz

Slope: OUT

Static Filter In Out

Notch Filter In Out

60 Hz

UH Ch. Wireline On Tape N/A

On Tape Radio On Tape N/A

Sweep Ch. AUX 2 galvo 50

On Tape AUX 4 galvo 52

ENERGY SOURCE

Type: 47 1100's vibrators

Type: 1V 900 Vibrator

Manufacturer: George E. Failing

Source Control: RCV 310

Holes/Shotpoint: N/A

Charge/Shotpoint: N/A

Pattern Length: N/A Feet Meters

Array Length: 489' Feet Meters

No. of drops, sweeps, etc. in array: 8 sweeps

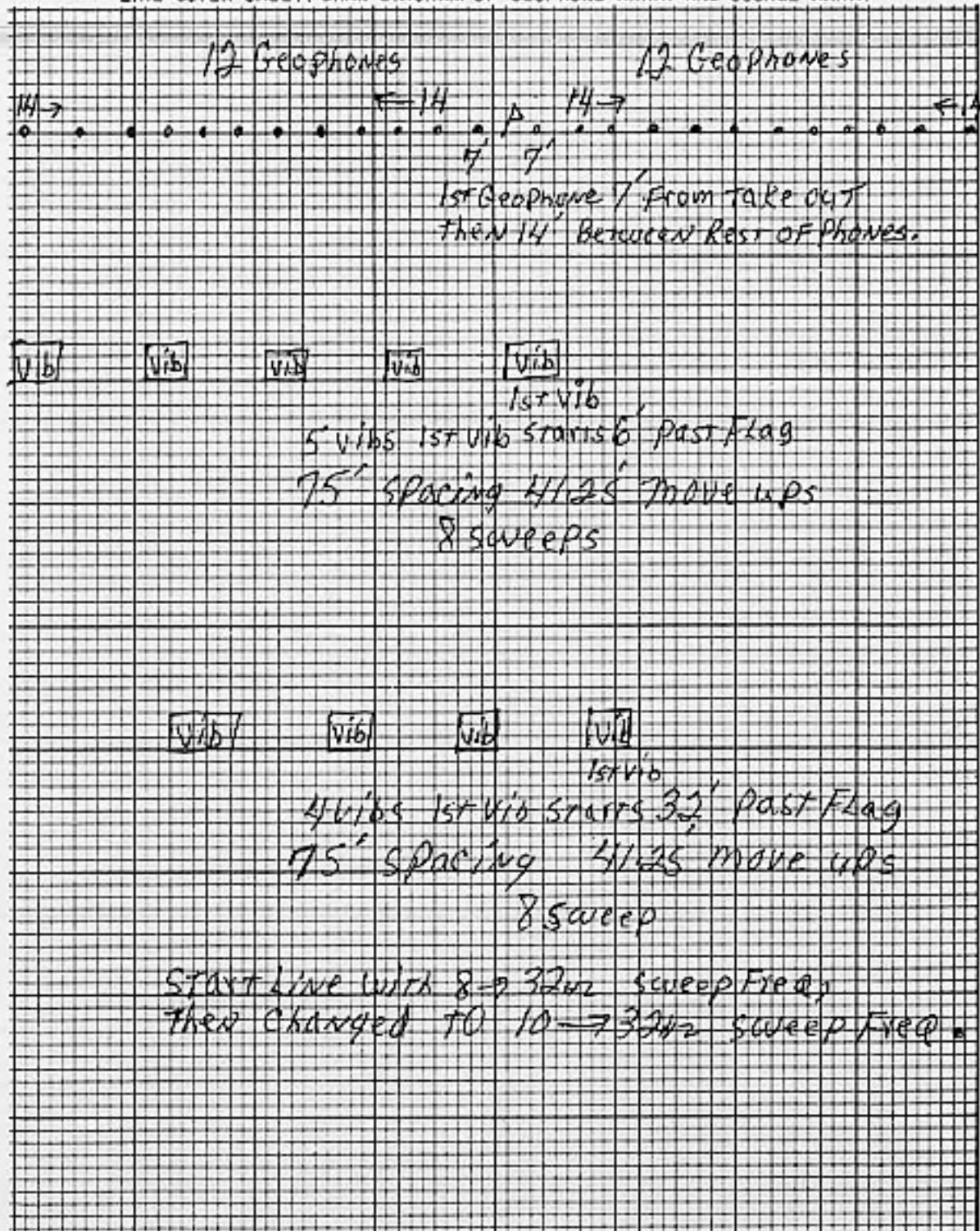
Sweep Length: 32 sec

Unit Separation: 75' Feet Meters

Unit Moveup: 41.25' Feet Meters

Array Centered: Across Sta Between Sta

LINE COVER SHEET: DRAW DIAGRAM OF GEOPHONE ARRAY AND SOURCE ARRAY



REMARKS: Air Gun Delay, etc.

