

SAND DUNE EXPERIMENT
VOLUME OF SAND ACCUMULATED

Type of fence material	:	:	:	VOLUME OF SAND ACCUMULATED (CUBIC YARDS/FOOT) (TOTAL)								
	:	:	:	DATE OF SURVEY								
	:	Sta.	:	Jun '69	Dec '69	Apr '70	Sep '70	Jan '71	Mar '71	Jul '71	Dec '71	Apr '72
	:	Section :	#									
SNOW PICKET SN 1 & SN 2		<u>SOUTH</u> (SN 2)	1+33 2+67	0.05	2.54	2.72	3.32	3.24	4.39	4.45	7.34	5.73
		(SN 1)	5+33 6+67	0.25	2.28	2.30	4.07	4.25	5.83	6.95	8.43	6.02
		(SN 2)	13+33 14+67	1.02	2.73	3.25	4.57	6.22	5.78	7.27	10.83	11.02
		<u>NORTH</u> (SN 2)	1+33 2+67	1.01	2.73	2.41	4.89	5.25	4.38	6.49	7.73	6.23
		(SN 1)	13+33 14+67	1.85	3.17	1.99	4.99	4.95	7.49	6.62	9.44	8.97
		(SN 2)	21+33 22+67	0.71	1.94	1.09	3.95	4.60	3.50	6.13	8.69	7.11
		(SN 1)	33+33 34+67	1.35	2.96	2.81	3.88	6.77	6.45	6.55	9.67	8.83
		(SN 2)	45+33 46+67	1.25	3.62	2.69	4.21	5.21	4.47	8.30	9.93	9.74

Type of fence material	:	:	:	:	VOLUME OF SAND ACCUMULATED (CUBIC YARDS/FOOT) (TOTAL)
Station #	:	:	:	:	DATE OF SURVEY
Section	:	:	:	:	Dec '72 : May '73 :
SNOW PICKET SN 1 & SN 2	SOUTH (SN 2)	1+33 2+67	6.84	5.54	
	(SN 1)	5+33 6+67	9.76	7.90	
	(SN 2)	13+33 14+67	10.98	11.81	
	NORTH (SN 2)	1+33 2+67	7.95	8.73	
	(SN 1)	13+33 14+67	12.79	12.36	
	(SN 2)	21+33 22+67	12.67	9.23	
	(SN 1)	33+33 34+67	14.79	11.87	
	(SN 2)	45+33 46+67	(1)	---	

NOTE: (1) Section destroyed by beach road access

Type of fence material	:	:	:	VOLUME OF SAND ACCUMULATED (CUBIC YARDS/FOOT) (TOTAL)								
	:	:	:	DATE OF SURVEY								
	:	Sta.	:	Jun '69	Dec '69	Apr '70	Sep '70	Jan '71	Mar '71	Jul '71	Dec '71	Apr '72
	Section	#	:									
NYLON SCOTCH KNIT FABRIC (FN)	SOUTH	9+33	:	0.42	2.88	1.70	4.34	4.30	4.13	5.74	6.84	7.84
		10+67	:									
		17+33	:	0.82	1.76	1.52	2.43		3.16	3.29	6.66	6.52
		18+67	:									
	NORTH	9+33	:	1.36	1.72	1.84	4.68	4.96	5.51	6.42	7.04	10.37
		10+67	:									
		29+33	:	1.19	1.55	1.32	3.10	2.66	4.50	5.31	8.80	6.89
		30+67	:									
SARAN 8 x 8 FABRIC (FS)	NORTH	17+33	:	1.56	2.76	2.97	4.82	7.32	9.66	9.06	12.51	10.59
		18+67	:									
		37+33	:	0.33	1.44	1.36	3.05	4.50	4.73	6.32	7.93	7.75
		38+67	:									
SEA- OATS	NORTH	5+33	:	-1.462	2.228	4.02	5.89	7.45	7.18	8.13	10.83	11.78
		6+67	:									
		25+33	:	0.279	0.673	0.59	1.82	3.37	(BULLDOZED)	--	1.06	
		26+67	:									
		41+33	:	0.878	1.793	0.38	2.02	2.47	(BULLDOZED)	--	--	

Feb 69
Cotton accumulated
with 324000

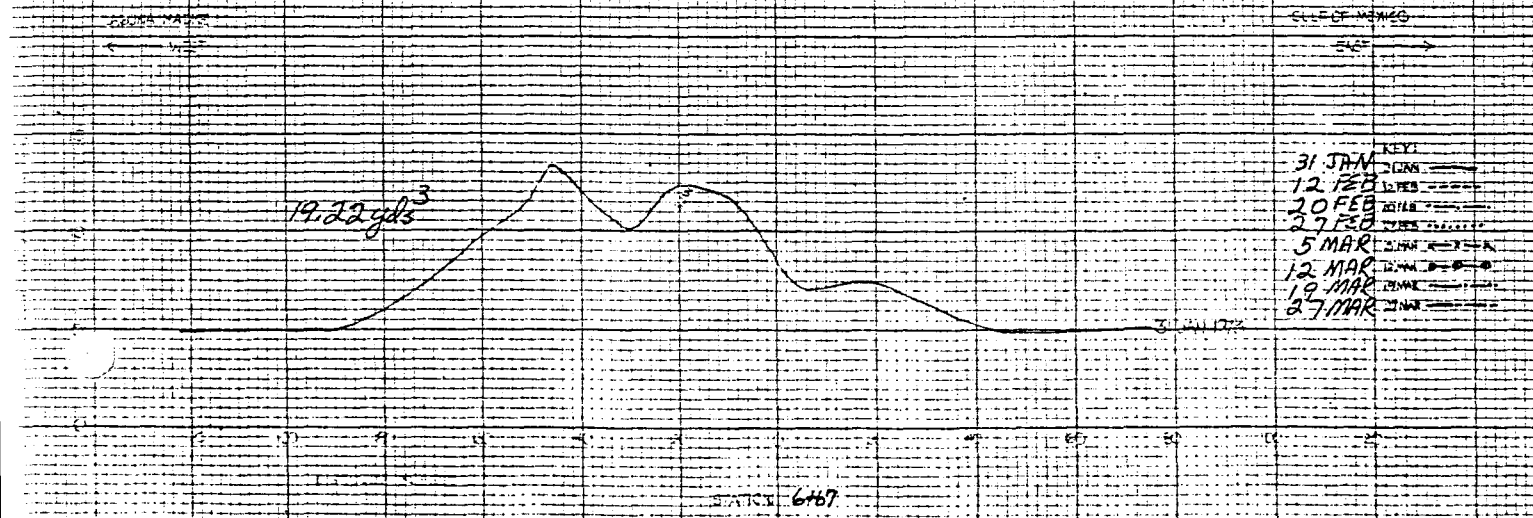
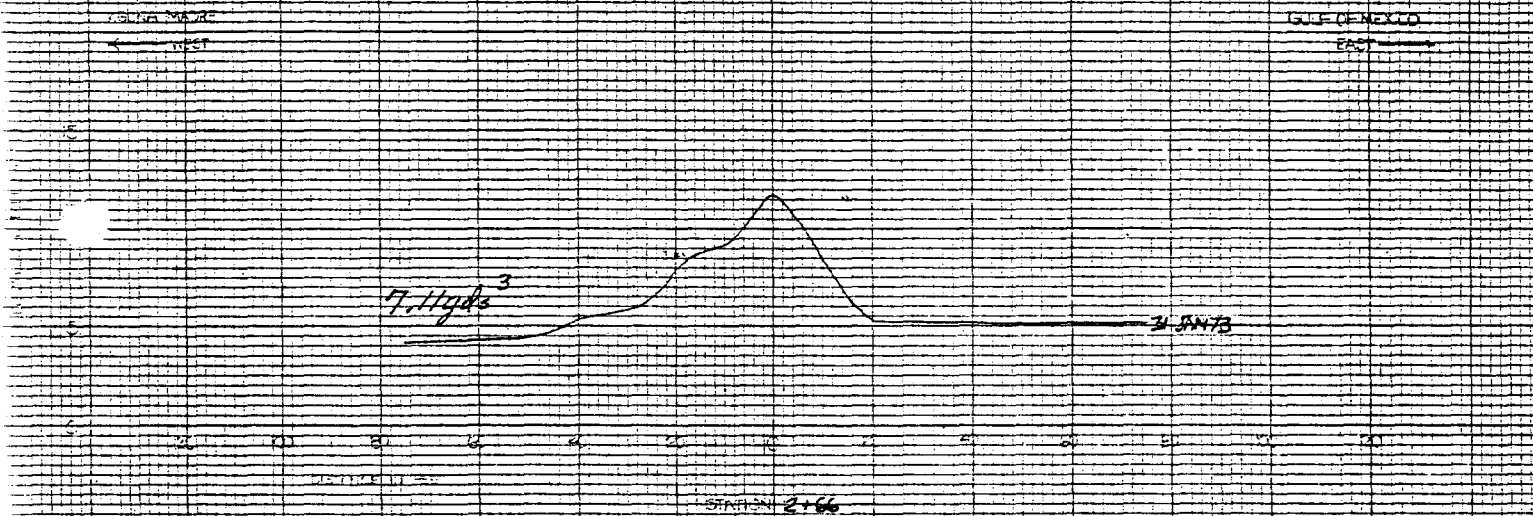
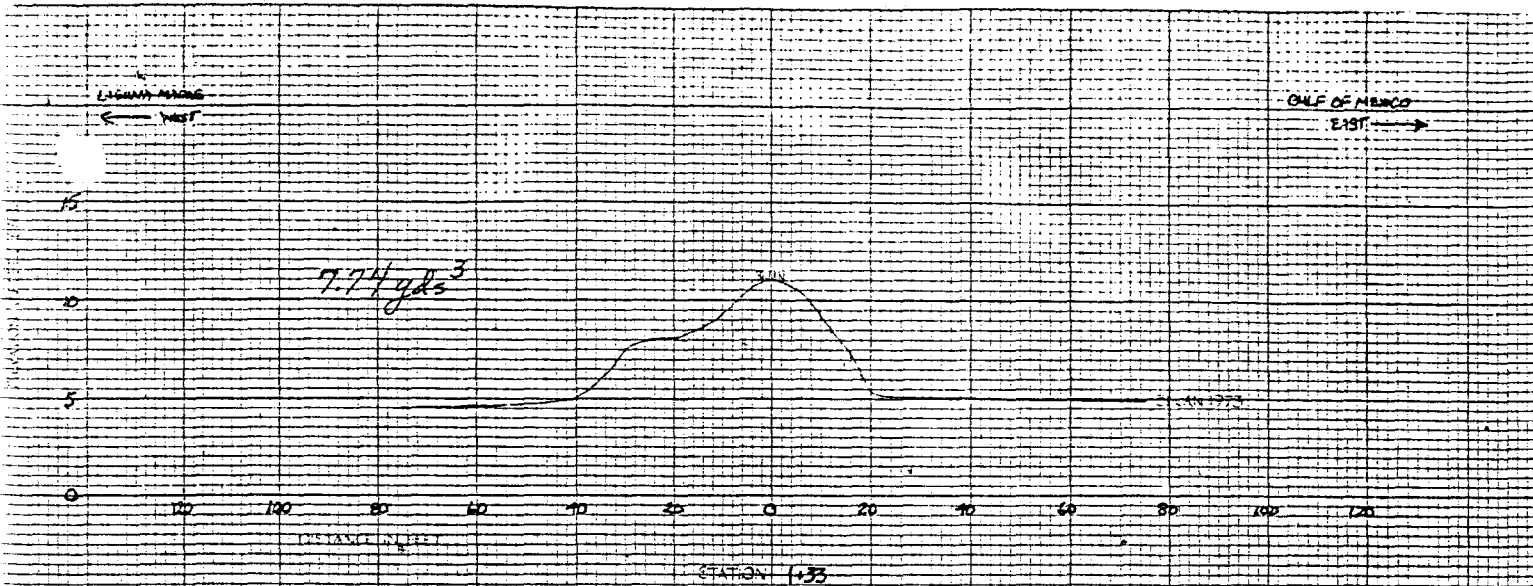
Type of fence material	Section	Sta. #	VOLUME OF SAND ACCUMULATED (CUBIC YARDS/FOOT) (TOTAL)		DATE OF SURVEY
			Dec '72	May '73	
NYLON SCOTCH KNIT FABRIC (FN)	SOUTH	9+33	6.35	8.61	
		10+67			
	NORTH	17+33	10.69	11.27	
		18+67			
		9+33	10.24	10.52	
		10+67			
SARAN 8 x 8 FABRIC (FS)	NORTH	29+33	13.48	10.00	
		30+67			
	NORTH	17+33	16.75	12.65	
		18+67			
		37+33	10.34	10.87	
		38+67			
SEA- OATS	NORTH	5+33	15.88	16.92	
		6+67			
	NORTH	25+33	5.95	4.83	
		26+67			
		41+33	7.57	7.87	

