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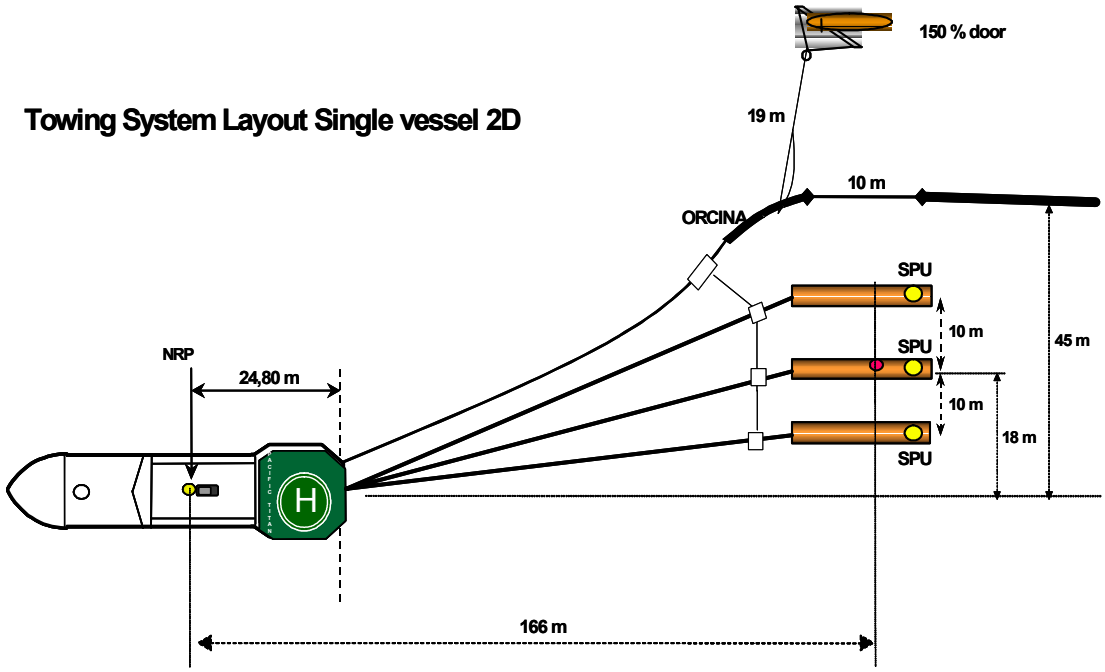
1. Towing Configuration



2. Streamer Configuration

2.1. Streamer System Description

Streamer System Parameters	
Number of Streamers	1
Type of Streamer	Seal
Streamer Length	6000 meter
Groups per Section (150 m)	12
Group Intervals	12.5 m (no overlap)
Active Group Array Length	11.7 m
Outside Diameter	50 mm
Jacket (skin type & thickness)	Polyurethane 3.3 mm
Breaking Strength	3 Ton
Ballasting Fluid (fluid-quantity)	Isopar M
Connectors (Pins)	28
Channels per Module	60 at 2 ms
Data Transmission Link	Dual twisted Quartet AWG 22
Power	+/- 175 V DC
Leakage	30 mA differential circuit breaker
Near Offset (centre source – centre near group)	114 m nominal
Streamer Depth	7m +/- 1.0
Number of Front 50 m Stretch Sections	1 (85 mm diameter)
Number of Tail 50 m Stretch Sections	1 (50 mm diameter)
Number of Compasses per Streamer	22 (within digibirds)
Number of Depth Sensors per Streamer	22 (within digibirds)

Trace allocation	**Near**	**Far**	**Aux**
Streamer 1	1	480	481-501

Hydrophone Parameters	
Hydrophone Specification	VINCI NH 95-200
No of Channels per Section	12
No of Hydrophones per Channel	16 in parallel
Active Length of Channel	11.719 m
Channel Centre Spacing	12.5 m under a 1000daN load
Hydrophone Spacing	0.781 m
Low Frequency Cut	3 Hz
Nominal Sensitivity, without electronics @ 1 bar @ 20°C	20 V/bar
Nominal Sensitivity, electronics included @ 1 bar @ 20°C	17.4 V/bar
Capacitance per Group	256 nF +/-3% at 20°C
Minimum Leakage Resistor	500 Mohm under 50V