VARI SOURCE USED Yes No Invalid Channels:

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 1 PAGES

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP 630		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER CLEAR & WET, DIST. ROAD		TRAIL CONDITIONS		DATE MONTH 2 DAY 7 YEAR 85		CLIENT COCOPE		OPR. K. Patten		BY B. Cassidy	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	RAW PAPER REEL NO.	PARITY TAPE	MEMORY TAPE	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUNS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
933	Pulse	1	-	6	sec		636	48											72		SPRT spread	Georgia TEST	
934/935	EINT	2	-	"	"																	7 station gap, BOT = 636 * 900 10 sec All ones.	
936/939	DRD	4	-	"	"																	ARRIVE FIELD 8:05	
953/954	Sum test	2	-	"	"																	5 Vib, 1st Vib starts 6' Post Flag, 75' spacing, 41.25 move ups, 32 sec sweep, 48 sec Record, 8 sweeps, Alias 31.25 Hz	
960/961	NRT Test	2	-	"	"																	TEST	
932	Similarity	1	-	32	sec	235									4	1	30%		9:15			8 -> 32 Hz. Sweep Freq, 8 ms Sample Rate.	
	windstrip	1	-	48	sec																	4 ms sample Rate Alias 62.5 60db NO windstrip on tape.	
001	67	16	63	71	118	16	Taped	Drive 1							1	8	30%			10:00		Normal move ups. Replanting Jugs Trace 39, 32, 37, 36, 35,	
002	67	16	63	71	118	16									1	8	30%					Normal move ups.	
003	67	49	-	96	wave test										1	2	62					Very Low Drive NO move ups.	
004	63	49	-	96	wave test										2	2	50%					2 Vib side by side. NO move ups.	
005	59	49	-	96	wave test										2	6	50%					2 Vib side by side. NO move ups.	
006	54	49	-	96	wave test										2	12	50%					2 Vib side by side NO move ups.	
007	56	49	-	96	wave test										2	8	50%					2 Vib side by side NO move ups.	
008	52	49	-	96	wave test										2	8	50%					2 Vib side by side NO move ups.	
009	48	49	-	96	wave test										2	8	50%					2 Vib side by side NO move ups.	
010	59	49	-	96	wave test	636	8	->	32m	16	sec	sweep			1	12	50%					32 sec Record. 1 Vib NO move ups. EOT = 636 Tape. MKTS.	

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 1 PAGES

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear, Windy, Dist Road		TRAIL CONDITIONS		DATE MONTH 2 DAY 7 YEAR 85		COMP. CO. COCORP		OP. R. Patton		PR. B. Cassidy		
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN DAMPS or X	PARITY		SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS			
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SWS					DRIVE		
001	Wind strip	1	48	56	103	1	637	48				4 ms	Sample Rate	ALIAS	62.5	60db	72							Georgia TAHNALL CO
002	1	1	48	56	103	1									4	8	50%							7 station Gap. BOT * 637 * 900 10 sec All ones.
003	5	1	48	56	103	1											50%							Vibs will be shaking on top of station,
004	9	1	48	56	103	1											50%							Every 4th station through spread, until
005	13	1	48	56	103	1											50%							Vibs reach gap. CDP will remain the
006	17	1	48	56	103	1											50%							same, until vibs reach gap then CDP
007	21	1	48	56	103	1											50%							will advance.
008	25	1	48	56	103	1											50%							4 vibs 1st vib starts 32' past flag 75
009	29	1	48	56	103	1											50%							spacing, 4/25' move ups, 32 sec sweep
010	34	1	48	56	103	1											50%							48 sec Record, 8 sweeps, Alias 31.25 Hz
011	38	1	48	56	103	1											50%							8 -> 32 Hz sweep Freq, 8 ms sample rate.
012	42	1	48	56	103	1											50%							Cable crossing High way at 26-27.
013	47	1	48	56	103	1	637										50%							EOT * 637 Tape MKTs
014	51	1	48	56	103	1	638		wind strip								60db							BOT * 638 * 900 10 sec All ones.
015	51	1	48	56	103	1											50%							
016	52	1	48	56	103	1											50%							
017	53	2	49	57	104	2											50%							
018	54	3	50	58	105	3											50%							
019	55	4	51	59	106	4											50%							
020	56	5	52	60	107	5											50%							
021	57	6	53	61	108	6											50%							
022	58	7	54	62	109	7											50%							
023	59	8	55	63	110	8											50%							
024	60	9	56	64	111	9											50%							
025	61	10	57	65	112	10											50%							
026	62	11	58	66	113	11	638										50%							EOT * 638 Tape MKTs
027	63	12	59	67	114	12	639		wind strip								60db							BOT * 639 * 900 10 sec All ones
028	63	12	59	67	114	12											50%							
029	64	13	60	68	115	13											50%							

