

RAW DATA REPORT

KING 1

T/18P

BASS BASIN

SAGASCO RESOURCES LIMITED

November 1992

OR-303

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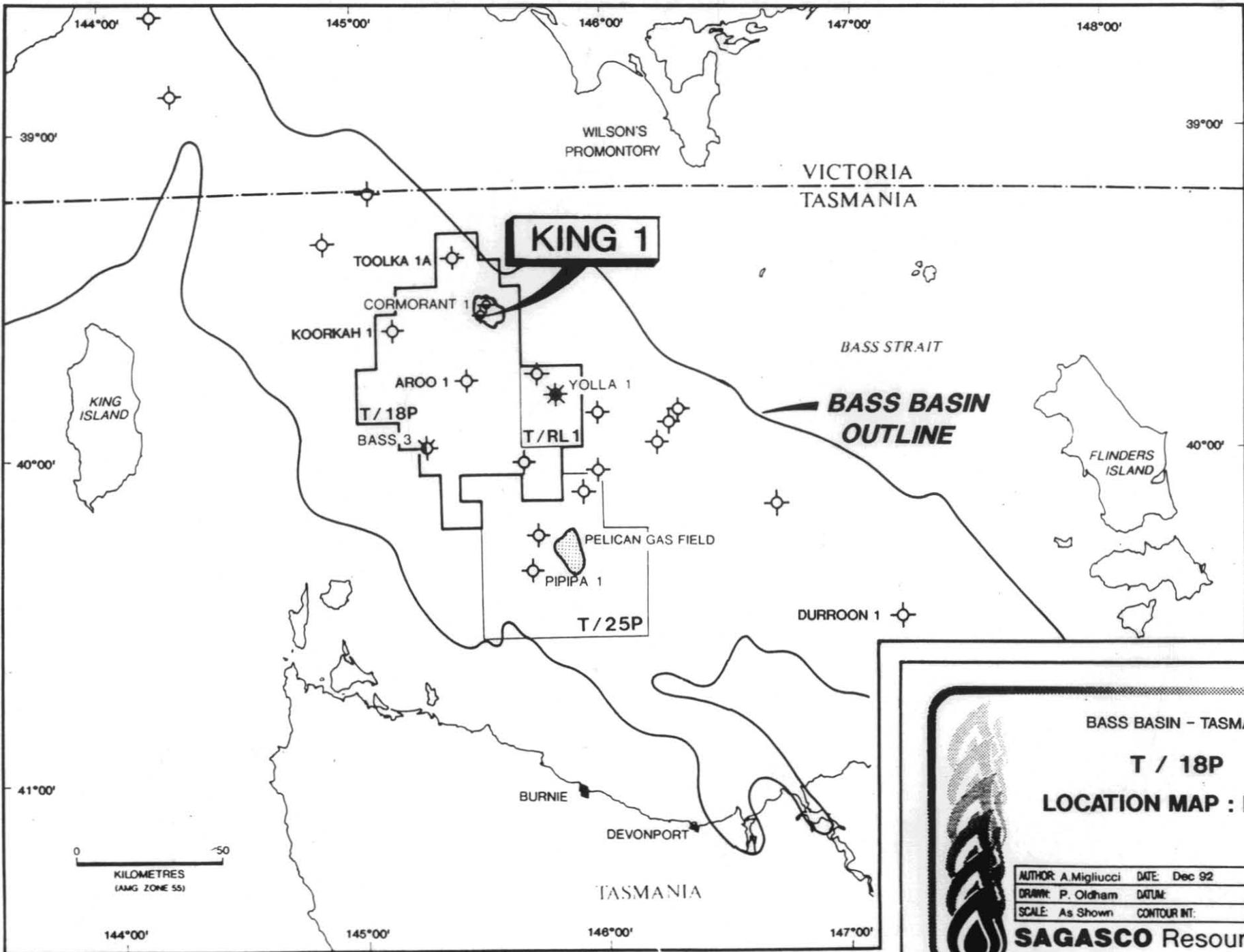
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5 cm



0 50
KILOMETRES
(AMG ZONE 55)

BASS BASIN - TASMANIA

T / 18P

LOCATION MAP : KING 1

AUTHOR: A. Migliucci	DATE: Dec 92	PLAN No: KG000.8549
DRAWN: P. Oldham	DATUM:	CHECKED:
SCALE: As Shown	CONTOUR INT:	FIG: 1

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PH 236 3737 Fax 223 1851 Interstate prefix 08 International prefix 618 A.C.N. 007 045 338

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MRC9211051-ACM

1 PRELIMINARY WELL CARD

WELL: KING 1		WELL CATEGORY: EXPLORATION				SPUD: 1500hrs 30/10/92 RIG RELEASED: 1730hrs 27/11/92 STATUS: Plugged and Abandoned TYPE COMPLETION: Nil		
PERMIT:	T/18P	PROSPECT TYPE: Crestal test of the Cormorant Anticline				PARTICIPANTS:		
BASIN:	Bass							
LAT:	39°35'24.331"S	SAGASCO Resources Ltd (Operator) 55 % Gas & Fuel Exploration NL 20 % Cultus Petroleum NL 15 % Petroz NL 10 %				CASING SIZE (mm)	SHOE DEPTH	TYPE
LONG:	145°31'08.780"E					762 (30")	127m	B
SEISMIC STN:	SP300 HB77A-306	Cultus Petroleum NL 15 % Petroz NL 10 %				340 (13 1/2")	394.4m	K-55
TD:	2223m Rt					244 (9 5/8")	1237m	N-80
WATER DEPTH:	72.5m							
RT:MSL:	22.3m							
RIG:	Ocean Epoch							
AGE	FORMATION	PROGNOSED DEPTH (m)		ACTUAL DEPTHS (m)		THICKNESS (m)	(H)IGH/(L)OW	
		RT	SS	RT	SS			
Upper Eocene	Demons Bluff	1057.3	-1035	1051	1028.7	240.3	6.3m H	
Eocene	Eastern View Coal Measures	1291	-1269	1291	-1269	+932m	0m	
LOG		RUN #		INTERVAL (m)		MAX.T(°C)		
Intermediate Logging Run DLL-LSS-MSFL-CAL-GR-DTD		1A		394.4-1239.2m GR to mudline		56.6		
Final Logging Run HRI-MSFL-LSS-CAL-DTD		2A		1239.2-2225.2m(L)		88.33		
SLD-DSN-CSNG-CAL-DTD-MLL		2B		1239.2-2225.2m(L)		92.22		
HFDT-GR		2C		1239.2-2225.2m(L)		100.00		
SED		2D		1239.2-2225.2m(L)		102.20		
SFT		2E, F, G, H		1239.2-2122m(L)		88.30		
VSP		2I		1900mRT - Sea bed		-		
CORES								
FORMATION	NO:	INTERVAL (MRT)		CUT	REC(m)	REC (%)		
EVCN	1	1397-1402		5m	3.5	70%		
EVCN	2	1402-1410.5		8.5m	5.7	67%		
EVCN	3	1423.5-1434		10.5m	9.4	89%		
EVCN	4	1434-1440		6m	5.0	83%		
LOG INTERPRETATION								
INTERVAL (m)		ϕ				Sw		
2049-2054		20%				56%		
FORMATION TESTS (SFT)								
NO:	INTERVAL (MRT)	IHP (PSIG)	ISIP (PSIG)	IFP (PSIG)	FFP (PSIG)	FSIP (PSIG)	FHP (PSIG)	RECOVERY
2	1436.25	2409	2095.5	1948	1948	2095	2410	9.8 L cloudy water
3	1460.0	2451	2128.5	2071	2076	2130	2452	9.8 L cloudy water
4	2053	3423	2983.5	2608	2541	2983.5	3425	Slightly oily scum with very dull yellow-brown fluorescence
NOTES:								Despite the occurrence of good reservoir quality sands in the upper EVCN and encouraging hydrocarbon shows, SFT data and electric logs show the sands to be water saturated. No SWC's were conducted. The well was plugged and abandoned.

AUTHOR: AC MIGLIUCCI

Date 29 November 1992

2 **DAILY REPORTS**

2.1 Geological



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DAILY GEOLOGICAL REPORT

DATE: 4th November 1992

WELL: KING-1

Page 1

DEPTH (2400):	448m	PROGRESS:	43m	DAYS FROM SPUD:	6		
OPERATION at 0600:	Drilling at 566m						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:			
LAST CASING DEPTH:	394.4m	LOT/FIT:	14.38	EST PP:	8.7		
MUD	WT: 1.05	VISC: 32	WL: > 40	pH: 8.5	CL: 16K NO ₃ :		
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT	3	Smith	FDS		drilling	-
	LAST	2	Smith	DSJ	13	209	1/1/In
SURVEYS:							
PREVIOUS 24 HOURS OPERATIONS: L/O 17½ bha. Test choke manifold. Rig up and test surface equipment. P/U drillpipe. M/u 12¼ bha, RIH. Break circ and test diverter. Tag cmt at 359m Drill out cmt to 373m. Test casing to 1500psi. Drill out cmt & shoe, and shoe track to 405m with seawater. Displace hole to mud, drill to 407m. Perform LOT. Drill ahead.							
5/11 Drill 12¼" hole to 566m.							
ANTICIPATED NEXT 24 HRS: Drill 12¼" hole							
FORMATION TOPS: -							
CUTTINGS DESCRIPTIONS							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					
405 - 430	0.5-3.0 AV 1.1 mins/m	Limestone: 90 -100% Off white to cream, calcarenite to predominantly bioclastic, medium to very coarse grained, slightly argillaceous, common glauconite, abundant shell fragments and Forams, friable to occasionally hard, poor to fair intra particle porosity, No show. Claystone: 0 -10% Yellow brown to brown, slightly silty, limonitic, firm to hard, blocky. Gas: Nil					



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DAILY GEOLOGICAL REPORT

DATE: 4th November 1992

WELL: KING-1

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CUTTINGS DESCRIPTIONS		
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
430 -540	0.8-4.1 av 2.0 mins/m	<p>Claystone: 60 - 100%, Light grey, occasionally brownish or greenish, locally medium grey, generally non to slightly calcareous, trace pyrite nodules, trace to common Forams and shell debris, soft to firm, sticky, soluble to dispersive.</p> <p>Limestone: 0 - 40%, Generally as above, bioclastic, friable to unconsolidated, fair intra porosity, No show.</p> <p>Gas: Background gas 0-8 units 100% C₁</p>



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A.C.N. 007 845 338

DAILY GEOLOGICAL REPORT

DATE: 5th November 1992

WELL: KING-1

DEPTH (2400):	1013m	PROGRESS:	565m	DAYS FROM SPUD:	7		
OPERATION at 0600:	Drilling at 1059m						
RIG:	Ocean M Epoch	AFE:		COST TO DATE:	\$-		
LAST CASING DEPTH:	394.4m	LOT/FIT:	14.38ppg	EST PP:	1.032		
MUD	WT: 1.07	VISC: 47	WL: 22	pH: 8.4	CL: 20K	NO ₃ : Nil	
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	3	Smith	FDT			
SURVEYS: 0.5° @ 725m, 0.5° @ 867m, 0° @ 1029m							
PREVIOUS 24 HOURS OPERATIONS: Drill 12¼" hole to 1013m. 6/11. At 1017m, lost circulation after hole packed off. Work pipe and re-establish circulation. Drill ahead.							
ANTICIPATED NEXT 24 HRS: Drill ahead to casing point and log.							
FORMATION TOPS: None							
HYDROCARBON SHOW SUMMARY: <i>None</i>							



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DAILY GEOLOGICAL REPORT

DATE: 5th November 1992

WELL: KING-1

CUTTINGS DESCRIPTIONS		
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
540 - 730m	0.6 - 3.0 av 1.8 mins/m	Claystone: 100%, light grey slightly greenish or brownish in part, non to slightly calcareous in part, trace pyrite, trace glauconite, abundant forams and shell fragments, soft to firm, dispersive, sticky. Gas: Background gas 7-25 units 100% C ₁ . Peak @ 665-675m 30-40 units 100% C ₁ .
730 - 880m	0.8 - 10 av 3 mins/m	Limestone with interbedded Claystone. Limestone: 20 - 80 %, off white to cream, micro crystalline, very coarse grained to microcrystalline, bioclastic calcarenite, abundant glauconite, argillaceous in part, abundant forams and shell fragments, friable to hard, nil to poor intergranular porosity. No show. Claystone: 80 - 20%, generally as above, very shelly. Gas: Background 20-40 units, 100% C ₁ . Peak @ 865-875m 60-75 units, 99% C ₁ , 1% C ₂ .
880 - 1040m	0.6 - 4.5 av 1.5 mins/m	Claystone with thinly interbedded Limestone. Claystone: 20 - 80%, Generally as above becoming light brown in part. Limestone: 20 - 80%, light grey to light brownish grey, microcrystalline, calcarenite, ankeritic, hard, tight. No show. Gas: Background 40-50 units, 100% C ₁ , Tr C ₂ . Peak @ 965-975m 100-125 units, 100% C ₁ , Tr C ₂ .



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DAILY GEOLOGICAL REPORT

DATE: 6th November 1992

WELL: KING-1

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DEPTH (2400):	1246m	PROGRESS:	233m	DAYS FROM SPUD:	8		
OPERATION at 0600:	Running logs, DLL/MSFL/GR/SONIC						
RIG:	Ocean M Epoch	AFE:	203 6003	COST TO DATE:	\$--		
LAST CASING DEPTH:	394.4m	LOT/FIT:	14.38ppg	EST PP:	1.05-1.066		
MUD	WT: 1.12	VISC: 46	WL: 15.5	pH: 8.8	CL: 19K NO ₃ :		
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	3	Smith	FDS	34½	841	4/4/In
SURVEYS:							
<p>PREVIOUS 24 HOURS OPERATIONS: Drill 12¼" hole to 1017m. Pump pressure increased by 400psi, hole packed off. Loose 60 bbls of mud. Pull out to 758m with 30K of overpull, break circulation and wash and ream to bottom. Circulate b/u, drill to 1246m. Circulate the hole clean, pooh to the shoe strapping pipe. RIH. Circulate hole clean. Drop multi-shot survey. POOH.</p> <p>7/11 Continue POOH. M/U 9 5/8" casing hanger, and running tool and rack in derrick. Rig up HLS and log.</p>							
ANTICIPATED NEXT 24 HRS: Log 12¼" hole from 1246m. Run and cement 9-5/8" casing.							
FORMATION TOPS: Demons Bluff 1048mRT 1026mSS, 9m high to prognosis.							
HYDROCARBON SHOW SUMMARY:							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					



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DAILY GEOLOGICAL REPORT

DATE: 6th November 1992

WELL: KING-1

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CUTTINGS DESCRIPTIONS		
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
1013-1048	0.6 - 4.5 av 1.8	Claystone overlying a basal Sandstone. Claystone: 100-10%, Light grey to light brown, non to slightly calcareous, trace glauconite, shelly in part, trace pyrit, soft, soluble. Sandstone: 0-90%, Colourless, translucent to transparent, fine to coarse grained, predominantly medium, subangular to well rounded, good sphericity, moderately sorted, trace calcareous cement, clean, trace glauconite, friable to unconsolidated, good inferred porosity. No show. Gas: Bg 40 units 100% C1 Tr C2. Peak: 1043 - 1052 80 units, 99% C1 1% C2
1048-1140	1.5 - 4.0 av 1.8	Claystone, grading to argillaceous Siltstone. Claystone: 100% Brown to dark brown, non calcareous, carbonaceous, slightly silty, increasing with depth, soft, very soluble. Gas: Bg 55 units C1 96%, C2 4% No peaks.
1140-1246	1.5-6 av 3 mins/m	Siltstone grading in part to silty Claystone as above, with minor thin Sandstone and Dolomite stringers. Siltstone: 60-100%, Dark brown, very argillaceous, common very fine quartz, carbonaceous, bioturbated, common pyritised burrows, non to very calcareous in part, firm, soluble. Sandstone: 0-10%, Colourless to light brown, very fine grained, well sorted, subangular to rounded, common silty and argillaceous matrix, friable, fair porosity, no show. Dolomite: 0-20% Dark brown, cryptocrystalline, slightly argillaceous, very hard, blocky to splintery, no porosity, no show. Claystone: 0- 40% As above. Gas: Bg 35 units, C1 94% C2 6% Peak 1220 - 1240 48 units C1 94% C2 6%.

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DATE: 7th November 1992

WELL: KING-1

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DEPTH (2400):	1246m	PROGRESS:	0	DAYS FROM SPUD:	9		
OPERATION at 0600:	Cementing casing						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	--		
LAST CASING DEPTH:	1237m	LOT/FIT:	-	EST PP:	-		
MUD	WT: 1.12	VISC: 42	WL: 16.8	pH: 8.4	CL: 20,000	NO ₃ : Nil	
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	-	-	-	-	-	-

SURVEYS: -

PREVIOUS 24 HOURS OPERATIONS: POOH. Rig up HLS. Run DLL-MSFL-LSS-GR. Rig down HLS. Condition hole.

8/11 Run and cement casing.

ANTICIPATED NEXT 24 HRS: Test BOP and casing.

FORMATION TOPS: None

HYDROCARBON SHOW SUMMARY

INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
None		

CUTTINGS DESCRIPTIONS

INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
None		



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DAILY GEOLOGICAL REPORT

DATE: 8th November 1992

WELL: KING-1

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DEPTH (2400):	1246m	PROGRESS:	0m	DAYS FROM SPUD:	10		
OPERATION at 0600:	RIH w/ 8 1/2" bha, picking up drill pipe.						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	--		
LAST CASING DEPTH:	1237m	LOT/FIT:	--	EST PP:	--		
MUD	WT: 1117	VISC: 96	WL: 10.2	pH: 10.2	CL: 2500	NO ₃ : 0	
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	4	Smith	FDGH	-	-	-

SURVEYS: NOTE MUD DATA RELATES TO A CONCENTRATED MIX YET TO BE DILUTED PRIOR TO DRILLING.

PREVIOUS 24 HOURS OPERATIONS: Continue running 9 5/8" casing, landed at 1237m, break circulation and cement w/ a lead slurry of 646sx mixed to 1581kg/m³ and a tail of 282sx mixed to 1892kg/m³ as per program. Pressure test BOPs, choke and kill lines. Set wear bushing on 2nd attempt. Test surface equipment. L/o 12 1/4" bha, p/u 8 1/2" drilling assembly.

9/11 Continue p/u 8 1/2" bha and drill pipe.

ANTICIPATED NEXT 24 HRS: Continue p/u drillpipe, drill out cement, perform leak off, drill to core point.

FORMATION TOPS: None

HYDROCARBON SHOW SUMMARY

INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
None		

CUTTINGS DESCRIPTIONS

INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
None		



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DATE: 9th November 1992

WELL: KING-1

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DEPTH (2400):	1300m	PROGRESS:	53m	DAYS FROM SPUD:	11		
OPERATION at 0600:	Drilling 8½" hole at 1379m.						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	--		
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1030 kg/m ³		
MUD	WT: 1117k g/m ³	VISC: 26	WL: 7.2	pH: 10.5	CL: 4500 NO ₃ : In180 Out 140		
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	4	Smith	SDGH			
SURVEYS:							
PREVIOUS 24 HOURS OPERATIONS: Continue p/u 8½" bha. P/u drillpipe. RIH and tag cement at 1192m. Drill out cement, plug, float, shoe and shoe track. Drill 2m of new hole to 1249m, displace to freshwater mud and circulate until even density all round. Drill ahead							
10\11 Drill 8½" hole to 1379m.							
ANTICIPATED NEXT 24 HRS: Drill to core point. Pooh to cut core #1							
FORMATION TOPS: Eastern View Coal Measures 1291m RT 1269mSS 0m high to prognosis							
HYDROCARBON SHOW SUMMARY							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					



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DAILY GEOLOGICAL REPORT

DATE: 9th November 1992

WELL: KING-1

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CUTTINGS DESCRIPTIONS		
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
1247 - 1291	.95 -6 mins/m	<p>Claystone with occasional minor interbedded Siltstone and Sandstone. Claystone: 100-80% Dark brown, becoming brown to light brown with depth, non calcareous, trace pyrite, very silty in part, micromicaceous, soluble, dispersive, very soft. Siltstone: 0-10% Dark greenish grey, slightly calcareous, glauconitic, firm to hard, blocky. Sandstone: 0-10% Brown, very fine to silt, poor to moderately sorted, subround, good sphericity, weak siliceous cement, abundant brown matrix, trace glauconite, trace lithic grains, friable, trace visible porosity, no show. GAS BG 4 Units, C1 95% C2 5% No Peaks</p>
1291 - 1374	1 -6 mins/m	<p>Interbedded Claystone, Siltstone and Sandstone. Claystone: 60-100% Light brown to brown, silty in part, non calcareous, micromicaceous, soluble, dispersive, very soft to soft. Siltstone: 0-20% light brown to brown, slightly calcareous in part, sandy, argillaceous, carbonaceous in part, micromicaceous in part, firm to hard, blocky. Sandstone(1): 0-30% Clear, translucent, occasionally milky, medium to very coarse, predominantly coarse, subround to round, occasionally well rounded, subspherical, moderate to predominately well sorted, unconsolidated, trace pyrite cement, common argillaceous coatings on grains, good inferred porosity, no show. Sandstone(2): 0-10% Light grey to light brown, very fine to fine, subround, well sorted, weak to strong dolomitic cement, moderate argillaceous matrix, occasionally clean, friable, very poor porosity, no show. Gas BG 3 Units C1 98% C2 2% No peaks.</p>



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DAILY GEOLOGICAL REPORT

DATE: 10th November 1992

WELL: KING-1

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DEPTH (2400):	1402m	PROGRESS:	102m	DAYS FROM SPUD:	12		
OPERATION at 0600:	Cutting core #2						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	--		
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1030kg/m ³		
MUD	WT: 1117 kg/m ³	VISC: 58	WL: 5.2	pH: 8.9	CL: 6500	NO ₃ : Out 110	
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	5 4	DBS Smith	CD-93 FDGH	10½	5 151	G, In 3,5,ER,A, E,1/16,SD, CP
SURVEYS: None							
PREVIOUS 24 HOURS OPERATIONS: Drill 8½" hole to 1397m, Circulate out drilling break from 1394m. POOH and p/u the core barrel. RIH and cut core #1 from 1397 to 1403m. Pooh due to core jamming off. 11/11 Continue POOH and recover the core. Dress barrel and run in to cut core #2.							
ANTICIPATED NEXT 24 HRS: Cut core #2 & #3.							
FORMATION TOPS: None							



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DAILY GEOLOGICAL REPORT

DATE: 10th November 1992

WELL: KING-1

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CUTTINGS DESCRIPTIONS		
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
1374-1394 m	6 - 2.5 mins/m	<p>Massive Claystone.</p> <p>100% Claystone: light brown to light grey brown, non calcareous, micromicaceous, occasional carbonaceous and coaly microlaminations, soft, dispersive, trace clear coarse quartz grains in part.</p> <p>Gas: BG 2units C₁ 95%, C₂ 5%</p>
1394-1397 m	3 - .55 mins/m	<p>Siltstone grading to Sandstone.</p> <p>Siltstone: light grey, argillaceous, micromicaceous, sandy, 100% PATCHY DULL TO OCCASIONALLY MODERATELY BRIGHT YELLOW WHITE FLUORESCENCE WITH OCCASIONAL GOLD SPECKS, VERY SLOW STREAMING MILKY WHITE CUT, STRONG INSTANT MILKY WHITE CRUSH CUT, THIN TO MODERATE RING RESIDUE.</p> <p>Sandstone: colourless, translucent - transparent; initially very coarse to coarse, becoming fine to very fine with depth, well sorted, subround to round, subspherical, clean loose, unconsolidated quartz, clay residue on coarse grains, fair to good porosity 80% VERY DULL UNIFORM YELLOW WHITE FLUORESCENCE, WEAK CRUSH CUT, THIN RING RESIDUE.</p> <p>Gas: 11-14 units, C₁ 93% C₂ 7%.</p> <p>Core #1 1397-1402 m (5m) Recovered 3.5 m (70%).</p>
1397-1400.5 m	42 - 5 mins/m	<p>Sandstone with interbedded Siltstone.</p> <p>Sandstone, off white to light brown, very fine grained, well sorted, subangular, subspherical, weak siliceous cement, clean with trace interstitial clay, common mica, common altered feldspars, minor lithic fragments, friable, poor to predominantly good porosity.</p> <p>HYDROCARBON SHOW DESCRIPTION as for 1394-1397 m.</p> <p>Siltstone, light brown to light grey brown, dark brown to dark brownish grey, argillaceous, non calcareous, micromicaceous, carbonaceous specks, scattered very coarse quartz grains in part, very friable to firm, sticky.</p> <p>HYDROCARBON SHOW DESCRIPTION as for 1394-1397 m.</p> <p>Gas: 8.5 to 11.5 Units C₁ 96% C₂ 4%.</p>



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DAILY GEOLOGICAL REPORT

DATE: 11th November 1992

WELL: KING-1

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DEPTH (2400):		1423.5	PROGRESS:		21.5	DAYS FROM SPUD:		13
OPERATION at 0600:		Circulating prior to cutting core 3						
RIG:	Ocean M Epoch		AFE:	7,525,200		COST TO DATE:		--
LAST CASING DEPTH:		1237m		LOT/FIT:		1701kg/m ³	EST PP:	1030kg/m ³
MUD	WT: 1138k g/m ³	VISC: 54	WL: 5.3	pH: 8.9	CL: 5500	NO₃: Out 240		
			No	Make	Type	Hours	Metres	Condition
BIT INFORMATION		PRESENT	5	Smith	F1	2	13	New
		LAST	CB	DBS	CD93	1	8.5	New
SURVEYS:								
<p>PREVIOUS 24 HOURS OPERATIONS: POOH and recover core 1; cut 5m , rec 3.5m 70%. Dress barrel and RIH to cut core 2 from 1402m to 1410.5m, where the core jammed off. POOH and recover core 2, Cut 1402 - 1410.5m, Rec 5.7m, 67%. RIH and drill to 1423.5m, circulate sample from drilling break 1419m -1423.5m to surface. POOH to pick up core barrel.</p> <p>12/11 RIH to the shoe. Cut and slip 711ft of line. Continue RIH to TD and circulate.</p>								
ANTICIPATED NEXT 24 HRS:		Cut and recover core #3. Drill to core point for core #4.						
FORMATION TOPS:								
HYDROCARBON SHOW SUMMARY								
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS						
CUTTINGS DESCRIPTIONS								
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS						



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A.C.N. 007 845 338

DAILY GEOLOGICAL REPORT

DATE: 11th November 1992

WELL: KING-1

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		Core #2 1402-1410.5m Cut 8.5m, recovered 5.7m (67%). Note: Core recovered in glass fiber sleeve.
1402- 1407.7m	3-28 min/m	Siltstone with interbedded Sandstone.
1402m		Siltstone: grey to brown grey very argillaceous, micromicaceous, non calcareous, firm subfissile. No show.
1403m		Siltstone: As above with no show.
1404m		Siltstone: As above with very fine sandy microlaminations, trace pyrite, no shows.
1405m		Sandstone: very light grey, off white, brownish in part, very fine to silt grained, well sorted, subround to round, moderate to good sphericity, trace cement, trace interstitial clay, trace feldspar with lithic grains, friable, good porosity. Show: 80% patchy dull yellow fluorescence, instant to slow blooming milky white cut, thin colourless residue film, with petroleum odour.
1406m		Siltstone: grey brownish grey, argillaceous, micromicaceous, trace pyrite nodules, scattered very coarse quartz grains, trace carbonaceous specks, laminated. No show.
1406.8m		Sandstone: off white, very fine grained, subround to round, good sphericity, very well sorted, trace to nil cement, trace interstitial clay, generally clean, friable, good porosity. Show: strong petroliferous odour, 100% very dull uniform yellow fluorescence, instant slow blooming moderate bright milky cut fluorescence, thin colourless film residue.
1407.7m		Siltstone: grey/brown grey, non calcareous, micromicaceous, firm. No show. Gas: BG 1 unit C ₁ 96% C ₂ 4%
1410.5-423.5	1.5-19 min/m	Argillaceous Siltstone with interbedded sandstone. Siltstone: 60% as above, very argillaceous. No show. Sandstone: 40% colourless, occasionally stained orange, transparent occasionally translucent, very fine to predominantly fine, rounded to angular, mostly subround, well sorted, poor to moderate sphericity trace cement, trace to locally common white clay matrix in aggregates, predominantly clean loose quartz, common to abundant mica (5-10%), good inferred porosity. 10% spotty and pinpoint dull to moderately bright yellow fluorescence, trace milky white cut, trace residue. Gas: BG 1 unit C ₁ 95% C ₂ 4% Peak from 1419 to 1423.5, 2-3 units, C ₁ 73% C ₂ 27%



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DEPTH (2400):	1440m	PROGRESS:	16.5	DAYS FROM SPUD:	14		
OPERATION at 0600:	Drilling 8½" hole, at 1534m.						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	--		
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m³	EST PP:	1030kg/m³		
MUD	WT: 1138	VISC: 56	WL: 5.6	pH: 9.1	CL: 5500	NO ₃ : In 50 Out 50	
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT	RR5	Smith	F1	-	-	-
	LAST	CB	DBS	CD 93	1.5	6	New
		CB	DBS	CD 93	2	10.5	New
SURVEYS:							
<p>PREVIOUS 24 HOURS OPERATIONS: RIH to the casing shoe, cut and slip 711' of drill line. Continue running in the hole and cut Core #3 from 1423.5 - 1434m, where the core packed off. POOH and recover Core #3, 1423.5 - 1432.9m, 89%. RIH and cut Core#4 from 1434 - 1440m. Poolh and recover core #4, 1434 - 1439m, 83%. Dress core barrel and RIH with a bit</p> <p>13/11 RIH washed down through cored interval. Drill ahead.</p>							
ANTICIPATED NEXT 24 HRS: Drill 8½" hole							
FORMATION TOPS:							
HYDROCARBON SHOW SUMMARY							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					



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1423.5 - 1438.3	2.8-10.5	<p>Interbedded very fine sands and silts with occasional coarse sands. See Core Reports.</p> <p>Siltstone: Light grey < trace mica, trace feldspar and carbonaceous specks, argillaceous in part, unconsolidated, poor porosity, no show</p> <p>Sandstone (1) light grey to off white, very fine grained, well sorted, subround to round, good sphericity, unconsolidated, common mica, Trace black carbonaceous specks, trace interstitial clay, friable, poor porosity, no show.</p> <p>Sandstone (2) Light brown, coarse grained, subangular to angular, well sorted, very weak cement to nil cement, generally grain supported, trace grey cherty lithic grains, clean, Trace clay and silt at points of grain contact, very friable, excellent porosity, 70 -100% UNIFORM TO PATCHY MODERATELY BRIGHT PALE YELLOW FLUORESCENCE, (probably flushed by filtrate) WITH BRIGHT YELLOW GOLD SPOTS, INSTANT BRIGHT WHITE STREAMING CUT, MODERATE LIGHT BROWN FILM RESIDUE, VISUAL LIGHT BROWN OIL WITH MODERATE PETROLIFEROUS ODOUR. Gas Tg 1.9 - 3.4 units, C1 93% C2 7%.</p> <p>Sandstone with occasional interbedded Coal and Claystone.</p> <p>Sandstone: 50 - 100% Colourless, very fine to very coarse, predominantly fine to medium, generally moderately sorted, angular to well rounded generally with increasing grain size, unconsolidated quartz, clean, trace mica, good inferred porosity, NO Show except between 1452 - 1464m, TRACE TO 50% MODERATELY BRIGHT PIN POINT YELLOW WHITE FLUORESCENCE, TRACE MILKY CUT, TRACE COLOURLESS RESIDUE.</p> <p>Coal: 0 - 10% Very dark brown to black, Soft to firm, Dull, subblocky, Lignitic to sub-bituminous.</p> <p>Claystone; 0 - 50% off white to light grey, becoming predominantly light brown with depth, micromicaceous, carbonaceous specks. very soft, dispersive, Gas TG 3 units C1 71% C2 20% C3 3% C4 3% C5 3%. Ratios vary every 5 - 10m, this maybe due to the very low traces being recorded. Peak 1463 - 1467m 5-10 units, C1 88 C2 9% C3 1% C4 1% C5 1% Peak 1501 - 1503m 3 - 8 units. C1 85% C2 7% C3 1% C4 2% C5 5%</p>
1438.3 - 1530	1.5- 12	



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DEPTH (2400):	1734	PROGRESS:	294	DAYS FROM SPUD:	15		
OPERATION at 0600:	Pooh on the wiper trip.						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	---		
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1030kg/ft ³		
MUD	WT: 1127	VISC: 55	WL: 6.8	pH: 9.0	CL: 4000 NO ₃ : Out 250		
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	RR5	Smith	F1	-	-	-
SURVEYS:							
PREVIOUS 24 HOURS OPERATIONS: RIH and washed down through cored interval. Drill ahead to 1734m, circulate bottoms up. 14/11 Make a wiper trip to the shoe. Very tight back ream out.							
ANTICIPATED NEXT 24 HRS: Complete wiper trip and drill ahead.							
FORMATION TOPS:							
HYDROCARBON SHOW SUMMARY							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					
CUTTINGS DESCRIPTIONS							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					



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1530 - 1599	1.5 - 12 av 4	Predominantly Claystone with occasional thin Sandstone, Siltstone and minor Coal beds.
		<p>Claystone: 70 - 100%, light brown, occasionally off white, micromicaceous, non calcareous, locally silty, carbonaceous specks, soft, dispersive.</p> <p>Sandstone: 0 - 10% Colourless, subangular to angular fine quartz, rarely rounded coarse grains, clean, trace clay adhering to coarse grains, loose unconsolidated quartz, fair inferred porosity, no show.</p> <p>Coal: 0 - 10%, Black - very dark brown, firm, dull, platy to sub-blocky.</p> <p>Siltstone: 0 - 20% Off white, very argillaceous, micromicaceous, soft, TRACE - 50% MODERATELY BRIGHT PATCHY YELLOW FLUORESCENCE, TRACE CUT.</p> <p>Gas ;Bg 3 units Variable Ratios, C1 71% C2 5% C3 3% C4 6% C5 14%. No Peaks.</p> <p>Claystone with interbedded thin Coals and occasional Silty Claystone.</p>
1599 - 1710	1.5 - 7.5 av 3	<p>Claystone, 70 - 100% Generally as above but predominantly light brown. Coal, 0 - 20% Black, occasionally dark brown, dull, firm to hard, blocky, subconchoidal fracture, lignitic.</p> <p>Silty Claystone, 0 - 10% Off white, very silty, micromicaceous, laminated, soft, plastic, non calcareous, TRACE MODERATELY BRIGHT YELLOW TO YELLOW BROWN FLUORESCENCE, TRACE CUT.</p> <p>Gas: Bg 10 units, C1 73% C2 13% C3 8% C4 6%.</p> <p>Peaks: 1625 - 1632m 10 - 28 Units, C1 69%, C2 16%, C3 9%, C4 5%, C5 1%.</p> <p>1651 - 1654m 10 - 25 units, C1 61%, C2 18%, C3 9%, C4 11%, C5 1%.</p> <p>1676 - 1678m 10 - 29 units, C1 62%, C2 14% C3 10%, C4 12%, C5 2%.</p> <p>1683 - 1688m 12 - 30 units, C1 53%, C2 14%, C3 11%, C4 16%, C5 6%.</p> <p>1695 - 1702m 10 - 60 units, C1 71%, C2 15%, C3 7%, C4 6%, C5 1%.</p> <p>Intebded Claystone and Sandstone with minor thin Coals.</p> <p>Claystone: 30 - 70% Light brown, occasionally off white, micromicaceous, carbonaceous specks and laminae, soft, plastic, dispersive, locally silty or sandy.</p>
1710 - 1734m	1.5 - 5 Av 3	<p>Sandstone: 30 - 60% Colourless, off white, translucent to transparent, very fine to medium, predominantly fine, occasionally coarse, angular, subspherical to spherical, weak siliceous cement with trace quartz overgrowths, common white interstitial clay, trace mica, rare pyrite, friable to generally loose, poor visual porosity, generally no show, OCCASIONALLY TRACE TO 10% 10% OD M 10% OD M PATCHY TO MODERATELY BRIGHT YELLOW FLUORESCENCE, TRACE TO MODERATE MILKY WHITE CRUSH CUT, TRACE RING RESIDUE.</p> <p>Coal: 0 - 20% Black to brown black, firm, blocky - platy, lignitic.</p>



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		<p>MODERATELY BRIGHT YELLOW PATCHY FLUORESCENCE, TRACE TO MODERATE MILKY WHITE CRUSH CUT, TRACE RING RESIDUE.</p> <p>Coal: Black - brown black, firm, blocky to platy, lignitic.</p> <p>Gas Bg 10units, C1 73%, C2 10%, C3 8%, C4 4%, C5 5%.</p> <p>Peak, 1725 - 1728m 10 - 15 units, C1 75%, C2 10%, C3 10%, C4 5%, C5 -.</p>



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DEPTH (2400):	1888m	PROGRESS:	154m	DAYS FROM SPUD:	16
OPERATION at 0600:	Drilling ahead at 1964m.				
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	---
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1030kg/ft ³
MUD	WT: 1117	VISC: 50	WL: 5.4	pH: 9.5	CL: 3600
					NO₃: In +250 Out +250
		No	Make	Type	Hours
					Metres
					Condition
BIT INFORMATION	PRESENT LAST	RR5	Smith	F1	29
					448
					-
SURVEYS:	1834m 0.75 deg. inclination @ 030 azimuth.				
PREVIOUS 24 HOURS OPERATIONS: At 1734m, circulate bottoms up and flush the riser. Make a wiper trip to the shoe. Very tight back ream out the following intervals, 1701 - 1591m, 1516 - 1415m, 1384 - 1327m with tight spots at 1586m, 1557m, and 1516m. Ream from 1688m - 1734m when running back to bottom. Drill ahead to 1869m and make another wiper trip to 1680m. Drill ahead. 15/11 Drilling 8½" hole.					
ANTICIPATED NEXT 24 HRS: Drill ahead to TD.					
FORMATION TOPS:					
HYDROCARBON SHOW SUMMARY					
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS			
CUTTINGS DESCRIPTIONS					
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS			



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1734 - 1770	1.5 -8 mins/m	<p>Claystone with thin interbeds of Coal, Siltstone and Sandstone.</p> <p>Claystone: 30 - 90% Light brown, pale orangy brown to tan, occasionally off white, micromicaceous, carbonaceous specks and laminae, soft, plastic, dispersive, locally silty or sandy.</p> <p>Sandstone: 10 - 20% Colourless, translucent, very fine to medium, predominantly fine, occasionally coarse, angular to subangular, occasionally round, subspherical, weak siliceous cement with trace quartz overgrowths, trace to common white interstitial clay, trace mica and feldspar, friable, fair to poor visual porosity, no show.</p> <p>Coal: 0 - 20% Black to brown black, firm, blocky - platy, occasionally argillaceous lignitic.</p> <p>Siltstone: Off white, argillaceous matrix, non calcareous, soft, occasionally dolomitic and hard, sandy in part, grading to silty sandstone in part.</p> <p>Gas: Bg 8 units C1 65%, C2 9%, C3 8%, C4 17% C5 1%</p> <p>Peak at 1755m 15-40 units C1 59%, C2 10%, C3 8%, C4 20%, C5 3.</p>
1770 - 1802	1.5 -7 mins/m	<p>Sandstone with occasional minor thin Coals and Claystone.</p> <p>Sandstone: Colourless, translucent, predominantly very fine to fine, locally dominantly medium to coarse, generally well sorted, subangular to subround, weak siliceous cement, trace clay matrix, trace mica, trace feldspars, friable to predominantly loose, good to fair inferred porosity, no show.</p> <p>Coal: as above.</p> <p>Claystone: As above.</p> <p>Gas: Bg 8 units, C1 64%, C2 11%, C3 15%, C4 7%, C5 3%.</p> <p>No Peaks.</p>
1802 - 1848	1.5 -7 mins/m	<p>Interbedded Siltstone, Sandstone and Claystone with minor Coal.</p> <p>Siltstone: White to off white, locally light grey brown, argillaceous with common very fine quartz, trace mica, soft, friable.</p> <p>Claystone: Light grey brown to light brown, non calcareous, carbonaceous microlaminations, silty, soft to firm, laminated.</p> <p>Sandstone: Light brown to off white, colourless, very fine to fine, angular to subround, subspherical to spherical, well sorted, weak siliceous cement, local weak calcareous cement, common white and brown argillaceous matrix, coaly microlaminations, trace mica, friable, trace to nil porosity, no show.</p> <p>Coal: Black, subvitreous to dull, firm to hard, blocky.</p> <p>Gas Bg 10 units. C1 66%, C2 8%, C3 7%, C4 16%, C5 3%.</p> <p>Peak 20 units at 1827m, C1 73%, C2 12%, C3 7%, C4 2%, C5 6%.</p>



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1848 - 1892	1.5 - 4.5 mins/m	Claystone, As above, with minor interbedded thin Coal and Sandstone beds, as above. Gas Bg 13 units, C1 72%, C2 12%, C3 8%, C4 7%, C5 1%. Peak at 1868m 28units, C1 75%, C2 13%, C3 8%, C4 3%, C5 1%.
1892 - 1956	2 -9 mins/m	Predominantly Claystone with occasional thick Sandstone beds and Coal. Claystone: Light grey brown to off white, silty, micromicaceous, soft, dispersive. Sandstone: Colourless to white, very fine to fine, grades rapidly at the base to coarse grained, well sorted, subround, spherical, weak siliceous cement, white interstitial clay, trace mica and carbonaceous specks, friable to loose, poor to fair inferred porosity, No show. Coal: Black to grey black, dull, firm to hard, platy to blocky. Gas BG 10 units, C1 81%, C2 9%, C3 7%, C4 2%, C5 1%. Peaks 1897m 156 units, C1 83%, C2 9%, C3 5%, C4 2%, C5 1%. 1925m 46 units, C1 82%, C2 9%, C3 4%, C4 3%, C5 2%. 1955m 47 units, C1 81%, C2 11%, C3 6%, C4 2%, C5 Tr.



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DEPTH (2400):	2041m	PROGRESS:	153m	DAYS FROM SPUD:	17
OPERATION at 0600:	Pressure teting BOP and Surface Equipment				

RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	---	
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1030kg/m ³	
MUD	WT: 1118 kg/m ³	VISC: 50	WL: 5.8	pH: 9.0	CL: 4000	NO ₃ : In +250 Out +250

		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT	6	Smith	F1	49	601	22btm123ei /jd/st
	LAST	5	Smith	F1			

SURVEYS: Misrun at 2041m

PREVIOUS 24 HOURS OPERATIONS: Drill to 2041m and circulate bottoms up. Drop survey and POOH. Back ream from 2041 to 1586m, hole good from 1586 to 1237m. Flow check at the shoe. Pooh. RIH to pull wear bushing

16/11 RIH and set test plug. Test BOPs.

ANTICIPATED NEXT 24 HRS: Complete testing. RIH with new bit 6 and drill to TD.

FORMATION TOPS: None



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1956 - 2006m	2-11.5 mins/m	Predominantly Claystone with occasional interbeds of Siltstone. Sandstone and Coal.
<p>Claystone: 30-100%, light to medium brown to grey brown, occasionally off white, micromicaceous, silty, coaly microlaminations, very soft to firm, dispersive, subfissile in part, occasional dolomitic concretions, locally common silt and sand laminations.</p> <p>Coal: 0-30%, black, dull, hard, brittle, hackly fracture, slightly argillaceous in part, platy to blocky.</p> <p>Siltstone: 0-30%, off white to light grey brown, argillaceous matrix, micromicaceous, weak to moderate siliceous cement, very sandy in part, grades to silty sandstone.</p> <p>Sandstone: 0-20%, white to off white, very fine to fine grained, subangular to subround, well sorted, good sphericity, weak siliceous cement, occasionally strong calcareous cement, common white argillaceous matrix, trace mica, friable, trace to poor porosity.</p> <p>Show: 2001-2006m, Siltstone and Sandstone have trace to 50% dull yellow patchy fluorescence, weak to rarely moderate milky crush cut, very thin colourless ring residue.</p> <p>Gas BG: 10 units, C₁ 75%, C₂ 11%, C₃ 6%, C₄ 6%, C₅ Tr.</p> <p>Peak: 1975-1982m 112 units, C₁ 86%, C₂ 11%, C₃ 2%, C₄ 1%, C₅ Tr. 2001m 91 units, C₁ 79%, C₂ 9%, C₃ 11%, C₄ 3%, C₅ Tr. 2004m 101 units, C₁ 85%, C₂ 5%, C₃ 5%, C₄ 2%, C₅ Tr.</p>		
2006 - 2041m	1.5-7.5 mins/m	<p>Massive Claystone with interbedded Coal and occasional minor Sandstone stringers.</p> <p>Claystone: 20-100%, light grey brown to pale brown, occasional micromicaceous and silty laminations, carbonaceous specks in part, trace pyrite in part, trace dolomitic concretions, soft to firm, subfissile.</p> <p>Sandstone type 1 Trace at 2023-2025m, colourless, translucent, very coarse to coarse, subangular, non quartz, good inferred porosity. No show.</p> <p>Sandstone type 2 Trace at 2025 - 2028m, white, fine grained, well sorted, angular to well rounded, good sphericity, weak calcareous cement, white argillaceous matrix, friable to hard, nil to trace porosity. Show: trace to 10% dull patchy yellow fluorescence, weak milky crush cut, trace colourless residue ring.</p> <p>Gas BG: increasing from 10-30 units, C₁ 78%, C₂ 10%, C₃ 5%, C₄ 6%, C₅ 1%</p> <p>2023-2028m 37-43 units C₁ 86%, C₂ 9%, C₃ 4%, C₅ Tr.</p> <p>Coal peak at 2032-2041m 211 units, C₁ 89%, C₂ 7%, C₃ 3%, C₄ 1%, C₅ Tr.</p>



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DEPTH (2400):	2139m	PROGRESS:	98m	DAYS FROM SPUD:	18		
OPERATION at 0600:	Drilling ahead at 2196m						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:			
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1054kg/m ³		
MUD	WT: 1137	VISC: 51	WL: 6.4	pH: 9.0	CL: 4000		
					NO ₃ : In +250 Out +250		
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	6	Smith	F1	-0	-	-
SURVEYS:							
PREVIOUS 24 HOURS OPERATIONS: RIH and set test plug. Test bop's and surface equipment. P/u new bit and RIH washing to TD. Drill ahead. 17/11 Drill ahead to 2196m.							
ANTICIPATED NEXT 24 HRS: Drill to TD. Circulate up bottom sample. Make a wiper trip to the shoe, circulate hole clean, drop multishot suvey and strap out of the hole. Rig up and log.							
FORMATION TOPS: None							



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2041 - 2065m	2 - 15 mins/m	Interbedded Claystone, Sandstone, Coal and Siltstone.
<p>Claystone: 10 - 70%, light brown to light grey brown, silty, local carbonaceous specks, very soft, dispersive.</p> <p>Sandstone: 0 - 90% colourless, white, translucent, fine grained, rarely medium, well sorted, subangular, subspherical, weak siliceous cement, locally strong calcareous cement, trace argillaceous matrix, predominantly loose unconsolidated quartz, friable to very hard in aggregate, predominantly good inferred porosity. Show: 40% dull patchy dull yellow fluorescence, very slow blooming milky white cut, weak crush cut, trace to thin colourless residue ring.</p> <p>Siltstone: 0 - 20% off white, very argillaceous, soft. Show: 30% fluorescence as above, no cut, weak to moderate crush cut, thin to trace colourless residue ring.</p> <p>Coal: 0 - 50% black, dull to subvitreous, hard, brittle.</p> <p>Gas: BG 18 units, C₁ 66%, C₂ 15%, C₃ 11%, C₄ 7%, C₅ 1%.</p> <p>Peak: 2053m 219 units, C₁ 87%, C₂ 7%, C₃ 4%, C₄ 2%, C₅ 3%. 2057m 78 units, C₁ 86%, C₂ 8%, C₃ 3%, C₄ 2%, C₅ 1%.</p>		
2065 - 2113m	3 - 7.5 mins/m	Claystone with interbedded Coal and minor Siltstone and Sandstone stringers.
<p>Claystone: 60 - 100% tan to light brown, grey brown, non calcareous, micromicaceous, carbonaceous specks, trace pyrite, very soft and dispersive, occasionally firm and subfissile.</p> <p>Coal: 0 - 40% black, dull, firm to hard, very argillaceous and subfissile in part.</p> <p>Sandstone: 0 - 10% off white, very fine to fine, well sorted, subrounded, spherical, moderate siliceous cement, moderate interstitial clay, trace to common interstitial mica, carbonaceous specks, friable to hard, trace to poor porosity. No show.</p> <p>Siltstone: 0 - 20% white to off white, very argillaceous, micromicaceous, soft, dispersive. Show: 2085 - 2088m, 50% moderate to dull patchy yellow white fluorescence, weak crush cut, trace ring residue.</p> <p>Gas: BG 18 units, C₁ 76%, C₂ 10%, C₃ 6%, C₄ 5%, C₅ 3%.</p> <p>Peaks: 2078m 119 units, C₁ 80%, C₂ 11%, C₃ 7%, C₄ 2%, C₅ Tr. 2100m 54 units, C₁ 84%, C₂ 9%, C₃ 4%, C₄ 3%, C₅ Tr.</p>		
2113 - 2187m	2 - 10 mins/m	Thickly interbedded Sandstone type 1 and Claystone with occasional thin interbeds of Sandstone type 2 and Coal.
<p>Sandstone: type 1, 0 - 100% colourless to off white, fine to conglomerate sized grains, predominantly fine grained, moderate to well sorted, angular to subangular, poor to moderate sphericity, trace siliceous cement, trace clay coatings on grains, loose unconsolidated quartz, good inferred porosity. No show.</p>		



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<p>Claystone: 0 - 100% as above, becoming commonly brown to dark brown, and more carbonaceous with common coaly laminations.</p> <p>Sandstone: type 2, 0 - 20%, white - off white, light brown, very fine grained, subround, spherical, well sorted, weak to moderate siliceous cement, trace clay matrix, friable to hard, nil to poor porosity. No show.</p> <p>Coal: 0 - 40% black, dull, hard, brittle, argillaceous in part, blocky to platy.</p> <p>Gas: BG 15 units, C₁ 84%, C₂ 9%, C₃ 4%, C₄ 2%, C₅ Tr.</p> <p>Peak: 2167m 88 units, C₁ 89%, C₂ 7%, C₃ 25, C₄ 2%, C₅ Tr. 2182m 161 units, C₁ 92%, C₂ 6%, C₃ 1%, C₄ 1%, C₅ Tr</p>		



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DEPTH (2400):	2223m	PROGRESS:	84m	DAYS FROM SPUD:	19		
OPERATION at 0600:	Running E' logs HRI-LSS-MSFL-GR-SP.						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	\$-		
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1066 KG/M ³		
MUD	WT: 1137	VISC: 53	WL: 6.8	pH: 9.5	CL: 3500	NO ₃ : IN 250 OUT 250	
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	6	Smith	F1	19.5	182	
SURVEYS:							
<p>PREVIOUS 24 HOURS OPERATIONS: Drill to 2223m, circulate bottoms up, make a wiper trip to the shoe. Back reamed 2158 to 2035m and 2015 to 1701m RIH, ream coal at 2182 to 2187m. 9m of fill om bottom. Circ hole clean. Drop multishot and POOH.</p> <p>18/11 Continue POOH. Rig up HLS and commence logging.</p>							
ANTICIPATED NEXT 24 HRS:		Run E'logs. make a wiper trip prior running the SFT.					
FORMATION TOPS:							



SAGASCO Resources Limited

A.C.N. 007 845 338

DAILY GEOLOGICAL REPORT

DATE: 17th November 1992

WELL: KING-1

Page 2

HYDROCARBON SHOW SUMMARY		
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS
2196 - 2223m	1.5 - 10.5 mins/m	<p>Predominantly Claystone with thin interbeds of Sandstone and Coal.</p> <p>Claystone: dark grey to grey brown, occasionally light brown, very carbonaceous and coaly, mica and silty laminations, dolomitic concretions, firm, subfissile.</p> <p>Sandstone: light brown to off white, fine grained subround to subangular, spherical, well sorted, weak to moderate siliceous cement, abundant white argillaceous matrix, friable to hard, nil to trace porosity. No show.</p> <p>Coal: black, dull to subvitreous in part, hard, brittle, subconchoidal fracture, angular, sub-bituminous.</p> <p>Gas: BG 18 units, C₁ 84% C₂ 10%, C₃ 4%, C₄ 5%, C₅ 1%. Peak: 2212m, 75 units, C₁ 87%, C₂ 9%, C₃ 2%, C₄ 2%, C₅ Tr.</p>



SAGASCO Resources Limited

A.C.N. 007 845 338

DAILY GEOLOGICAL REPORT

DATE: 18th November 1992

WELL: KING-1

Page 1

DEPTH (2400):	2223m	PROGRESS:	0	DAYS FROM SPUD:	20		
OPERATION at 0600:	Rigging up to run HFDT.						
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	\$--		
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1066 kg/m ³		
MUD	WT: 1137	VISC: 53	WL: 6.8	pH: 9.5	CL: 3500 NO ₃ : 250		
		No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST	6	Smith	F1	19.5	182	2/3/BT/AL L/E/I/TD
SURVEYS: 2° incl, 21°az at 2216m.							
PREVIOUS 24 HOURS OPERATIONS: POOH to the shoe, recover the multishoot, continue POOH. Rig up HLS and run HRI-LSS-MSFL-GR-SP. Rig up to run SDL-DSNII-CSNG-ML-DTD. Wait while servicing the rig motion compensators, RIH and start logging.							
19/11 Continue logging with SDL-DSNII-CSNG-ML-DTD.							
ANTICIPATED NEXT 24 HRS: Run HFDT and dipmeter and make a wiper trip.							
FORMATION TOPS:							
HYDROCARBON SHOW SUMMARY							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					
CUTTINGS DESCRIPTIONS							
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS					
No new lithology drilled.							



SAGASCO Resources Limited

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DAILY GEOLOGICAL REPORT

DATE: 19th November 1992

WELL: KING-1

Page 1

DEPTH (2400):	2223m	PROGRESS:	0	DAYS FROM SPUD:	21
OPERATION at 0600:	Running SFT				
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	\$--
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1066g/m ³
MUD	WT: 1147	VISC: 60	WL: 6.8	pH: 9.5	CL: 3500
		NO ₃ :	250		
		No	Make	Type	Hours
					Metres
BIT INFORMATION	PRESENT LAST				Condition
SURVEYS:					
PREVIOUS 24 HOURS OPERATIONS: Run SDL-DSNI-CSGR-ML, HFDT-GR, and Six arm dipmeter. Rig down HLS and make a wiper trip to TD. No problem spots. Circulate hole clean and condition mud. POOH.					
20/11 Continue POOH. Rig up HLS and commence running SFTs.					
ANTICIPATED NEXT 24 HRS: Run SFT pretests, take required samples, run VSP, Shoot sidewall cores.					
FORMATION TOPS:					
CUTTINGS DESCRIPTIONS					
INTERVAL	ROP	LITHOLOGY/GAS/SHOWS			
No new lithology drilled					



SAGASCO Resources Limited

A.C.N. 007 845 338

DAILY GEOLOGICAL REPORT

DATE: 20th November 1992

WELL: KING-1

Page 1

DEPTH (2400):	2223m	PROGRESS:	0m	DAYS FROM SPUD:	22	
OPERATION at 0600:	Running VSP					
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	\$--	
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1066 kg/m ³	
MUD	WT: 1147	VISC: 60	WL: 6.8	pH: 9.5	CL: 3500	NO ₃ : 250
	No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST					
SURVEYS:						
<p>PREVIOUS 24 HOURS OPERATIONS: Continue POOH. Rig up HLS, commence running SFTs. First run - 23 Pre-tests. Run 2 for a sample from 1436.25. Run 3 for a sample from 1460m. Run 4 for 4 pre-tests plus a sample from 2053m.</p> <p>21/11 Take sample at 2053m and POOH. Recover sample. Rig up and run VSP.</p>						
<p>ANTICIPATED NEXT 24 HRS: Run VSP.</p>						

Attached: Additional SFT pressure and fluid recoveries.

**SAGASCO Resources Limited**

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DAILY GEOLOGICAL REPORT

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Page 2

FINAL SFT RESULTS

SFT # 1 1436.25m

Segregated Sample Recovery

Chamber 1: Empty
Chamber 2: 9.8L cloudy water
Rw = 0.39ohm @ 75°F = 15,500ppm NaCl eq
Titrated Cl 13,000
NO₃ 50ppm
No oil or gas recovered
Mud properties
Rmf = 0.95 @ 64°F = 6,800 ppm NaCl eq
Titrated Cl 3,500
NO₃ 250 ppm

SFT # 2 1460m

Segregated Sample Recovery

Chamber 1: Empty
Chamber 2: 9.8L cloudy water and 0.5 cuft. gas
No oil
Rw = 0.24 ohm @ 73°F = 26,000 ppm NaCl eq
Titrated Cl 22,000 ppm
NO₃ 25 ppm
Mud properties - as for SFT # 1

SFT # 3 2053m

Conventional single chamber: 18.9L muddy water, trace oily scum giving dull yellow brown fluorescence and approximately 2.5cu ft gas.
Rw = 0.21ohm @ 75°F = 29,500 ppm NaCl eq
Titrated Cl 21,000ppm
NO₃ Nil
Mud properties: as for SFT #1



SAGASCO Resources Limited

A.C.N. 007 845 338

DAILY GEOLOGICAL REPORT

DATE: 21st November 1992

WELL: KING-1

Page 1

DEPTH (2400):	2223m	PROGRESS:	0m	DAYS FROM SPUD:	23	
OPERATION at 0600:	Running in to set the third abandonment plug.					
RIG:	Ocean M Epoch	AFE:	7,525,200	COST TO DATE:	\$--	
LAST CASING DEPTH:	1237m	LOT/FIT:	1701kg/m ³	EST PP:	1066 kg/m ³	
MUD	WT: 1147	VISC: 60	WL: 6.8	pH: 9.5	CL: 3500	NO ₃ : 250
	No	Make	Type	Hours	Metres	Condition
BIT INFORMATION	PRESENT LAST					
SURVEYS:						
<p>PREVIOUS 24 HOURS OPERATIONS: Run the VSP. Rig down HLS. RIH and circulate to condition hole. Set cement plug #1 from 2085m to 2015m, 80 sx of class 'G' cement mixed to 15.8ppg. Pull back to 1914m and circulate bottoms up. Pull to shoe.</p> <p>22/11 RIH and tag top of cement at 2007m. Pull back to 1470m and set cement plug #2 from 1470m to 1400m, using 80sx of class 'G' cement mixed to 15.8ppg. Pull back to 1300m and circulate bottoms up. L/O excess drill pipe.</p>						
ANTICIPATED NEXT 24 HRS: Set plug #3 and prepare to cut 13 3/8" casing.						

2.2 **Drilling**

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

(DDR 1)

Well Name:	KING 1	Total Depth:	x	Report Number:	1
Permit Number:	T/18P	Water Depth:	x	Report Date:	28-Oct-92
Rig Name:	OCEAN EPOCH	RT to SB:	x	Days on Location:	1
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	x	Days Since Spud:	x
Area:	BASS STRAIT	Shoe Depth:	x	Progress Last 24hrs:	x

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity Last 24 Hours
0:00	8:30	8.5	Rig on tow. Continue MPI inspection on priority items.
8:30	11:30	3.0	Dropped first anchor #7 @ 08:34hr.
11:30	13:00	1.5	Ragna Viking (RV) set #3 on Btm @ 12:00hrs. Chain chaser passed to rig @ 13:00hrs.
13:00	17:30	4.5	RV set #6 on Btm @ 16:30hrs. Chain chaser passed to rig @ 17:30hrs.
17:30	19:00	1.5	Recover tow bridle from Terje Viking (TV).
19:00	24:00	5	TV set #5 on Btm @ 20:20hrs. Chain chaser passed to rig @ 21:40hrs.
			RV set #2 on Btm @ 20:27hrs. Chain chaser passed to rig @ 21:00hrs. RV working #8.
			Backload TV & depart rig @ 23:30hrs for Bell Bay ETA 10:00hrs.
			Continue MPI inspections, reassy top drive, prepare Dolly frames for inspection, Wrk on #27 clamps.

TOTAL 24

From	To	Hours	06:00hr Update:	BHA #:	Length (m)	Qty
0:00	6:00	6.0	Run anchors #8,1,4. Pre-tension, #8 slipping.			
			RV shut down @ 03:45hrs.			
			MPI-Dolly frame, slips. R/up TGB & PGB.			

Program next 24 Hours: Continue pre-tension anchors & Ballast dwn, R/up to spud.

Operation	Hours	Cum.	Mud properties							
Rig move			Mud type		Time					
Anchor handling	15.5	15.5	Mud wt. SG /ppg	0.00	Vis (sec/l)					
P/U-L/O BHA			PV / YP		pH					
Drilling			Gels 10s / 10m		Solids %					
Reaming			API WL / HTHP		Oil %					
Circ. & cond.			Cake 32nd		Water %					
Trips			Pf / Mf		Sand					
Survey			Cl / KCl		MBT ppg					
Electric logging			Ca / Nitrate							

Casing	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks
Cementing											
P/U test BOP											

Rig main./repair	Pumps No.	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet size	WOB (KIPS)	RFM	Surveys	
Coring									Depth (m)	Deg.
Weather										
DST										
P & A										

Other:	Annular velocity (m/sec)				SPR (PSI)	Pump No 1	Pump No 2	Personnel on Rig	
	DCOH	DPxOH	DPxCsg	Riser	No Stks			DMG	
Total	15.5	15.5							48

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Heavy Fog	SAGASCO	2
Maximum (KIPS)									Wind spd/gust	5/8kt	Racal	2
Average (KIPS)									Wind direction	ESE	BHP eng	1
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:						Wave HGT/sec	calm	Smith	2
Location/ETA @	Bell Bay/10:00	Rig	Pax on	Pax off					Swell HGT/sec	1.5/6	Subsea	3

Comments:										Personnel on Rig		
											Varco	1
									Visibility (KM)	0.5	Vetco	1
									Heave	x	Marine	8

NOPE No. 203 6003	Daily Cost: A\$71,000
Approved A\$7,525,200	Cumulative Cost: A\$1,304,000

Report prepared by: Lambert / King Approved by: TTE Rig heading 260 Total 68

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

(DDR 1)

Well Name:	KING 1	Total Depth:	Report Number:	2
Permit Number:	T/18P	Water Depth:	Report Date:	29-Oct-92
Rig Name:	OCEANEPOCH	RT to SB:	Days on Location:	2
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	Days Since Spud:	
Area:	BASS STRAIT	Shoe Depth:	Progress Last 24hrs:	

RIG POSITION: Latitude: 39deg. 35min. 24.35sec. South Longitude: 145deg. 31min. 8.85sec. East

From	To	Hours	Description of Operating Activity Last 24 Hours
0:00	3:30	3.5	Run anchor #8 & set on Btm. Run #1 & set. Run #4 & set.
3:30	6:30	3.0	Commence anchor pre-tension, #8 slipping, all others OK.
6:30	12:00	5.5	Pull & bolster #8, wait on Ragna Viking, retrieve tow bridle. Continue work on MPI, BOP & equip. R/up TGB & PGB.
12:00	14:30	2.5	Rerun #8 anchor and set.
14:30	15:30	1.0	Pre-tension all anchors 250 - 275 Kips.
15:30	22:00	6.5	Ballast rig down to drilling draft at 55 ft (16.8m).
22:00	24:00	2.0	Pick up BHA, landing string & cmt. stinger. Prepare for spud. Confirm rig position- Acoustic & Global Position Satellite (GPS). Prelim. position: Lat: 39deg 35min 24.331sec South. Long: 145deg 31min 08.78sec East. Easting: 372835.53 metres Northing: 5616671.27 metres

TOTAL 24.0 3.39m bearing 351.83deg from intended King 1 location.

