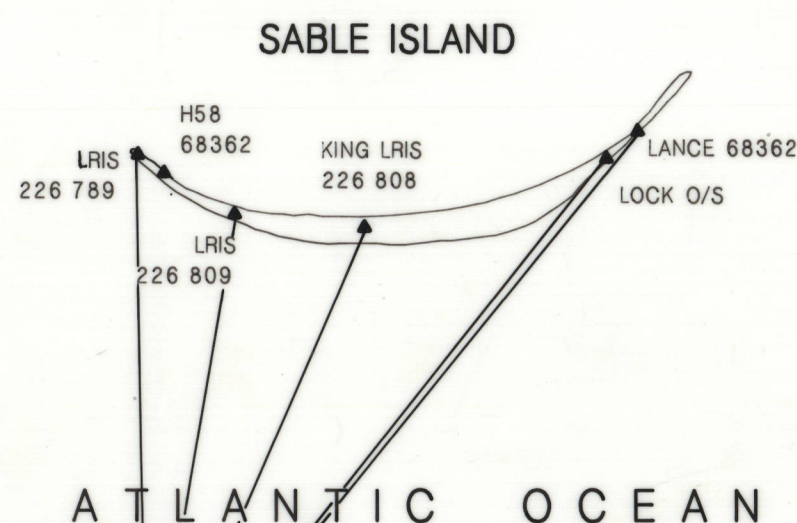




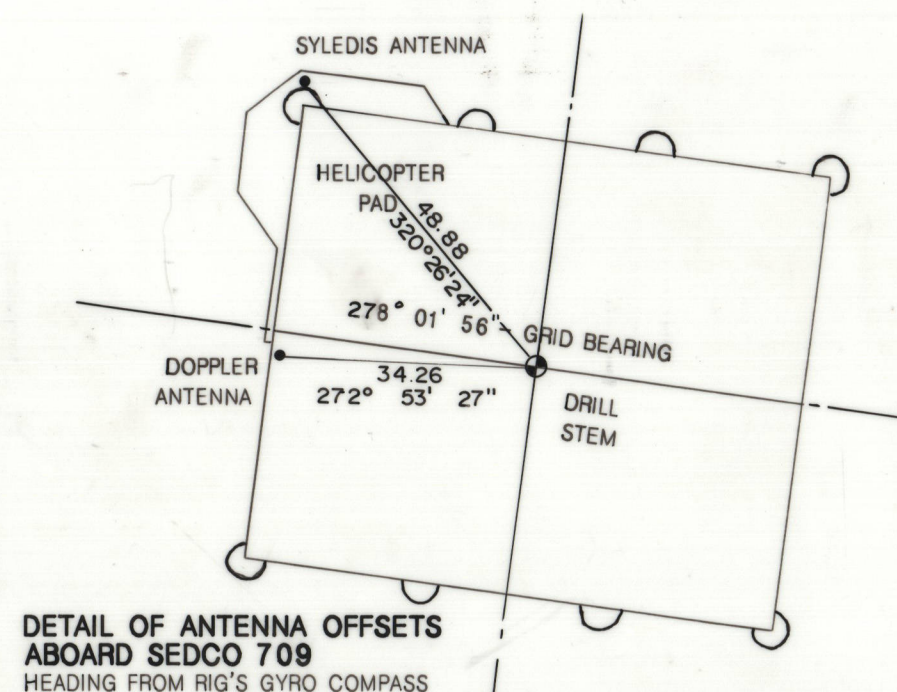
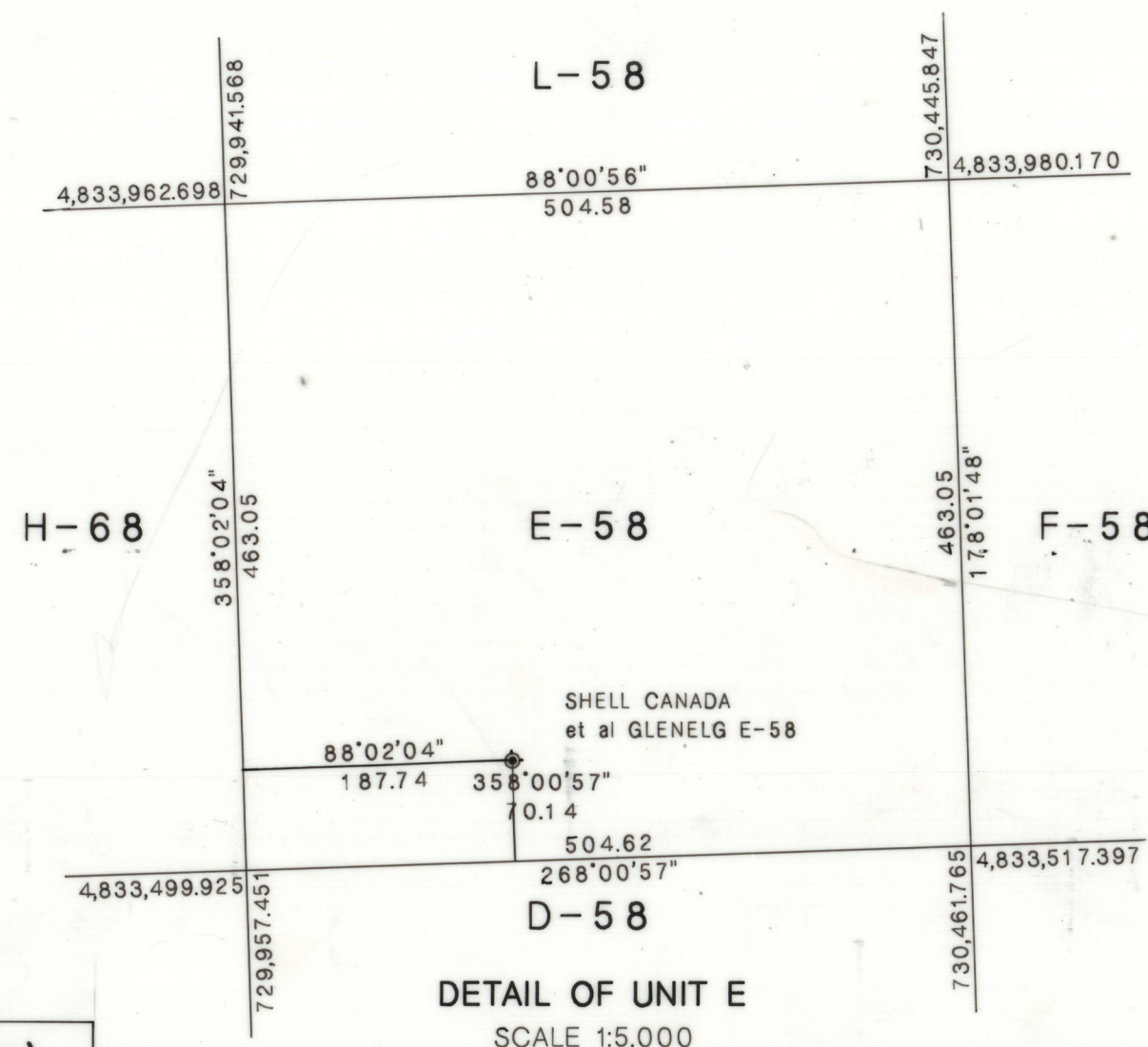
SHELL CANADA
et al GLENELG E-58
43° 37' 17.512" N
60° 08' 51.625" W

SUMMARY OF SYLEDIS STATION COORDINATES (confirmation)