5:40

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 1 PAGES

CREW NO. 6234		LINE NO. 17	LEAVE TOWN/CAMP 6:30	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER Clear	TRAIL CONDITIONS Dirt Road	DATE MONTH 2 DAY 8 YEAR 85	CLIENT Cocopp	OP R. Patten	PM B. Cassidy									
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)			C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAMPS or %	PARITY TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. S.W.S.	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
933	Pulse	1	6	sec		639	48											84		SPATT Spread	7 station Gap.
934	EWT	2	"	"																	STA # 115 open Due to Swamp.
934	DRD	4	"	"																	ARRIVE FIELD 7:40
953	Sum TEST	2	"	"																	5 Vib 1st Vib starts 6' Past Flag, 75' Spacing, 41.25' move ups, 32 sec sweep, 48 sec Record, 8 sweeps, Alias 31.25 Hz
960	NRS TEST	2	"	"																	8 → 32 Hz Sweep Freq, 8 ms sample rate.
932	Simianix	1	32	sec	235									4	1	302		12:45			4 Vib 1st Vib starts 32' past Flag
030	wind strip	1	48	sec	2			4 ms sample rate	Alias 62.5.								60db				Vib # 32940 Down, Back Engine Problem.
031	65	14	61	69	116	2															
032	66	15	62	70	117	3															
033	67	16	63	71	118	4															
034	68	17	64	72	119	5															
035	69	18	65	73	120	6															
036	70	19	66	74	121	7	639														EOT # 639 Tape mKts.
037	71	20	67	75	122	8	640	wind strip													Bot # 640 * 900 10 sec All ones.
038	71	20	67	75	122	8		1													
039	72	21	68	76	123	9															
040	73	22	69	77	124	10		1													
041	74	23	70	78	125	11															
042	75	24	71	79	126	12															
043	76	25	72	80	127	13															
044	77	26	73	81	128	14															
045	78	27	74	82	129	15		1													
046	79	28	75	83	130	16															
047	80	29	76	84	131	17		1													
048	81	30	77	85	132	18															
049	82	31	78	86	133	19															
050	83	32	79	87	134	20	640														EOT # 640 Tape mKts.
051	84	33	80	88	135	21	641	wind strip													Bot # 641 * 900 10 sec All ones.
052	84	33	80	88	135	21		1													
053	85	34	81	89	136	22															WENT TO 12 → 32 Hz Sweep Freq.
054	86	35	82	90	137	23															" " " " " "
SKIP	87	36	83	91	138	24															SKIP FROM 87 TO 93 Due to State Highway.

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 2 PAGES

CREW NO. 6834		LINE NO. 17	LEAVE TOWN/CAMP 6:30	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER Clear	TRAIL CONDITIONS Dirt Road	DATE MONTH 2 DAY 9 YEAR 85	CLIENT COCORP	OP. R. Patton	PR. B. Cassidy				
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PANCS 2" K"	PARITY TAPE	MISS SWEEPS	SHOOTING SIZE TDP BDT. NO CAPS U.M.T.	SUR. SOURCES N. UNITS NO. SUNS DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
933	PULSE	1	-	6	sec		641	48					100		SPILT spread	Georgia TANNALL CO. 7 station Gap
934/935	EINT	2	-	"	"											STA# 115 open due to Swamp.
936/939	DRD	4	-	"	"											ARRIVE FIELD 7:40 5 Vib's 1st Vib starts 6' Past Flag, 75' Spacing, 41.25' move ups, 32 sec Sweep
953/954	Sum Test	2	-	"	"											48 sec Record, 8 sweeps, Alias 31.25
960/961	NRS Test	2	-	"	"											48 sec Record, 8 sweeps, Alias 31.25
932	Simiarity	1	-	32	sec	46				10 → 32ms Sweep Freq.	5	1	30%	9:40		10 → 32ms Sweep Freq, 8ms Sample Rate
055	wind strip	1	-	48	sec	15				4 ms sample Rate Alias 62.5			60%			
056	94	43	90	98	145	15								11:35		
057	95	44	91	99	146	16										
058	96	45	92	100	147	17										
059	97	46	93	101	148	18										
060	98	47	94	102	149	19	641									EOT# 641 Tape mktc
061	99	48	95	103	150	20	642		windstrip							BOT# 642 #900 10sec All ones
062	99	48	95	103	150	20										
063	100	49	96	104	151	21										
064	101	50	97	105	152	22										
065	102	51	98	106	153	23										
066	103	52	99	107	154	24										
067	104	53	100	108	155	25										
068	105	54	101	109	156	26										
069	106	55	102	110	157	27										
070	107	56	103	111	158	28										Due to very wet + muddy Road.
071	108	57	104	112	159	29										
072	109	58	105	113	160	30										4 Vib's 1st Vib starts 32' past Flag.
073	110	59	106	114	161	31										
074	111	60	107	115	162	32										
075	112	61	108	116	163	33	642		1							STA# 164 open due to intersection, stacked 1st Half. EOT# 642.
076	113	62	109	117	164	34										SKIP Due to Cross country + River, #113 - #115.
077	116	65	112	120	167	1	643		windstrip moved O.B. to 136-137				60%	1:36		BOT# 643 #900 10sec All ones.
078	116	65	112	120	167	1										stacked last Half. Vib# 15382 Down
079	117	66	113	121	168	2			1							LAST Air Pressure.
078	118	67	114	122	169	3			1							