[illegible]

NOTE: (0.000) indicates a loss since last survey

Type of fence material	Section:	Sta. #	VOLUME OF SAND ACCUMULATED (CUBIC YARDS/FOOT) (TOTAL)		DATE OF SURVEY	
			Dec '72:	May '73 :		
CAMOUFLAGE NETTING	<u>NORTH</u> (4')	48+33 49+33	4.77	(2)		
	(6')	50+67 51+67	6.66	(2)		
MIDDLE SECTION 2' HIGH PICKET FENCE	<u>MIDDLE</u> #2	5+33 6+67 10+67	3.52 6.99	6.79 6.98		
BLACK POLY-PROPYLENE (Nov 1971)	<u>NORTH</u>	53+33 54+67	2.07	6.39		
PARALLEL 2' HIGH PICKET FENCES (Apr 1972)	<u>NEW</u> #3	1+33 2+67	3.06	3.10		
PARALLEL 2' HIGH PICKET FENCES (Apr 1972)	<u>OLD</u> <u>SPARTINA</u> <u>PASS</u> #4	1+33 2+67	4.24	3.70		

NOTE: (2) Material deteriorated, fence removed.



LAND AREA

GULF OF MEXICO

517

7.85 yds³

2 FEB 1973

STATION 1133

LAND AREA

GULF OF MEXICO

EAST

8.00 yds³

12 FEB

STATION 1267

2 FEB

LAND AREA

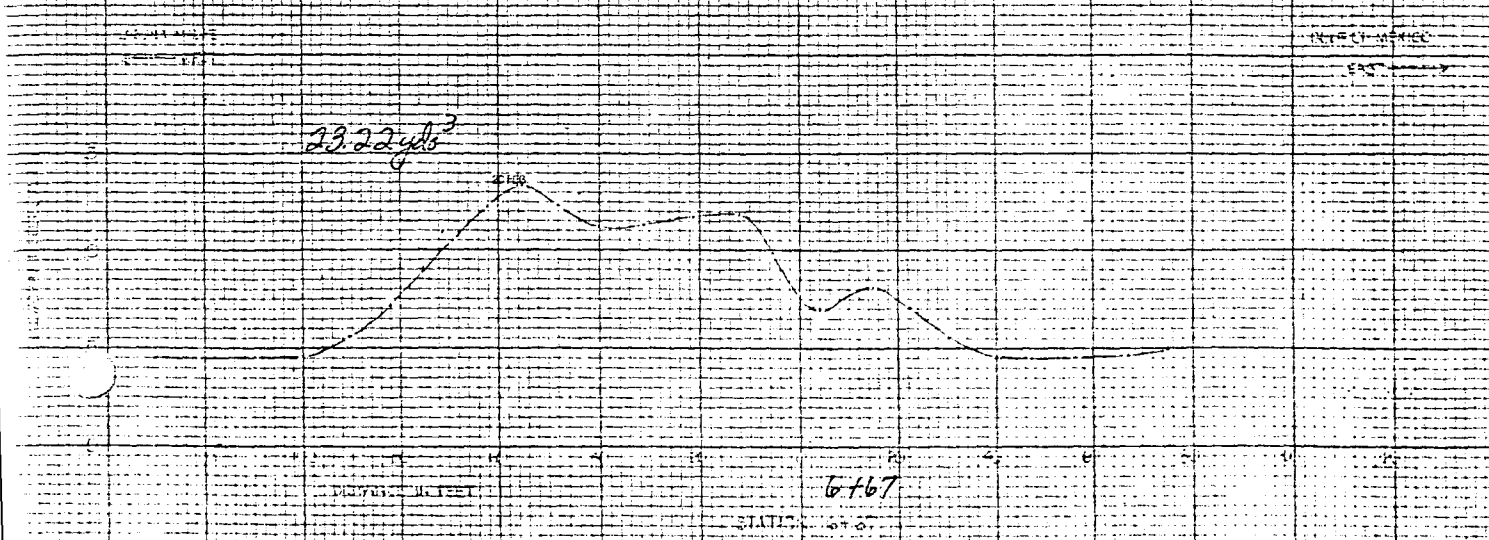
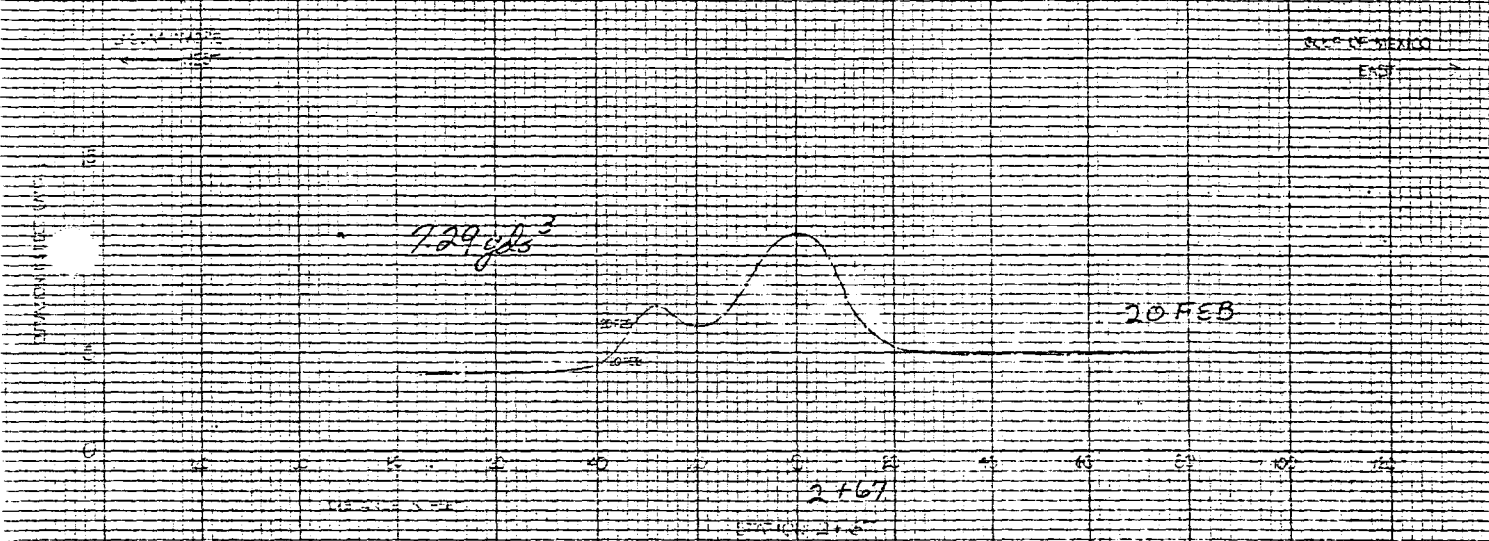
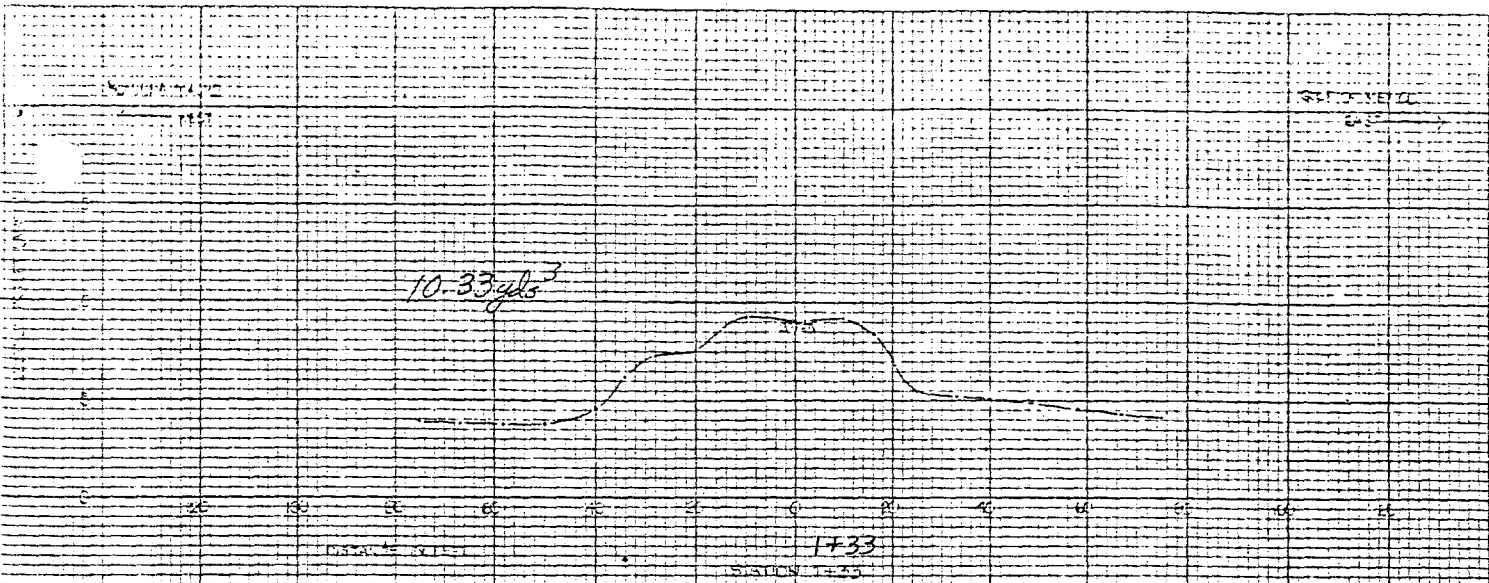
GULF OF MEXICO