2.2. Streamer Layout

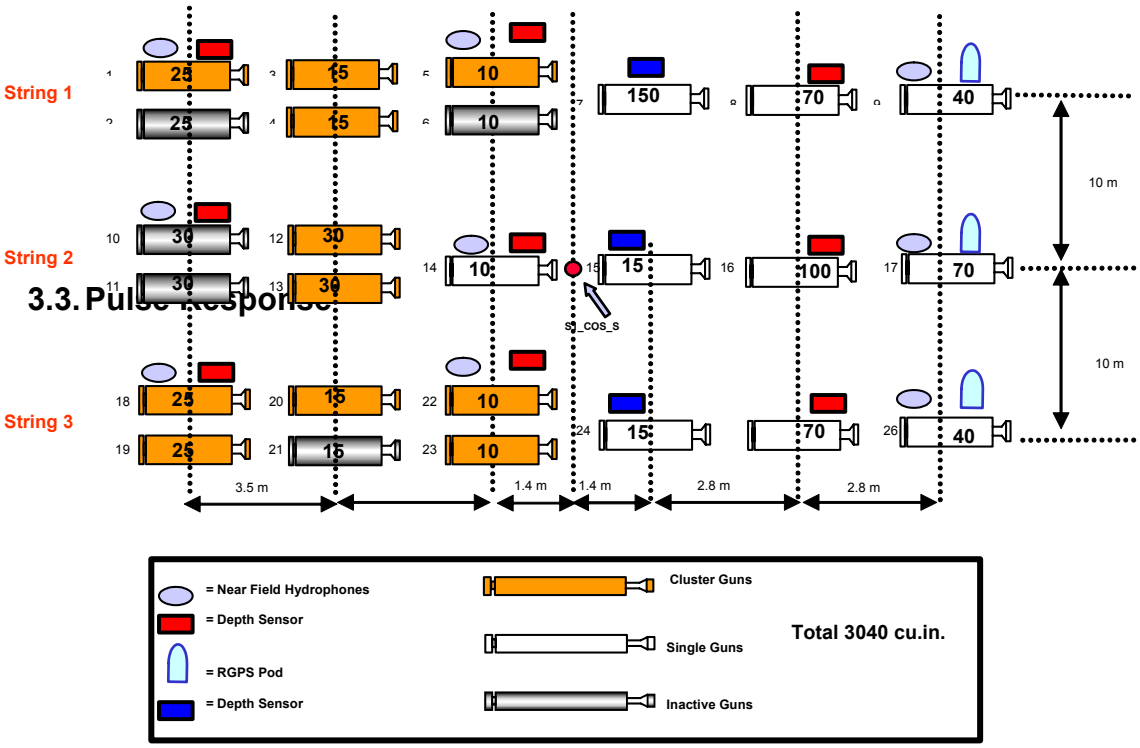
Item	Position	S/N	Bird N.O	Bird S/N	SRD N.O.	SRD S/N	Trace N.O	Weights
DCXU		686						
Slip ring		n/a						
Lead-in		n/a						
SHS		1354						
HAU		174						
HESE		1340	1	29034	1	35806		
HESA		1329						
ALS	01	900	2	29096			1-12	5
ALS	02	918					13-24	5
ALS	03	919	3	29031	2	35785	25-36	5
ALS	04	916					37-48	5
ALS	05	917	4	29012			49-60	5
LAUM	01	517						
ALS	06	915					61-72	5
ALS	07	914	5	29075			73-84	5
ALS	08	1383					85-96	5
ALS	09	913	6	29020	3	35804	97-108	5
ALS	10	882					109-120	5
LAUM	02	515						
ALS	11	911	7	29009			121-132	5
ALS	12	909					133-144	5
ALS	13	908	8	27490			145-156	5
ALS	14	1384					157-168	5
ALS	15	1378	9	27746	4	35786	169-180	5
LAUM	03	509						
ALS	16	905					181-192	5
ALS	17	906	10	29010			193-204	5
ALS	18	904					205-216	5
ALS	19	903	11	26502			217-228	5
ALS	20	901					229-240	5
LAUM	04	395						
ALS	21	1368	12	29002	5	35805	241-252	5
ALS	22	1370					253-264	5
ALS	23	889	13	29037			265-276	5
ALS	24	887					277-288	5
ALS	25	1380	14	27611			289-300	5
LAUM	05	513						
ALS	26	885					301-312	5
ALS	27	1369	15	26612	6	35807	313-324	5
ALS	28	883					325-336	5
ALS	29	1381	16	29046			337-348	5
ALS	30	1382					349-360	5
LAUM	06	485						
ALS	31	O898	17	26609			361-372	5
ALS	32	O899					373-384	5
ALS	33	O896	18	27772	7	35787	385-396	5
ALS	34	O895					397-408	5
ALS	35	O894	19	29023			409-420	5
LAUM	07	473						
ALS	36	O902					421-432	5
ALS	37	O890	20	27773	8	35788	433-444	5
ALS	38	O893					445-456	5
ALS	39	1371	21	27832			457-468	5
ALS	40	1379	22	27496			469-480	5
TES	1	1335						
Stic	1							
Tailbuoy	1							