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 2 OF 2 PAGES

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS D.Y.T Road		DATE MONTH 2 DAY 9 YEAR 85		CLIENT COCOLP		OP R. Patton		PM B. Cassidy	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PAPERS or "K"	PARTY	SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR	TR	TR	TR					SIZE	TOP	BOT.	NO CAPS	U.H.T	N. UNITS	NO. SLIMS	DRIVE						
079	119	68	115	123	170	4	643	48							5	8	508	136					7 station Gap. Vib # 15382 Back on Line.
080	120	69	116	124	171	5											508						
081	121	70	117	125	172	6											508						
082	122	71	118	126	173	7											508						
083	123	72	119	127	174	8											508						
084	124	73	120	128	175	9											508						
085	125	74	121	129	176	10											508						
086	126	75	122	130	177	11											508						
087	127	76	123	131	178	12	643										508						EOT # 643 Tape MKTs.
088	128	77	124	132	179	13	644		windstrip								600h						BOT # 644 #900 10 sec All ones
089	128	77	124	132	179	13											508						
090	129	78	125	133	180	14											508						
091	130	79	126	134	181	15											508						
092	131	80	127	135	182	16											508						
093	132	81	128	136	183	17											508						4:35

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	BY	PH														
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P.	DIGITAL POSITION	DRAIN REEL NO.	GAIN	PARITY	SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS						
		TR	TR	TR	TR					TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T.	N. UNITS	NO. SUMS	DRIVE								
6834	17	6:30																									
933	Pulse	1-6 sec					648	48														199				Georgia TANNALL CO.	
934/935	EINT	2- " "																								7 station Gaps NO Sim on Tape Similarity	
936/939	DRD	4- " "																								Taken through line with camera.	
957/958	Sum Test	2- " "																								5 Vibs, 1st Vib starts 6' past Flag, 75' Spacing, 41.25' move ups, 32 sec Sweep	
960/961	NRS Test	2- " "																								48 sec Record, 8 sweeps, Alias 31.25ms	
932	Similarity	1-32 sec																4	1	30%						10-32ms Sweep Free, 8ms Sample Rate	
141	windstrip	1-48 sec				1																				4ms Sample Rate Alias 62.5	
142	179	128	175	183	230	1											4	8	50%			8:30				STA #164 OPEN Due to Intersection.	
SKIP	180	129	176	184	231	2																				Vib # 23652 Down, Pump Problems.	
143	181	130	177	185	232	3																				4 Vibs 1st Vib starts 32' past Flag.	
144	182	131	178	186	233	4																				STA #222 OPEN Due to Drive way.	
SKIP	183	132	179	187	234	5																				Stacked 1st HALF	
145	184	133	180	188	235	6																				Due to House + Barn.	
SKIP	185	134	181	189	236	7																				Stacked Last HALF.	
146	186	135	182	190	237	8																				Due to House	
147	187	136	183	191	238	9																					
148	188	137	184	192	239	10	648																			50%	
149	189	138	185	193	240	11	649	windstrip																		EOT # 648 Tape mKTS	
150	189	138	185	193	240	11																				BOT # 649 #900 10sec All ones	
SKIP	190	139	186	194	241	12																				50%	
151	191	140	187	195	242	13																				Due to House	
152	192	141	188	196	243	14																				wind picking up Blowing 8 to 12 mph.	
SKIP	193	142	189	197	244	15																				Stacked 1st HALF	
153	194	143	190	198	245	16																				Due to House	
SKIP	195	144	191	199	246	17																				Stacked Last HALF. Light Rain on line.	
154	196	145	192	200	247	18																				Due to House + Barn	
155	197	146	193	201	248	19																				Stacked Last HALF	
																											50%
																											Vib # 15382 Down, Problem with Back mass. Heavy Rain starting to fall, shutting down.

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 2 OF 3 PAGES

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Cloudy + windy		TRAIL CONDITIONS Shoulder		DATE MONTH 2 DAY 12 YEAR 85		CLIENT COCORP		OP R. Patten		PR B. Cassidy			
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN BAWPS or K	PARITY TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SLWS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS			
172	222	171	218	226	273	25	650	48								4	8	50%	218		SPLIT SPIND	Stacked last HALF. EOT # 650 tape MKTs			
173	223	172	219	227	274	26	651		wind strip									60db				BOT # 651 *900 10 sec All ones.			
174	223	172	219	227	274	26			1							4	4	30%	4	4	4	4 Success ONLY. stacked 1st HALF			
SKIP	224	173	220	228	275	27												50%				Due TO House.			
175	225	174	221	229	276	28										5	8	50%				Vib* 23652 Back ON Line.			
176	226	175	222	230	277	29												50%							
SKIP	227	176	223	231	278	30												50%				Due TO NO Shoulder			
177	228	177	224	232	279	31			III							4	8	50%				Vib* 15382 Down, lost Air Pressure			
178	229	178	225	233	280	32										5	8	50%				Vib* 15382 Back ON Line.			
179	230	179	226	234	281	33												50%				Stacked 1st HALF.			
SKIP	231	180	227	235	282	34												50%				Due TO NO Shoulder			
SKIP	232	181	228	236	283	35												50%				" " " "			
SKIP	233	182	229	237	284	36												50%				Due TO House			
180	234	183	230	238	285	37												50%							
181	235	184	231	239	286	38												50%							
182	236	185	232	240	287	39												50%							
183	237	186	233	241	288	40												50%							
184	238	187	234	242	289	41												50%							
185	239	188	235	243	290	42	651		1									50%				EOT # 651 Tape MKTs.			
186	240	189	236	244	291	6	652		wind strip									60db				BOT # 652 *900 10 sec All ones.			
187	240	189	236	244	291	6			1									50%	255			Moved Recorder TO 255-256			
188	241	190	237	245	292	7												50%				Wind 10 TO 15 MPH with Gust TO 18 MPH.			
189	242	191	238	246	293	8												50%							
190	243	192	239	247	294	9												50%							
191	244	193	240	248	295	10												50%				Replaced Bad Cable.			
192	245	194	241	249	296	11												50%				Grader Parked AT STA # 276, Engine Running.			
193	246	195	242	250	297	12			1									50%							
194	247	196	243	251	298	13												50%							
195	248	197	244	252	299	14												50%							
196	249	198	245	253	300	15												50%							
197	250	199	246	254	301	16												50%							
198	251	200	247	255	302	17	652											50%				EOT # 652 Tape MKTs.			