EAST

20.77 yds³

STATION 6767

5 FEB 67



10.07 yds³

Max

STATION 1.33

7.14 yds³

27 FEB

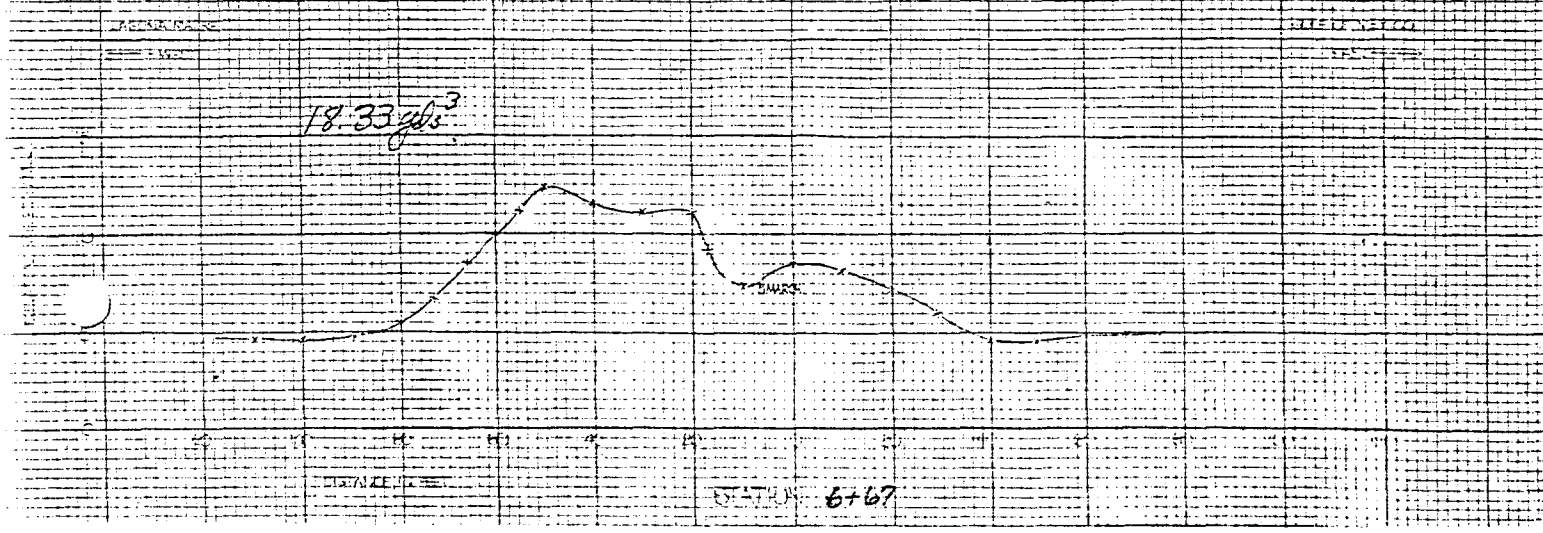
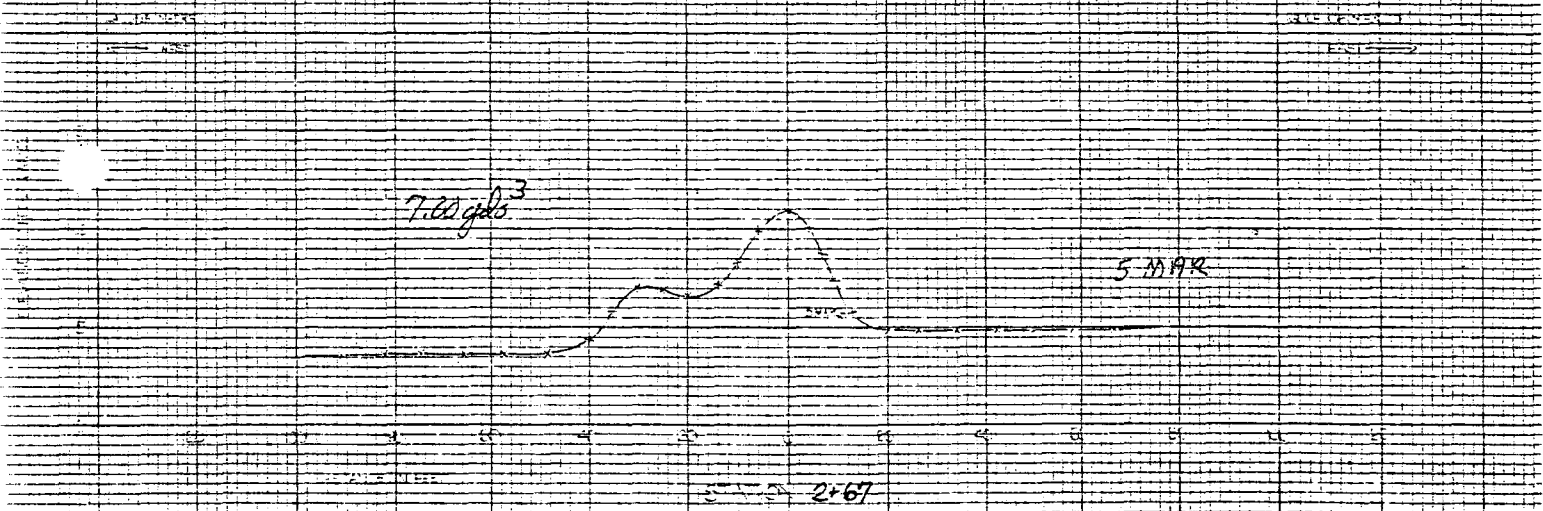
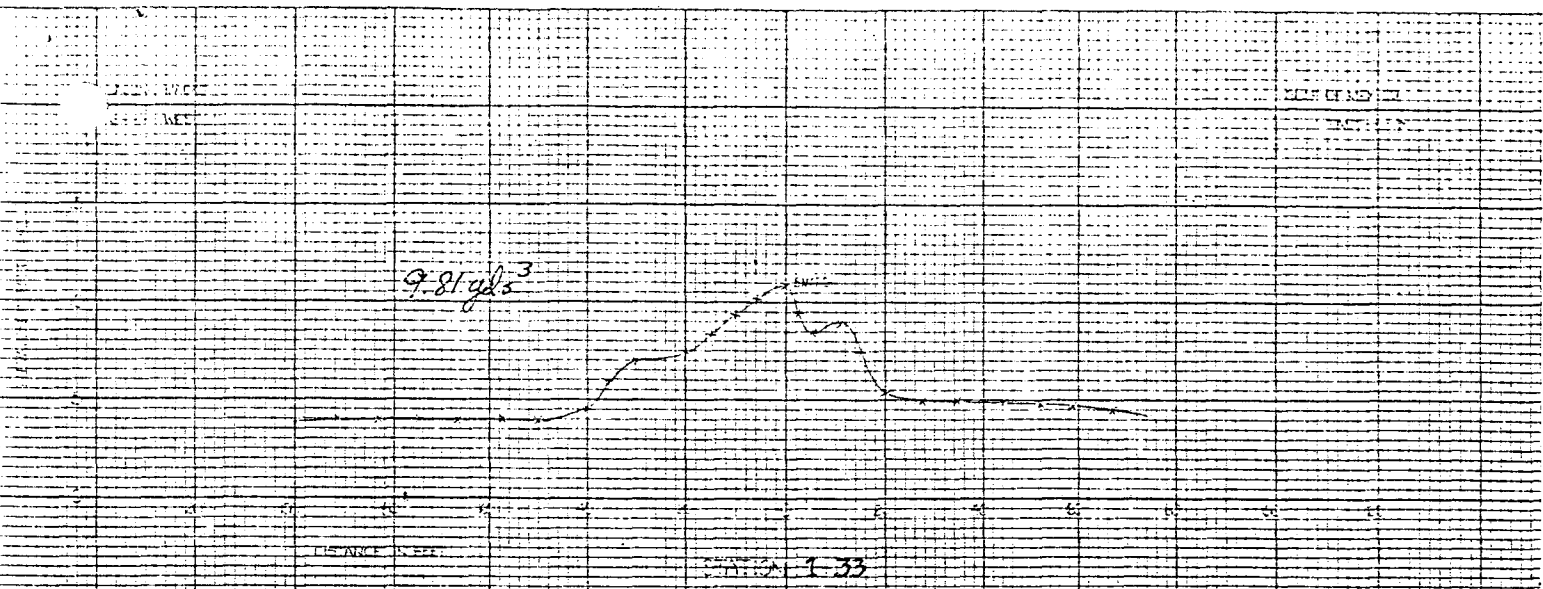
27 FEB

