Lampiran - 1

Data Koordinat XY

Tabel L.1.1. Data koordinat XY

Koordinat Geophone	Koordinat Shot Point
S5280, X722330. 94, Y106134. 74,	PT5281, X722345. 97, Y106135. 96,
S5281, X722361. 00, Y106136. 89,	PT5282, X722375. 97, Y106137. 81,
S5282, X722390. 88, Y106139. 49,	PT5283, X722405. 72, Y106141. 16,
S5283, X722420. 69, Y106142. 49,	PT5284, X722435. 63, Y106143. 81,
S5284, X722450. 75, Y106144. 63,	PT5285, X722465. 54, Y106145. 44,
S5285, X722480. 81, Y106146. 62,	PT5286, X722495. 77, Y106147. 80,
S5286, X722510. 69, Y106149. 00,	PT5287, X722525. 65, Y106150. 20,
S5287, X722540. 63, Y106151. 25,	PT5288, X722555. 61, Y106152. 30,
S5288, X722570. 69, Y106153. 64,	PT5289, X722585. 70, Y106154. 98,
S5289, X722600. 75, Y106156. 27,	PT5290, X722615. 82, Y106157. 56,
S5290, X722630. 75, Y106158. 82,	PT5291, X722645. 72, Y106160. 07,
S5291, X722660. 75, Y106161. 43,	PT5292, X722675. 73, Y106162. 79,
S5292, X722690. 81, Y106164. 12,	PT5293, X722705. 95, Y106165. 28,
S5293, X722720. 94, Y106166. 72,	PT5294, X722735. 88, Y106168. 16,
S5294, X722750. 88, Y106169. 35,	PT5295, X722765. 92, Y106170. 54,
S5295, X722780. 94, Y106171. 82,	PT5296, X722795. 94, Y106173. 10,
S5296, X722810. 75, Y106174. 37,	PT5297, X722825. 62, Y106175. 63,
S5297, X722840. 75, Y106176. 68,	PT5298, X722855. 66, Y106178. 18,
S5298, X722870. 63, Y106179. 55,	PT5299, X722885. 57, Y106180. 91,
S5299, X722900. 50, Y106182. 60,	PT5300, X722915. 44, Y106184. 29,
S5300, X722930. 56, Y106184. 94,	PT5301, X722945. 64, Y106185. 59,
S5301, X722960. 63, Y106186. 98,	PT5302, X722975. 42, Y106189. 03,
S5302, X722990. 56, Y106189. 52,	PT5303, X723005. 49, Y106190. 97,
S5303, X723020. 50, Y106192. 21,	PT5304, X723035. 54, Y106193. 44,
S5304, X723050. 69, Y106194. 59,	PT5305, X723065. 83, Y106195. 73,
S5305, X723080. 88, Y106197. 17,	PT5306, X723095. 83, Y106198. 64,
S5306, X723110. 81, Y106199. 95,	PT5307, X723125. 76, Y106201. 24,
S5307, X723140. 81, Y106202. 24,	PT5308, X723155. 81, Y106203. 23,
S5308, X723170. 81, Y106204. 48,	PT5309, X723185. 51, Y106205. 90,
S5309, X723200. 56, Y106208. 66,	PT5310, X723215. 40, Y106211. 38,
S5310, X723229. 81, Y106212. 36,	PT5311, X723244. 71, Y106212. 98,
S5311, X723259. 63, Y106218. 63,	PT5312, X723274. 92, Y106215. 90,
S5312, X723290. 06, Y106215. 92,	PT5313, X723304. 98, Y106215. 53,
S5313, X723319. 94, Y106216. 97,	PT5314, X723334. 91, Y106218. 41,
S5314, X723349. 88, Y106220. 12,	PT5315, X723364. 80, Y106221. 70,
S5315, X723379. 88, Y106224. 11,	PT5316, X723394. 65, Y106226. 21,
S5316, X723409. 38, Y106228. 08,	PT5317, X723424. 31, Y106230. 19,
S5317, X723439. 13, Y106232. 97,	PT5318, X723454. 08, Y106234. 63,
S5318, X723469. 00, Y106233. 85,	PT5319, X723484. 14, Y106232. 13,
S5319, X723499. 06, Y106232. 84,	PT5320, X723513. 93, Y106234. 45,
S5320, X723529. 06, Y106235. 30,	PT5321, X723544. 18, Y106237. 12,
S5321, X723559. 44, Y106237. 75,	PT5322, X723574. 35, Y106239. 25,
S5322, X723589. 25, Y106240. 92,	PT5323, X723604. 34, Y106241. 82,
S5323, X723619. 25, Y106242. 87,	PT5324, X723634. 16, Y106244. 52,
S5324, X723649. 13, Y106245. 81,	PT5325, X723664. 09, Y106247. 09,
S5325, X723679. 06, Y106248. 02,	PT5326, X723694. 03, Y106249. 25,
S5326, X723709. 06, Y106250. 35,	PT5327, X723724. 04, Y106251. 44,
S5327, X723738. 94, Y106252. 83,	PT5328, X723753. 86, Y106254. 21,
S5328, X723768. 81, Y106255. 30,	PT5329, X723783. 75, Y106256. 39,
S5329, X723798. 75, Y106257. 51,	PT5330, X723813. 76, Y106258. 62,
S5330, X723828. 69, Y106259. 81,	PT5331, X723843. 59, Y106260. 99,
S5331, X723858. 56, Y106262. 41,	PT5332, X723873. 54, Y106263. 82,
S5332, X723888. 56, Y106265. 34,	PT5333, X723903. 53, Y106266. 86,
S5333, X723918. 44, Y106267. 94,	PT5334, X723933. 28, Y106269. 01,
S5334, X723948. 38, Y106270. 21,	PT5335, X723963. 47, Y106271. 41,
S5335, X723978. 44, Y106272. 79,	PT5336, X723993. 35, Y106274. 16,
S5336, X724008. 50, Y106275. 64,	PT5337, X724023. 47, Y106276. 85,
S5337, X724038. 44, Y106277. 99,	PT5338, X724053. 37, Y106279. 13