From	To	Hours	06:00hr Update:	BHA #:	Length (m)	Qty
0:00	6:00	6.0	M/up 36" BHA & rack in derrick. M/up 'J' tool in TGB & run to sea bed. Jump ROV & observe TGB heading 270deg. Unjay tool & retrieve.			

Program next 24 Hours: Drill 36" hole run 30" csg.

Operation	Hours	Cum.	Mud properties			
Rig move			Mud type		Time	
Anchor handling	22	37.5	Mud wt. SG /ppg	0.00	Vis (sec/l)	
P/U-L/O BHA	2	2	PV / YP		pH	
Drilling			Gels 10s / 10m		Solids %	
Reaming			API WL / HTHP		Oil %	
Circ. & cond.			Cake 32nd		Water %	
Trips			Pf / Mf		Sand	
Survey			Cl / KCl		MBT ppg	
Electric logging			Ca / Nitrate			

Casing	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks
Cementing											
N/U test BOP											
Rig main./repair											
Coring			Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WOB	RFM	Surveys
Weather			No	size	(comb)	(PSI)	GPM	Jet size	(KIPS)		Depth (m) Deg.
DST											
P & A											
Other:			Annular velocity (m/sec)		SPR	Pump No 1	Pump No 2				
			DC:OH	DP:OH	DP:Csg	Riser	(PSI)				Personnel on Rig

Total	24	39.5					No Stks				DMG	48
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Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Patchy fog	SAGASCO	2	
Maximum (KIPS)	All pre-tensioned 250 to 275 kips.								Wind spd/gust	15/-	Vetco	1	
Average (KIPS)	155	175	195	180	180	155	185	185	Wind direction	90	Subsea	3	
Workboats	Tarja Viking		Ragna Viking		Helicopter flights to rig:			0	Wave HGT/sec	0.7/3	Racal	2	
Location/ETA @	Bell Bay		Rig		Pax on		Pax off		Swell HGT/sec	2.0/6	BHP eng	1	
Comments: Ragna Viking on rest period 03:30hrs to 12:00hrs. Unloading fuel water & bulk.									Swell direction	80	Smith	2	
									Visibility (KM)	10+	Varco	1	
									Heave	0.3	Marine	8	
									Pitch / Roll	0.4/0.5			
NOPE No. 203 6003	Daily Cost: A\$ 78,000								Temp. deg C.	15			
Approved A\$7,525,200	Cumulative Cost: A\$ 1,382,000								Rig heading	257	Total	68	
Report prepared by: Lambert / King					Approved by: TTE								

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 3

Well Name:	KING 1	Total Depth:	133m	Report Number:	3
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	30-Oct-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	3
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:		Days Since Spud:	1
Area:	BASS STRAIT	Shoe Depth:		Progress Last 24hrs:	38m

RIG POSITION: Latitude: 39deg. 35min. 24.331sec. South Longitude: 145deg. 31min. 8.78sec. East

From	To	Hours	Description of Operating Activity Last 24 Hours										
0:00	3:30	3.5	M/up 26" bit, 36" hole opener & BHA.										
3:30	6:00	2.5	J into TGB & run to sea bed, observe w/ ROV TGB heading 270deg. un-J & pooh w/ R/Tool.										
6:00	6:30	0.5	Move PGB onto moon pool spider beams.										
6:30	7:00	0.5	M/up 30" csg R/tool on pup jt. & 1 std HWDP. Rack back in derrick.										
7:00	11:00	4.0	R/up & run 30" csg, M/up R/tool, land 30" hsg on PGB & lock in. Skid PGB & csg to side of moon pool.										
11:00	11:30	0.5	L/out 8" DC, strap & callper.										
11:30	13:00	1.5	Hold pre-spud safety meeting, all hands onboard attend.										
13:00	15:00	2.0	P/up & run 36" BHA, observe stab in TGB w/ROV.										
15:00	17:00	2.0	Drill 36" hole frm 94.8m to 133m, pump 30 bbl HI-Vis sweep on connections.										
17:00	17:30	0.5	Displace hole w/100 bbls HI-Vis mud.										
17:30	18:00	0.5	POOH to 5m below sea bed, RIH tag fill @ 128m, clean fill to Btm.										
TOTAL		24.0	(Daily summary continued next page DDR2-3)										
From	To	Hours	06:00hr Update:						BHA #:	Length (m)	Qty		
0:00	6:00	6.0	Cement 30" csg, back off R/tool & POOH. L/dwn R/tool, 36" BHA,						26" Bit	0.62	1		
			M/up 17 1/2" BHA, M/up 6x8" DC & rack bk. Drift HWDP,						36" Hole Opener	2.05	1		
			P/up DP.						Bit sub	1.20	1		
Program next 24 Hours:			M/up 17 1/2" BHA, Drill 17 1/2" hole.						9" DC	55.17	6		
Operation	Hours	Cum.	Mud properties						X/O sub	0.79	1		
Rig move			Mud type		Seawater/ HI-Vis sweep		Time	17:00	8" DC	27.69	3		
Anchor handling		37.5	Mud wt. SG /ppg		1.0679	8.90	Vis (sec/l)	58	X/O sub	1.02	1		
P/U-L/O BHA	4.0	6.0	PV / YP				pH		Total BHA:	88.54			
Drilling	2.0	2.0	Gels 10s / 10m				Solids %						
Reaming			API WL / HTHP				Oil %		HWDP	55.36	6		
Circ. & cond.	1.0	1.0	Cake 32nd				Water %						
Trips	4.5	4.5	Pf / Mf				Sand						
Survey			Cl / KCl				MBT ppg						
Electric logging			Ca / Nitrate										
Casing	10.5	10.5	Bit No.	Run No.	Size	Type	Serial No.	Depth	Metres Drilled	Hours	Rate (M/Hr)	Condition	
Cementing	0.5	0.5										Remarks	
N/U test BOP			1	1	26"	DSJ	KS5832	133	38	2	19	1,1,1	
Rig main./repair													
Coring			Pumps No.	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet size	WOB (KIPS)	RFM	Surveys		
Weather											Depth (m)	Deg.	
DST			2	7"x12"	40-	150-	230-	3 x 24		0-	40-	130m	0.50
P & A					100	375	580			10	60		
Other:	1.5	1.5	Annular velocity (m/sec)				SPR	Pump No 1	Pump No 2				
			DGxOH	DPxOH	DPxCsg	Riser	(PSI)					Personnel on Rig	
Total	24.0	63.5					No Stks					DMG	48
Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Pachy fog		SAGASCO	3
Maximum (KIPS)	180	170	200	185	185	165	185	185	Wind spd/gust	20/25		Vetco	1
Average (KIPS)									Wind direction	NW		Subsea	3
Workboats	Terje Viking		Ragna Viking		Helicopter flights to rig:			2	Wave HGT/sec	1.2/4		Telecom	2
Location/ETA @	Bell Bay		Rig		Pax on		Pax off		Swell HGT/sec	2.0/6		Geodata	4
Comments: Ragna Viking off load bulk,fuel & water. Backload rig equip. King 1 Spud @ 15:00hrs.									Swell direction	N		Smith	2
									Visiblilty (KM)			Howcco	2
									Heave	0.3		IDF	1
NOPE No. 203 6003									Pitch / Roll	0.5/0.8		HLS	5
Approved A\$7,525,200									Temp. deg C.	15			
Report prepared by: Lambert / King									Rig heading	257		Total	71
Daily Cost: A\$ 221,449													
Cumulative Cost: A\$ 1,603,449													
Approved by: TTE													

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 3

Well name: King 1

Report no: 3

Date: 30/10/92

From	To	Hours	Continuation of description of Operating Activity Last 24 Hours
18:00	18:30	0.5	Displace hole w/ 300 bbls HI-Vis mud, drop survey.
18:30	20:30	2.0	POOH, no drag, hole in good condition.
20:30	22:00	1.5	Move PGB to hole center, M/up R/tool & R/string, fill csg w/ Seawater, install bull plug.
22:00	23:30	1.5	RIH W/ 30" csg & PGB. Observe W/ ROV, slope indicator 1.25deg towards Port bow.
23:30	24:00	0.5	M/up cmt lines & displace W/ 40 bbls seawater. Prepare to cement.

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	167		mt	
Bentonite (sacks)	1700		mt	
Cement (sacks)	65		mt	
Pot water (tonne)	661 bbl		47	
Drill water (tonne)	2557 bbl		mt	
Fuel (tonne)	346.55		248.4	
Jet A1 (litres)	mt		mt	
Fuel used last 24hrs.	6.04	2	3.6	Daily fuel cost: \$3,026

Mud Description	Size Pkg	Qty used	Unit price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
Barite (for guide base)	100lb	146	14.57	2127.2					0
Bentonite	100lb	260	22.18	5766.8					0
Caustic soda	25kg	2	46.35	92.7					0
Lime	25kg	12	11.15	133.8					0
Calcium chloride	25kg	22	12	264	Cum cost: 8385			Daily cost:	\$8,385

Cement Description	Size Pkg	Qty used	Comments
Cement			
Chemicals:			

Tools & consumables Description	Serial no.	Rental/ day	Purchase price	Comments
26" Bit	KS 5832		14,821	
Bit nozzles series 100			360	2 sets bit & H/O
36" Hole opener cutters			10,458	S/M type cutters
Temporary guide base			18,600	Vetco
Permanent guide base			18,773	"
30" housing Jt			19,169	
30" shoe Jt			12,099	
30" Intermediate Jt			13,392	
Slope indicator			3,446	
Helicopter flights, 2 x 2hrs/flt @ \$1032/hr			4,128	

SAGASCO Resources Ltd.

296047

DAILY DRILLING REPORT

DDR 1- 4

Well Name:	KING 1	Total Depth:	405m	Report Number:	4
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	31-Oct-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	4
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	30"	Days Since Spud:	2
Area:	BASS STRAIT	Shoe Depth:	127m	Progress Last 24hrs:	272m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	31/10/92
0:00	0:30	0.5	Cement 30" csg, 772 sx "G", 15.8ppg, 1.0% CaCl2 W/ seawater. Displace W/ 10 bbl seawater.		
0:30	1:30	1.0	Back out 30" R/tool, POOH & L/dwn same.		
1:30	4:00	2.5	L/dwn 26" bit & 36" H/O, M/up 17 1/2" BHA, P/up 6x8" DC.		
4:00	4:30	0.5	Drift HWDP.		
4:30	6:00	1.5	P/up S135 DP, clean & drift each Jt.		
6:00	7:00	1.0	P/up 20" R/tool, M/up cmt stinger & pup Jt, L/dwn same.		
7:00	10:00	3.0	RIH W/ 17 1/2" BHA, observe W/ ROV. Unable to stab in 30", POOH, attach guide ropes, RIH & stab in, RIH & tag cmt @ 124m.		
10:00	10:30	0.5	Attempt to hook chains on TGB to PGB W/ ROV, unsuccessful.		
10:30	13:00	2.5	Drill out cmt & drill ahead to 169m, observe returns W/ SSTV.		
13:00	15:00	2.0	Repair motion compensator lock/unlock system.		
TOTAL		24.0	(continued on next page, DDR 2-4)		

06:00hr Update: Date: 1 November, 92 BHA #: 2 Length (m) Qty

From	To	Hours	Description	BHA #	Length (m)	Qty
0:00	6:00	6.0	Circulate hole clean, POOH to 30" shoe, hole in good condition, no drag. WOW until W/boat can offload, R/up to run csg.	17 1/2" bit	0.43	1
			M/up flt shoe & collar to csg.	Bit sub	1.20	1
				9" DC	18.74	2
			Program next 24 Hours: Run & cmt 13 3/8" csg. Run BOP stack.	17 1/2" stab	2.27	1
				9" DC	36.43	4

Operation	Hours	Cum.	Mud properties	Time	23:30	X/O sub	0.79	1
Rig move			Mud type	Seawater/ HI-Vis sweep	Time	23:30	X/O sub	0.79
Anchor handling		37.5	Mud wt. SG /ppg	1.06	8.83	Vis (sec/l)	80	8" DC
P/U-L/O BHA	4.5	10.5	PV / YP			pH		X/O sub
Drilling	11.5	13.5	Gels 10s / 10m			Solids %		Total BHA
Reaming			API WL / HTHP			Oil %		116.30
Circ. & cond.		1.0	Cake 32nd			Water %		HWDP
Trips	3.0	7.5	Pf / Mf			Sand		
Survey			Cl / KCl			MBT ppg		
Electric logging			Ca / Nitrate					

Operation	Hours	Cum.	Bit No	Run No	Size	Type	Serial No	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Casing	2.0	12.5										
Cementing	0.5	1.0				SMITH						
N/U test BOP			2	2	17 1/2"	DSJ	KS7976	405	272	13	20.9	INC.

Other:	Hours	Cum.	Pumps No	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet size	WOB (KIPS)	RFM	Surveys
											Depth (m) Deg.
DST			2	7x12	73-	1400-	425-	3 x 18	0-10	80	
P & A					120	1850	698				

Other:	Hours	Cum.	Annular velocity (m/sec)				SPR	Pump No 1	Pump No 2
	0.5	2.0	DCOH	DPxOH	DPxCsg	Riser	(PSI)		
Total	24.0	87.5	76	61			No Stks		

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather
Maximum (KIPS)									Wind spd/gust 20/25
Average (KIPS)	175	170	205	195	195	165	170	175	Wind direction SW
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	0					Wave HGT/sec 1.2/4
Location/ETA @ RIG		Bell Bay/07:00	Pax on		Pax off				Swell HGT/sec 2.5/6
									Swell direction SW
									Visibility (KM) 10
									Heave 0.3
									Pitch / Roll .6/1.0
									Temp. deg C. 14
									Rig heading 257

Comments: Ragna Viking W/ backload depart rig @ 17:00hrs
 Terje Viking arrive rig @ 09:40 hrs, snatch lift containers off, seas too rough to offload csg & bulk.

NOPE No. 203 6003	Daily Cost: A\$126,877
Approved A\$7,525,200	Cumulative Cost: A\$1,730,326

Report prepared by: Lambert / King Approved by: TTE

Total 71

SAGASCO Resources Ltd.

296051

DAILY DRILLING REPORT

DDR 1 - 6

Well Name: KING 1	Total Depth: 405m	Report Number: 6
Permit Number: T/18P	Water Depth: 72.5m	Report Date: 2-Nov-92
Rig Name: OCEAN EPOCH	RT to SB: 94.8m	Days on Location: 6
Contractor: DIAMOND M GENERAL CO.	Last Csg. Size: 13 3/8"	Days Since Spud: 4
Area: BASS STRAIT	Shoe Depth: 394.4m	Progress Last 24hrs: Nil

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date: 2-Nov-92
0:00	2:00	2.0	WOW, slip & cut 31m drill line.	
2:00	2:30	0.5	RIH wash frm 345m to 405m, Hole condition good.	
2:30	4:00	1.5	Pumped 50 bbl HI-Vis sweep. Displace hole W/ 800 bbl HI-Vis mud.	
4:00	5:00	1.0	Drop survey, POOH to shoe. L/dwn DP & retrieve survey.	
5:00	7:00	2.0	WO work boat to come alongside. WOW.	
7:00	10:30	3.5	Offload 13 3/8" csg, strap & clean.	
10:30	18:30	8.0	R/up & run 13 3/8" csg, observe W/ ROV, land 18 3/4" Hsg & P/up 30K overpull. 13 3/8" shoe @ 394.4m, Float collar @ 369.7m, Top of 18 3/4" housing @ 92.35m (0.9m above PGB @ 93.25m).	
18:30	19:00	0.5	Hook up cmt lines. Circulate csg vol W/ seawater, observe returns W/ ROV.	
19:00	21:00	2.0	Test cmt lines to 3000 PSI, mix & pump Lead Slurry: 762sx "G", 13.2ppg, 2.2% BWOC bentonite.	
			Tail Slurry 500sx "G", 15.8ppg, W/ seawater. Drop dart & shear plug W/ 2000 PSI, pump 10 bbl sw.	

TOTAL 24.0 (Continued on next page DDR 2 - 6)

From	To	Hours	06:00hr Update:	Date: 3 November,92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	R/up & run BOP stack.		17 1/2" bit	0.43	1
					Bit sub	1.20	1
					9" DC	18.74	2
Program next 24 Hours:			Run & test BOP stack.		17 1/2" stab	2.27	1

Operation	Hours	Cum.	Mud properties				9" DC	36.43	4
Rig move			Mud type	Seawater/ HI-Vis sweep		Time	X/O sub	0.79	1
Anchor handling		37.5	Mud wt. SG /ppg	1.07	8.91	Vis (sec/l)	8" DC	55.42	6
P/U-L/O BHA		10.5	PV / YP			pH	X/O sub	1.02	1
Drilling		13.5	Gels 10s / 10m			Solids %	Total BHA 116.30		
Reaming			API WL / HTHP			Oil %			
Circ. & cond.	1.5	3.0	Cake 32nd			Water %	HWDP		
Trips	1.5	9.5	Pf / Mf			Sand			
Survey			Cl / KCl			MBT ppg			
Electric logging			Ca / Nitrate						

Casing	13.0	25.5	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks	
Cementing	2.5	3.5				SMITH								
N/U test BOP	1.5	1.5	2		17 1/2"	DSJ	KS7976		272	13	20.9	INC		
Rig main./repair		2.5												
Coring			Pumps	Liner size	SFM (comb)	Press. (PSI)	Output GFM	Bit Nozzle Jet size	WOB (KIPS)	RFM		Surveys		
Weather	4.0	26.5	No									Depth (m)	Deg.	
DST			2	7x12				3 x 18				405m	0.5	
P & A														
Other:		2.0	Annular velocity (m/sec)				SFR	Pump No 1	Pump No 2					
			DC:OH	DP:OH	DP:Csg	Riser	(PSI)					Personnel on Rig		
Total	24.0	135.5					No Stks					DMG	49	

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Scat showers	SAGASCO	3
Maximum (KIPS)									Wind spd/gust	5	Vetco	1
Average (KIPS)	185	195	205	185	180	160	175	185	Wind direction	SW	Telecom	2
Workboats	Tarja Viking		Ragna Viking		Helicopter flights to rig:			1	Wave HGT/sec	0.3/2	Geodata	4
Location/ETA @ Rig	Bell Bay		Pax on		Pax off				Swell HGT/sec	1.0/6	HLS	4
Comments: Inspection of riser continues Dolly motor repaired for DP inspection.									Swell direction	W	Subsea	3
									Visibility (KM)	10+	Smith	2
									Heave	0.3	Howco	1
									Pitch / Roll	.2/.2	IDF	1
NOPE No. 203 6003	Daily Cost: A\$215,251							Temp. deg C.	14			
Approved A\$7,525,200	Cumulative Cost: A\$2,123,614							Rlg heading	257	Total	70	
Report prepared by: Lambert / King					Approved by: TTE							

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 7

Well Name:	KING 1	Total Depth:	405m	Report Number:	7
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	3-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	7
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	13 3/8"	Days Since Spud:	5
Area:	BASS STRAIT	Shoe Depth:	394.4	Progress Last 24hrs:	Nll

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	3-Nov-92
0:00	22:30	22.5	Run BOP, function test on beams. Pressure test riser, choke & kill lines to 7500 PSI. Hook up C&K lines, tensioners & pod lines. N/up slip Jt, land & latch BOP stack (observe W/ ROV), P/up 75K overpull confirm latch. N/up diverter, M/up test plug & RIH. Pressure test Rams, fall safes & choke manifold to 250 PSI x 5 min & 5000 PSI x 10 min. Pressure test annular to 250 PSI x 5 min & 1500 PSI x 10 min. POOH, L/dwn test plug. M/up & RIH 18 3/4" Nom wear bushing. POOH W/ R/tool.		
22:30	23:00	0.5	L/dwn excess DP.		
23:00	24:00	1.0	L/dwn 17 1/2" BHA.		
TOTAL		24.0			

From	To	Hours	06:00hr Update:	Date:	4 November, 92	BHA #:	Length (m)	Qty
0:00	0:600	6.0	L/dwn 17 1/2" BHA, Pressure test manifold. P/up DP.					

Program next 24 Hours: M/up 12 1/4" BHA, Drill out shoe, DA 12 1/4" hole.

Operation	Hours	Cum.	Mud properties				
Rig move			Mud type	Seawater/Gel/Polymer	Time	20:00	
Anchor handling		37.5	Mud wt. SG /ppg	1.04	8.66	Vis (sec/l)	33
P/U-L/O BHA	1.5	12.0	PV / YP	4	7	pH	8.6
Drilling		13.5	Gels 10s / 10m	5	7	Solids %	
Reaming			API WL / HTHP			Oil %	
Circ. & cond.		3.0	Cake 32nd			Water %	
Trips		9.5	Pf / Mf	0.05	0.2	Sand	
Survey			Cl / KCl	17500		MBT ppg	12.5
Electric logging			Ca / Nitrate	1500			

Jasing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks
Cementing	3.5	24.0				SMITH							
N/U test BOP	22.5	24.0											
Rig main./repair	2.5												
Coring			Pumps No.	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet size	WOB (KIPS)	RFM	Surveys		
Weather	26.5										Depth (m)	Deg.	
DST													
P & A													
Other:	2.0		Annular velocity (m/sec)				SFR	Pump No 1	Pump No 2				
			DC/OH	DP/OH	DP/Csg	Riser	(PSI)						Personnel on Rig
Total	24.0	159.5					No Stks						DMG 49

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Wind spd/gust	5	SAGASCO	3
Maximum (KIPS)									Wind direction	WSW		Vetco	1
Average (KIPS)	180	170	200	185	180	160	160	165	Wave HGT/sec	.3/2		Telecom	2
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:		0				Swell HGT/sec	1.2/5		Geodata	4
Location/ETA @ Rig		Rig/07:00	Pax on	Pax off					Swell direction	SW		HLS	4
Comments: Terje Viking is backloaded & will depart for Bell Bay on arrival of Ragna Viking @ ETA 07:00 hrs 4/11/92.										Visibility (KM)	10+	Subsea	3
										Heave	0.3	Smith	2
										Pitch / Roll	.6/6	Howco	1
										Temp. deg C.	14	IDF	1
										Rlg heading	257	Total	70

NOPE No. 203 6003

Daily Cost: A\$121,447

Approved A\$7,525,200

Cumulative Cost: A\$2,266,066

Report prepared by: Lambert / King

Approved by: TTE

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 7

Well name: King 1

Report no: 7

Date: 3/11/92

From	To	Hours	Continuation of description of Operating Activity - 00:00 to 24:00Hrs	Date:

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	1187	mt		Fuel correction for Terje Viking - \$8008
Bentonite (sacks)	1083	mt		
Cement (sacks)	350	mt		
Pot water (tonne)	80	5		
Drill water (tonne)	516	mt		
Fuel (tonne)	254	292.6		
Jet A1 (litres)	mt	mt		
Fuel used last 24hrs.	9	6.4		Daily fuel cost: \$12,012

Mud Description	Size Pkg	Qty used	Unit price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0					0
				0	Cum cost:			Daily cost:	0.00

Cement Description	Size Pkg	Qty used	Unit price	Cost	Comments
Cement				0	
Chemicals:				0	
				0	
				0	
				0	
				0	Daily cost: 0.00

Tools & consumables Description	Serial no.	Rental/ day	Purchase price	Comments
AX ring gasket			1248	used on BOP x 18 3/4" Hsg.
Specialty services			750	
			Daily cost:	1998.00

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 8

Well Name:	KING 1	Total Depth:	448m	Report Number:	8
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	4-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	8
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	13 3/8"	Days Since Spud:	6
Area:	BASS STRAIT	Shoe Depth:	394.4m	Progress Last 24hrs:	43m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:
0:00	1:00	1.0	L/dwn 9" BHA. Test choke manifold.	4-Nov-92
1:00	3:30	2.5	Test surface equip top drive, inside BOP, TIW valve & greys to 250 PSI & @ 5000PSI.	
3:30	9:00	5.5	P/up S-135 DP.	
9:00	13:00	4.0	M/up 12 1/4" BHA & RIH.	
13:00	15:00	2.0	Brk circ, function test diverter, tag cmt @ 359m, drill out cmt & Flt collar @ 369m, drill cmt to 373m	
15:00	15:30	0.5	Pressure test csg to 1500 PSI.	
15:30	19:30	4.0	Drill out cmt & Flt shoe to 405m.	
19:30	20:30	1.0	Pump 50 bbl HI-VIs sweep & circ hole to mud.	
20:30	21:00	0.5	Drill 12 1/4" hole to 407m.	
21:00	22:30	1.5	Perform leak off test (FIT) @ 13 3/8" shoe to 14.38 ppg EMW.	
22:30	24:00	1.5	Drill 12 1/4" hole frm 407m to 448m, 30 bbl HI-VIs mud pumped on connections. Hole good, no drag.	

TOTAL 24.0

From	To	Hours	06:00hr Update:	Date: 5 November, 92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	Drill ahead 12 1/4" hole to 566m. Run survey.		3	0.33	1
					12 1/4" bit	1.22	1
					Bit sub	9.23	1
					8" NMDC	9.18	1

Program next 24 Hours: DA 12 1/4" hole.

Operation	Hours	Cum.	Mud properties				12 1/4" stab	1.76	1	
Rig move			Mud type	Seawater/Gel/Polymer	Time	23:30	8" DC	101.55	11	
Anchor handling		37.5	Mud wt. SG /ppg	1.05	8.75	Vis (sec/l)	32	8" Jars	9.79	1
P/U-L/O BHA	10.5	22.5	PV / YP	5	9	pH	8.5	8" DC	27.97	3
Drilling	8.0	21.5	Gels 10s / 10m	8	12	Solids %	1.5	X/O sub	1.02	1
Reaming			API WL / HTHP	40		Oil %		HMWP	138.59	15
Circ. & cond.	1.0	4.0	Cake 32nd	3		Water %	98.5	Total	300.64	
Trips		9.5	Pf / Mf	0.01	0.02	Sand %	0.75			
Survey			Cl / KCl	16000		MBT ppg	12.5			
Electric logging			Ca / Nitrate	400						

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks	
Cementing	3.5	26.5	3		12 1/4"	FDS	NB7624		43	8	30-40	drlg cmt.		
N/U test BOP	2.5	26.5												
Rig main./repair	2.5													
Coring			Pumps No.	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet size	WCB (KIPS)	RFM		Surveys	Depth (m) Deg.	
Weather	26.5		2	6.5"	80-	2150	632	3 x 14	5-					
DST					126				15					
P & A														
Other:	2.0	4.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2					
			DCOH	DPxOH	DPxCag	Riser	(PSI)					Personnel on Rig		
Total	24.0	183.5	68.8	37.8	36.9	12.6	No Stks					DMG	49	

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	SAGASCO	4		
Maximum (KIPS)									Wind spd/gust	20	Vetco	1	
Average (KIPS)	175	175	190	175	175	150	155	165	Wind direction	SW	W/ford	2	
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	1					Wave HGT/sec	2.0/3	Geodata	4	
Location/ETA @ Rig			Pax on	7	Pax off	6			Swell HGT/sec	2.5/6	HLS	4	
Comments:									Swell direction	SW	Subsea	3	
									Visibility (KM)	10+	Smith	2	
									Heave	1	Howco	1	
NOPE No. 203 6003									Pitch / Roll	.5/4	IDF	1	
Approved A\$7,525,200									Temp. deg C.	11			
Report prepared by: Lambert / King									Rig heading	257	Total	71	

Daily Cost: A\$274,359

Cumulative Cost: A\$2,540,425

Report prepared by: Lambert / King

Approved by: TTE

SAGASCO Resources Ltd.

296057

DAILY DRILLING REPORT

DDR 1 - 9

Well Name:	KING 1	Total Depth:	1013m	Report Number:	9
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	5-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	9
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	13 3/8"	Days Since Spud:	7
Area:	BASS STRAIT	Shoe Depth:	394.4m	Progress Last 24hrs:	565m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	5-Nov-92
0:00	4:00	4.0	Drl from 448m to 548m		
4:00	4:30	0.5	Take single shot survey @ 544m -misrun		
4:30	5:30	1.0	DA to 560m		
5:30	6:00	0.5	Take single shot survey @ 549m-misrun		
6:00	6:30	0.5	Drl to 584m		
6:30	7:00	0.5	Take ss survey @569m-misrun		
7:00	11:00	4.0	DA to 698m		
11:00	11:30	0.5	SS survey @685m-misrun		
11:30	12:30	1.0	DA to 727m		
12:30	13:00	0.5	Survey @725m		
13:00	18:30	5.5	DA to 869m		
TOTAL		24.0	(continue next page)		

From	To	Hours	06:00hr Update:	Date:	6 November,92	BHA #:	3	Length (m)	Qty
0:00	6:00	6.0	Drl to 1017m. Increase in pump press, packed off, lost rtns.			12.25" Bit		0.33	1
			Pull back to 758m. Brk circ. Obtain rtns. Hole good.			Bit sub		1.22	1
			Wash to btm. Drill & survey to 1059m.			8" NMDC		9.23	1
Program next 24 Hours:			DA to 12 1/4" TD. Cond hole & run electric logs.			8" DC		9.18	1

Operation	Hours	Cum.	Mud properties				23:00	8"DC	101.55	11
Rig move			Mud type	SW/Gel/Polymer	Time	23:00	8"DC	101.55	11	
Anchor handling		37.5	Mud wt. SG /ppg	1.07	8.91	Vis (sec/l)	40	8" Jar	9.79	1
U-L/O BHA		22.5	PV / YP	10-Jan	14	pH	8.4	8" DC	27.97	3
Drilling	20.5	42.0	Gels 10s / 10m	10	25	Solids %	4	XO	1.02	1
Reaming			API WL / HTHP	22		Oil %		5"HWDP	138.59	15
Circ. & cond.		4.0	Cake 32nd	2		Water %	96			
Trips		9.5	Pf / Mf	0.02	0.1	Sand	0.25			
Survey	3.5	3.5	Cl / KCl	20000		MBT ppg	25	Total BHA	300.64	
Electric logging			Ca / Nitrate	400						

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks			
Cementing	3.5														
Test BOP	26.6		3	1	12.25	FDS	NB7624	inc							
Rig main./repair	2.5														
Coring															
Weather	26.5														
DST			2		6.5*12		126	2570	632	3 x 14	030/10	85/110	725	0.5	
P & A														867	0.5
Other:	4.0														
Total	24.0	207.6	68.8	37.7	36.9	12.6	No Stks	63	63	63	63	Personnel on Rig	DMG	49	

Anchor Tension	No 1	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Drizzle/cold	SAGASCO	4
Maximum (KIPS)								Wind spd/gust	25		
Average (KIPS)	175	175	195	180	180	155	160	Wind direction	SW	Vetco	1
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:				0	Wave HGT/sec	1.0/3	W/ford	2
Location/ETA @	Rig	Rig	Pax on	0	Pax off	0	Swell HGT/sec	2.0/5	Geodata	4	
Comments:								Swell direction	SW	HLS	4
								Visibility (KM)	10	Subsea	3
								Heave	1	SII	2
								Pitch / Roll	0.3/0.6	Howco	1
								Temp. deg C.	12	IDF	1
								Rig heading	257	Total	71

NOPE No. 203 6003 Daily Cost: A\$138,304
 Approved A\$7,525,200 Cumulative Cost: A\$2,678,729

Report prepared by: Lambert / King

Approved by: TTE

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 10

Well Name:	KING 1	Total Depth:	1246m	Report Number:	10
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	6-Nov-92
Rig Name:	OCEAN EPOCH	RT to SG:	94.8m	Days on Location:	10
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	13 3/8"	Days Since Spud:	8
Area:	BASS STRAIT	Shoe Depth:	394.4m	Progress Last 24hrs:	233m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	6-Nov-92
0:00	0:30	0.5	Drill frm 1013m to 1017m, SPP increase of 400 PSI, hole packed off, pumped 80 bbl to formation.		
0:30	3:00	2.5	Pull to 758m, 30K O/pull, Brk circ, wash & ream to 1015m.		
3:00	3:30	0.5	Circulate Btms up wash to 1017m.		
3:30	4:30	1.0	Drill to 1041m.		
4:30	5:00	0.5	Drop & retrieve survey frm 1029m.		
5:00	10:00	5.0	Drill to 1155m.		
10:00	11:00	1.0	Drop & retrieve survey frm 1142m. SPR on Pumps 1 & 2.		
11:00	16:30	5.5	Drill to 1246m. TD 12 1/4" hole.		
16:30	17:30	1.0	Circ hole clean.		
17:30	19:00	1.5	Wiper trip to shoe, max O/pull 30K @ 1130m, 1101m, 1092m.		
19:00	21:00	2.0	RIH 3m fill, max drag 30K @ 920m.		

TOTAL 24.0

From	To	Hours	06:00hr Update:	Date:	BHA #	3	Length (m)	Qty
0:00	6:00	6.0	Cont POOH, retrieve Multi-shot, M/up cmt head on single,		12 1/4" bit		0.33	1
			M/up hanger & stand in derrick. R/up for logging;		Bit sub		1.22	1
			GR-DLL-MSFL-SONIC.		8" NMDC		9.23	1

Program next 24 Hours: Log, wiper trip, run 9 5/8" csg.

Operation	Hours	Cum.	Mud properties				12 1/4" stab	1.76	1
Rig move			Mud type	Seawater/Gel/Polymer	Time	16:30	8" DC	101.55	11
Anchor handling		37.5	Mud wt. SG /ppg	1.12	9.33	Vis (sec/l)	46	8" Jars	9.79
P/U-L/O BHA		22.5	PV / YP	13	22	pH	8.8	8" DC	27.97
Drilling	12.0	54.0	Gels 10s / 10m	20	22	Solids %	7.5	X/O sub	1.02
Reaming	2.5	2.5	API WL / HTHP	15.5		Oil %		HWDP	138.59
Circ. & cond.	3.0	7.0	Cake 32nd	2		Water %	92.5	Total	300.64
Trips	5.0	14.5	Pf / Mf	0.05	0.07	Sand	Tr		
Survey	1.5	5.0	Cl / KCl	19000		MBT ppg	27.5		
Electric logging			Ca / Nitrate	400					

Casing	25.5	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks	
Cementing	3.5				SMITH							
N/U test BOP	26.5	3		12.25	FDS	NB7624	1246	841	34.5	24.37	3,4,BT,G,	
Rig main./repair	2.5										E,I,O,TD	
Coring											Surveys	
Weather	26.5	No	Liner size	SFM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet size	WOB (KIPS)	FFM		Depth (m) Deg.	
DST		2	6.5	126	2757	632	3 x 14	40-	90		1029 0	
P & A								20				
Other:	4.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2				
		DC/OH	DP/OH	DP/Csg	Riser	(PSI)	240	380	260	360	Personnel on Rig	
Total	24.0	231.5	68.8	38	37	12.6	No Stks	30	40	30	40	DMG 47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Partly Cloudy	SAGASCO	5
Maximum (KIPS)									Wind spd/gust	8	Subsea	3
Average (KIPS)	180	175	195	180	185	155	160	165	Wind direction	WSW	Howco	1
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:		2	Wave HGT/sec	1m/10	Smith	2			
Location/ETA @	Bell Bay	Rig	Pax on	13	Pax off	11	Swell HGT/sec	1m/10	IDF	1		
Comments:									Swell direction	WSW	Geodata	6
									Visibility (KM)	8	HLS	4
									Heave	1	W/ford	2
									Pitch / Roll	.4/.4	Austoll	1
									Temp. deg C.	12	Vetco	1
									Rig heading	257	Total	73

NOPE No. 203 6003 Daily Cost: A\$150,247
 Approved A\$7,525,200 Cumulative Cost: A\$2,828,976

Report prepared by: Lambert / Irvine

Approved by:

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 11

Well Name:	KING 1	Total Depth:	1246M	Report Number:	11
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	7-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	11
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	13-3/8"	Days Since Spud:	9
Area:	BASS STRAIT	Shoe Depth:	394.4m	Progress Last 24hrs:	log hole

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	7/11/92.
0:00	2:30	2.50	POOH TO SHOE, RECOVERED MULTI SHOT, FLOW CHECK CONT. OUT .STRAP PIPE.		
2:30	4:00	1.5	MUP CMT HEAD ,MUP 9 5/8 CSG HNGR MUP R/TOOL ASSY. MUP SS CMT PLUGS, STAND IN MAST.		
4:00	4:30	0.5	RIGGED UP HLS.		
4:30	6:00	1.5	RUN LOG TOOL FAILED		
6:00	7:00	1.0	REPAIR LOGGING TOOL.		
7:00	11:00	4.0	RIH LOGGING TOOLS. MSFL-DLL-FWAT-NGRT.		
11:00	12:30	1.5	LAI D DOWN HLS TOOLS.		
12:30	13:00	0.5	R/D.HLS.		
13:00	14:30	1.5	M/U 12.25 R/R BIT & RIH TO SHOE.		
14:30	15:00	0.5	SERVICE T/D		
15:00	16:00	1.0	CONT. R.I.H.TAG BOTTOM AT 1243 m.3m.FILL. WASH TO BOTTOM		
TOTAL		24.0			

From	To	Hours	06:00hr Update	Date:	8th Nov	BHA #:	3	Length (m)	Qty
24:00	6:00	6.0	CONT.TO RUN CSG.TOTAL 95,Its.LAND SAME ON 5.hwdp,			12.25 BIT		0.33	1
			SHOE @ 1237m BREAK CIRC. CIRC 400.bbls.			BIT SUB		1.22	1
			CMT. AS PER PROGRAMME.			8"NMDC		9.23	1
Program next 24 Hours:			RUN & TEST SEAL ASSY, TEST BOP & CSG.			8" DC		9.18	1

Operation	Hours	Cum.	Mud properties				12.25 STAB.	1.76	1	
Rig move			Mud type	S.W/GEL/POLY		Time	17:00	8" DCS	101.55	11
Anchor handling		37.5	Mud wt. SG /ppg	1.12		Vis (sec/l)	42	8" JARS	9.79	1
P/U-L/O BHA			PV / YP	14	18	pH	8.4	8" DCS	27.97	3
Drilling		54.0	Gels 10s / 10m	15	23	Solids %	8	XOSUB	1.02	1
Reaming		2.5	API WL / HTHP	16.8		Oil %	0	15HWDP	138.59	15
Circ. & cond.	1.5	8.5	Cake 32nd	2		Water %	92			
Trips	7.5	22.0	Pf / Mf	0.01	0.05	Sand	TR	TOTAL BHA.	300.59	
Survey	5.0	5.0	Cl / KCl	20000		MBT ppg	27.5			
Electric logging	9.0	9.0	Ca / Nitrate	1840						

Operation	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Casing	5.5	5.5										
Cementing												
N/U test BOP			3 r/r	2	12.25	FDS	NB7624	1246	circ.			
Rig main./repair												

Weather	Pumps No.	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Jet Size	Nozzle	WOB (KIPS)	RPM	Surveys	
										Depth (m)	Deg.
DST	1	6.5X12	85	2150	850	open				1029	0
P & A	2	6.5X12	85								
Other:	0.5	0.5	Annular velocity (m/sec)			SPR	Pump No 1	Pump No 2			
			DOOH	DPxOH	DPxCag	Riser	(PSI)				
Total	24.0	255.6	80	54			No Stks				

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	COOL&RAIN	SAGASCO	5	
Maximum (KIPS)									Wind spd/gust	16	VETCO	1	
Average (KIPS)	180	175	200	180	185	160	160	170	Wind direction	ENE	WEATHERFO	2	
Workboats	TERJE VIKING	Ragna Viking	Helicopter flights to rig:	NILL					Wave HGT/sec	1.0/11	GEODATA	6	
Location/ETA @ RIG	BELL BAY	Pax on		Pax off					Swell HGT/sec	1.0/6	HALL.HLS	4	
Comments: REPORT TERJE VIKING ARRIVED LOCATION 12:05 7/11 RAGNA VIKING DEPART RIG FOR BELL BAY AT 20:1 7/NOV.										Swell direction	ENE	SUBSEA	3
										Visibility (KM)	7	SMITH	2
										Heave	0.3	HALL. CMT	1
										Pitch / Roll	.4/.3	IDF	1
										Temp. deg C.	13	AUST,OIL	1
Report prepared by: J.LAMBERT & S. IRVINE										Rig heading	2.57	Total	73
Approved A\$7,525,200										Daily Cost: A\$151,409			
NOPE No. 203 6003										Cumulative Cost: A\$2,980,385			
Approved by: TTE													

SAGASCO Resources Ltd.

296063

DAILY DRILLING REPORT

DDR 1 - 12

Well Name: KING 1	Total Depth: 1246M	Report Number: 12
Permit Number: T/18P	Water Depth: 72.5m	Report Date: 8-Nov-92
Rig Name: OCEAN EPOCH	RT to SB: 94.8m	Days on Location: 12
Contractor: DIAMOND M GENERAL CO.	Last Csg. Size: 9 5/8"	Days Since Spud: 10
Area: BASS STRAIT	Shoe Depth: 1237m.	Progress Last 24hrs:

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:
0:00	3:00	3.0	RUN 9 5/8" CSG. FILL EVERY 5 JOINTS.	8/11/92
3:00	4:00	1.0	P/UP CSG. HANGER . RI W/ LANDING STRING. LAND CSG. 9 5/8" shoe @ 1237m, fit collar @ 1212.6m.	
4:00	5:00	1.0	CIRC. CSG. PUMP 40 BBLs SW. TEST CMT. LINES TO 3000 PSI.	
5:00	6:30	1.5	RELEASED BTM PLUG. CMTED. W/ LEAD: 646 SX "G" W/ 2.2% BWOC Bentonite, 13.2 ppg, TAIL: 282 SX "G" neat, 15.8 ppg.	
6:30	7:00	0.5	RELEASED TOP PLUG. DISPLACED W/ 272 BBLs MUD. BUMPED PLUG W/ 2000 PSI HELD FOR 5 MIN. RELEASED PRESSURE, NO BACK FLOW	
7:00	8:30	1.5	SET PACK OFF. PRESS. TEST TO 5000 PSI WITH MIDDLE PIPE RAMS .	
8:30	9:00	0.5	POOH RT. ASSY. TEST CSG. AGANST SHEAR RAMS TO 3500 PSI.	
9:00	9:30	0.5	SERVICE, BRK OUT CMT. HEAD, LAID OUT. FLUSH RISER & C-K LINES.	
9:30	15:00	5.5	RIG UP & TEST BOPS; Rams, ck & kill lines 250PSI & 5000PSI. Annular to 3000PSI.	
TOTAL		24.0	(Continue on next page)	

From	To	Hours	06:00hr Update	BHA #	Length (m)	Qty
24:00	06:00	6.0	CONTINUE TO MU 8.5 BHA PICK UP 5" DP.	8.5 FDGH		
				FLOAT SUB		
				6.5NMDC		
				8.5 STAB		

Program next 24 Hours: RIH, drill out shoe, FIT, DA 8.5" hole.

Operation	Hours	Cum.	Mud properties				Time	
Rig move		37.5	Mud type		Freshwater/IDBOND	23:30	6.5 JARS	
Anchor handling			Mud wt. SG /ppg		1.12 9.33	96	3X6.5DC	
P/U-L/O BHA	4.5	58.5	PV / YP		25 55	10.2	15HWDP	
Drilling		2.5	Gels 10s / 10m		12 20	3		
Reaming		8.5	API WL / HTHP		10.2			
Circ. & cond.	1.0	23.0	Cake 32nd			97		
Trips		5.0	Pf / Mf		0.3 0.7		TOTAL BHA.	
Survey		9.0	Cl / KCl		2500	2.5		
Electric logging		5.5	Ca / Nitrate		0			

Casing	Hours	Bit No	Run No	Size	Type	Serial No	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition
Cementing	2.0	5.5			SMITH						Remarks
N/U test BOP	12.0	38.5	4	8.5	FDGH	NC2927					

Rig main./repair	Hours	Cum.	Annular velocity (m/sec)				SPR	Pump No 1	Pump No 2	Surveys	
Coring			DC:CH	DP:CH	DP:Ceg	Riser	(Psi)			Depth (m)	Deg.
Weather											
DST											
P & A											
Other:	0.5										
Total	24.0	279.6					No Stks				

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	COOL&RAIN	Personnel on Rig
Maximum (KIPS)									Wind spd/gust	15	DMG 47
Average (KIPS)	180	175	200	190	185	170	175	195	Wind direction	SW	SAGASCO 5
Workboats	TERJE VIKING		Ragna Viking		Helicopter flights to rig		1	Wave HGT/sec	.3/4		VETCO
Location/ETA @ RIG	BELL BAY		Pax on 0		Pax off 4			Wave HGT/sec	1.5/6		W/FORD

Comments:										Personnel on Rig
NOPE No. 203 6003 Daily Cost: A\$268,646										DMG 47
Approved A\$7,525,200 Cumulative Cost: A\$3,255,131										SAGASCO 5
Report prepared by: J.LAMBERT & S.IRVINE										VETCO
Approved by: TTE										W/FORD
Rig heading										GEODATA 6
										HALL.HLS 4
										SUBSEA 3
										SMITH 2
										HALL. CMT 1
										IDF 1
										AUST.OIL
										Total 69

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 14

Well Name:	KING 1	Total Depth:	1402m	Report Number:	14
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	10-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	14
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8	Days Since Spud:	12
Area:	BASS STRAIT	Shoe Depth:	1237.m	Progress Last 24hrs:	102m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	10-Nov-92
0:00	7:30	7.5	Drill frm 1300m to 1397m, Drlg Brk @ 1394m to 1397m.		
7:30	9:00	1.5	Flow check, circ Btms up for sample.		
9:00	9:30	0.5	Drop SS/survey, pump slug.		
9:30	11:00	1.5	POOH to HWDP, flow check @ shoe & @ HWDP.		
11:00	11:30	0.5	Retrieve survey W/ wireline, mis-run.		
11:30	13:00	1.5	Cont POOH for core bbl.		
13:00	15:00	2.0	M/up 18m core barrel.		
15:00	17:00	2.0	RIH to shoe.		
17:00	17:30	0.5	Service top drive.		
17:30	18:30	1.0	Cont RIH to 1250m, 20K drag.		
18:30	20:00	1.5	Ream frm 1250m to 1397m. 10K drag W/ reaming.		
TOTAL		24.0	(Continue next page)		

From	To	Hours	06:00hr Update	Date:	11-Nov-92	BHA #:	5	Length (m)	Qty
24:00	6:00	6.0	Continue POOH WCB, Recovered 3.5m of core (70% of 5m cut).			8.5" corehead		0.30	1
			M/up new core barrel & service same, RIH to cut core #2.			CORE BARREL		20.28	1
			Tag Btm @1402m cut core #2 Frm 1402m.			6.5" DC		148.60	16

Program next 24 Hours: Continue cut core #2 & recover.

Operation	Hours	Cum.	Mud properties				BHA #:	5	Length (m)	Qty
Rig move			Mud type	FWTRIDBOND		Time	22:00	5.0" HWDP.	138.43	15
Anchor handling		37.5	Mud wt. SG /ppg	1.12	9.33	Vis (sec/l)	58			
P/U-L/D BHA	2.5	33.0	PV / YP	14	23	pH	8.9	Total	345.22	
Drilling	7.5	69.5	Gels 10s / 10m	4	5	Solids %	5.5			
Reaming	1.5	4.0	API WL / HTHP	5.2		Oil %				
Circ. & cond.	1.5	14.0	Cake 32nd	1		Water %	94.5			
Trips	7.5	37.5	Pf / Mf	0.05	0.10	Sand %	0.25			
Survey		5.0	Cl / KCl	6500		MBT ppg	3			
Electric logging		9.0	Ca / Nitrate	420						

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks
Cementing	5.5					SMITH							
N/U test BOP	40.0		4	4	8.5	FDGH	NC2729	1397	151	10.5	14.3	3,5,ER,A,E,1/16	
Rig main./repair	0.5	3.0	CH #1	1	8.5	CD93	7911364	1402m	5m	2	2.5	SD-CP	
Coring	2.0	2.0	Pumps No	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Jet	Nozzle Size	WCB (KIPS)	RPM	Surveys	Depth (m) Deg.
Weather	26.5												
DST			1	6.5\12	62	1270	310	3X12		25	110		
P & A			2	6.5\12	50	950	250	C/D		10\20	60\90		
Other:	1.0	5.5	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2				
			DC:OH	DP:OH	DP:Csg	Riser (Psi)				470	700	Personnel on Rig	
Total	24.0	327.5	203	129	122	19	No Stks			30	.40	DMG	48

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	SHOWERS	SAGASCO	5
Maximum (KIPS)									Wind spd \ gust	10	GEODATA	6
Average (KIPS)	180	175	200	185	185	155	155	155	Wind direction	SW	HLS	4
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	NILL	Wave HGT \ sec	1\6	SUBSEA	3				
Location/ETA @ Rig		Rig/14:00hr	Pax on:	Pax off:	Swell HGT \ sec	1\6	SMITH	1				
Comments:					Swell direction	SW	HCS	1				
					Visibility (KM)	5	IDF	1				
					Heave	1M	D\BOART	1				
NOPE No. 203 6003		Daily Cost:	\$132,330	Pitch \ Roll	0.4\0.5							
Approved A\$7,525,200		Cumulative Cost:	\$3,603,332	Temp. deg C.	13							
Report prepared by: Lambert / Irvine		Approved by: TTE		Rig heading	262	Total	70					

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 15

Well Name:	KING 1	Total Depth:	1423m	Report Number:	15
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	11-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	15
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8	Days Since Spud:	13
Area:	BASS STRAIT	Shoe Depth:	1237.m	Progress Last 24hrs:	21m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	11-Nov-92
0:00	1:00	1.0	POOH WITH CORE BARREL.		
1:00	2:30	1.5	RECOVER CORE #1. CUT 5m, RECOVERED 3.5m, SERVICED CORE BARREL.		
2:30	5:00	2.5	RIH. TO CUT CORE #2.		
5:00	5:30	0.5	BREAK CIRC, DROP BALL & PUMPED DOWN.		
5:30	6:30	1.0	CUT CORE #2 FROM 1402m TO 1410.5m. BARREL JAMMED.		
6:30	10:00	3.5	POOH. FLOW CHECK AT BHA.		
10:00	11:30	1.5	RECOVERED CORE #2, CUT 8.5m, RECOVERED 5.7m. SERVICED CORE BARREL, STD IN DERRICK.		
11:30	15:00	3.5	MUP BHA. NO. 6 & RIH TO 1389m.		
15:00	15:30	0.5	REAM FROM 1389m TO 1410m.		
15:30	17:30	2.0	DRILL FRM 1410m TO 1423m, DRILL BREAK @ 1420m, FLOW CHECK.		
17:30	19:00	1.5	CIRC BTMS UP FOR SAMPLE.		

TOTAL 24.0 (Continue next page)

From	To	Hours	06:00hr Update	Date:	BHA #	6	Length (m)	Qty
0:00	6:00	6.0	CONT RIH, SLIP & CUT DRILL LINE, SLIPPED 711ft OF LINE.		8.5" BIT		0.25	1
			CONTINUE RIH TO CUT CORE #3.		8.5" N / B STAB.		1.28	1
					6.5" MONEL DC.		9.22	1
					8.5" S / STAB.		1.38	1

Program next 24 Hours: CORING, DA 8.5"HOLE.

Operation	Hours	Cum.	Mud properties				18:30	6.5" DCS.	167.25	17
Anchor move			Mud type	Freshwater/IDBOND	Time	18:30	6.5" DRLG / JARS	9.72	1	
Anchor handling		37.5	Mud wt. SG /ppg	1.14	9.50	Vis (sec/l)	54	6.5" DCS.	27.89	3
P/U-L/D BHA		33.0	PV / YP	19	27	pH	8.9	5" HWDP.	138.43	15
Drilling	2.0	71.5	Gels 10s / 10m	5	6	Solids %	7			
Reaming	0.5	4.5	API WL / HTHP	5.3		Oil %		TOTAL BHA.	355.42	
Circ. & cond.	1.5	15.5	Cake 32nd	1		Water %	93			
Trips	15.5	53.0	Pf / Mf	0.05	0.10	Sand %	tr			
Survey		5.0	Cl / KCl	5500		MBT ppg	3			
Electric logging		9.0	Ca / Nitrate	320						

Operation	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth	Metres	Hours	Rate	Condition
Casing		35.5										Remarks
Cementing		5.5										
N/U test BOP		40.0	CH/1	2	8.5	CD93	7911364	1410.5	8.5	1	8.5	NEW.
Rig main/repair		3.0	5	1	8.5	F 1	NO1447	1423	13	2	6.5	NEW
Coring	4.5	6.5	Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WOB	FRM		Surveys
Weather		26.5	No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)			Depth (m) Deg.
DST			1	6.5	52	800	260	CORE HEAD	5112	55170		
P & A			2	6.5	58	1500	2.9	2XI NIX10	20	100		
Other:		5.5	Annular velocity (m/min)				SFR	Pump No 1	Pump No 2			
			DC/CH	DP/CH	DPxCsg	Riser	(Psi)			500	700	Personnel on Rig
Total	24.0	351.5	203	129	122	19	No Stks	C\B		30.	40	DMG 49
Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	COLDWINDY		
Maximum (KIPS)									Wind spd \ gust	24	SAGASCO 6	
Average (KIPS)	180	185	200	185	180	150	165	180	Wind direction	SW	GEODATA 6	
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:		2	Wave HGT \ sec		1m	SUBSEA 3			
Location/ETA @	Bell Bay @ 21:00	Rig	Pax on:	10	Pax off:	7	Swell HGT \ sec		2m\6	SMITH 1		
							Swell direction		SW	HCS 1		
							Visibility (KM)		12	IDF 1		
							Heave		1m	DIBOART 1		
							Pitch \ Roll		2\3	DISER 1		
							Temp. deg C.		14c			
							Rig heading		262	Total 73		

Comments:

NOPE No. 203 6003 Daily Cost: \$156,917
 Approved A\$7,525,200 Cumulative Cost: \$3,760,249

REPORT PRARED BY: J.LAMBERTS.IRVINE.

Approved by: TTE

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 16

Well Name:	KING 1	Total Depth:	1440m	Report Number:	16
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	12-nov-92.
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	16
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8	Days Since Spud:	14
Area:	BASS STRAIT	Shoe Depth:	1237.m	Progress Last 24hrs:	17m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	12-nov-92.
0:00	1:00	1.0	CONT TO RIH.TO 1219.M. DRLG LINE WAS CUT SEVERAL TIMES TO ELIMINATE BAD LINE		
	4:30	3.5	SLIP & CUT 216M OF DRILLING LINE		
	5:00	0.5	CONT. TO RIH.0.5M OF FILL.		
	7:00	2.0	CIRC. TAKE SCR. CUT CORE NO.3.		
	10:30	3.5	POOH.		
	11:00	0.5	RECOVERED CORE NO.3. CUT 10.5M RECOVERED 9.4M.		
11:00	12:00	1.0	RIH,DRLG BHA. POOH.		
12:00	14:30	2.5	RIH.WCORE BHA.No4 TO 1401m		
14:30	15:00	0.5	WASH TO BOTTOM @1434m		
15:00	15:30	0.5	LD DAMAGED D.P.SINGLE CHECK SUB.		
15:30	17:00	1.5	DROP BALL CUT CORE No4. F 1434m TO 1440m BARREL JAMMED		
17:00	20:00	3.0	POOH W CORE No4. FLOW CHECK AT SHOE & AT BHA		

From	To	Hours	06:00hr Update	Date:	11-Nov-92	BHA #:	7 & 8	Length (m)	Qty
24:00	6:00	6.0	CONT,RIH TAG @1424m WASH & REAM F 1424m TO BOTTOM @ 14			8.5	CORE BIT	0.30	1
			DRLG 8.5 HOLE F 1440m TO 1534m				C / BARREL.	20.28	1
							6.5*DCS	148.60	16
							D / JARS.	9.72	1
							6.5*DCS	27.89	3
							5*HWDP.	138.43	15

Program next 24 Hours:

Operation	Hours	Cum.	Mud type	FWTR.IDBOND	Time	16:30	5*HWDP.	Length (m)	Qty
Rig move			Mud type						
Anchor handling		37.5	Mud wt. SG /ppg	1.14	9.50	56			
P/U-L/D BHA		33.0	PV / YP	14	18	9.1	TOTAL BHA.	345.22	
Drilling		71.5	Gels 10s / 10m	3	8	5			
Reaming	0.5	5.0	API WL / HTHP	6-Jan					
Circ. & cond.		15.5	Cake 32nd	1		95			
Trips	15.0	68.0	PI / MI	.1\2		0.25			
Survey		5.0	CI / KCI	5500		4			
Electric logging		9.0	Ca / Nitrate	220				345.22	

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks	
Cementing		5.5												
N/U test BOP		40.0	C B 1.	RR / 3	8.5"	CD 93.		1434	10.5	2	5.25	NEW.		
Rig main./repair		3.0	C B 1.	RR / 4	8.5"	CD 93.		1440	6	1.5	4	NEW		
Coring	5.0	11.5	Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WOB	FFM		Surveys		
Weather		26.5	No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)			Depth (m)	Deg.	
DST			2	6.5"	50	850	250			10	55/80			
P & A														
other	3.5	9.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2					

Total	Hours	Cum.	DCOH	DPxCH	DPxCag	Riser	(Psi)	No Stks	310	500	Personnel on Rig	
									30	40	DMG	47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	COOLDRY	SAGASCO	5
Maximum (KIPS)									Wind spd \ gust	5\10.	GEODATA	6
Average (KIPS)	185	170	195	185	155	165	165	175	Wind direction	SE	HLS	4
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig	1	Wave HGT \ sec	1m	SUBSEA	3				
Location/ETA @ B / BAY	STDBY	Pax on:	1	Pax off:	3	Swell HGT \ sec	.5m	SMITH	1			

Comments:	Swell direction	SE	HALCO	1
	Visibility (KM)	15	IDF	1
	Heave	1m	DIABRT	1
NOPE No. 203 6003	Pitch \ Roll	2\2	DRILSER	1
Approved A\$7,525,200	Temp. deg C.	13	CULTUS	1
Report prepared by: J.LAMBERT. S.IRVINE	Rig heading	262	Total	71

Daily Cost: \$165,001 Cumulative Cost: \$3,925,250

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 17

Well Name:	KING 1	Total Depth:	1734m	Report Number:	17
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	13/11/92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	17
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8	Days Since Spud:	15
Area:	BASS STRAIT	Shoe Depth:	1237.m	Progress Last 24hrs:	294m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	13/11/92
0:00	0:30	0.5	RIH to 1424m.		
0:30	1:00	0.5	WASH & REAM 1424m to 1440m, AVG. AMPS 150.		
1:00	6:00	5.0	DRILLED 1440m to 1540m, FLOW CHECK @ 1561m, REAMED CONNS. TOOK SCR'S @ 1468m, AVG. AMPS 100.		
6:00	7:00	1.0	CIRC BTMS UP AND FLUSHED RISER.		
7:00	8:00	1.0	DROPPED @ RETRIEVED SURVEY - MISRUN.		
8:00	12:00	4.0	DRILLED 1540m to 1583m, REAM CONN, FLOW CHECK @ 1562m 7 1580m. MAX Torque 500 AMPS.		
12:00	23:30	11.5	CONT TO DRLG F\1583m TO 1734m, REAM CONNECTIONS.		
23:30	24:00	0.5	CIRC BOTTOMS UP FOR WIPER TRIP.		
TOTAL		24.0			

From	To	Hours	06:00hr Update	Date:	14-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	CONT CIRC BTMS UP, DROP SURVEY, POOH TO SHOE, TIGHT HOLE			BIT	0.25	
			F\1701m to 1561m, WORK PIPE W/ 50k DRAG. WASH & BREAM			NB STB	1.28	1
			F\1586m to 1516m, 40-60k DRAG. POOH F\1516m to 1384m.			6.5NMDC	9.22	1
Program next 24 Hours:			HOLE TIGHT F\1384m to SHOE, 30-50k DRAG IN SPOTS.			8.5STB	1.38	1

Operation	Hours	Cum.	Mud properties				23:00	STB	Length (m)	Qty
Rig move			Mud type		FWTR	IDBOND	Time			
Anchor handling		37.5	Mud wt. SG /ppg	1.13	9.42	Vis (sec/l)	55	6.5DCS	157.64	17
P/U-L/D BHA		33.0	PV / YP	17	38	pH	9	JARS	9.72	1
Drilling	20.5	92.0	Gels 10s / 10m	9	13	Solids %	4	6.5DCS	27.88	3
Reaming	0.5	5.5	API WL / HTHP	6.8.		Oil %		5HWDP	138.43	15
Circ. & cond.	1.5	17.0	Cake 32nd	1		Water %	96			
Trips	0.5	68.5	Pf / Mf	0.1	0.40	Sand %	tr			
Survey	1.0	6.0	Cl / KCl	4000		MBT ppg	4			
Electric logging		9.0	Ca / Nitrate	1.6						
								Total	355.11	

Operation	Hours	Cum.	Bit	Run	Size	Type	Serial	Depth	Metres	Hours	Rate	Condition			
Casing		35.5	No.	No.		SMITH	No.	Out	Drilled		(m/Hr)	Remarks			
Cementing		5.5													
N/U test BOP		40.0	RR\5.	2	8.5	F1	NO1447	Inc	294	15.5	19				
Rig main./repair		3.0													
Coring		11.5	Pumps	Liner	SFM	Press.	Output	Bit Nozzle	WCB	RFM		Surveys			
Weather		26.5	No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)			Depth (m) Deg.			
DST			1	6.5X12	64	1975	320	2X11-1X10	35	100					
P & A			2	6.5X12											
Other:		9.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2						
			DOG	DPxOH	DPxCsg	Riser	(Psi)	500	740	530	770	40			
Total			24.0	399.5	86	55	51	7.9.	No Stks	30	40	30	40	DMG	47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	FINE	SAGASCO				
Maximum (KIPS)									Wind spd \ gust	8.0	GEODATA				
Average (KIPS)	180	170	190	185	185	155	165	175	Wind direction	E	HLS				
Workboats Terje Viking			RAGNA VIKING			Helicopter flights to rig:			3	Wave HGT \ sec	.5m\4	SUBSEA			
Location/ETA @			BELL BAY			RIG			Pax on:	8	Pax off:	11	Swell HGT \ sec	1.0m\6	HCS
Comments:										Swell direction	E	IDF			
										Visibility (KM)	15.0	D\BOART			
										Heave	.3m				
NOPE No. 203 6003										Pitch \ Roll	.3\4				
Approved A\$7,525,200										Temp. deg C.	14.0				
Report prepared by: A.CHAPMAN \S.IRVINE										Rig heading	262	Total	67		
Daily Cost: \$154,073															
Cumulative Cost: \$4,079,323															
Approved by: TTE															

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 18

Well Name:	KING 1	Total Depth:	1888m	Report Number:	18
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	14/11/92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	18
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8"	Days Since Spud:	16
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	154m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs						Date:	14/11/92			
0:00	0:30	0.5	CIRC BOTTOMS UP & FLUSHED RISER.										
0:30	1:00	0.5	DROPPED SURVEY, PUMPED SLUG.										
1:00	6:00	5.0	POOH TO SHOE. WORKED PIPE 1701m to 1591m, MAX O/PULL 70K.										
			WASHED & REAMED 1586m to 1557m, MAX O/PULL 50K @ 1569M, WASHED 1557m to 1516m.										
			MAX O/PULL 50K @ 1516m, WORKED & WASHED PIPE 1516m to 1415m & 1384m to 1327m.										
			MAX ROTARY AMPS 600.										
6:00	6:30	0.5	SERVICED TOP DRIVE.										
6:30	7:00	0.5	RETRIEVE SURVEY, Inc: .75deg @ S3E.										
7:00	8:30	1.5	RIH, WASHED & REAMED 1688m to 1734m.										
8:30	19:30	11.0	DRILLED 1734m to 1869m.										
19:30	20:30	1.0	CIRC FOR WRIPER TRIP.										
TOTAL													
From	To	Hours	06:00hr Update						Date:	15-Nov-92			
24:00	6:00	6.0	DRLG F\1888m to 1964m.						BHA #:	8			
			TORQUE: +/- 300AMPS.						Length (m)	0.25			
									Qty	1.28			
									6.5" NMDC	9.20			
			Program next 24 Hours: Drill ahead 8.5"hole.						8.5" STAB	1.38			
									6.5" DC	9.31			
Operation	Hours	Cum.	Mud properties						6.5" STAB	1.60			
Rig move			Mud type	FWTR IDBOND		Time	1:00	8.5" STAB	1.60				
Anchor handling		37.5	Mud wt. SG /ppg	1.12	9.30	Vis (sec/l)	50	6.5" DC	157.68 17				
P/U-L/D BHA		33.0	PV / YP	18	26	pH	9.5	JARS	9.72				
Drilling	12.5	104.5	Gels 10s / 10m	7	11	Solids %	4	6.5" DC	27.88 3				
Reaming	0.5	6.0	API WL / HTHP	5.4.		Oil %		5" HWDP	138.43 15				
Circ. & cond.	1.5	18.5	Cake 32nd	1		Water %	96						
Trips	8.0	76.5	Pf / Mf	0.1	0.40	Sand %	tr						
Survey	1.0	7.0	Cl / KCl	3600		MBT ppg	7						
Electric logging		9.0	Ca / Nitrate	200				TOTAL BHA	356.73				
Casing		35.5	Bit	Run	Size	Type	Serial	Depth	Metres	Hours	Rate	Condition	
Cementing		5.5	No.	No.		SMITH	No.	Out	Drilled		(M/Hr)	Remarks	
N/U test BOP		40.0	RR\5	2	8.5	F1	NO1447	Inc	448	29	15.4		
Rig main./repair	0.5	3.5											
Coring		11.5	Pumps	Liner	SFM	Press.	Output	Bit Nozzle	WOB	RFM	Surveys		
Weather		26.5	No		(comb)	(PSI)	GFM	Jet Size	(KIPS)		Depth (m)	Deg.	
DST			1	6.5X12	66	1960	329	2X11-1X10	35	100	1734m	0.8	
P & A													
Other:		9.0	Annular velocity (m/min)				SPR	Pump No 1		Pump No 2			
			DC\OH	DP\OH	DPxCsg	Riser	(Psi)	510	800	5.2	790	Personnel on Rig	
Total	24.0	423.5	86	55	51	7.9	No Stks	30	40	30	40	DMG	47
Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	FINECOOL		SAGASCO	4
Maximum (KIPS)									Wind spd \ gust	22		GEODATA	6
Average (KIPS)	180	175	185	180	185	155	165	175	Wind direction	ENE		HLS	4
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:			1			Wave HGT \ sec	1m		SUBSEA	3
Location/ETA @	BELL BAY	RIG	Pax on:	0	Pax off:	0			Swell HGT \ sec	.5\6		HCS	1
Comments:									Swell direction	ENE		IDF	1
									Visibility (KM)	16		D\BOART	1
									Heave	0.6			
									Pitch \ Roll	.3\3			
									Temp. deg C.	14			
									Rig heading	262		Total	67
NOPE No. 203 6003			Daily Cost:			\$130,986							
Approved A\$7,525,200			Cumulative Cost:			\$4,210,309							
Report prepared by: A.CHAPMAN\S.IRVINE.						Approved by: TTE							

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 19

Well Name:	KING 1	Total Depth:	2041M	Report Number:	19
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	15-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	19
Contractor:	DIAMOND M GENERAL CO.	Last Ceg. Size:	9 5/8	Days Since Spud:	17
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	153m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	15-Nov-92
0:00	14:00	14.0	DRILL F1888m to 2041m, FLOW CHECK @ 2038m HINTORQUE 700amps.		
14:00	15:00	1.0	CIRC BTMS UP FOR TRIP.		
15:00	23:30	8.5	DROP SURVEY, POOH FOR BIT CHANGE. TIGHT HOLE BACK REAM F1 2041m to 1586m.		
			GOOD HOLE F1 1586m to SHOE, FC @ SHOE, CONT POOH FC HWDP, RETRIEVE SURVEY, MISRUN.		
23:30	24:00	0.5	MU WEAR BUSHING RRTTOOL. RIH RETRIEVE WB.		