STATION 2.67

17.33 yds³

27 FEB

STATION 6.67



7.40 yds³

STATION 1433

7.00 yds³

12 MAR

STATION 2467

19.81 yds³

STATION 6467

9.59 yds³

DISTANCE FEET

STATION 7133

7.85 yds³

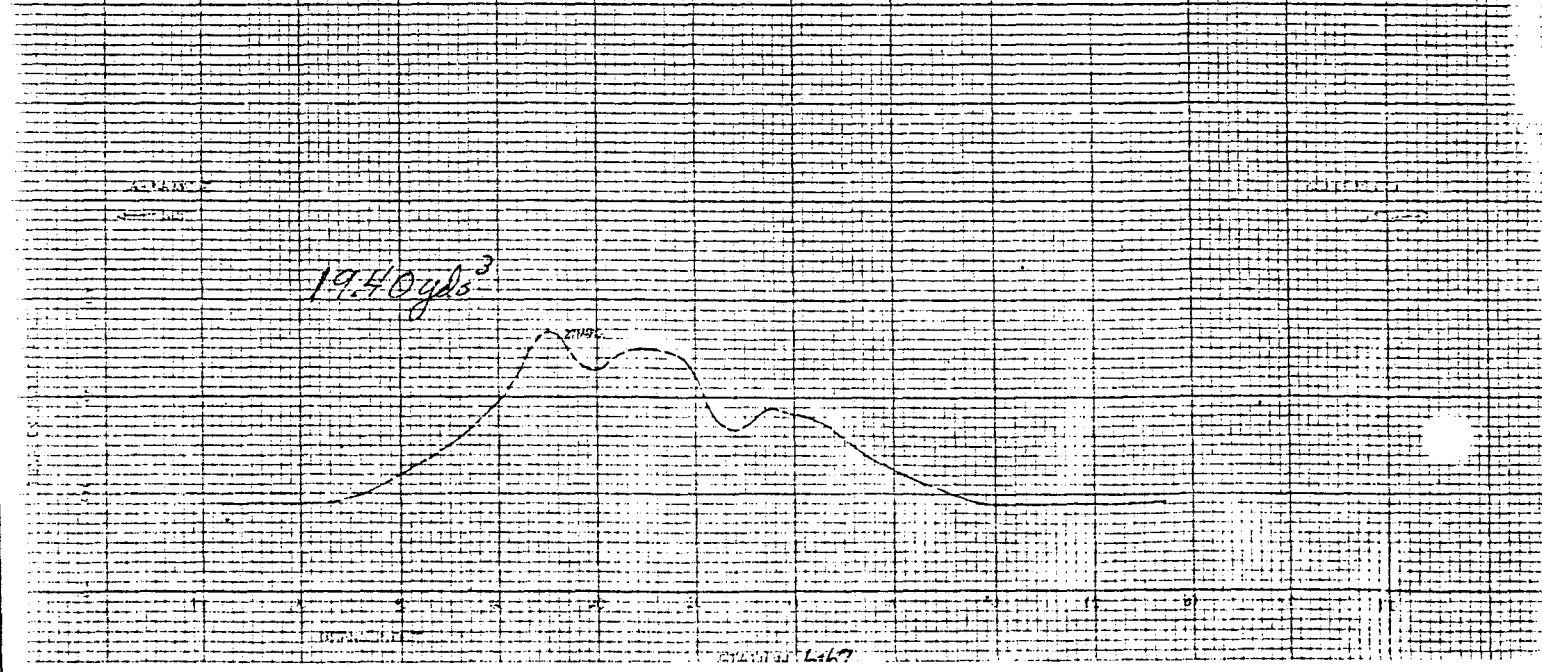
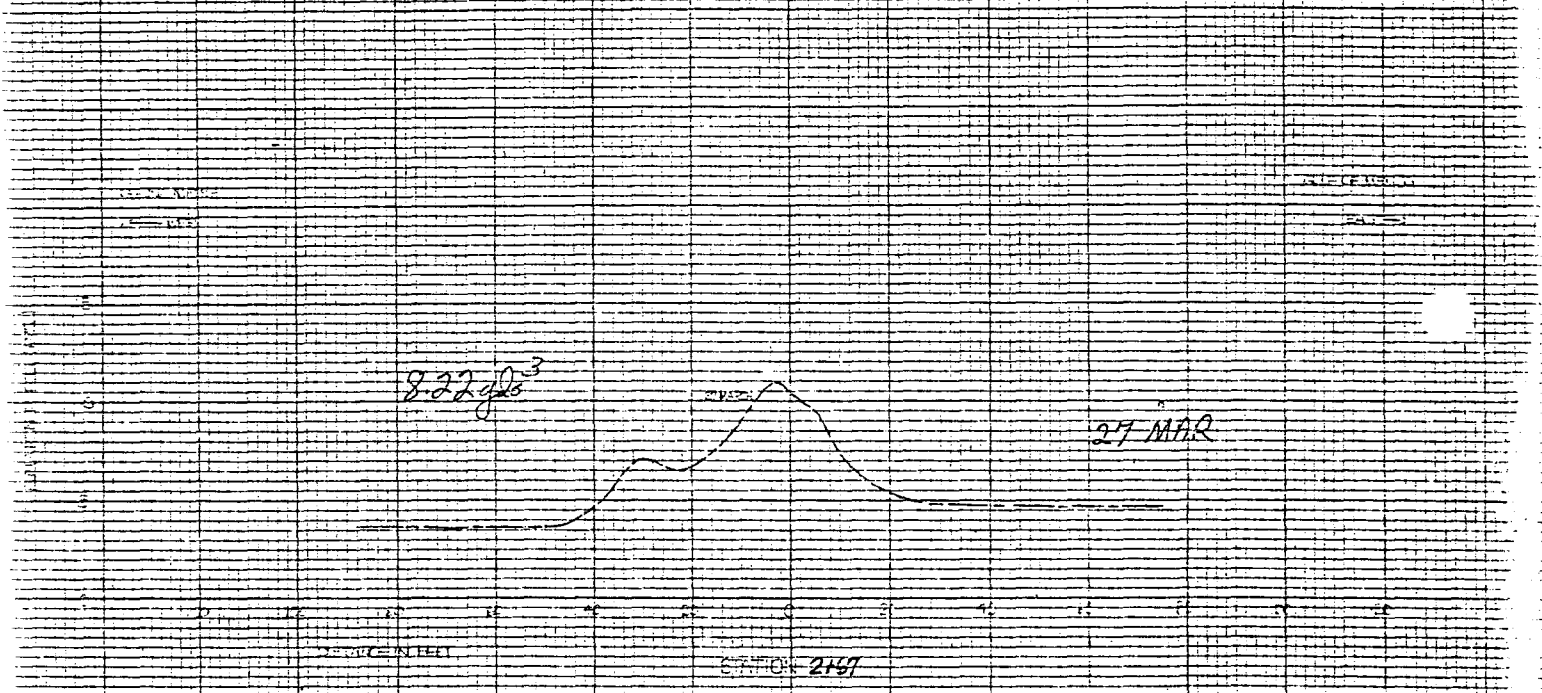
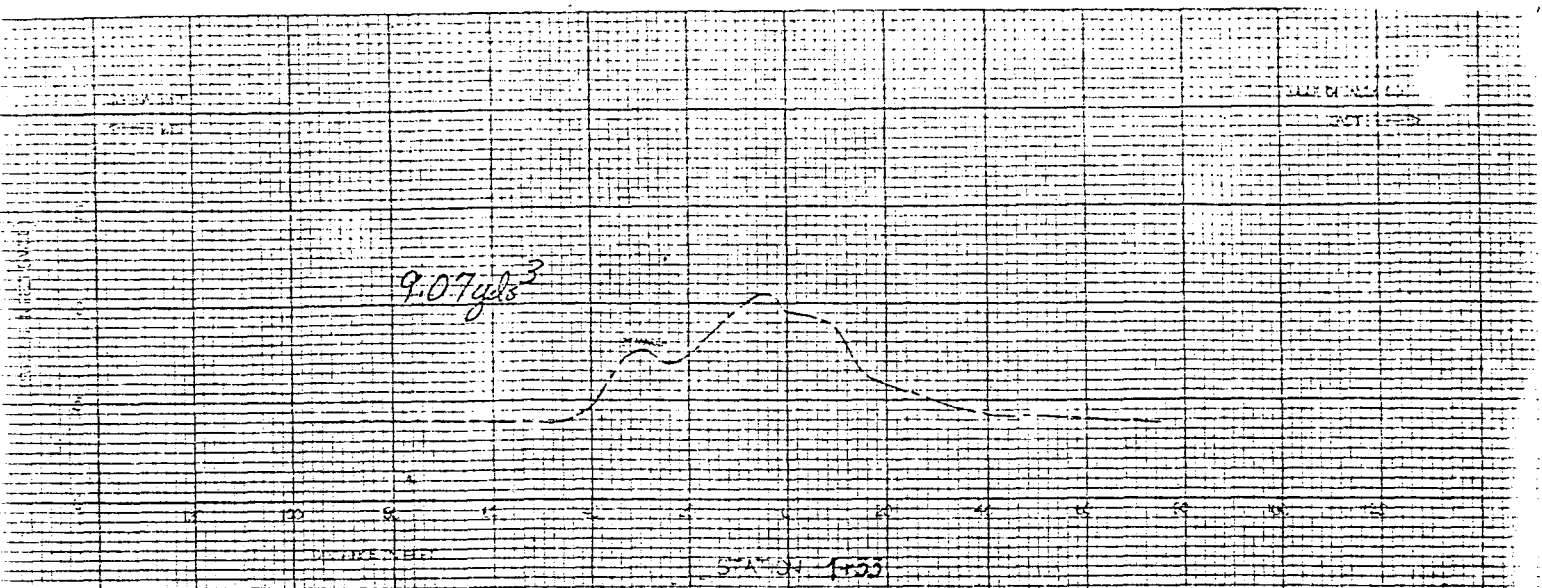
19 MAR