S5338, X724068. 31, Y106280. 50,
S5339, X724098. 38, Y106282. 96,
S5340, X724128. 44, Y106285. 15,
S5341, X724158. 38, Y106287. 43,
S5342, X724188. 31, Y106289. 87,
S5343, X724218. 25, Y106292. 21,
S5344, X724248. 19, Y106294. 52,
S5345, X724278. 13, Y106297. 43,
S5346, X724308. 00, Y106300. 00,
S5347, X724337. 88, Y106302. 73,
S5348, X724367. 75, Y106305. 54,
S5349, X724397. 81, Y106308. 13,
S5350, X724427. 75, Y106310. 73,
S5351, X724457. 69, Y106313. 44,
S5352, X724487. 63, Y106316. 32,
S5353, X724517. 56, Y106319. 00,
S5354, X724547. 50, Y106321. 95,
S5355, X724577. 19, Y106324. 35,
S5356, X724607. 25, Y106327. 47,
S5357, X724637. 25, Y106330. 20,
S5358, X724667. 13, Y106332. 26,
S5359, X724697. 00, Y106334. 90,
S5360, X724726. 94, Y106338. 02,
S5361, X724756. 88, Y106340. 50,
S5362, X724786. 75, Y106342. 79,
S5363, X724816. 75, Y106344. 96,
S5364, X724846. 81, Y106347. 57,
S5365, X724876. 81, Y106350. 11,
S5366, X724906. 75, Y106352. 41,
S5367, X724936. 56, Y106355. 17,
S5368, X724966. 50, Y106357. 84,
S5369, X724996. 50, Y106360. 27,
S5370, X725026. 38, Y106362. 62,
S5371, X725056. 25, Y106364. 99,
S5372, X725086. 25, Y106367. 48,
S5373, X725116. 13, Y106370. 47,
S5374, X725146. 19, Y106372. 48,
S5375, X725176. 25, Y106374. 81,
S5376, X725206. 19, Y106377. 43,
S5377, X725236. 13, Y106380. 04,
S5378, X725266. 06, Y106382. 88,
S5379, X725296. 00, Y106385. 82,
S5380, X725325. 81, Y106388. 31,
S5381, X725355. 75, Y106390. 69,
S5382, X725385. 63, Y106393. 34,
S5383, X725415. 63, Y106396. 04,
S5384, X725445. 75, Y106398. 21,
S5385, X725475. 69, Y106400. 32,
S5386, X725505. 75, Y106402. 77,
S5387, X725535. 75, Y106405. 10,
S5388, X725565. 63, Y106407. 62,
S5389, X725595. 69, Y106410. 34,
S5390, X725625. 56, Y106412. 84,
S5391, X725655. 50, Y106415. 12,
S5392, X725685. 38, Y106418. 09,
S5393, X725715. 31, Y106420. 81,
S5394, X725745. 25, Y106422. 83,
S5395, X725775. 19, Y106425. 22,
S5396, X725805. 19, Y106427. 98,
S5397, X725835. 19, Y106430. 55,
S5398, X725865. 19, Y106433. 18,
S5399, X725895. 00, Y106436. 31,
S5400, X725925. 06, Y106438. 24,

PT5339, X724083. 28, Y106281. 86,
PT5340, X724113. 44, Y106284. 06,
PT5341, X724143. 42, Y106286. 23,
PT5342, X724173. 36, Y106288. 62,
PT5343, X724203. 22, Y106291. 11,
PT5344, X724233. 32, Y106293. 31,
PT5345, X724263. 13, Y106296. 11,
PT5346, X724293. 07, Y106298. 75,
PT5347, X724322. 97, Y106301. 24,
PT5348, X724352. 72, Y106304. 21,
PT5349, X724382. 79, Y106306. 86,
PT5350, X724412. 85, Y106309. 40,
PT5351, X724442. 69, Y106312. 06,
PT5352, X724472. 66, Y106314. 82,
PT5353, X724502. 54, Y106317. 82,
PT5354, X724532. 58, Y106320. 18,
PT5355, X724562. 34, Y106322. 74,
PT5356, X724592. 05, Y106326. 36,
PT5357, X724622. 38, Y106328. 57,
PT5358, X724652. 18, Y106331. 28,
PT5359, X724682. 05, Y106332. 96,
PT5360, X724711. 91, Y106336. 84,
PT5361, X724741. 94, Y106339. 19,
PT5362, X724771. 85, Y106341. 80,
PT5363, X724801. 71, Y106343. 77,
PT5364, X724831. 83, Y106346. 14,
PT5365, X724861. 79, Y106349. 00,
PT5366, X724891. 80, Y106351. 21,
PT5367, X724921. 66, Y106353. 61,
PT5368, X724951. 48, Y106356. 72,
PT5369, X724981. 53, Y106358. 96,
PT5370, X725011. 41, Y106361. 58,
PT5371, X725041. 33, Y106363. 65,
PT5372, X725071. 22, Y106366. 33,
PT5373, X725101. 34, Y106368. 63,
PT5374, X725131. 03, Y106371. 45,
PT5375, X725161. 28, Y106373. 50,
PT5376, X725191. 22, Y106376. 12,
PT5377, X725221. 15, Y106378. 74,
PT5378, X725251. 11, Y106381. 33,
PT5379, X725281. 05, Y106384. 42,
PT5380, X725310. 90, Y106387. 22,
PT5381, X725340. 75, Y106389. 39,
PT5382, X725370. 75, Y106391. 98,
PT5383, X725400. 48, Y106394. 70,
PT5384, X725430. 71, Y106397. 37,
PT5385, X725460. 80, Y106399. 05,
PT5386, X725490. 57, Y106401. 59,
PT5387, X725520. 87, Y106403. 94,
PT5388, X725550. 59, Y106406. 26,
PT5389, X725580. 67, Y106408. 97,
PT5390, X725610. 64, Y106411. 70,
PT5391, X725640. 53, Y106413. 98,
PT5392, X725670. 41, Y106416. 26,
PT5393, X725700. 29, Y106419. 95,
PT5394, X725730. 28, Y106421. 67,
PT5395, X725760. 26, Y106423. 99,
PT5396, X725790. 11, Y106426. 45,
PT5397, X725820. 23, Y106429. 51,
PT5398, X725850. 19, Y106431. 58,
PT5399, X725880. 13, Y106434. 78,
PT5400, X725910. 06, Y106436. 93,