TOTAL 24.0

From	To	Hours	06:00hr Update	Date:	16-Nov-92	BHA #:	Length (m)	Qty
24:00	6:00	6.0	PRESSURE TEST BOP, 250psi LOW & 5000psi HIGH.			8.5" BIT	0.25	
			RIH & SET WB, TEST TOP DRIVE VALVES.			NB STAB	1.28	
						6.5" NMDC	9.20	

Program next 24 Hours: TEST MANIFOLD, DRILL AHEAD 8.5" HOLE.

Operation	Hours	Cum.	Mud properties				Time	BHA #	Length (m)	Qty
Rig move			Mud type	FWTR.IDBOND		15:00	8.5" STAB	1.60		
Anchor handling	37.5		Mud wt. SG /ppg	1.12	9.34	Vis (sec/l)	50	6.5" DC	157.68	17
P/U-L/D BHA	33.0		PV / YP	18	25	pH	9	JARS	9.72	
Drilling	14.0	118.5	Gels 10s / 10m	7	12	Solids %	5	6.5" DC	27.88	3
Reaming	6.0		API WL / HTHP	5.8		Oil %		5" HWDP	138.43	15
Circ. & cond.	1.0	19.5	Cake 32nd	1		Water %	95			
Trips	8.5	85.0	Pf / Mf	0.1	0.20	Sand %	tr			
Survey	7.0		Cl / KCl	4000		MBT ppg	10			
Electric logging	9.0		Ca / Nitrate	240						
								TOTAL	356.73	

Operation	Hours	Cum.	Bit No	Run No	Size	Type	Serial No	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Casing	35.5											
Cementing	5.5					SMITH						
N/U test BOP	0.5	40.5	RR15	2	8.5	F1	NO1447	2041m	601m	49	12.2	2,2,BT,M123,
Rig main./repair	3.5									total		E,I,JD,ST.
Coring	11.5		Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WCB	RFM		Surveys
Weather	26.5		No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)			Depth (m) Deg.
DST			1	6.5\12		66	1950	330	2X11 & 1X10	35	100	
P & A			2	6.5\12								
Other:	9.0		Annular velocity (m/min)				SFR	Pump No 1	Pump No 2			
			DPxCH	DPxCH	DPxCeg	Riser	(Psi)	510	770	530	780	Personnel on Rig
Total	24.0	447.5	86	55	51	7.9	No Stks	30	40	30	40	DMG 47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	FINE/COLD	SAGASCO
Maximum (KIPS)									Wind spd \ gust	10	GEODATA 6
Average (KIPS)	175	175	185	185	185	170	170	185	Wind direction	ESE	HLS 5
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:		2	Wave HGT \ sec	1m	SUBSEA 3			
Location/ETA @	BELL BAY	RIG	Pax on:	7	Pax off:	3	Swell HGT \ sec	.5m	HCS 1		
Comments:									Swell direction	ESE	IDF 1
									Visibility (KM)	12	SSL 2
									Heave	.6m	AUST/OIL 1
									Pitch \ Roll	.3\1.4	
									Temp. deg C.	15	
									Rig heading	262	Total 71

NOPE No. 203 6003 Daily Cost: \$137,120
 Approved A\$7,525,200 Cumulative Cost: \$4,347,429

Report prepared by: A.CHAPMAN S.IRVINE.

Approved by: TTE

SAGASCO Resources Ltd.

296081

DAILY DRILLING REPORT

DDR 1 - 21

Well Name: KING 1	Total Depth: 2223m	Report Number: 21
Permit Number: T/18P	Water Depth: 72.5m	Report Date: 17-Nov-92
Rig Name: OCEAN EPOCH	RT to SB: 94.8m	Days on Location: 21
Contractor: DIAMOND M GENERAL CO.	Last Csg. Size: 9 5/8"	Days Since Spud: 19
Area: BASS STRAIT	Shoe Depth: 1237m	Progress Last 24hrs: 84m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date: 17-Nov-92
0:00	9:30	9.5	DRILL FRM 2139m to 2223m, REAM CONNECTIONS, FLOW CHECK @ 2183m & 2200m.	
9:30	10:30	1.0	CIRC BTMS UP, COND HOLE, FLUSH RISER, RECORD SCR.	
10:30	12:00	1.5	POOH, BACK REAM FRM 2158m to 2044m.	
12:00	15:30	3.5	CONT POOH, BACK REAM FRM 2015m to 1701m, MAX O/PULL 50K, MAX TORQUE 600 amps.	
15:30	16:30	1.0	POOH TO SHOE, HOLE IN GOOD CONDITION.	
16:30	18:30	2.0	FLOW CHECK, RIH TO 2182m, WASH & REAM TO BTM 2223m.	
18:30	21:00	2.5	CIRC HOLE CLEAN & CONDITION MUD.	
21:00	24:00	3.0	DROP MULTI-SHOT SURVEY, POOH SLM, HOLE IN GOOD CONDITION.	
TOTAL		24.0		

From	To	Hours	06:00hr Update	Date: 18-Nov-92	BHA #:	Length (m)	Qty
0:00	5:00	5.0	CONT POOH, RETRIEVE SURVEY, MAX INC: 2deg on BTM.		8.5" BIT	0.25	
			R/UP HLS FOR LOGGING,		NB STAB	1.28	
5:00	6:00	1.0	RIH HLS LOG RUN #1: HRI-LSS-MSFL-GR-SP.		6.5" NMDC	9.20	
Program next 24 Hours:			WIRES LINE LOGGING 8.5" HOLE.		8.5" STAB	1.38	
Operation			Mud properties		6.5" DC	9.31	

Operation	Hours	Cum.	Mud type	Freshwater/IDBOND	Time	19:00	8.5" STAB	1.60
Rig move			Mud type					
Anchor handling		37.5	Mud wt. SG /ppg	1.14	9.50	Vis (sec/l)	53	6.5" DC 157.68 17
P/U-L/D BHA		33.0	PV / YP	19	23	pH	9.5	JARS 9.72
Drilling	9.5	138.0	Gels 10s / 10m	8	12	Solids %	6	6.5" DC 27.88 3
Reaming	3.5	10.0	API WL / HTHP	6.8		Oil %		5" HWDP 138.43 15
Circ. & cond.	3.5	23.0	Cake 32nd	1		Water %	91	
Trips	7.5	97.5	Pf / Mf	0.20	0.40	Sand %	tr	
Survey	7.0		Cl / KCl	3500		MBT ppg	10.0	
Electric logging	9.0		Ca / Nitrate	120				
							TOTAL	356.73

Casing	Hours	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks	
Cementing	5.5				SMITH							
n/U test BOP	49.0	6		8.5"	F1	NC0572	2223	184	19.5	9.4	2,3,BT,A,	
Rig main/repair	3.5										E,I,-TD.	
Coring	11.5										Surveys	
Weather	26.5										Depth (m) Deg.	
DST		1	6.5x12	65	2000	324	2x11 & 1x10		35	100		
P & A												
Other:	9.0	Annular velocity (m/min)				SFR	Pump No 1		Pump No 2			
		DOxOH	DPxOH	DPxCsg	Riser	(Psi)	520	780	500	770	Personnel on Rig	
Total	24.0	495.5	86	55	51	8	No Stks	30	40	30	40	DMG 47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Rain	SAGASCO
Maximum (KIPS)									Wind spd \ gust	30\40	GEODATA 6
Average (KIPS)	165	160	175	175	190	170	195	195	Wind direction	E	HLS 5
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:		0	Wave HGT \ sec	2\10	SUBSEA 3			
Location/ETA @	Rig	Bell Bay	Pax on:	Pax off:		Swell HGT \ sec	3.5\10	HCS 1			

Comments:										Swell direction	E	IDF 1
										Visibility (KM)	10	SSL 2
										Heave	1.0	AUSTOIL 1
										Pitch \ Roll	3\4	
										Temp. deg C.	15	
										Rig heading	262	Total 72

NOPE No. 203 6003 Daily Cost: \$134,427
 Approved A\$7,525,200 Cumulative Cost: \$4,625,899
 Report prepared by: A. Chapman / S. Irvine Approved by: TTE

SAGASCO Resources Ltd.

296083

DAILY DRILLING REPORT

DDR 1 - 22

Well Name: KING 1	Total Depth: 2223m	Report Number: 22
Permit Number: T/18P	Water Depth: 72.5m	Report Date: 18-11-92
Rig Name: OCEAN EPOCH	RT to SB: 94.8m	Days on Location: 22
Contractor: DIAMOND M GENERAL CO.	Last Csg. Size: 9 5/8	Days Since Spud: 20
Area: BASS STRAIT	Shoe Depth: 1237m	Progress Last 24hrs: NIL

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date: 18-11-92
0:00	0:30	0.5	RETRIEVE MULTI-SHOT SURVEY.	
0:30	3:30	3.0	P.O.O.H SLM (NO CORRECTION) REMOVED CORR. RINGS FLOW CHK. @1119m.	
3:30	4:00	0.5	R/UP TO LOG.	
4:00	5:00	1.0	PICK UP & CALIBRATE TOOLS.	
5:00	8:00	3.0	RAN LOG NO.1: MSFL- HRI- SONIC- CAL- GR TO 2223m.	
8:00	10:30	2.5	TOOL MALFUNCTIONED, POOH FOR REPAIRS.	
10:30	14:00	3.5	RERUN LOG NO.1: MSFL-HRI-SNOIC-CAL-GR TO 2223m.	
14:00	17:00	3.0	RIG UP TOOLS FOR LOG No2.	
17:00	22:00	5.0	HYDRAULIC LOCK FAILURE ON COMPENSATOR, REPAIR SAME.	
22:00	24:00	2.0	RIG UP & RIH W LOG No2: SDL-DSNII-CSNG-ML-DTD.	

TOTAL 24.0

From	To	Hours	06:00hr Update	Date: 19-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	CONT LOGGING W RUN No2. LOGGERS DEPTH 2218m.				
			RIG DOWN LOG No2 & RIG UP LOG No3: HFDT.				

Program next 24 Hours: CONTINUE LOGGING

Operation	Hours	Cum.	Mud properties				Time	24:00
			Mud type	FWTR.IDBOND		Vis (sec/l)		
Rig move			Mud wt. SG /ppg	1.14	9.50	53		
Anchor handling	37.5		PV / YP	23	30	9.5		
P/U-L/D BHA	33.0		Gels 10s / 10m	9	13	6		
Drilling	138.0		API WL / HTHP	6.8				
Reaming	10.0		Cake 32nd	1		94		
Circ. & cond.	23.0		Pf / Mf	0.2	0.50	tr		
Trips	3.0	100.5	Cl / KCl	3500		10		
Survey	0.5	7.5	Ca / Nitrate	120				
Electric logging	15.5	24.5					TOTAL 0.00	

Operation	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks	
Casing		35.5				SMITH								
Cementing	5.5	49.0												
N/U test BOP		49.0												
Rig main./repair	5.0	8.5												
Coring	11.5		Pumps	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Jet	Nozzle Size	WOB (KIPS)	RFM	Surveys		
Weather	26.5		No									Depth (m)	Deg.	
DST														
P & A														
Other:		9.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2					
			DPxOH	DPxOH	DPxCsg	Riser	(Psi)						Personnel on Rig	
Total	24.0	519.5					No Stks						DMG 47	

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	RAINY/WARM		SAGASCO			
Maximum (KIPS)									Wind spd \ gust	5k		GEODATA			
Average (KIPS)	170	155	175	180	190	160	180	190	Wind direction	E		HLS			
Workboats	Terje Viking		Ragna Viking		Helicopter flights to rig:			1	Wave HGT \ sec	1m		SUBSEA			
Location/ETA @	RIG		BELL BAY		Pax on:	8	Pax off:	10	Swell HGT \ sec	1m		HCS			
Comments:									Swell direction	E		IDF			
									Visiblity (KM)	14		SSL			
									Heave	.6m		AUSTOIL			
									Pitch \ Roll	.2\3					
									Temp. deg C.	14					
Report prepared by: A.CHAPMAN. S.IRVINE										Approved by: TTE		Rig heading	262	Total	70

NOPE No. 203 6003
Approved A\$7,525,200

Daily Cost: \$208,151
Cumulative Cost: \$4,834,050

296084

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 22

Well name: King 1

Report no: 22

Date: 18-11-92

From	To	Hours	Continue Description of Operating Activity	Date: 18-11-92

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	2756	1288		
Bentonite (sacks)	932	9.4		
Cement (sacks)	1707	MT.		
Pot water (tonne)	90	242		
Drill water (tonne)	424	555		
Fuel (tonne)	296	376.89		
Jet A1 (litres)	1212			
Fuel used last 24hrs.	7	1.7	1	Daily fuel cost: \$2,949

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0					0
Cum cost:								Daily cost:	\$0

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement				0	
Chemicals:				0	
				0	
				0	
				0	
Daily cost:					\$0

Tools & consumables Description	Serial	Rental/ day	Purchase price	Comments
Catering			600	
Wharf			500	
Helicopter			2064	
Freight			100	
Specialty services			850	
Electric logging			75000	
Daily cost:				\$79,114

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 23

Well Name:	KING 1	Total Depth:	2223m	Report Number:	23
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	19-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	23
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8	Days Since Spud:	21
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	NIL

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	19-Nov-92
0:00	4:30	4.5	RUN LOG NO 2: SDL-DSNII-CSNG-ML-DTD.		
4:30	6:00	1.5	R/UP FOR LOG NO 3.		
6:00	9:30	3.5	RUN LOG NO 3: HFDT-GR.		
9:30	10:30	1.0	R/UP FOR LOG NO 4.		
10:30	13:30	3.0	RUN LOG NO 4: SED-GR.		
13:30	14:00	0.5	R/DWN HLS FOR WIPER TRIP.		
14:00	18:00	4.0	M/UP BHA & RIH TO 2100m.		
18:00	19:00	1.0	WASH & REAM TO BTM 2223m, NO FILL.		
19:00	21:30	2.5	CIRC HOLE CLEAN, 1.25% GAS @ BTMS UP.		
21:30	24:00	2.5	FLOW CHECK, PUMP SLUG & POOH. HOLE IN GOOD CONDITION.		

TOTAL 24.0

From	To	Hours	06:00hr Update	Date:	20-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	CONT POOH. R/UP HLS.			8.5" BIT	0.25	
			RUN LOG NO 5: SFT-GR-DTD.			NB STAB	1.28	
						6.5" NMDC	9.20	

Program next 24 Hours: CONTINUE LOGGING

Operation	Hours	Cum.	Mud properties				Time	24:00	BHA #	Length (m)	Qty
Rig move			Mud type		FWTR.IDBOND			24:00	8.5" STAB	1.60	
Anchor handling		37.5	Mud wt. SG /ppg	1.15	9.59	Vis (sec/l)	60	6.5" DC	157.68	17	
P/U-L/D BHA		33.0	PV / YP	23	30	pH	9.5	JARS	9.72		
Drilling		138.0	Gels 10s / 10m	9	13	Solids %	6	6.5" DC	27.88	3	
Reaming	1.0	11.0	API WL / HTHP	6.8		Oil %		5" HWDP	138.43	15	
Circ. & cond.	2.5	25.5	Cake 32nd	1		Water %	94				
Trips	6.5	107.0	Pf / Mf	0.10	0.20	Sand %	tr				
Survey		7.5	Cl / KCl	3500		MBT ppg	10				
Electric logging	14.0	38.5	Ca / Nitrate	200				TOTAL	356.73		

Operation	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Casing		35.5			8.5"	F1	NC0572					Wiper trip
Cementing		5.5										
N/U test BOP		49.0	RR6									
Rig main./repair		8.5										
Coring		11.5	Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WOB	RFM	Surveys	
Weather		26.5	No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)		Depth (m)	Deg.
DST			1	6.5x12	65	1950	324	2x11, 1x10				
P & A												
Other:		9.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2			
			DPxOH	DPxOH	DPxCsg	Riser	(Psi)					Personnel on Rig
Total	24.0	543.5	58	56	51	7.9	No Stks					DMG 47
Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	RAIN		SAGASCO 6
Maximum (KIPS)									Wind spd \ gust	12		GEODATA 4
Average (KIPS)	170	180	180	190	190	165	180	185	Wind direction	E		HLS 5
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	0					Wave HGT \ sec	0		SUBSEA 3
Location/ETA @	RIG	BELL BAY	Pax on:	0	Pax off:	0			Swell HGT \ sec	2		HCS 1
									Swell direction	E		IDF 1
									Visibility (KM)	8		SSL 2
									Heave	0.6		AUSTOIL 1
									Pitch \ Roll	11.5		
									Temp. deg C.	13		
									Rig heading	262		Total 70

Comments:	
NOPE No. 203 6003	Daily Cost: \$213,886
Approved A\$7,525,200	Cumulative Cost: \$5,047,936
Report prepared by: A.CHAPMAN. / S.IRVINE	Approved by: TTE

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 24

Well Name:	KING 1	Total Depth:	2223m	Report Number:	24
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	20/11/92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	24
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8	Days Since Spud:	22
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	NIL

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	20/11/92
0:00	2:30	2.5	POOH FOR LOGS, FLOW CHECK AT SHOE AND B.H.A.		
2:30	3:00	0.5	R/UP TO LOG.		
3:00	3:30	0.5	M/UP SFT-GR.		
3:30	12:30	9.0	RAN SFT-GR. PRESSURES TAKEN @: 1399, 1403.25, 1407.5, 1410.25, 1411.5, 1416.1, 1420.5, 1423, 1427, 1431, 1436.25, 1440, 1450.5, 1460.5, 1459, 1463, 1466, 1469, 1472, 1475, 1484, 1485.25, 1486.		
12:30	15:00	2.5	RIH W/ SFT #2, TAKE 1 SAMPLE @ 1436m, POOH.		
15:00	19:30	4.5	RIH W/ SFT #3, TAKE SAMPLE @ 1460m, POOH.		
19:30	24:00	4.5	RIH W/ SFT #4, PRETEST DEPTHS @ 1734, 1785, 1915, 2122m, TAKE SAMPLE No3 @ 2053m. TOOL OUT OF HOLE @ 01:30.		
NOTE: ALL SAMPLES TAKEN WERE FILTRATE & FORMATION WATER.					

TOTAL 24.0

From	To	Hours	06:00hr Update:	Date:	21/11/92	BHA #:	Length (m)	Qty
0:00	06:00	6.0	POOH W/ SFT #4, R/DOWN SAME, R/ UP VSP @ 02:30.					
			RIH W/VSP, UNABLE TO PASS 1902m, LOG UP FRM 1902m.					
			AFTER LOGGING ADD MORE WEIGHT & ATTEMPT TO PASS 1902m.					

Program next 24 Hours: CONT W/ VSP. PREPARE TO PLUG & ABANDON.

Operation	Hours	Cum.	Mud properties					
Rig move			Mud type	FWTR IDBOND		Time	24:00	
Anchor handling		37.5	Mud wt. SG /ppg	1.15	9.58	Vis (sec/l)	60	
P/U-L/O BHA		33.0	PV / YP	23	30	pH	9.5	
Drilling		138.0	Gels 10s / 10m	9	13	Solids %	6	
Reaming		11.0	API WL / HTHP	6.8		Oil %		
Circ. & cond.		25.5	Cake 32nd	1		Water %	94	
Trips	2.5	109.5	Pf / Mf	0.1	0.2	Sand	tr	
Survey		7.5	Cl / KCl	3500		MBT ppg	10	
Electric logging	21.5	60.0	Ca / Nitrate	160				

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Cementing		5.5				SMITH						
N/U test BOP		49.0										
Rig main/repair		8.5										
Coring		11.5	Pumps No.	Liner size	SPM (comb)	Press. (PSI)	Output GFM	Bit Jet	Nozzle Size	WCB (KIPS)	FFM	Surveys Depth (m) Deg.
Weather		26.5	1	6.5X12								
DST			2	6.5X12								
P & A												
Other:		9.0	Annular velocity (m/sec)			SPR	Pump No 1	Pump No 2				
			DCOH	DPxOH	DPxCsg	Riser (PSI)						Personnel on Rig
Total	24.0	567.5				No Stks						DMG 47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	WINDY/RAINY	Personnel on Rig	
Maximum (KIPS)									Wind spd/gust	30	SAGASCO 6	
Average (KIPS)	170	160	180	180	200	175	185	195	Wind direction	E	GEODATA 4	
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:			O	Wave HGT/sec	.3m			HLS 5	
Location/ETA @	STD\BY	BELL BAY	Pax on	O	Pax off	O	Swell HGT/sec	3.0m			SUBSEA 3	
Comments:										Swell direction	E	HCS 1
										Visibility (KM)	8	IDF 1
										Heave	.66m	SSL 2
										Pltch / Roll	1.25/2.	AUSTOIL 1
										Temp. deg C.	16	
										Rig heading	262	Total 70

NOPE No. 203 6003 Daily Cost: \$210,287

Approved A\$7,525,200 Cumulative Cost: \$5,258,223

Report prepared by: A.CHAPMAN. S.IRVINE.

Approved by: TTE

SAGASCO Resources Ltd.

296089

DAILY DRILLING REPORT

DDR 1 - 25

Well Name: KING 1	Total Depth: 2223m	Report Number: 25
Permit Number: T/18P	Water Depth: 72.5m	Report Date: 21-Nov-92
Rig Name: OCEAN EPOCH	RT to SB: 94.8m	Days on Location: 25
Contractor: DIAMOND M GENERAL CO.	Last Csg. Size: 9 5/8"	Days Since Spud: 23
Area: BASS STRAIT	Shoe Depth: 1237m	Progress Last 24hrs: P & A

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date: 21-Nov-92
0:00	1:30	1.5	POOH W/ SFT.	
1:30	2:30	1.0	M/UP VSP.	
2:30	12:00	9.5	RIH W/ VSP, UNABLE TO PASS 1902m, LOG UP FRM 1902m.	
12:00	12:30	0.5	R/DWN HLS.	
12:30	17:00	4.5	P/UP 12 JTS 2 3/8" TUBING, RIH TO 2085m.	
17:00	17:30	0.5	CIRC DP CAP.	
17:30	18:00	0.5	R/UP CMT LINES & TEST TO 2000PSI, OK. MIX & PUMP 80 sx CMT, CLASS 'G' NEAT, 15.8ppg.	
			DISPLACE W/ 113BBL MUD. CMT PLUG #1 SET FRM 2085m TO 2015m.	
18:00	18:30	0.5	PULL BACK TO 1914m.	
18:30	19:30	1.0	CIRC BTMS UP, NO CMT RETURNS.	
19:30	21:00	1.5	POOH TO SHOE.	
TOTAL		24.0	(CONTINUED NEXT PAGE)	

From	To	Hours	06:00hr Update	Date: 22-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	PULL BACK TO 1470m & SET CMT PLUG #2 FRM 1470m TO 1400m, 80 sx CLASS 'G' NEAT, 15.8ppg. PULL BACK TO 1300m. CIRC CLEAN. L/DWN EXCESS DP.		2 3/8" tubing	113.38	12

Program next 24 Hours: SET CMT PLUG #3 & CUT CSG. P & A.

Operation	Hours	Cum.	Mud properties				
Rig move			Mud type		Freshwater/ID BOND	Time	
Anchor handling		37.5	Mud wt. SG /ppg	1.15	9.58	Vis (sec/l)	
P/U-L/D BHA		33.0	PV / YP			pH	
Drilling		138.0	Gels 10s / 10m			Solids %	
Reaming		11.0	API WL / HTHP			Oil %	
Circ. & cond.	1.5	27.0	Cake 32nd			Water %	
Trips	8.5	118.0	Pf / Mf			Sand %	
Survey		7.5	Cl / KCl			MBT ppg	
Electric logging	12.5	72.5	Ca / Nitrate				
						Total	113.38

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Cementing	0.5	6.0				SMITH						
N/U test BOP		49.0										
Rig main/repair		8.5										
Coring		11.5	Pumps	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Jet	Nozzle Size	WOB (KIPS)	RFM	Surveys
Weather		26.5	No									Depth (m) Deg.
DST												
P & A												
Other:	1.0	10.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2			
			DPxCH	DPxCH	DPxCsg	Riser	(Psi)					Personnel on Rig
Total	24.0	591.5					No Stks					DMG 47

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	ROUGH	Personnel on Rig
Maximum (KIPS)									Wind spd \ gust	25\50	SAGASCO 6
Average (KIPS)	175	185	195	195	190	165	160	170	Wind direction	NW	GEODATA 4
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:			0	Wave HGT \ sec	2	Wave HGT \ sec	2	SUBSEA 3
Location/ETA @	B/B @ 10:00	RIG	Pax on:	Pax off:			Swell HGT \ sec	2	Swell direction	NW	HCS 1
Comments:									Visibility (KM)	10	IDF 1
									Heave	1.0	SSL 2
NOPE No. 203 6003	Daily Cost: \$211,851								Pitch \ Roll	3\3.5	AUSTOIL 1
Approved A\$7,525,200	Cumulative Cost: \$5,470,073								Temp. deg C.	15	
Report prepared by: A. CHAPMAN / S. IRVINE	Approved by: TTE								Rig heading	262	Total 70

SAGASCO Resources Ltd.

296091

DAILY DRILLING REPORT

DDR 1 - 26

Well Name: KING 1	Total Depth: 2223m	Report Number: 26
Permit Number: T/18P	Water Depth: 72.5m	Report Date: 22-Nov-92
Rig Name: OCEAN EPOCH	RT to SB: 94.8m	Days on Location: 26
Contractor: DIAMOND M GENERAL CO.	Last Csg. Size: 9 5/8"	Days Since Spud: 24
Area: BASS STRAIT	Shoe Depth: 1237m	Progress Last 24hrs: PBTD 1207m

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date: 22-Nov-92
0:00	0:30	0.5	PULL BACK TO 1470m. BRK CIRC, TEST CMT LINES TO 2000PSI.	
0:30	1:00	0.5	SET CMT PLUG #2 FRM 1470m TO 1400m, 80 sx CLASS 'G' NEAT, 15.8ppg.	
1:00	2:30	1.5	POOH TO 1295m & CIRC OUT, NO CMT RETURNS.	
2:30	3:30	1.0	POOH 20 STDS.	
3:30	5:30	2.0	LAY DOWN DP.	
5:30	8:00	2.5	RIH TAG CMT PLUG #2 @ 1381m W/ 5K LBS, PULL TO 1267m, CIRC.	
8:00	9:00	1.0	R/UP & TEST CMT LINES TO 2000PSI, SET CMT PLUG #3 FRM 1267m TO 1207m, 104 SX 'G', 15.8PPG.	
9:00	10:00	1.0	POOH TO 1172m, CIRC.	
10:00	11:00	1.0	POOH.	
11:00	12:30	1.5	LAY DOWN 2 3/8" TUBING.	
12:30	24:00	11.5	RIH 8.5" BHA, TEST CSG TO 3000PSI, L/DWN DC, M/UP CSG CUTTER & STD IN DERRICK. L/DWN DP,	
TOTAL		24.0	HWDP & CORE BBL, RETRIEVE WEAR BUSHING.	

From	To	Hours	06:00hr Update	Date: 23-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	CONT L/DWN DP, RIH W/ 9 5/8" CSG CUTTER, CUT CSG @ 144m.				
			RETRIEVE CSG, MAX PULL 65,000 LBS, POOH.				
			L/DWN 9 5/8" CSG.				

Program next 24 Hours: SET BRIDGE PLUG, CUT & RETRIEVE WELLHEADS & GUIDE BASES.

Operation	Hours	Cum.	Mud properties				Time	Total	0.00
Rig move			Mud type						
Anchor handling		37.5	Mud wt. SG /ppg	0.00	Vis (sec/l)				
P/U-L/D BHA		33.0	PV / YP		pH				
Drilling		138.0	Gels 10s / 10m		Solids %				
Reaming		11.0	API WL / HTHP		Oil %				
Circ. & cond.		27.0	Cake 32nd		Water %				
Trips		118.0	Pf / Mf		Sand %				
Survey		7.5	Cl / KCl		MBT ppg				
Electric logging		72.5	Ca / Nitrate						

Casing	Hours	35.5	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks	
Cementing		6.0				SMITH							
N/U test BOP		49.0											
Rig main/repair		8.5											
Coring		11.5	Pumps No	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Jet	Nozzle Size	WCB (KIPS)	RFM	Surveys	
Weather		26.5										Depth (m) Deg.	
DST													
P & A		24.0	24.0										
Other:		10.0	Annular velocity (m/min)				SFR (Psi)	Pump No 1	Pump No 2				
Total		24.0	615.5				No Stks						

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	FINE	Personnel on Rig	
Maximum (KIPS)									Wind spd \ gust	15	DMG	48
Average (KIPS)	180	195	190	195	185	160	165	175	Wind direction	WNW	SAGASCO	2
Workboats	Terje Viking		Ragna Viking		Helicopter flights to rig:			1	Wave HGT \ sec	1	GEODATA	4
Location/ETA @	BELL BAY		RIG		Pax on:	5	Pax off:	11	Wave HGT \ sec	2	HLS	4
Comments:									Swell HGT \ sec	2	SUBSEA	3
									Swell direction	W	HCS	1
									Visibility (KM)	14	IDF	1
									Heave	1.0	AUSTOIL	1
									Pitch \ Roll	3 \ 4		
Temp. deg C.	15											
Report prepared by: A. CHAPMAN / S. IRVINE	Daily Cost: \$140,216				Cumulative Cost: \$5,610,289				Rig heading	262	Total	64

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 26

Well name: King 1

Report no: 26

Date: 22-Nov-92

From	To	Hours	Continue Description of Operating Activity	Date: 22-Nov-92

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	2600		MT	
Bentonite (sacks)	932		900	
Cement (sacks)	1293		1719	
Pot water (tonne)	80.15		219	
Drill water (tonne)	810.21		510	
Fuel (tonne)	375.8		167	
Jet A1 (litres)	818			
Fuel used last 24hrs.	5.41	1	3	Daily fuel cost: \$2,861

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0	Cum cost:	\$98,964	Daily cost:	\$0	

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement	94lb	324	10.66	3454	
Chemicals:				0	
				0	
				0	
				0	Daily cost: \$3,454

Tools & consumables Description	Serial No	Rental/ day	Purchase price	Comments
Travel			600	
Catering			600	
Wharf			200	
Helicopter			2064	
Specialty services			850	
Production equipment			3500	
				Daily cost: \$7,814

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 27

Well Name:	KING 1	Total Depth:	2223m	Report Number:	27
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	23-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	27
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9.625"	Days Since Spud:	25
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	P&A

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	23-Nov-92
0:00	1:30	1.5	LAY OUT HWDP&CORE BARREL		
1:30	4:30	3.0	RIH & CUT 9 5/8" CSG @140M.MONITER TRIP TANK.POOH.		
4:30	6:30	2.0	M/U 9 5/8" CSG SPEAR,RIH,PULL & L/O 9 5/8" CSG.		
6:30	9:30	3.0	RUN & SET 13 3/8" BRIDGE PLUG @ 130M.		
9:30	10:00	0.5	TEST CMT LINES TO 2000 PSI.SET CMT PLUG FROM 130 TO 110M -15.8 PPG-48 SX CLASS G.		
10:00	11:00	1.0	P.OOH TO 105M REV CIRC & DISPLACE TO SW. TEST CSG TO 1000 PSI.		
11:00	20:00	9.0	NIPPLE DOWN DIVERTOR & L/O.NIPPLE DOWN SLIP JT & L/O.RETRIEVE RISER & BOP.BOP ON BEAMS @ 18:00 HRS.UNLATCH LMRP & MOVE STACK TO TEST STUMP.		
20:00	24:00	4.0	M/U 13 3/8" CSG CUTTING ASSY. RIH . JUMP ROV TO OBSERVE CUTTER ENTER WELL HEAD.		

TOTAL 24.0

From	To	Hours	06:00hr Update	Date:	BHA #:	Length (m)	Qty
0:00	6:00	6.0	CUT 13 3/8" CSG. POOH & CHANGE KNIVES.RIH & CUT 30"				
			CSG. ATTEMPT TO PULL,NO SUCESS.				

Program next 24 Hours: RETRIEVE W/HEAD & GUIDE BASES. PULL ANCHORS.

Operation	Hours	Cum.	Mud properties										
Rig move			Mud type	Time									
Anchor handling		37.5	Mud wt. SG /ppg	0.00	Vis (sec/l)								
P/U-L/D BHA		33.0	PV / YP		pH								
Drilling		138.0	Gels 10s / 10m		Solids %								
Reaming		11.0	API WL / HTHP		Oil %								
Circ. & cond.		27.0	Cake 32nd		Water %								
Trips		118.0	Pf / Mf		Sand %								
Survey		7.5	Cl / KCl		MBT ppg								
Electric logging		72.5	Ca / Nitrate							Total	0.00		

Casing	cementing	N/U test BOP	Rig main/repair	Coring	Weather	DST	P & A	Other:	Total	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks
		49.0	8.5	11.5	26.5		24.0	10.0	639.5											

Annular velocity (m/min)										SPR	Pump No 1	Pump No 2	Personnel on Rig		
DPxOH	DPxOH	DPxCsg	Riser	(Psi)	No Stks										
Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	FINE					
Maximum (KIPS)									Wind spd \ gust	LT.AIR					
Average (KIPS)	180	185	195	195	185	160	160	170	Wind direction	NW					
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	2	Wave HGT \ sec	0	HCS								
Location/ETA @	BELL BAY	STDBY	Pax on:	16	Pax off:	14	Swell HGT \ sec	1M	IDF						
Comments:										Swell direction	NW	VETCO			
										Visibility (KM)	15	AUSTOIL			
										Heave	0.6				
										Pitch \ Roll	.4/4				
										Temp. deg C.	15				
										Rig heading	282	Total	66		

NOPE No. 203 6003 Dally Cost: \$136,110
 Approved A\$7,525,200 Cumulative Cost: \$5,746,096

Report prepared by: A.CHAPMAN, S.IRVINE, R.KING Approved by: TTE

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 27

Well name: King 1

Report no: 27

Date: 23-Nov-92

From	To	Hours	Continue Description of Operating Activity	Date: 23-Nov-92

Vessel bulk supplies		Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite	(sacks)	2600		0	
Bentonite	(sacks)	932		900	
Cement	(sacks)	1225		1719	
Pot water	(tonne)	75.2		214	
Drill water	(tonne)	796.5		510	
Fuel	(tonne)	370.3		169	
Jet A1	(litres)	3218			
Fuel used last 24hrs.		5.5	1	2	Daily fuel cost: \$2,584

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0					0
				0	Cum cost:				Daily cost: \$0

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement	94 LB	48	10.66	512	
Chemicals:				0	
				0	
				0	
				0	
				0	Daily cost: \$512

Tools & consumables		Serial No	Rental/ day	Purchase price	Comments
WHARF				500	
HELICOPTER				2064	
SPECIALTY SERVICES				850	
PRODEQPT				3500	
					Daily cost: \$0

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 28

Well Name:	KING 1	Total Depth:	2223m	Report Number:	28
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	24-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	28
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9.625"	Days Since Spud:	27
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	P&A

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	24-Nov-92
0:00			M/U 13 3/8" CUTTING ASSY & RIH. CUT 13 3/8" CSG @ 101M..POOH & CHANGE TO 30" KNIVES. RIH & CUT 30" CSG 101M. ATTEMPT TO PULL CSG W/ 350K O/PULL, NO SUCCESS. CONT TO CUT 30" CSG.		
			ATTEMPT TO PULL CSG W/ 500K O/PULL, NO SUCCESS. CONT TO CUT CSG. HI TORQUE. POOH 1 CUTTER		
	13:00	13.0	BLADE MISSING. L/O TOOL.		
13:00			M/U CUTTING ASSY NO 2 & RIH. CUT 20"&30" CSG @ 100M.GOOD INDICATION OF CUT. POOH.		
			M/U 20" SPEAR & RIH. STAB INTO W/HEAD. ENGAGE SPEAR & PULL W/ 60K O/PULL. RETRIEVE		
	24:00	11.0	20"&30" CSG AND PGB & TGB. LAND ON BEAMS & RIG DOWN .L/O REMAINING PIPE.		
			NOTE: PERFORM POST DRILLING SEA BED SURVEY W/ ROV . INSPECT TO 200' RADIUS I FROM WELL NO DEBRIS.		

TOTAL 24.0

From	To	Hours	Date:	25-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00						

Program next 24 Hours: PULL ANCHORS . MOVE RIG.

Operation	Hours	Mud properties					
Rig move		Mud type					Time
Anchor handling	37.5	Mud wt. SG /ppg	0.00	Vis (sec/l)			
P/U-L/D BHA	33.0	PV / YP		pH			
Drilling	138.0	Gels 10s / 10m		Solids %			
Reaming	11.0	API WL / HTHP		Oil %			
Circ. & cond.	27.0	Cake 32nd		Water %			
Trips	118.0	Pf / Mf		Sand %			
Survey	7.5	Cl / KCl		MBT ppg			
Electric logging	72.5	Ca / Nitrate					
						Total	0.00

Operation	Hours	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition	Remarks
Casing	35.5											
Cementing	6.0											
N/U test BOP	49.0											
Rig main/repair	8.5											
Coring	11.5	Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WCB	RFM		Surveys	
Weather	26.5	No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)			Depth (m)	Deg.
DST												
P & A	24.0	72.0										
Other:	10.0											

Total	24.0	663.5	Annular velocity (m/min)						SFR	Pump No 1	Pump No 2	Personnel on Rig		
			DOOH	DPxOH	DPxCsg	Riser	(Psi)					DMG	48	
							No Stks					SAGASCO	5	
Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather			GEODATA	4	
Maximum (KIPS)									Wind spd \ gust	24		SUB SEA	3	
Average (KIPS)									Wind direction	WNW		HCS	1	
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:					1	Wave HGT \ sec	.5M		IDF	1	
Location/ETA @	ONLCN	ONLCN	Pax on:	8	Pax off:	2	Swell HGT \ sec	1.6M			Swell direction	WNW	VETCO	1
Comments:										Visibility (KM)	14	AUSTOIL	1	
										Heave	.6M	RACAL	2	
										Pitch \ Roll	3/1	BHP	1	
										Temp. deg C.	14	T/WATER	3	
										Rig heading	282	Total	70	

NOPE No. 203 6003 Daily Cost: \$142,232
 Approved A\$7,525,200 Cumulative Cost: \$5,888,328

Report prepared by: A.CHAPMAN, S.IRVINE, R.KING Approved by: TTE

296096

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 28

Well name: King 1

Report no: 28

Date: 24-Nov-92

From	To	Hours	Continue Description of Operating Activity	Date: 24-Nov-92

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	2600	1288	0	
Bentonite (sacks)	932	940	900	
Cement (sacks)	1225	0	1719	
Pot water (tonne)	75.2	250	209	
Drill water (tonne)	770.7	500	510	
Fuel (tonne)	838.4	248.3	164.1	
Jet A1 (litres)	3218			
Fuel used last 24hrs.	6.86	3.14	4.9	Daily fuel cost: \$4,530

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0					0
				Cum cost:	Daily cost:				\$0

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement				0	
Chemicals:				0	
				0	
				0	
				Daily cost:	\$0

Tools & consumables Description	Serial No	Rental/ day	Purchase price	Comments	
WHARF					
HELICOPTER			2064		
SPECIALTY SERVICES			850		
PROD EQPT RENTAL			3500		
ROAD FREIGHT			5000		
				Daily cost:	\$11,414

SAGASCO Resources Ltd.

296097

DAILY DRILLING REPORT

DDR 1 - 29

Well Name:	KING 1	Total Depth:	2223m	Report Number:	29
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	25-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	29
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8"	Days Since Spud:	27
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	P&A

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	25-Nov-92
0:00	1:30	1.5	COMPLETE DEBALLAST RIG, CHECK TANKS.		
1:30	8:00	6.5	PULL & BOLSTER ANCHORS #8 @ 03:30, #1 @ 07:00, #4 @ 07:15.		
8:00	24:00	16.0	WAITING ON WEATHER, WIND SPEED 36 KNOTS INCREASING TO 40 KNOTS @ 24:00 HRS, SEAS 3.5m. GENERAL RIG MAINTENANCE.		
TOTAL		24.0			

From	To	Hours	06:00hr Update	Date:	26-Nov-92	BHA #:	Length (m)	Qty
0:00	6:00	6.0	WOW.					

Program next 24 Hours: PULL ANCHORS & MOVE TO FLINDERS 1.

Operation	Hours	Cum.	Mud properties				Time						
Rig move			Mud type										
Anchor handling	8.0	45.5	Mud wt. SG /ppg				0.00	Vis (sec/l)					
P/U-L/D BHA		33.0	PV / YP					pH					
Drilling		138.0	Gels 10s / 10m					Solids %					
Reaming		11.0	API WL / HTHP					Oil %					
Circ. & cond.		27.0	Cake 32nd					Water %					
Trips		118.0	Pf / Mf					Sand %					
Survey		7.5	Cl / KCl					MBT ppg					
Electric logging		72.5	Ca / Nitrate										
											Total	0.00	

Casing	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Cementing	6.0	6.0				SMITH						
N/U test BOP	49.0	49.0										
Rig main/repair	8.5	8.5										
Coring	11.5	11.5	Pumps	Liner size	SPM (comb)	Press. (PSI)	Output GPM	Bit Nozzle Jet Size	WCB (KIPS)	RFM	Surveys	
Weather	16.0	42.5	No								Depth (m)	Deg.
DST												
P & A	72.0	72.0										
Other:	10.0	10.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2			
			DOCH	DPxCH	DPxCsg	Riser	(Psi)					
Total	24.0	687.5					No Stks					Personnel on Rig

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	RAINROUGH	SAGASCO	2	
Maximum (KIPS)									Wind spd \ gust	35\40	GEODATA	4	
Average (KIPS)									Wind direction	W	SUB SEA	3	
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	1					Wave HGT \ sec	3	HCS	1	
Location/ETA @	RIG	RIG	Pax on:	8	Pax off:	11			Swell HGT \ sec	3.5\10	IDF	1	
Comments: 3 ANCHORS RACKED & 5 ANCHORS STILL OUT.										Swell direction	W	VETCO	1
										Visibility (KM)	14	AUSTOIL	1
										Heave	1.0	RACAL	2
										Pitch \ Roll	2.5\3.5	BHP	1
										Temp. deg C.	13	T/WATER	3
										Rig heading	262	Total	67

NOPE No. 203 6003	Daily Cost:	\$146,566
Approved A\$7,525,200	Cumulative Cost:	\$6,034,894
Report prepared by: A. CHAPMAN / S. IRVINE	Approved by: TTE	

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

Well name: King 1

Report no: 29

Date: 25-Nov-92

From	To	Hours	Continue Description of Operating Activity	Date: 25-Nov-92

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	2800	1288	MT	
Bentonite (sacks)	932	940	900	
Cement (sacks)	1225	MT	1719	
Pot water (tonne)	75.22	245	204	
Drill water (tonne)	701.32	500	510	
Fuel (tonne)	358.12	240.04	159	
Jet A1 (litres)	3218			
Fuel used last 24hrs.	5.28	8.25	5.1	Daily fuel cost: \$5,664

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0					0
				Cum cost:				Daily cost:	\$0

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement				0	
Chemicals:				0	
				0	
				0	
				0	
				Daily cost:	\$0

Tools & consumables Description	Serial No	Rental/ day	Purchase price	Comments
Travel			2500	
Catering			200	
Wharf			200	
Helicopters			2064	
Freight, Rd & Air			5500	
Specialty services			850	
Production equip.		3500		
				Daily cost: \$14,814

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 30

Well name: King 1

Report no: 30

Date: 26-Nov-92

From	To	Hours	Continue Description of Operating Activity	Date: 26-Nov-92

Vessel bulk supplies	Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite (sacks)	2600	1288	MT	
Bentonite (sacks)	932	940	900	
Cement (sacks)	1225	MT	1719	
Pot water (tonne)	75.22	240	199	
Drill water (tonne)	681.44	500	510	
Fuel (tonne)	353.76	233.15	154	
Jet A1 (litres)	3218			
Fuel used last 24hrs.	4.36	6.88	5	Daily fuel cost: \$4,937

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0	Cum cost:			Daily cost:	\$0

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement				0	
Chemicals:				0	
				0	
				0	
				0	
				0	Daily cost: \$0

Tools & consumables Description	Serial No	Rental/ day	Purchase price	Comments
Travel & Accom			650	
Communications			2000	
Wharf			100	
Helicopters			2064	
Import customs fees			1000	
Specialty services		850		
Production equip.		3500		
Insurance - other			70000	
Planning			60000	
				Daily cost: \$140,164

SAGASCO Resources Ltd.

DAILY DRILLING REPORT

DDR 1 - 31

Well Name:	KING 1	Total Depth:	2223m	Report Number:	31
Permit Number:	T/18P	Water Depth:	72.5m	Report Date:	27-Nov-92
Rig Name:	OCEAN EPOCH	RT to SB:	94.8m	Days on Location:	31
Contractor:	DIAMOND M GENERAL CO.	Last Csg. Size:	9 5/8"	Days Since Spud:	29
Area:	BASS STRAIT	Shoe Depth:	1237m	Progress Last 24hrs:	P&A

RIG POSITION: Latitude: 39deg. 35min. 24.44sec. South Longitude: 145deg. 31min. 8.8sec. East

From	To	Hours	Description of Operating Activity - 00:00 to 24:00Hrs	Date:	27-Nov-92
0:00	10:00	10.0	WAIT ON WEATHER, WIND SPEED DROP TO 15 KNOTS, SWELL 1.5m.		
10:00	17:30	7.5	PULL ANCHORS: #5 ON BOLSTER @ 11:00HRS. TERJE VIKING ON TOW LINE @ 12:36HRS.		
			#7 " " @ 12:45.		
			#3 " " @ 14:40.		
			#2 " " @ 16:20.		
			#6 " " @ 17:30.		
			OCEAN EPOCH ON TOW TO FLINDERS 1 LOCATION @ 17:30HRS, 27/11/92.		
			FINAL REPORT FOR KING 1		

TOTAL 17.5

From	To	Hours	06:00hr Update	Date:	BHA #:	Length (m)	Qty

Program next 24 Hours:

Operation	Hours	Cum.	Mud properties				Time	Total	0.00
Rig move			Mud type						
Anchor handling	7.5	53.0	Mud wt. SG /ppg	0.00	Vis (sec/l)				
P/U-L/D BHA		33.0	PV / YP		pH				
Drilling		138.0	Gels 10s / 10m		Solids %				
Reaming		11.0	API WL / HTHP		Oil %				
Circ. & cond.		27.0	Cake 32nd		Water %				
Trips		118.0	Pf / Mf		Sand %				
Survey		7.5	Cl / KCl		MBT ppg				
Electric logging		72.5	Ca / Nitrate						

Operation	Hours	Cum.	Bit No.	Run No.	Size	Type	Serial No.	Depth Out	Metres Drilled	Hours	Rate (M/Hr)	Condition Remarks
Casing		35.5										
Cementing		6.0				SMITH						
N/U test BOP		49.0										
Rig main/repair		8.5										
Coring		11.5	Pumps	Liner	SPM	Press.	Output	Bit Nozzle	WCB	FFM		Surveys
Weather	10.0	76.5	No	size	(comb)	(PSI)	GPM	Jet Size	(KIPS)			Depth (m) Deg.
DST												
P & A		72.0										
Other:		10.0	Annular velocity (m/min)				SPR	Pump No 1	Pump No 2			
			DC/GH	DP/GH	DPxGag	Riser	(Psi)					Personnel on Rig
Total	17.5	729.0					No Stks					DMG 50

Anchor Tension	No 1	No 2	No 3	No 4	No 5	No 6	No 7	No 8	Weather	Personnel on Rig
Maximum (KIPS)									Wind spd \ gust	SAGASCO 2
Average (KIPS)									Wind direction	GEODATA 4
Workboats	Terje Viking	Ragna Viking	Helicopter flights to rig:	1					Wave HGT \ sec	SUB SEA 3
Location/ETA @	ONTOW	STD BY W/ RIG	Pax on:	9	Pax off:	8			Swell HGT \ sec	HCS 1

Comments: KING 1 TOTAL TIME: 30 DAYS 9 HOURS.

NOPE No. 203 6003	Daily Cost: \$107,113	Pltch \ Roll	BHP 1
Approved A\$7,525,200	Cumulative Cost: \$6,412,496	Temp. deg C.	T/WATER 3
Report prepared by: J. LAMBERT / S. IRVINE	Approved by: TTE	Rig heading	Total 70

SAGASCO Resources Ltd.
MATERIALS & EQUIPMENT CONSUMPTION

DDR 2 - 31

Well name: King 1

Report no: 31

Date: 27-Nov-92

From	To	Hours	Continue Description of Operating Activity	Date: 27-Nov-92

Vessel bulk supplies		Ocean Epoch	Terje Viking	Ragna Viking	Comments
Barite	(sacks)	2600	1266	MT	Statement of Facts taken @ 17:30hrs, Fuel figures up to 17:30 hrs.
Bentonite	(sacks)	932	940	900	
Cement	(sacks)	1225	MT	1719	
Pot water	(tonne)	75.22	237	195	
Drill water	(tonne)	681.44	500	510	
Fuel	(tonne)	350.59	227.2	149.77	
Jet A1	(litres)	3218			
Fuel used last 24hrs.		3.17	5.95	4.23	Daily fuel cost: \$4,058

Mud Description	Size Pkg	Qty Used	Unit Price	Cost	Mud Description	Size Pkg	Qty used	Unit price	Cost
				0					0
				0					0
				0					0
				0					0
				0					0
				0	Cum cost:	\$98,964	Daily cost:	\$0	

Cement Description	Size Pkg	Qty Used	Unit Price	Cost	Comments
Cement				0	
Chemicals:				0	
				0	
				0	
				0	
				0	Daily cost: \$0

Tools & consumables Description	Serial No	Rental/ day	Purchase price	Comments
Helicopter			2064	
Specialty services			850	
Production test equip		3500		
			Daily cost:	\$6,414

3 CORE DATA

3.1 **Field Descriptions**

KING # 1

Core #1 1397 - 1402m Eastern View Coal Measures. Cut 5m, recovered 3.5m (70%)

Note: Core recovered in fiber glass sleeve.

1397m Sandstone with siltstone, laminated and bioturbated.

Sandstone: light brown, very fine to silt sized grains, well sorted, subangular, weak siliceous cement, trace to common interstitial clay, common mica and altered feldspars, friable, poor-fair porosity. Show: 70-80% dull patchy yellow white fluorescence, instant strong milky white cut, thin light brown residue ring.

Siltstone: light brown, dark grey, light to dark brown grey, argillaceous, micromicaceous, non calcareous, common disseminated coarse conglomeratic quartz grains, firm. Show: nil to 80% dull patchy fluorescence as above.

1398m Siltstone, as above.

1399m Sandstone: light brown to off white, very fine, very well sorted, subround to round, subspherical, weak siliceous cement, trace interstitial clay. Common mica, trace feldspar and lithic grains, friable, good porosity. Show: 100% dull to dim pale yellow to straw uniform fluorescence, instant to slow streaming to blooming milky white cut, thin to moderate pale brown residue film.

1399.5m Sandstone: light brown to off white, as for 1399m. Show: 100% dull to dim pale yellow to straw uniform fluorescence as for 1399m.

1400.5m Siltstone: Predominantly light brown and argillaceous, as for 1397m. Show 20% bright yellow - yellow white fluorescence, slow milky blooming cut, thin colourless residue.

1400.5-
1402m No recovery.



CORE DESCRIPTION

SCALE 1:25

PAGE 1 OF 1

WELL : King #1

CORED INTERVAL : 1397-1402 CUT : 5 m

CORE No: #1

RECOVERY : 3.5 m 70 %

FORMATION : E.V.C.M.

GEOLOGIST : JONATHAN REEVE

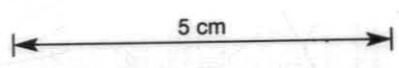
CORING RATE 9 5 21 30	DEPTH (m)	LITHOLOGY	BEDDING / SEDIMENTARY STRUCTURES	DESCRIPTION (LITHOLOGY, GRAIN SIZE, POROSITY, SHOWS, ETC.)
	1397	.....	⊕	SANDSTONE WITH SILTSTONE, LAMINATED & BIOTURBATED. SANDSTONE: LIGHT BROWN, VERY FINE TO SILT SIZED GRAINS, WELL SORTED, SUBANGULAR, WEAK SILICEOUS CEMENT, TRACE TO COMMON INTERSTITIAL CLAY, COMMON MICA, & ALTERED FELDSPARS, FRIABLE, POOR-FAIR POROSITY, 70-80% DULL PATCHY YELLOW WHITE FLUORESCENCE, INSTANT STRONG MILKY WHITE CUT, THIN LIGHT BROWN RESIDUE RINGS.
	1398	.....	====	SILTSTONE: LIGHT BROWN, DARK GREY, LT TO DARK BROWNISH GREY, ARGILLACEOUS, MICRO-MICACEOUS, NON CALCAREOUS, COMMON DISSIMINATED COARSE-CONGLOMERATE QZ GRAINS. FIRM, NIL TO 80% DULL PATCHY FLUOR AS ABOVE.
	1399	.....	====	SANDSTONE: LIGHT BROWN TO OFF WHITE, VERY FINE, VERY WELL SORTED, SUBROUND TO ROUND, SUB SPHERICAL, WEAK SILICEOUS CEMENT, TRACE INTERSTITIAL CLAY, COMMON MICA, TRACE FELDSPAR & LITHIC GRAINS, FRIABLE, GOOD POROSITY. 100% DULL TO DIM PALE YELLOW TO STRAW UNIFORM FLUORESCENCE, INSTANT TO SHOW STREAMING TO BLOOMING MILKY WHITE CUT, THIN TO MODERATE PALE BROWN RESIDUE FILM.
	1400	.....	====	SANDSTONE: AS ABOVE, PREDOMINANTLY LIGHT BROWN & ARGILLACEOUS, 20% BRIGHT YELLOW-YELLOW WHITE STREAKY FLUORESCENCE, SHOW MILKY BLOOMING CUT, THIN COARSE RESIDUE.
	1401	X	N R	
	1402	X	N R	
	140			



KEY

⊕ BIOTURBATED

==== WELL DEVELOPED THIN BEDDING.



MRC9212004-ACM

KING #1

Core #2 1402-1410.5m Cut 8.5m, recovered 5.7m (67%).
Note: Core recovered in glass fiber sleeve.

1402-1407.7m	3-28 min/m	Siltstone with interbedded Sandstone.
1402m		Siltstone: grey to brown grey very argillaceous, micromicaceous, non calcareous, firm subfissile. No show.
1403m		Siltstone: As above with no show.
1404m		Siltstone: As above with very fine sandy microlaminations, trace pyrite, no shows.
1405m		Sandstone: very light grey, off white, brownish in part, very fine to silt grained, well sorted, subround to round, moderate to good sphericity, trace cement, trace interstitial clay, trace feldspar with lithic grains, friable, good porosity. <u>Show:</u> 80% patchy dull yellow fluorescence, instant to slow blooming milky white cut, thin colourless residue film, with petroleum odour.
1406m		Siltstone: grey brownish grey, argillaceous, micromicaceous, trace pyrite nodules, scattered very coarse quartz grains, trace carbonaceous specks, laminated. No show.
1406.8m		Sandstone: off white, very fine grained, subround to round, good sphericity, very well sorted, trace to nil cement, trace interstitial clay, generally clean, friable, good porosity. <u>Show:</u> strong petroliferous odour, 100% very dull uniform yellow fluorescence, instant slow blooming moderate bright milky cut fluorescence, thin colourless film residue.
1407.7m		Siltstone: grey/brown grey, non calcareous, micromicaceous, firm. No show. Gas: BG 1 unit C ₁ 96% C ₂ 4%
1410.5-1423.5	1.5-19 min/m	Argillaceous Siltstone with interbedded sandstone. Siltstone: 60% as above, very argillaceous. No show. Sandstone: 40% colourless, occasionally stained orange, transparent occasionally translucent, very fine to predominantly fine, rounded to angular, mostly subround, well sorted, poor to moderate sphericity trace cement, trace to locally common white clay matrix in aggregates, predominantly clean loose quartz, common to abundant mica (5-10%), good inferred porosity. 10% spotty and pinpoint dull to moderately bright yellow fluorescence, trace milky white cut, trace residue. Gas: BG 1 unit C ₁ 95% C ₂ 4% Peak from 1419 to 1423.5, 2-3 units, C ₁ 73% C ₂ 27%



CORE DESCRIPTION

SCALE 1:25

PAGE 1 OF 2

WELL : KING #1

CORED INTERVAL : 1402-1405 CUT : 8.5 m

CORE No: 2

RECOVERY : 5.7m m 67 %

FORMATION : E.V.C.M.

GEOLOGIST : JONATHAN REEVE

CORING RATE 9 15 21 30	DEPTH (m)	LITHOLOGY	BEDDING / SEDIMENTARY STRUCTURES	DESCRIPTION (LITHOLOGY, GRAIN SIZE, POROSITY, SHOWS, ETC.)
	1402	.....		1402m SILTSTONE: GREY TO BROWN GREY, VERY ARGILLACEOUS, MICRO MICACEOUS, NOT CALCAREOUS, FIRM SUBFISSILE, NO SHOW.
	1403	.....		1403m SILTSTONE: AS ABOVE WITH NO SHOW
	1404	.....		1404m SILTSTONE: AS ABOVE WITH VERY FINE SANDY MICROLAMINATIONS, TRACE PYRITE, NO SHOWS.
	1405	.....		1405m SANDSTONE: VERY LIGHT GREY, OFF WHITE, BROWNISH IN PART, VERY FINE TO SILT GRAINED WELL SORTED, SUBROUND TO ROUND, MODERATE TO GOOD SPHERICITY, TRACE CEMENT, TRACE INTERSTITIAL CLAY, TRACE FELDSPAR & LITHIC GRAINS, FRIABLE, GOOD POROSITY, 80% PATCHY DULL YELLOW FLUOR, INSTANT TO SLOW BLOOMING MILKY WHITE CUT, THIN COLORLESS RESIDUE FILM, WEAK PETROLEUM ODOUR.
	1406	.....		1406m SILTSTONE: GREY-BROWNISH GREY, ARGILLACEOUS, MICROMICACEOUS, TRACE PYRITE NODULES, SCATTERED VERY COARSE QUARTZ GRAINS, TRACE CARBONACEOUS SPECKS, LAMINATED NO SHOWS.
	1407	.....	

5 cm



CORE DESCRIPTION

SCALE 1: 25

PAGE 2 OF 2

WELL : KING #1

CORED INTERVAL : 1402-1410.5 CUT : 85 m

CORE No: 2

RECOVERY : 5.7m m 67 %

FORMATION : E.V.C.M

GEOLOGIST : JONATHAN REEVE

CORING RATE 9 15 21 30	DEPTH (m)	LITHOLOGY	BEDDING / SEDIMENTARY STRUCTURES	DESCRIPTION (LITHOLOGY, GRAIN SIZE, POROSITY, SHOWS, ETC.)
	1407	.....		1406.8m SANDSTONE: OFF WHITE, VERY FINE GRAINED, SUBROUND TO ROUND, GOOD SPHERICITY, VERY WELL SORTED, TRACE TO NIX CEMENT, TRACE INTERSTITIAL CARB, GENERALLY CLEAN, FRIABLE, GOOD POROSITY, STRONG PETROLIFEROUS ODOUR, 100% VERY DULL UNIFORM YELLOW YELLOW FLUOR, INSTANT - SLOW BLOOMING MODERATE BRIGHT MILKY CUT FLUORESCENCE, THIN COLOURLESS FILM RESIDUE
	1408			1407.7m SILTSTONE: GREY - BROWN GREY, NON CALCAREOUS, MICRONICACEOUS, FIRM, LAMINATED, NO SHOW.
	1409	N R	N R	
	1410			
	1411			

5 cm

KING #1

Core #3 1423.5-1434.0m Eastern View Coal Measures. Cut 10.5m recovered 9.4m (89%).