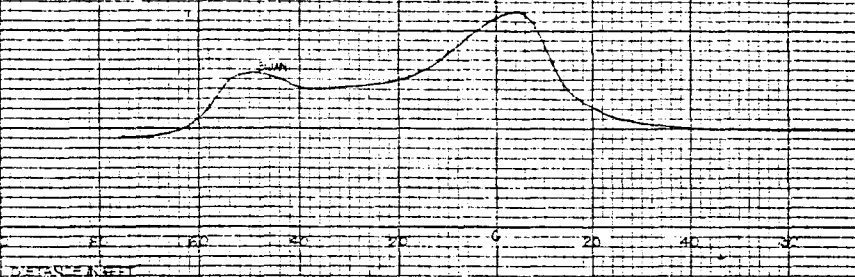
STATION 2167

19.96 yds³

DISTANCE FEET

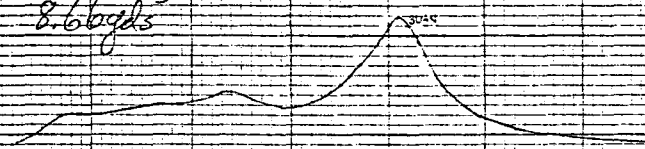
STATION 6+87





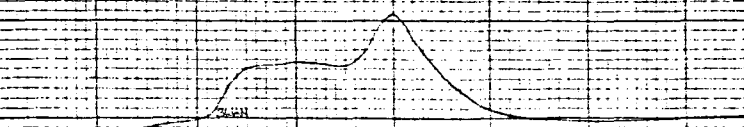
8.66 gds³

31 JAN



10167

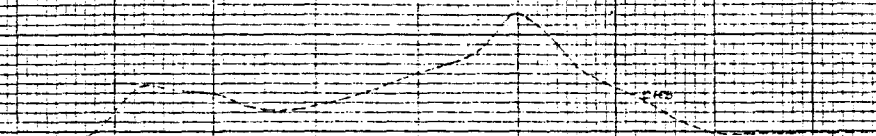
6.74 yds³



5-A-24-19167

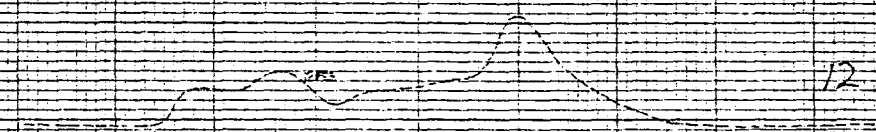
KEY _____
 BRIAN _____
 WES _____
 ROSE _____
 ZYER _____
 EMERSON _____
 LEWIS _____
 HAWK _____
 ZIMMER _____

12.22 yds³



STATION 9+35

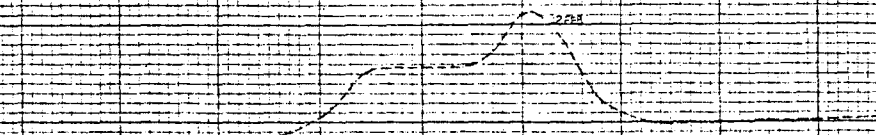
8.55 yds³



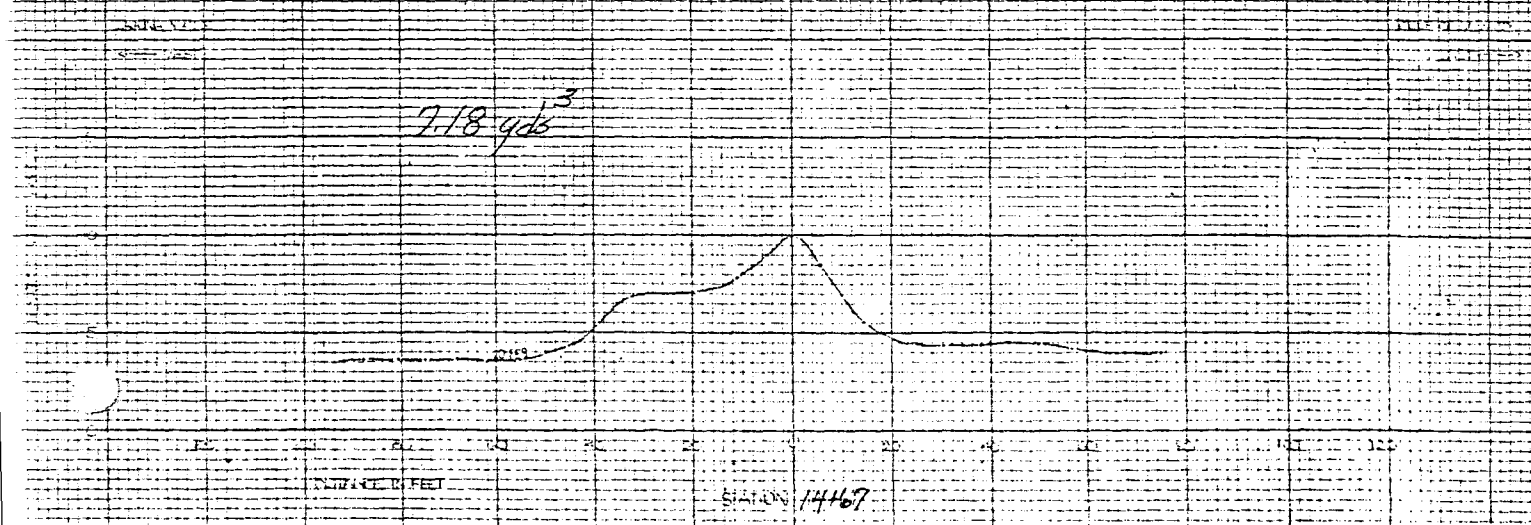
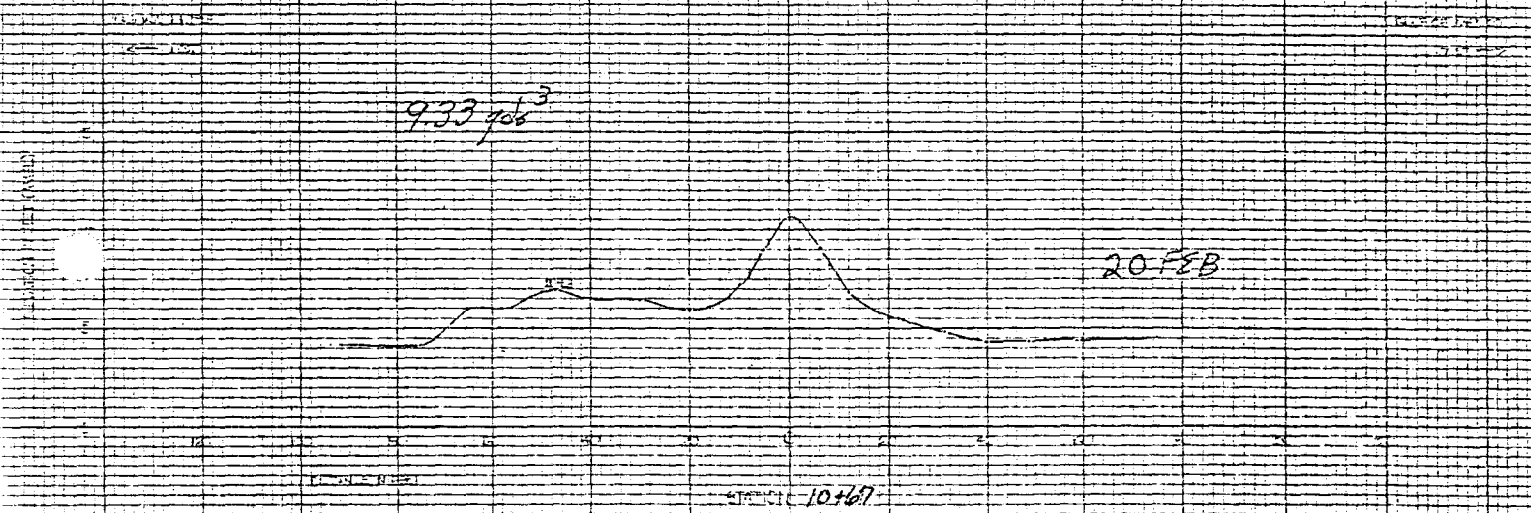
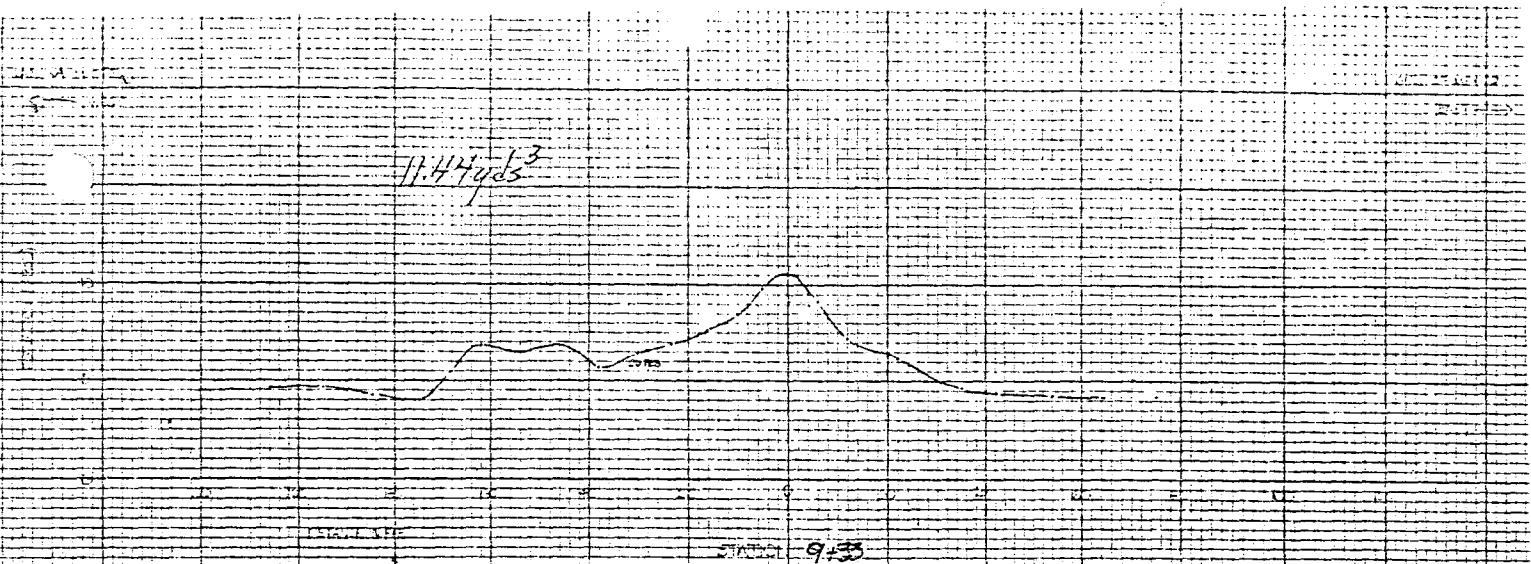
12 FEB