3. Source Configuration

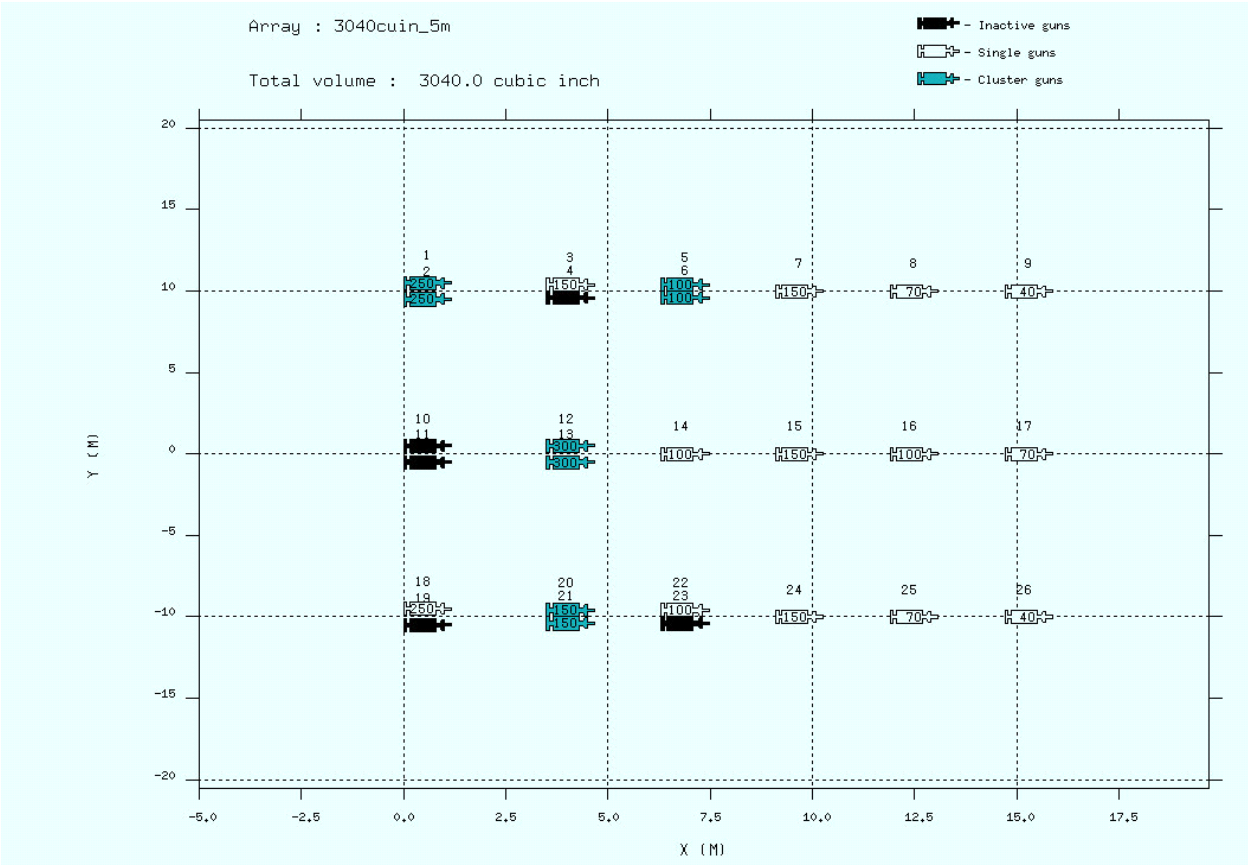
3.1. Source System Description

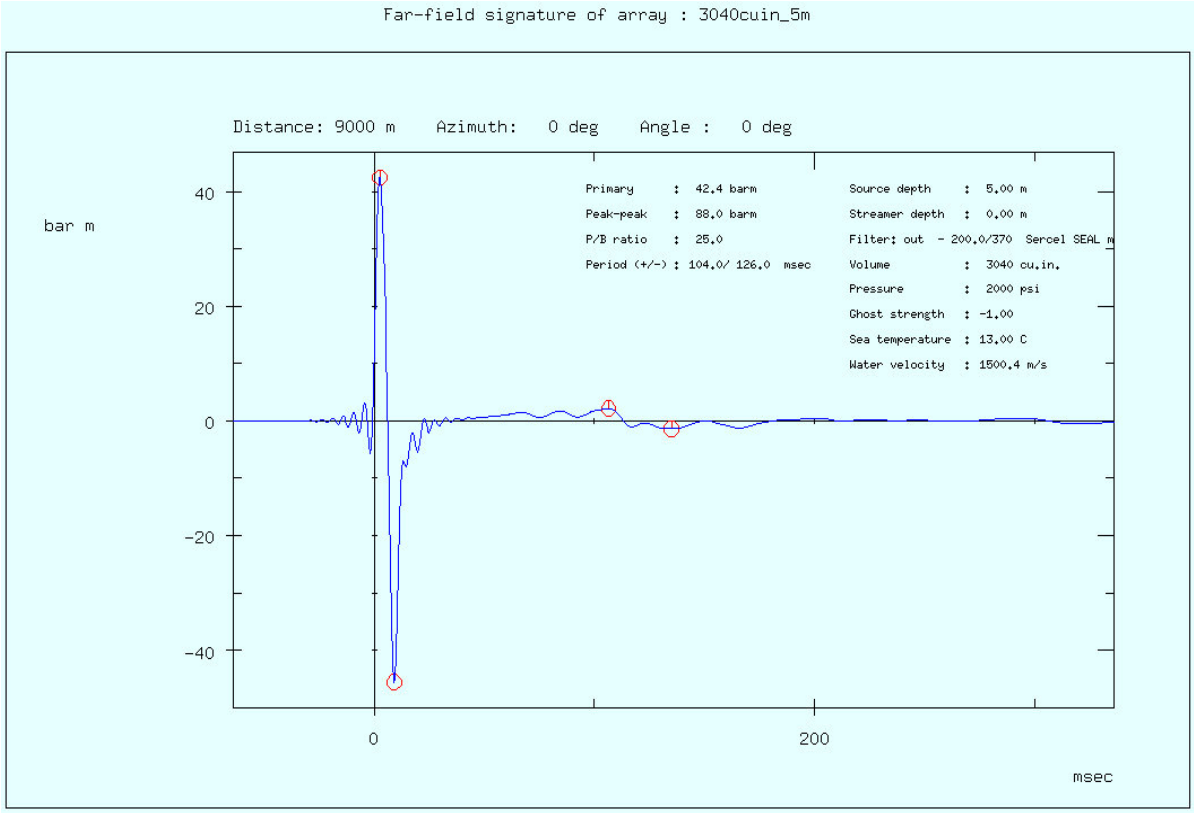
Source Parameters	
Number of Sources	1
Number of Sub-arrays per Source	3
Array Length	14.7 m
Array Separation	10 m
Source Width	20 m
Source Separation	N/A
Source Volume	3040 Cubic inches
Number of Hydrophones per Source	3*3
Number of Depth Transducers per Source	3*3
Number of Guns per Source	Sub-array 1 & 3 : 9 guns Sub-array 2 : 8 guns
Number of Clusters per Source	Sub-array 1 & 3 : 3 clusters Sub-array 2 : 2 clusters
Airgun Type	Bolt, 1500 & 1900 Long Life
Operating Pressure	2000 PSI
Depth of Guns	5.0 m
Peak-to-Peak Amplitude	88.0 barm
Primary-to-Bubble Ratio	25