S5401,	X725955.00,	Y106440.91,	PT5401,	X725940.10,	Y106439.55,
S5402,	X725984.58,	Y106443.10,	PT5402,	X725969.92,	Y106442.26,
S5403,	X726014.94,	Y106445.51,	PT5403,	X725999.88,	Y106443.93,
S5404,	X726044.88,	Y106448.08,	PT5404,	X726029.94,	Y106447.09,
S5405,	X726074.81,	Y106450.27,	PT5405,	X726059.84,	Y106449.07,
S5406,	X726104.81,	Y106452.65,	PT5406,	X726089.78,	Y106451.46,
S5407,	X726134.69,	Y106455.43,	PT5407,	X726119.79,	Y106453.83,
S5408,	X726164.56,	Y106457.75,	PT5408,	X726149.54,	Y106457.03,
S5409,	X726194.50,	Y106459.70,	PT5409,	X726179.54,	Y106458.47,
S5410,	X726224.44,	Y106462.28,	PT5410,	X726209.45,	Y106460.93,
S5411,	X726254.38,	Y106464.72,	PT5411,	X726239.41,	Y106463.62,
S5412,	X726284.25,	Y106467.44,	PT5412,	X726269.38,	Y106465.82,
S5413,	X726314.25,	Y106469.93,	PT5413,	X726299.14,	Y106469.06,
S5414,	X726344.31,	Y106472.04,	PT5414,	X726329.42,	Y106470.77,
S5415,	X726374.19,	Y106474.35,	PT5415,	X726359.19,	Y106473.29,
S5416,	X726404.25,	Y106476.67,	PT5416,	X726389.19,	Y106475.40,
S5417,	X726434.13,	Y106479.39,	PT5417,	X726419.30,	Y106477.93,
S5418,	X726463.94,	Y106481.71,	PT5418,	X726448.97,	Y106480.84,
S5419,	X726493.94,	Y106484.03,	PT5419,	X726478.94,	Y106482.57,
S5420,	X726523.94,	Y106486.46,	PT5420,	X726508.90,	Y106485.49,
S5421,	X726553.88,	Y106488.99,	PT5421,	X726538.96,	Y106487.43,
S5422,	X726583.75,	Y106491.60,	PT5422,	X726568.75,	Y106490.54,
S5423,	X726613.75,	Y106494.08,	PT5423,	X726598.80,	Y106492.65,
S5424,	X726643.56,	Y106496.92,	PT5424,	X726628.68,	Y106495.51,
S5425,	X726673.50,	Y106499.44,	PT5425,	X726658.47,	Y106498.03,
S5426,	X726703.50,	Y106502.04,	PT5426,	X726688.48,	Y106500.54,
S5427,	X726733.50,	Y106504.81,	PT5427,	X726718.57,	Y106503.54,
S5428,	X726763.63,	Y106506.53,	PT5428,	X726748.46,	Y106506.08,
S5429,	X726793.44,	Y106510.13,	PT5429,	X726778.28,	Y106508.77,
S5430,	X726823.50,	Y106513.41,	PT5430,	X726808.50,	Y106512.23,
S5431,	X726853.50,	Y106515.76,	PT5431,	X726838.50,	Y106514.58,
S5432,	X726883.44,	Y106518.53,	PT5432,	X726868.46,	Y106516.94,
S5433,	X726913.44,	Y106520.25,	PT5433,	X726898.50,	Y106519.69,
S5434,	X726943.25,	Y106523.14,	PT5434,	X726928.35,	Y106521.80,
S5435,	X726973.13,	Y106525.39,	PT5435,	X726958.21,	Y106524.47,
S5436,	X727003.19,	Y106526.42,	PT5436,	X726988.09,	Y106526.30,
S5437,	X727033.00,	Y106530.63,	PT5437,	X727018.04,	Y106528.75,
S5438,	X727062.88,	Y106533.27,	PT5438,	X727047.97,	Y106531.78,
S5439,	X727092.75,	Y106535.96,	PT5439,	X727077.78,	Y106534.75,
S5440,	X727122.75,	Y106538.72,	PT5440,	X727107.74,	Y106537.16,
S5441,	X727152.69,	Y106541.50,	PT5441,	X727137.71,	Y106540.28,
S5442,	X727182.63,	Y106544.26,	PT5442,	X727167.64,	Y106542.72,
S5443,	X727212.56,	Y106546.96,	PT5443,	X727197.56,	Y106545.79,
S5444,	X727242.50,	Y106549.77,	PT5444,	X727227.57,	Y106548.12,
S5445,	X727273.06,	Y106552.47,	PT5445,	X727257.45,	Y106551.42,
S5446,	X727302.31,	Y106555.06,	PT5446,	X727288.69,	Y106553.51,
S5447,	X727331.63,	Y106558.19,	PT5447,	X727315.97,	Y106556.61,
S5448,	X727362.25,	Y106561.28,	PT5448,	X727347.24,	Y106559.76,
S5449,	X727390.50,	Y106563.02,	PT5449,	X727375.78,	Y106561.76,
S5450,	X727421.00,	Y106565.78,	PT5450,	X727405.24,	Y106564.27,
S5451,	X727451.50,	Y106568.90,	PT5451,	X727436.73,	Y106567.28,
S5452,	X727481.13,	Y106571.75,	PT5452,	X727466.26,	Y106570.51,
S5453,	X727510.81,	Y106574.30,	PT5453,	X727496.02,	Y106572.98,
S5454,	X727540.44,	Y106576.92,	PT5454,	X727525.60,	Y106575.62,
S5455,	X727570.25,	Y106579.48,	PT5455,	X727555.29,	Y106578.22,
S5456,	X727600.19,	Y106582.01,	PT5456,	X727585.21,	Y106580.74,
S5457,	X727629.81,	Y106585.06,	PT5457,	X727615.12,	Y106583.28,
S5458,	X727659.81,	Y106588.19,	PT5458,	X727644.52,	Y106586.83,
S5459,	X727689.69,	Y106590.82,	PT5459,	X727675.10,	Y106589.54,

Tabel L.1.1. (lanjutan)

S5460,	X727718. 81,	Y106593. 34,
S5461,	X727748. 63,	Y106595. 86,
S5462,	X727779. 75,	Y106598. 64,
S5463,	X727808. 00,	Y106601. 55,
S5464,	X727837. 56,	Y106604. 11,
S5465,	X727867. 56,	Y106606. 41,
S5466,	X727897. 19,	Y106608. 99,
S5467,	X727927. 00,	Y106611. 38,
S5468,	X727956. 75,	Y106613. 92,
S5469,	X727986. 50,	Y106616. 86,
S5470,	X728016. 31,	Y106620. 39,
S5471,	X728046. 25,	Y106622. 09,
S5472,	X728076. 25,	Y106624. 51,
S5473,	X728105. 81,	Y106627. 58,
S5474,	X728135. 38,	Y106630. 41,
S5475,	X728165. 13,	Y106632. 67,
S5476,	X728194. 63,	Y106635. 12,
S5477,	X728224. 19,	Y106637. 26,
S5478,	X728254. 19,	Y106639. 74,
S5479,	X728293. 88,	Y106642. 89,
S5480,	X728313. 81,	Y106645. 07,
S5481,	X728343. 31,	Y106646. 91,
S5482,	X728373. 56,	Y106649. 20,
S5483,	X728403. 31,	Y106651. 42,
S5484,	X728432. 50,	Y106653. 41,
S5485,	X728462. 69,	Y106656. 13,
S5486,	X728492. 63,	Y106658. 48,
S5487,	X728521. 88,	Y106660. 74,
S5488,	X728552. 75,	Y106663. 59,
S5489,	X728582. 69,	Y106666. 13,
S5490,	X728612. 75,	Y106668. 61,
S5491,	X728642. 31,	Y106670. 97,
S5492,	X728671. 88,	Y106674. 26,
S5493,	X728701. 44,	Y106676. 52,
S5494,	X728730. 94,	Y106679. 01,
S5495,	X728760. 94,	Y106682. 47,
S5496,	X728790. 69,	Y106684. 27,
S5497,	X728820. 69,	Y106686. 62,
S5498,	X728851. 00,	Y106689. 48,
S5499,	X728881. 00,	Y106691. 50,
S5500,	X728910. 75,	Y106693. 45,
S5501,	X728940. 50,	Y106695. 76,
S5502,	X728970. 38,	Y106697. 14,
S5503,	X729000. 31,	Y106697. 60,