STATION 10+67

7.48 yds³



STATION 14+67



8.29 yds³

STATION 9755

8.74 yds³

27 FEB

STATION 9757

8.74 yds³

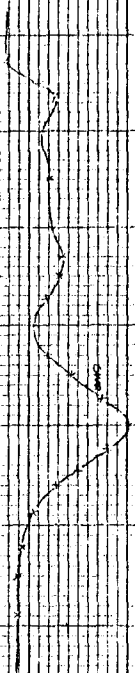
STATION 9759

8.29 yds³



Station 19133

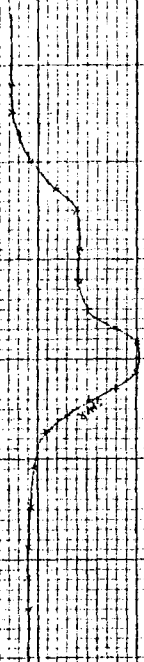
17.92 yds³
~~17.92 yds³~~



5 MMR

Station 19167

2.40 yds³



Station 19167

6.96 yds³

STATION 9455

9.40 yds³

12 MAR

STATION 10467

7.00 yds³

STATION 14469

10.40 gds³

9:55

8.70 gds³

19 MAR

10:07

8.07 gds³

11:07

LASTED DATE

DATE

DATE

10.33 gds³

10.33

833

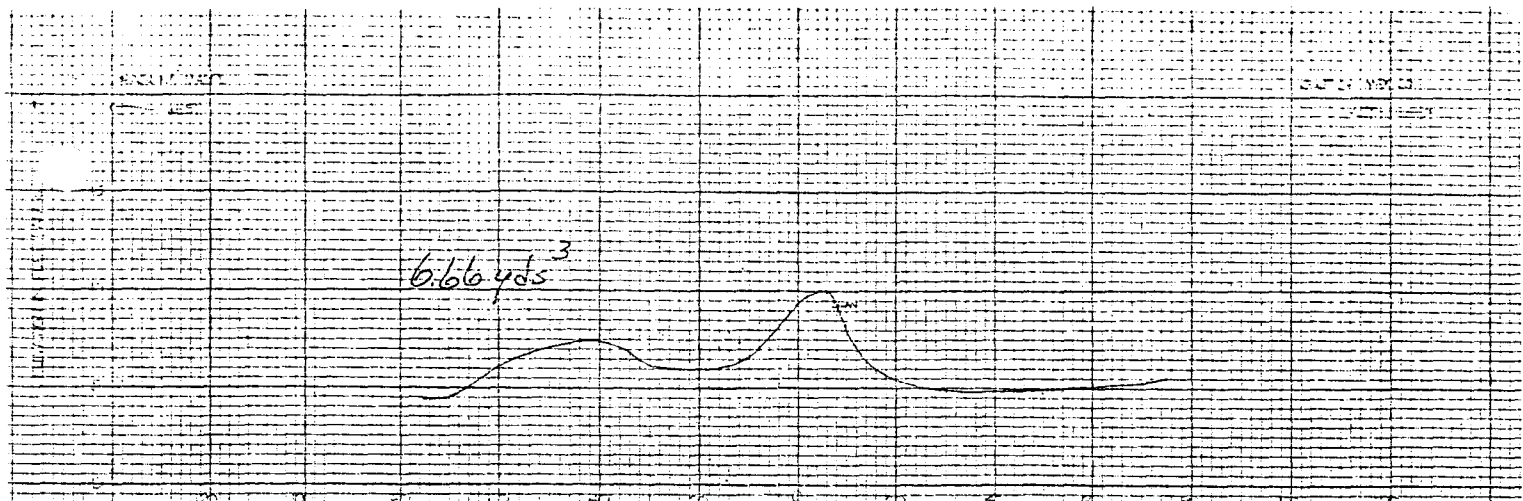
9.07 gds³

27 MAR

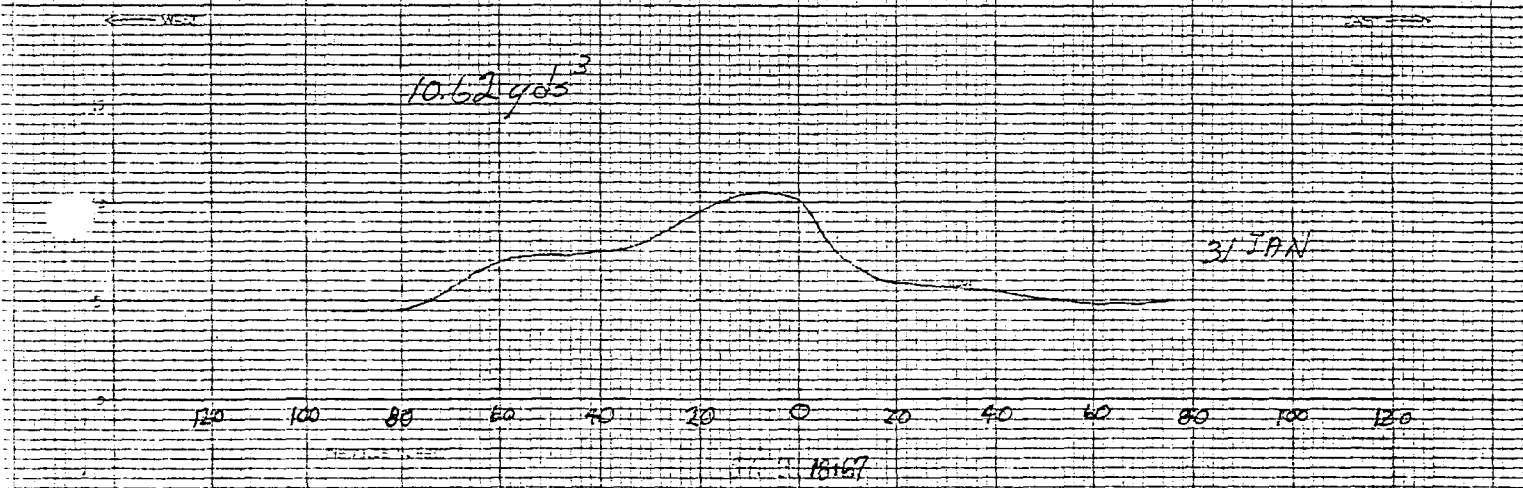
1067

892 gds³

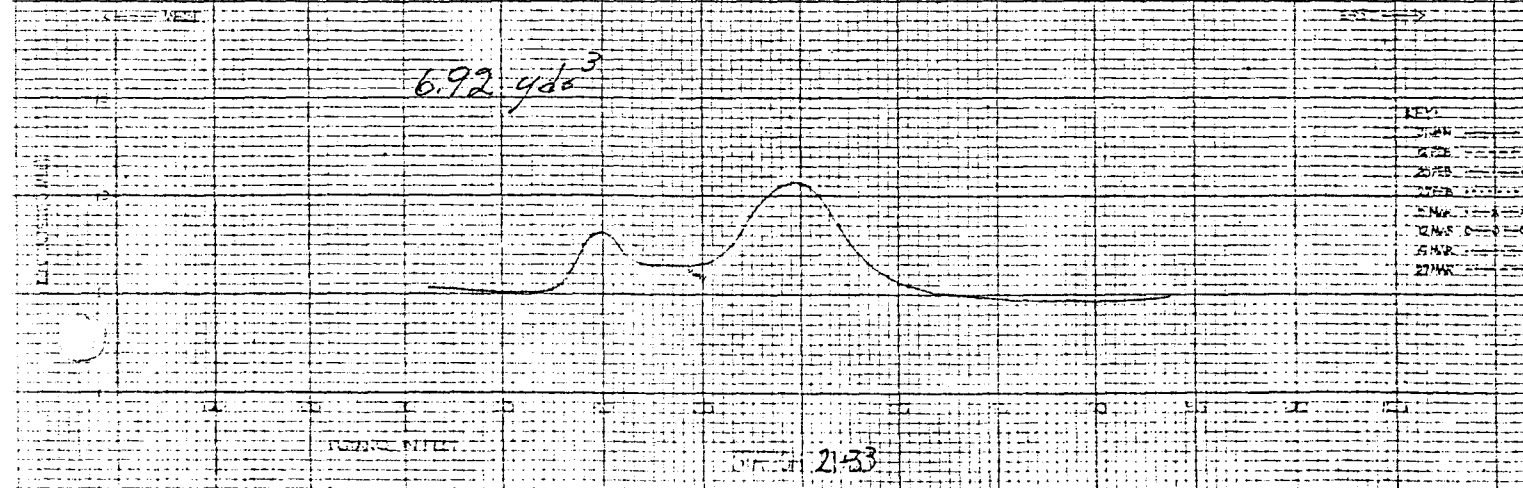
1187



STATION 11+33



STATION 16+67



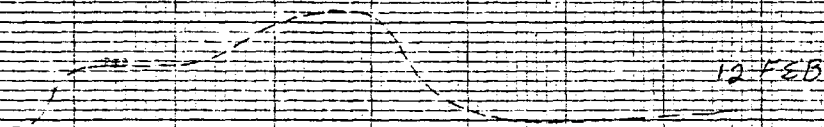
STATION 21+53

7.25 gds³



1763

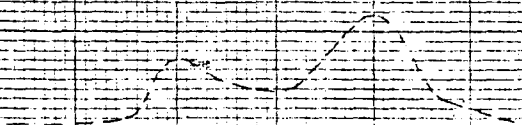