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 2 DAY 13 YEAR 85		CLIENT COCORP		OP R. Patton		SA B. Cassidy	
FILE NO.	STA NO.	STA. NO'S (LIVE GRPS.)				C. O. P. POSITION	DIGITAL REEL NO.	GAIN RAMP	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.M.T.	N. UNITS	NO. SUNS	ORIVE					
231	288	237	284	292	339	28	655	48							5	8	508	281					7 station Gap.
232	289	238	285	293	340	29											508						
233	290	239	286	294	341	30											508						
234	291	240	287	295	342	31											508						
235	292	241	288	296	343	32	655										508						EOT #655 Tape mKts.
236	293	242	289	297	344	33	656		windstrip								600b						BOT #656 *900 10sec All ones.
237	293	242	289	297	344	33											508						
238	294	243	290	298	345	34											508						Cable crossing Highway #286 AT STA #343
239	295	244	291	299	346	35											508						
240	296	245	292	300	347	36											508						
241	297	246	293	301	348	37											508						
242	298	247	294	302	349	38											508						
243	299	248	295	303	350	39											508						Stacked last HALF.
244	300	249	296	304	351	40											508						From 350 to 360 Town of Manassas.
245	301	250	297	305	352	41											508						
246	302	251	298	306	353	42											508						
247	303	252	299	307	354	26											508	298					Moved Recorder to 298-299.
248	304	253	300	308	355	27	656										508						EOT #656 Tape mKts
249	305	254	301	309	356	28	657										600b						BOT #657 *900 10sec All ones.
250	305	254	301	309	356	28											508						
251	306	255	302	310	357	29											508						
252	307	256	303	311	358	30											508						
253	308	257	304	312	359	31											508						
254	309	258	305	313	360	32											508						
255	310	259	306	314	361	33											508						
256	311	260	307	315	362	34											508						
257	312	261	308	316	363	35											508						5:00

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL PR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OP	PR											
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS				
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. UNITS	NO. SUMS	DRIVE						
281	337	286	333	341	388	27	659	48		1							5	8	502	331		SPLIT spread	7 station Gap, STA # 388 open Due to Bridge.	
282	338	287	334	342	389	28	659												502				EOT # 659 Tape MKTS.	
SKIP	339	288	335	343	390	29													SKIP				Due to House	
SKIP	340	289	336	344	391	30													SKIP				" " "	
283	341	290	337	345	392	31	660		windstrip										60db				ROT # 660 #900 10 sec All ones.	
284	341	290	337	345	392	31													502				Stacked last HALF.	
285	342	291	338	346	393	32													502				Stacked 1st HALF.	
286	343	292	339	347	394	33				1									502				Stacked last HALF. Vibs NOW ON Shoulder.	
287	344	293	340	348	395	34													502					
288	345	294	341	349	396	35													502				Cable Crossing Highway At #396-397	
289	346	295	342	350	397	36													502					
290	347	296	343	351	398	37													502					
291	348	297	344	352	399	38													502				Stacked 1st HALF.	
SKIP	349	298	345	353	400	39													SKIP				From 349-366 Due to TOWN OF MANASSAS.	
292	367	316	363	371	418	20													502	368			Moved Recorder to 368-369	
293	368	317	364	372	419	21													302				Low Drive Due to Road conditions, making very deep	
294	369	318	365	373	420	22				1									302				holes in soft sandy Road.	
295	370	319	366	374	421	23	660												302				EOT # 660 Tape MKTS	
296	371	320	367	375	422	24	661		windstrip										60db				ROT # 661 #900 10 sec All ones.	
297	371	320	367	375	422	24													302					
298	372	321	368	376	423	25													302					
299	373	322	369	377	424	26													302					
300	374	323	370	378	425	27													302					
301	375	324	371	379	426	28													302					
SKIP	376	325	372	380	427	29													SKIP					Due to House
302	377	326	373	381	428	30													302					Stacked last HALF
303	378	327	374	382	429	31													302					
304	379	328	375	383	430	32													302					Stacked 1st HALF
SKIP	380	329	376	384	431	33													SKIP					Due to House
305	381	330	377	385	432	34													302					Stacked 1st HALF.
SKIP	382	331	378	386	433	35													SKIP					Due to House
306	383	332	379	387	434	36													502					High Drive.