Note: Core recovered in fiber glass sleeve.

- 1423.5m Sandstone with dark brown laminations and ripple marks. Sandstone: light grey to off white, very fine grained, very well sorted, subround to round, good sphericity, common mica, trace black carbonaceous? grains, predominantly unconsolidated quartz, trace interstitial white clay, poor visual porosity. No show. Dark brown laminations appear to be zones rich in carbonaceous matter.
- 1424.5m Sandstones with dark brown carbonaceous rich microlaminations. Sandstone: as above with trace altered feldspars. No show.
- 1425.5m Sandstone with laminations as above. No show.
- 1426.5m Massive sandstone, off white, very fine to fine grained, subround, well sorted, trace siliceous cement, common interstitial white clay, trace mica, common weathered feldspars, common scattered black carbonaceous? specks, friable to firm, poor to fair visual porosity. No show.
- 1427.5m Massive sandstone as above. No shows.
- 1428.5m Massive sandstone as above with poor porosity. No shows.
- 1429.5m Siltstone: off white, friable, well sorted, common interstitial clay, sandy and grading to silty very fine sandstone. Trace mica and altered feldspars. Laminated with no porosity. No shows.
- 1430.5m Sandstone: off white to light grey, very fine grained to silt, very well sorted, subround, trace siliceous cement, common interstitial white clay, traces mica and altered feldspars, traces of bioturbation and abundant carbonaceous rich wispy micro laminations, no porosity. No shows.
- 1431.5m Sandstone: off white to light grey, very fine grained, well sorted, subround, sub spherical, trace siliceous cement, moderate interstitial clay, common mica, common carbonaceous rich wispy micro laminations, trace altered feldspars, trace bioturbation, no porosity, friable. No shows.
- 1432.0m Sandstone: off white to light grey, very fine to fine grained, well sorted subround, subspherical to spherical grain supported with interstitial clay, trace mica, feldspars and black grains as above, no porosity. No shows.
- 1432.4m Sandstone: light brown, coarse grained, subangular to angular well sorted, very weak siliceous cement in part, generally nil cement and grain supported, very friable clean quartz. Trace grey lithic and cherty grains, good to excellent porosity. Show: 70%-100% moderately bright pale yellow uniform

MRC9211025-MJR

excellent porosity. Show: 70%-100% moderately bright pale yellow uniform to patchy fluorescence with scattered bright yellow gold spots, instant bright white streaming cut, moderate light brown residue film, strong to moderate petroliferous odour with visible light brown oil. Upon further examination, this sand extended from 1432.1m-1432.7m, all coarse with shows.

1432.9m Sandstone: white, very fine grained subround, well sorted, subspherical with weak traces of siliceous cement, common mica and filtered feldspars. Trace black grains and poor porosity. No shows.



CORE DESCRIPTION

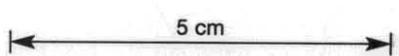
SCALE 1:25

PAGE 1 OF 3

WELL : KING #1
CORE No: CORE #3
FORMATION : EVCN

CORED INTERVAL : 1423.5-1434 CUT : 10.5 m
RECOVERY : 9.4 m 89 %
GEOLOGIST : JONATHAN REEVE

Table with 5 columns: CORING RATE, DEPTH (m), LITHOLOGY, BEDDING / SEDIMENTARY STRUCTURES, and DESCRIPTION. The table contains detailed handwritten descriptions of sandstone layers at various depths (1423.5m to 1427.5m).





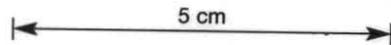
CORE DESCRIPTION

SCALE 1:25

PAGE 2 OF 3

WELL : KING #1 CORED INTERVAL : 1423.5-1434 CUT : 10.5 m
 CORE No: CORE #3 RECOVERY : 9.4 m 89 %
 FORMATION : EVCM GEOLOGIST : JONATHAN REEVE

CORING RATE 9 15 21 30	DEPTH (m)	LITHOLOGY	BEDDING / SEDIMENTARY STRUCTURES	DESCRIPTION (LITHOLOGY, GRAIN SIZE, POROSITY, SHOWS, ETC.)
				1428.5m MASSIVE SANDSTONE AS ABOVE POOR POROSITY, NO SHOWS.
	1429			1429.5m SILTSTONE: OFF WHITE, FRIABLE, WELL SORTED, COMMON INTERSTITIAL CLAY, SANDY GRADING TO SILTY VERY FINE SANDSTONE, TRACE MICA & ALTERED FELDSPARS, LAMINATED, NO POROSITY, NO SHOWS.
	1430			1430.5m SANDSTONE: OFF WHITE TO LIGHT GREY, VERY FINE GRAINED TO SILT, WELL SORTED, SUBROUND, TRACE SILICEOUS CEMENT, COMMON INTERSTITIAL WHITE CLAY, TRACE MICA & ALTERED FELDSPARS, TRACES OF BIOTURBATION AND ABUNDANT CARBONACEOUS RICH WISPY MICRO LAMINATIONS, NO POROSITY, NO SHOWS.
	1431			1431.5m SANDSTONE: OFF WHITE TO LIGHT GREY, VERY FINE GRAINED, WELL SORTED, SUBROUND, SUB SPHERICAL, TRACE SILICEOUS CEMENT, MODERATE INTERSTITIAL CLAY, COMMON MICA, COMMON CARBONACEOUS RICH WISPY MICA LAMINATIONS, TRACE ALTERED FELDSPARS, TRACE BIOTURBATION, NO POROSITY, FRIABLE, NO SHOW.
	1432			1432.0m SANDSTONE: OFF WHITE TO LIGHT GREY, VERY FINE TO FINE GRAINED, WELL SORTED SUBROUND, SUB ROUND SUBSPHERICAL TO SPHERICAL GRAIN SUPPORTED WITH INTERSTITIAL CLAY, TRACE MICA, FELDSPARS & BLACK GRAINS
	1433	NR	NR	AS ABOVE NO POROSITY, NO SHOW.





CORE DESCRIPTION

SCALE 1:25

PAGE 3 OF 3

WELL : KING #1

CORED INTERVAL : 1423.5-1434 CUT : 10.5 m

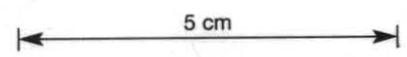
CORE No: CORE #3

RECOVERY : 9.4 m 89 %

FORMATION : EUCM

GEOLOGIST : JONATHAN REEVE

CORING RATE 9 15 21 30	DEPTH (m)	LITHOLOGY	BEDDING / SEDIMENTARY STRUCTURES	DESCRIPTION (LITHOLOGY, GRAIN SIZE, POROSITY, SHOWS, ETC.)
	1434	N R	N R	<p>1432.4 m SANDSTONE: LIGHT BROWN, COARSE GRAINED, SUB ANGULAR TO ANGULAR WELL SORTED, VERY WEAK SILICEOUS CEMENT IN PART, GENERALLY NIL CEMENTED & GRAIN SUPPORTED, VERY FRIABLE CLEAN QUARTZ, TRACE GRAY LITHIC & CHERTY GRAINS, GOOD TO EXCELLENT POROSITY, 70%-100% MODERATELY BRIGHT PALE YELLOW UNIFORM TO PATCHY FLUORESCENCE WITH SCATTERED BRIGHT YELLOW GOLD SPOTS, INSTANT BRIGHT WHITE STREAMING CUT, MODERATE LIGHT BROWN RESIDUE FILM, STRONG TO MODERATE PETROLIC ODOR WITH VISIBLE LIGHT BROWN OIL.</p> <p>UPON FURTHER EXAMINATION THIS SAND EXTENDED FROM 1432.1 m - 1432.7 m ALL COARSE WITH SHOWS.</p>
				<p>1432.9 m SANDSTONE: WHITE, VERY FINE GRAINED, SUBROUND, WELL SORTED SUB SPHERICAL, WEAK TRACES OF SILICEOUS CEMENT COMMON MICA & ALTERED FELD SPARS, TRACE BLACK GRAINS POOR POROSITY, NO SHOWS.</p>



MRC9211025-MJR

KING #1

Core #4 1434-1440m Eastern View Coal Measures. Cut 6m, recovered 5m (83%).

Note: Core recovered in fiber glass sleeves.

1434.1m Siltstone: light brownish grey, abundant argillaceous matrix, carbonaceous specks, micro micaceous, unconsolidated, friable, no porosity. No show.

1435.0m Silty sandstone with interlamination of argillaceous siltstone. Silty sandstone: light grey, very fine grained to silt, well sorted subangular, good sphericity, unconsolidated, abundant brown clay matrix in argillaceous silt laminations, mica, carb specks, trace porosity. No show.

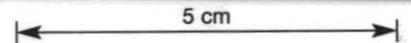
1436.0 Siltstone: light grey, trace mica, trace feldspar and carbonaceous specks, slightly argillaceous in part, unconsolidated poor porosity. No show.

1437.0 Siltstone: as above.

1438.0 Siltstone: very finely laminated with dark brown carbonaceous rich cross micro laminations.
Siltstone: as for 1436m with abundant carbonaceous specks and poor porosity. No show.

1438.3 Siltstone with coal laminations and linear carbonised plant fossils.
Siltstone: as for 1436m with abundant clay, mica and carbonaceous specks and poor porosity. No show.
Coal: black, dull firm, brittle, blocky, even fracture.

1438.3-
1439m Coal. At 1439.0 Coal: very dark brown to black, soft to firm, dull, subblocky, lignite, subbituminous.



CORE DESCRIPTION

SCALE 1:25

PAGE 1 OF 2

WELL : King #1

CORED INTERVAL : 1434 - 1440 CUT : 6 m

CORE No: 4

RECOVERY : 5 in m 83 %

FORMATION : EVCN

GEOLOGIST : JONATHAN REEVE

CORING RATE 9 15 21 30	DEPTH (m)	LITHOLOGY	BEDDING / SEDIMENTARY STRUCTURES	DESCRIPTION (LITHOLOGY, GRAIN SIZE, POROSITY, SHOWS, ETC.)
	1434	.....		1434.1 m SILTSTONE: LIGHT BROWN IN GREY, ABUNDANT ARGILLACEOUS MATRIX, CARBONACEOUS SPECKS, MICRO NAUCLONOUS, UNCONSOLIDATED, FRIABLE, NO POROSITY NO SHOW.
	1435	.....		1435.0 m SILTY SANDSTONE WITH INTERLAMINATIONS OF ARGILLACEOUS SILTSTONE. SILTY SANDSTONE: LIGHT GREY, VERY FINE GRAINED TO SILT, WELL SORTED, SUBANGULAR, GOOD SPHERICITY, UNCONSOLIDATED, ABUNDANT BROWN CHAY MATRIX IN ARGILLACEOUS SILT LAMINATIONS, MICA, CARB SPECKS, TRACE POROSITY, NO SHOW.
	1436	.....		1436.0 SILTSTONE: LIGHT GREY, TRACE MICA, TRACE FELDSPAR & CARBONACEOUS SPECKS, SLIGHTLY ARGILLACEOUS IN PART, UNCONSOLIDATED POOR POROSITY, NO SHOW.
	1437	.....		1437.0 SILTSTONE: AS ABOVE.
	1438	.....		1438.0 SILTSTONE VERY FINELY LAMINATED WITH DARK BROWN CARBONACEOUS RICH CROSS MICRO LAMINATIONS. SILTSTONE: AS ABOVE WITH ABUNDANT CARBONACEOUS SPECKS, POOR POROSITY, NO SHOW.
	1439	.....		1438.3 SILTSTONE WITH COAL LAMINATIONS AND LAMINATED CARBONIZED PLANT FOSSILS. SILTSTONE: AS ABOVE WITH ABUNDANT CHAY, MICA AND CARBONACEOUS SPECKS NO POROSITY, NO SHOW. COAL: BLACK, DUNE FIRM, BRITTLE BLOCKY, EVEN FRACTURE

MRC9211051-ACM

3.2 Laboratory Core & Fluorescence Descriptions



PRELIMINARY SEDIMENTOLOGICAL LOG

KING #1

BASS BASIN

Report prepared for SAGASCO Resources

by

Dr S E Phillips & Mr J Cornish

November 1992

Amdel Core Services Pty Limited shall not be liable or responsible for any loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from any information or interpretation given in this report. In no case shall Amdel Core Services Pty Limited be responsible for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report.

1. INTRODUCTION

SAGASCO Resources requested a preliminary sedimentological and fluorescence log of King #1, from the Bass Basin. At the time of logging the core was frozen and had not been slabbed. Only the outer surface where the drilling mud had been cleaned off the core could be seen. The primary aims of the sedimentological log were to ascertain grain size and lithological variations.

The following core intervals were studied:

Core	Top (m)	Bottom (m)
#1	1397.0	1400.5
#2	1402.0	1407.5
#3	1423.5	1432.9
#4	1434.0	1439.0

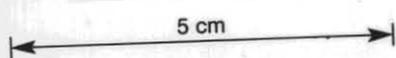
Core was logged at a scale of 1:10 (1m=10cm) and the results are presented below. Grain size was assessed by comparing fragments of core with a grain size comparator under a binocular microscope. Fluorescence log descriptions were undertaken in a darkened shed with fluorescent lighting. To establish the cut, fragments of core were placed in a petri dish and studied in a fluoroscope.

Abbreviations used on the sedimentological and fluorescence logs are listed below:

M	=	mud	Fl	=	fluorescence
S	=	silt	mod	=	moderately
VF	=	very fine sand	grn	=	green
F	=	fine sand			
M	=	medium sand			
C	=	coarse sand			
VC	=	very coarse sand			
G	=	granules			
P	=	poor sorting			
M	=	moderate sorting			
W	=	well sorted			

Lithology Key

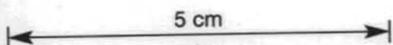
	mudstone		siltstone
	silty mudstone		sandstone
	muddy siltstone		coal



WELL : KING #1

CORE : 1. 296121

DEPTH (m)	LITHOLOGY	GRAIN SIZE							FLUOR. %			SORTING			COMMENTS	Ø	K				
		M	S	V	F	F	M	C	VC	20	40	60	80	100				P	M	W	
1397.0	[Lithology: silty mudstone]																		Bioturbated silty mudstone Fl: Patchy, dull, grn yellow Lamination fl. No Cut		
1397.5	[Lithology: silty mudstone]																		Gradual increase in % of vc to granule size grains (max 10%) extremely poor sorting		
1398.0	[Lithology: silty mudstone]																		vc to granules increase to 15-20%	16.0	2.28
1398.5	[Lithology: sandstone]																		laminated siltstone grades into very fine clean sandstone - weakly cemented Fl: Patchy - solid, mod. dull pale yellow, laminated fl. Slow-streaming - diffuse cut laminated v. fine sandstone	28.4	82.9
1399.0	[Lithology: sandstone]																		Fl: solid, mod. dull, yellow laminated - bedding fl. Mod slow-streaming cut	31.1	102.0
1399.5	[Lithology: sandstone]																		cross bedded v. fl. to silty sandstone	28.1	82.6
1399.5	[Lithology: sandstone]																			29.4	79.1



WELL : KING #1

CORE : 2 296123

DEPTH (m)	LITHOLOGY	GRAIN SIZE										FLUOR. %	SORTING	COMMENTS	Ø	K							
		M	S	V	F	F	M	C	V	C	G												
1403.0													30	40	60	80	100	P	M	W			
1403.5																							
⑦																					15.2	0.70	
1404.0																							
⑧																					13.4	1.70	
1404.5																							
1405.0																							
⑨																					23.9	13.0	
1405.5																							

Carbonate cement

laminated silty mudstone - bioturbated

No fluor.

gradational contact with laminated v. fine sandstone - unconsolidated

indurated - clean sandstone

muddy fine laminated siltstone weakly cemented

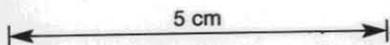
FL: Patchy, solid. Mod. dull grn yellow, laminated fl. Slow, mod. bright, pale yellow cut.

FL: Decreasing depth

rare opaques in siltstone

FL: Patchy, mod dull, yellow laminated fl.

Mod-fast streaming, mod bright, pale yellow cut.



WELL : KING #1

CORE : 3

296125

DEPTH (m)	LITHOLOGY	GRAIN SIZE							FLUOR. %	SORTING	COMMENTS	φ	K
		M	S	VF	F	M	C	VC					
1423.5													
11 →											thin muddy laminae in a v. fine clean sandstone unconsolidated rare mica, opaliferous feldspar	28.2	149.0
1424.0											v. clean sandstone no cement micaceous v.f. to fine grained ? ripple cross laminae		
1424.5											rare carbonaceous material micaceous	31.6	221.0
13 →											No fluor. micaceous carbonaceous material	30.4	184.0
1425.0											laminated siltstone		
14 →											v. fine clean sandstone coal fragments		
1425.5											v. fine sandstone	30.5	238.0
15 →											laminated siltstone		
1426.0											No fluor. laminated mudstone		
											micaceous v. fine sandstone ? weakly cemented	30.7	634.0

5 cm

WELL : KING #1

CORE : 3

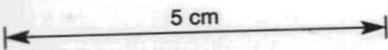
296126

DEPTH (m)	LITHOLOGY	GRAIN SIZE							FLUOR. %	SORTING			COMMENTS	Ø	K
		M	S	V	F	M	C	V		P	M	W			
1426.0													Siltstone with rare sandy interbeds near top		
1426.5													v. fine clean sandstone no cement rare evidence of bedding	30.5	1253.0
1427.0													No fluor.	33.4	674.0
1427.5														31.4	404.0
1428.0													v. fine clean sandstone no cement	32.3	654.0
1428.5														29.9	140.0

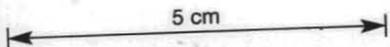
WELL : KING #1

CORE : 3

296128



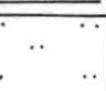
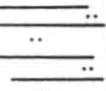
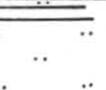
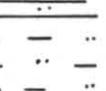
DEPTH (m)	LITHOLOGY	GRAIN SIZE							FLUOR. %			SORTING			COMMENTS	φ	K			
		M	S	V	F	M	C	VC	20	40	60	80	100	P				M	W	
1431.0																		~ 20% v.c. grains in siltstone		
24																		Coal beds above & below a v. fine clean sandstone with minor stringers	19.2	16.8
25																		gradual increase in sand content	19.5	5.0
1431.5																				
26																		fine sandstone rare laminae of medium sand no cement	30.7	357.0
1432.0																				
27																		Fl: Solid, mod bright, grn yellow Instant streaming - blooming mod dull, pale yellow cut.	28.9	917.0
																		Siltstone		
																		v. poorly sorted coarse grained quartz rich sandstone. Grains - subangular to subrounded with low to mod. sphericity No cement		
1432.5																		Fl: patchy, mod. dull, grn yellow Instant streaming - instant diffuse pale yellow cut		
																		Siltstone - clean ? bedding weakly cemented by CO ₂ at base rare medium sand	21.0	5.8
1432.9																				
	BOTTOM OF CORE 3																			



WELL : KING #1

CORE : 4

296129

DEPTH (m)	LITHOLOGY	GRAIN SIZE							FLUOR. %	SORTING			COMMENTS	Ø	K	
		M	S	V	F	F	M	C		V	C	P				M	W
1434.0	.. 												✓	Clean, cross bedded siltstone No cement to weakly cemented		
29 →	..													No fluor.	29.0	181
1434.5	..															
30 →	.. 													Slightly muddier siltstone than unit above	28.9	366
1435.0	..															
31 →	.. 													Cross bedded / laminated siltstone No cement to weakly cemented	27.7	429
1435.5	..															
32 →	.. 													No fluor.	24.2	316
1436.0	.. 													Muddy siltstone No cement		
1436.5	..															

3.3 Porosity and Permeability Data

Amdel Core Services
Petroleum Reservoir Engineering Data

PO Box 5523 Brendale Q 4500
Tel : (07) 298-5272

CORE ANALYSIS FINAL REPORT

Company : SAGASCO RESOURCES LTD.
Well : KING No.1
Field : WC Date : 13/11/92
Core Interval : CORE No.1 1397.00-1400.50M
Core Interval : CORE No.2 1402.00-1407.70M
Core Interval : C3 1423.50-1432.90M C4 1434.00-1143.00M
File No. : HG187
Country : AUSTRALIA State : T-18-P

Sample No.	Depth	Porosity		Density		Permeability (md)		Summation of Fluids			Remarks
		HeInj	RollPor	Nat. Grain		KH	Roll KH	Por	Oil	Water		See Below
1	1398.08	16.0	20.1	2.37	2.64	2.28	7.6	17.2	4.1	89.6	C#1
2	1398.60	28.4	26.0	2.17	2.65	82.9	35.6	29.1	4.6	87.8	
3	1398.92	31.1	29.7	2.14	2.67	102	91.9	28.5	3.8	86.4	
4	1399.08	28.1	29.2	2.16	2.67	82.6	86.1	28.4	4.7	87.9	
5	1399.40	29.4	27.0	2.22	2.73	79.1	48.2	25.5	3.9	85.7	
6	1400.05	21.1	21.7	2.20	2.65	10.5	8.8	25.7	3.2	85.0	
7	1403.73	15.2	16.2	2.38	2.64	0.70	1.72	15.8	5.3	88.5	C#2
8	1404.40	13.4	16.5	2.96	3.11	1.70	2.46	8.0	0.0	98.9	
9	1405.16	23.9	21.4	2.18	2.64	18.0	10.5	24.8	4.5	87.2	
10	1406.75	24.3	25.2	2.17	2.64	21.8	33.7	27.1	6.1	80.6	
11	1423.62	28.2	28.1	2.11	2.66	149	102	32.7	0.6	89.4	C#3
12	1424.38	31.6	30.5	2.14	2.66	221	191	30.3	0.7	91.1	
13	1424.80	30.4	30.7	2.10	2.68	184	205	32.0	2.0	89.7	
14	1425.35	30.5	30.5	2.15	2.69	238	285	30.0	2.2	89.8	
15	1425.90	30.7	30.6	2.19	2.65	634	588	29.4	2.2	90.9	
16	1426.35	30.5	31.3	2.13	2.66	1253	905	27.9	0.4	87.8	
17	1426.70	33.4	32.2	2.08	2.65	674	693	33.3	0.0	93.1	
18	1427.35	31.4	32.1	2.10	2.65	404	518	31.8	0.0	90.8	
19	1427.70	32.3	31.5	2.10	2.64	654	394	32.3	0.0	90.8	
20	1428.23	29.9	29.2	2.16	2.64	140	188	29.0	0.0	89.9	
21	1428.62	24.5	24.5	2.10	2.65	97.5	63.2	32.8	0.0	93.6	
22	1429.09	18.9	21.7	2.31	2.65	12.0	23.3	20.5	3.4	85.7	
23	1430.00	24.6	21.8	2.26	2.67	21.1	17.3	23.4	1.9	86.7	
24	1431.23	19.2	20.6	2.27	2.64	16.8	13.2	22.1	1.0	85.3	
25	1431.45	19.5	22.2	2.26	2.65	5.0	19.7	22.1	3.1	81.9	
26	1431.73	30.7	27.5	2.22	2.66	357	156	24.4	0.0	87.2	
27	1432.15	28.9	27.4	2.12	2.67	917	204	28.3	1.9	80.3	
28	1432.80	21.0	25.0	2.18	2.67	5.8	48.5	27.1	0.0	88.6	
29	1434.20	29.0	27.0	2.08	2.66	181	91.3	33.3	0.0	90.4	C#4
30	1434.70	28.9	28.6	2.05	2.65	366	319	31.2	2.0	69.4	
31	1435.20	27.7	27.1	2.04	2.65	429	382	34.1	0.0	91.1	
32	1435.70	24.2	25.4	2.14	2.65	316	350	30.6	0.0	94.8	

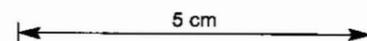
VF = Vertical Fracture; HF = Horizontal Fracture; MP = Mounted Plug; SP= Short Plug
C# = Top of Core; B# = Bottom of Core; OWC = Probable Oil/Water Contact
Tr = Probable Transition Zone; GC = Probable Gas Cap

Amdel Core Services Pty Limited shall not be liable or responsible for any loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from any information or interpretation given in this report. In no case shall Amdel Core Services Pty Ltd be responsible for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report.

3.4 Core Gamma

AMDEL CORE SERVICES PTY. LIMITED
Incorporated in South Australia

CORE PLOT



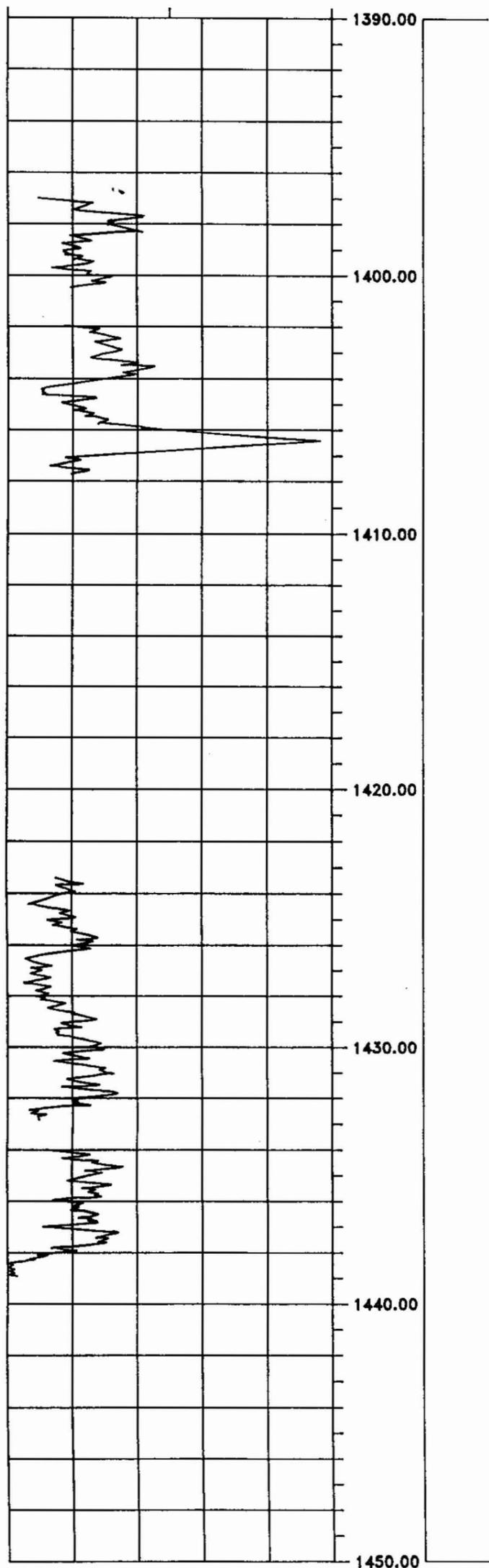
Scale 1 : 200

Company: Sagasco Resources Limited.
Well : King No.1
Field : Wildcat

Core Interval: 1397.00 - 1400.50m 1402.00 - 1407.70m
: 1423.50 - 1432.90m 1434.00 - 1439.00m
Location : South Australia T-18-P
File : HG-187

CORE GAMMA

Depth
Lithology



3.5 Petrography

PRELIMINARY VISUAL ESTIMATES OF LITHOLOGY, TEXTURE AND MINERALOGY FOR KING #1

Depth (m) Core plug	1398.60 2	1399.40 5	1400.05 6	1404.40 8	1405.90 9A	1424.38 12
Lithology	siltstone/ quartzarenite	siltstone	muddy siltstone	quartz- arenite	muddy siltstone	quartz arenite
Grain size	c. silt/ v. fine	c. silt	m.silt	v. fine	m. silt	v.fine
Sorting	moderate	moderate	poor	mod-well	v. poor	moderate
Structures	laminae bioturb.	laminae X-bedding	laminae	laminae X-bedding ?faecal pellets	burrow	stringers laminae
Framework grains						
Quartz	52	51	33	55	67	56
Feldspar	2	tr	tr	tr	tr	tr
Lithics	1	-	-	-	-	tr
Mica	4	2	10	tr	3	2
Glaucony	-	?	-	tr	tr	?
Accessory	tr	1	tr	tr	tr	tr
Matrix						
Clay	6	8 k,i,c	25	4	15	5
Opaque material	4	3	5	4	4	6
Authigenic minerals & cements						
Quartz	1	1	-	-	tr	-
Carbonate	7	10	6	25	3	4
Pyrite	tr	tr	tr	5	2	tr
Kaolin	1	-	-	tr	tr	tr
Iron oxide	-	-	-	-	2	1
Chlorite	-	-	-	-	-	-
Porosity						
Intergranular	15	20	8	tr	3	20
Dissolution	1	tr	10	6	-	5
Fractures	5	3	2	-	-	-

c=coarse, m=medium, v=very, mod=moderate, bioturb=bioturbated, tr=trace
 K=kaolinite, i=illite, c=clinochlore (chlorite) based on XRD data

PRELIMINARY VISUAL ESTIMATES OF LITHOLOGY, TEXTURE AND MINERALOGY FOR KING #1

Depth (m) Core plug	1426.70 17	1430.00 23	1431.23 24	1431.73 26	1432.15 27
Lithology	quartz-arenite	siltstone	sandy siltstone	subarkose	quartz-arenite
Grain size	v. fine/ c. sand bimodal	m.silt	m.silt/ c.sand bimodal	fine	v. fine/ m.sand bimodal
Sorting Structures	poor bedding	moderate laminae X-bedding burrows	v. poor bedding ?bioturb	moderate ?laminae	v. poor laminae X-bedding
Framework grains					
Quartz	64	51	70	58	68
Feldspar	tr	-	1	3	2
Lithics	-	-	tr	tr	tr
Mica	tr	5	4	1	1
Glaucony	?	-	-	tr	?
Accessory	2	tr	tr	tr	tr
Matrix					
Clay	tr k,i	10	2 k,i	2	-
Opaque material	3	7	6	1	tr
Authigenic minerals & cements					
Quartz	-	tr	-	-	-
Carbonate	tr	6	tr	7	3
Pyrite	-	-	tr	?	-
Kaolin	tr	-	tr	tr	-
Iron oxide	-	tr	tr	-	tr
Chlorite	-	-	-	2	-
Porosity					
Intergranular	25	5	6	15	25
Dissolution	5	12	8	10	-
Fractures	-	3	2	-	-

c=coarse, m=medium, v=very, mod=moderate, bioturb=bioturbated, tr=trace

K=kaolinite, i=illite, c=clinocllore (chlorite) based on XRD data

4 WIRELINE LOGGING REPORTS

4.1 **Field QC Log Report**



SAGASCO Resources Limited

A.C.N. 007 845 338

LOG QUALITY CONTROL SURVEY

Instructions: This form is composed of three sections. Section I (General Information) should be completed by the SAGASCO Resources Ltd witness prior to the logging operation. During and after logging, Section II (Quality Control List) should be completed by the SAGASCO witness in consultation with the logging company engineer. Section III should be completed by the SAGASCO witness at the termination of logging. Both the witness and the logging engineer should examine the complete form prior to logging so that proper planning can be made to secure the needed information and to assure good log quality. After review the completed form should be sent to SAGASCO Exploration Dept.

Section I: General Information (To be completed by the SAGASCO witness before logging.)

Well King 1	Field Exploration							
State Tasmania	Permit/Lease T/18P							
Location Bass Basin								
Permanent Datum MSL	Elevation 0m	Log Measured from RT	m above Per. Datum 22.3	Drilling measured from RT				
Elevation	KB -	DF = RT = 22.3		MSL 0m				
Date 7 November 1992	Depth-Driller 1246		Casing-Driller @ 394.4					
Bit Size 1 1/4"	Type fluid in hole SW/GEL/POLY	Density 1.12	Viscosity 46	pH 8.8	Fluid loss ml 15.5			
Tight spots in hole @ 1130, 1101, 1092m			Dog Legs @ None m					
Surface Coord:		Maximum hole angle						
X: _____								
Y: _____								
<input checked="" type="checkbox"/> Straight	TD MD: 1246							
<input type="checkbox"/> Deviated	TD TVD: 1246	degrees @ m						
Atmospheric and weather conditions: Calm with drizzle		Surface 7°C	Wind 5 kph					
Remarks pertaining to atmospheric and weather conditions that might affect log quality and operations: ie electrical storms								
Mud sample taken during circulation <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Rmf and Rmc from filter press <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Duration of last circ: 2 hours	Circulation Stopped: Time: 2300 Date: 6 November 1992				
Hrs log crew on location prior to logging	N/A	Hrs logging tools on location prior to logging	24 hrs	Suite No: 1	Copies of all previous logs from this well available on location <input type="checkbox"/> Yes <input type="checkbox"/> No			
Logs to be run	From (m)	To (m)	Number field prints needed					
			1:500	Paper	Sepias	1:200	Paper	Sepias
DLL/LSS/MSFL/GR	1246 GR to mudline	394	Run 1	5	1	Run 1	5	1

Quality Control Check List to be completed by logging company engineer and SAGASCO witness.

A General Information

- | | Yes | No | |
|----|-------------------------------------|--------------------------|---|
| 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rm] |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rmf] --- measured and reported at sample temperature? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rmc] |
| 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mud sample obtained from flowline immediately prior to stopping circulation? |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Two maximum recording thermometers run on each trip in the hole?
Time of last circulation and time since last circ, on heading? |
| 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Additional samples recorded on heading applicable if there were mud changes? |
| 5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Appropriate logging scales chosen for hole conditions (or SAGASCO requirements) and correctly reported? |
| 6 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Pre-job operational check of all tools prior to starting of logging? |
| 7 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | All tools checked going in hole? |
| 8 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 60 m (zone of interest) of each log repeated using same scale and spacings?
Develop prior to rerunning log. |
| 9 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Previous runs of all logs from this well available at location? |
| 10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Previous runs overlapped by 50 m or casing shoe (whichever is less) and compared with previous runs? |
| 11 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Logging speeds conform to logging company policy? |
| 12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | All scale changes and mechanical adjustments noted on log at proper depth and on log heading "Remarks" |
| 13 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | All field print headings completely filled out? All scales, calibrations, repeat runs and overlaps on 1:200 field print? Include scale at base and top of main log? |
| 14 | <input type="checkbox"/> | <input type="checkbox"/> | Were all curves of each log recorded to same depth reference? What is depth reference log?
N/A |
| 15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Depth displacements of all curves of each log, if any, noted on log heading? |
| 16 | | | Depth Driller: <u>1246m</u> Depth Logger: <u>1249m</u> |
| 17 | | | Date of last cable marking: <u>17 August 1992</u> . Frequency of marker: <u>25 metres</u> .
Error difference: -. / |
| 18 | | | Error difference: -. / |

Remarks

B Resistivity Log

- 1 Were surface calibrations made at wellsite? If no, location: _____ and date _____ last surface calibrations were made.
- 2 Surface, before and after downhole calibrations run, and results presented on 1:200 field prints?
- 3 Induction sonde error for before and after downhole calibration is within logging company tolerance to sonde error for surface calibration?
N/A
- 4 Proper standoffs used for hole size and mud conditions? Stand off size: 10".
- 5 SP mechanical zero and galvo calibration check made and recorded in 1:200 field print?
N/A
- 6 Was attempt made to eliminate spurious signals on SP curve and corrections made for drift? Yes spurious signals no for drift
- 7 Proper response characteristics apparent for all curves?
- 8 Times Commence rig up: 0410 In hole: 0708
Off bottom: 0902 Out of hole: 1240
- 9 Temperature T1: 134°F T2: 133°F T3:
- 10 Lost Time: 0 hrs 0 min. Tool problem Hole conditions

Remarks	See Sonic for lost time.
---------	--------------------------

C Borehole Compensated Sonic Log and/or Long Spaced Sonics

- | | Yes | No | |
|----|--|-------------------------------------|---|
| 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Centralisers compatible with hole conditions used? Centraliser size: <u>Stand offs 10 3/4", variable 8"-22"</u> |
| 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Before and after calibrations run and presented on 1:200 field prints? |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Calibration results meet logging company tolerance? |
| 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Integrator recorded, checked in casing? |
| 5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Depth displacements wjth reference log, if any, noted on log heading? |
| 6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Sonic log and caliper log checked in casing and recorded? <u>Sonic log - yes, Caliper N/A</u> |
| 7 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Was attempt made to rerun sonic in zones showing cycle skipping, spurious, noise, etc? |
| 8 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Proper response characteristics apparent for all curves? |
| 9 | Times | Commence rig up: <u>See above</u> | In hole: _____
Off bottom: _____ Out of hole: _____ |
| 10 | Temperatures: T1: <u>See above</u> T2: <u> </u> T3: <u> </u> | | |

11 Lost time: 1 hr 10 min. Tool problem Hole conditions

Remarks No 1 receiver stopped working as about to run in. Due to the combined length of the tool, 53 metres, it was necessary to break down the tool string to replace the receiver.

D Neutron - Density - Combination N/A

- 1 Surface, before and after calibration run and presented on 1:200 field prints?
- 2 Calibration results meet logging tolerance?
- 3 Caliper checked in casing and recorded?
- 4 Proper response characteristic apparent for all curves?
- 5 Good depth matching of all curves?
- 6 1:200 file - porosity scaling and lithology
- 7 Times Commence rig up: ___ In hole: ___
Off bottom: ___ Out of hole: ___
- 8 Temperature: T1: ___ T2: ___ T3: _____
- 9 Lost Time: ___ hrs ___ min Tool problem Hole conditions

Remarks

E Micro Resistivity Logs N/A

- 1 Before and after calibrations run and presented on 1:200 field prints?
- 2 Calibration results meet logging company tolerance?
- 3 Caliper checked in casing and recorded?
- 4 Proper response characteristics apparent for all curves?
- 5 Times Commence rig up: _____ In hole: _____
Off bottom: _____ Out of hole: _____
- 6 Temperatures: T1: _____ T2: _____ T3: _____
- 7 Lost time: _____ hrs _____ mins Tool problem Hole conditions

Remarks

F Dipmeter/Imaging Tool N/A

- 1 Surface calibration run and presented on 1:200 field prints?
- 2 Calibration results meet logging company tolerance?
- 3 Hole azimuth and inclination checks made with single shot data?
- 4 No excessive rotation of tool during logging?

- 5 Caliper check in casing and recorded?
- 6 Proper response characteristics apparent for all curves?
- 7 Times Commence rig up: ___ In hole: ___
Off bottom: ___ Out of hole: ___
- 8 Temperature: T1: ___ T2: ___ T3: _____
- 9 Lost Time: 0 hrs 0 min Tool problem Hole conditions

Remarks

G RFT N/A

- 1 Were pressures taken while running in hole (every 150 m)?
- 2 Has gauge been calibrated within last 3 months? When: 30 March 1992
- 3 Have automatic temperature corrections been applied to gauge?
- 4 Are before and after hydrostatic pressures within 2 PSI?
- 5 Were individual pressures allowed to stabilise?
- 6 Times Commence rig up: ___ In hole: ___
Off bottom: ___ Out of hole: ___
- 7 Temperatures: Measured from previous runs:
- 8 Lost time: 0 hrs 0 min Tool problem Hole conditions

Remarks

H Other Logs: Type Log GR

Yes No

- 1 Calibration checks within tolerance.
- 2 Log response proper for all curves?
- 3 Times Commence rig up: See above In hole: ___
Off bottom: ___ Out of hole: ___
- 4 Temperatures: T1: ___ T2: ___ T3: _____
- 5 Lost time: ___ hrs ___ min Tool problem Hole conditions

Remarks

I Other Logs: Type Log None

- 1 Calibration checks okay?
- 2 Log response proper for all curves?

3 Times Commence rig up: _____ In hole: _____
Off bottom: _____ Out of hole: _____

4 Temperatures: T1: _____ T2: _____ T3: _____

5 Lost time: _____ hrs _____ min Tool problems Hole conditions

Remarks

J Core Summary N/A

Attempted _____ Recovered _____ Number of gun runs _____

Misfired _____ Empty _____ Lost _____ % Recovery _____ Lost Time _____ hrs _____ min

1 Times: Commence rig up: _____ In hole: _____
Off bottom: _____ Out of hole: _____

Remarks: (Important: Explain any factors which may affect log quality and interpretation.)

Jonathon Reeve SAGASCO Witness	Leroy Jones Elog Engineer	21 November 1992 Date
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SAGASCO Resources Limited

A.C.N. 007 845 338

LOG QUALITY CONTROL SURVEY

Instructions: This form is composed of three sections. Section I (General Information) should be completed by the SAGASCO Resources Ltd witness prior to the logging operation. During and after logging, Section II (Quality Control List) should be completed by the SAGASCO witness in consultation with the logging company engineer. Section III should be completed by the SAGASCO witness at the termination of logging. Both the witness and the logging engineer should examine the complete form prior to logging so that proper planning can be made to secure the needed information and to assure good log quality. After review the completed form should be sent to SAGASCO Exploration Dept.

Section I: General Information (To be completed by the SAGASCO witness before logging.)

Well King 1		Field Exploration	
State Tasmania		Permit/Lease T/18P	
Location Bass Basin			
Permanent Datum MSL	Elevation 0m	Log Measured from RT	m above Per.Datum 22.3
Elevation		KB N/A	DF 22.3
Date 17 November 1992		Depth-Driller 2223	Casing-Driller @ 1237 m
Bit Size 8½	Type fluid in hole FW IDBOND MUD	Density 1140	Viscosity 53
Tight spots in hole @ TD - 1700 m		Dog Legs @ None m	
Surface Coord: E X: 372835.53		Maximum hole angle	
N Y: 5616674.27		½° @ 1240	
<input type="checkbox"/> Straight	TD MD: 2223	2° @ TD	
<input type="checkbox"/> Deviated	TD TVD: 2223	degrees @ m	
Atmospheric and weather conditions		Surface 21°C	Wind 40kph
Remarks pertaining to atmospheric and weather conditions that might affect log quality and operations: ie electrical storms			
Mud sample taken during circulation <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Rmf and Rmc from filter press <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Duration of last circ: 3½ hours	Circulation Stopped: Time: 2100 Date: 17 November 1992
Hrs log crew on location prior to logging N/A Yes	Hrs logging tools on location prior to logging N/A	Suite No: B	Copies of all previous logs from this well available on location <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Logs to be run	From (m)	To (m)	Number field prints needed
			1:500 Paper Sepias 1:200 Paper Sepias
As previously programmed.			

Quality Control Check List to be completed by logging company engineer and SAGASCO witness.

A General Information

- | | Yes | No | |
|----|-------------------------------------|--------------------------|---|
| 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rm] |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rmf] --- measured and reported at sample temperature? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Rmc] |
| 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mud sample obtained from flowline immediately prior to stopping circulation? |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Two maximum recording thermometers run on each trip in the hole?
Time of last circulation and time since last circ, on heading? |
| 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Additional samples recorded on heading applicable if there were mud changes? |
| 5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Appropriate logging scales chosen for hole conditions (or SAGASCO requirements) and correctly reported? |
| 6 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Pre-job operational check of all tools prior to starting of logging? |
| 7 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | All tools checked going in hole? |
| 8 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 60 m (zone of interest) of each log repeated using same scale and spacings?
Develop prior to rerunning log. |
| 9 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Previous runs of all logs from this well available at location? |
| 10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Previous runs overlapped by 50 m or casing shoe (whichever is less) and compared with previous runs? |
| 11 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Logging speeds conform to logging company policy? |
| 12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | All scale changes and mechanical adjustments noted on log at proper depth and on log heading "Remarks" |
| 13 | <input type="checkbox"/> | <input type="checkbox"/> | All field print headings completely filled out? All scales, calibrations, repeat runs and overlaps on 1:200 field print? Include scale at base and top of main log? |
| 14 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all curves of each log recorded to same depth reference? What is depth reference log? <u>GR</u> |
| 15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Depth displacements of all curves of each log, if any, noted on log heading? |
| 16 | | | Depth Driller: <u>2223m</u> Depth Logger: <u>2225.2m</u> |
| 17 | | | Date of last cable marking: <u>17 August 1992</u> . Frequency of marker: <u>25 metres</u> .
Error difference: -. / |
| 18 | | | Error difference: -. / |

Remarks /

B Resistivity Log

- 1 Were surface calibrations made at wellsite? If no, location: _____ and date _____ last surface calibrations were made.
- 2 Surface, before and after downhole calibrations run, and results presented on 1:200 field prints?
- 3 Induction sonde error for before and after downhole calibration is within logging company tolerance to sonde error for surface calibration?
N/A
- 4 Proper standoffs used for hole size and mud conditions? Stand off size: 7"
- 5 SP mechanical zero and galvo calibration check made and recorded in 1:200 field print?
N/A
- 6 Was attempt made to eliminate spurious signals on SP curve and corrections made for drift? No drift or spurious signals
- 7 Proper response characteristics apparent for all curves?
- 8 Times Commence rig up: 18 November 1992; 0348 In hole: 0505
Off bottom: 1105 Out of hole: 1345
- 9 Temperature T1: 191°F T2: 192°F T3: 191°F
- 10 Lost Time: 4 hrs 0 min. Tool problem Hole conditions

Remarks An electrical short developed suddenly in the cable head after logging down to TD. POOH and repair cable head. RIH and started up logs.

C Borehole Compensated Sonic Log and/or Long Spaced Sonics

- | | | | |
|--|-----|----|--|
| | Yes | No | |
|--|-----|----|--|
- 1 Centralisers compatible with hole conditions used? Centraliser size: 22"
 - 2 Before and after calibrations run and presented on 1:200 field prints?
 - 3 Calibration results meet logging company tolerance?
 - 4 Integrator recorded, checked in casing?
 - 5 Depth displacements with reference log, if any, noted on log heading?
 - 6 Sonic log and caliper log checked in casing and recorded?
 - 7 Was attempt made to rerun sonic in zones showing cycle skipping, spurious, noise, etc?
 - 8 Proper response characteristics apparent for all curves?
 - 9 Times Commence rig up: See above In hole: _____
Off bottom: _____ Out of hole: _____
 - 10 Temperatures: T1: _____ T2: _____ T3: _____
 - 11 Lost time: _____ hrs _____ min. Tool problem Hole conditions

Remarks See induction.

D Neutron - Density - Combination

- 1 Surface, before and after calibration run and presented on 1:200 field prints?
- 2 Calibration results meet logging tolerance?
- 3 Caliper checked in casing and recorded?
- 4 Proper response characteristic apparent for all curves?
- 5 Good depth matching of all curves?
- 6 1:200 file - porosity scaling and lithology Limestone matrix
- 7 Times Commence rig up: 1440 In hole: 1630
Off bottom: 2325 Out of hole: 0508
- 8 Temperature: T1: 198°F T2: 198°F T3:
- 9 Lost Time: 5 hrs 10 min Tool problem Hole conditions *

Remarks * Time lost waiting on the rig to repair the motor compensators.

E Micro Resistivity Logs

- 1 Before and after calibrations run and presented on 1:200 field prints?
- 2 Calibration results meet logging company tolerance?
- 3 Caliper checked in casing and recorded?
- 4 Proper response characteristics apparent for all curves?
- 5 Times Commence rig up: _____ In hole: _____
Off bottom: _____ Out of hole: _____
- 6 Temperatures: T1: _____ T2: _____ T3: _____
- 7 Lost time: _____ hrs _____ mins Tool problem Hole conditions

Remarks See induction

F Dipmeter/Imaging Tool

- 1 Surface calibration run and presented on 1:200 field prints?
- 2 Calibration results meet logging company tolerance?
- 3 Hole azimuth and inclination checks made with single shot data?
- 4 No excessive rotation of tool during logging?
- 5 Caliper check in casing and recorded?

6 Proper response characteristics apparent for all curves?

7 Times Commence rig up: 0917 In hole: 1020
Off bottom: 1126 Out of hole: 1330

8 Temperature: T1: 216°F T2: 216°F T3: _____

9 Lost Time: 0 hrs 0 min Tool problem Hole conditions

Remarks

G SFT

1 Were pressures taken while running in hole (every 150 m)?

2 Has gauge been calibrated within last 3 months? When: 30 March 1992

3 Have automatic temperature corrections been applied to gauge?

4 Are before and after hydrostatic pressures within 2 PSI?

5 Were individual pressures allowed to stabilise?

6 Times Commence rig up: 20 November 1992; 0240 In hole: 0316
Off bottom: 1157 Out of hole: 1225

4 Runs. These times for first run.

7 Temperatures: Measured from previous runs: Measured on first, second third and fourth run.

8 Lost time: 0 hrs 45 min Tool problem Hole conditions

Remarks	Lost time due to plugged Christmas tree during recovery of first sample. Primary and back up CQGs failed after second run. Strain gauge used for runs 2, 3 and 4. Last run with sample #3 off bottom 21 November 1992; 0040. At surface 0124. VSP started rig up @ 0230.
---------	--

H Other Logs: Type Log HFDT

Yes No

1 Calibration checks within tolerance.

2 Log response proper for all curves?

3 Times Commence rig up: 0508 In hole: 0530
Off bottom: 0707 Out of hole: 0917

4 Temperatures: T1: 212°F T2: 212°F T3: _____

5 Lost time: 0 hrs 0 min Tool problem Hole conditions

Remarks

I Other Logs: Type Log N/A

- 1 Calibration checks okay?
- 2 Log response proper for all curves?
- 3 Times Commence rig up: _____ In hole: _____
 Off bottom: _____ Out of hole: _____
- 4 Temperatures: T1: _____ T2: _____ T3: _____
- 5 Lost time: _____ hrs _____ min Tool problems Hole conditions

Remarks

J Core Summary N/A

- Attempted _____ Recovered _____ Number of gun runs _____
- Misfired _____ Empty _____ Lost _____ % Recovery _____ Lost Time _____ hrs _____ min
- 1 Times: Commence rig up: _____ In hole: _____
 Off bottom: _____ Out of hole: _____

Remarks: (Important: Explain any factors which may affect log quality and interpretation.)

Except for the problem with the cable head on the first run and the blocked christmas tree when recovering Sample 1 of the SFT, there were no other problems. As a consequence the log data acquired was of very good quality, which was also helped by the good hole conductor.

The only deficiency was in the recovery of the 5 and 7 samples where a graduated bucket with a tap at the base is required to accurately measure 2 phase liquid recoveries. In addition I believe the gas meter for measuring the recovered volume of gas needs replacing or a major overhaul as I do not believe it to be very accurate.

In respect of the segregated chamber and the shear pin shearing prior to the 5 gallon chamber filling, a smaller choke may help remedy this. Leroy Jones is going to enquire if smaller chokes are available.

Note: Above comment written after L Jones signed below.

Jonathon Reeve SAGASCO Witness	Leroy Jones Elog Engineer	21 November 1992 Date
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MRC9211051-ACM

4.2 Preliminary Log Interpretation

KING 1**PRELIMINARY LOG INTERPRETATION****SUMMARY**

King 1 was drilled in T/18P and located approximately 2km SW and 33m updip from Cormorant 1. The primary objective of King 1 was to appraise the reservoir quality and hydrocarbon potential of the Upper Eastern View Coal Measures (EVCM).

A quicklook log interpretation was performed by SAGASCO Resources Ltd using the HRI-MSFL-LSS-GR and DSN-SDL suites of logs. Due to the preliminary nature of the report the well has not been zoned. A tabular listing of the interpreted log analysis is attached (Appendix 1) and an analog plot of the data is presented.

Log analysis results and SFT testing failed to indicate the presence of producible hydrocarbons. King 1 was plugged and abandoned.

1 NET HYDROCARBON PAY SUMMARY

RESERVOIR	INTERVAL (m)	NET PAY (m)	AVE ϕ (%)	AVE Sw (%)	COMMENTS
Demons Bluff	1275.3-1276.3	1.1	31	58	
EVCM	1644.9-1645.9	1.1	29	43	COAL *
EVCM	1687.0-1687.7	0.8	24	41	COAL *
EVCM	1807.3-1808.7	1.5	32	50	COAL *
EVCM	1819.8-1820.8	1.1	30	42	COAL *
EVCM	1870.7-1871.4	0.8	34	19	COAL *
EVCM	2049.1-2050.0	1.0	13	54	
EVCM	2051.5-2052.3	0.9	20	54	
EVCM	2053.1-2053.9	0.9	26	58	
EVCM	2056.9-2057.3	0.5	17	38	
EVCM	2059.0-2059.5	0.6	27	25	

The above table only displays Net Pay ≥ 0.5 m, a full Net Pay listing is included as Appendix 2 and displayed on the analog plot in the depth track (left = Net Pay, right = Net Sand).

* Most "Net Pay" is produced by coal bed shoulder effects.

2 NET PAY CRITERIA

Porosity (ϕ)	>	8%
Shale Volume (Vsh)	<	35%
Water Saturation (Sw)	<	60%

3 INTERPRETATION METHOD

Environmentally corrected log readings were quantitatively evaluated using a quicklook interpretation method.

PARAMETER	DERIVATION
Porosity (ϕ)	Neutron-Density Crossplot
Shale Volume (Vsh)	Gamma Ray Method (Tertiary)
True Resistivity (Rt)	High Resolution Deep Induction Log
Water Saturation (Sw)	Archie
Tortuosity Factor (a)	0.65
Saturation Exponent (n)	2.0
Cementation Exponent (m)	2.15

4 MUD SYSTEM (Fresh Water Polymer)

Mud Density		1.14		
Mud Resistivity	(Rm)	1.085	@	62°F
Mud Filtrate Resistivity	(Rmf)	0.945	@	62°F
Mud Cake Resistivity	(Rmc)	1.018	@	62°F
Bottom Hole Temperature	(BHT)	212°F		

5 FORMATION WATER RESISTIVITY

FORMATION	Rw @ 75°F	REMARKS
EVCM	0.15 Ω /M	Calculated from SP and Hingle Plot

6 CORE SUMMARY

Four full hole cores were cut in King 1

CORE #	INTERVAL (m)	RECOVERY (%)
1	1397-1402 (D)	70
2	1402-1410.5 (D)	67
3	1423.4-1434 (D)	89
4	1434-1440 (D)	83

(D) = Drillers Depth

MRC9212008-AJB

7 **REMARKS**

Oil fluorescence was noted within core #1 up to 80%, core #2 up to 60% and core #3 up to 40%. Gas recorded throughout the EVCM was generally associated with coal seams.

SFT pressure tests performed over intervals displaying hydrocarbon shows or low water saturations and log pay inferred water wet reservoirs. SFT samples recorded formation water confirming the results of the pressure data.