PT5460,	X727704. 22,	Y106592. 10,
PT5461,	X727733. 39,	Y106594. 57,
PT5462,	X727763. 83,	Y106597. 15,
PT5463,	X727793. 70,	Y106600. 12,
PT5464,	X727822. 35,	Y106602. 98,
PT5465,	X727852. 74,	Y106605. 23,
PT5466,	X727882. 37,	Y106607. 59,
PT5467,	X727912. 04,	Y106610. 38,
PT5468,	X727941. 93,	Y106612. 37,
PT5469,	X727971. 57,	Y106615. 46,
PT5470,	X728001. 40,	Y106618. 26,
PT5471,	X728031. 14,	Y106621. 13,
PT5472,	X728061. 35,	Y106623. 04,
PT5473,	X728091. 11,	Y106625. 98,
PT5474,	X728120. 54,	Y106629. 18,
PT5475,	X728150. 15,	Y106631. 64,
PT5476,	X728180. 08,	Y106633. 69,
PT5477,	X728209. 21,	Y106636. 55,
PT5478,	X728239. 21,	Y106637. 97,
PT5479,	X728269. 12,	Y106641. 51,
PT5480,	X728298. 64,	Y106644. 27,
PT5481,	X728328. 40,	Y106646. 07,
PT5482,	X728358. 25,	Y106647. 75,
PT5483,	X728388. 92,	Y106650. 64,
PT5484,	X728417. 67,	Y106652. 20,
PT5485,	X728447. 29,	Y106654. 42,
PT5486,	X728478. 04,	Y106657. 64,
PT5487,	X728507. 15,	Y106659. 32,
PT5488,	X728537. 90,	Y106662. 27,
PT5489,	X728567. 59,	Y106664. 89,
PT5490,	X728597. 82,	Y106667. 36,
PT5491,	X728627. 67,	Y106669. 85,
PT5492,	X728656. 92,	Y106672. 09,
PT5493,	X728686. 86,	Y106676. 42,
PT5494,	X728716. 03,	Y106676. 42,
PT5495,	X728745. 87,	Y106681. 39,
PT5496,	X728775. 99,	Y106683. 54,
PT5497,	X728805. 32,	Y106684. 99,
PT5498,	X728836. 00,	Y106688. 25,
PT5499,	X728865. 98,	Y106690. 70,
PT5500,	X728895. 77,	Y106692. 29,
PT5501,	X728925. 52,	Y106694. 61,
PT5502,	X728955. 43,	Y106696. 91,

Lampiran - 2

Data Koordinat Statik Lapangan

Tabel L.2.1. Data koreksi statik lapangan

```
* LIBRI ST 11 CS                    D5100,
    +22,    +26,    +23,    +19,    +19,    +19,    +21,
    +22,    +19,    +19,    +23,    +23,    +22,    +19,
    +19,    +19,    +21,    +19,    +19,    +24,    +21,
    +21,    +21,    +21,    +19,    +21,    +19,    +18,
    +19,    +19,    +23,    +18,    +20,    +19,    +18,
    +19,    +19,    +21,    +22,    +25,    +20,    +19,
    +21,    +18,    +22,    +19,    +23,    +23,    +20,
    +21,    +18,    +19,    +19,    +19,    +24,    +19,
    +21,    +19,    +20,    +19,    +21,    +19,    +19,
    +21,    +22,    +18,    +19,    +20,    +19,    +20,
    +20,    +20,    +21,    +20,    +20,    +21,    +18,
    +18,    +20,    +19,    +20,    +18,    +18,    +18,
    +18,    +19,    +20,    +19,    +20,    +19,    +18,
    +18,    +19,    +19,    +19,    +20,    +20,    +20,
    +19,    +19,    +20,    +19,    +19,    +18,    +21,
    +21,    +18,    +18,    +19,    +18,    +18,    +18,
    +19,    +18,    +19,    +19,    +18,    +18,    +18,
    +19,    +19,    +20,    +19,    +19,    +18,    +19,
    +21,    +21,    +20,    +20,    +19,    +19,    +18,
    +19,    +26,    +19,    +21,    +21,    +19,    +18,
    +20,    +22,    +21,    +21,    +20,    +18,    +20,
    +20,    +20,    +21,    +20,    +21,    +23,    +21,
    +23,    +24,    +24,    +23,    +21,    +21,    +20,
    +20,    +22,    +22,    +29,    +21,    +22,    +24,
    +21,    +22,    +22,    +21,    +25,    +25,    +23,
    +23,    +22,    +21,    +20,    +21,    +21,    +22,
    +21,    +21,    +22,    +23,    +21,    +23,    +23,
    +21,    +23,    +23,    +23,    +23,    +22,    +20,
    +23,    +19,    +21,    +21,    +21,    +21,    +24,
    +21,    +24,    +21,    +22,    +25,    +25,    +22,
    +22,    +23,    +21,    +21,    +26,    +17,    +16,
    +17,    +22,    +20,    +18,    +21,    +21,    +21,
    +22,    +21,    +24,    +20,    +25,    +22,    +25,
    +24,    +23,    +22,    +24,    +22,    +24,    +26,
    +23,    +22,    +24,    +26,    +23,    +26,    +23,
    +22,    +26,    +18,    +24,    +26,    +24,    +23,
    +24,    +24,    +19,    +23,    +22,    +27,    +24,
    +22,    +18,    +24,    +25,    +23,    +23,    +21,
    +22,    +25,    +25,    +25,    +21,    +22,    +22,
    +21,    +21,    +24,    +23,    +22,    +23,    +23,
    +24,    +24,    +23,    +22,    +21,    +23,    +24,
    +23,    +23,    +23,    +22,    +23,    +26,    +22,
    +21,    +21,    +21,    +23,    +23,    +25,    +28,
    +25,    +25,    +25,    +25,    +20,    +21,    +19,
    +18,    +17,    +17,    +18,    +19,    +19,    +18,
    +18,    +18,    +20,    +21,    +18,    +18,    +18,
    +19,    +18,    +20,    +21,    +21,    +22,    +20,
    +21,    +21,    +20,    +19,    +22,    +20,    +21,
    +22,    +22,    +18,    +16,    +17,    +15,    +17,
    +21,    +21,    +20,    +18,    +16,    +14,    +18,
    +15,    +16,    +14,    +15,    +15,    +16,    +16,
    +17,    +18,    +18,    +19,    +17,    +17,    +18,
    +19,    +20,    +20,    +17,    +18,    +18,    +19,
    +16,    +17,    +18,    +16,    +16,    +16,    +13,
    +14,    +13,    +13,    +13,    +13,    +15,    +14,
    +13,    +13,    +17,    +15,    +14,    +13,    +14,
    +16,    +15,    +13,    +16,    +14,    +16,    +17,
```