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO.	LINE NO.	LEAVE TOWN/CAMP	ARRIVE TOWN/CAMP	TOTAL TR. TIME	DOWN TIME	WEATHER	TRAIL CONDITIONS	DATE MONTH	DAY	YEAR	CLIENT	OP.	PR.							
6834	17	6:30				Clear	Dirt Road	2	15	85	COCORP	R. Patton	B. Cassidy							
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARTY	SHOOTING				SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS
933	Pulse	1	6	sec		662	48										410		SPRT spread	George A. TATTNALL + EVANS CO.
934/935	EINT	2	"	"																7 station Gap. NO SIM ON TAPE similarity
936/939	DRD	4	"	"																Taken through line with camera
953/954	Sum Test	2	"	"																ARRIVE FIELD 7:40
960/961	NRS Test	2	"	"																5 Vib 1st Vib starts 6' past Flag, 75' spacing, 41.25' moveups, 32 sec sweep, 48 sec Record, 8 sweeps, ALIAS 31.25
932	Similarity	1	32	sec																10-932 sweep Freq, 8ms sample Rate.
313	Windstrip	1	48	sec	2			4 ms	Sample Rate	ALIAS 62.5										STA #388 open Due to Bridge
314	391	340	327	395	442	2														Stacked 1st HALF. STA #343 Fall, AT HTW 280.
SKIP	392	341	388	396	443	3														SKIP Due to House From #350-360 TOWN OF MANASSAS.
SKIP	393	342	329	397	444	4														SKIP " " " Cable Crossing HT wks AT 358+396-397+406.
315	394	343	390	398	445	5														Stacked Last HALF.
316	395	344	391	399	446	6														Stacked 1st HALF.
SKIP	396	345	392	400	447	7														SKIP From 396-398 Due to Houses.
317	399	348	395	403	450	10														Stacked Last HALF.
318	400	349	396	404	451	11														
319	401	350	397	405	452	12	662													EOT #662 Tape MKTs.
320	402	351	398	406	453	13	663	Windstrip												BOT #663 #900 10 sec All ones.
321	402	351	398	406	453	13														
322	403	352	399	407	454	14														
323	404	353	400	408	455	15														
324	405	354	401	409	456	16														
SKIP	406	355	402	410	457	17														Due to Intersection.
325	407	356	403	411	458	18														Stacked Last HALF.
326	408	357	404	412	459	19														Stacked Last HALF.
327	409	358	405	413	460	20														
328	410	359	406	414	461	21														
SKIP	411	360	407	415	462	22														SKIP From 411-413 Due to Houses.
329	414	363	410	418	465	25														Stacked Last HALF, Replaced Bad Cable.
330	415	364	411	419	466	26														
331	416	365	412	420	467	27														
332	417	366	413	421	468	28	663													EOT #663 Tape MKTs
333	418	367	414	422	469	29	664	Windstrip												BOT #664 #900 10 sec All ones.

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dist road		DATE MONTH 2 DAY 15 YEAR 85		CLIENT COCORP		OP R. Patten		CN B. Cassidy		
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN RANGE OR "K"	PARITY		SHOOTING				SUIR SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS			
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H.T.	N. UNITS	NO. SUNS					DRIVE		
334	418	367	414	422	469	29	664	48							5	8	50%	410					7 Station Gap	
335	419	368	415	423	470	30									4	8	50%						Vib # 15382 Down, Lost Air Pressure	
SKIP	420	369	416	424	471	31											50%						Due TO House	
336	421	370	417	425	472	32											30%						Stacked Last HALF.	
337	422	371	418	426	473	33											50%							
338	423	372	419	427	474	34											50%							
SKIP	424	373	420	428	475	35											50%						Due TO WATER Well + INTERSECTION.	
339	425	374	421	429	476	36								5	8	50%							Stacked Last HALF. Vib # 15382 Back TO	
340	426	375	422	430	477	37									4	30%							4 Sweeps only, 1st HALF.	
341	427	376	423	431	478	38									8	30%							Stacked Last HALF.	
342	428	377	424	432	479	39											50%							
343	429	378	425	433	480	40											50%							
344	430	379	426	434	481	41	664										30%						EOT # 664 Tape MKTS	
SKIP	431	380	427	435	482	42											50%						Due TO House	
SKIP	432	381	428	436	483	18											50%						" " " Moved Recorder TO 435-436	
345	433	382	429	437	484	19	665	windstrip									60%						Bot # 665 * 900 10 sec All ONES.	
346	433	382	429	437	484	19											30%						Stacked Last HALF	
347	434	383	430	438	485	20											50%							
348	435	384	431	439	486	21											50%							
349	436	385	432	440	487	22											50%							
350	437	386	433	441	488	23											50%							
SKIP	438	387	434	442	489	24											50%							
SKIP	439	388	435	443	490	25											50%							
351	440	389	436	444	491	26											50%							
352	441	390	437	445	492	27											30%						Stacked 1st HALF	
SKIP	442	391	438	446	493	28											50%						Due TO House	
353	443	392	439	447	494	29											50%							
SKIP	444	393	440	448	495	30											50%						Due TO House	
354	445	394	441	449	496	31											50%							
355	446	395	442	450	497	32	665										50%						Stacked 1st HALF EOT # 665 Tape MKTS.	
																							4:00	STA # 497 open Due TO Bridge