APPENDIX 1
INTERPRETED LOG LISTING

Well Name: KING #1
Location: BASS BASIN
Constraints: None

Date: 29.10.92

296157

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1250.000	.1825	.2738	1.5290	.6492	.2738	.1777
1251.000	.1892	.2721	1.1860	.7418	.2721	.2018
1252.000	.1811	.2823	1.5700	.6197	.2823	.1749
1253.000	.2096	.2943	1.5660	.5932	.2943	.1746
1254.000	.2234	.2829	1.5560	.6207	.2829	.1756
1255.000	.3189	.2461	1.5620	.7195	.2461	.1771
1256.000	.3010	.2583	1.5450	.6867	.2583	.1773
1257.000	.2524	.2749	1.5230	.6467	.2749	.1778
1258.000	.2755	.2880	1.5750	.6047	.2880	.1741
1259.000	.3165	.2750	1.5380	.6429	.2750	.1768
1260.000	.3149	.2535	1.3920	.7375	.2535	.1869
1261.000	.1499	.2823	1.0710	.7486	.2823	.2114
1262.000	.1821	.2743	.9960	.8006	.2743	.2196
1263.000	.1636	.2835	.9440	.7936	.2835	.2250
1264.000	.0842	.2098	1.3090	.9311	.1959	.1954
1265.000	.1607	.2455	1.1080	.8546	.2455	.2098
1266.000	.1466	.2822	1.0090	.7708	.2822	.2175
1267.000	.1606	.2916	1.0190	.7403	.2916	.2159
1268.000	.1859	.2735	1.1450	.7481	.2735	.2046
1269.000	.1579	.2826	1.1420	.7231	.2826	.2043
1270.000	.1230	.2952	1.1810	.6783	.2952	.2002
1271.000	.1517	.2788	1.1920	.7178	.2788	.2001
1272.000	.1702	.2708	1.2430	.7249	.2708	.1963
1273.000	.1462	.2768	1.4050	.6660	.2768	.1843
1274.000	.1338	.2934	1.4040	.6255	.2934	.1836
1275.000	.1942	.2789	1.5380	.6311	.2789	.1760
1276.000	.1940	.3135	1.4990	.5636	.3135	.1767
1277.000	.2235	.2598	1.4080	.7115	.2598	.1849
1278.000	.2304	.2313	1.2920	.8415	.2313	.1946
1279.000	.1550	.2664	1.2410	.7374	.2664	.1964
1280.000	.1252	.2815	1.1680	.7163	.2815	.2016
1281.000	.1600	.2514	1.3400	.7549	.2514	.1898
1282.000	.0894	.2830	1.3330	.6662	.2830	.1886
1283.000	.1293	.2649	1.3650	.7069	.2649	.1872
1284.000	.1449	.2611	1.4070	.7069	.2611	.1846
1285.000	.1935	.2479	1.5830	.7046	.2479	.1747
1286.000	.1755	.2105	2.7790	.6337	.2105	.1334
1287.000	.1920	.2598	1.6710	.6517	.2598	.1693
1288.000	.2295	.2892	1.4250	.6288	.2892	.1818
1289.000	.3070	.2522	1.3210	.7563	.2522	.1908
1290.000	.3413	.1905	1.4210	.9859	.1905	.1878
1291.000	.2513	.2136	1.3310	.9007	.2136	.1924
1292.000	.0639	.1147	2.6860	1.2363	.0603	.0603
1293.000	.2492	.2246	1.0070	.9805	.2246	.2202
1294.000	.1777	.2263	1.1700	.9020	.2263	.2041
1295.000	.2386	.2115	1.2260	.9475	.2115	.2004
1296.000	.1708	.2665	1.1980	.7476	.2665	.1992
1297.000	.0699	.2401	1.1890	.8390	.0693	.0693
1298.000	.0989	.2832	.5260	1.0563	.2832	.2832
1299.000	.1174	.3193	.8340	.7371	.2824	.2354

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1300.000	.1080	.2980	.6360	.9090	.2980	.2709
1301.000	.0688	.3413	.5940	.8127	.3224	.2774
1302.000	.0422	.3491	.5070	.8584	.3359	.2997
1303.000	.0463	.3546	.4990	.8506	.3442	.3017
1304.000	.1216	.3041	.7550	.8157	.2766	.2480
1305.000	.1361	.0000	.8430	1.0000	.0000	.0000
1306.000	.1265	.0000	.9470	1.0000	.0000	.0000
1307.000	.2630	.2623	1.1920	.7604	.2623	.1995
1308.000	.2656	.2840	1.2410	.6842	.2617	.1943
1309.000	.0886	.3324	.6460	.8005	.3293	.2661
1310.000	.0977	.2877	.9310	.7785	.2877	.2240
1311.000	.0935	.2977	.9030	.7619	.2724	.2268
1312.000	.2160	.2684	1.2340	.7283	.2684	.1955
1313.000	.1500	.2443	1.2280	.8077	.1771	.1771
1314.000	.3635	.2484	.9530	.9006	.2484	.2237
1315.000	.5263	.2050	1.0280	1.0657	.2050	.2050
1316.000	.3185	.2447	1.3050	.7818	.2447	.1913
1317.000	.3863	.2280	1.1740	.8890	.2280	.2027
1318.000	.3049	.2406	1.2210	.8225	.2406	.1979
1319.000	.3365	.2042	1.5670	.8658	.2042	.1768
1320.000	.3889	.2099	1.7330	.7993	.2099	.1678
1321.000	.4067	.1952	1.9010	.8250	.1952	.1610
1322.000	.3748	.2318	1.9460	.6776	.2318	.1571
1323.000	.2856	.2613	2.1260	.5698	.2613	.1489
1324.000	.3569	.2410	1.7690	.6812	.2410	.1642
1325.000	.4730	.1842	1.8610	.8868	.1842	.1633
1326.000	.3385	.2152	1.8910	.7440	.2152	.1601
1327.000	.3643	.2351	1.8910	.6764	.2351	.1590
1328.000	.4335	.2175	1.9220	.7292	.2175	.1586
1329.000	.3826	.2012	1.9990	.7772	.2012	.1564
1330.000	.2632	.2028	2.0220	.7661	.2028	.1554
1331.000	.3377	.1974	1.8800	.8180	.1974	.1614
1332.000	.4265	.1764	1.8590	.9280	.1764	.1637
1333.000	.4740	.1814	1.7620	.9249	.1814	.1678
1334.000	.4847	.1791	1.4530	1.0320	.1791	.1791
1335.000	.4573	.2057	1.0690	1.0370	.2057	.2057
1336.000	.2221	.2543	1.2600	.7601	.2543	.1933
1337.000	.4290	.2078	1.2700	.9403	.2078	.1954
1338.000	.3996	.2058	1.2500	.9574	.2058	.1971
1339.000	.3904	.2081	1.2410	.9495	.2081	.1976
1340.000	.3595	.2054	1.3730	.9154	.2054	.1880
1341.000	.4108	.1902	1.4060	.9822	.1902	.1868
1342.000	.2609	.2042	1.5380	.8697	.1659	.1659
1343.000	.4863	.0463	1.5910	4.2143	.0463	.0463
1344.000	.4409	.1857	1.2630	1.0628	.1857	.1857
1345.000	.2362	.2372	1.6220	.7207	.2279	.1709
1346.000	.4197	.1976	1.6570	.8677	.1976	.1714
1347.000	.4970	.1787	1.8420	.9165	.1787	.1638
1348.000	.5966	.1564	1.9510	1.0276	.1564	.1564
1349.000	.7084	.1111	1.8240	1.5340	.1111	.1111

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1350.000	.4221	.1676	1.5450	1.0718	.1676	.1676
1351.000	.3822	.1779	1.5190	1.0130	.1779	.1779
1352.000	.5969	.1346	1.6220	1.3229	.1346	.1346
1353.000	.7161	.1010	1.7680	1.7259	.1010	.1010
1354.000	.3913	.1645	1.9730	.9668	.1645	.1590
1355.000	.4903	.1545	1.6200	1.1405	.1545	.1545
1356.000	.5936	.1359	1.6920	1.2815	.1359	.1359
1357.000	.5455	.1348	1.8410	1.2388	.1348	.1348
1358.000	.7487	.1002	1.8640	1.6923	.1002	.1002
1359.000	.6953	.1087	1.9640	1.5104	.1087	.1087
1360.000	.7347	.0939	1.8550	1.8198	.0939	.0939
1361.000	.8974	.0586	1.8430	3.0295	.0586	.0586
1362.000	.5265	.1428	1.8280	1.1669	.1428	.1428
1363.000	.5246	.1426	1.7120	1.2079	.1426	.1426
1364.000	.5958	.1288	1.7440	1.3344	.1288	.1288
1365.000	.6510	.1174	1.9440	1.3966	.1174	.1174
1366.000	.5038	.1556	1.9280	1.0358	.1556	.1556
1367.000	.6620	.1226	2.0750	1.2894	.1226	.1226
1368.000	.5713	.1423	2.2690	1.0502	.1423	.1423
1369.000	.8073	.1012	2.1420	1.5595	.1012	.1012
1370.000	.8585	.0730	2.2670	2.1518	.0730	.0730
1371.000	.7869	.0922	2.1870	1.7038	.0922	.0922
1372.000	.6649	.1160	2.1660	1.3384	.1160	.1160
1373.000	.7257	.1019	2.1560	1.5415	.1019	.1019
1374.000	.6428	.1168	2.2130	1.3135	.1168	.1168
1375.000	.8596	.0425	2.2010	3.8995	.0425	.0425
1376.000	.6983	.1123	2.2250	1.3663	.1123	.1123
1377.000	.6869	.1227	2.3880	1.1988	.1227	.1227
1378.000	.8704	.0794	2.3480	1.9289	.0794	.0794
1379.000	.5336	.1339	2.3600	1.0973	.1339	.1339
1380.000	.6528	.1321	2.2450	1.1409	.1321	.1321
1381.000	.5132	.1458	2.4720	.9777	.1458	.1425
1382.000	.6033	.1149	2.3260	1.3019	.1149	.1149
1383.000	.5471	.1216	2.4230	1.2000	.1216	.1216
1384.000	.5181	.1277	2.3230	1.1618	.1277	.1277
1385.000	.5371	.1450	2.3180	1.0147	.1450	.1450
1386.000	.4851	.1593	2.3930	.9024	.1593	.1438
1387.000	.6207	.1121	2.3360	1.3327	.1121	.1121
1388.000	.6966	.0870	2.4030	1.7250	.0870	.0870
1389.000	.4407	.1561	2.5780	.8881	.1561	.1386
1390.000	.4138	.1705	2.2260	.8689	.1705	.1482
1391.000	.3536	.1584	2.0580	.9780	.1584	.1549
1392.000	.4761	.1409	2.0650	1.1073	.1409	.1409
1393.000	.4659	.1250	2.1720	1.2277	.1250	.1250
1394.000	.5316	.1081	2.2230	1.4185	.1081	.1081
1395.000	.4072	.1423	1.8630	1.1528	.1423	.1423
1396.000	.5389	.1286	2.0020	1.2399	.1286	.1286
1397.000	.3419	.1887	2.2730	.7703	.1887	.1453
1398.000	.4280	.1830	2.0200	.8441	.1830	.1545
1399.000	.3867	.1950	1.8280	.8285	.1950	.1616

DEPTH	VSHTOT	POR	HRESD	SW	SXO*PO	SW*POR
1400.000	.3168	.2206	1.5800	.7804	.2206	.1722
1401.000	.4864	.1512	1.8690	1.0770	.1512	.1512
1402.000	.2931	.2374	1.0670	.8774	.2374	.2083
1403.000	.2347	.2675	.8930	.8433	.2645	.2256
1404.000	.3458	.2104	1.0710	.9965	.2104	.2097
1405.000	.3867	.1782	1.6350	.9640	.1782	.1718
1406.000	.6175	.1212	2.0320	1.3082	.1212	.1212
1407.000	.1944	.2127	1.3100	.8902	.2127	.1893
1408.000	.3523	.2000	1.0590	1.0574	.2000	.2000
1409.000	1.0000	.0277	1.5580	7.3094	.0277	.0277
1410.000	.4801	.1762	.8650	1.3401	.1762	.1762
1411.000	.3490	.2408	.7110	1.0567	.2408	.2408
1412.000	.3229	.2550	.7260	.9828	.2550	.2506
1413.000	.3328	.2039	1.5400	.8583	.2039	.1750
1414.000	.4428	.1545	1.8760	1.0471	.1545	.1545
1415.000	.5563	.1315	1.7550	1.2878	.1315	.1315
1416.000	.3217	.2301	.8880	.9915	.2301	.2282
1417.000	.3067	.2367	.8310	.9944	.2367	.2353
1418.000	.3569	.2276	1.1580	.8783	.2276	.1999
1419.000	.3681	.1864	1.6010	.9258	.1864	.1725
1420.000	.3975	.1750	1.0910	1.1996	.1750	.1750
1421.000	.3119	.2389	.7840	1.0128	.2389	.2389
1422.000	.4545	.2150	.7710	1.1434	.2150	.2150
1423.000	.2858	.2543	.6780	1.0178	.2543	.2543
1424.000	.3639	.2353	.6980	1.0900	.2353	.2353
1425.000	.3797	.2390	.6390	1.1201	.2390	.2390
1426.000	.3222	.2552	.6240	1.0561	.2552	.2552
1427.000	.1992	.2776	.6490	.9458	.2776	.2626
1428.000	.3077	.2537	.7140	.9932	.2537	.2520
1429.000	.2745	.2507	.7640	.9727	.2507	.2438
1430.000	.1139	.2997	.5490	.9465	.2997	.2837
1431.000	.1312	.3023	.6370	.8706	.2765	.2632
1432.000	.2121	.2636	.6630	.9886	.2636	.2606
1433.000	.2798	.2486	.8450	.9323	.2486	.2318
1434.000	.3178	.2196	.9800	.9889	.2196	.2172
1435.000	.3584	.2060	1.4170	.8809	.2060	.1815
1436.000	.1927	.2638	.6580	.9905	.2638	.2613
1437.000	.2732	.2570	.6390	1.0335	.2570	.2570
1438.000	.3956	.2352	.5860	1.1869	.2352	.2352
1439.000	.4472	.2212	.6810	1.1761	.2212	.2212
1440.000	.3403	.2360	.7950	1.0153	.2360	.2360
1441.000	.3165	.2265	.9150	.9884	.2265	.2239
1442.000	.0021	.0000	3.8490	1.0000	.0000	.0000
1443.000	.0614	.0000	2.7140	1.0000	.0000	.0000
1444.000	.1002	.2990	.7240	.8240	.2854	.2464
1445.000	.2676	.2744	.5130	1.0736	.2744	.2744
1446.000	.2317	.2705	.5470	1.0555	.2705	.2705
1447.000	.3410	.2195	.6850	1.1805	.2195	.2195
1448.000	.4172	.1950	.7480	1.2827	.1950	.1950
1449.000	.1930	.2539	.7770	.9475	.2477	.2406

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1450.000	.0388	.2939	.4220	1.0984	.2939	.2939
1451.000	.0707	.3221	.4610	.9520	.3031	.3031
1452.000	.1552	.2983	.4840	1.0088	.2983	.2983
1453.000	.1117	.2948	.5690	.9421	.2854	.2777
1454.000	.3088	.2339	.6300	1.1479	.2339	.2339
1455.000	.0410	.2699	.5560	1.0474	.2699	.2699
1456.000	.0485	.3020	.4730	1.0062	.3020	.3020
1457.000	.0603	.3043	.5150	.9563	.3043	.2910
1458.000	.0327	.3158	.4910	.9408	.3158	.2972
1459.000	.0117	.3317	.4830	.8998	.3317	.2985
1460.000	.0090	.3011	.4950	.9860	.3011	.2969
1461.000	.0162	.2973	.4670	1.0288	.2973	.2973
1462.000	.0048	.2991	.4640	1.0252	.2991	.2991
1463.000	.0123	.3000	.4720	1.0133	.3000	.3000
1464.000	.0127	.3036	.4940	.9775	.3036	.2968
1465.000	.0354	.2864	.5340	1.0009	.2864	.2864
1466.000	.0188	.2949	.5020	1.0002	.2949	.2949
1467.000	.0259	.2904	.5600	.9623	.2904	.2795
1468.000	.0112	.2955	.4510	1.0525	.2955	.2955
1469.000	.0076	.3026	.4630	1.0123	.3026	.3026
1470.000	.0098	.3010	.4330	1.0526	.3010	.3010
1471.000	.0023	.3000	.4500	1.0362	.3000	.3000
1472.000	.0081	.2988	.4360	1.0566	.2988	.2988
1473.000	.0105	.3096	.4440	1.0078	.3096	.3096
1474.000	.0156	.2987	.4500	1.0404	.2987	.2987
1475.000	.0087	.3156	.4140	1.0219	.3156	.3156
1476.000	.0189	.2848	.5130	1.0250	.2848	.2848
1477.000	.0113	.2931	.4730	1.0347	.2931	.2931
1478.000	.1358	.2576	.7000	.9772	.2576	.2517
1479.000	.3122	.2327	.5960	1.1809	.2327	.2327
1480.000	.5518	.1841	.6170	1.4930	.1841	.1841
1481.000	.2203	.2498	.6460	1.0506	.2498	.2498
1482.000	.2076	.3004	.7810	.7835	.2515	.2354
1483.000	.0944	.0000	.6400	1.0000	.0000	.0000
1484.000	.0938	.3246	.5200	.8831	.2905	.2867
1485.000	.1087	.2825	.5350	1.0109	.2825	.2825
1486.000	.1258	.2840	.4960	1.0435	.2840	.2840
1487.000	.2584	.2640	.5430	1.0786	.2640	.2640
1488.000	.2530	.2476	.6660	1.0433	.2476	.2476
1489.000	.2739	.2311	.7670	1.0466	.2311	.2311
1490.000	.2804	.2249	.8720	1.0107	.2249	.2249
1491.000	.4879	.1598	1.1830	1.2525	.1598	.1598
1492.000	.6129	.1676	1.2520	1.1562	.1676	.1676
1493.000	.4643	.1818	.9090	1.2432	.1818	.1818
1494.000	.3672	.2055	.8390	1.1344	.2055	.2055
1495.000	.3081	.2121	1.0640	.9735	.2121	.2065
1496.000	.6317	.1178	1.0880	1.8112	.1178	.1178
1497.000	.3545	.1900	1.2690	1.0030	.1900	.1900
1498.000	.2371	.2074	.8110	1.1417	.2074	.2074
1499.000	.3828	.2215	.6580	1.1806	.2215	.2215

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1500.000	.4339	.2079	.6550	1.2662	.2079	.2079
1501.000	.3281	.2170	.8210	1.0802	.2170	.2170
1502.000	.3381	.1855	1.1320	1.0883	.1855	.1855
1503.000	.4481	.1482	1.4410	1.2276	.1482	.1482
1504.000	.5677	.1195	1.4930	1.5205	.1195	.1195
1505.000	.1830	.2208	1.8660	.7025	.2037	.1551
1506.000	.0000	.0000	6.5770	1.0000	.0000	.0000
1507.000	.0796	.0000	4.4540	1.0000	.0000	.0000
1508.000	.3177	.2354	.9500	.9185	.2354	.2162
1509.000	.3836	.1907	1.3150	.9790	.1907	.1867
1510.000	.4924	.1768	1.1720	1.1247	.1768	.1768
1511.000	.4886	.1648	1.4070	1.1070	.1648	.1648
1512.000	.4948	.1399	1.8710	1.1441	.1399	.1399
1513.000	.7294	.0977	2.0770	1.5983	.0977	.0977
1514.000	.5734	.1121	2.5200	1.2507	.1121	.1121
1515.000	.3886	.1560	2.1880	.9407	.1560	.1468
1516.000	.1108	.2378	.5190	1.2275	.2378	.2378
1517.000	.1057	.3104	.5370	.9059	.3104	.2812
1518.000	.0729	.2976	.5270	.9567	.2976	.2847
1519.000	.0891	.2903	.6090	.9141	.2903	.2653
1520.000	.0693	.2954	.5250	.9660	.2954	.2853
1521.000	.1077	.2597	.5320	1.1016	.2597	.2597
1522.000	.1531	.0000	.6640	1.0000	.0000	.0000
1523.000	.0394	.0000	4.2710	1.0000	.0000	.0000
1524.000	.3698	.1878	1.8170	.8441	.1878	.1585
1525.000	.4145	.1649	1.2260	1.1818	.1649	.1649
1526.000	.3547	.1786	1.2670	1.0666	.1786	.1786
1527.000	.2619	.2173	.8170	1.0757	.2173	.2173
1528.000	.2089	.2744	2.0830	.5242	.1953	.1438
1529.000	.3396	.0000	3.4970	1.0000	.0000	.0000
1530.000	.4295	.1852	2.8600	.6824	.1852	.1264
1531.000	.4397	.1883	2.8710	.6689	.1883	.1259
1532.000	.3770	.1969	2.7860	.6469	.1969	.1274
1533.000	.4670	.1771	2.2680	.8032	.1771	.1423
1534.000	.3752	.1949	1.3960	.9238	.1949	.1800
1535.000	.3365	.2109	1.8390	.7391	.1913	.1559
1536.000	.3906	.2107	2.0460	.7014	.1968	.1478
1537.000	.3928	.2102	1.5510	.8076	.2087	.1697
1538.000	.3292	.2276	1.4850	.7576	.2225	.1724
1539.000	.7280	.0940	2.1120	1.6429	.0940	.0940
1540.000	.1548	.3148	2.5170	.4103	.2174	.1292
1541.000	.0066	.0000	15.4040	1.0000	.0000	.0000
1542.000	.1248	.0000	3.7100	1.0000	.0000	.0000
1543.000	.4263	.0000	3.4110	1.0000	.0000	.0000
1544.000	.3891	.1806	1.5430	.9515	.1806	.1719
1545.000	.4044	.1629	1.8050	.9831	.1629	.1601
1546.000	.3640	.1818	1.3110	1.0251	.1818	.1818
1547.000	.3464	.1135	1.3680	1.6644	.1135	.1135
1548.000	.2397	.1391	2.3720	1.0156	.1391	.1391
1549.000	.3071	.1648	1.1490	1.2162	.1648	.1648

DEPTH	VSHTOT	POR	HRES D	SW	SXO*PO	SW*POR
1550.000	.2550	.2059	1.2430	.9197	.2059	.1894
1551.000	.5210	.1301	2.1730	1.1396	.1301	.1301
1552.000	.3541	.1673	2.0720	.8902	.1673	.1490
1553.000	.7356	.0881	1.9280	1.8384	.0881	.0881
1554.000	.1964	.2422	1.1530	.8016	.2422	.1941
1555.000	.4957	.1747	1.5130	.9940	.1747	.1736
1556.000	.4718	.1417	1.2190	1.3862	.1417	.1417
1557.000	.4812	.1425	1.9010	1.1038	.1425	.1425
1558.000	.4592	.1476	2.0280	1.0285	.1476	.1476
1559.000	.5453	.1271	2.4120	1.1074	.1271	.1271
1560.000	.3141	.2221	2.3270	.6187	.2169	.1374
1561.000	.5439	.1714	1.3220	1.0840	.1714	.1714
1562.000	.5257	.1351	1.6730	1.2447	.1351	.1351
1563.000	.4074	.1624	1.8610	.9676	.1624	.1572
1564.000	.6864	.0893	2.3120	1.6520	.0893	.0893
1565.000	.2777	.2098	1.3530	.8615	.2098	.1808
1566.000	.1924	.2346	.9370	.9180	.2346	.2154
1567.000	.1917	.2382	.8340	.9572	.2382	.2280
1568.000	.5083	.1370	1.1920	1.4506	.1370	.1370
1569.000	.2417	.1040	1.9980	1.5060	.0514	.0514
1570.000	.4792	.0492	1.5060	3.8820	.0492	.0492
1571.000	.5726	.1416	1.1140	1.4478	.1416	.1416
1572.000	.3536	.1860	1.2260	1.0287	.1860	.1860
1573.000	.3812	.1551	1.9460	.9928	.1551	.1540
1574.000	.6416	.0669	2.3720	2.2196	.0669	.0669
1575.000	.4024	.1422	2.6190	.9388	.1422	.1335
1576.000	.9009	.0270	2.7220	5.4916	.0270	.0270
1577.000	.3225	.1658	1.9550	.9209	.1658	.1527
1578.000	.2525	.2022	1.3150	.9074	.2022	.1834
1579.000	.6153	.0995	2.0990	1.5390	.0995	.0995
1580.000	.2419	.2109	1.8800	.7249	.2030	.1529
1581.000	.3744	.1797	.8900	1.2513	.1797	.1797
1582.000	.3513	.2004	.9740	1.0631	.2004	.2004
1583.000	.5071	.1598	.9180	1.3970	.1598	.1598
1584.000	.2434	.2226	1.0480	.9154	.2226	.2038
1585.000	.3729	.1166	1.1890	1.7213	.1166	.1166
1586.000	.3596	.1911	1.1470	1.0304	.1911	.1911
1587.000	.2232	.2159	1.0660	.9372	.2159	.2024
1588.000	.4334	.1781	1.0040	1.1878	.1781	.1781
1589.000	.4497	.1568	1.3190	1.1882	.1568	.1568
1590.000	.3583	.1724	1.3890	1.0454	.1724	.1724
1591.000	.5363	.1229	1.9630	1.2646	.1229	.1229
1592.000	.4875	.1346	2.1220	1.1030	.1346	.1346
1593.000	.6360	.0893	2.7380	1.5090	.0893	.0893
1594.000	.1636	.2311	1.1320	.8442	.2311	.1951
1595.000	.4459	.1524	2.0920	.9718	.1524	.1481
1596.000	.5437	.1366	2.3440	1.0326	.1366	.1366
1597.000	.6303	.1192	2.9120	1.0716	.1192	.1192
1598.000	.8422	.0748	2.4490	1.9291	.0748	.0748
1599.000	.4966	.1534	1.9740	.9921	.1534	.1522

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1600.000	.2922	.2062	1.1060	.9644	.2062	.1989
1601.000	.3774	.1659	1.4250	1.0732	.1659	.1659
1602.000	.3866	.1599	1.7250	1.0148	.1599	.1599
1603.000	.5176	.1284	4.2430	.8189	.1284	.1052
1604.000	.1016	.0000	10.7650	1.0000	.0000	.0000
1605.000	.5687	.0000	2.6310	1.0000	.0000	.0000
1606.000	.3513	.1847	1.8630	.8355	.1847	.1543
1607.000	.2724	.2080	.8840	1.0674	.2080	.2080
1608.000	.2243	.2554	.8230	.8868	.2554	.2265
1609.000	.4489	.1733	1.2190	1.1058	.1733	.1733
1610.000	.4142	.1450	1.2640	1.3144	.1450	.1450
1611.000	.4221	.1709	1.3260	1.0760	.1709	.1709
1612.000	.7236	.0921	1.9740	1.7142	.0921	.0921
1613.000	.3961	.1750	1.9370	.8670	.1750	.1518
1614.000	.6706	.1088	2.3320	1.3168	.1088	.1088
1615.000	.3854	.1526	2.4810	.8877	.1526	.1354
1616.000	.8871	.0253	3.0980	5.4746	.0253	.0253
1617.000	.8340	.0479	3.1760	2.7268	.0479	.0479
1618.000	.8152	.0716	3.2170	1.7559	.0716	.0716
1619.000	.2918	.2146	2.3440	.6324	.2146	.1357
1620.000	.6314	.1284	2.9480	.9796	.1284	.1258
1621.000	.7011	.0854	3.2620	1.4423	.0854	.0854
1622.000	.8692	.0689	2.8950	1.9293	.0689	.0689
1623.000	.7165	.0855	2.7370	1.5736	.0855	.0855
1624.000	.6306	.0964	3.2050	1.2775	.0964	.0964
1625.000	.6594	.0898	3.2490	1.3687	.0898	.0898
1626.000	.5404	.1035	3.3630	1.1554	.1035	.1035
1627.000	.2683	.1581	2.3860	.8695	.1581	.1374
1628.000	.5201	.1363	2.6590	.9656	.1363	.1316
1629.000	.4948	.1346	2.8790	.9408	.1346	.1266
1630.000	.6463	.0915	2.6200	1.4927	.0915	.0915
1631.000	.4812	.1283	2.4520	1.0726	.1283	.1283
1632.000	.0000	.0000	4.3400	1.0000	.0000	.0000
1633.000	.2025	.0000	7.1960	1.0000	.0000	.0000
1634.000	.4239	.1700	1.8630	.9085	.1700	.1545
1635.000	.6637	.0947	2.0480	1.6259	.0947	.0947
1636.000	.8584	.0493	2.7230	2.8402	.0493	.0493
1637.000	.9876	.0254	3.0790	5.4423	.0254	.0254
1638.000	.9338	.0351	3.3060	3.7117	.0351	.0351
1639.000	.4818	.0000	2.4680	1.0000	.0000	.0000
1640.000	.4303	.1797	2.2930	.7708	.1797	.1385
1641.000	.6807	.1013	2.7460	1.3035	.1013	.1013
1642.000	.7245	.1180	2.8940	1.0778	.1180	.1180
1643.000	.7124	.0842	2.8890	1.5501	.0842	.0842
1644.000	.6156	.0782	3.3570	1.5578	.0782	.0782
1645.000	.2141	.2713	2.0870	.5183	.2143	.1406
1646.000	.1140	.0000	4.9900	1.0000	.0000	.0000
1647.000	.3248	.0000	2.7290	1.0000	.0000	.0000
1648.000	.3394	.1526	1.7160	1.0608	.1526	.1526
1649.000	.3184	.1871	1.9820	.7925	.1871	.1483

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1650.000	.6026	.0993	2.7370	1.3321	.0993	.0993
1651.000	.6686	.0927	3.2290	1.3213	.0927	.0927
1652.000	.5694	.1096	2.9790	1.1476	.1096	.1096
1653.000	.4581	.1179	3.0370	1.0510	.1179	.1179
1654.000	.4873	.0961	3.2930	1.2576	.0961	.0961
1655.000	.7069	.0536	3.6030	2.2529	.0536	.0536
1656.000	.3730	.1810	2.0560	.8056	.1810	.1458
1657.000	.0000	.0000	4.5980	1.0000	.0000	.0000
1658.000	.7677	.0000	4.5050	1.0000	.0000	.0000
1659.000	.7362	.0953	2.9100	1.3483	.0953	.0953
1660.000	.6247	.1119	2.2910	1.2788	.1119	.1119
1661.000	.5929	.0921	2.9110	1.3984	.0921	.0921
1662.000	.6116	.0970	3.0560	1.2904	.0970	.0970
1663.000	.5567	.1027	3.2170	1.1827	.1027	.1027
1664.000	.7530	.0349	2.8640	4.0012	.0349	.0349
1665.000	.2350	.1804	1.6750	.8937	.1804	.1613
1666.000	.6408	.0721	3.0360	1.7804	.0721	.0721
1667.000	.3312	.1380	3.4440	.8310	.1380	.1147
1668.000	.2942	.1876	2.1760	.7514	.1876	.1410
1669.000	.3531	.1734	2.1000	.8327	.1734	.1444
1670.000	.4158	.1793	2.2550	.7749	.1793	.1389
1671.000	.4083	.1767	2.0500	.8255	.1767	.1458
1672.000	.4227	.1773	2.1250	.8074	.1773	.1432
1673.000	.3739	.1495	2.2580	.9412	.1495	.1407
1674.000	.6694	.0756	2.6150	1.8197	.0756	.0756
1675.000	.4393	.1232	2.7560	1.0479	.1232	.1232
1676.000	.6550	.0603	3.1170	2.1231	.0603	.0603
1677.000	.8238	.0371	3.5230	3.3717	.0371	.0371
1678.000	.3714	.0000	4.0920	1.0000	.0000	.0000
1679.000	.1151	.0000	8.1410	1.0000	.0000	.0000
1680.000	.1936	.0000	.9770	1.0000	.0000	.0000
1681.000	.4459	.2096	.9520	1.0061	.2096	.2096
1682.000	.1397	.2669	.6510	.9383	.2669	.2504
1683.000	.7450	.1076	2.0040	1.4200	.1076	.1076
1684.000	.6734	.0693	2.8240	1.9191	.0693	.0693
1685.000	.7455	.0700	3.2670	1.7656	.0700	.0700
1686.000	.7012	.0717	3.4910	1.6626	.0717	.0717
1687.000	.2861	.1981	3.6890	.5425	.1924	.1075
1688.000	.0006	.0000	11.9200	1.0000	.0000	.0000
1689.000	.2583	.2689	1.8870	.5460	.2195	.1468
1690.000	.4917	.1349	1.1240	1.4849	.1349	.1349
1691.000	.3516	.1687	1.8360	.9132	.1585	.1541
1692.000	.5964	.1016	2.3470	1.3930	.1016	.1016
1693.000	.8569	.0363	2.5390	4.0447	.0363	.0363
1694.000	.6018	.0991	3.1100	1.2424	.0991	.0991
1695.000	.9598	.0237	3.0930	5.7996	.0237	.0237
1696.000	.9626	.0203	3.0150	6.9333	.0203	.0203
1697.000	.4848	.1162	3.6550	.9650	.1162	.1122
1698.000	.7697	.0489	3.9190	2.3658	.0489	.0489
1699.000	.2471	.0000	4.1450	1.0000	.0000	.0000

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DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1700.000	.0000	.0000	68.1320	1.0000	.0000	.0000
1701.000	.0000	.0000	36.7120	1.0000	.0000	.0000
1702.000	.0837	.0000	16.1650	1.0000	.0000	.0000
1703.000	.4818	.0000	2.1870	1.0000	.0000	.0000
1704.000	1.0000	.0000	2.5820	1.0000	.0000	.0000
1705.000	.8091	.0511	3.0230	2.5649	.0511	.0511
1706.000	.6309	.0816	3.0440	1.5440	.0816	.0816
1707.000	.6199	.0904	3.1410	1.3615	.0904	.0904
1708.000	1.0000	.0181	3.2050	7.6060	.0181	.0181
1709.000	1.0000	.0184	3.2870	7.3571	.0184	.0184
1710.000	.5530	.0824	3.4500	1.4353	.0824	.0824
1711.000	.8724	.0301	3.8270	4.0159	.0301	.0301
1712.000	.3164	.1775	2.3760	.7571	.1583	.1344
1713.000	.1224	.2250	.7030	1.0790	.2250	.2250
1714.000	.2612	.2597	.7720	.8823	.2177	.2177
1715.000	.4025	.1991	1.5260	.8347	.1991	.1662
1716.000	.2256	.2165	1.1100	.8941	.2165	.1936
1717.000	.1195	.2415	1.0990	.7988	.2280	.1930
1718.000	.8058	.0617	2.1190	2.4956	.0617	.0617
1719.000	.7991	.0599	2.6710	2.2922	.0599	.0599
1720.000	.2034	.2184	1.2250	.8425	.2184	.1840
1721.000	.4139	.2201	1.5360	.7462	.1813	.1642
1722.000	.1984	.2899	1.1220	.6491	.2555	.1882
1723.000	.1661	.0000	.7410	1.0000	.0000	.0000
1724.000	.0000	.0000	7.4050	1.0000	.0000	.0000
1725.000	.7514	.0000	2.8900	1.0000	.0000	.0000
1726.000	.3546	.1691	1.5510	.9851	.1691	.1666
1727.000	.6097	.0840	2.2490	1.7359	.0840	.0840
1728.000	.8178	.0627	1.5190	2.8882	.0627	.0627
1729.000	.4100	.1417	3.3670	.8078	.1417	.1145
1730.000	.7530	.0619	3.5200	1.9251	.0619	.0619
1731.000	.7682	.0606	3.4220	1.9952	.0606	.0606
1732.000	.8404	.0310	3.3620	4.1437	.0310	.0310
1733.000	.7256	.0456	3.4690	2.6881	.0456	.0456
1734.000	.3949	.0000	3.7540	1.0000	.0000	.0000
1735.000	.2218	.0000	1.4540	1.0000	.0000	.0000
1736.000	.3731	.1755	1.4850	.9654	.1755	.1694
1737.000	.2883	.1855	1.4270	.9277	.1855	.1721
1738.000	.3408	.0608	2.1570	2.5008	.0608	.0608
1739.000	.2720	.1895	1.1200	1.0232	.1895	.1895
1740.000	.6066	.0963	1.5170	1.8202	.0963	.0963
1741.000	.8794	.0635	2.8620	2.0718	.0635	.0635
1742.000	.6804	.0000	6.1400	1.0000	.0000	.0000
1743.000	1.0000	.0172	4.3500	6.8239	.0172	.0172
1744.000	1.0000	.1219	3.9250	.8777	.1219	.1070
1745.000	.0690	.0000	11.5250	1.0000	.0000	.0000
1746.000	.2978	.0000	1.7420	1.0000	.0000	.0000
1747.000	.3362	.1585	2.0900	.9060	.1585	.1436
1748.000	.2828	.1630	1.6170	.9994	.1630	.1629
1749.000	.5856	.1039	2.6770	1.2603	.1039	.1039

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1750.000	.9619	.0191	3.6320	6.6681	.0191	.0191
1751.000	1.0000	.0215	3.5150	5.9935	.0215	.0215
1752.000	.5443	.0892	2.8090	1.4485	.0892	.0892
1753.000	.4008	.1287	1.8240	1.2124	.1287	.1287
1754.000	.6231	.0775	2.5960	1.7527	.0775	.0775
1755.000	1.0000	.0133	3.9870	9.4164	.0133	.0133
1756.000	.4805	.1478	1.6950	1.0834	.1478	.1478
1757.000	.2085	.2137	.9730	.9615	.2137	.2055
1758.000	.2052	.2322	1.0020	.8665	.2322	.2012
1759.000	.3466	.1908	4.0060	.5352	.1272	.1021
1760.000	.0674	.0000	10.0050	1.0000	.0000	.0000
1761.000	.7057	.0000	3.7630	1.0000	.0000	.0000
1762.000	.1508	.2353	.9890	.8591	.2353	.2022
1763.000	.2812	.2121	1.2510	.8540	.2021	.1811
1764.000	.7816	.0702	2.6350	1.9320	.0702	.0702
1765.000	.8815	.0665	3.6770	1.7326	.0665	.0665
1766.000	.5836	.1051	2.9670	1.1791	.1051	.1051
1767.000	.4035	.1610	1.8590	.9413	.1610	.1516
1768.000	.0577	.2454	7.7490	.2930	.0512	.0512
1769.000	.5913	.0000	4.3990	1.0000	.0000	.0000
1770.000	1.0000	.0000	4.8740	1.0000	.0000	.0000
1771.000	1.0000	.0000	3.7480	1.0000	.0000	.0000
1772.000	.7328	.0739	1.1860	2.7190	.0739	.0739
1773.000	.3639	.2093	.8310	1.0611	.2093	.2093
1774.000	.0855	.2731	.8210	.8016	.2535	.2190
1775.000	.0402	.2868	.7050	.8207	.2868	.2354
1776.000	.0527	.2847	.6560	.8574	.2847	.2441
1777.000	.0564	.2860	.6430	.8617	.2860	.2464
1778.000	.3310	.1807	.8810	1.2057	.1807	.1807
1779.000	.9003	.0362	1.8380	4.6976	.0362	.0362
1780.000	.7871	.0306	1.9510	5.4599	.0306	.0306
1781.000	.9876	.0000	2.3710	1.0000	.0000	.0000
1782.000	.2134	.2007	.8750	1.0802	.2007	.2007
1783.000	.2935	.1984	1.0340	1.0058	.1984	.1984
1784.000	.0997	.2751	.7030	.8582	.2751	.2361
1785.000	.1367	.2619	.7470	.8774	.2619	.2298
1786.000	.1186	.2634	.8140	.8354	.2634	.2200
1787.000	.1445	.2869	.8520	.7446	.2117	.2117
1788.000	.0755	.2675	.8250	.8159	.2675	.2182
1789.000	.0728	.2638	.7820	.8505	.2638	.2243
1790.000	.0939	.2589	.8130	.8509	.2514	.2203
1791.000	.0740	.2742	.7230	.8482	.2742	.2326
1792.000	.6852	.1267	1.9940	1.1713	.1267	.1267
1793.000	.5681	.0996	1.8470	1.5747	.0996	.0996
1794.000	.4342	.1368	1.3050	1.3325	.1368	.1368
1795.000	.5620	.1230	1.2040	1.5550	.1230	.1230
1796.000	.6788	.0925	1.2680	2.0579	.0925	.0925
1797.000	1.0000	.0010	1.5940	1.0000	.0010	.0010
1798.000	.9685	.0073	1.4300	1.0000	.0073	.0073
1799.000	1.0000	.0283	1.1660	7.6632	.0283	.0283

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1800.000	.6072	.1237	.9000	1.7864	.1237	.1237
1801.000	.5505	.1374	1.3380	1.3079	.1374	.1374
1802.000	.3733	.1612	1.1970	1.1644	.1612	.1612
1803.000	.5840	.1044	1.6480	1.5835	.1044	.1044
1804.000	.4902	.1233	1.6220	1.3337	.1233	.1233
1805.000	.4286	.1321	2.0020	1.1144	.1321	.1321
1806.000	.5468	.0818	2.7110	1.6041	.0818	.0818
1807.000	.3059	.1913	2.1130	.7286	.1913	.1394
1808.000	.1102	.3518	1.3320	.4766	.2305	.1677
1809.000	.1689	.2078	1.2690	.8597	.2078	.1787
1810.000	1.0000	.0160	1.0110	15.1628	.0160	.0160
1811.000	.2480	.1540	1.9820	.9494	.1540	.1462
1812.000	.1913	.1676	1.3710	1.0415	.1676	.1676
1813.000	.3383	.1496	1.4300	1.1525	.1496	.1496
1814.000	.3227	.1626	1.5800	1.0022	.1626	.1626
1815.000	.3779	.1412	1.9950	1.0380	.1412	.1412
1816.000	.5059	.0970	3.1620	1.2337	.0970	.0970
1817.000	.6302	.0608	4.2320	1.7620	.0608	.0608
1818.000	.5914	.0631	3.7910	1.7894	.0631	.0631
1819.000	.5507	.0794	3.3910	1.4778	.0794	.0794
1820.000	.3199	.3062	3.2180	.3552	.1242	.1088
1821.000	.3048	.1585	1.7730	.9710	.1585	.1539
1822.000	.6266	.0544	3.1830	2.2888	.0544	.0544
1823.000	.5127	.0796	3.7580	1.3976	.0796	.0796
1824.000	1.0000	.0000	4.4580	1.0000	.0000	.0000
1825.000	.7625	.0405	4.6690	2.5895	.0405	.0405
1826.000	.8060	.0297	4.8920	3.5370	.0297	.0297
1827.000	.8927	.0182	4.9430	5.9449	.0182	.0182
1828.000	.8115	.0262	5.7180	3.7458	.0262	.0262
1829.000	.4193	.1341	4.2020	.7540	.1341	.1011
1830.000	.0589	.0000	1.9940	1.0000	.0000	.0000
1831.000	.1266	.2564	.8970	.8126	.2322	.2084
1832.000	.1363	.2192	1.1020	.8677	.2192	.1902
1833.000	.3439	.1528	1.2680	1.1916	.1528	.1528
1834.000	.1245	.2040	1.6980	.7551	.1152	.1152
1835.000	.1210	.1269	2.3040	1.0795	.1099	.1099
1836.000	.3346	.1304	1.3380	1.3749	.1304	.1304
1837.000	.5403	.1117	1.6580	1.4589	.1117	.1117
1838.000	.5964	.0792	2.4750	1.7274	.0792	.0792
1839.000	.3131	.1452	2.2160	.9518	.1452	.1382
1840.000	.3324	.1690	1.5550	.9647	.1654	.1630
1841.000	.4993	.1170	1.6430	1.3932	.1170	.1170
1842.000	.4661	.1246	1.7570	1.2587	.1246	.1246
1843.000	.2297	.0000	2.3590	1.0000	.0000	.0000
1844.000	.4863	.0000	3.8510	1.0000	.0000	.0000
1845.000	.4546	.0000	3.1920	1.0000	.0000	.0000
1846.000	.8700	.0193	3.8370	6.3039	.0193	.0193
1847.000	.6359	.0585	4.1950	1.8345	.0585	.0585
1848.000	.4519	.1017	3.2720	1.1468	.1017	.1017
1849.000	.9322	.0000	3.9480	1.0000	.0000	.0000

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1850.000	1.0000	.0113	4.4340	10.3995	.0113	.0113
1851.000	1.0000	.0140	4.6820	8.0506	.0140	.0140
1852.000	.6543	.0654	5.0780	1.4781	.0654	.0654
1853.000	.4562	.0836	4.6840	1.1815	.0836	.0836
1854.000	.6453	.0570	4.7350	1.7727	.0570	.0570
1855.000	.3076	.1495	3.3660	.7461	.1495	.1115
1856.000	.4424	.1173	3.1010	1.0089	.1173	.1173
1857.000	.7273	.0889	3.9640	1.2014	.0889	.0889
1858.000	.2516	.1787	2.5760	.7036	.1787	.1258
1859.000	.7705	.0445	3.1490	2.8378	.0445	.0445
1860.000	.7307	.0622	4.3370	1.6849	.0622	.0622
1861.000	.7780	.0578	4.4190	1.8073	.0578	.0578
1862.000	.3762	.1160	4.0900	.8880	.1160	.1030
1863.000	.7508	.0551	4.2270	1.9461	.0551	.0551
1864.000	.4965	.0963	4.1210	1.0809	.0963	.0963
1865.000	.6584	.0586	4.5590	1.7506	.0586	.0586
1866.000	.6685	.0559	4.5330	1.8484	.0559	.0559
1867.000	.7655	.0369	4.6050	2.8613	.0369	.0369
1868.000	1.0000	.0000	4.4100	1.0000	.0000	.0000
1869.000	1.0000	.0104	4.3130	11.5960	.0104	.0104
1870.000	1.0000	.0217	4.4250	5.1700	.0217	.0217
1871.000	.0775	.3492	9.0950	.1818	.0716	.0635
1872.000	.5671	.0000	2.4870	1.0000	.0000	.0000
1873.000	.3316	.1762	1.7320	.8690	.1762	.1531
1874.000	.3471	.1624	2.3070	.8221	.1624	.1335
1875.000	.3460	.1581	3.0270	.7385	.1581	.1167
1876.000	.2790	.1793	1.6540	.8723	.1793	.1564
1877.000	.3306	.1517	2.3160	.8820	.1517	.1338
1878.000	.4442	.1243	3.1360	.9390	.1243	.1167
1879.000	.4776	.1136	3.5300	.9749	.1136	.1107
1880.000	.3777	.1387	2.6360	.9099	.1387	.1262
1881.000	.4514	.1317	2.1590	1.0632	.1317	.1317
1882.000	.3559	.1494	2.4670	.8679	.1494	.1297
1883.000	.6108	.0906	4.2830	1.1280	.0906	.0906
1884.000	.5312	.0953	4.3170	1.0642	.0953	.0953
1885.000	.5748	.0940	4.0440	1.1155	.0940	.0940
1886.000	.2392	.2083	1.8450	.7018	.1919	.1462
1887.000	.1443	.2203	1.2150	.8140	.2203	.1794
1888.000	.3032	.1837	1.5670	.8714	.1837	.1601
1889.000	.1215	.2253	.9110	.9174	.2253	.2067
1890.000	.1207	.2368	1.1240	.7830	.2354	.1854
1891.000	.2185	.2028	1.2870	.8643	.2028	.1752
1892.000	.2556	.1799	1.7740	.8368	.1799	.1506
1893.000	.5272	.1347	2.1590	1.0354	.1347	.1347
1894.000	.4148	.1295	2.8190	.9448	.1295	.1224
1895.000	.0567	.2765	.7610	.8048	.2697	.2225
1896.000	.0567	.3032	.6640	.7800	.2748	.2365
1897.000	.0876	.2839	.7150	.8068	.2600	.2290
1898.000	.2125	.2413	.8660	.8729	.2154	.2106
1899.000	.3168	.2203	1.0890	.8584	.2038	.1891

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1900.000	.5785	.1584	1.8880	.9289	.1544	.1472
1901.000	.6885	.1631	5.7640	.5152	.1521	.0840
1902.000	.6666	.2103	6.8790	.3587	.1394	.0755
1903.000	.0540	.0000	25.0100	1.0000	.0000	.0000
1904.000	.0000	.0000	64.5040	1.0000	.0000	.0000
1905.000	.0000	.0000	54.6960	1.0000	.0000	.0000
1906.000	.2699	.0000	19.9020	1.0000	.0000	.0000
1907.000	.0277	.0000	36.9840	1.0000	.0000	.0000
1908.000	.6206	.0000	4.6650	1.0000	.0000	.0000
1909.000	.6162	.0964	1.4940	1.7790	.0964	.0964
1910.000	1.0000	.0000	1.8070	1.0000	.0000	.0000
1911.000	1.0000	.0000	1.1310	1.0000	.0000	.0000
1912.000	1.0000	.0148	1.4480	13.5426	.0148	.0148
1913.000	.2270	.1842	1.1640	1.0037	.1842	.1842
1914.000	.1096	.2375	.9770	.8336	.2239	.1980
1915.000	.0752	.2673	.8240	.7992	.2320	.2136
1916.000	.0703	.2562	.8100	.8436	.2347	.2161
1917.000	.0568	.2590	.7240	.8818	.2590	.2284
1918.000	.0572	.2570	.6790	.9180	.2570	.2359
1919.000	.0547	.2759	.6340	.8801	.2759	.2428
1920.000	.2007	.2317	.6620	1.0388	.2311	.2311
1921.000	.6553	.0845	3.3220	1.3722	.0845	.0845
1922.000	.1775	.1994	1.3030	.8700	.1994	.1735
1923.000	.4061	.1391	2.6840	.8924	.1391	.1242
1924.000	.6830	.0598	3.7460	1.8720	.0598	.0598
1925.000	.4987	.0893	4.4320	1.1177	.0893	.0893
1926.000	.9841	.0000	4.5950	1.0000	.0000	.0000
1927.000	.0776	.0000	10.1640	1.0000	.0000	.0000
1928.000	.1895	.0000	2.9790	1.0000	.0000	.0000
1929.000	.6242	.0814	1.8870	1.8917	.0814	.0814
1930.000	.2425	.1736	1.2280	1.0386	.1736	.1736
1931.000	.1818	.0919	2.6720	1.3945	.0510	.0510
1932.000	.7346	.0500	1.6320	3.4330	.0500	.0500
1933.000	.8459	.0177	2.7430	8.0858	.0177	.0177
1934.000	.1140	.0000	13.6330	1.0000	.0000	.0000
1935.000	.5010	.0000	4.4950	1.0000	.0000	.0000
1936.000	.8791	.0131	1.4220	15.4597	.0131	.0131
1937.000	.4828	.1283	1.3080	1.3913	.1283	.1283
1938.000	.4219	.1032	2.9700	1.1665	.1032	.1032
1939.000	.4218	.0935	3.1930	1.2511	.0935	.0935
1940.000	.6373	.0426	3.5570	2.7561	.0426	.0426
1941.000	.5552	.0619	3.8850	1.7673	.0619	.0619
1942.000	.6716	.0360	4.6130	2.9058	.0360	.0360
1943.000	.6424	.0485	5.2490	1.9744	.0485	.0485
1944.000	.3777	.1092	4.1690	.9261	.1092	.1011
1945.000	.3551	.1355	2.9450	.8732	.1355	.1183
1946.000	.3706	.1161	2.7210	1.0720	.1161	.1161
1947.000	.7083	.0827	5.6760	1.0686	.0827	.0827
1948.000	.5382	.0000	4.2060	1.0000	.0000	.0000
1949.000	.1483	.1964	1.5810	.7991	.1930	.1570

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
1950.000	.2236	.1855	1.4010	.9025	.1855	.1674
1951.000	.4501	.0976	2.8630	1.2584	.0976	.0976
1952.000	.9516	.0155	3.9630	7.7412	.0155	.0155
1953.000	.6727	.0507	5.6280	1.8139	.0507	.0507
1954.000	.7377	.0348	5.2420	2.8143	.0348	.0348
1955.000	.5814	.0683	4.9030	1.4119	.0683	.0683
1956.000	.3863	.1360	3.8360	.7607	.1360	.1035
1957.000	.2466	.2613	8.8670	.2480	.1666	.0648
1958.000	.0332	.0000	42.4280	1.0000	.0000	.0000
1959.000	.5092	.2006	3.4230	.5300	.1620	.1063
1960.000	.3277	.1360	2.1010	1.0268	.1360	.1360
1961.000	.3507	.1463	1.8520	1.0117	.1463	.1463
1962.000	.9178	.0215	3.7380	5.5942	.0215	.0215
1963.000	1.0000	.0330	3.4010	3.7033	.0330	.0330
1964.000	.5203	.1473	2.0380	.9566	.1473	.1409
1965.000	.5065	.1221	1.9790	1.1877	.1221	.1221
1966.000	.4853	.1272	4.6820	.7387	.1272	.0940
1967.000	.5170	.1060	3.5700	1.0292	.1060	.1060
1968.000	.1084	.2279	.7970	.9561	.2279	.2179
1969.000	.1717	.2500	.8580	.8340	.2120	.2085
1970.000	.3925	.1624	2.6880	.7490	.1576	.1217
1971.000	.6165	.1096	7.4630	.6858	.1096	.0752
1972.000	.6336	.0902	6.7190	.8910	.0902	.0804
1973.000	.6315	.0711	5.5840	1.2624	.0711	.0711
1974.000	.3790	.1407	4.9420	.6444	.1407	.0906
1975.000	.6703	.1101	7.5300	.6794	.1101	.0748
1976.000	.7308	.1161	7.7530	.6324	.1161	.0734
1977.000	1.0000	.0518	7.5960	1.5212	.0518	.0518
1978.000	.0024	.0000	23.9700	1.0000	.0000	.0000
1979.000	.0000	.0000	130.54	1.0000	.0000	.0000
1980.000	.0103	.0000	60.1880	1.0000	.0000	.0000
1981.000	.3843	.0000	3.6040	1.0000	.0000	.0000
1982.000	.4110	.1042	2.7420	1.1932	.1042	.1042
1983.000	.6250	.0236	3.1880	5.4485	.0236	.0236
1984.000	.5090	.0819	3.2370	1.4209	.0819	.0819
1985.000	.6635	.0519	4.4030	1.9886	.0519	.0519
1986.000	.8083	.0314	4.6270	3.3304	.0314	.0314
1987.000	.5093	.0921	6.1730	.9072	.0921	.0835
1988.000	.2472	.1539	9.4790	.4215	.0982	.0649
1989.000	.6935	.0000	4.9690	1.0000	.0000	.0000
1990.000	.4203	.1018	2.9040	1.1865	.1018	.1018
1991.000	.9108	.0218	3.7640	5.4739	.0218	.0218
1992.000	.8775	.0328	4.1550	3.3479	.0328	.0328
1993.000	.5104	.0931	4.3540	1.0662	.0931	.0931
1994.000	1.0000	.0623	3.7680	1.7641	.0623	.0623
1995.000	.6866	.1792	3.0370	.6314	.1792	.1132
1996.000	.7253	.1780	3.2850	.6114	.1780	.1088
1997.000	.9367	.0113	5.0480	9.5564	.0113	.0113
1998.000	1.0000	.0059	4.5590	1.0000	.0059	.0059
1999.000	.9472	.0113	6.2660	8.5656	.0113	.0113

DEPTH	VSHTOT	POR	HRESD	SW	SXO*PO	SW*POR
2000.000	1.0000	.0058	4.5690	1.0000	.0058	.0058
2001.000	1.0000	.0134	6.4650	7.0439	.0134	.0134
2002.000	.7191	.0514	5.3920	1.8121	.0514	.0514
2003.000	.3948	.1057	4.3790	.9266	.1057	.0979
2004.000	.5247	.0742	4.3540	1.3597	.0742	.0742
2005.000	.6577	.0426	4.4600	2.4354	.0426	.0426
2006.000	.6996	.0407	3.9730	2.7100	.0407	.0407
2007.000	.2943	.1467	3.0950	.7739	.1467	.1136
2008.000	.5204	.0822	4.1910	1.2402	.0822	.0822
2009.000	.7433	.0318	5.2880	3.0613	.0318	.0318
2010.000	.6865	.0415	6.1430	2.1368	.0415	.0415
2011.000	.9789	.0104	5.1890	10.2570	.0104	.0104
2012.000	.9229	.0174	4.8330	6.1219	.0174	.0174
2013.000	.8504	.0406	3.9750	2.7150	.0406	.0406
2014.000	.9547	.0275	3.8570	4.1847	.0275	.0275
2015.000	.8099	.0230	6.2110	4.0029	.0230	.0230
2016.000	.7817	.0208	6.3720	4.4092	.0208	.0208
2017.000	.6640	.0389	6.2700	2.2606	.0389	.0389
2018.000	1.0000	.0019	6.4160	1.0000	.0019	.0019
2019.000	1.0000	.0180	5.6390	5.4482	.0180	.0180
2020.000	1.0000	.0409	7.0130	2.0246	.0409	.0409
2021.000	.7135	.1050	8.1260	.6827	.1050	.0717
2022.000	.6590	.0937	7.3900	.8091	.0937	.0758
2023.000	.8364	.0512	6.7510	1.6216	.0512	.0512
2024.000	.8175	.0354	6.9020	2.3841	.0354	.0354
2025.000	1.0000	.0028	6.5070	1.0000	.0028	.0028
2026.000	.5157	.0827	6.7000	.9708	.0827	.0803
2027.000	.4586	.0970	7.2360	.7869	.0970	.0764
2028.000	1.0000	.0143	6.2170	6.6551	.0143	.0143
2029.000	1.0000	.0356	5.7260	2.5954	.0356	.0356
2030.000	.7561	.0687	6.6180	1.1928	.0687	.0687
2031.000	.6302	.0947	6.6240	.8440	.0947	.0799
2032.000	.8126	.0543	6.4930	1.5501	.0543	.0543
2033.000	.4580	.1094	5.9440	.7622	.1094	.0834
2034.000	.6080	.0707	6.6180	1.1554	.0707	.0707
2035.000	.5021	.0988	6.7380	.7989	.0988	.0789
2036.000	.4889	.0955	6.2040	.8634	.0955	.0824
2037.000	.4769	.1188	6.2460	.6804	.1188	.0808
2038.000	.0000	.0000	145.26	1.0000	.0000	.0000
2039.000	.0000	.0000	20000.	1.0000	.0000	.0000
2040.000	.0000	.0000	61.6630	1.0000	.0000	.0000
2041.000	.0000	.0000	20000.	1.0000	.0000	.0000
2042.000	.0000	.0000	20000.	1.0000	.0000	.0000
2043.000	.0838	.0000	126.84	1.0000	.0000	.0000
2044.000	.0734	.0000	22.5330	1.0000	.0000	.0000
2045.000	.5249	.0000	9.6590	1.0000	.0000	.0000
2046.000	.9447	.0261	6.4730	3.3961	.0261	.0261
2047.000	.6511	.0385	7.4390	2.0913	.0385	.0385
2048.000	.4001	.1191	6.7800	.6500	.1191	.0774
2049.000	.3570	.1242	7.0870	.6076	.1242	.0755

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
2050.000	.3936	.1286	8.1460	.5458	.1286	.0702
2051.000	.7128	.0509	5.3700	1.8214	.0509	.0509
2052.000	.1768	.2211	2.9370	.5075	.1902	.1122
2053.000	.0970	.2709	1.3510	.6014	.1998	.1629
2054.000	.2800	.2287	1.8460	.6171	.1797	.1412
2055.000	.2433	.2036	1.6680	.7356	.1878	.1498
2056.000	.2267	.2122	1.6240	.7129	.2046	.1513
2057.000	.0961	.1769	6.9840	.4179	.1769	.0739
2058.000	.1996	.0932	1.9090	1.5920	.0932	.0932
2059.000	.3533	.1935	3.1430	.5658	.1153	.1095
2060.000	.0829	.0000	30.9890	1.0000	.0000	.0000
2061.000	.4581	.1699	6.7750	.4429	.1489	.0753
2062.000	.4069	.1046	4.7780	.8886	.1046	.0929
2063.000	.4022	.1095	3.8860	.9380	.1095	.1027
2064.000	.5613	.0833	4.8750	1.1231	.0833	.0833
2065.000	.4509	.1091	4.5780	.8667	.1091	.0946
2066.000	.7939	.0333	5.5270	2.8292	.0333	.0333
2067.000	.7687	.0620	6.9050	1.2952	.0620	.0620
2068.000	.6915	.0714	6.9610	1.1092	.0714	.0714
2069.000	.6110	.0779	6.6200	1.0351	.0779	.0779
2070.000	.5999	.0857	7.2630	.8917	.0857	.0764
2071.000	.8511	.0419	7.4160	1.9059	.0419	.0419
2072.000	.5308	.1058	7.0670	.7201	.1058	.0762
2073.000	.4976	.1110	6.8600	.6942	.1110	.0771
2074.000	.7389	.0614	7.6160	1.2447	.0614	.0614
2075.000	.5313	.1045	7.7370	.6977	.1045	.0729
2076.000	.6684	.0729	7.9730	1.0108	.0729	.0729
2077.000	.5683	.1061	9.7960	.6094	.1010	.0647
2078.000	.1996	.0000	15.9690	1.0000	.0000	.0000
2079.000	.0732	.0000	47.9980	1.0000	.0000	.0000
2080.000	.3363	.0000	8.9840	1.0000	.0000	.0000
2081.000	.0051	.0000	89.1980	1.0000	.0000	.0000
2082.000	.7599	.0000	7.5290	1.0000	.0000	.0000
2083.000	.5691	.1847	7.2500	.3900	.1446	.0720
2084.000	.6476	.1398	5.7300	.5919	.1398	.0827
2085.000	.6346	.0858	6.3210	.9526	.0858	.0817
2086.000	.7569	.0473	6.4330	1.7908	.0473	.0473
2087.000	.5920	.0838	6.0140	1.0015	.0838	.0838
2088.000	.6280	.0640	5.7040	1.3729	.0640	.0640
2089.000	.5384	.0826	5.7890	1.0360	.0826	.0826
2090.000	.5632	.0610	6.3180	1.3738	.0610	.0610
2091.000	.7079	.0355	5.9020	2.5413	.0355	.0355
2092.000	.7021	.0422	6.1660	2.0624	.0422	.0422
2093.000	.6714	.0412	4.9390	2.3656	.0412	.0412
2094.000	.6700	.0438	4.9560	2.2123	.0438	.0438
2095.000	.6831	.0679	6.1240	1.2420	.0679	.0679
2096.000	.6311	.0810	6.9700	.9634	.0810	.0780
2097.000	.6226	.0632	6.4200	1.3108	.0632	.0632
2098.000	.5855	.0715	6.4550	1.1446	.0715	.0715
2099.000	.6077	.0821	6.5780	.9762	.0821	.0802

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
2100.000	.6417	.0783	6.4770	1.0356	.0783	.0783
2101.000	.5280	.1018	7.1260	.7439	.1018	.0758
2102.000	.2749	.0000	21.8920	1.0000	.0000	.0000
2103.000	.6463	.1817	7.5220	.3884	.1568	.0706
2104.000	.6533	.0618	6.0390	1.3829	.0618	.0618
2105.000	.6129	.0676	6.7710	1.1859	.0676	.0676
2106.000	.6510	.0549	6.1120	1.5586	.0549	.0549
2107.000	.3375	.1228	3.2410	.9012	.1228	.1107
2108.000	.3855	.1118	4.5580	.8407	.1118	.0940
2109.000	.5971	.0630	5.4530	1.4241	.0630	.0630
2110.000	.5822	.0741	7.6610	1.0080	.0741	.0741
2111.000	.5730	.0769	6.6250	1.0413	.0769	.0769
2112.000	.3398	.1294	5.5540	.6501	.1294	.0841
2113.000	.5509	.0724	4.3230	1.3760	.0724	.0724
2114.000	.7094	.0414	5.5950	2.2077	.0414	.0414
2115.000	.2147	.1634	2.3170	.7833	.1634	.1280
2116.000	.2088	.1688	2.1250	.7894	.1688	.1333
2117.000	.2341	.1791	1.5810	.8586	.1791	.1538
2118.000	.2534	.1847	1.6030	.8250	.1847	.1524
2119.000	.4939	.1266	2.7810	.9398	.1266	.1190
2120.000	.0705	.2298	1.0520	.8048	.2298	.1850
2121.000	.0444	.2504	.9360	.7780	.2504	.1948
2122.000	.0569	.2546	.9480	.7593	.2396	.1933
2123.000	.0753	.2415	1.0280	.7717	.2309	.1863
2124.000	.0936	.2518	1.0080	.7450	.2283	.1876
2125.000	.9109	.1249	8.2660	.5527	.1249	.0690
2126.000	.3672	.0855	13.8740	.6413	.0855	.0548
2127.000	.6854	.0515	7.5080	1.5026	.0515	.0515
2128.000	.7932	.0164	6.2070	5.6403	.0164	.0164
2129.000	.7128	.0304	7.5350	2.6442	.0304	.0304
2130.000	.9685	.0000	7.8470	1.0000	.0000	.0000
2131.000	.9530	.0000	7.2930	1.0000	.0000	.0000
2132.000	.7126	.0356	7.5160	2.2331	.0356	.0356
2133.000	.6980	.0356	7.3880	2.2508	.0356	.0356
2134.000	.6367	.0502	7.5440	1.5401	.0502	.0502
2135.000	.7465	.0328	7.3220	2.4653	.0328	.0328
2136.000	.9221	.0088	7.1530	1.0000	.0088	.0088
2137.000	.8766	.0173	6.6340	5.1423	.0173	.0173
2138.000	.5412	.1081	2.3240	1.2150	.1081	.1081
2139.000	.8892	.0269	7.7540	2.9677	.0269	.0269
2140.000	.9512	.0000	6.9520	1.0000	.0000	.0000
2141.000	.9715	.0000	5.9570	1.0000	.0000	.0000
2142.000	.8557	.0161	6.7440	5.5136	.0161	.0161
2143.000	1.0000	.0000	5.8730	1.0000	.0000	.0000
2144.000	.9517	.0000	4.4710	1.0000	.0000	.0000
2145.000	.8286	.0000	3.9740	1.0000	.0000	.0000
2146.000	.4576	.0908	4.0330	1.1103	.0908	.0908
2147.000	.2475	.1520	2.0130	.9037	.1520	.1373
2148.000	.8319	.0217	3.9730	5.2088	.0217	.0217
2149.000	.3519	.1589	1.8640	.8949	.1589	.1422

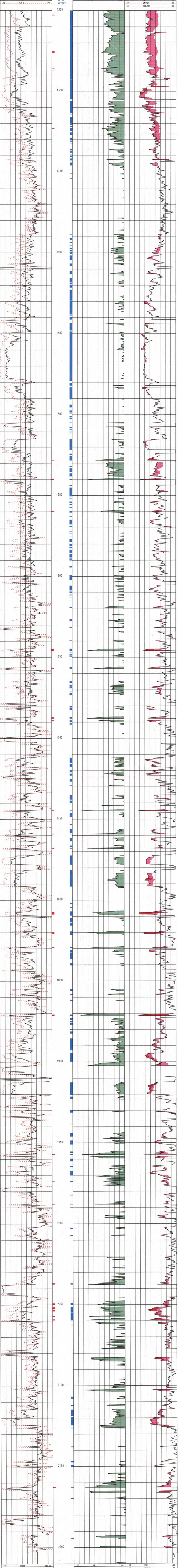
DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
2150.000	.1033	.2280	.8600	.8935	.2280	.2037
2151.000	.8998	.0153	7.4250	5.5621	.0153	.0153
2152.000	.6671	.0539	7.9980	1.3799	.0539	.0539
2153.000	.8127	.0250	8.2680	3.0958	.0250	.0250
2154.000	.5794	.0799	9.2660	.8399	.0799	.0671
2155.000	.6044	.0781	9.4590	.8521	.0781	.0665
2156.000	.8145	.0256	9.5830	2.8073	.0256	.0256
2157.000	.6527	.0754	8.6900	.9222	.0754	.0696
2158.000	.7871	.0555	9.2580	1.2433	.0555	.0555
2159.000	.6760	.0795	9.8050	.8201	.0795	.0652
2160.000	.5840	.1011	9.6120	.6396	.1011	.0647
2161.000	.6877	.0772	10.0820	.8346	.0772	.0644
2162.000	.4481	.1519	9.1330	.4236	.1283	.0643
2163.000	.0753	.0000	17.9430	1.0000	.0000	.0000
2164.000	.1302	.0000	27.1580	1.0000	.0000	.0000
2165.000	.6766	.0000	7.3540	1.0000	.0000	.0000
2166.000	.5291	.1893	8.8070	.3403	.1448	.0644
2167.000	.5201	.0744	7.7640	.9880	.0744	.0735
2168.000	.5365	.0733	6.7740	1.0755	.0733	.0733
2169.000	.4571	.0836	6.4560	.9566	.0836	.0799
2170.000	.4644	.0769	6.5200	1.0405	.0769	.0769
2171.000	.7137	.0406	8.0540	1.8612	.0406	.0406
2172.000	.6214	.0651	8.2970	1.1028	.0651	.0651
2173.000	.6330	.0572	8.6010	1.2442	.0572	.0572
2174.000	.9304	.0169	8.9230	4.5236	.0169	.0169
2175.000	.7901	.0409	10.4450	1.6195	.0409	.0409
2176.000	.6567	.0561	9.3560	1.2193	.0561	.0561
2177.000	.5619	.0625	8.5720	1.1320	.0625	.0625
2178.000	.6820	.0358	9.1420	1.9993	.0358	.0358
2179.000	.7582	.0271	10.4310	2.5171	.0271	.0271
2180.000	.6438	.0611	10.8140	1.0339	.0611	.0611
2181.000	.6662	.0421	9.8750	1.6117	.0421	.0421
2182.000	.3271	.0000	13.7330	1.0000	.0000	.0000
2183.000	.2006	.0000	46.3240	1.0000	.0000	.0000
2184.000	.0000	.0000	5590.0	1.0000	.0000	.0000
2185.000	.0561	.0000	20000.	1.0000	.0000	.0000
2186.000	.4211	.0000	8.3930	1.0000	.0000	.0000
2187.000	.7970	.0584	6.4990	1.3963	.0584	.0584
2188.000	.7677	.0491	4.9760	1.9254	.0491	.0491
2189.000	1.0000	.0158	4.5300	6.8135	.0158	.0158
2190.000	.9496	.0150	5.0980	6.8062	.0150	.0150
2191.000	1.0000	.0123	5.3230	8.2341	.0123	.0123
2192.000	.9772	.0000	6.9010	1.0000	.0000	.0000
2193.000	.5633	.1188	11.0140	.4996	.1188	.0594
2194.000	.4663	.0686	7.7860	1.0728	.0686	.0686
2195.000	.4511	.0719	7.3680	1.0482	.0719	.0719
2196.000	.4460	.0673	7.4280	1.1207	.0673	.0673
2197.000	.5524	.0436	7.4920	1.7809	.0436	.0436
2198.000	.6661	.0236	7.5700	3.4221	.0236	.0236
2199.000	.5789	.0423	7.9400	1.7853	.0423	.0423

DEPTH	VSHTOT	POR	HRES	SW	SXO*PO	SW*POR
2200.000	.5497	.1145	14.8640	.4470	.1145	.0512
2201.000	.5858	.0000	20000.	1.0000	.0000	.0000
2202.000	.5295	.0000	9802.4	1.0000	.0000	.0000
2203.000	.6739	.0000	7.3340	1.0000	.0000	.0000
2204.000	.6739	.0394	6.5880	2.1160	.0394	.0394
2205.000	.6739	.0282	6.1450	3.1371		
2206.000	.6739	.0357	6.5040	2.3608		
2207.000	.6739	.0427	5.4230	2.1350		
2208.000	.6739	.0427	6.1740	2.0006		
2209.000	.6739	.0648	8.4050	1.0957		
2210.000	.6739	.0648	12.7680	.8888		

296176

KING #1

5 cm



KING #1

APPENDIX 2
NET PAY LISTING

Well Name: KING #1

Vertical reference channel: DEPTH

Curve Type (#)	Cutoff value(s)	Method
Vshale (92)	.4000	LT
(32)	.6000	LT
Porosity (149)	.0800	GT

SUMMATION STATISTICS

TOP INTERVAL	(F)	4101.0488	
TOP INTERVAL	(M)	1250.0000	
BASE INTERVAL	(F)	7250.6543	
BASE INTERVAL	(M)	2210.0000	
GROSS THICKNESS	(F)	3149.9333	
GROSS THICKNESS	(M)	960.1000	
NET SAND THK	(F)	1172.2419	
NET SAND THK	(M)	357.2994	
SAND/GROSS RATIO		.3721	
NET PAY THK	(F)	55.4463	
NET PAY THK	(M)	16.9000	
NET/GROSS RATIO		.0176	
PAY ARITH AVG KSWIS		.0000	
PAY GEOM AVG KSWIS		.0000	
PAY HARM AVG KSWIS		.0000	
LOWER VSHALE CUTOFF		.4000	
UPPER VSHALE CUTOFF		.0000	
RR ARITH AVG VSHALE		.2254	
PAY ARITH AVG VSHALE		.1861	
LOWER Sw CUTOFF		.6000	
UPPER Sw CUTOFF		.0000	
RR ARITH AVG Sw		.8811	
Y ARITH AVG Sw		.4588	
PAY HC THK	(F)	7.8028	
PAY HC THK	(M)	2.3783	
SW (phi-wt)		.4485	
LOWER POROSITY CUTOFF		.0800	
UPPER POROSITY CUTOFF		.0000	
RR ARITH AVG POROSITY		.2291	
PAY ARITH AVG POROSITY		.2552	
RR POROSITY THK	(F)	268.5192	
RR POROSITY THK	(M)	81.8447	
PAY POROSITY THK	(F)	14.1485	
PAY POROSITY THK	(M)	4.3125	