+13,	+12,	+13,	+14,	+14,		
E,						
	CP		D5100,			
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+9,	+10,	+10,	+10,	+10.
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+9.
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+10,
+10,	+10,	+11,	+11,	+11,	+10,	+10,
+10,	+10,	+10,	+11,	+10,	+10,	+10,
+10,	+10,	+11,	+10,	+10,	+10,	+10,
+10,	+11,	+11,	+10,	+11,	+10,	+11,
+10,	+11,	+11,	+10,	+11,	+11,	+11,
+11,	+11,	+11,	+11,	+11,	+11,	+11,
+11,	+11,	+11,	+11,	+11,	+11,	+11,
+11,	+11,	+11,	+11,	+11,	+11,	+11,
+11,	+11,	+11,	+11,	+11,	+11,	+11,
+11,	+11,	+11,	+11,	+11,	+11,	+11,
+11,	+11,	+11,	+11,	+11,	+11,	+10,
+10,	+10,	+10,	+10,	+10,	+10,	+11,
+10,	+10,	+10,	+10,	+10,	+10,	+10;
+10,	+10,	+10,	+9,	+9,	+9,	+8,
+8,	+10,	+10,	+9.	+10,	+10,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+11,
+10,	+10	+10,	+11,	+10,	+11,	+10,
+10,	+11	+10,	+10,	+11,	+11,	+10,
+10,	+10	+10,	+10,	+10,	+11,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+10,
+10,	+10	+10,	+10,	+10,	+10,	+10,
+9,	+10,	+10,	+10,	+10,	+10,	+10.
+10,	+10,	+10,	+9,	+9,	+9,	+9,
+9,	+8,	+8,	+8,	+8,	+8,	+8,
+8,	+8,	+8,	+8,	+8,	+8,	+8,
+8,	+8,	+8,	+8,	+8,	+8,	+8.
+8,	+8,	+8,	+8,	+8,	+8,	+8,
+8,	+8,	+7,	+6,	+6,	+6,	+6,
+7,	+7,	+7,	+6,	+6,	+6,	+6,
+8,	+6,	+6,	+5,	+6,	+6,	+6,
+6,	+6,	+6,	+6,	+6,	+6,	+6,
+6,	+6,	+6,	+6,	+6,	+6,	+6.
+6,	+6,	+6,	+8,	+5,	+5,	+4,
+5,	+4,	+4,	+5,	+4,	+4,	+5,
+4,	+4,	+4,	+5,	+5,	+5,	+4,
+4,	+4,	+4,	+4,	+4,	+4,	+4,
+4,	+4,	+4,	+4,	+4,		
E,						

Lampiran - 3

Observer Report

This list details the parameters used for the seismic data recording.

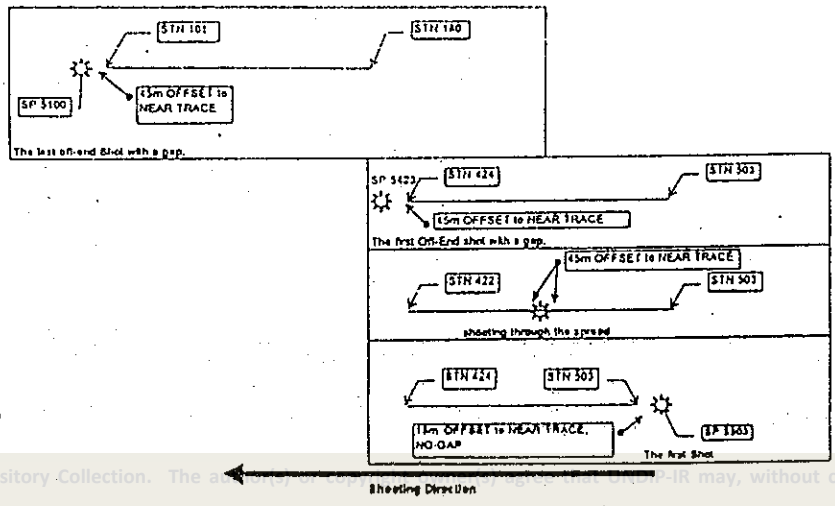
Item	Detail
Recording Instrument and electronics	Recording Instrument: MDS-18 System Control Serial # RFE Serial # 6250cpi Mtrack tape drive Serial # Recording Filter: Low Cut OUT; High Cut 187 Hz @ 90 dB/Octave Time Sample Interval 2ms Record Length 8s The start of data is at Clock Time Break. Radio communication from the encoder to the decoder is used I/O 200 Blaster unit are used. Serial #:
Receiver:	3 component geophone with one SM-4 vertical element and two SM-6 horizontal elements in a PE-4C case Each station has 1 string of 8 geophone units connected in series. Receiver Station Interval is 30m. Geophone element spacing is 3m Geophone elements are planted up to 10cm into the ground. There are 3 receiver lines of 80 channels for a total of 240 channels One line is assigned for each component of the geophone
	Line 1, channel 1-80 for the H-1 (Transverse) In-line component Line 2, ch 81-160 for the H-2 (Radial) cross-line component and Line 3, ch 161-240 for the V-3 vertical component
Source:	Typically an 80 station off-end spread except at the High Shot Point end of the line, where the shots roll through the spread without a gap. Only the off-end shots have a gap. The gap between shot and the nearest receiver is one (1) station so that the near trace offset is 45m for all shots The spread diagram is on the Shot Point Base Map. The in-line roll is 30m(1 station) Charge Size is 100g of Minexis Nominal Charge Depth is 40 feet.
CDP:	CMP bin size is 15m. Fold is 40.
Data Tape:	9 track 6250 bpi tape drive Data Format is SEG-D 2.5 bytes/sample multiplexed The file structure has x byte header and 1 block of bytes

The column titles on the following pages are abbreviated but are explained here.
Each row of the log represents a file recorded on tape in chronological order.

Column Title	Detail
Tape #	The number of the tape containing the file.
File No.	The file number as recorded on tape.
MDS13X Line/SP	An 8 digit number representing line and shot point. The line number is 3 digits with a 1 digit
Client Line/SP	An 8 digit number representing line and shot point using the number series used by the client on the shot point base map.
DS (ft)	The depth of the loaded charge in a hole and measured in feet
Tuh (ms)	The uphole time from the charge to a geophone positioned on or below the surface and measured in milliseconds.
Powergel Charge(g)	The type and size of the explosive used to record this file.
#Caps	The number of caps inserted in the explosive for recording this file
Line of Ch1	The 3 digit MDS Line number representing the receiver line where channel 1 is located. It is recorded in the file header.
Ch1 STN	The station where the channel 1 is located. It is recorded in the file header.
Ch80 STN	The station where channel 80 is located. It is recorded in the file header.
Shot Seq.	The sequential number of this file in this observer log
Kill FILE	A symbol in this field indicates that the file is not to be used for data processing. Typically test files and bad data files.
X If incorrect header LINE SP	A symbol in these fields indicates that the header on tape is not correct for either Line or SP numbers. The number in the Client Line/SP field is correct while the MDS Line/SP field is the same as the file header on tape.
Remarks	Comments added by the observer and seismologist.