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Shouider		DATE MONTH 2 DAY 18 YEAR 85		CLIENT Cocorp		OP R. Patton		PM B. Cassidy	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN PARALLEL	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS	
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BDT.	NO CAPS	U. H.T.	N. UNITS	NO. SUMS	DRIVE					
403	501	450	497	505	552	18	669	48								5	8	508	504				7 station Gap
404	502	451	498	506	553	19												508					
405	503	452	499	507	554	20	669		1									508					EOT # 669 Tape MKTs.
406	504	453	500	508	555	21	670		windstrip									60db					BOT # 670 *900 10 sec All ones
407	504	453	500	508	555	21												508					
408	505	454	501	509	556	22												508					
409	506	455	502	510	557	23												508					
410	507	456	503	511	558	24												508					
411	508	457	504	512	559	25												508					
412	509	458	505	513	560	26												508					Men working on Cay AT STA # 560
413	510	459	506	514	561	27												508	5:00				

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Partly cloudy		TRAIL CONDITIONS Shoulder		DATE MONTH 2 DAY 19 YEAR 85		CLIENT COCOLP		OB. R. Patten		BY B. Cassidy	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS		
		TR	TR	TR	TR					TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. I.	N. UNITS					NO. S/LMS	DRIVE
462	572	521	568	576	623	21	674	48								5	8	302	572				7 STATION Gap. Vibs on LEFT side of Road.
463	573	522	569	577	624	22												502					
464	574	523	570	578	625	23												502					Stacked 1st Half.
SKIP	575	524	571	579	626	24												502					SKIP From 575-577 Due to Houses + Bridge.
465	578	527	574	582	629	27												502					Stacked Last Half
466	579	528	575	583	630	28	674				1							502	5:00				EOT * 674 Tape mts.

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 2 OF 2 PAGES

GEO-252.D		CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Cloudy		TRAIL CONDITIONS Dirt Road		DATE MONTH 2 DAY 20 YEAR 85		CLIENT COCORP		BY R. Patton		BY B. Cassidy	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P.	DIGITAL POSITION	UAIN REEL NO.	PARITY	SHOOTING	SIZE	TOP	BOT.	NO CAPS	U.H.T.	N. LIMITS	NO. SURS	DRIVE	INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS			
487	618	567	614	622	669	39	676	48		EOT # 676						5	8	302	600		SPLIT SPREAD	7 station gap. Stacked Last HALF.			
SKIP	619	568	615	623	670	40																SKIP From 619-621 Due TO Houses.			
488	622	571	618	626	673	3	677		wind strip													BOT # 677 * 900 10 sec. All ones.			
489	622	571	618	626	673	3												302	640			stacked Last HALF. Moved Recorder TO 640-641			
490	623	572	619	627	674	4												508							
491	624	573	620	628	675	5												508							
492	625	574	621	629	676	6												508							
493	626	575	622	630	677	7												508							
494	627	576	623	631	678	8												508							
495	628	577	624	632	679	9												508				From 679-682 Man Plowing with tractor.			
496	629	578	625	633	680	10												508							
497	630	579	626	634	681	11												508							
498	631	580	627	635	682	12												508							
499	632	581	628	636	683	13												508							
500	633	582	629	637	684	14	677										4	508				4 Sweeps only. EOT # 677 Tape mKts			
SKIP	634	583	630	638	685	15																SKIP From 634-640 Due TO STATE H.T. way # 301.			
501	641	590	637	645	692	22	678		wind strip									600b				BOT # 678 * 900 10 sec. All ones.			
502	641	590	637	645	692	22			1								8	508							
503	642	591	638	646	693	23												508				Lot OF Traffic Along Line.			
504	643	592	639	647	694	24												508							
505	644	593	640	648	695	25												508							
506	645	594	641	649	696	26											4	508				4 Sweeps ONLY 1st HALF.			
507	646	595	642	650	697	27											8	508							
508	647	596	643	651	698	28												508							
509	648	597	644	652	699	29												508				stacked 1st HALF			
510	649	598	645	653	700	30												508							
SKIP	650	599	646	654	701	31																SKIP From 650-657 Due TO Bridge, Church + Cemetery.			
511	658	607	654	662	709	39												308							
512	659	608	655	663	710	40												508							
513	660	609	656	664	711	41	678											508		4:15		EOT # 678 Tape mKts			