NET PAY DEPTH LISTING FOR THE INTERVAL 1250.0000 to 2210.0000

Depth	Vshale	Sw	Porosity	
1252.2001	.1963	.5823	.2976	
1252.3000	.2190	.5943	.2919	
Averages	.2076	.5883	.2947	
Interval Thickness =		.2001	Porosity Thickness =	.0590
1253.0000	.2096	.5932	.2943	
Averages	.2096	.5932	.2943	
Interval Thickness =		.1000	Porosity Thickness =	.0294
1275.3000	.2206	.5857	.3066	
1275.4000	.2186	.5888	.3072	
1275.5000	.2197	.5923	.3069	
1275.6000	.2196	.5929	.3069	
1275.7001	.2131	.5880	.3086	
1275.8000	.2176	.5865	.3074	
1275.9000	.1991	.5713	.3122	
1276.0000	.1940	.5636	.3135	
1276.1000	.1847	.5569	.3159	
1276.2001	.1958	.5630	.3130	
1276.3000	.1961	.5653	.3130	

Averages	.2072	.5777	.3101	
Interval Thickness =		1.1000	Porosity Thickness =	.3411
1285.6000	.1440	.5959	.2182	
1285.7001	.1417	.5538	.2187	
1285.8000	.1523	.5531	.2161	
1285.9000	.1650	.5837	.2131	
Averages	.1507	.5716	.2165	
Interval Thickness =		.4000	Porosity Thickness =	.0866
1287.4000	.2198	.5977	.2917	
Averages	.2198	.5977	.2917	
Interval Thickness =		.1000	Porosity Thickness =	.0292
1322.9000	.2986	.5778	.2579	
1323.0000	.2856	.5698	.2613	
1323.1000	.3128	.5957	.2543	
Averages	.2990	.5811	.2578	
Interval Thickness =		.2999	Porosity Thickness =	.0773
1527.9000	.2231	.5808	.2711	
1528.0000	.2089	.5242	.2744	
1528.1000	.1960	.4773	.2773	
1528.2001	.2046	.4541	.2753	
Averages	.2082	.5091	.2745	
Interval Thickness =		.4000	Porosity Thickness =	.1098
1539.8000	.3243	.5084	.2720	
1539.9000	.2449	.4638	.2919	
1540.0000	.1548	.4103	.3148	
1540.1000	.0902	.3623	.3315	
1540.2001	.0589	.3230	.3397	
1540.3000	.0389	.2900	.3450	
Averages	.1520	.3929	.3158	
Interval Thickness =		.6000	Porosity Thickness =	.1895
1559.6000	.3034	.5847	.2247	
1559.7001	.2719	.5558	.2326	
1559.8000	.2879	.5638	.2286	
1559.9000	.2949	.5785	.2269	
Averages	.2895	.5707	.2282	
Interval Thickness =		.4000	Porosity Thickness =	.0913
1644.9000	.2254	.5117	.2688	
1645.0000	.2141	.5183	.2713	
1645.1000	.1902	.5141	.2768	
1645.2001	.1626	.5030	.2830	
1645.3000	.1332	.4853	.2897	
1645.4000	.0991	.4588	.2973	
1645.5000	.0676	.4256	.3044	
1645.6000	.0461	.3865	.3093	
1645.7001	.0420	.3469	.3102	
1645.8000	.0430	.3104	.3100	
1645.9000	.0668	.2939	.3046	
Averages	.1173	.4322	.2932	
Interval Thickness =		1.1000	Porosity Thickness =	.3225
1656.6000	.0602	.5779	.2558	
1656.7001	.0263	.5296	.2641	
1656.8000	.0104	.4773	.2681	
1656.9000	.0027	.4158	.2700	
Averages	.0249	.5001	.2645	
Interval Thickness =		.4000	Porosity Thickness =	.1058
1687.0000	.2861	.5425	.1981	
1687.1000	.2296	.5084	.2120	
1687.2001	.1519	.4658	.2313	
1687.3000	.1037	.4380	.2434	
1687.4000	.0647	.4065	.2532	
1687.5000	.0327	.3670	.2614	
1687.6000	.0143	.3235	.2661	
1687.7001	.0077	.2819	.2678	
Averages	.1113	.4167	.2417	

Interval Thickness =	.8000	Porosity Thickness =	.1934
1688.9000	.2959	.5099	.2603
1689.0000	.2583	.5460	.2689
1689.1000	.2380	.5889	.2735
Averages	.2640	.5483	.2676
Interval Thickness =	.2999	Porosity Thickness =	.0802
1744.6000	.2101	.2657	.3175
1744.7001	.1017	.2150	.3465
1744.8000	.0499	.1765	.3607
1744.9000	.0408	.1587	.3633
Averages	.1006	.2040	.3470
Interval Thickness =	.4000	Porosity Thickness =	.1388
1759.0000	.3466	.5352	.1908
1759.1000	.2419	.4204	.2162
1759.2001	.1652	.3416	.2349
Averages	.2512	.4324	.2139
Interval Thickness =	.3000	Porosity Thickness =	.0642
1767.7001	.2911	.5894	.1883
1767.8000	.1796	.4573	.2154
1767.9000	.1182	.3701	.2305
1768.0000	.0577	.2930	.2454
Averages	.1616	.4275	.2199
Interval Thickness =	.4000	Porosity Thickness =	.0880
1807.3000	.1716	.5805	.2219
1807.4000	.1301	.5381	.2320
1807.5000	.1040	.5275	.2383
1807.6000	.0882	.5454	.2422
1807.7001	.0892	.3876	.3565
1807.8000	.0926	.4191	.3558
1807.9000	.1030	.4507	.3534
1808.0000	.1102	.4766	.3518
1808.1000	.1102	.4944	.3518
1808.2001	.1053	.5046	.3529
1808.3000	.1106	.5137	.3517
1808.4000	.1039	.5149	.3532
1808.5000	.1096	.5176	.3519
1808.6000	.1121	.5165	.3514
1808.7001	.1142	.5127	.3509
Averages	.1103	.5000	.3211
Interval Thickness =	1.5000	Porosity Thickness =	.4816
1819.8000	.2375	.2958	.3250
1819.9000	.2832	.3192	.3146
1820.0000	.3199	.3552	.3062
1820.1000	.3193	.3868	.3064
1820.2001	.3066	.4110	.3092
1820.3000	.3538	.4490	.2984
1820.4000	.3717	.4722	.2943
1820.5000	.3779	.4874	.2929
1820.6000	.3590	.4898	.2973
1820.7001	.3337	.4866	.3031
1820.8000	.2903	.4732	.3130
Averages	.3230	.4206	.3055
Interval Thickness =	1.1000	Porosity Thickness =	.3360
1829.2001	.2146	.5165	.1835
1829.3000	.1331	.4447	.2035
1829.4000	.0709	.3913	.2189
1829.5000	.0347	.3580	.2279
1829.6000	.0262	.3503	.2300
Averages	.0959	.4122	.2127
Interval Thickness =	.5000	Porosity Thickness =	.1064
1870.7001	.2900	.2791	.2941
1870.8000	.2102	.2431	.3145
1870.9000	.1238	.2066	.3370
1871.0000	.0775	.1818	.3492

1871.1000	.0426	.1630	.3586		
1871.2001	.0274	.1555	.3627		
1871.3000	.0265	.1601	.3629		
1871.4000	.0413	.1754	.3589		
Averages	.1049	.1956	.3422		
Interval Thickness =		.8000	Porosity Thickness =		.2738
1957.0000	.2466	.2480	.2613		
1957.1000	.1284	.2060	.2891		
1957.2001	.0527	.1744	.3079		
Averages	.1426	.2095	.2861		
Interval Thickness =		.3000	Porosity Thickness =		.0858
1973.8000	.3089	.5888	.1575		
Averages	.3089	.5888	.1575		
Interval Thickness =		.1000	Porosity Thickness =		.0157
1987.9000	.3333	.5214	.1333		
1988.0000	.2472	.4215	.1539		
Averages	.2903	.4714	.1436		
Interval Thickness =		.2000	Porosity Thickness =		.0287
2036.5000	.3328	.5042	.1533		
2036.6000	.3001	.4794	.1612		
2036.7001	.2955	.4792	.1623		
2036.8000	.3324	.5131	.1534		
Averages	.3152	.4940	.1576		
Interval Thickness =		.4000	Porosity Thickness =		.0630
2037.4000	.3406	.4333	.1514		
2037.5000	.2016	.2908	.1852		
Averages	.2711	.3621	.1683		
Interval Thickness =		.2000	Porosity Thickness =		.0336
2049.1001	.3441	.5831	.1273		
2049.2000	.3444	.5765	.1272		
2049.3000	.3514	.5803	.1256		
2049.4001	.3459	.5720	.1269		
2049.5000	.3253	.5486	.1318		
2049.6001	.3156	.5371	.1341		
2049.7000	.3078	.4749	.1493		
2049.8000	.3161	.4763	.1473		
2049.9001	.3566	.5074	.1375		
2050.0000	.3936	.5458	.1286		
Averages	.3401	.5402	.1336		
Interval Thickness =		1.0000	Porosity Thickness =		.1336
2051.5000	.2739	.5596	.1571		
2051.6001	.2179	.5341	.1706		
2051.7000	.1852	.5357	.1785		
2051.8000	.1575	.5455	.1853		
2051.9001	.1755	.4780	.2214		
2052.0000	.1768	.5075	.2211		
2052.1001	.1641	.5304	.2240		
2052.2000	.1693	.5662	.2229		
2052.3000	.1532	.5906	.2265		
Averages	.1859	.5386	.2008		
Interval Thickness =		.8999	Porosity Thickness =		.1807
2053.1001	.0880	.5939	.2730		
2053.2000	.0829	.5873	.2742		
2053.3000	.0838	.5830	.2739		
2053.4001	.0880	.5786	.2730		
2053.5000	.0977	.5753	.2708		
2053.6001	.1177	.5755	.2662		
2053.7000	.1381	.5740	.2615		
2053.8000	.1699	.5771	.2542		
2053.9001	.2158	.5887	.2436		
Averages	.1202	.5815	.2656		
Interval Thickness =		.9001	Porosity Thickness =		.2391
2056.9001	.0984	.5250	.1764		
2057.0000	.0961	.4179	.1769		

2057.1001	.1017	.3390	.1756	
2057.2000	.1218	.3106	.1710	
2057.3000	.1408	.3296	.1665	
Averages	.1117	.3844	.1733	
Interval Thickness =		.5000	Porosity Thickness =	.0867
2059.0000	.3533	.5658	.1935	
2059.1001	.2708	.4586	.2135	
2059.2000	.1977	.3780	.2314	
2059.3000	.1389	.3220	.2459	
2059.4001	.0830	.2810	.2597	
2059.5000	.0453	.2494	.2692	
Averages	.1815	.3758	.2355	
Interval Thickness =		.5999	Porosity Thickness =	.1413
2126.1001	.3070	.5409	.0986	
2126.2000	.2977	.5457	.1007	
Averages	.3023	.5433	.0996	
Interval Thickness =		.2000	Porosity Thickness =	.0199
2162.6001	.3908	.3809	.1657	
2162.7000	.2805	.3156	.1927	
2162.8000	.1953	.2672	.2139	
2162.9001	.1296	.2238	.2306	
Averages	.2490	.2969	.2007	
Interval Thickness =		.4001	Porosity Thickness =	.0803

5 SFT DATA

MRC9211051-ACM

5.1 Pressure Data



SAGASCO RESOURCES LIMITED

RUN 1

RFT - PRESSURE TEST REPORT SHEET

WELL NAME: KING 1	PERMIT: T/18P	OBSERVER: JOE PARVAR	DATE: 20 NOVEMBER 1992
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TEST NO	FILE NO	DEPTH	SEAT Y N		HYDROSTATIC PRESSURE INITIAL FINAL		FORMATION PRESSURE (PSIA)		PERMEABLE TIGHT	SAMPLE Y N		FORMATION/REMARKS
							QUARTZ GAUGE	STRAIN GAUGE				
1		1399.0	✓		2356	2356	2197		T		✓	Super charged
2		1403.25	✓		2363.5	2363.5	2052		P		✓	Excellent
3		1407.5	✓		2370.8	2371	2062		P		✓	Good
4		1410.25	✓		2375.6	2378.5	2062		P		✓	Excellent
5		1411.5	✓		2377.6	2377.3	2063.3		P		✓	Excellent
6		1416.1	✓		2384.3	2384.8	2072.6		P		✓	Good
7		1420.5	✓		2392	2392	2076		P		✓	Excellent
8		1423.0	✓		2396.6	2396	2079		P		✓	Excellent
9		1427.0	✓		2403	2403	2084.3		P		✓	Excellent
10		1431.0	✓		2410.3	2410	2090.3		P		✓	Excellent
11		1436.25	✓		2418.7	2418.5	2097.7		P		✓	Excellent
12		1444.0	✓		2431.5	2431.5	2109.5		P		✓	Good
13		1450.5	✓		2442.4	2442.0	2118.2		P		✓	Excellent

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SAGASCO RESOURCES LIMITED

RUN 1

TEST NO	FILE NO	DEPTH	SEAT Y N		HYDROSTATIC PRESSURE INITIAL FINAL		FORMATION PRESSURE (PSIA)		PERMEABLE TIGHT	SAMPLE		FORMATION/REMARKS
							QUARTZ GAUGE	STRAIN GAUGE		Y	N	
14		1456.0	✓		2451	2451	2125.6		P		✓	Very good
15		1459.0	✓		2456	2456	2130.0		P		✓	Excellent
16		1463.0	✓		2462	2462	2137.5		P		✓	Excellent
17		1466.0	✓		2467	2467	2141.8		P		✓	Very good
18		1469.0	✓		2472	2471.7	2144.0		P		✓	Very good
19		1472.0	✓		2477	2476.5	2148.6		P		✓	Excellent
20		1475.0	✓		2481.5	2481	2152.9		P		✓	Excellent
21		1484.0	✓		2496.0	2496	2166.0		P		✓	Excellent
22		1485.25	✓		2498.0	2498	2167.5		P		✓	Excellent
23		1486.0	✓		2499.0	2499	2168.5		P		✓	Excellent



SAGASCO RESOURCES LIMITED

RUN 2

RFT - PRESSURE TEST REPORT SHEET

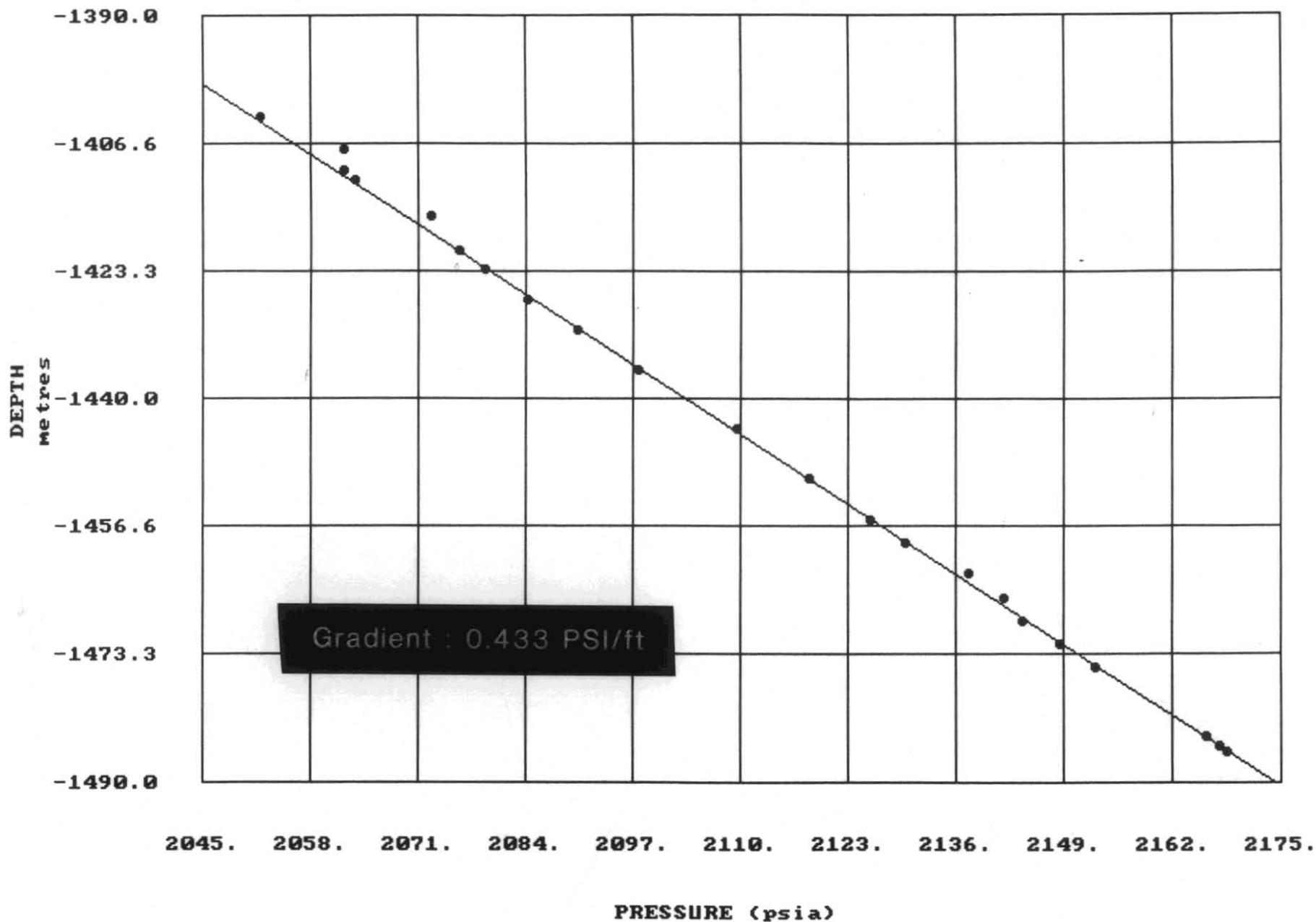
WELL NAME: KING 1	PERMIT: T/18P	OBSERVER: Joe Parvar	DATE: 20 November 1992
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TEST NO	FILE NO	DEPTH	SEAT		HYDROSTATIC PRESSURE		FORMATION PRESSURE (PSIA)		PERMEABLE TIGHT	SAMPLE		FORMATION/REMARKS
			Y	N	INITIAL	FINAL	QUARTZ GAUGE	STRAIN GAUGE		Y	N	
1		1713	✓		2868	2869		2497	P		✓	Excellent
2		1785	✓		2988	2988		2602.5	P		✓	Excellent
3		1915	✓		3199.5	3199.5		2788.5	P		✓	Excellent
4		2188	✓		3537	3537		3079.5	P		✓	Excellent
5		2053	✓		3423	2423		2983.5	P	✓		Excellent

KING #1 PLOT

1399-1486 m RKB

5 cm

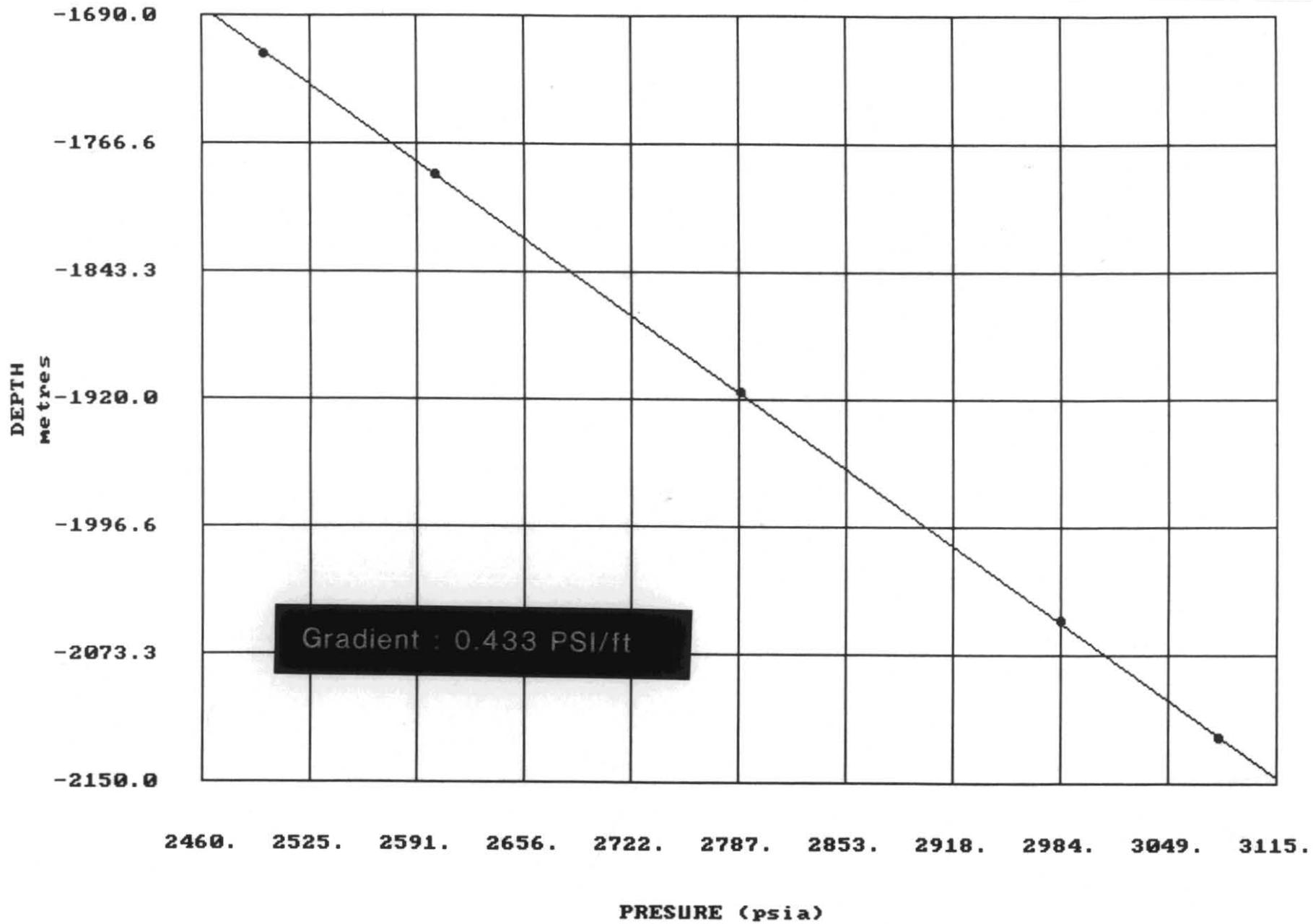


296189

KING #1 S PLOT

1713, 1785, 1915, 2053, 2122 m RKB

5 cm

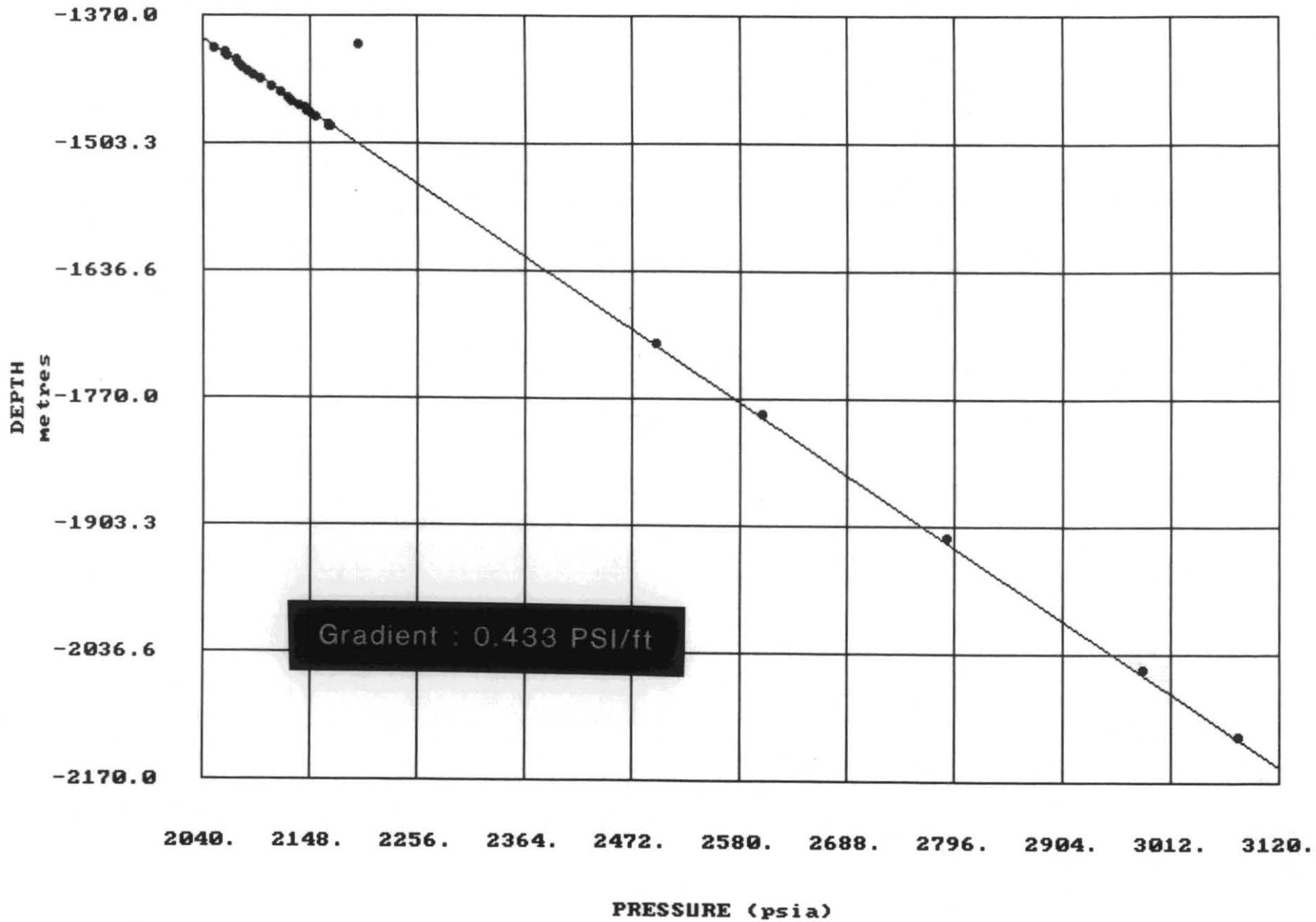


296190

KING #1 I PLOT

1399- 2122 m RKB

5 cm



296191

5.2 Fluids Data

RFT-GAS AND LIQUID SAMPLE REPORT SHEET

Date 20 November 1992

Observer J Reeve

Depth 1436.25

Well: KING 1 RFT Run No: 2 Setting No: 1

Performance: Valid

Failure Reason for Failure _____

Chamber Vol: 18.9 litre (5 gallon) Choke Size 2560 lohm, Snorkel 0.859" and sand screen

9.8 litre (2.6 gallon) Water Cushion Yes No

4.5 litre (3 x 1.2 gallon) Segregated Yes No

Pressure Gauge: Hewlett Packard
Strain Gauge Pressures are Temperature Yes No
corrected

Temperature at Sampling Point 62°C Measured Calculated

Times: Tool Set 14.00 Sampling Chamber Opened 1407 (Time to Fill 8 min)
Chamber Full 14.15

Pressures Initial Hydrostatic P IHP = 2409 psig = 16608 kPa = 11.56 kPa/m
Initial Shut-in P ISIP = 2095.5 psig = 14446 kPa
Initial Flowing P IFP = 1948.0 psig = 13429 kPa
Final Flowing P FFP = 1948.0 psig = 13429 kPa
Final Shut-in P FSIP = 2095 psig = 14443 kPa = 10.21 kPa/m
Extrapolated Shut-in P = _____ psig = _____ kPa = _____ kPa/m
Final Hydrostatic P FHP = 2410 psig = 16615 kPa

Recovery Surface Pressure (Cylinder) = 0 psi = - kPa

Total Gas 0 Cu Ft 0 m3 GOR -:1

Chromatographic Analysis (in ppm)

Sample	C ₁	C ₂	C ₃	C ₄	C ₅	CO ₂ /H ₂ S
1	-	---	---	---	---	---
2	-	---	---	---	---	---
3	-	---	---	---	---	---

Oil Condensate _____ cc _____ API at _____ °C

Colour _____ Flour Colour _____

Water 9.8 L Colour Cloudy Mud _____ L

Colour _____

Filtrate _____ L Colour _____ Mud/Filtrate _____ L

Colour _____

Recovered Water

Mud Properties - Last Circulation

R_{rec} 0.385 at 23.55 °C R_{mf} 0.945 at 18 °C

R_m 1.018 at 19 °C

Calculated Cl NaCl 15500 ppm eq NaCl 7000 ppm

Titrated Cl 13000 ppm 3500 ppm

Tracer NO₃ 50 ppm 250 ppm

pH 8.0 9.5

Wt ~1020 kg/m3 1147 kg/m3

Samples and Shipping 2 x 1 litre water.

Remarks Tool retract 14.25. Line to Petro quartz plugged. Pressures are in psig from strain gauge. Flowing pressure to the 5 gallon chamber is too high and cannot be choked back more. This causes the shear pin to the 2.6 gallon chambers to shear before the 5 gallon fills.

SAGASCO RESOURCES LIMITED

296194

RFT-GAS AND LIQUID SAMPLE REPORT SHEET

Date 20 November 1992

Observer J Reeve

Depth 1460.0

Well: KING 1 RFT Run No: 3 Setting No: 1

Performance: Valid

Failure Reason for Failure _____

Chamber Vol: 18.9 litre (5 gallon) Choke Size 2560 lohm, Snorkel 0.859" and sand screen

9.8 litre (2.6 gallon) Water Cushion Yes No

4.5 litre (3 x 1.2 gallon) Segregated Yes No

Pressure Gauge: Hewlett Packard
Strain Gauge Pressures are Temperature corrected Yes No

Temperature at Sampling Point 64.3°C Measured Calculated

Times: Tool Set 18.42 Sampling Chamber Opened 18.46 (Time to Fill 8 min)
Chamber Full 18.54

Pressures	Initial Hydrostatic P	IHP	=	<u>2451</u>	psig =	<u>16897</u>	kPa =	<u>11.57</u>	kPa/m
	Initial Shut-in P	ISIP	=	<u>2128.5</u>	psig =	<u>14674</u>	kPa		
	Initial Flowing P	IFP	=	<u>2071</u>	psig =	<u>14277</u>	kPa		
	Final Flowing P	FFP	=	<u>2076</u>	psig =	<u>14312</u>	kPa		
	Final Shut-in P	FSIP	=	<u>2130</u>	psig =	<u>14684</u>	kPa =	<u>10.21</u>	kPa/m
	Extrapolated Shut-in P		=		psig =		kPa =		kPa/m
	Final Hydrostatic P	FHP	=	<u>2452.0</u>	psig =	<u>16904</u>	kPa		

Recovery Surface Pressure (Cylinder) = 350 psi = 2413 kPa

Total Gas ~0.5 Cu Ft 0.014 m3 GOR -:1

Chromatographic Analysis (in ppm)

Sample	C ₁	C ₂	C ₃	C ₄	C ₅	CO ₂ /H ₂ S
1	<u>2364</u>	<u>83</u>	<u>0</u>	<u>0</u>	<u>49</u>	<u>-</u>
2	<u>1076</u>	<u>32</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
3	<u>42000</u>	<u>3900</u>	<u>450</u>	<u>-</u>	<u>-</u>	<u>-</u>

Oil Condensate _____ cc _____ API at _____ °C

Colour _____ Flour Colour _____

Water 9.8 L Colour Cloudy Mud _____ L

Colour _____

Filtrate _____ L Colour _____ Mud/Filtrate _____ L

Colour _____

Recovered Water

Mud Properties - Last Circulation

R_{wc} 0.24 at 22.7 °C

R_{mf} 0.945 at 18 °C

R_m 1.018 at 19 °C

Calculated Cl Na Cl 26000 ppm eq NaCl 7000 ppm

Titrated Cl _____ ppm _____ ppm

Tracer NO₃ 25 ppm _____ ppm

pH 7 _____ 9.5

Wt ~1020 kg/m3 _____ 1147 kg/m3

Samples and Shipping 2 x 1 litre water. 1 gas bomb at atmosphere.

Remarks Tool retracted 19.00 Petro quartz gauge failed test prior to taking pre test. Shear pin again sheared before 5 gallon filled. This was believed to be again due to insufficient choking to the chamber.

SAGASCO RESOURCES LIMITED

296195

RFT-GAS AND LIQUID SAMPLE REPORT SHEET

Date 20 November 1992

Observer J Reeve

Well KING 1

RFT Run No 4

Setting No: 5

Depth 2053

Performance: Valid

Failure Reason for Failure _____

Chamber Vol: 18.9 litre (5 gallon) Choke Size _____

9.8 litre (2.6 gallon) Water Cushion Yes No

4.5 litre (3 x 1.2 gallon) Segregated Yes No

Pressure Gauge: Hewlett Packard
Strain Gauge Pressures are Temperature corrected Yes No

Temperature at Sampling Point _____ Measured Calculated

Times: Tool Set 00.13 Sampling Chamber Opened 00.19 (Time to Fill 18 min)
Chamber Full 00.37

Pressures Initial Hydrostatic P IHP = 3423 psig = 23598 kPa = _____ kPa/m
Initial Shut-in P ISIP = 2983.5 psig = 20568 kPa
Initial Flowing P IFP = 2608 psig = 17979 kPa
Final Flowing P FFP = 2541 psig = 17517 kPa
Final Shut-in P FSIP = 2983.5 psig = 20568 kPa = _____ kPa/m
Extrapolated Shut-in P _____ psig = _____ kPa = _____ kPa/m
Final Hydrostatic P FHP = 3425 psig = 23612 kPa

Recovery Surface Pressure (Cylinder) = _____ 800 psi = 5472 kPa

Total Gas ~2.5 Cu Ft _____ m3 GOR _____:1

Chromatographic Analysis (in ppm)

Sample	C ₁	C ₂	C ₃	C ₄	C ₅	CO ₂ /H ₂ S
1	<u>34224</u>	<u>1565</u>	<u>288</u>	<u>1774</u>	---	<u>73%/0</u>
2	---	---	---	---	---	---
3	---	---	---	---	---	---

Oil Condensate _____ cc _____ API at _____ °C

Colour _____ Flour Colour _____

Water 17.5 L Colour Muddy Mud _____ L

Colour _____

Filtrate _____ L Colour _____ Mud/Filtrate _____ L

Colour _____

Recovered Water

Mud Properties - Last Circulation

R_{wc} 0.21 at 24.16 °C

R_{mf} 0.945 at 18 °C

R_m 1.018 at 19 °C

Calculated Cl eq NaCl 29500 ppm eq NaCl 7000 ppm

Titrated Cl 21000 ppm 3500 ppm

Tracer NO₃ 0 ppm 250 ppm

pH 7.0 9.5

Wt _____ kg/m3 1147 kg/m3

Samples and Shipping 3 x 1 litre water. 1 x gas bomb at atmosphere pressure.

Remarks Gas volume not recorded due to an 'O' ring failing during the recovery process. Back up quartz gauge also failed so all pressure are psig from the strain gauge. Water had a slight oily scum with very dull yellow brown fluorescence.

MRC9211051-ACM

6 VSP DATA

BOREHOLE SEISMIC SURVEY**FIELD REPORT****WELL: KING #1****SAGASCO RESOURCES LTD**

SAGASCO RESOURCES LTD

Seismograph Service

Survey Date:	21st November 1992
Job Reference:	
Country:	AUSTRALIA
Well Location East:	372835.53m
Well Location North:	5616674.27m
Rig Name:	OCEAN EPOCH
Rig Heading:	261 degrees
Survey Datum:	MSL
Well Reference Level:	RT
Reference Level Elevation:	22.3m above MSL
Water Velocity:	1524m/s
Well Deviation:	2 degrees
Casing Details:	9 5/8" to 1237m
Liner Details:	N/A
Wireline Contractor:	HLS
Observer:	BUCKLEY/TAN
Client Representative:	DOUGLAS KNOWLES

Downhole Geophone 1:

Geophone Description:	GCH100-3D
Geophone Serial No:	118
Geophone Pregain:	46.6 dB
Depth Offset from Zero:	0m

Surface Equipment:

Acquisition System:	PDAQ-1
Sample Interval:	1000 us
Geo Channel Record Length:	5000 samples
Ref Channel Record Length:	1000 samples
Aux Channel Record Length:	1000 samples
Channel 1:	Geo1 VZ
Channel 2:	Geo1 HX
Channel 3:	Geo1 HY
Channel 4:	Ref
Channel 5:	Off
Channel 6:	Off
Channel 7:	Off
Channel 8:	Off

Source 1: (Marine)

Observer:	BUCKLEY
Source:	BOLT 1500C
Monitor:	MP8D
Source Offset:	47m
Source Bearing:	317 degrees
Source Control System:	DAQ
External Delay:	0ms
Air Supply:	RUCKER SYSTEM
Fire Control:	INTERNAL
Trip Source Channel:	4
Source Reference Channel:	4
Source Depth below Surface:	5m
Monitor Depth below Surface:	3.5m
Water Depth:	72.5m

Seismograph Service

Delta-t ITTEST Release 5.05

Date recorded: 16:11:1992

Time recorded: 14:35

Summary of results:

Chan No	Calib Error	Pregain Error	Distortion 0dB	Distortion -24dB	Delay 30Hz	Dynamic Range	DC Offset	Chan Status
1:	0.02%	0.04%	0.03%	0.05%	2.3ms	112dB	-11uV	PASS
2:	0.01%	0.12%	0.03%	0.05%	2.3ms	114dB	2uV	PASS
3:	0.00%	0.02%	0.04%	0.05%	2.3ms	111dB	-6uV	PASS
4:	0.01%	0.08%	0.05%	0.05%	2.3ms	113dB	6uV	PASS
5:	0.03%	0.11%	0.06%	0.05%	2.3ms	111dB	-5uV	PASS
6:	0.03%	0.16%	0.03%	0.05%	2.3ms	113dB	-10uV	PASS
7:	0.00%	0.03%	0.02%	0.05%	2.3ms	113dB	-9uV	PASS
8:	0.05%	0.12%	0.02%	0.05%	2.3ms	113dB	-9uV	PASS

Specifications:

Gain Calibration error : less than 0.1%
 Pregain Calibration error : less than 0.2%
 Total Harmonic Distortion : better than 0.07%
 Channel Delay at 30Hz : 2.3ms within 0.1ms
 Dynamic Range : greater than 102dB
 DC offset : less than 100uV

Note: DC offset is self calibrating..

SAGASCO RESOURCES LTD

Seismograph Service

Beta-t OROSYS Release 5.05

Survey date: 21st November 1992

Reference level: RT
 Ref. elevation: 22.3m
 Source depth: 5m
 Surface elevation: 0m

Survey datum: MSL
 Source offset: 47.0m
 Monitor depth: 3.5m
 Water velocity: 1524m/s

MD = Geophone measured depth below RT
 TVDSD = Geophone vertical depth below MSL
 Tpick = Reference trough to geophone trough
 Tt = Tpick + external reference delay(0ms) + source to monitor delay
 SGO = Source to geophone lateral offset
 Tv = Vertical time from source to geophone
 Ts = Static correction from source to MSL
 Tcorr = Vertical time from MSL to geophone (Tv+Ts)
 Vave = Average velocity from MSL to geophone
 Vint = Interval velocity between indicated depths

Level No	MD (m)	TVDSD (m)	Tpick (ms)	Tt (ms)	SGO (m)	Tv (ms)	Ts (ms)	Tcorr (ms)	Vave (m/s)	Vint (m/s)
										1826
62	300.0	277.7	150.0	151.0	47.0	148.8	3.3	152.1	1826	-----
61	500.0	477.7	249.0	250.0	47.0	248.8	3.3	252.0	1895	
2	500.0	477.7	247.0	248.0	47.0	246.8	3.3	250.0	1910	
										1991
60	525.0	502.7	262.0	263.0	47.0	261.8	3.3	265.1	1896	-----
59	550.0	527.7	275.0	276.0	47.0	274.9	3.3	278.2	1897	
58	575.0	552.7	288.0	289.0	47.0	287.9	3.3	291.2	1898	
57	600.0	577.7	301.0	302.0	47.0	301.0	3.3	304.3	1899	
56	625.0	602.7	314.0	315.0	47.0	314.0	3.3	317.3	1899	
										1946
55	650.0	627.7	326.0	327.0	47.0	326.1	3.3	329.3	1906	-----
54	675.0	652.7	338.0	339.0	47.0	338.1	3.3	341.4	1912	
53	700.0	677.7	351.0	352.0	47.0	351.1	3.3	354.4	1912	
52	725.0	702.7	364.0	365.0	47.0	364.2	3.3	367.4	1912	
51	750.0	727.7	375.0	376.0	47.0	375.2	3.3	378.5	1923	
										2113
50	775.0	752.7	385.0	386.0	47.0	385.2	3.3	388.5	1937	-----
49	800.0	777.7	396.0	397.0	47.0	396.3	3.3	399.5	1947	
48	825.0	802.7	408.0	409.0	47.0	408.3	3.3	411.6	1950	
47	850.0	827.7	419.0	420.0	47.0	419.3	3.3	422.6	1959	
46	875.0	852.7	430.0	431.0	47.0	430.3	3.3	433.6	1967	
										2188
45	900.0	877.7	442.0	443.0	47.0	442.3	3.3	445.6	1970	-----
44	925.0	902.7	453.0	454.0	47.0	453.4	3.3	456.6	1977	
43	950.0	927.7	464.0	465.0	47.0	464.4	3.3	467.7	1984	
42	975.0	952.7	475.0	476.0	47.0	475.4	3.3	478.7	1990	
41	1000.0	977.7	485.0	486.0	47.0	485.4	3.3	488.7	2001	
3	1000.0	977.7	484.0	485.0	47.0	484.4	3.3	487.7	2005	
										2311
40	1025.0	1002.7	496.0	497.0	47.0	496.4	3.3	499.7	2007	-----
39	1050.0	1027.7	507.0	508.0	47.0	507.4	3.3	510.7	2012	
38	1075.0	1052.7	518.0	519.0	47.0	518.5	3.3	521.7	2018	
37	1100.0	1077.7	529.0	530.0	47.0	529.5	3.3	532.8	2023	
36	1125.0	1102.7	539.0	540.0	47.0	539.5	3.3	542.8	2032	
										2355
35	1150.0	1127.7	549.0	550.0	47.0	549.5	3.3	552.8	2040	-----
34	1175.0	1152.7	559.0	560.0	47.0	559.5	3.3	562.8	2048	

KING #1

Field Computations

Source 1

Level No	MD (m)	TVDSO (m)	Tpick (ms)	Tt (ms)	SGO (m)	Tv (ms)	Ts (ms)	Tcorr (ms)	Vave (m/s)	Vint (m/s)
33	1200.0	1177.7	569.0	570.0	47.0	569.5	3.3	572.8	2056	
32	1225.0	1202.7	578.0	579.0	47.0	578.5	3.3	581.8	2067	
31	1250.0	1227.7	590.0	591.0	47.0	590.5	3.3	593.8	2067	
										2448
30	1275.0	1252.7	600.0	601.0	47.0	600.6	3.3	603.8	2075	-----
29	1300.0	1277.7	610.0	611.0	47.0	610.6	3.3	613.8	2081	
28	1325.0	1302.7	616.0	617.0	47.0	616.6	3.3	619.9	2102	
27	1350.0	1327.7	627.0	628.0	47.0	627.6	3.3	630.9	2105	
26	1375.0	1352.7	634.0	635.0	47.0	634.6	3.3	637.9	2121	
										2838
25	1400.0	1377.7	644.0	645.0	47.0	644.6	3.3	647.9	2126	-----
24	1425.0	1402.7	654.0	655.0	47.0	654.6	3.3	657.9	2132	
23	1450.0	1427.7	662.0	663.0	47.0	662.6	3.3	665.9	2144	
22	1475.0	1452.7	670.0	671.0	47.0	670.6	3.3	673.9	2156	
21	1500.0	1477.7	679.0	680.0	47.0	679.6	3.3	682.9	2164	
4	1500.0	1477.7	678.0	679.0	47.0	678.6	3.3	681.9	2167	
										2973
20	1525.0	1502.7	686.0	687.0	47.0	686.6	3.3	689.9	2178	-----
19	1550.0	1527.7	697.0	698.0	47.0	697.7	3.3	700.9	2180	
18	1575.0	1552.7	705.0	706.0	47.0	705.7	3.3	708.9	2190	
17	1600.0	1577.7	713.0	714.0	47.0	713.7	3.3	716.9	2201	
16	1625.0	1602.7	721.0	722.0	47.0	721.7	3.3	725.0	2211	
										2905
15	1650.0	1627.7	729.0	730.0	47.0	729.7	3.3	733.0	2221	-----
14	1675.0	1652.7	738.0	739.0	47.0	738.7	3.3	742.0	2227	
13	1700.0	1677.7	747.0	748.0	47.0	747.7	3.3	751.0	2234	
12	1725.0	1702.7	754.0	755.0	47.0	754.7	3.3	758.0	2246	
11	1750.0	1727.7	764.0	765.0	47.0	764.7	3.3	768.0	2250	
										2776
10	1775.0	1752.7	774.0	775.0	47.0	774.7	3.3	778.0	2253	-----
9	1800.0	1777.7	781.0	782.0	47.0	781.7	3.3	785.0	2265	
8	1825.0	1802.7	788.0	789.0	47.0	788.7	3.3	792.0	2276	
7	1850.0	1827.7	795.0	796.0	47.0	795.7	3.3	799.0	2287	
6	1875.0	1852.7	805.0	806.0	47.0	805.7	3.3	809.0	2290	
										3203
5	1900.0	1877.7	813.0	814.0	47.0	813.7	3.3	817.0	2298	-----

KING #1

Field Computations

Source 1

SAGASCO RESOURCES LTD

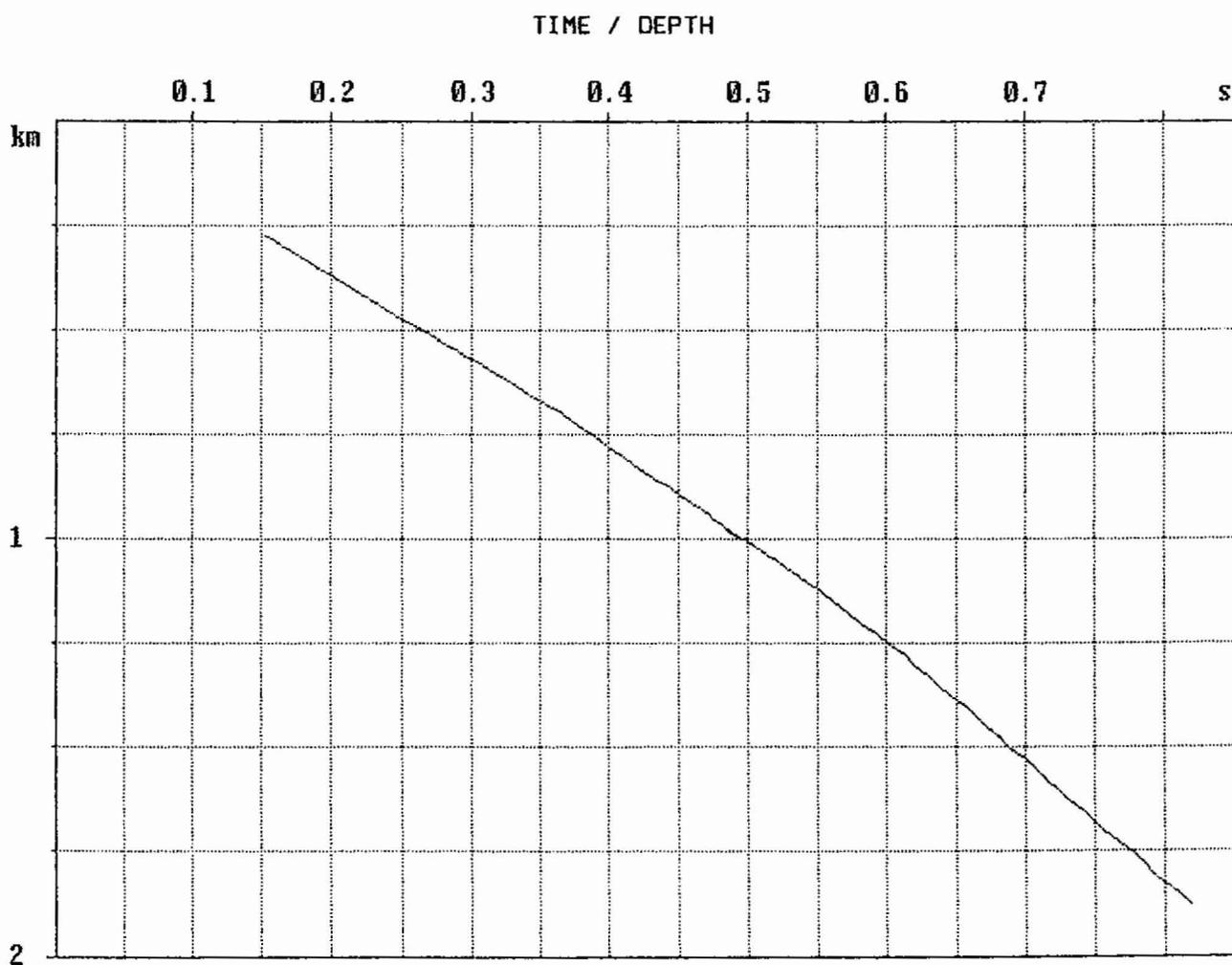
Seismograph Service

Delta-t OASYS Release 5.05

Survey date: 21st November 1992

Reference level: RT
 Ref. elevation: 22.3m
 Source depth: 5m
 Surface elevation: 0m

Survey datum: MSL
 Source offset: 47.0m
 Monitor depth: 3.5m
 Water velocity: 1524m/s



Depths and times are vertical below datum of MSL

5 cm

SAGASCO RESOURCES LTD

Seismograph Service

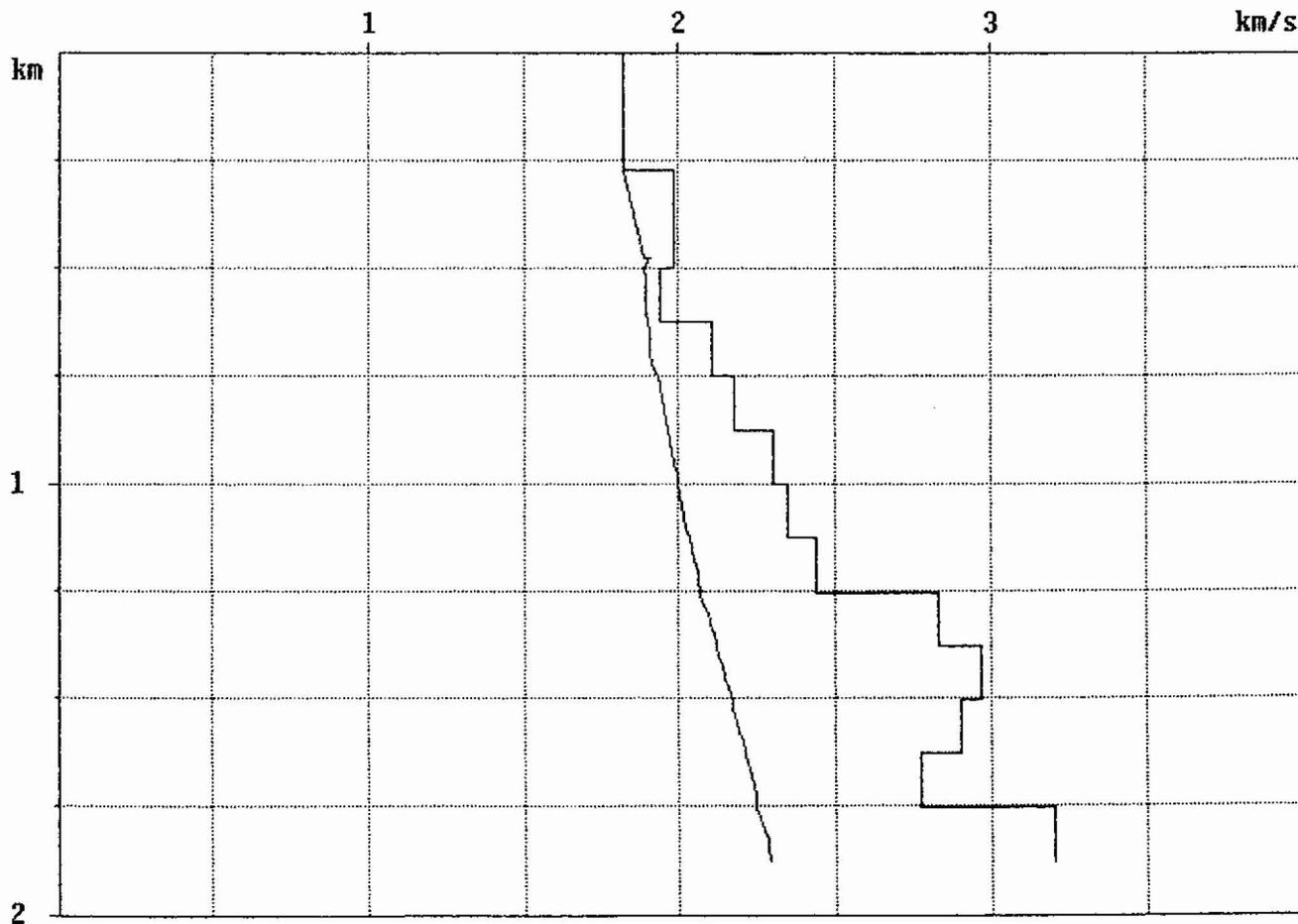
Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

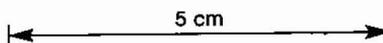
Reference level: RT
 Ref. elevation: 22.3m
 Source depth: 5m
 Surface elevation: 0m

Survey datum: MSL
 Source offset: 47.0m
 Monitor depth: 3.5m
 Water velocity: 1524m/s

AVERAGE and INTERVAL VELOCITY / DEPTH



Depths and times are vertical below datum of MSL
 Velocities are calculated from vertical depths and times below datum of MSL



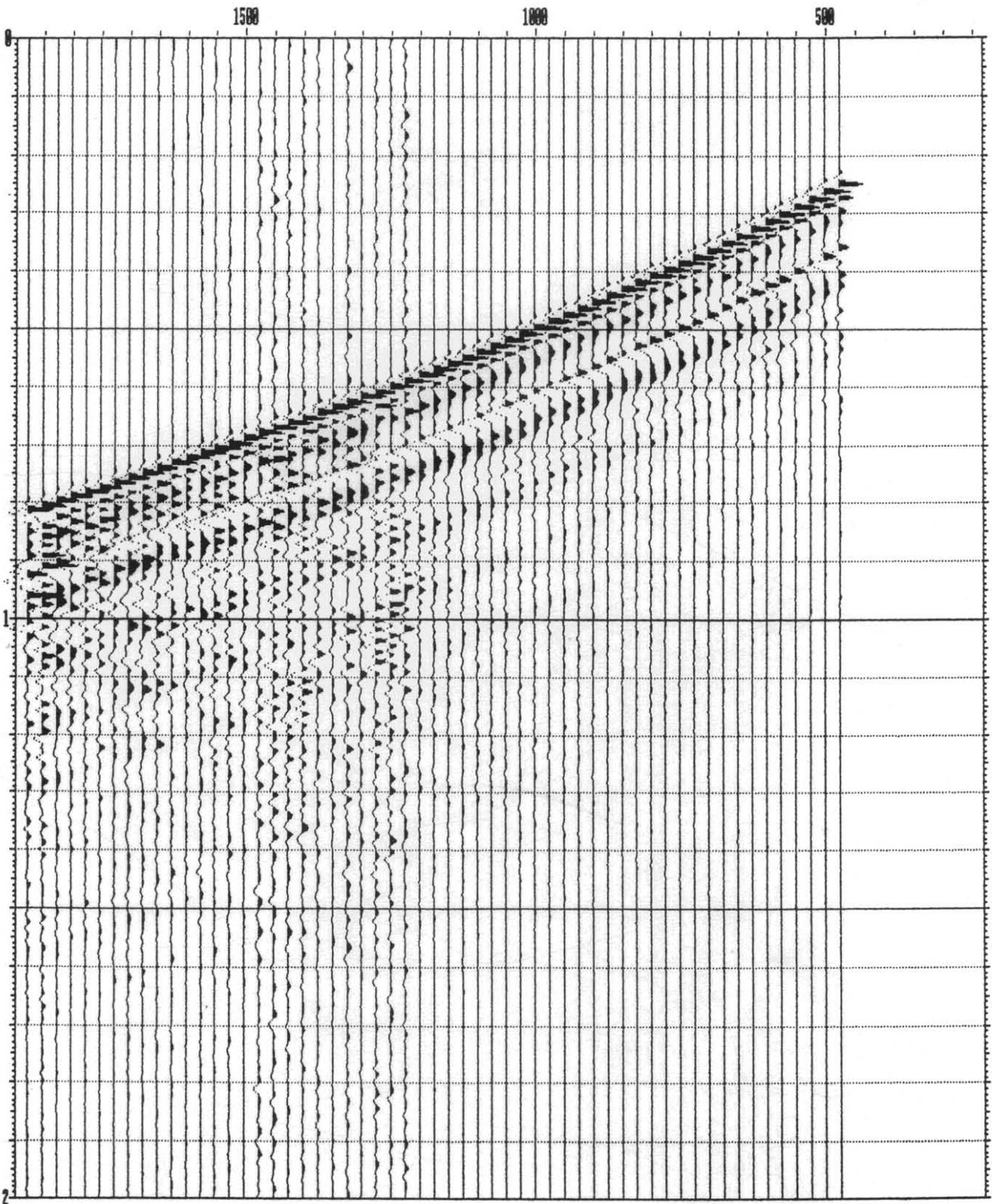
SAGASCO RESOURCES LTD

Seismograph Service
Delta-t DAQSYS Release 5.05
21/11/1992 12:30

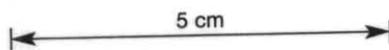
Plot polarity: SEG normal
Plot filter: 5,10,45,70Hz

Time scale: 10.00cm/s
One-way time from start

Depth scale: 1:10000
Depth n below NSL



5 cm



KING #1

Filtered Stack (Source 1)

Phase 1

SAGASCO RESOURCES LTD

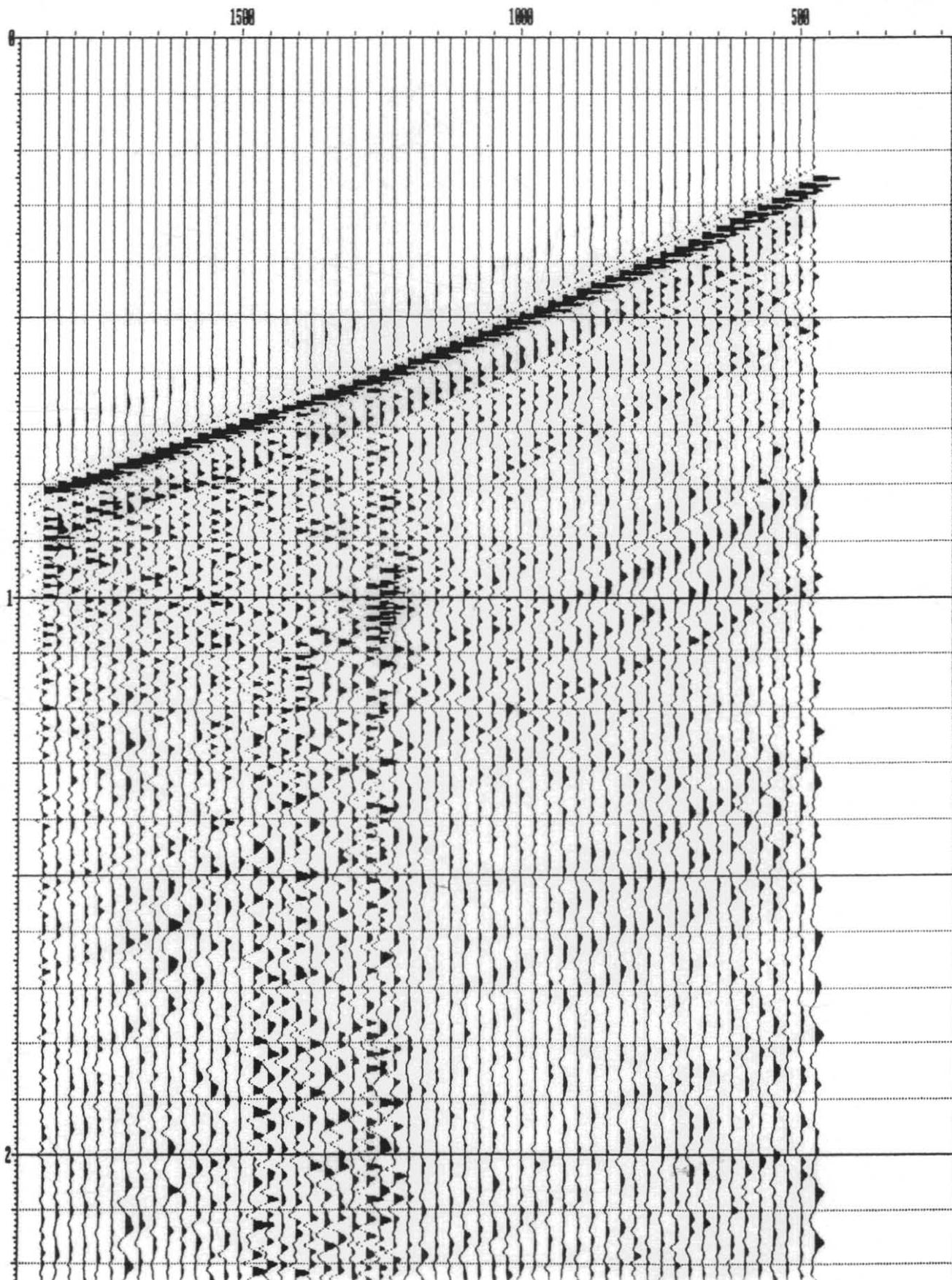
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 16:25

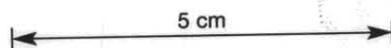
Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)

Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Time scale: 10.00cm/s
One-way time from MSL

Depth scale: 1:10000
Depth n below MSL





KING #1

Downwave (Source 1)

Phase 2

SAGASCO RESOURCES LTD

Seismograph Service

Delta-t RIGPRO Release 5.05

21/11/1992 13:23

Designature: 500ns window

Filter: 5,10,65,80Hz

Amplitude recovery: t(1.3)