The CLIENT and MDS line numbers are related in the following table
The CLIENT Line number is the same as the Line number on the Shot Point Base Map
The MDS Line number has a 3 digit root and a single digit Shot Reference ID. The Reference ID is 0 when the shot is on a receiver line, and can range from 1 to 9 indicating the ordinal number of shot lines between two receiver lines. In this prospect there is a shot line on a receiver line a shot line between receiver lines so the Reference ID values of 0 and 1 are used

CLIENT LINE NUMBERS		MDS LINE NUMBERS	
RECV	SHOT	RECV	SHOT
L1020198	L1020190	198	1980



Tabel L.3.1. Data *observer report*

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Minisels (g)	#Caps	LINE of CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"X" if incorrect header LINE	SP	REMARKS
45	900	110502				100	1	198	423	502		"			PULSE TEST SHOT ON 22ND MAY. 1998.
45	922	110502				100	1	198	423	502		"			EINT TEST.
45	923	110502				100	1	198	423	502		"			EINT TEST.
45	924	110502				100	1	198	423	502		"			DRD TEST.
45	925	110502				100	1	198	423	502		"			DRD TEST.
45	926	110502				100	1	198	423	502		"			DRD TEST.
45	927	110502				100	1	198	423	502		"			DRD TEST.
45	928	110502				100	1	198	423	502		"			CROSSFEED TEST.
45	930	110502				100	1	198	423	502		"			CROSSFEED TEST.
45	930	110502				100	1	198	423	502		"			CROSSFEED TEST.
45	1002	110503	19805503	40	10.0	100	1	198	424	503					THIS File is not ON SEG" Y" TAPE, MicroMax cannot read this file.
45	1003	110502	19805502	40	10.0	100	1	198	424	503	1				Shooting through the spread, without a gap.
45	1004	110501	19805501	40	9.0	100	1	198	424	503	2				
45	1005	110500	19805500	40	8.0	100	1	198	424	503	3				
45	1006	110499	19805499	40	9.0	100	1	198	424	503	4				
45	1007	110498	19805498	40	9.0	100	1	198	424	503	5				
45	1008	110497	19805497	40	12.0	100	1	198	424	503	6				
45	1009	110496	19805496	40	10.0	100	1	198	424	503	7				
45	1010	110495	19805495	40	12.0	100	1	198	424	503	8				
45	1011	110494	19805494	40	9.0	100	1	198	424	503	9				
45	1012	110493	19805493	40	11.0	100	1	198	424	503	10				
45	1013	110492	19805492	40	12.0	100	1	198	424	503	11				
45	1014	110491	19805491	40	10.0	100	1	198	424	503	12				
45	1015	110490	19805490	40	8.0	100	1	198	424	503	13				
45	1016	110489	19805489	40	9.0	100	1	198	424	503	14				
45	1017	110488	19805488	40	10.0	100	1	198	424	503	15				
45	1018	110487	19805487	40	13.0	100	1	198	424	503	16				
45	1019	110486	19805486	40	9.0	100	1	198	424	503	17				
45	1020	110485	19805485	40	9.0	100	1	198	424	503	18				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Milliseis (g)	#Caps	LINE of CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	LINE	SP	REMARKS
45	1021	110484	19805484	40	9.0	100	1	198	424	503	19				
45	1022	110483	19805483	40	11.0	100	1	198	424	503	20				
45	1023	110482	19805482	40	9.0	100	1	198	424	503	21				
45	1024	110481	19805481	40	8.0	100	1	198	424	503	22				
45	1025	110480	19805480	40	9.0	100	1	198	424	503	23				
45	1026	110479	19805479	40	9.0	100	1	198	424	503	24				
45	1027	110478	19805478	40	9.0	100	1	198	424	503	25				
45	1028	110477	19805477	40	9.0	100	1	198	424	503	26				
45	1029	110476	19805476	40	11.0	100	1	198	424	503	27				
45	1030	110475	19805475	40	11.0	100	1	198	424	503	28				
45	1031	110474				100	1	198	424	503		*			KILL.
45	1032	110474	19805474	28	8.0	100	1	198	424	503	29				RELOAD.
45	1033	110473	19805473	40	12.0	100	1	198	424	503	30				
45	1034	110472	19805472	40	11.0	100	1	198	424	503	31				
45	1035	110471	19805471	40	10.0	100	1	198	424	503	32				
45	1036	110470	19805470	40	13.0	100	1	198	424	503	33				
45	1037	110469	19805469	40	12.0	100	1	198	424	503	34				
45	1038	110468				100	1	198	424	503		*			KILL, MISFIRE.
45	1039	110468	19805468	40	12.0	100	1	198	424	503	35				
45	1040	110467	19805467	40	11.0	100	1	198	424	503	36				
45	1041	110466	19805466	40	14.0	100	1	198	424	503	37				
45	1042	110465				100	1	198	424	503		*			KILL.
45	1043	110465	19805465	40	14.0	100	1	198	424	503	38				
45	1044	110464	19805464	40	13.0	100	1	198	424	503	39				
45	922	110463				100	1	198	424	503		*			PULSE TEST SHOT ON 23RD MAY 1998.
45	1045	110463				100	1	198	424	503		*			CAP TEST.
45	1046	110463	19805463	40	12.0	100	1	198	424	503	40				
45	1047	110462	19805462	40	11.0	100	1	198	424	503	41				
45	1048	110461	19805461	40	11.0	100	1	198	424	503	42				
45	1049	110460	19805460	40	13.0	100	1	198	424	503	43				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Minisels (g)	#Caps	LINE of CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"X" # Incorrect Headers LINE	"X" # Incorrect Headers SP	REMARKS
45	1050	110459	19805459	40	12.0	100	1	198	424	503	44				
45	1051	110458	19805458	40	12.0	100	1	198	424	503	45				
45	1052	110457	19805457	40	11.0	100	1	198	424	503	46				
45	1053	110456	19805456	40	10.0	100	1	198	424	503	47				
45	1054	110455	19805455	40	10.0	100	1	198	424	503	48				
45	1055	110454	19805454	40	9.0	100	1	198	424	503	49				
45	1056	110453	19805453	40	10.0	100	1	198	424	503	50				
45	1057	110452	19805452	40	8.0	100	1	198	424	503	51				
45	1058	110451	19805451	40	10.0	100	1	198	424	503	52				
45	1059	110450	19805450	40	9.0	100	1	198	424	503	53				
45	1060	110449	19805449	40	12.0	100	1	198	424	503	54				
45	1061	110448	19805448	40	8.0	100	1	198	424	503	55				
45	1062	110447	19805447	40	13.0	100	1	198	424	503	56				
45	1063	110446	19805446	40	12.0	100	1	198	424	503	57				
45	1064	110445	19805445	40	13.0	100	1	198	424	503	58				
45	1065	110444	19805444	40	14.0	100	1	198	424	503	59				TR 6 NOISE.
45	1066	110443	19805443	40	14.0	100	1	198	424	503	60				
45	1067	110442	19805442	40	11.0	100	1	198	424	503	61				
45	1068	110441	19805441	40	9.0	100	1	198	424	503	62				
45	1069	110440	19805440	40	11.0	100	1	198	424	503	63				
45	1070	110439	19805439	40	10.0	100	1	198	424	503	64				
45	1071	110438	19805438	40	11.0	100	1	198	424	503	65				
45	1072	110437	19805437	40	14.0	100	1	198	424	503	66				
45	1073	110436	19805436	40	14.0	100	1	198	424	503	67				
45	1074	110435	19805435	40	13.0	100	1	198	424	503	68				
45	1075	110434	19805434	40	12.0	100	1	198	424	503	69				
45	1076	110433	19805433	40	14.0	100	1	198	424	503	70				
45	1077	110432	19805432	40	11.0	100	1	198	424	503	71				
45	1078	110431	19805431	40	12.0	100	1	198	424	503	72				
45	1079	110430	19805430	40	13.0	100	1	198	424	503	73				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Mixture (g)	#Caps	LINE of CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"X" Inserted Feeders LINE	SP	REMARKS
45	1080	110429	19805429	40	13.0	100	1	198	424	503	74				
45	1081	110428	19805428	40	12.0	100	1	198	424	503	75				
45	1082	110427	19805427	40	14.0	100	1	198	424	503	76				
45	1083	110426				100	1	198	424	503		•			KILL.
45	1084	110426	19805426	40	13.0	100	1	198	424	503	77				
45	1085	110425	19805425	40	13.0	100	1	198	424	503	78				
46	900	110424				100	1	198	424	503		•			CAP TEST.
45	1086	110424	19805424	40	12.0	100	1	198	424	503	79				
45	1087	110423	19805423	40	10.0	100	1	198	424	503	80				