OBSERVER REPORT PETTY-RAY GEOPHYSICAL

PAGE 1 OF 2 PAGES

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP 7:00		TOTAL TR. TIME		DOWN TIME		WEATHER Partly Cloudy		TRAIL CONDITIONS DIRT ROAD		DATE MONTH 2 DAY 21 YEAR 85		CLIENT COLCORP		OP R. Patton		PM B. Cassidy	
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY	SHOOTING	SUR. SOURCES				INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS					
		TR	TR	TR	TR						N. UNITS	NO. SWS	DRIVE	NO. CAPS					U. H. T.				
933	Pulse	1	6	sec		679	48							681			Georgia BULLOCH CO.						
934/935	EINT	2	"	"													7 station gaps BOT # 679 * 900 10sec All ones						
936/939	DRD	4	"	"													Similarity taken through line with camera.						
953/954	Sum TEST	2	"	"													ARRIVE FIELD 7:15						
960/961	NRS TEST	2	"	"													5 Vib 1st Vib starts 6' past Flag, 75' spacing, 41.25 move ups, 32 sec sweep, 48 sec Record, 8 sweeps, Alias 31.25 Hz.						
932	Similarity	1	32	sec													10 → 32 Hz Sweep Fred, 8ms Sample Rate.						
514	wind strip	1	48	sec	1			4 ms sample rate	Alias	62.5							STA # 636 + 649 open due to bridge.						
515	661	610	657	665	712	1											STA # 662 open due to inter section.						
516	662	611	658	666	713	2											Vib # 15382 Down, Oil leak.						
517	663	612	659	667	714	3											4 Vib, 1st Vib starts 32' past Flag.						
518	664	613	660	668	715	4											4 Vib 4 sweeps ONLY 1st HALF. LOT OF TRAFFIC ALONG LINE.						
519	665	614	661	669	716	5											SKIP FROM 665 - 670 DUE TO HOUSES.						
520	671	620	667	675	722	11											Stacked LAST HALF.						
521	672	621	668	676	723	12											Line runs along HIway # 301 From 634 - 640						
522	673	622	669	677	724	13											Line crossing Black top AT 700 - 701						
523	674	623	670	678	725	14											Due to water well.						
524	675	624	671	679	726	15											Stacked LAST HALF.						
525	676	625	672	680	727	16											4 Vib 4 sweeps ONLY 1st HALF. Cable across busy HIway AT 728						
526	677	626	673	681	728	17											Due to House						
527	678	627	674	682	729	18											" " "						
528	679	628	675	683	730	19	679										EOT # 679 Tape MKTs.						
529	680	629	676	684	731	20	680	wind strip									BOT # 680 * 900 10sec All ones						
530	681	630	677	685	732	21																	
531	682	631	678	686	733	22											Vib # 15382 Back on line.						
532	683	632	679	687	734	23																	
533	684	633	680	688	735	24											Due to House						
534	685	634	681	689	736	25											Stacked LAST HALF.						
535	686	635	682	690	737	26											Due to House + Barn						
536	687	636	683	691	738	27											" " "						
537	688	637	684	692	739	28											Stacked LAST HALF.						
538	689	638	685	693	740	29											Man working with Tractor AT 679 - 680						

CREW NO. 6834		LINE NO. 17		LEAVE TOWN/CAMP		ARRIVE TOWN/CAMP		TOTAL TR. TIME		DOWN TIME		WEATHER Clear		TRAIL CONDITIONS Dirt Road		DATE MONTH 2 DAY 21 YEAR 85		CLIENT COCORP		OPR R. Patton		PH B. Cassidy			
FILE NO.	STA. NO.	STA. NO'S (LIVE GRPS.)				C. D. P. POSITION	DIGITAL REEL NO.	GAIN	PARITY		SHOOTING					SUR. SOURCES			INST. SET UP	TIME DAY	STA. OFFSET TO LINE	REMARKS			
		TR	TR	TR	TR				TAPE	MEMORY	SIZE	TOP	BOT.	NO CAPS	U. H. T	N. UNITS	NO. SUNS	DRIVE							
533	690	639	626	694	741	30	680	48								5	8	50%	681					7 station Gap.	
534	691	640	687	695	742	31												50%							
535	692	641	688	696	743	32												50%							
536	693	642	689	697	744	33												50%							
537	694	643	690	698	745	34	680											50%						EOT # 680 Tape mkt.	
538	695	644	691	699	746	35	681		WIND	STICP								60db						BOT # 681 # 900 10 sec All ones	
539	695	644	691	699	746	35												50%							
540	696	645	692	700	747	36												50%							
541	697	646	693	701	748	37												50%							
542	698	647	694	702	749	38									4	30%	4 Sweeps only							1st HALF.	
SKIP	699	648	696	703	750	39																		SKIP FROM 699-703 Due to Houses.	
543	704	653	700	708	755	37									8	30%								Stacked Last HALF.	
544	705	654	701	709	756	38												30%						Stacked 1st HALF.	
545	706	655	702	710	757	39	681								4	30%	4 Sweeps only							Stacked. EOT # 681 Tape mkt.	
																		1:15							EOL # 17. Picking up Rest of Line.