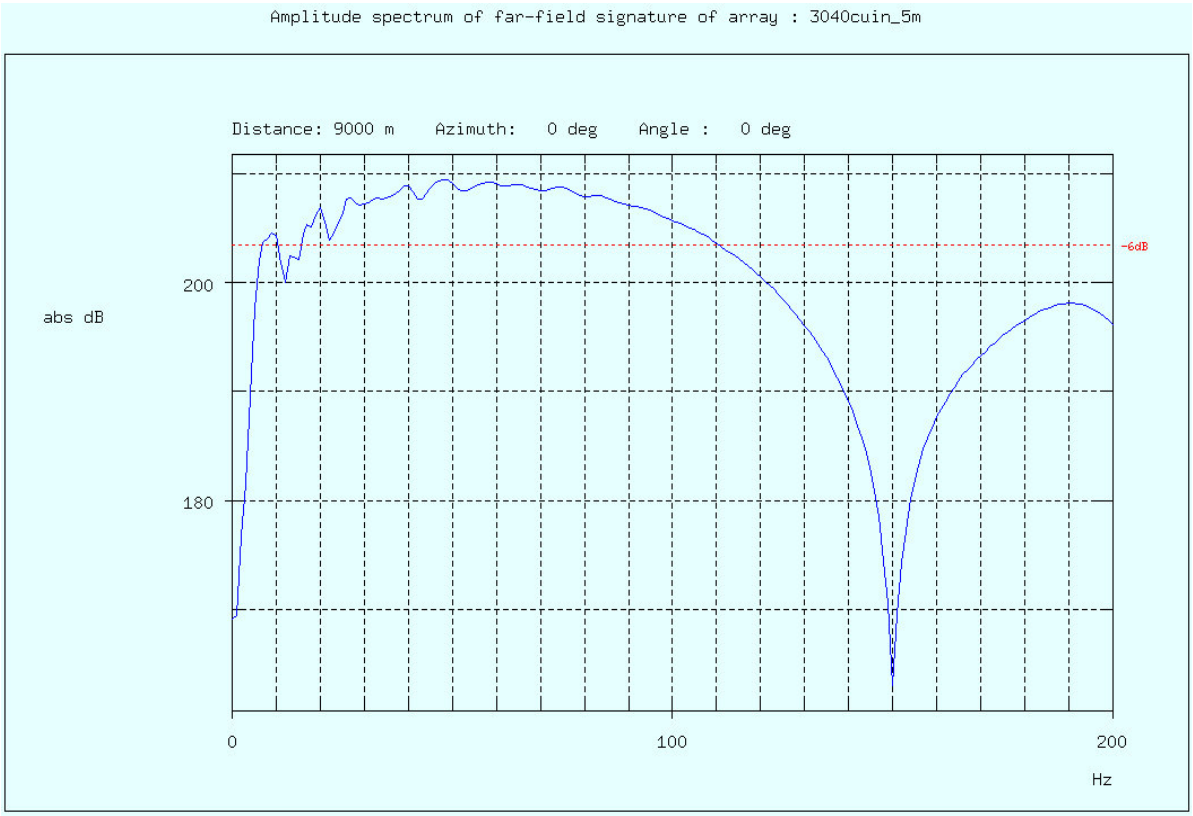
3.2. Source Layout



3.3. Pulse Response




Far-field signature of array : 3040cuin_5m
Distance: 9000 m Azimuth: 0 deg Angle : 0 deg
bar m
40
20
0
-20
-40
0
200
msec
Primary : 42.4 barm
Peak-peak : 88.0 barm
P/B ratio : 25.0
Period (+/-) : 104.0/ 126.0 msec
Source depth : 5.00 m
Streamer depth : 0.00 m
Filter: out - 200.0/370 Sercel SEAL m
Volume : 3040 cu.in.
Pressure : 2000 psi
Ghost strength : -1.00
Sea temperature : 13.00 C
Water velocity : 1500.4 m/s


Amplitude spectrum of far-field signature of array : 3040cuin_5m
Distance: 9000 m Azimuth: 0 deg Angle : 0 deg
abs dB
200
180
-6dB
0
100
200
Hz

4. Instrumentation Room System Diagram