45	1088	110422	19805422	40	11.0	100	1	198	423	502	81	✓			Roll spread, Shot off-end, one station in Gap.
45	1089	110421	19805421	40	10.0	100	1	198	422	501	82				
45	1090	110420	19805420	40	10.0	100	1	198	421	500	83				
45	1091	110419	19805419	40	10.0	100	1	198	420	499	84				
45	1092	110418	19805418	40	13.0	100	1	198	419	498	85				
46	1093	110417				100	1	198	418	497		•			KILL.
46	1094	110417	19805417	40	12.0	100	1	198	418	497	86				
46	1095	110416	19805416	40	10.0	100	1	198	417	496	87				
46	1096	110415	19805415	40	10.0	100	1	198	416	495	88				
46	1097	110414	19805414	40	10.0	100	1	198	415	494	89				
46	1098	110413	19805413	40	11.0	100	1	198	414	493	90				
46	1099	110412	19805412	40	11.0	100	1	198	413	492	91				
46	1100	110411	19805411	40	10.0	100	1	198	412	491	92				
46	900	110410				100	1	198	411	490		•			PULSE TEST.
46	1001	110410				100	1	198	411	490		•			CAP TEST.
47	1102	110410				100	1	198	411	490		•			KILL.
47	1103	110410	19805410	40	9.0	100	1	198	411	490	93				SHOT ON 24TH MAY 1998.
47	1104	110409	19805409	40	9.0	100	1	198	410	489	94				
47	1105	110408	19805408	40	9.0	100	1	198	409	488	95				
47	1106	110407				100	1	198	408	487		•			KILL.
47	1107	110407	19805407	40	10.0	100	1	198	408	487	96				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Muzzle (B)	#Caps	LINE # CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"X" Inserted Header LINE	"X" Inserted Header SP	REMARKS
47	1108	110406	19805406	40	12.0	100	1	198	407	486	97				
47	1109	110405	19805405	40	11.0	100	1	198	406	485	98				
47	1110	110404	19805404	40	16.0	100	1	198	405	484	99				
47	1111	110403	19805403	40	15.0	100	1	198	404	483	100				
47	1112	110402	19805402	40	15.0	100	1	198	403	482	101				
47	1113	110401	19805401	40	15.0	100	1	198	402	481	102				
47	1114	110400	19805400	40	18.0	100	1	198	401	480	103				
47	1115	110399	19805399	40	15.0	100	1	198	400	479	104				
47	1116	110398	19805398	40	13.0	100	1	198	399	478	105				
47	1117	110397	19805397	40	13.0	100	1	198	398	477	106				
47	1118	110396	19805396	40	11.0	100	1	198	397	476	107				
47	1119	110395				100	1	198	396	475		•			KILL
47	1120	110395	19805395	40	11.0	100	1	198	396	475	108				
47	1121	110394	19805394	40	12.0	100	1	198	395	474	109				
47	1122	110393	19805393	40	12.0	100	1	198	394	473	110				
47	1123	110392	19805392	40	16.0	100	1	198	393	472	111				
47	1124	110391	19805391	40	13.0	100	1	198	392	471	112				
47	1125	110390	19805390	40	12.0	100	1	198	391	470	113				
47	1126	110389	19805389	40	13.0	100	1	198	390	469	114				
47	1127	110388	19805388	40	13.0	100	1	198	389	468	115				
47	1128	110387	19805387	40	15.0	100	1	198	388	467	116				
47	1129	210386				100	1	198	387	466		•			CAP TEST.
47	1130	210386	19805386	40	14.0	100	1	198	387	466	117				SHOT ON 25TH MAY 1998.
47	1131	210385	19805385	40	13.0	100	1	198	386	465	119				FN 1129-1154 LINE NUMBER ON TAPE HEADER
47	1132	210384	19805384	40	11.0	100	1	198	385	464	120				
47	1133	210383	19805383	40	12.0	100	1	198	384	463	121				
47	1134	210382	19805382	40	13.0	100	1	198	383	462	122				
47	1135	210381	19805381	40	14.0	100	1	198	382	461	123				
47	1136	210380	19805380	40		100	1	198	381	460	124				
47	1137	210380	19805379	40		100	1	198	380	459	125				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Milliseis (J)	SCaps	LINE or CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	Kills LINE	Kills SP	REMARKS
47	1138	210378	19805378	40	13.0	100	1	198	379	458	126				
47	1139	210377	19805377	40	12.0	100	1	198	378	457	127				
47	1140	210376	19805376	40	13.0	100	1	198	377	456	128				
47	1141	210375	19805375	40	14.0	100	1	198	376	455	129				
47	1142	210374	19805374	40	11.0	100	1	198	375	454	130				
47	1143	210373	19805373	40	11.0	100	1	198	374	453	131				TRS 79,80 BAD.
47	1144	210372	19805372	40	12.0	100	1	198	373	452	132				TR 80 DEAD.
47	1145	210371	19805371	40	12.0	100	1	198	372	451	133				
47	1146	210370	19805370	40	11.0	100	1	198	371	450	134				TRS 1,6 BAD.
47	1147	210369	19805369	40	15.0	100	1	198	370	449	135				TRS 229,230,232 BAD.
47	1148	210368	19805368	40	15.0	100	1	198	369	448	136				
47	1149	210367				100	1	198	368	447		•			KILL.
47	1150	210367	19805367	40	15.0	100	1	198	368	447	137				RELOAD.
47	1151	210366	19805366	40	12.0	100	1	198	367	446	138				
47	1152	210365	19805365	40	11.0	100	1	198	366	445	139				
47	1153	210364	19805364	40	13.0	100	1	198	365	444	140				
47	1154	210363	19805363	40	13.0	100	1	198	364	443	141				
47	1155	110362				100	1	198	363	442		•			KILL.
47	1156	110362				100	1	198	363	442		•			CAP TEST.
47	1157	110362	19805362	40	15.0	100	1	198	363	442	142				
47	1158	110361	19805361	40	14.0	100	1	198	362	441	143				TRS 26,59,108 BAD
47	1159	110360				100	1	198	361	440		•			KILL.
47	1160	110360				100	1	198	361	440		•			KILL.DEAD CAP.
47	1161	110360	19805360	40	8.0	100	1	198	361	440	144				
47	1162	110359	19805359	40	12.0	100	1	198	360	439	145				
47	1163	110358	19805358	40	14.0	100	1	198	359	438	146				
47	1164	110357	19805357	40	16.0	100	1	198	358	437	147				
47	1165	110356	19805356	40	12.0	100	1	198	357	436	148				
47	1166	110355	19805355	40	11.0	100	1	198	356	435	149				
47	1167	110354	19805354	40		100		198	355	434	150				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Milisecs (S)	#Caps	LINE of CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"X" Incorrect Headers LINE	"X" Incorrect Headers SP	REMARKS
47	1168	110353	19805353	40	14.0	100	1	198	354	433	151				
47	1169	110352	19805352	40	14.0	100	1	198	353	432	152				
47	1170	110351	19805351	40	13.0	100	1	198	352	431	153				TRS 191,192,195 BAD.
47	1171	110350	19805350	40	13.0	100	1	198	351	430	154				
47	1172	110349	19805349	40	15.0	100	1	198	350	429	155				
47	1173	110348	19805348	40	14.0	100	1	198	349	428	156				
47	1174	110347	19805347	40	8.0	100	1	198	348	427	157				
47	1175	110346	19805346	40	15.0	100	1	198	347	426	158				
47	1176	110345	19805345	40	12.0	100	1	198	346	425	159				
47	1177	110344	19805344	40	13.0	100	1	198	345	424	160				
47	1178	110343	19805343	40	15.0	100	1	198	344	423	161				
47	1179	110342	19805342	40	13.0	100	1	198	343	422	162				
47	1180	110341	19805341	40	15.0	100	1	198	342	421	163				
47	1181	110340	19805340	40	14.0	100	1	198	341	420	164				
47	1182	110339	19805339	40	12.0	100	1	198	340	419	165				
47	1183	110338	19805338	40	13.0	100	1	198	339	418	166				
47	1184	110337	19805337	40	15.0	100	1	198	338	417	167				
47	1185	110336	19805336	40	14.0	100	1	198	337	416	168				
48	900	110335				100	1	198	336	415		•			ALT ONES, NEW TAPE.
48	1186	110335				100	1	198	336	415		•			KILL.
48	1187	110335	19805335	40	12.0	100	1	198	336	415	169				
48	1188	110334				100	1	198	335	414		•			KILL.
48	1189	110334				100	1	198	335	414		•			KILL.
48	1190	110334	19805334	40	14.0	100	1	198	335	414	170				
48	1191	110333	19805333	40	12.0	100	1	198	334	413	171				
48	1192	110332	19805332	40	13.0	100	1	198	333	412	172				
48	1193	110331	19805331	40	14.0	100	1	198	332	411	173				
48	1194	110330	19805330	40	15.0	100	1	198	331	410	174				
48	1195	110329	19805329	40		100		198	330	409	175				
48	1196	110328	19805328	40		100		198	329	408	176				