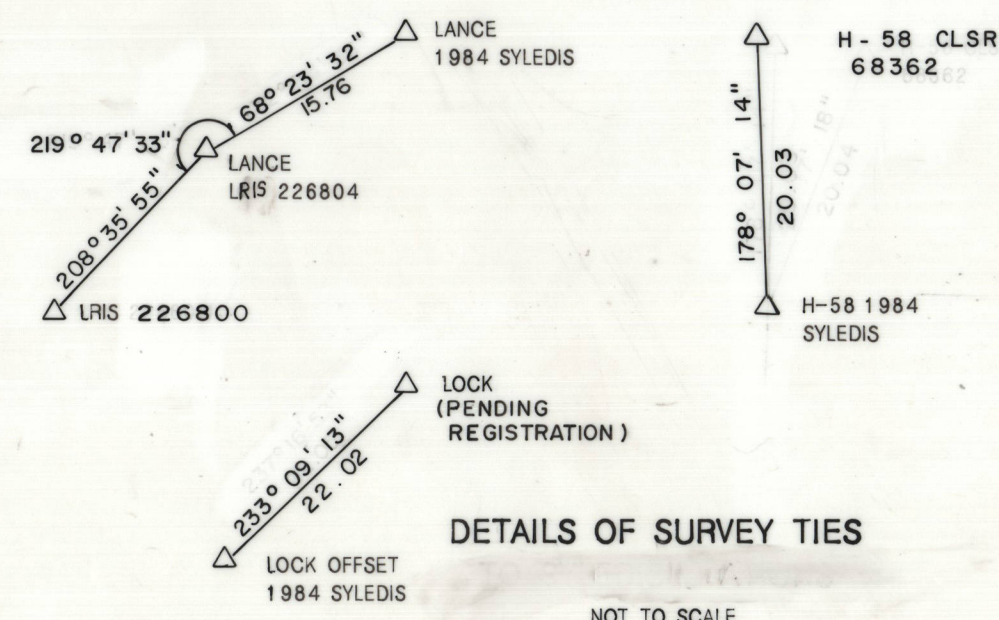
STATION	C.L.S.R. No.	LATITUDE LONGITUDE	U.T.M. NORTHING U.T.M. EASTING	HEIGHT (A.M.S.L.)	SURFACE DISTANCE TO WELL	
					FREQ.	METRES
LRIS	226800	43°58'34.883"N 59°45'26.570"W	4,874,143.80N 760,090.00E	3.6		
LANCE(LRIS)	226804	43°58'59.834"N 59°45'05.929"W	4,874,931.73N 760,519.56E	14.4		
H-58	68362	43°57'28.040"N 60°07'39.176"W	4,870,980.22N 730,469.72E	4.8		
LOCK	PENDING	43°57'32.975"N 59°46'49.207"W	4,872,161.56N 758,323.32E	11.4		
LANCE SYLEDIS		43°59'00.003"N 59°45'05.262"W	4,874,937.54 N 760,534.22 E.	12.0	436 MHz	51,310 m.
H58 SYLEDIS		43°57'27.390"N 60°07'39.178"W	4,870,960.17 N 730,470.38 E.	46.7	436 MHz	37,385 m.
KING (LRIS)	226808	43°56'08.083"N 59°56'01.395"W	4,869,073.26 N 746,113.67 E.	28.2	436 MHz	38,917 m.
WEST SPIT (LRIS)	226789	43°58'03.058"N 60°08'59.099"W	4,871,998.84 N 728,651.05 E.	2.1	442 MHz	38,452 m.
LOCK OFFSET	PENDING	43°57'32.570"N 59°46'50.020"W	4,872,148.35 N 758,305.70 E.	13.8	442 MHz	47,745 m.
LRIS	226809	43°56'06.893"N 59°59'25.778"W	4,868,868.74 N 741,557.98 E.	15.7	442 MHz	37,088 m.
GLENELG E-58		43°37'17.186"N 60°08'51.180"W	4,833,566.80 N 730,153.00 E.	-3.4		

SUMMARY OF DOPPLER SATELLITE TRANSLOCATION SURVEY (Primary)