11.03 gds³



12 FEB

1867

7.66 gds³



2133

DATE

TIME

WIND

SEA

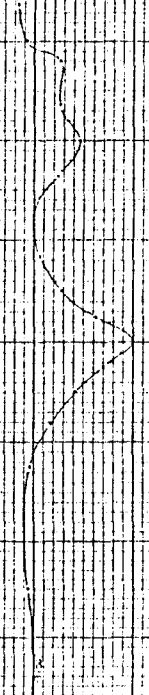
TEMP

MOON

WAVE

CLAR

6.44 yds



17.35

11.74 yds



20.38

18.37

8.14 yds



21.57

7.33 yds³

1733

12.48 yds³

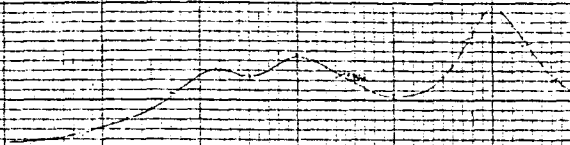
27 FEB

18467

8.33 yds³

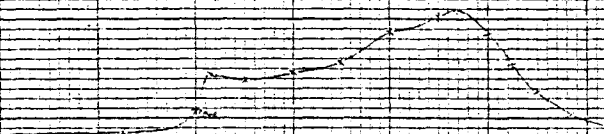
21433

6.85 gds³



17.33

10.18 gds³



5 MAR

18.67

8.14 gds³



21.33

729 yds³

17133

1159 yds³

12 MAR

18167

655 yds³

21133

8.70 yds³

17+33

12.77 yds³

19 MAR

18+67

8.92 yds³

21+33

829 yds³

17+33

1074 yds³

27 MAR

18+67

10.18 yds³

21+33

11.4 yds³

5733

10.32 yds³

5 MAR

13733

8.33 yds³

22+67

8.74 yds³

5733

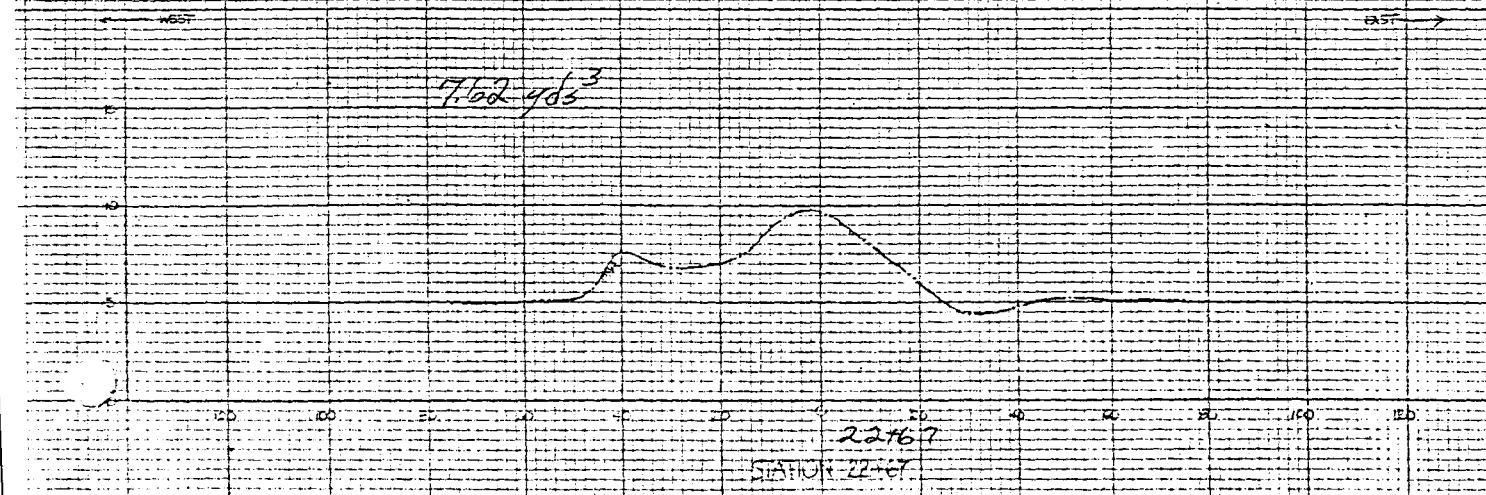
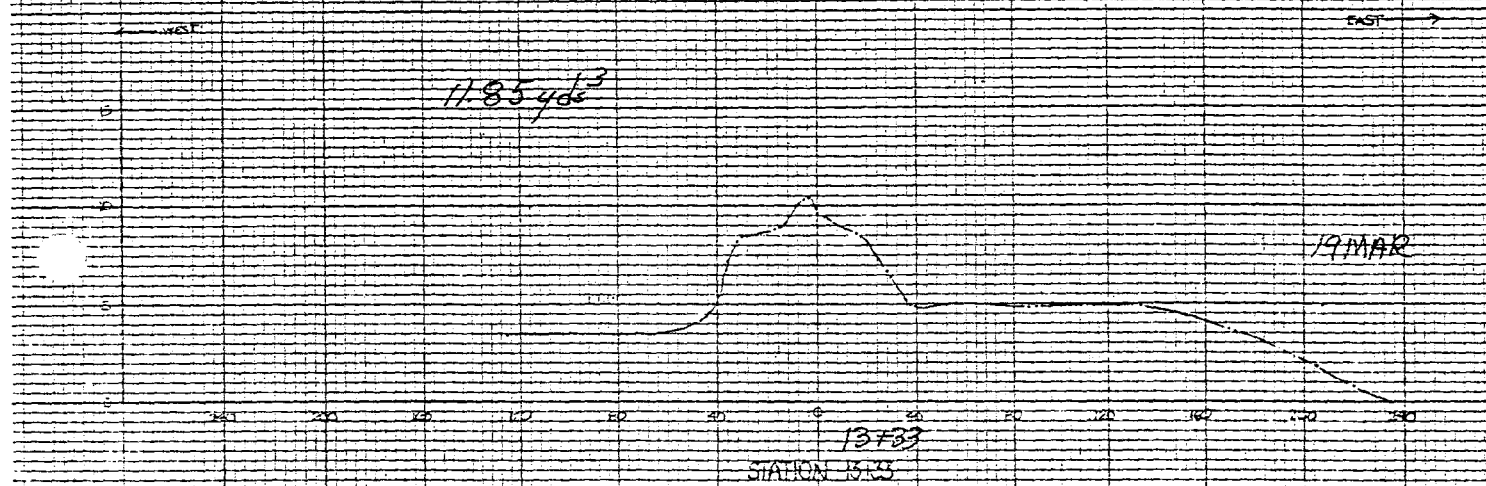
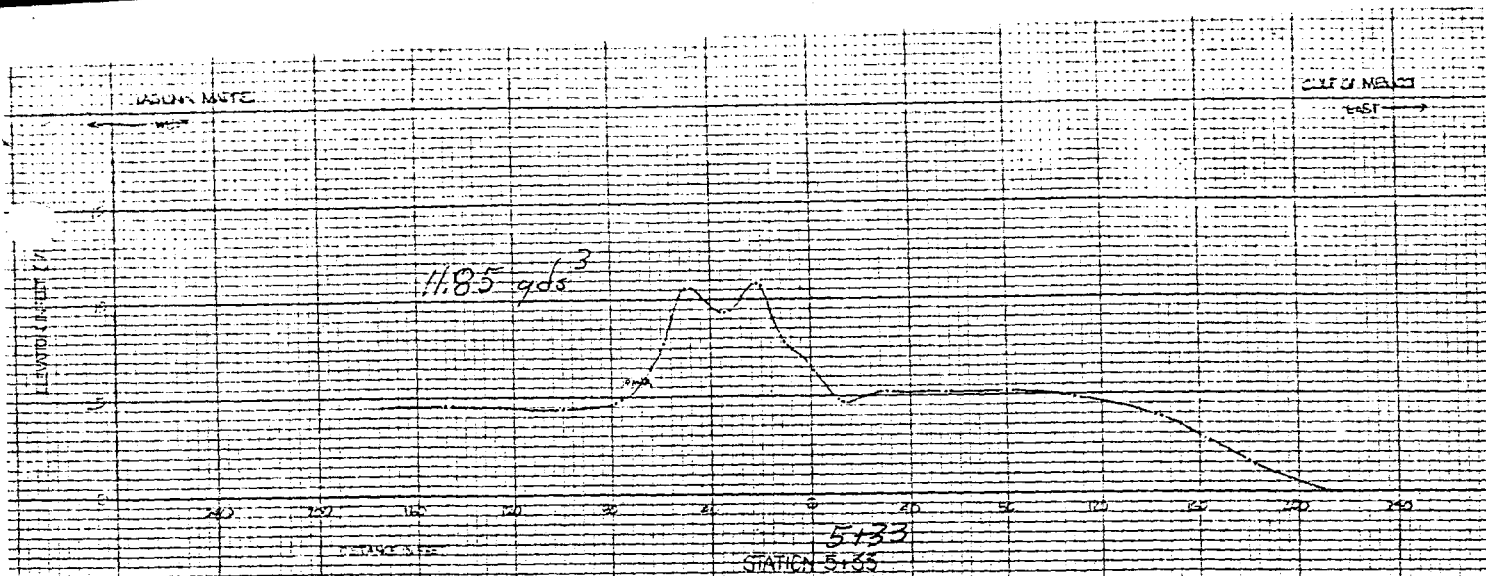
11.97 yds³

