

SUMMARY OF GLOBAL POSITIONING SYSTEM SURVEY (Confirmation)

- 1) POSITION IS A WEIGHTED MEAN OF 530 INDEPENDENT FIXES OBSERVED DURING THE PERIOD 05:32 h. G.M.T. AND 06:36 h. G.M.T. DAY II3 ON SATELLITES 6,8,9 AND II.
  2) WGS-72 POSITIONS WERE TRANSFORMED TO NWL-9D USING
- THE SEPPELIN TRANSFORMATIONS.

  3) NWL-9D COORDINATES WERE TRANSFORMED TO 1927 NAD UTILIZING DATUM OFFSETS OF
- AX=-39.0 m., AY= 155.0 m., AZ=187.0 m.

  4) ANTENNA OFFSETS OF N=-4.79 m. AND E=35.48 m. (U.T.M.)
  WERE APPLIED TO THE OBSERVED POSITION TO DERIVE THE
  COORDINATES OF THE DRILL STEM.

44°28' 13.78' 58°58'40.83'

2 349 642.08 COORDINATES - 3 907 063.44 CARTESIAN 4 445 369.65

LATITUDE LONGITUDE

Ht. ABOVE M.S.L.(H) 15.40 m. 33.35 m.

5.40 m.

68.64 m.

GEOID Ht.

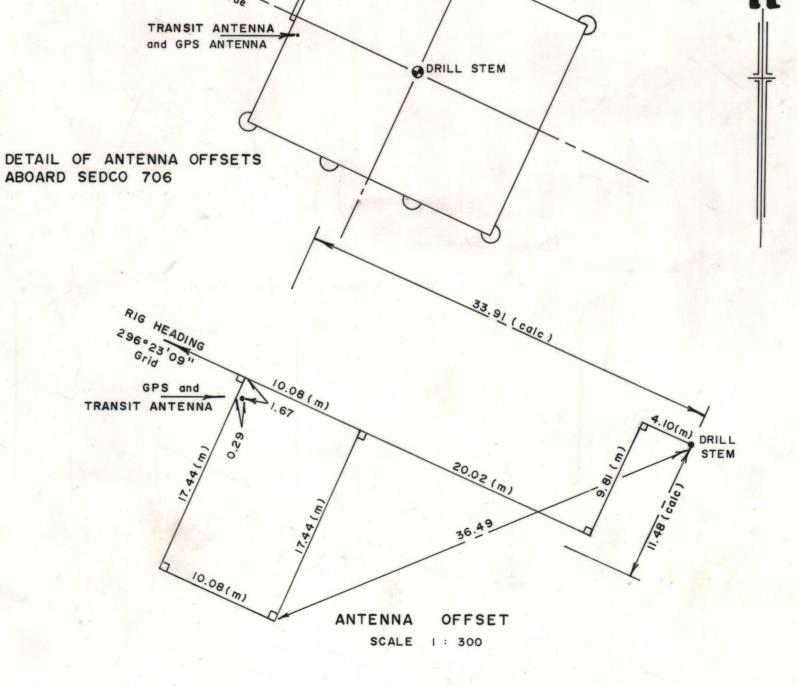
SPHEROID Ht. (h)

GEOID HEIGHT HEIGHT ABOVE (h) **ELLIPSOID** 

SUMMA	RY C	F	TRA	NSIT S	ATI	ELL	ITE PO	SITION-	TRA	ANSL	OCATI	ON	SUF	RVEY
	CONTROL STATION  NORTECH WAREHOUSE CLSR 69327 26 ACCEPTED PASSES BETWEEN 18h. G.M.T. DAY 113 AND 17h. G.M.T. DAY 116.							DERIVED STATION "PESKOWESK A-99" 26 ACCEPTED PASSES BETWEEN 18 h. G.M.T. DAY 113 AND 17 h. G.M.T. DAY 116.						
		C	OOR	NAD DINATES R. 69327	GE CC BF	ORD	VED NTRIC INATES ICAST IERIS	DERIVED DATUM SHIFT Broadcast MINUS NAD	6	ROA	RVED ENTRIC DINATES DCAST MERIS	GEO MIN	RDIN CEN US	1927 NATES
CARTESIAN COORDINATES	X	2	019	067.49	2	019	027.13	- 40.36	2	349	598.22	2	349	638.58
	Y	-4	066	548.16	-4	066	394.72	153.44	-3	906	910.69	-3 9	907	064.13
	Z	4	464	650.78	4	464	839.78	189.00	4	445	559.87	4	145	370.87
LATITUDE		44	°42	49.804"				THE WARREN				44	° 28	13.836
LONGITUDE	1	63	° 35'	43.094"								58	58	40.98
SEA LEVEL Ht.	(H)		63.	24 m.									17	.95 m.

15.40 m.

33.35 m.



HELICOPTER

RIG GYRO

2950 HEADING

CANADA LANDS SURVEYS RECORDS DATE 12 SEPT 1985

PLAN AND FIELD NOTES OF SURVEY OF OFFSHORE EXPLORATORY WELL LOCATION SHELL PCI et al PESKOWESK A-99 SABLE ISLAND IN UNIT A SECTION 99 GRID AREA 44°30' N., 58°45' W. CANADA OIL AND GAS LAND REGULATIONS

EXPLORATION AGREEMENT # 119 SURVEYED UNDER THE DIRECT SUPERVISION OF T.J. CRAGO C.L.S. FOR SHELL CANADA RESOURCES LIMITED

BETWEEN APRIL 21 AND APRIL 26, 1985. BY NORTECH SURVEYS (CANADA) INC. WELL LOCATION 44°28'13.836"N. 58°58'40.982" W.

## LEGEND

4,925,852.61

4,925,389.79

D-89

POSITIONING WAS CONFIRMED USING TEXAS INSTRUMENTS TI 4100 GLOBAL POSITIONING SYSTEM UTILIZING 4 SATELLITES.

LEGAL POSITION OBTAINED BY. TRANSLOCATION DOPPLER SATELLITE OBSERVATIONS USING JMR-4 RECEIVER. POSITIONS WERE COMPUTED USING GEODOP, (DOCUMENTATION AVAILABLE FROM GEODETIC SURVEY OF CANADA) YIELDING 26 COMMON PASSES.

DISTANCES ARE U.T.M. AND IN METERS AND ARE MEASURED UNLESS OTHERWISE NOTED. BEARINGS ARE U.T.M. GRID EXCEPT AS NOTED. ALL GEOGRAPHIC COORDINATES ARE REFERRED TO THE 1927 NORTH AMERICAN DATUM (NAD 27) ALL U.T.M. COORDINATES ARE COMPUTED FOR ZONE 21, CENTRAL MERIDIAN 57° W. WITH A FALSE EASTING OF 500 000 m. AT THE CENTRAL MERIDIAN. WATER DEPTH AT LOCATION IS 62.5 m HEIGHTS ARE DETERMINED BY SATELLITE OBSERVATIONS. GEOID UNDULATION ARE FROM GODDARD EARTH MODEL IO C WITH ΔX = 39.00 ΔY=-155.00 ΔZ=-187.00 AND Xno = 0.00

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

SHELL CANADA RESOURCES LTD.

DATE