CONTROL STATION VERN : C.L.S.R. 57247 19 ACCEPTED PASSES BETWEEN 19 h. G.M.T., DAY 189 AND 05 h. G.M.T., DAY 193.		DERIVED STATION GLENELG E-58 19 ACCEPTED PASSES BETWEEN 19 h. G.M.T., DAY 189 AND 05 h. G.M.T., DAY 193.	
1927 NAD COORDINATES FROM L.R.I.S. C.L.S.R. PLAN 57247	OBSERVED GEOCENTRIC COORDINATES (BROADCAST EPHEMERIS)	DERIVED DATUM SHIFT (GEOCENTRIC - N.A.D.)	OBSERVED GEOCENTRIC COORDINATES (BROADCAST EPHEMERIS)
CARTESIAN X	2,295,031.36	-31.62	2,302,001.48
COORDINATES Y	-3,987,156.51	149.22	-4,010,928.50
Z	4,402,864.22	181.35	4,377,551.25
LATITUDE	43°56'12.838"		43°37'17.512"
LONGITUDE	60°04'30.034"		60°08'51.625"
HI. ABOVE M.S.L.(H)	15.4		-3.4
GEOID HEIGHT (N)	15.0		13.6
HEIGHT ABOVE SPHEROID (N)	30.4		10.2



DETAIL - not to scale



CANADA LANDS SURVEYS RECORDS
7 1 1 7 2
DATE 18 DEC 1987

PLAN AND FIELD NOTES OF SURVEY OF
OFFSHORE EXPLORATORY WELL LOCATION
SHELL-P.C.I. et al GLENELG E-58
SABLE ISLAND
IN UNIT E SECTION 58
GRID AREA 43°40' N., 60°00' W.
CANADA OIL AND GAS LAND REGULATIONS
EXPLORATION AGREEMENT # 121
SURVEYED UNDER THE DIRECT SUPERVISION OF W.R.DABBS C.L.S.

FOR SHELL CANADA RESOURCES LIMITED
BETWEEN JULY 3 AND JULY 10, 1984
BY NORTECH SURVEYS (CANADA) INC.

LEGEND

POSITIONING WAS DONE BY SIMULTANEOUS DOPPLER SATELLITE OBSERVATIONS
USING JMR-1A RECEIVERS. POSITIONS WERE COMPUTED USING PROGRAM GEODOP.
(DOCUMENTATION AVAILABLE FROM GEODETIC SURVEY OF CANADA) YIELDING 19 COMMON PASSES.

POSITIONING WAS CONFIRMED USING SERCEL SYLEDIS SR3 POSITIONING SYSTEM
WITH RANGES FROM 6 STATIONS.

DISTANCES ARE U.T.M. AND IN METERS.
BEARINGS ARE U.T.M. GRID.
ALL GEOGRAPHIC COORDINATES ARE REFERRED TO THE 1927 NORTH AMERICAN DATUM (NAD 27).
ALL U.T.M. COORDINATES ARE COMPUTED FOR ZONE 20, CENTRAL MERIDIAN 63 W.
WITH A FALSE EASTING OF 500,000 m. AT THE CENTRAL MERIDIAN
WATER DEPTH AT LOCATION IS 79 m.
HEIGHTS ARE DETERMINED BY SATELLITE TRANSLOCATION.
GEOID UNDULATIONS ARE FROM GODDARD EARTH MODEL 10C WITH
 $\Delta X = 39.00$ $\Delta Y = -154.00$ $\Delta Z = -180.00$ AND $X_{me} = 0.00$

SHELL CANADA RESOURCES LIMITED

[Signature]
WITNESS
AUGUST 28, 1984
DATE

I HEREBY CERTIFY THAT THIS PLAN OF
SURVEY WAS MADE UNDER MY PERSONAL
SUPERVISION AND IS TRUE AND CORRECT
TO THE BEST OF MY KNOWLEDGE.

[Signature]
CANADA LAND SURVEYOR
[Signature]
WITNESS
AUGUST 27, 1984
DATE

Exam'd by RGW & WDC 18-8-87

14-12-87