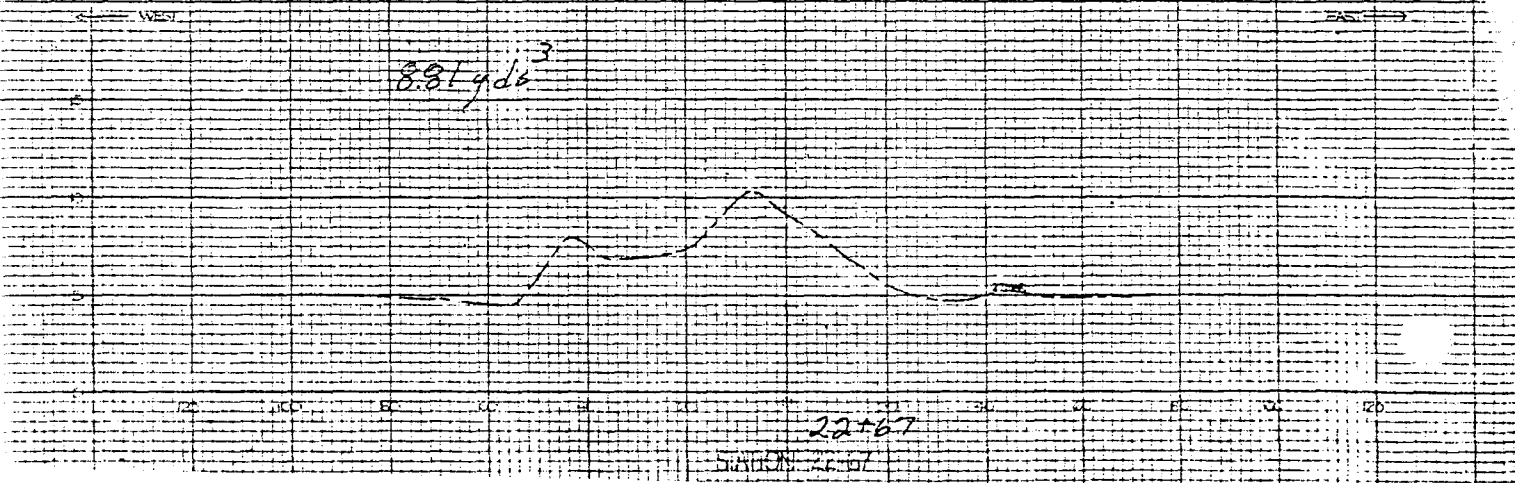
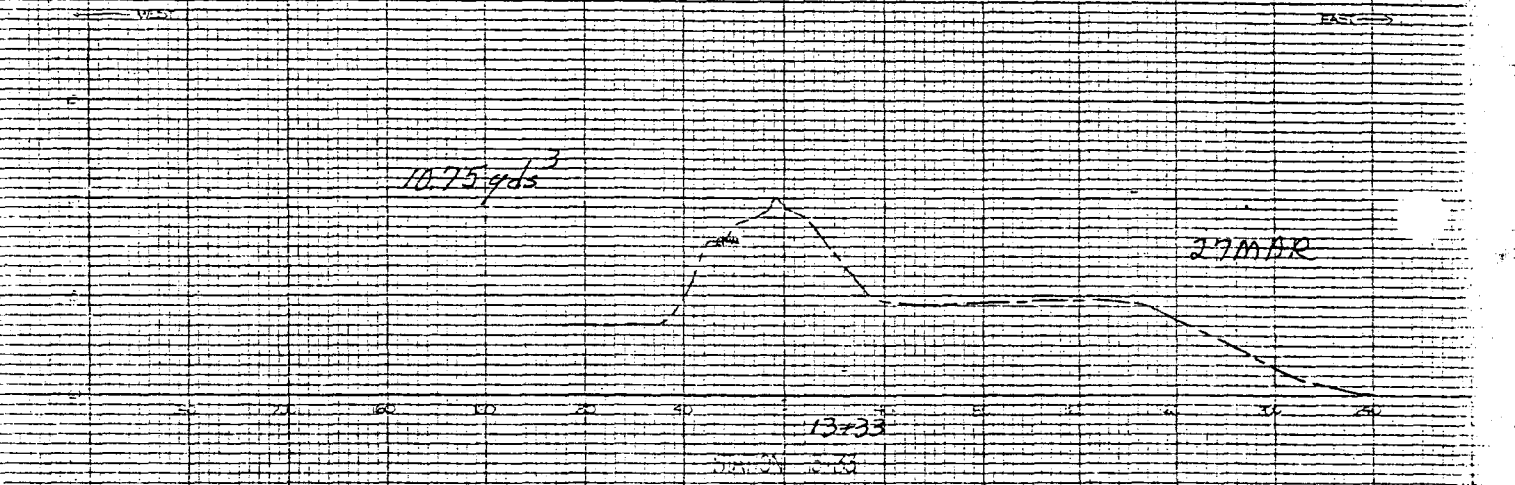
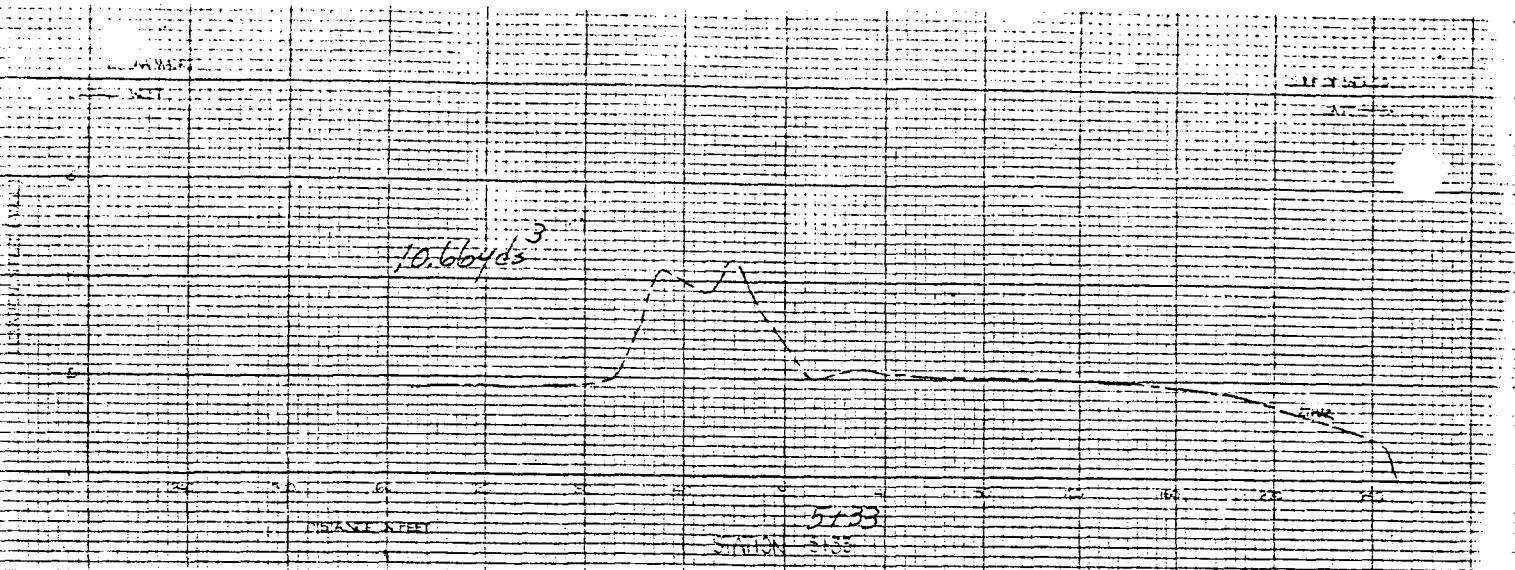
12 MAR

13733

8.44 yds³

22767





SAND VOLUMES / yds³ lin. ft. beach

Station
Number

	31 JAN	12 FEB	20 FEB	27 FEB	5 MAR	12 MAR	19 MAR	27 MAR
1+33	7.74	7.85	10.33	10.07	9.81	7.40	9.59	9.07
2+66	7.11	8.00	7.29	7.14	7.00	7.00	7.85	8.22
5+33	12.44	11.11	10.96	12.74	11.11	8.74	11.85	10.66
6+67 Gravel hole	19.22	20.77	23.22	17.33	18.33	19.81	19.96	19.40
9+33	9.66	12.22	11.44	8.29	8.29	6.96	10.40	10.33
10+67	8.66	8.55	9.33	8.74	7.92	9.40	8.70	9.07
13+33	11.77	12.37	10.14	12.00	10.22	11.77	11.85	10.75
14+67	6.74	7.48	7.18	8.74	7.40	7.00	8.07	8.92
17+33	6.66	7.25	6.44	7.33	6.85	7.29	8.70	8.29
18+67	10.62	11.03	11.74	12.48	10.18	11.59	12.77	10.74
21+33	6.92	7.66	8.14	8.33	8.14	6.55	8.92	10.18
22+67	8.55	7.85	8.44	7.77	8.33	8.44	7.62	8.81

	RANGE	ΣY	$\bar{Y}$	Period GRSATST INCREASE	PERIOD GRSATST DECREASE
1+33	7.40 - 10.33	71.86	8.98	Feb. 12 - 20 Feb.	5 Mar - 12 Mar
2+66	7.00 - 8.22	59.61	7.45	31 Jan. - 12 Feb.	12 Feb - 20 Feb
5+33	8.74 - 12.74	~~104.46~~ ^{89.87}	~~13.68~~ ^{11.10}	12 Mar. - 19 Mar.	5 Mar - 12 Mar.
6+67	17.33 - 23.22	158.04	19.75	12 Feb - 20 Feb.	20 Feb - 27 Feb
9+33	6.96 - 12.22	77.59	9.69	12 Mar - 19 Mar.	20 Feb - 27 Feb
10+67	7.92 - 9.40	70.37	8.79	5 Mar - 12 Mar.	27 Feb - 5 Mar
13+33.	10.14 - 12.37	90.87	11.35	20 Feb - 27 Feb.	12 Feb - 20 Feb
14+67	6.74 - 8.92	61.53	7.69	20 Feb - 27 Feb	27 Feb - 5 Mar.
17+33	6.44 - 8.70	58.81	7.35	20 Feb - 27 Feb	12 Feb - 20 Feb
18+67	10.18 - 12.77	91.15	11.39	5 Mar - 12 Mar.	27 Feb - 5 Mar
21+33	6.55 - 10.18	64.84	8.10	12 Mar - 19 Mar	5 Mar - 12 Mar.
22+67	7.62 - 8.81	65.81	8.22	19 Mar - 27 Mar	12 Mar - 19 Mar

~~31 JAN~~

~~12 FEB~~

20 FEB

27 FEB

5 MAR

12 MAR

19 MAR

27 MAR

116.09 9.67

122.14 10.17

124.65 10.38

120.96 10.08

113.58 9.46

111.95 9.32

126.28 10.52

124.44 10.37

12.74 yds³

5733

12.00 yds³

27438

13433

9779 yds³

22467

23+67

8.14 963

13+33

83+08

10.14 963

5+33

10.26 963

12.44 yds³

5+33

11.77 yds

31 JAN

240 200 160 120 80 40 0 40 60 120 160 200 240

13+33

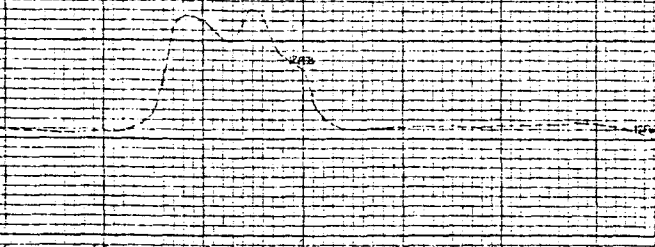
8.55 yds³

KEY
31 JAN
12 FEB
20 FEB
1 FEB
5 MAR
12 MAR
19 MAR
26 MAR

120 100 80 60 40 20 0 20 40 60 80 100

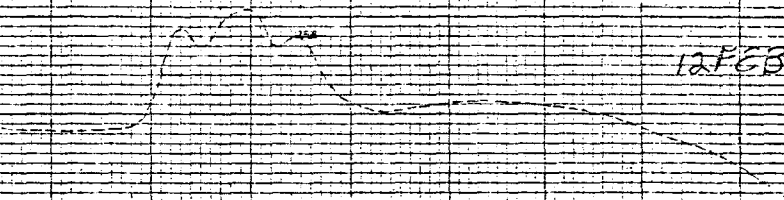
22+67

11.11 yds³



5+33

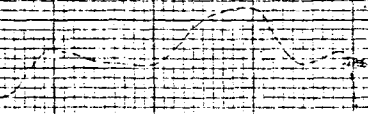
12.37 yds³



12 FEB

13+33

7.85 yds³



22+67