Downwave median: 9:1

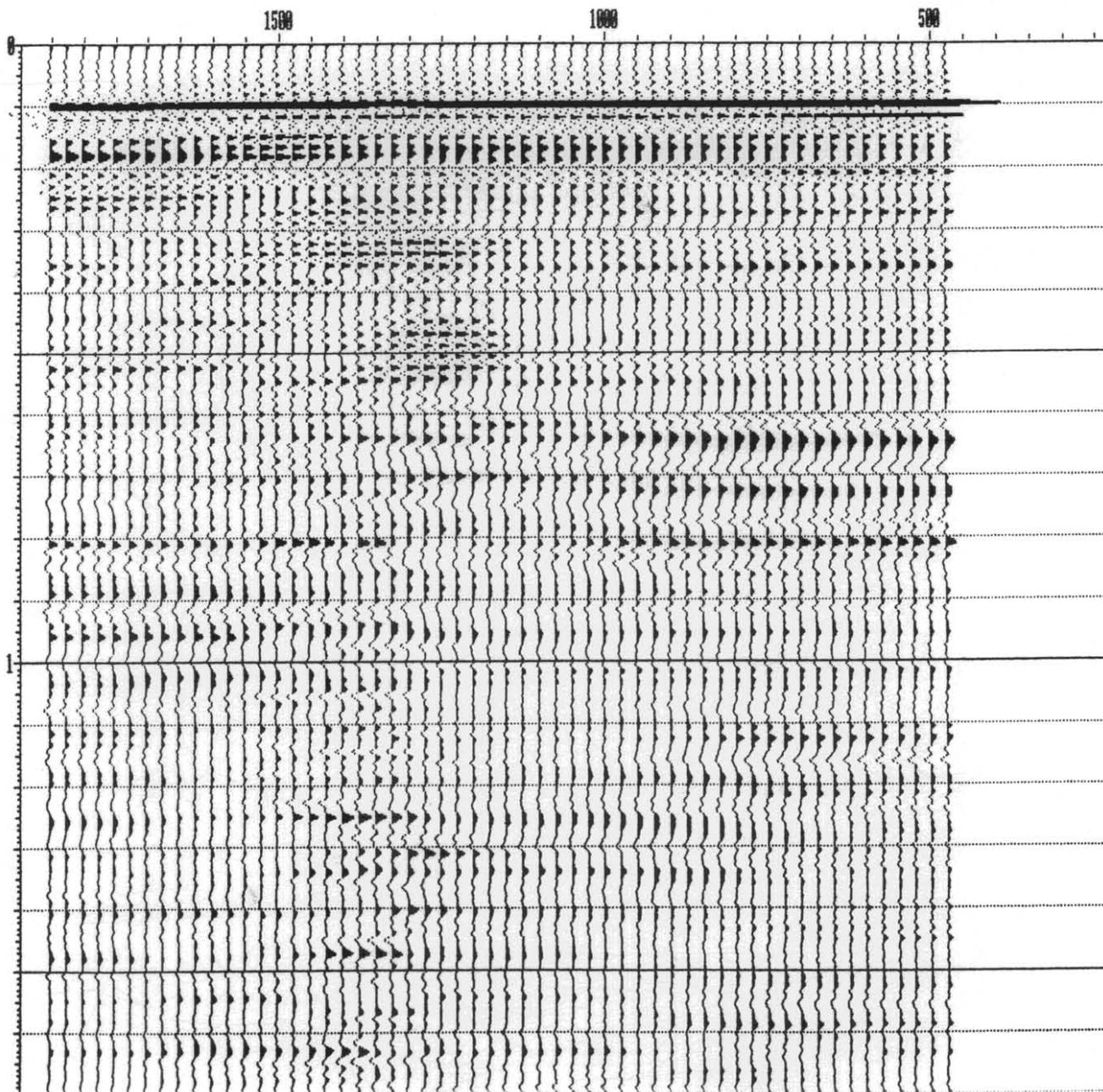
Plot polarity: SEG normal

Plot filter: 5,10,60,80Hz

Time scale: 3.75in/s

Depth scale: 1:10000

Depth n below MSL



SAGASCO RESOURCES LTD

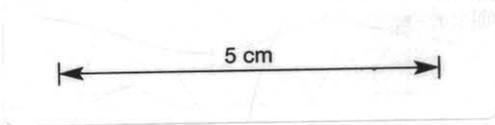
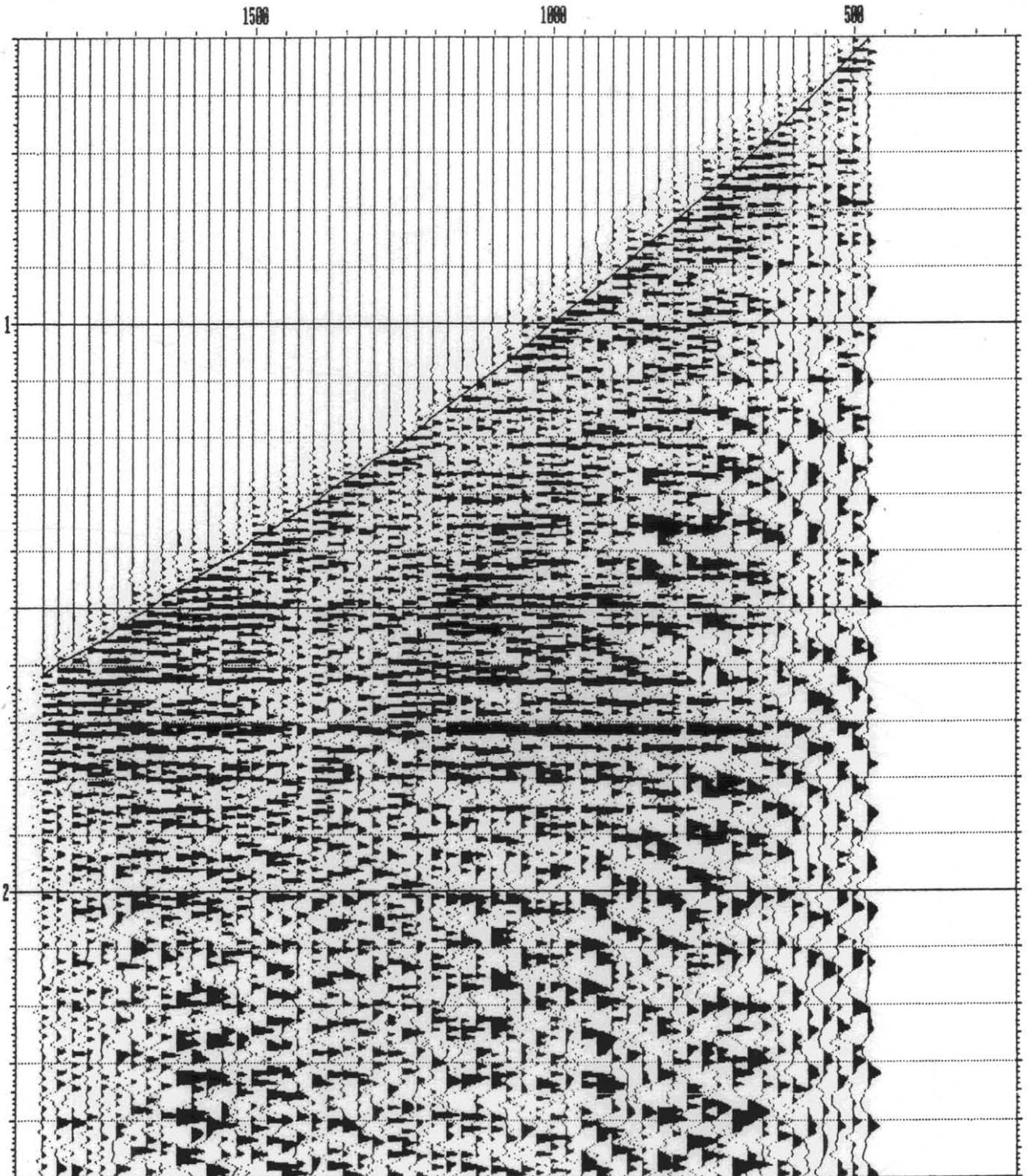
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 13:37

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1

Plot polarity: SEG normal
Plot filter: 5,10,60,80Hz

Time scale: 3.75in/s
Two-way time from NSL

Depth scale: 1:10000
Depth n below NSL



SAGASCO RESOURCES LTD

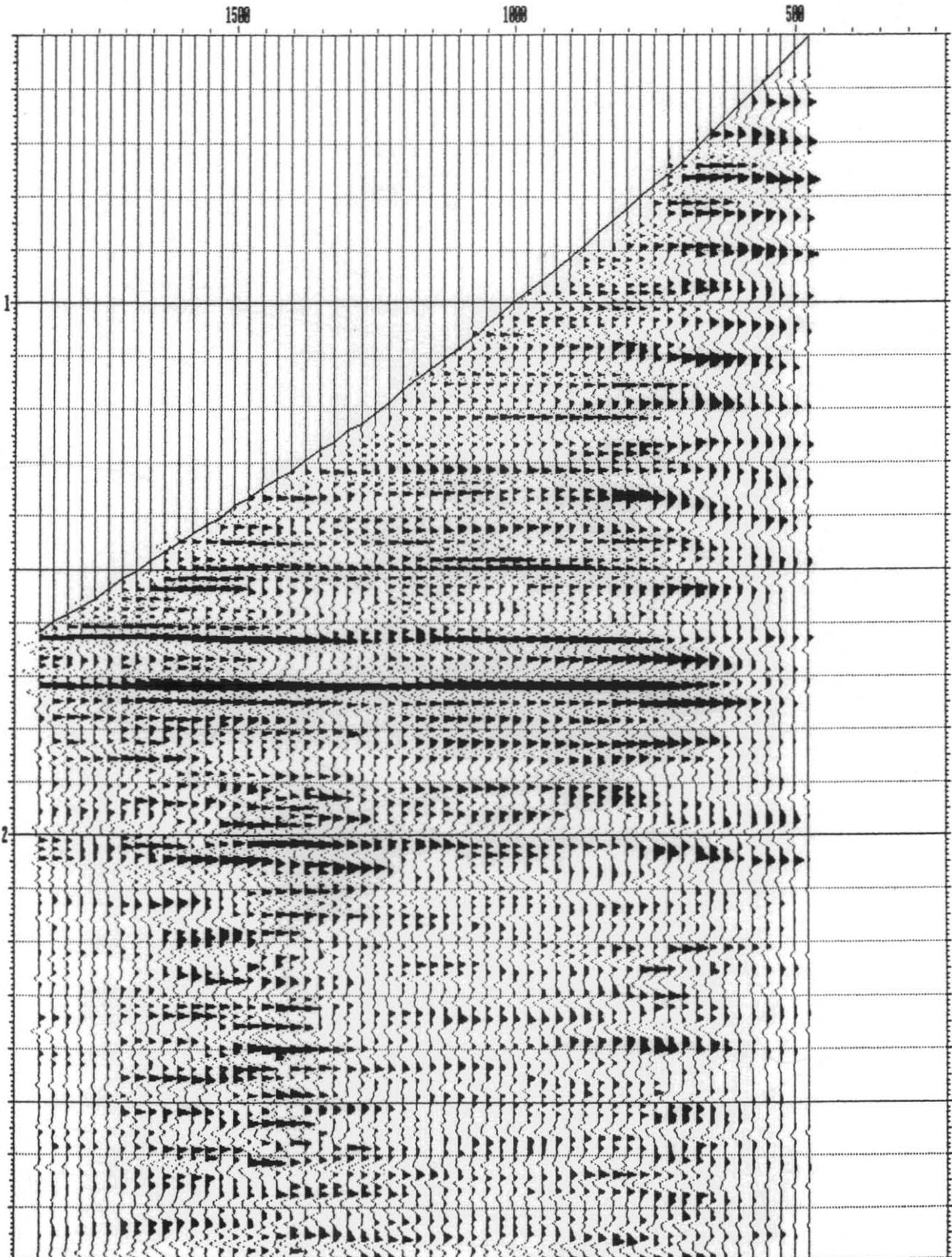
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 12:43

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

Plot polarity: SEG normal
Plot filter: 5,10,60,80Hz

Time scale: 3.75in/s
Two-way time from NSL

Depth scale: 1:10000
Depth n below NSL



5 cm

SAGASCO RESOURCES LTD

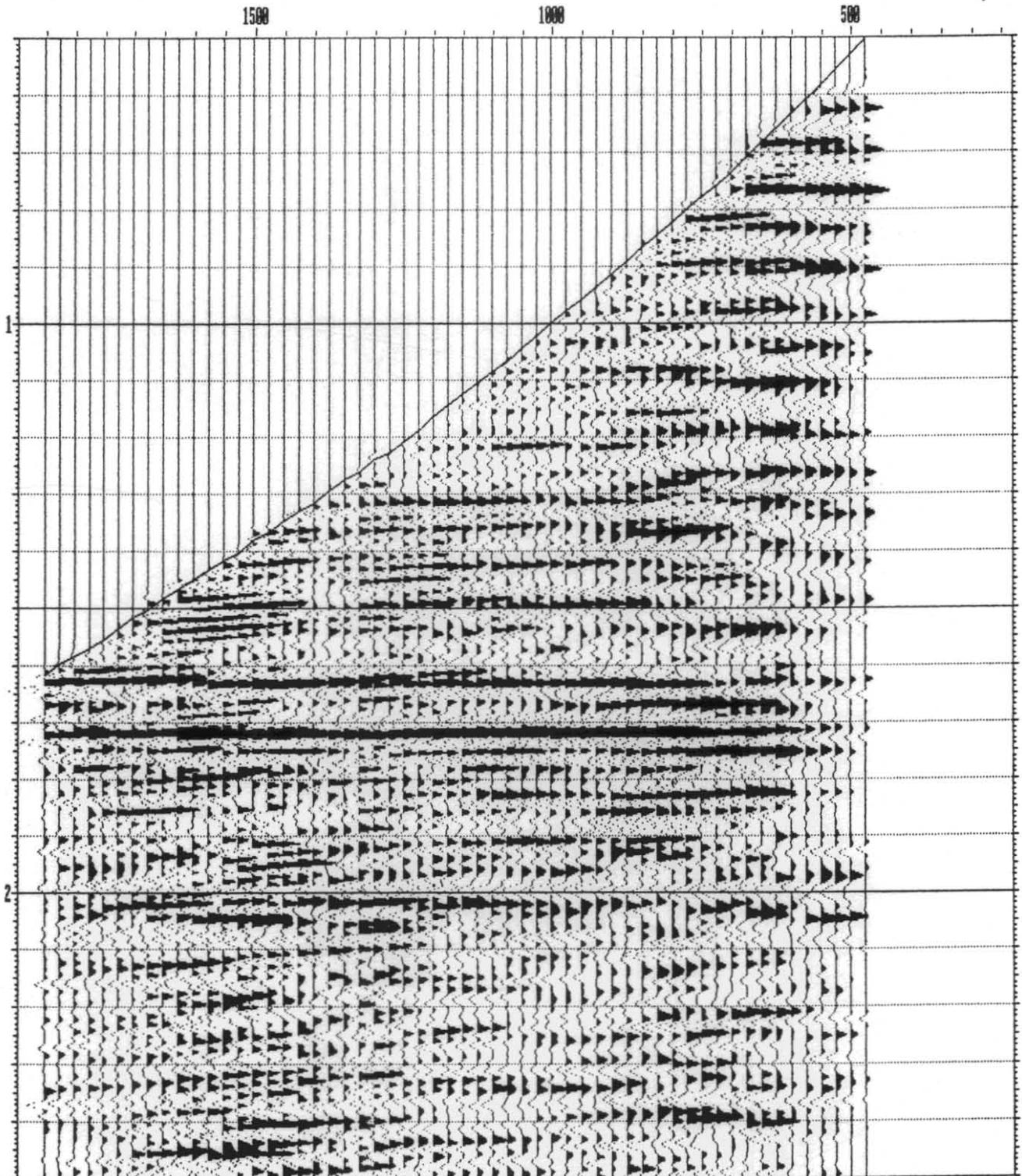
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 16:38

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: -4,0 Accept: -2,0 ns

Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Time scale: 3.75in/s
Two-way time from NSL

Depth scale: 1:10000
Depth n below NSL



KING #1

Upwave (Source 1)

Phase 5

SAGASCO RESOURCES LTD

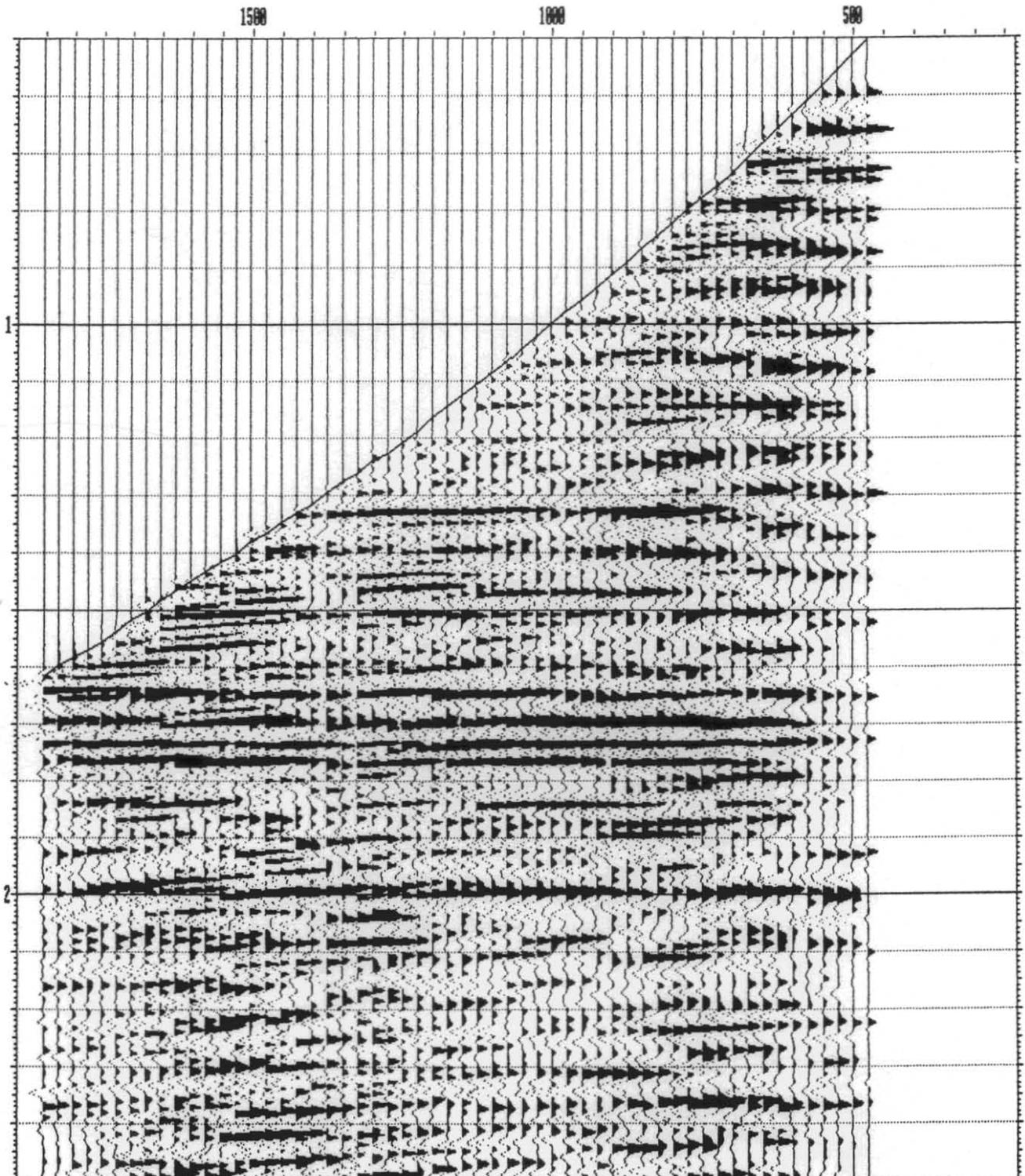
Seismograph Service
 Delta-t RIGPRO Release 5.05
 21/11/1992 16:46

Signature: 500ns window
 Filter: 5,10,65,80Hz
 Amplitude recovery: t(1.3)
 Downwave median: 9:1
 Multiple suppression: 500ns window
 Tracking filter median: 7:1
 Search: -4,0 Accept: -2,0 ns

Plot polarity: SEG reverse
 Plot filter: 5,10,50,70Hz

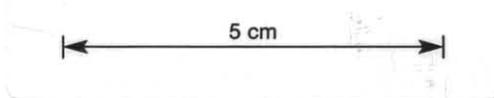
Time scale: 3.75in/s
 Two-way time from NSL

Depth scale: 1:10000
 Depth n below NSL



SAGASCO RESOURCES LTD

Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 13:49

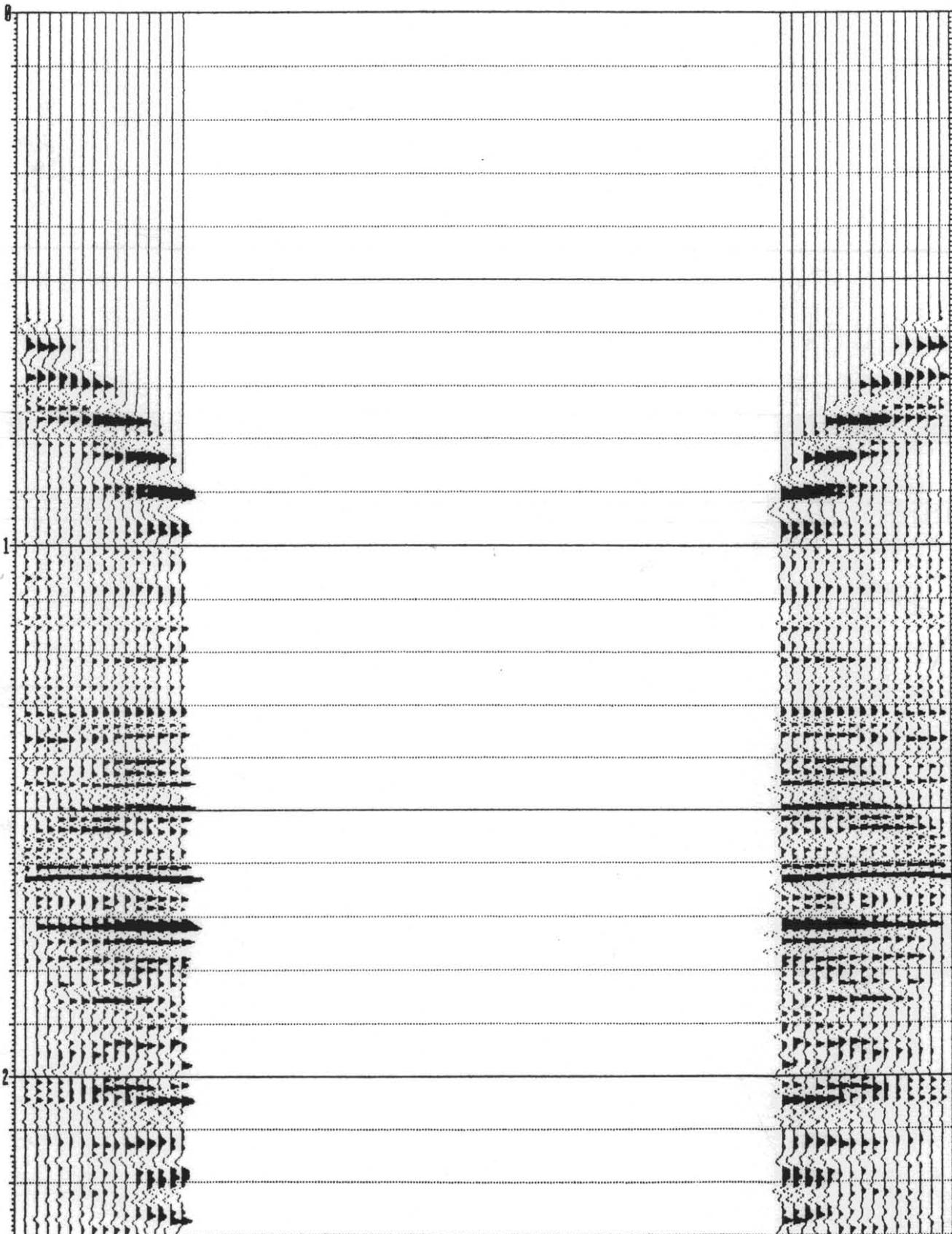


Signature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

Plot polarity: SEG normal
Plot filter: 5,10,60,80Hz

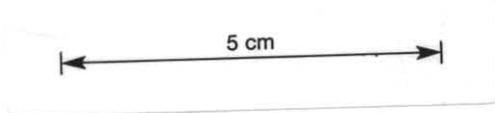
Time scale: 3.75in/s
Two-way time from NSL

Depth n below RT



SAGASCO RESOURCES LTD

Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 13:57

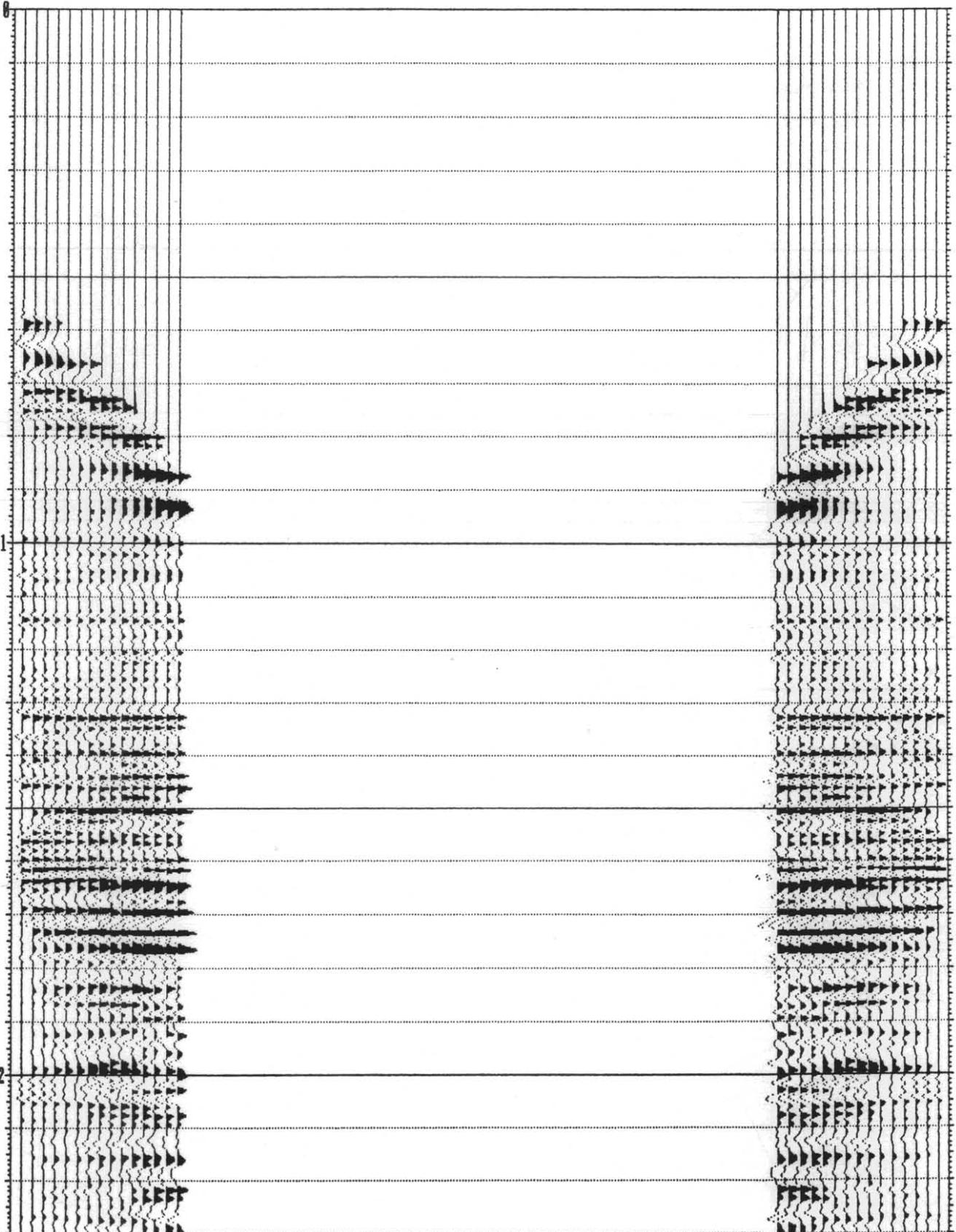


Signature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

Plot polarity: SEG reverse
Plot filter: 5,10,60,80Hz

Time scale: 3.75in/s
Two-way time from MSL

Depth n below RT



SAGASCO RESOURCES LTD

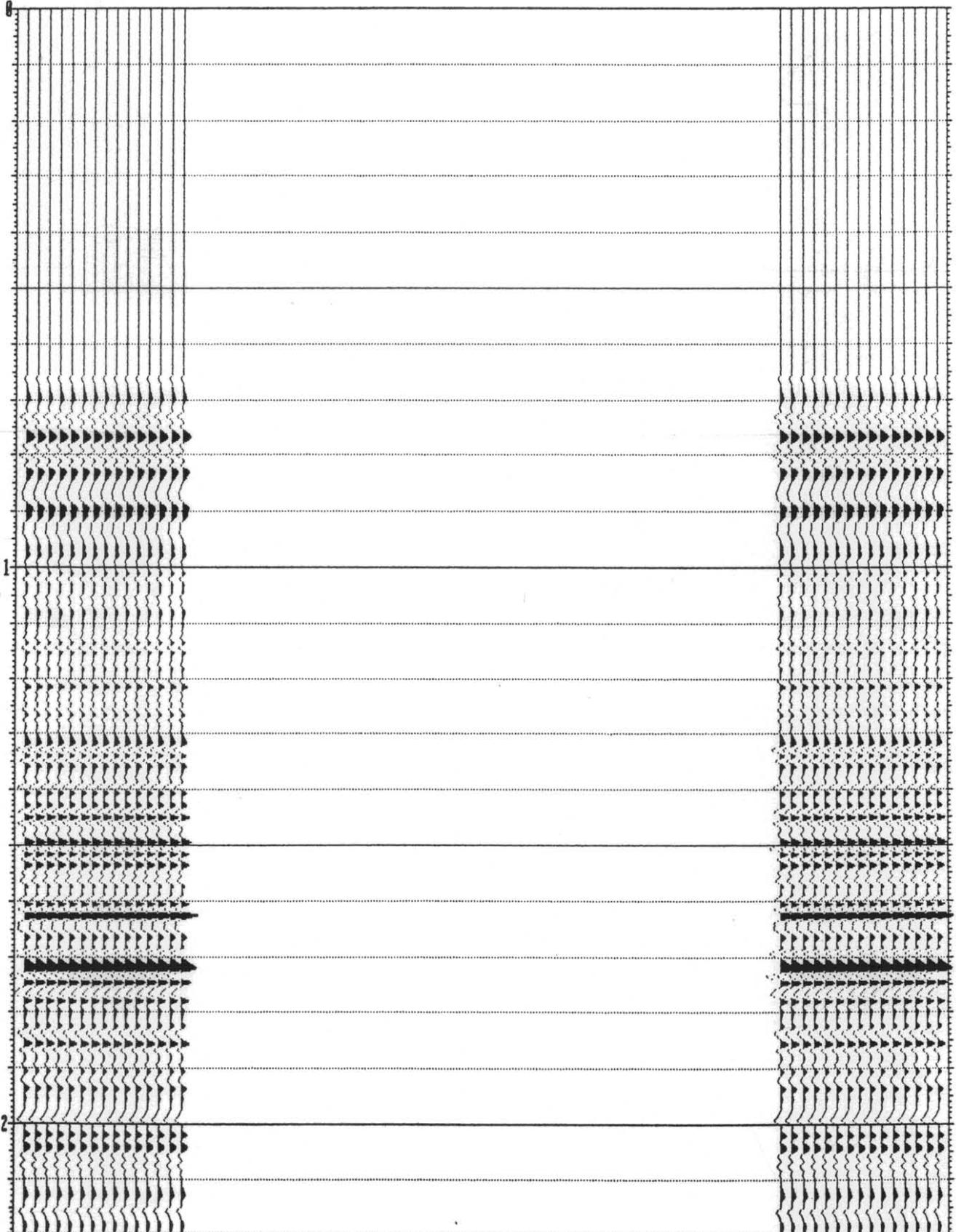
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 15:15

Signature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

Plot polarity: SEG normal
Plot filter: 5,10,60,80Hz

Time scale: 10.00cm/s
Two-way time from NSL

Depth n below RT



5 cm

SAGASCO RESOURCES LTD

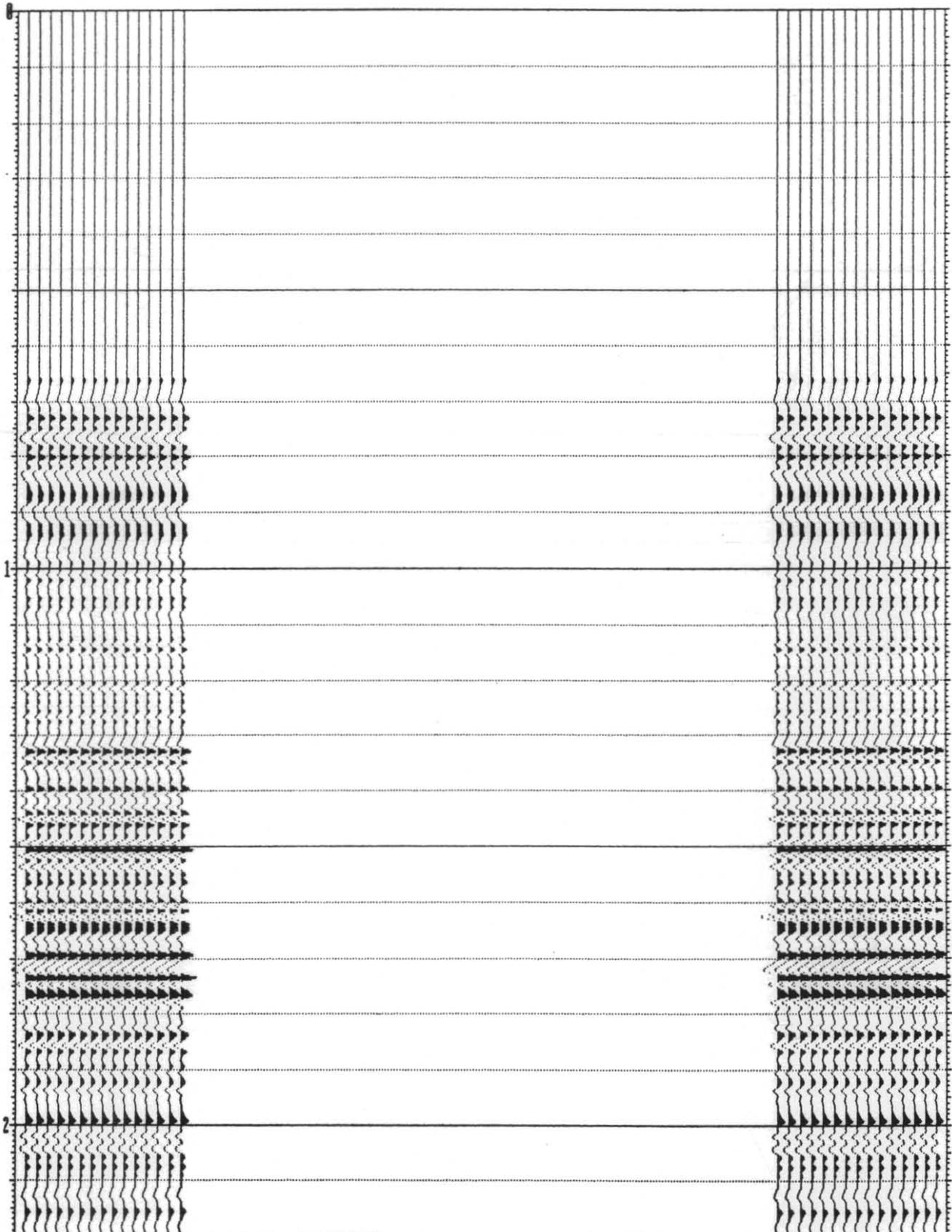
Seisnograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 15:26

Signature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

Plot polarity: SEG reverse
Plot filter: 5,10,60,80Hz

Line scale: 10.00cm/s
Two-way time from MSL

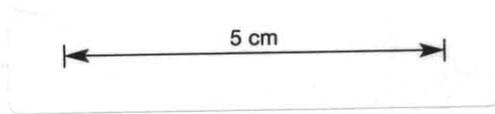
Depth n below RT



SAGASCO RESOURCES LTD

Seisnograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 15:36

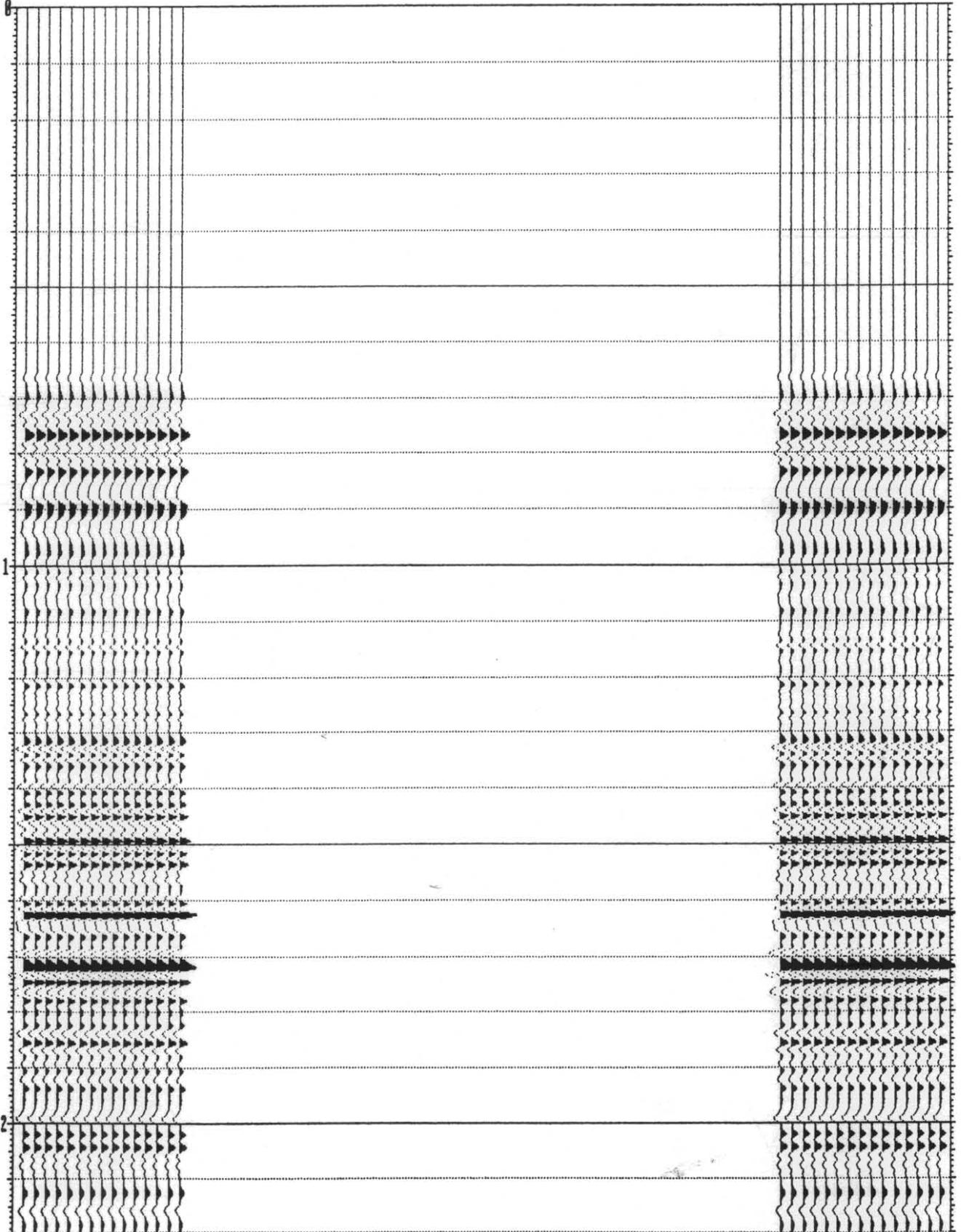
Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

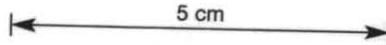


Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Time scale: 10.00cm/s
Two-way time from MSL

Depth n below RT





KING #1

Corridor stack (Source 1)

Phase 6

SAGASCO RESOURCES LTD

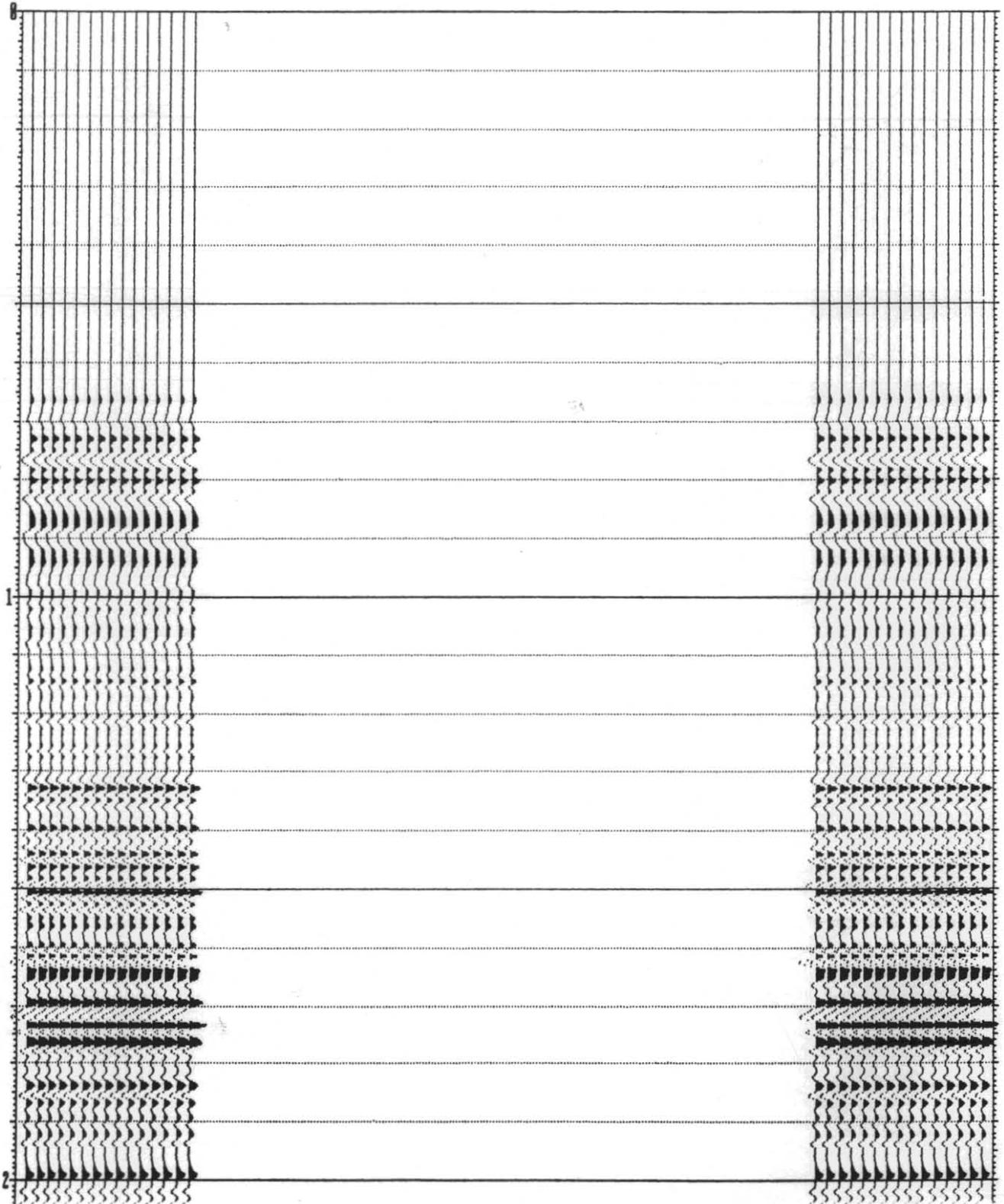
Seisnograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 15:44

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns

Plot polarity: SEG reverse
Plot filter: 5,10,50,70Hz

Time scale: 10.00cm/s
Two-way time from NSL

Depth n below RT



KING #1

Corridor (Source 1)

Phase 6

SAGASCO RESOURCES LTD

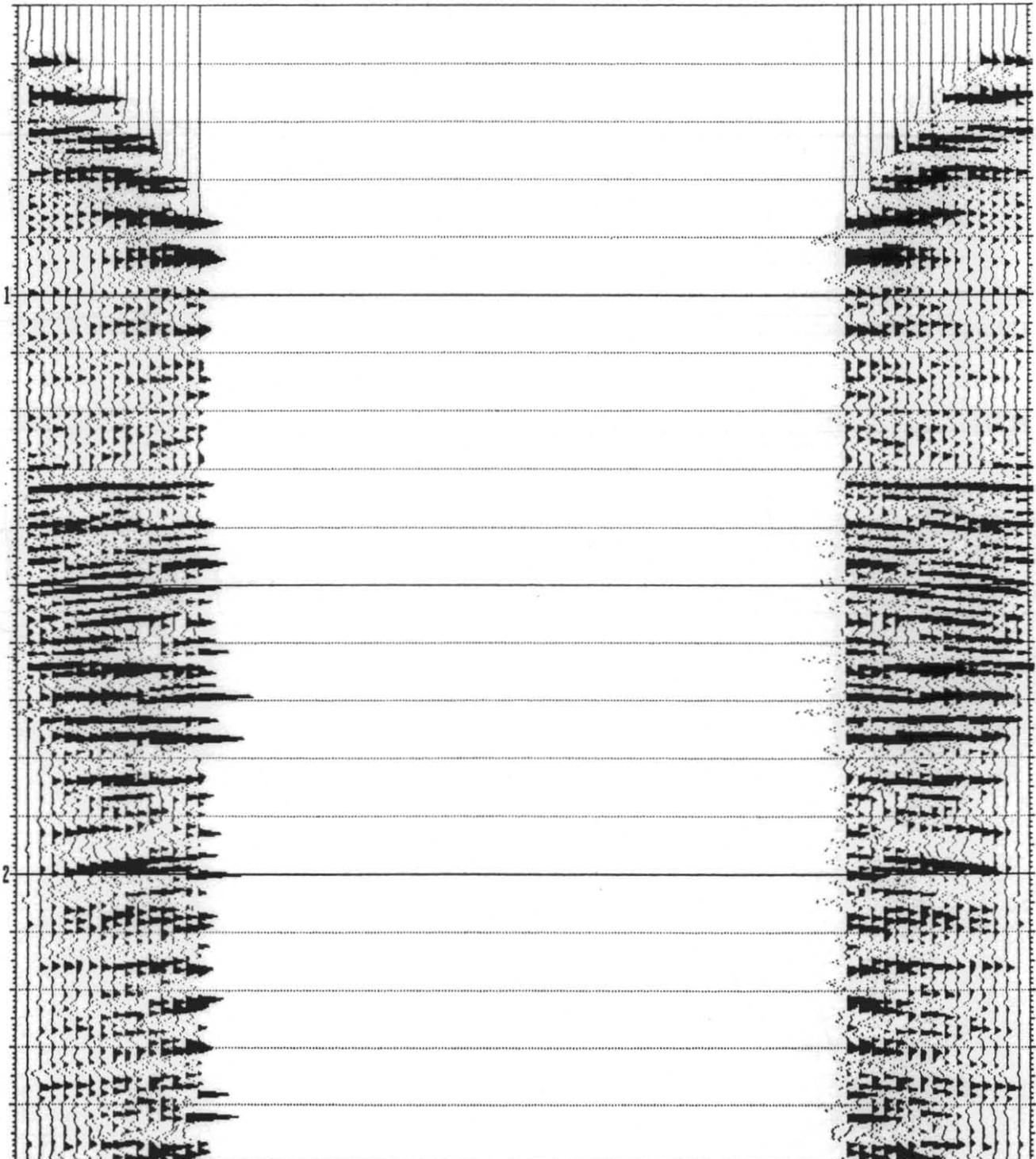
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 17:03

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: -1,0 Accept: -2,0 ns

Plot polarity: SEG reverse
Plot filter: 5,10,50,70Hz

Line scale: 3.75in/s
Two-way time from RSL

Depth n below RT



SAGASCO RESOURCES LTD

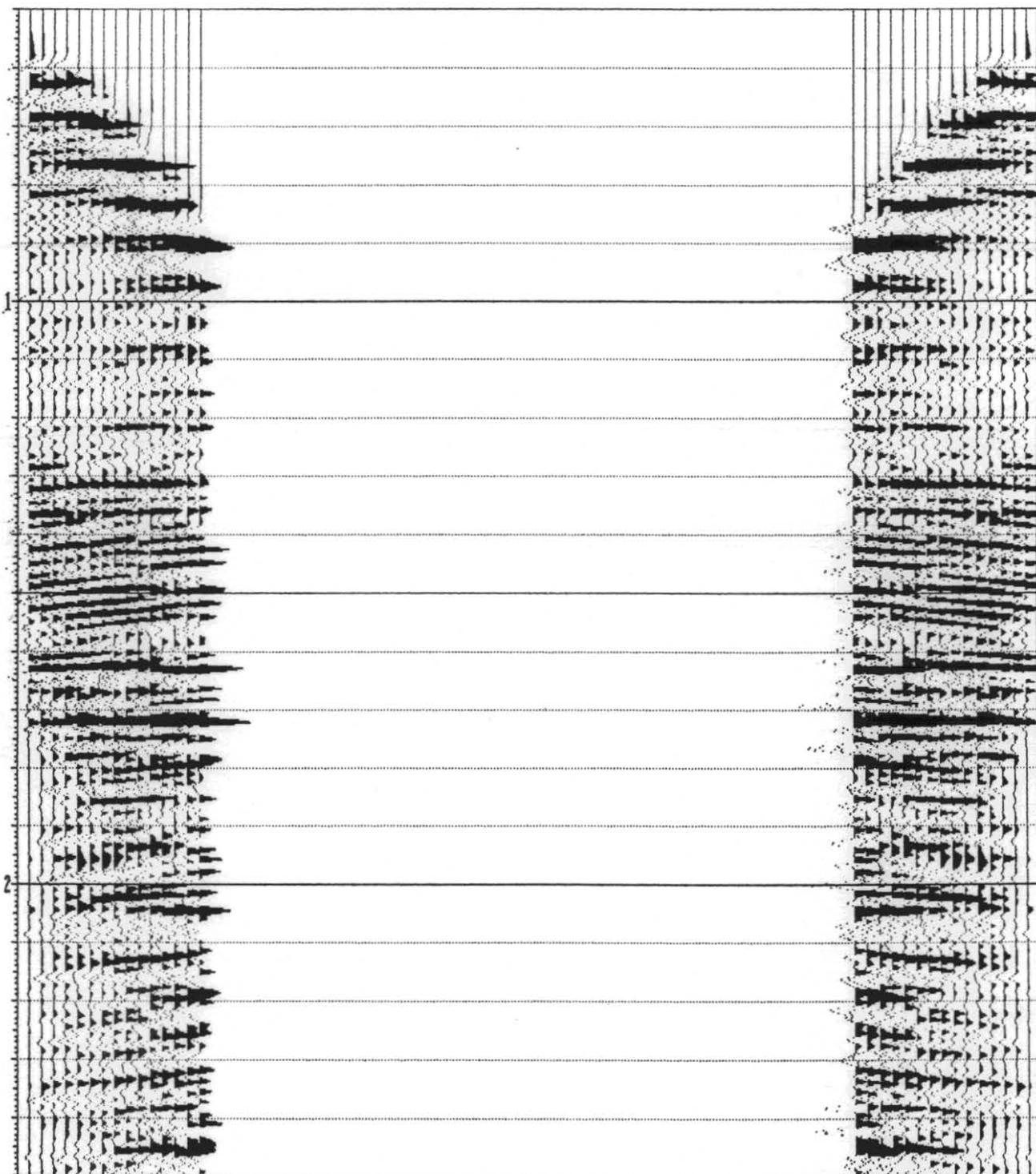
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 17:10

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: -4,0 Accept: -2,0 ns

Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Line scale: 3.75in/s
Two-way time from NSL

Depth n below RT



5 cm

KING #1

Corridor stack (Source 1)

Phase 6

SAGASCO RESOURCES LTD

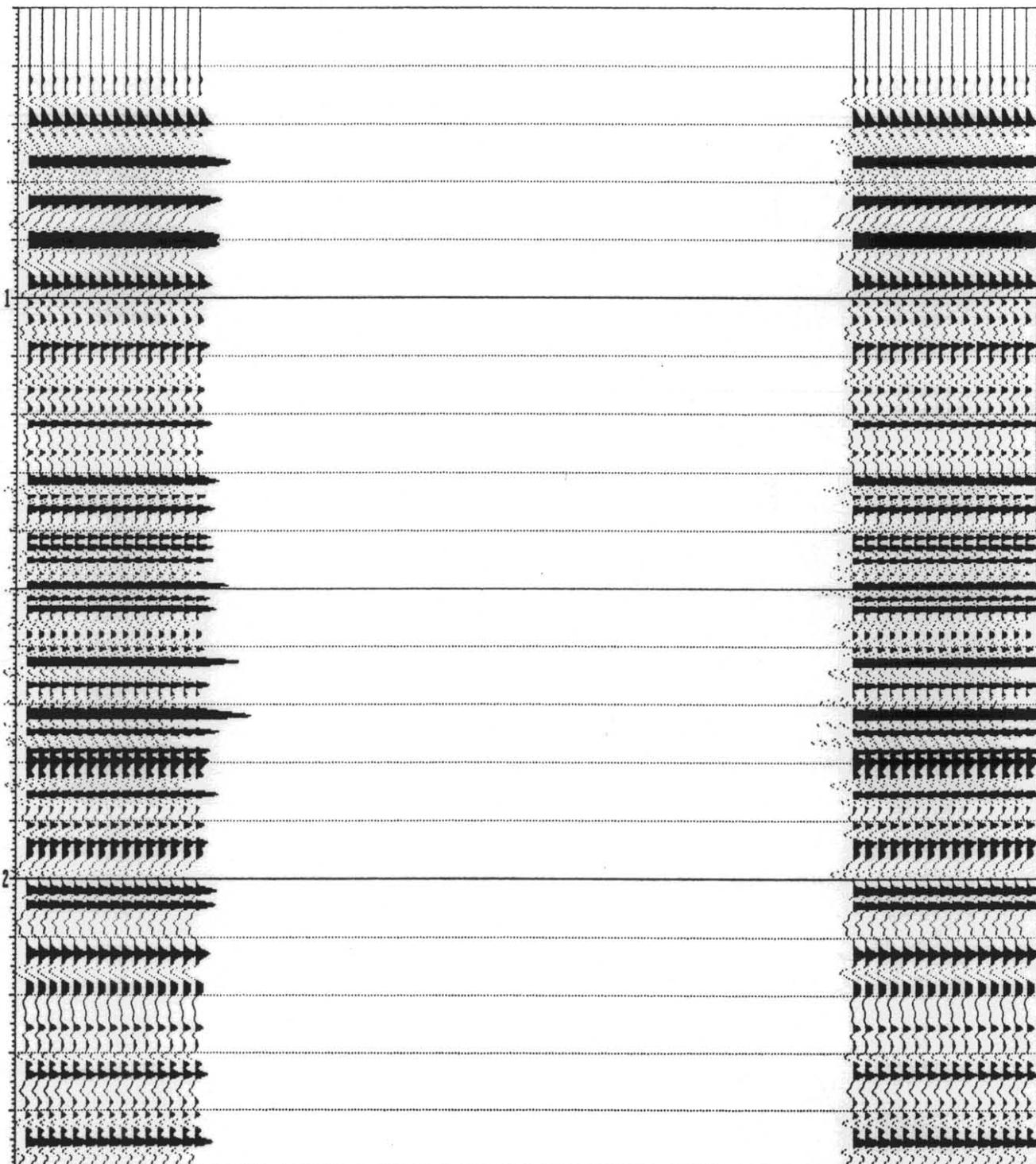
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 17:19

Designature: 500ms window
Filter: 5,10,65,80Hz
Amplitude recovery: 1(1.3)
Downwave median: 9:1
Multiple suppression: 500ms window
Tracking filter median: 7:1
Search: -4,0 Accept: -2,0 ms

Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Time scale: 3.75in/s
Two-way time from MSL

Depth n below RT



5 cm

KING #1

Corridor stack (Source 1)

Phase 6

SAGASCO RESOURCES LTD

Seismograph Service

Delta-t RIGPRO Release 5.05

21/11/1992 17:46

Designature: 500ns window

Filter: 5,10,65,80Hz

Amplitude recovery: t(1.3)

Downwave median: 9:1

Multiple suppression: 500ns window

Tracking filter median: 7:1

Search: -4,0 Accept: -2,0 ns

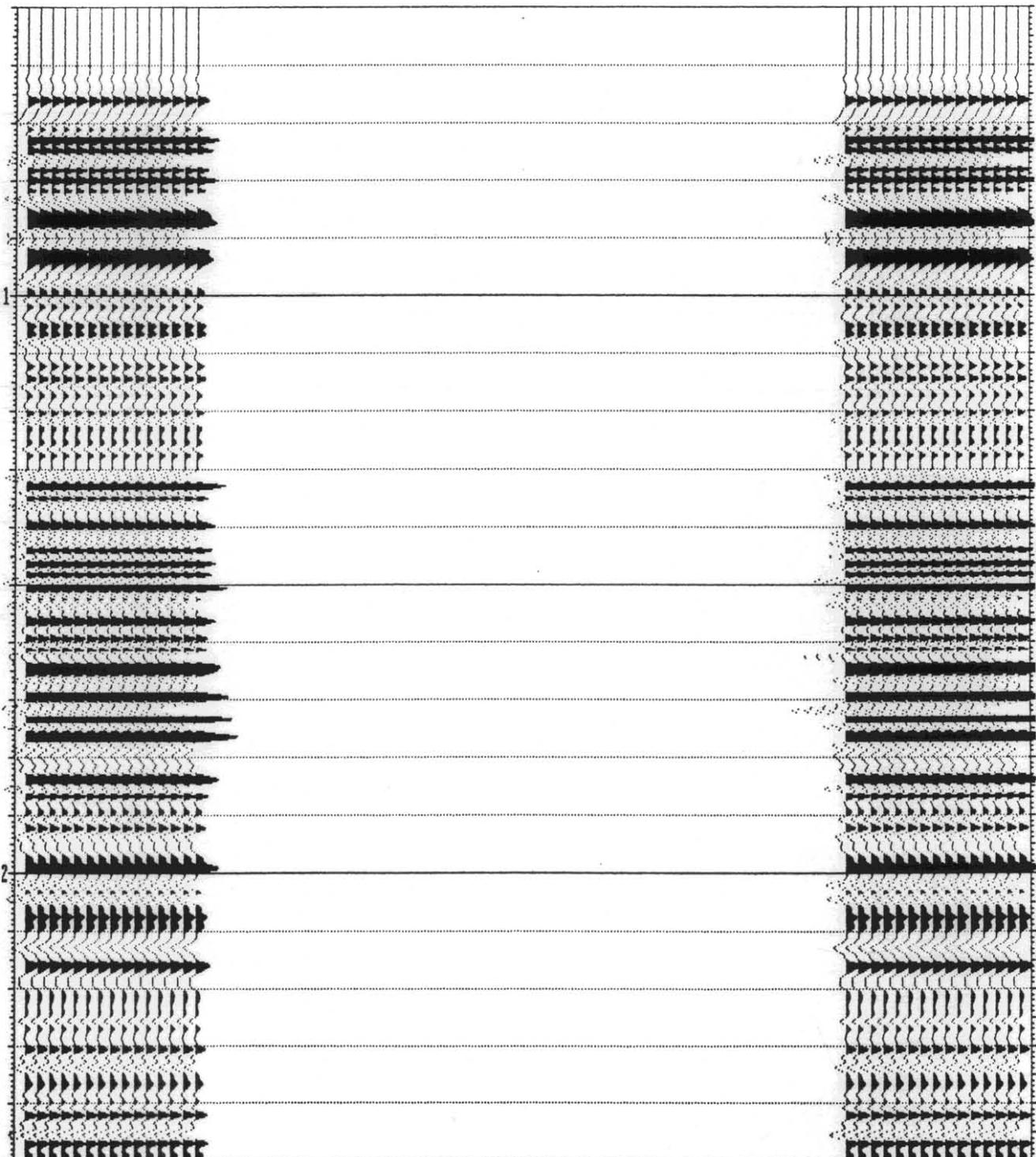
Plot polarity: SEG reverse

Plot filter: 5,10,50,70Hz

Time scale: 3.75in/s

Two-way time from MSL

Depth n below RT



5 cm

SAGASCO RESOURCES LTD

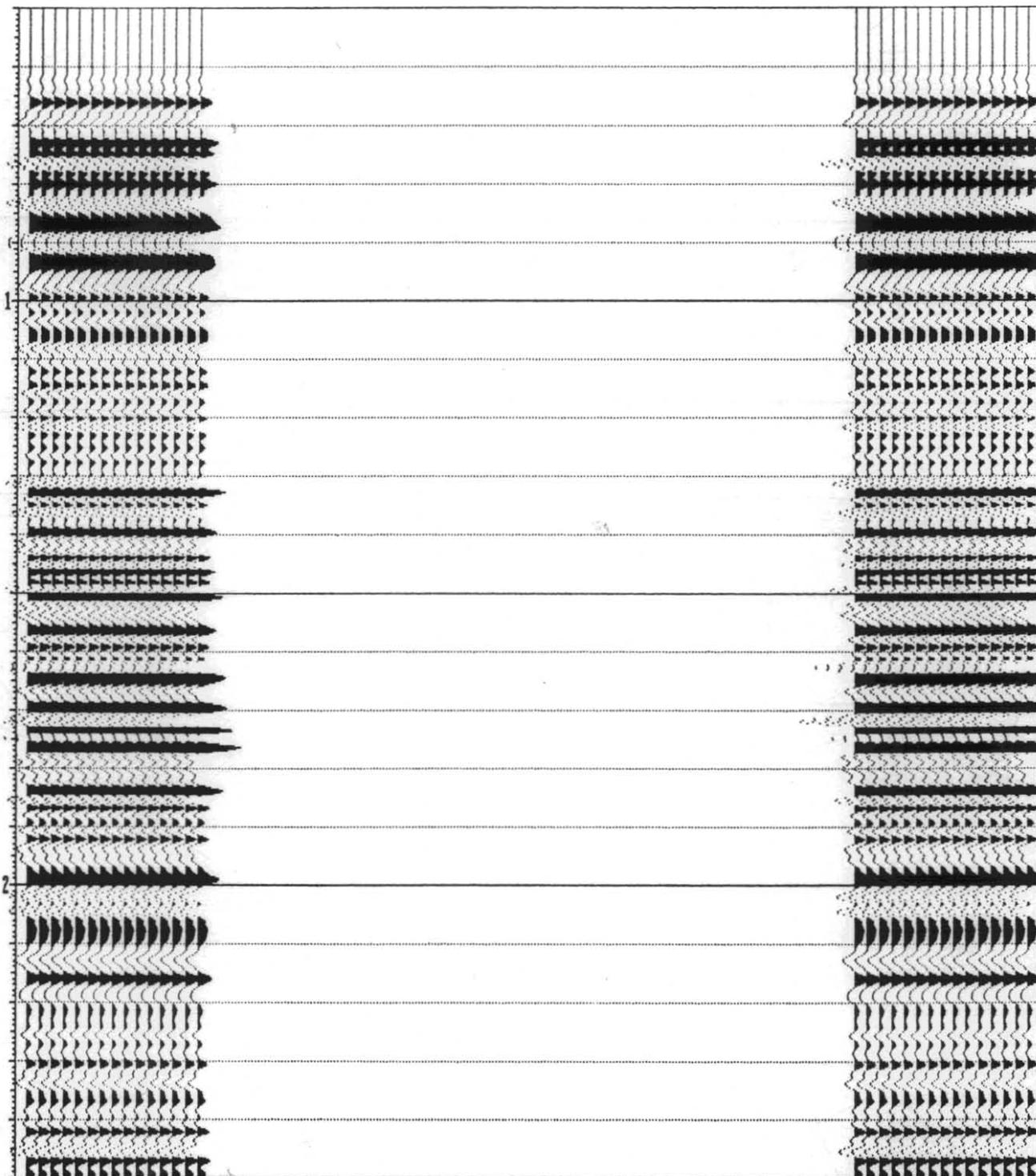
Seismograph Service
Delta-t RIGPRO Release 5.05
21/11/1992 17:54

Signature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: -4,0 Accept: -2,0 ns

Plot polarity: SEG reverse
Plot filter: 5,10,40,60Hz

Time scale: 3.75in/s
Two-way time from NSL

Depth n below RT



5 cm

296223

Phase 6

Corridor stack (Source 1)

KING #1

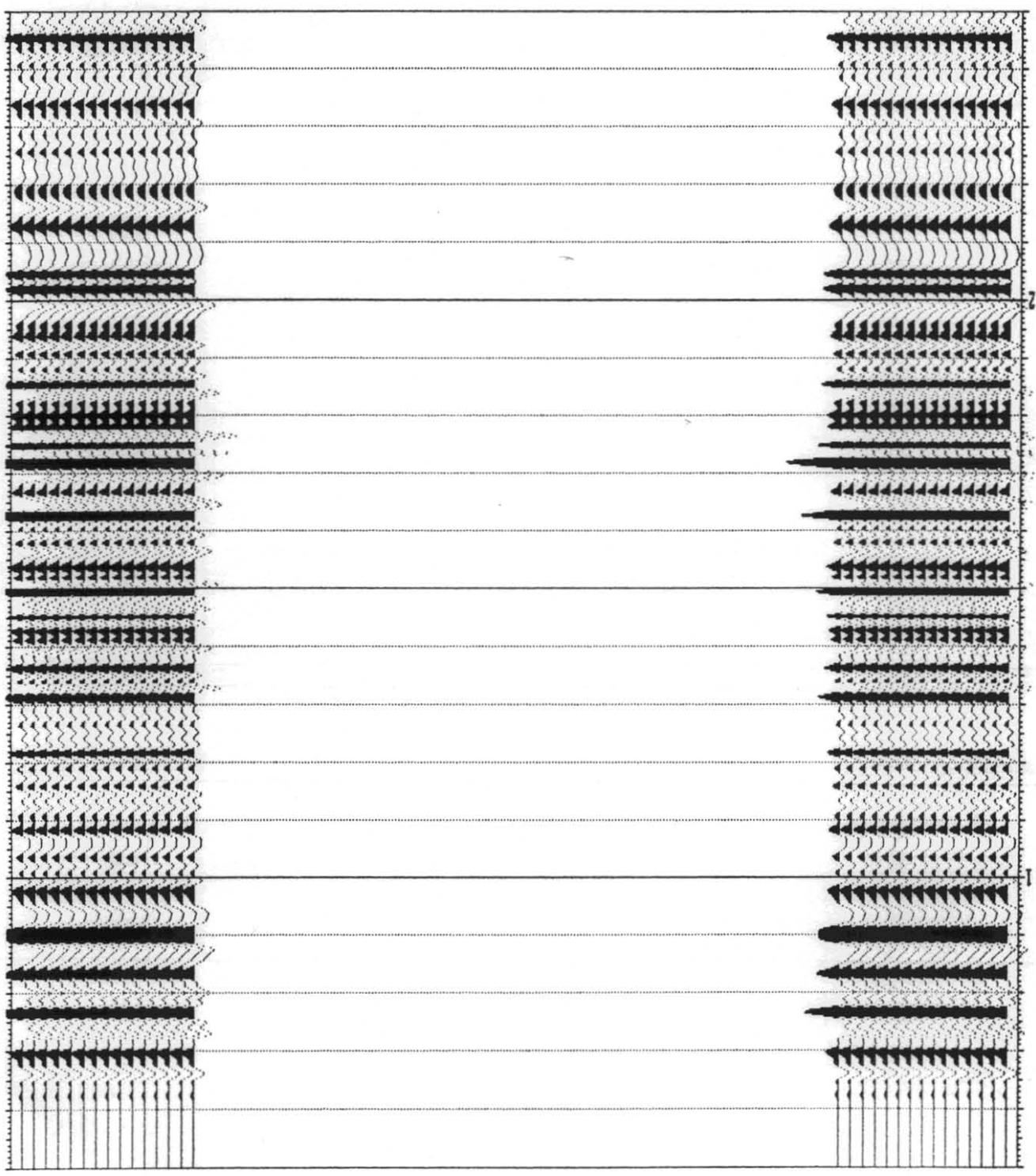
SAGSCO RESOURCES LTD

Seismograph Service
Delta-T RIGPRO Release 5.05
21/11/1992 18:02

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: -4.0 Accept: -2.0 ns

Plot polarity: SEG normal
Plot filter: 5,10,40,60Hz
Depth n below RT

Time scale: 3.75in/s
Two-way time from HSL



5 cm

5 cm

296224

KING #1

Trace Inversion (Source 1)

Phase 7

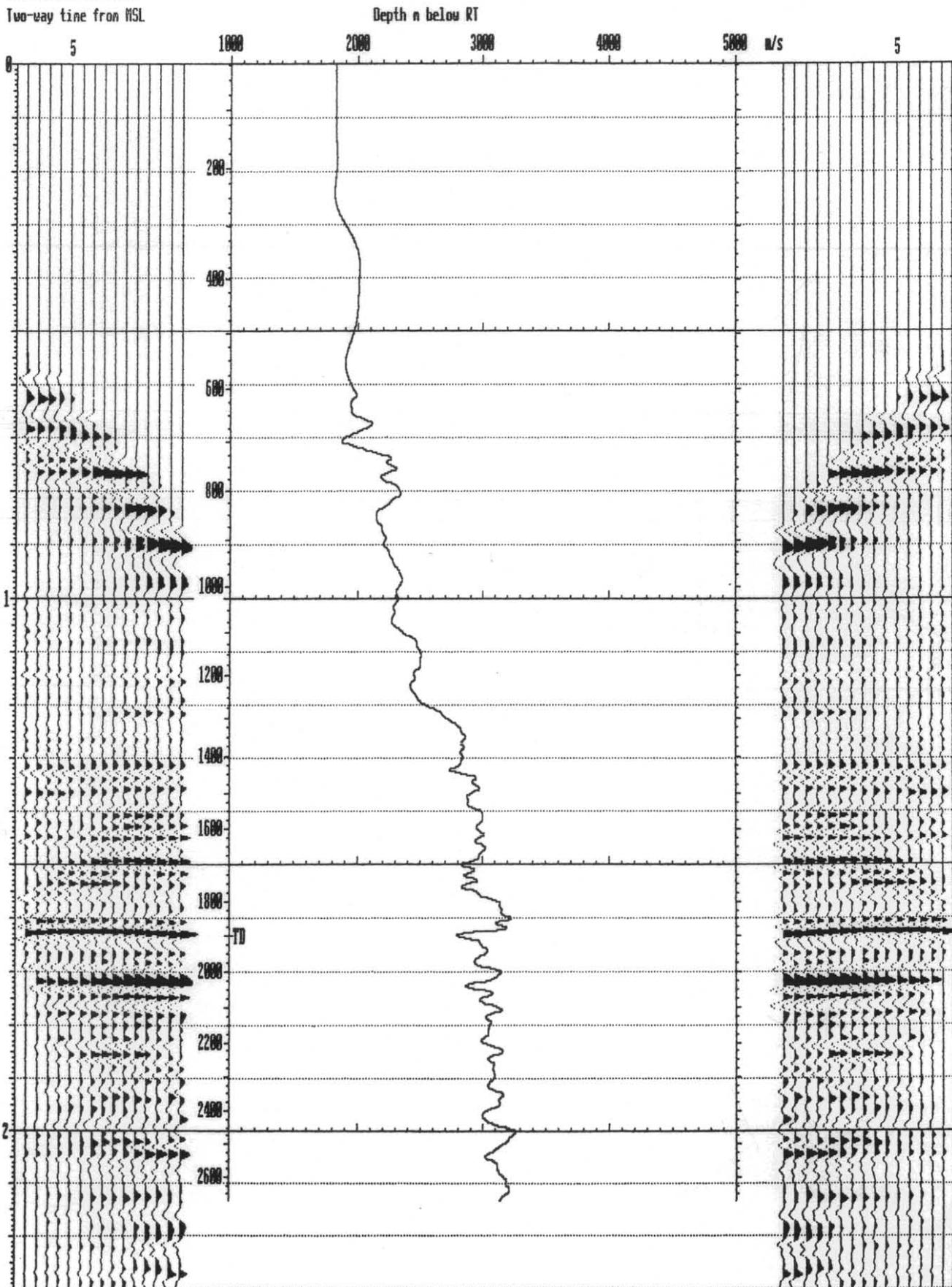
SAGASCO RESOURCES LTD

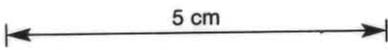
Seismograph Service
Delta-t INVERT Release 5.05
21/11/1992 14:39

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns
Inversion filter: 5,10,50,70Hz

Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Time scale: 3.75in/s
Two-way time from NSL





296225

KING #1

Trace Inversion (Source 1)

Phase 7

SAGASCO RESOURCES LTD

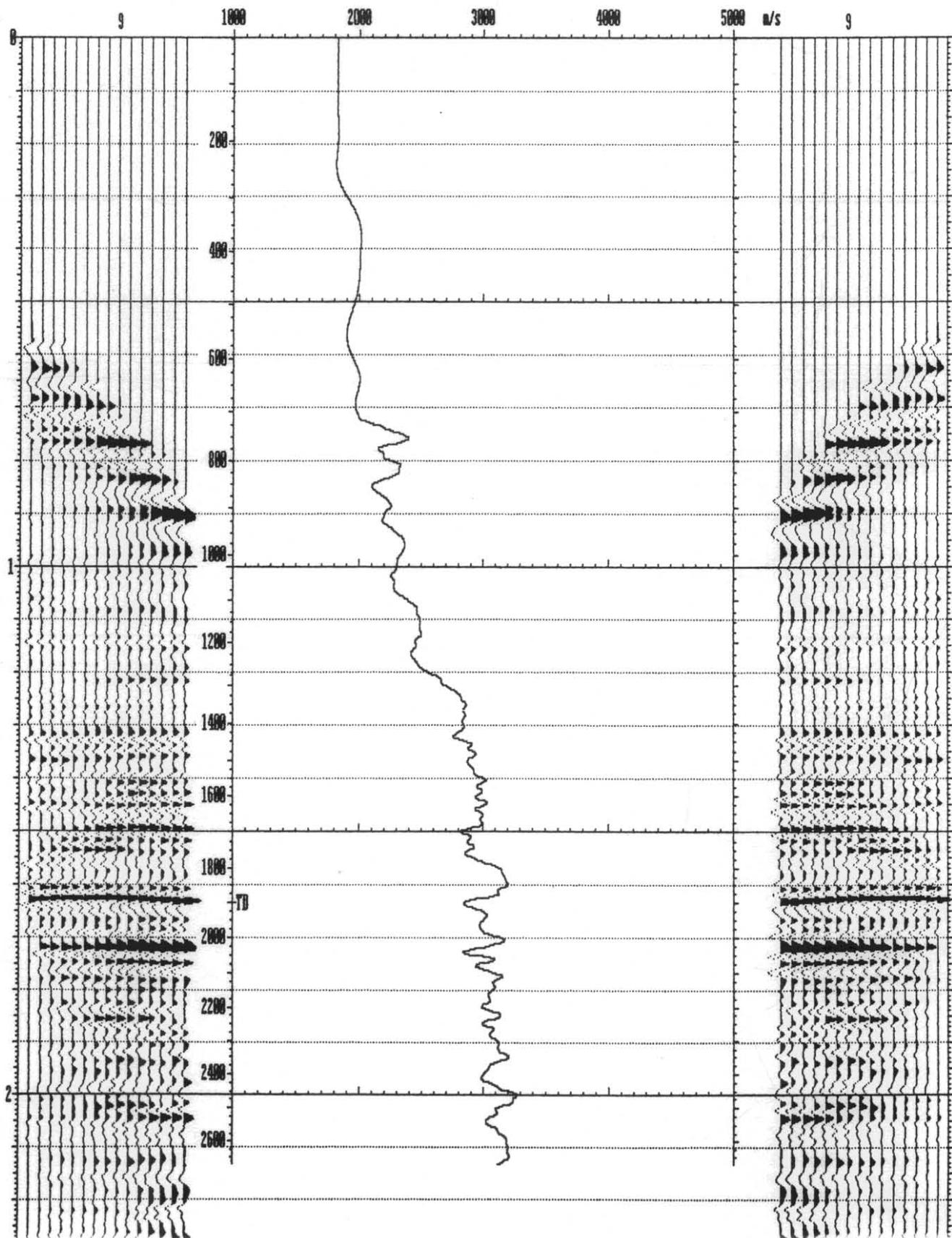
Seismograph Service
Delta-t INVERT Release 5.05
21/11/1992 14:58

Designature: 500ns window
Filter: 5,10,65,80Hz
Amplitude recovery: t(1.3)
Downwave median: 9:1
Multiple suppression: 500ns window
Tracking filter median: 7:1
Search: 0,0 Accept: 0,0 ns
Inversion filter: 5,10,50,70Hz

Plot polarity: SEG normal
Plot filter: 5,10,50,70Hz

Time scale: 3.75in/s
Two-way time from NSL

Depth n below RT



KING #1

Inverted Transposed VSP (trace 9)
(PDAQ in-field processing)

21/11/1992 14:57

SAGASCO RESOURCES LTD
Seismograph ServiceTWT below MSL
TVD below RT

TWT(ms)	TVD(m)	V(m/s)	(us/ft)	TWT(ms)	TVD(m)	V(m/s)	(us/ft)
1624	1886	2990	101	1625	1888	2935	103
1626	1889	2935	103	1627	1891	2887	105
1628	1892	2887	105	1629	1894	2855	106
1630	1895	2855	106	1631	1896	2840	107
1632	1898	2840	107	1633	1899	2839	107
1634	1901	2839	107	1635	1902	2850	106
1636	1904	2850	106	1637	1905	2867	106
1638	1906	2867	106	1639	1908	2887	105
1640	1909	2887	105	1641	1911	2909	104
1642	1912	2909	104	1643	1914	2933	103
1644	1915	2933	103	1645	1917	2957	103
1646	1918	2957	103	1647	1920	2982	102
1648	1921	2982	102	1649	1923	3004	101
1650	1924	3004	101	1651	1926	3020	100
1652	1927	3020	100	1653	1929	3031	100
1654	1930	3031	100	1655	1932	3034	100
1656	1933	3034	100	1657	1935	3032	100
1658	1936	3032	100	1659	1938	3026	100
1660	1939	3026	100	1661	1941	3017	101
1662	1942	3017	101	1663	1944	3007	101
1664	1945	3007	101	1665	1947	2997	101
1666	1948	2997	101	1667	1950	2988	102
1668	1951	2988	102	1669	1953	2979	102
1670	1954	2979	102	1671	1956	2972	102
1672	1957	2972	102	1673	1959	2968	102
1674	1960	2968	102	1675	1962	2967	102
1676	1963	2967	102	1677	1965	2969	102
1678	1966	2969	102	1679	1968	2973	102
1680	1969	2973	102	1681	1971	2978	102
1682	1972	2978	102	1683	1974	2985	102
1684	1975	2985	102	1685	1977	2993	101
1686	1978	2993	101	1687	1980	3004	101
1688	1981	3004	101	1689	1983	3021	100
1690	1984	3021	100	1691	1986	3044	100
1692	1987	3044	100	1693	1989	3074	99
1694	1990	3074	99	1695	1992	3106	98
1696	1993	3106	98	1697	1995	3137	97
1698	1996	3137	97	1699	1998	3162	96
1700	2000	3162	96	1701	2001	3176	95
1702	2003	3176	95	1703	2004	3178	95
1704	2006	3178	95	1705	2008	3168	96
1706	2009	3168	96	1707	2011	3148	96
1708	2012	3148	96	1709	2014	3121	97
1710	2015	3121	97	1711	2017	3090	98
1712	2018	3090	98	1713	2020	3056	99
1714	2022	3056	99	1715	2023	3017	101
1716	2025	3017	101	1717	2026	2975	102
1718	2028	2975	102	1719	2029	2930	104
1720	2030	2930	104	1721	2032	2886	105
1722	2033	2886	105	1723	2035	2853	106
1724	2036	2853	106	1725	2038	2837	107
1726	2039	2837	107	1727	2040	2846	107
1728	2042	2846	107	1729	2043	2881	105
1730	2045	2881	105	1731	2046	2937	103
1732	2048	2937	103	1733	2049	3001	101
1734	2051	3001	101	1735	2052	3057	99
1736	2054	3057	99	1737	2055	3094	98
1738	2057	3094	98	1739	2058	3102	98

KING #1

Inverted Transposed VSP (trace 9)
(PDAQ in-field processing)

21/11/1992 14:55

SAGASCO RESOURCES LTD
Seismograph ServiceTWT below MSL
TVD below RT

TWT(ms)	TVD(m)	V(m/s)	(us/ft)	TWT(ms)	TVD(m)	V(m/s)	(us/ft)
1850	2228	3127	97	1851	2230	3103	98
1852	2231	3103	98	1853	2233	3071	99
1854	2234	3071	99	1855	2236	3038	100
1856	2237	3038	100	1857	2239	3009	101
1858	2241	3009	101	1859	2242	2992	101
1860	2244	2992	101	1861	2245	2990	101
1862	2246	2990	101	1863	2248	3003	101
1864	2249	3003	101	1865	2251	3027	100
1866	2253	3027	100	1867	2254	3054	99
1868	2256	3054	99	1869	2257	3077	99
1870	2259	3077	99	1871	2260	3090	98
1872	2262	3090	98	1873	2263	3091	98
1874	2265	3091	98	1875	2266	3083	98
1876	2268	3083	98	1877	2269	3070	99
1878	2271	3070	99	1879	2273	3058	99
1880	2274	3058	99	1881	2276	3052	99
1882	2277	3052	99	1883	2279	3052	99
1884	2280	3052	99	1885	2282	3059	99
1886	2283	3059	99	1887	2285	3071	99
1888	2286	3071	99	1889	2288	3085	98
1890	2289	3085	98	1891	2291	3098	98
1892	2292	3098	98	1893	2294	3110	98
1894	2296	3110	98	1895	2297	3119	97
1896	2299	3119	97	1897	2300	3125	97
1898	2302	3125	97	1899	2303	3127	97
1900	2305	3127	97	1901	2307	3127	97
1902	2308	3127	97	1903	2310	3126	97
1904	2311	3126	97	1905	2313	3123	97
1906	2314	3123	97	1907	2316	3120	97
1908	2317	3120	97	1909	2319	3119	97
1910	2321	3119	97	1911	2322	3121	97
1912	2324	3121	97	1913	2325	3127	97
1914	2327	3127	97	1915	2328	3138	97
1916	2330	3138	97	1917	2332	3152	96
1918	2333	3152	96	1919	2335	3170	96
1920	2336	3170	96	1921	2338	3187	95
1922	2339	3187	95	1923	2341	3201	95
1924	2343	3201	95	1925	2344	3208	95
1926	2346	3208	95	1927	2347	3205	95
1928	2349	3205	95	1929	2351	3191	95
1930	2352	3191	95	1931	2354	3168	96
1932	2355	3168	96	1933	2357	3140	97
1934	2359	3140	97	1935	2360	3112	97
1936	2362	3112	97	1937	2363	3087	98
1938	2365	3087	98	1939	2366	3070	99
1940	2368	3070	99	1941	2369	3059	99
1942	2371	3059	99	1943	2372	3053	99
1944	2374	3053	99	1945	2375	3049	99
1946	2377	3049	99	1947	2379	3045	100
1948	2380	3045	100	1949	2382	3039	100
1950	2383	3039	100	1951	2385	3032	100
1952	2386	3032	100	1953	2388	3024	100
1954	2389	3024	100	1955	2391	3016	101
1956	2392	3016	101	1957	2394	3008	101
1958	2395	3008	101	1959	2397	3000	101
1960	2398	3000	101	1961	2400	2992	101
1962	2401	2992	101	1963	2403	2984	102
1964	2404	2984	102	1965	2406	2978	102

296228

21/11/1992 14:52

KING #1

Inverted Transposed VSP (trace 9)
(PDAQ in-field processing)SAGASCO RESOURCES LTD
Seismograph ServiceTWT below MSL
TVD below RT

TWT(ms)	TVD(m)	V(m/s)	(us/ft)	TWT(ms)	TVD(m)	V(m/s)	(us/ft)
1500	1699	2825	107	1501	1700	2838	107
1502	1702	2838	107	1503	1703	2860	106
1504	1704	2860	106	1505	1706	2883	105
1506	1707	2883	105	1507	1709	2900	105
1508	1710	2900	105	1509	1712	2906	104
1510	1713	2906	104	1511	1715	2901	105
1512	1716	2901	105	1513	1717	2889	105
1514	1719	2889	105	1515	1720	2875	106
1516	1722	2875	106	1517	1723	2868	106
1518	1725	2868	106	1519	1726	2870	106
1520	1727	2870	106	1521	1729	2882	105
1522	1730	2882	105	1523	1732	2899	105
1524	1733	2899	105	1525	1735	2916	104
1526	1736	2916	104	1527	1738	2925	104
1528	1739	2925	104	1529	1741	2922	104
1530	1742	2922	104	1531	1743	2910	104
1532	1745	2910	104	1533	1746	2890	105
1534	1748	2890	105	1535	1749	2870	106
1536	1751	2870	106	1537	1752	2856	106
1538	1754	2856	106	1539	1755	2850	106
1540	1756	2850	106	1541	1758	2856	106
1542	1759	2856	106	1543	1761	2870	106
1544	1762	2870	106	1545	1764	2888	105
1546	1765	2888	105	1547	1766	2908	104
1548	1768	2908	104	1549	1769	2927	104
1550	1771	2927	104	1551	1772	2946	103
1552	1774	2946	103	1553	1775	2964	102
1554	1777	2964	102	1555	1778	2986	102
1556	1780	2986	102	1557	1781	3011	101
1558	1783	3011	101	1559	1784	3041	100
1560	1786	3041	100	1561	1787	3072	99
1562	1789	3072	99	1563	1790	3101	98
1564	1792	3101	98	1565	1794	3125	97
1566	1795	3125	97	1567	1797	3141	97
1568	1798	3141	97	1569	1800	3150	96
1570	1801	3150	96	1571	1803	3153	96
1572	1805	3153	96	1573	1806	3154	96
1574	1808	3154	96	1575	1809	3155	96
1576	1811	3155	96	1577	1812	3159	96
1578	1814	3159	96	1579	1816	3165	96
1580	1817	3165	96	1581	1819	3171	96
1582	1820	3171	96	1583	1822	3176	95
1584	1823	3176	95	1585	1825	3179	95
1586	1827	3179	95	1587	1828	3181	95
1588	1830	3181	95	1589	1831	3184	95
1590	1833	3184	95	1591	1835	3189	95
1592	1836	3189	95	1593	1838	3197	95
1594	1839	3197	95	1595	1841	3204	95
1596	1843	3204	95	1597	1844	3206	95
1598	1846	3206	95	1599	1847	3200	95
1600	1849	3200	95	1601	1851	3185	95
1602	1852	3185	95	1603	1854	3163	96
1604	1855	3163	96	1605	1857	3141	97
1606	1859	3141	97	1607	1860	3124	97
1608	1862	3124	97	1609	1863	3116	97
1610	1865	3116	97	1611	1866	3118	97
1612	1868	3118	97	1613	1869	3124	97
1614	1871	3124	97	1615	1873	3127	97

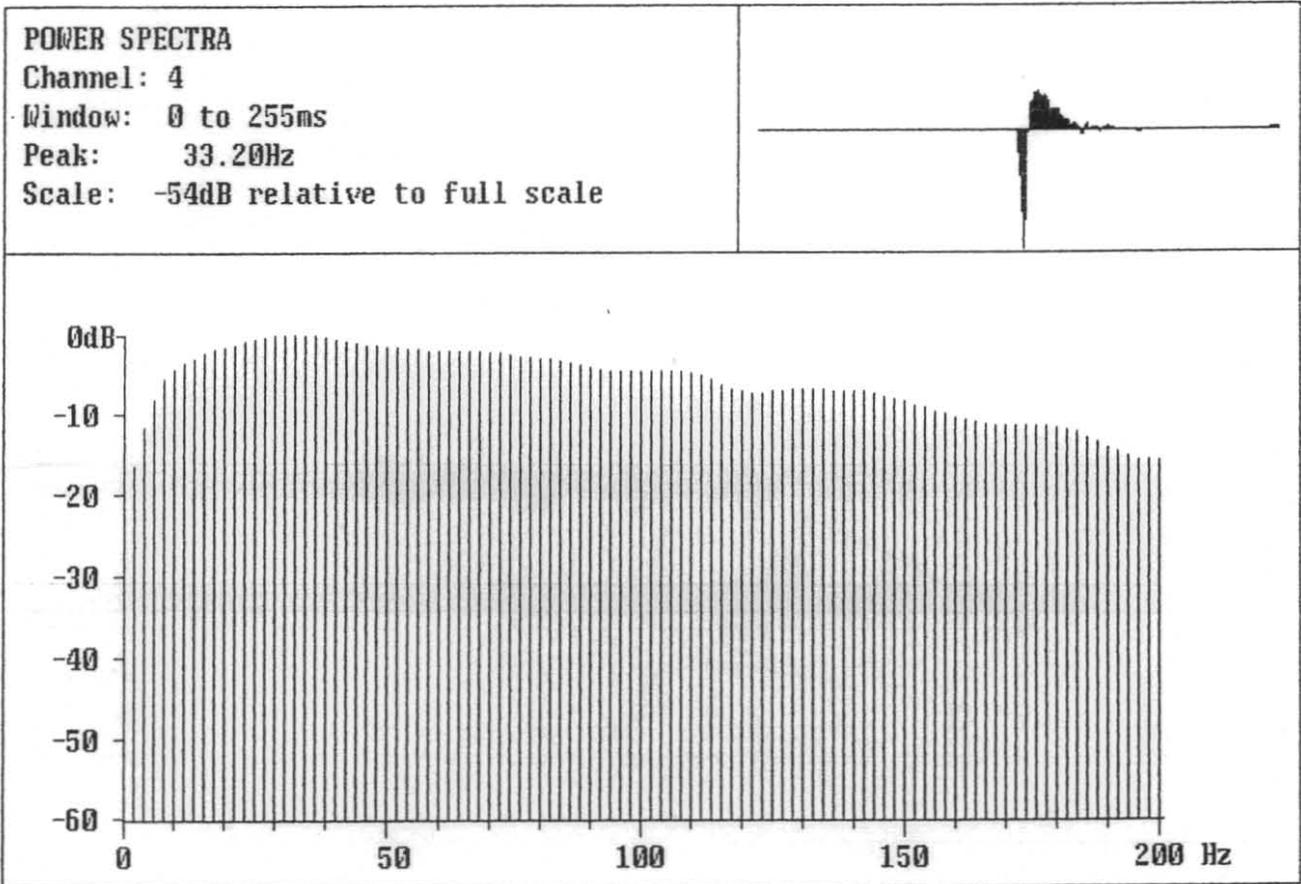
SAGASCO RESOURCES LTD

Seismograph Service

Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:500.0m Level:2 Record:3



5 cm

KING #1

Spectral Analysis

SAGASCO RESOURCES LTD

Seismograph Service

Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:500.0m Level:2 Record:3

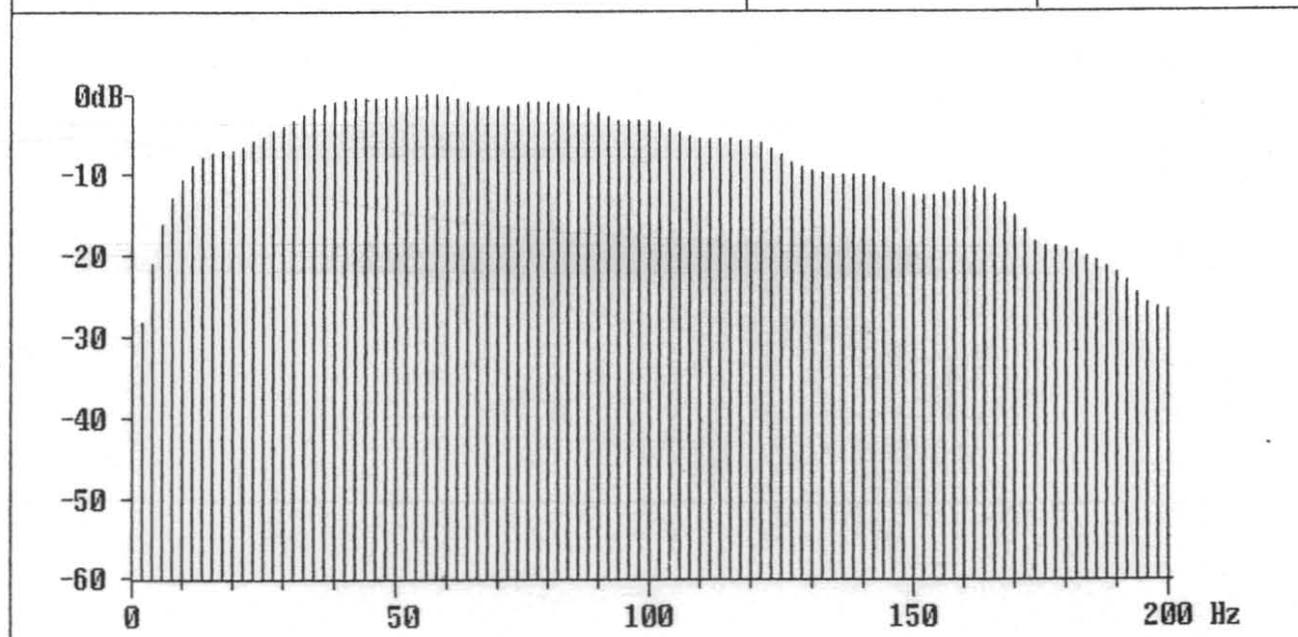
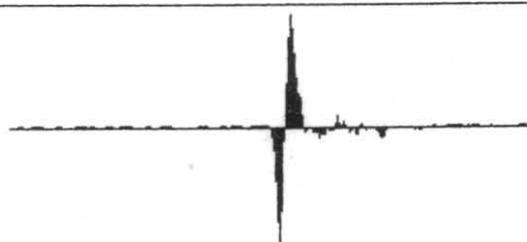
POWER SPECTRA

Channel: 1

Window: 117 to 372ms

Peak: 56.64Hz

Scale: -44dB relative to full scale



5 cm

KING #1

Spectral Analysis

SAGASCO RESOURCES LTD

Seismograph Service

Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:1000.0m Level:3 Record:6

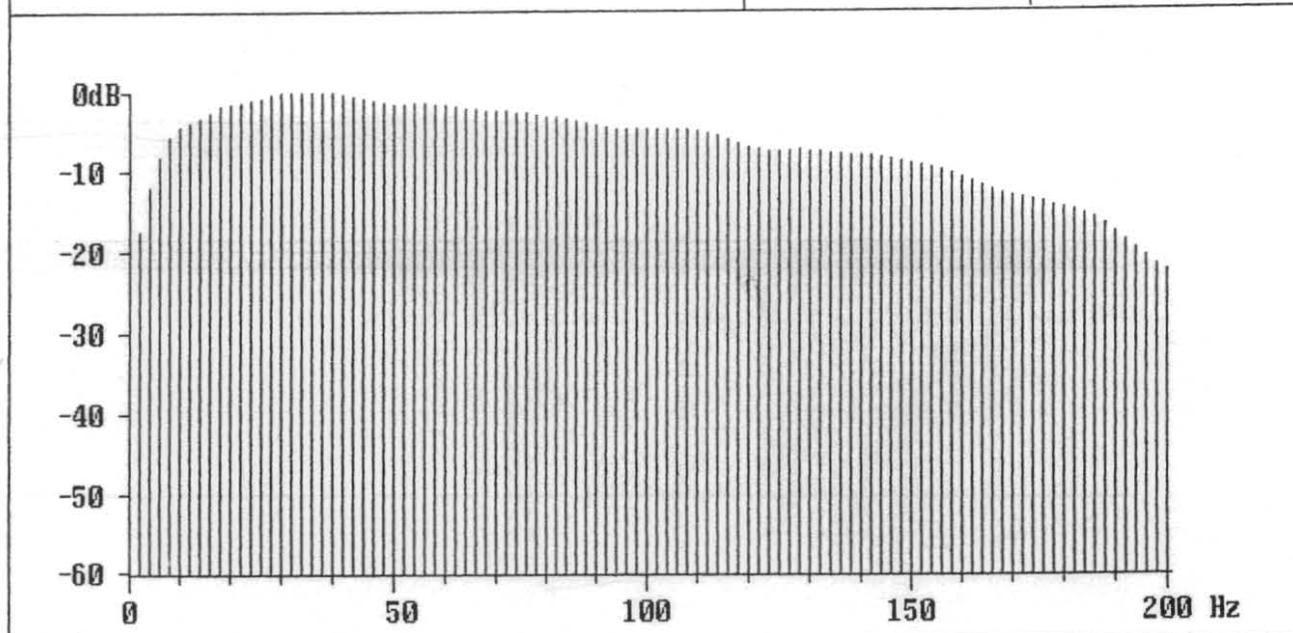
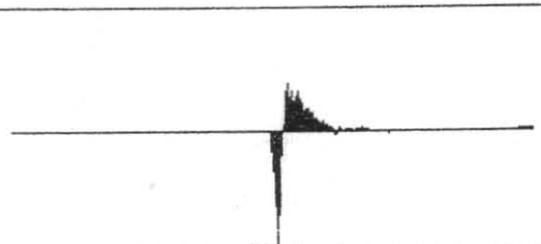
POWER SPECTRA

Channel: 4

Window: 0 to 255ms

Peak: 35.16Hz

Scale: -53dB relative to full scale



5 cm

SAGASCO RESOURCES LTD
Seismograph Service
Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:1000.0m Level:3 Record:6

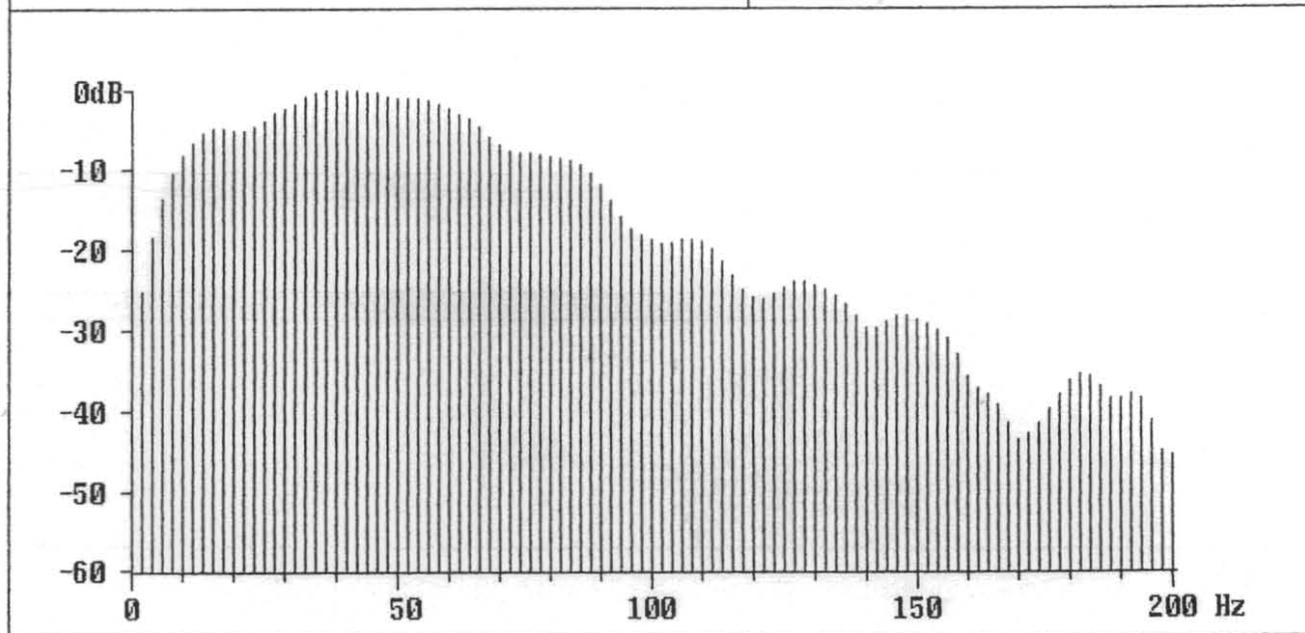
POWER SPECTRA

Channel: 1

Window: 359 to 614ms

Peak: 37.11Hz

Scale: -54dB relative to full scale



5 cm

KING #1

Spectral Analysis

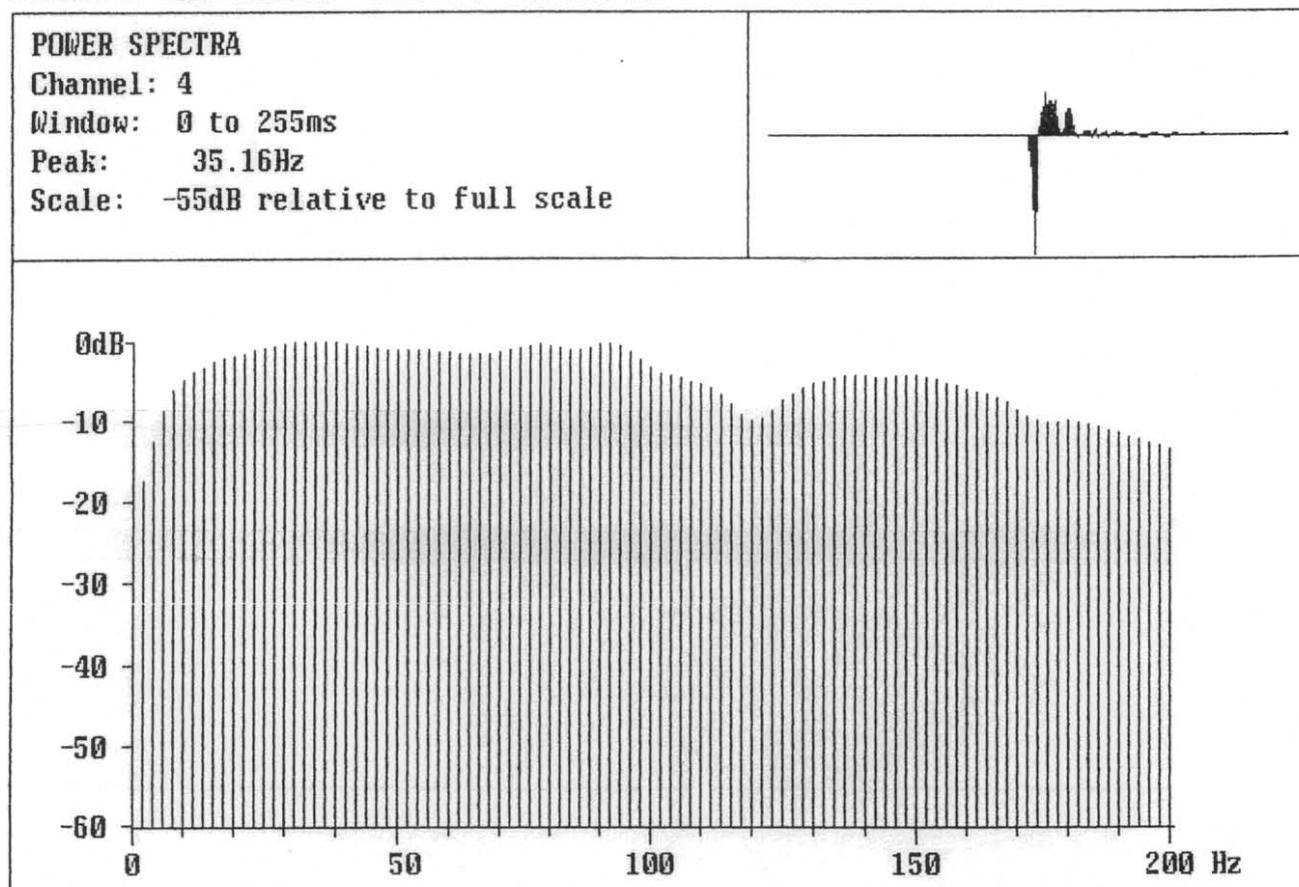
SAGASCO RESOURCES LTD

Seismograph Service

Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:1500.0m Level:4 Record:10



SAGASCO RESOURCES LTD

Seismograph Service

Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:1500.0m Level:4 Record:10

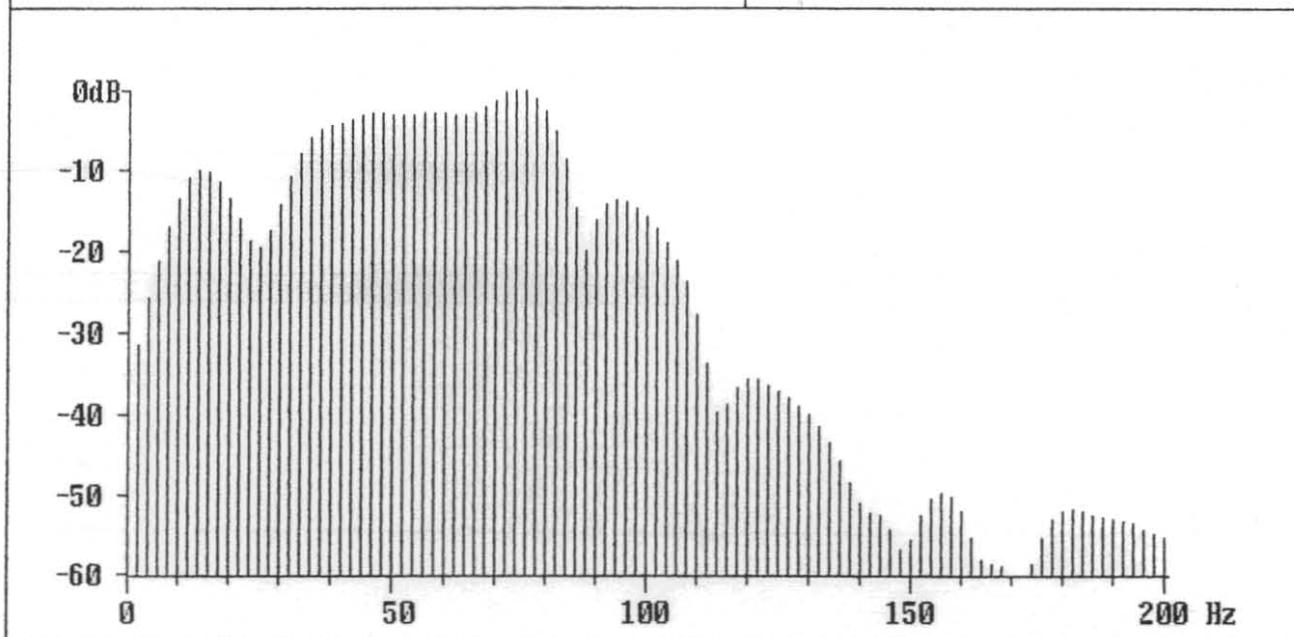
POWER SPECTRA

Channel: 1

Window: 553 to 808ms

Peak: 74.22Hz

Scale: -55dB relative to full scale



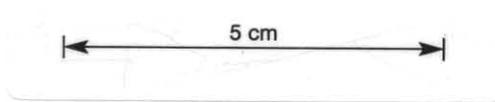
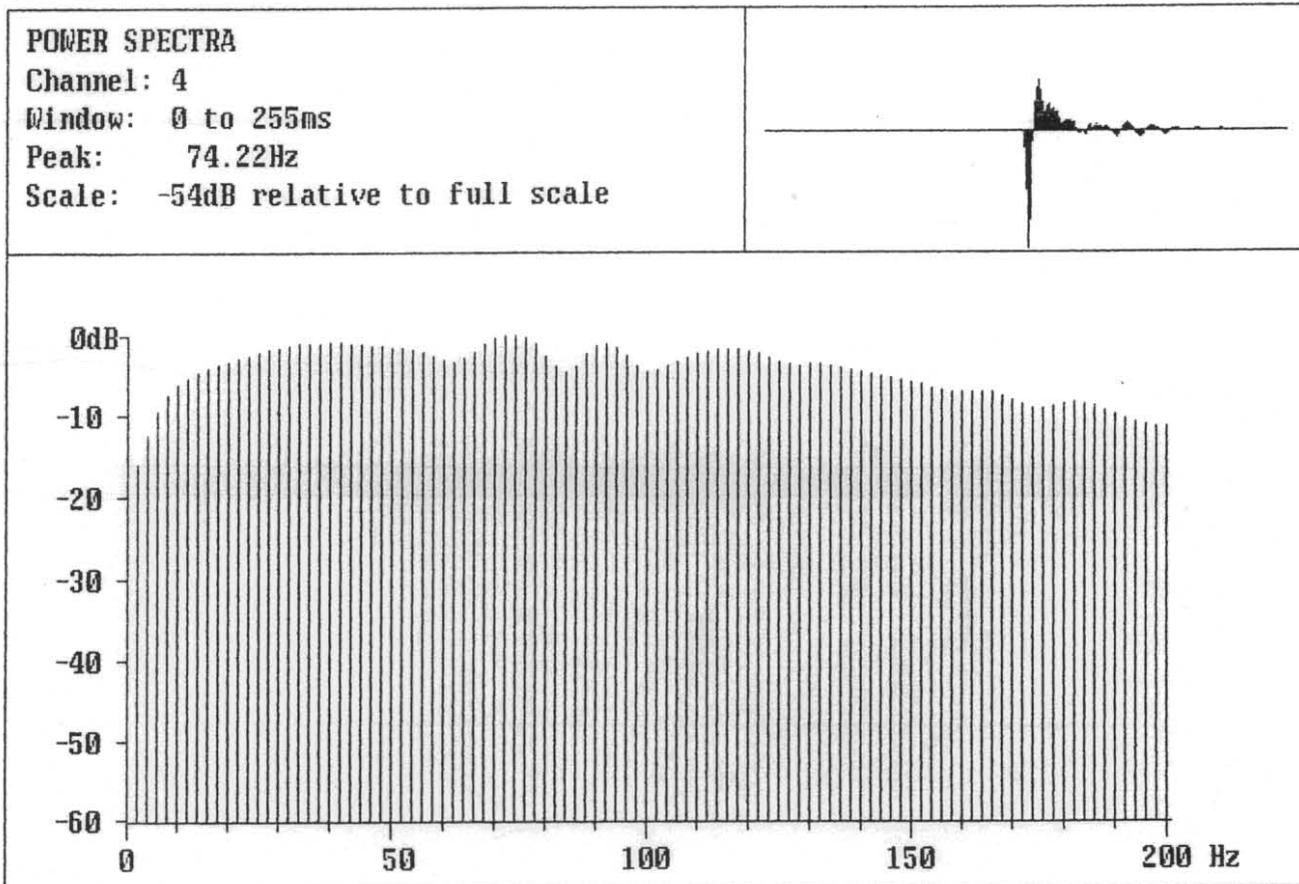
5 cm

SAGASCO RESOURCES LTD

Seismograph Service
Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:1900.0m Level:5 Record:14



SAGASCO RESOURCES LTD

Seismograph Service

Delta-t DAQSYS Release 5.05

Survey date: 21st November 1992

Source:1 MD:1900.0m Level:5 Record:14

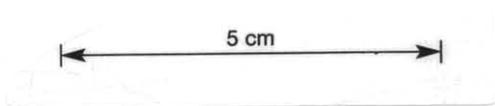
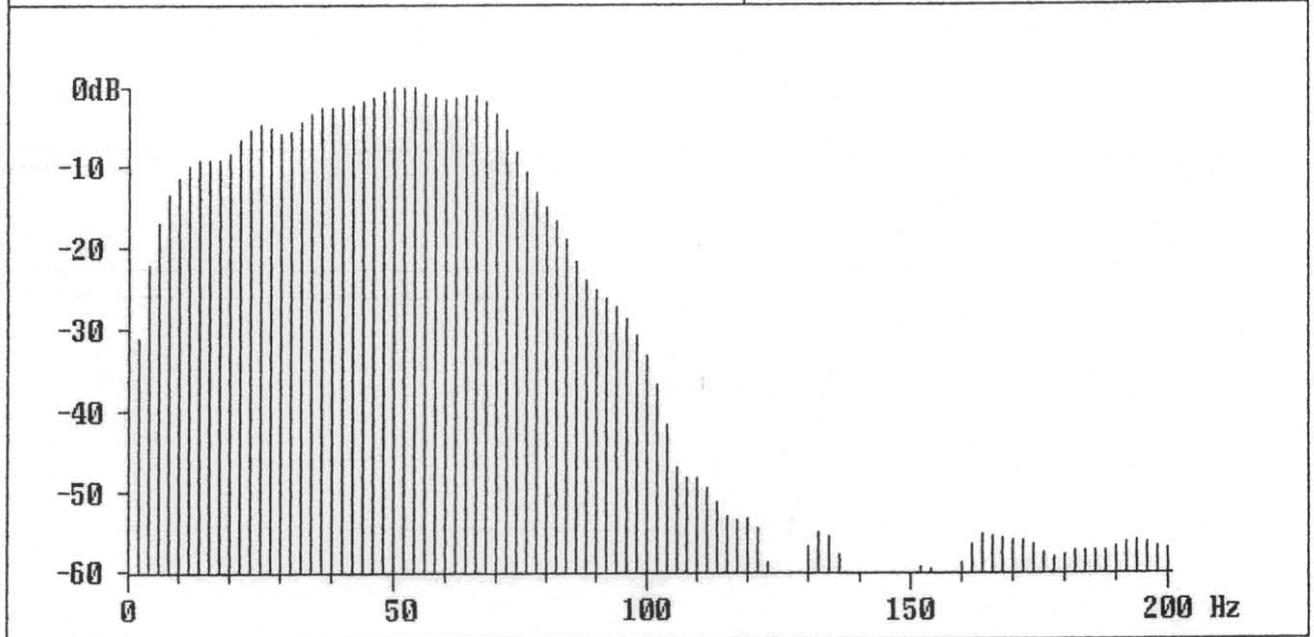
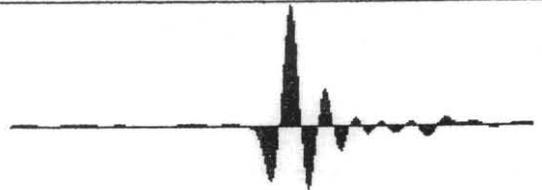
POWER SPECTRA

Channel: 1

Window: 687 to 942ms

Peak: 52.73Hz

Scale: -62dB relative to full scale



7 CATALOGUE OF WELLSITE SAMPLES

CATALOGUE OF WELLSITE SAMPLES**A 12 Boxes of Washed and Dried, Split Samples**

INTERVAL	BOX NO	DESTINATION
400-1284m	1	SAGASCO
1284-1551m	2	SAGASCO
1551-1800m	3	SAGASCO
1800-2223m	4	SAGASCO
400-1284m	1	BUREAU OF MINERAL RESOURCES
1284-1551m	2	BUREAU OF MINERAL RESOURCES
1551-1800m	3	BUREAU OF MINERAL RESOURCES
1800-2223m	4	BUREAU OF MINERAL RESOURCES
400-1284m	1	DEPARTMENT OF MINERAL RESOURCES
1284-1551m	2	DEPARTMENT OF MINERAL RESOURCES
1551-1800m	3	DEPARTMENT OF MINERAL RESOURCES
1800-2223m	4	DEPARTMENT OF MINERAL RESOURCES

B 7 Boxes Washed and Dried Cutting Samples

INTERVAL	BOX NO	DESTINATION
400-900m	1	SAGASCO
900-1281m	2	SAGASCO
1281-1395m	3	SAGASCO
1410-1554m	4	SAGASCO
1554-1794m	5	SAGASCO
1794-2001m	6	SAGASCO
2001-2223m	7	SAGASCO

C 2 Boxes of Unwashed Cutting Samples and Fission Track Samples

INTERVAL	BOX NO	DESTINATION
400-1690m	1	SAGASCO
1690-2220m	2	SAGASCO
FISSION TRACK	2	SAGASCO
1411-1441m		
1785-1803m		
2115-2145m		

MRC9211051-ACM

D 2 Boxes of Flowline-Mud Samples and Mud Filtrate (to SAGASCO)

E 1 Box of Samplex Trays (to Gas & Fuel)

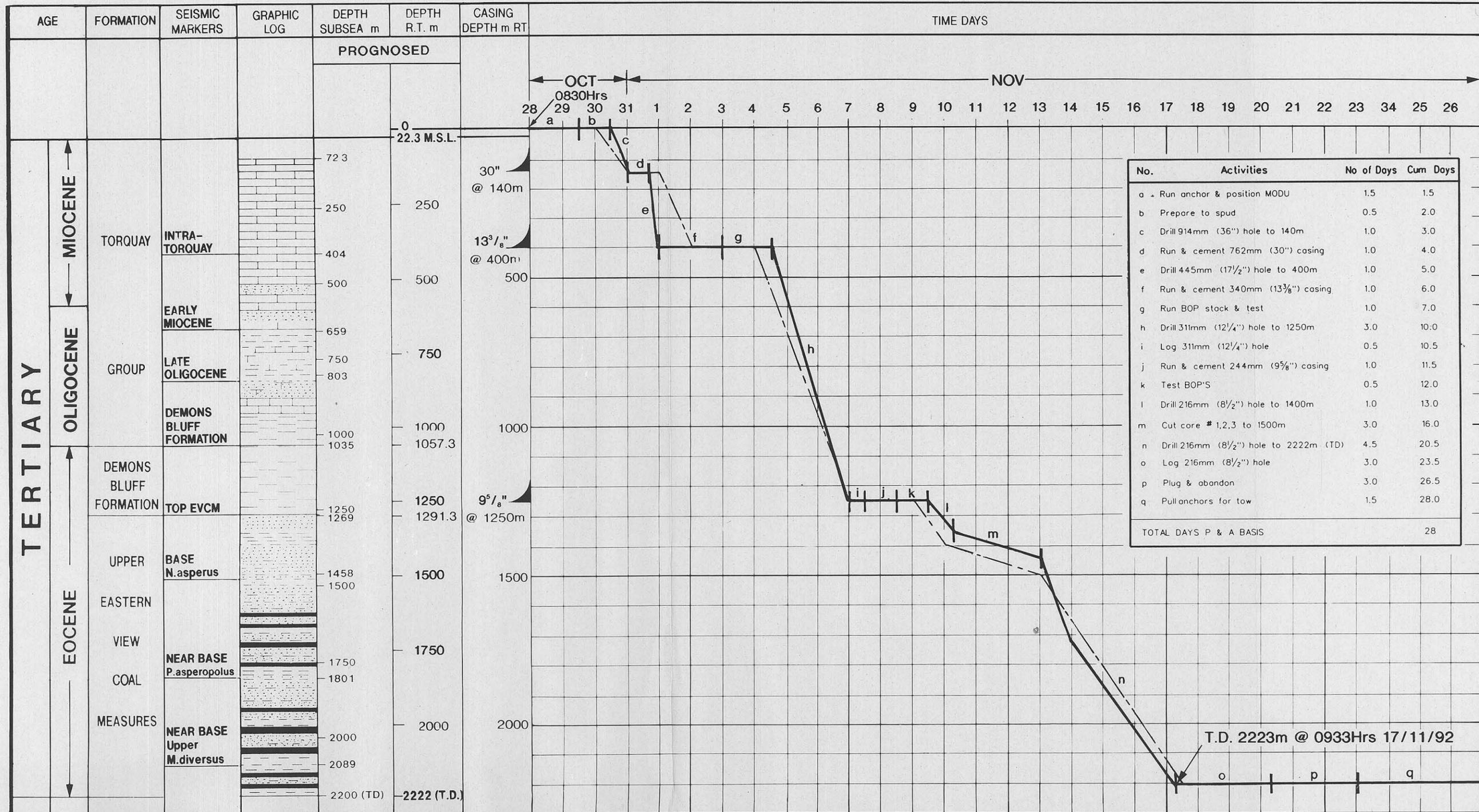
F 1 Box of Core Chips (to SAGASCO)

G 1 Box of Gas Cylinders (to SAGASCO)

H Whole cores stored Amdel, Adelaide for further work and slabbing

Core 1	Recovered 3.5 m in 4 boxes
Core 2	Recovered 5.7 m in 6 boxes
Core 3	Recovered 9.4 m in 10 boxes
Core 4	Recovered 5.0 m in 5 boxes

8 TIME-DEPTH CURVE



LEGEND

- SANDSTONE
- SHALE & SILTSTONE
- LIMESTONE
- COAL

PROPOSED DRILLING CURVE - - - - -
 ACTUAL DRILLING CURVE - - - - -

5 cm

WELL LOCATION DATA: LAT: 39°35'331"S
 LONG: 145°31'780"E
 SEISMIC LINE : HB 77A - 306
 SHOT POINT : 300

WATER DEPTH MEASURED: 72.3m
 R.T.: M.S.L. = 22.3m
 T.D.: 2223m R.T.
 SUB SEA (SS) DEPTHS ALL MEAN SEALEVEL (MSL)

SPUD DATE: 1500Hrs 30th Oct, 1992
 RIG RELEASED: 1730Hrs 27th Nov, 1992

BASS BASIN - TASMANIA
T/18P
KING 1 - TIME DEPTH DRILLING CURVE

AUTHOR: A.Migliucci DATE: Nov 1992 PLAN: BAS00.9740
 DRAWN: P. Oldham DATUM: CHECKED
 SCALE: As shown CONTOUR INT. FIG

SAGASCO Resources Limited
 PH 235 3737 Fax 223 1851 Interstate prefix 08 International prefix 618 A.C.N. 007 045 338

TERTIARY

MIOCENE

OLIGOCENE

EOCENE

TORQUAY

INTRA-TORQUAY

EARLY MIOCENE

GROUP

LATE OLIGOCENE

DEMONS BLUFF FORMATION

DEMONS BLUFF FORMATION

TOP EVCM

UPPER

BASE N.asperus

EASTERN

VIEW

NEAR BASE P.asperopolus

COAL

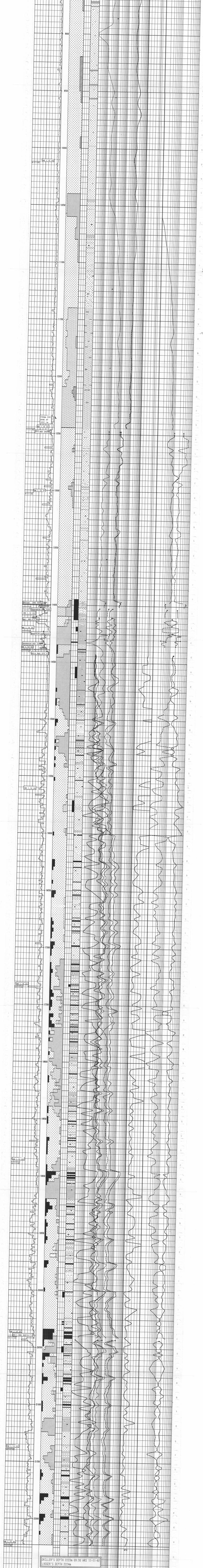
MEASURES

NEAR BASE Upper M.diversus

MRC9211051-ACM

ENCLOSURES

1 **Formation Evaluation Log (Mudlog 1:500) & Gas Ratio Log**



DRILLER'S DEPTH 2223m 09:30 HRS 17-11-92
 LOGGER'S DEPTH 2224m

30. ROP min/m	0	2250	17m	TOTAL GAS ppm	1000000	GRatio	1	Wh Ratio	100
CONVERT	W = 306			C1 ppm	100000			Sh Ratio	100
SHR				C2 ppm	100000				
				C3 ppm	100000				
				C4 ppm	100000				
				C5 ppm	100000				
				CO2 ppm	100000				

2 **Log Analysis Plot (ULTRA Interpretation 1:500 Scale)**

Company : SAGASCO RESOURCES LTD.
Well : KING-1
Field : EXPLORATION
Province : BASS BASIN
State : TASMANIA
Date : 18th November 1992

ULTRA COMPLEX LITHOLOGY ANALYSIS
PRELIMINARY RESULTS AND COMMENTS

Data Availability and Log Quality

The following services were run on the King-1 well:

High Resolution Induction (HRI)
Microspherical (MSFL)
Sonic
Spectral Density (SDL)
Dual Spaced Neutron (DSN)
Compensated Spectral Gamma (CSNG)
High Frequency Dielectric (HFDT)

Firstly, the data was depth-matched to the HRI curves then environmental and borehole corrections were applied. Virtually no borehole correction was required for the HRI

Parameter Selection - Zoning

The well was divided into 3 principal zones based on the general character of the data:

1250m - 1397m
1397m - 1541m
1541m - 2205m

The upper zone (1250m - 1397m) consists of claystones and siltstones. The massive claystone from 1345m - 1390m is inter-bedded with hard carbonate/calcite stringers. The "cleaner" intervals in this zone have high porosity but the low Rt indicates that they are water wet.

The zone from 1397m- 1451m presented special problems in the interpretation. The sands from 1458m - 1475m and from 1515 - 1522m show very low and apparently erratic Rt values compared with the other sands in the well. These low values were interpreted as due to low concentrations of Pyrite which is very conductive. To allow for this the Simandoux equation with Pyrite as the conductive mineral was chosen as the saturation equation.

Perhaps the most difficult problem to overcome was the apparently high values of Pe in the sand bodies throughout the well. For perfectly clean sand one would expect to see a Pe value of around 2. However, this is not the case in this well. These apparently high values were interpreted as carbonate cementation, therefore Siderite and a ferrous carbonate of variable radio-active content were introduced into the model. The only ambiguous point was between 1529m and 1533m. However, the low Pe values here were thought to be due to carbonaceous material (this interpretation is consistent with the rest of the well).

Zircon was included in the model to compensate for high gamma ray and Pe values. However, only very small percentages were found in the final interpretation.

The bottom zone (1541m - 2205m) exhibits claystones of variable composition with occasional sandstones and siltstones. There are well defined coalbeds and the siltstones and sandstones contain carbonaceous material. The high Pe values indicate carbonate cement.

due to small borehole (8 1/2") and fresh mud system. Estimates of R_t , R_{xo} and diameter of invasion were obtained using an interactive invasion correction routine applied to the HRI's deep, medium and digitally focussed logs in conjunction with the MSFL data.

Log quality of the pad devices was good due to excellent hole conditions.

Parameter Selection - General

Study of the core data and mud logs indicated that the principal formation components would be claystones interbedded with sandstones and siltstones. However, the data indicated that other minerals were to be expected also. Of particular interest due to their log responses were the inclusion of Mica, Zircon and Pyrite. Mica is of variable radio-active content and affects all the spectral gamma ray curves. Zircon is very dense and has a high P_e value. Pyrite is a very conductive mineral and will tend to reduce resistivity where it is present.

The saturation equation parameters were chosen as follows:

$$a = 0.65$$

$$m = 2.15$$

$$n = 2.0$$

The ULTRA minimisation technique confirmed these values as reasonable.

Parameter Selection - Formation Water Resistivity (R_w)

An initial value of 0.075 Ohmm @ 191 Deg.F was chosen from the SP and R_{wa} crossplots. However, using ULTRA's multi-dimensional crossplot technique, it soon became evident that a value of 0.06 Ohmm @ 191 Deg.F (45 Kppm NaCl equivalent) was giving less error in the minimisation. This value was used for the whole of the interpreted interval.

Parameter Selection - Clay

Selection of clay parameters was based on the Thorium versus Potassium crossplot. This suggested heavier clays and chlorites. However, clays have notoriously variable properties and the parameters used in the interpretation have been varied depending on the quality of fit between the raw and theoretical curves.