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Minisels (g)	#Gps	LINE # CH.1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"X" if Incorrect Headers LINE	SP	REMARKS
48	1197	110327	19805327	40	10.0	100	1	198	328	407	177				TRS 85-87 BAD.
48	1198	110326	19805326	40	14.0	100	1	198	327	406	178				
48	1199	110325	19805325	40	11.0	100	1	198	326	405	179				
48	1200	110324	19805324	40	12.0	100	1	198	325	404	180				
48	1201	110323	19805323	40	11.0	100	1	198	324	403	181				TR 81 BAD.
48	1202	110322	19805322	40	11.0	100	1	198	323	402	182				
48	1203	110321	19805321	40	11.0	100	1	198	322	401	183				
48	1204	110320	19805320	40	9.0	100	1	198	321	400	184				
48	1205	110319	19805319	40	10.0	100	1	198	320	399	185				OFFSET 10 M TO NORTH.
48	1206	110318	19805318	40	12.0	100	1	198	319	398	186				
48	1207	110317	19805317	40	9.0	100	1	198	318	397	187				
48	1208	110316	19805316	40	8.0	100	1	198	317	396	188				
48	1209	110315	19805315	40	8.0	100	1	198	316	395	189				
48	1210	110314	19805314	40	17.0	100	1	198	315	394	190				
48	1211	110313	19805313	40	12.0	100	1	198	314	393	191				
48	1212	110312	19805312	40	11.0	100	1	198	313	392	192				
48	1213	110311	19805311	40	13.0	100	1	198	312	391	193				
48	1214	110310	19805310	40	12.0	100	1	198	311	390	194				TR 240 NOISE.
48	1215	110309				100	1	198	310	389		*			KILL.
48	1216	110309	19805309	40	12.0	100	1	198	310	389	195				
48	1217	110308				100	1	198	309	388		*			KILL.
48	1218	110308	19805308	40	15.0	100	1	198	309	388	196				
48	922	110307				100	1	198	308	387		*			PULSE TEST.
48	923	110307				100	1	198	308	387		*			EINT TEST.
48	924	110307				100	1	198	308	387		*			EINT TEST.
48	925	110307				100	1	198	308	387		*			DRD TEST.
48	926	110307				100	1	198	308	387		*			DRD TEST.
48	927	110307				100	1	198	308	387		*			DRD TEST.
48	928	110307				100	1	198	308	387		*			DRD TEST.
48	930	110307				100	1	198	308	387		*			CROSSFEED TEST.

Tabel L.3.1. (lanjutan)

TAPE #	File. No.	MDS-18X SP/LINE	Client SP/LINE	DS (ft)	TUH (ms)	Multiple (0)	#Caps	LINE # CH1	CH 1 STN	CH 80 STN	SHOT Seq.	KILL FILE	"A" Incorrect Numbers LINE	"A" Incorrect Numbers SP	REMARKS
48	931	110307				100	1	198	308	387		•			CROSSFEED TEST.
48	1219	110307	19805307	40	15.0	100	1	198	308	387	197				TR 87 BAD.
48	1220	110306	19805306	40	12.0	100	1	198	307	386	198				TR 45,125
48	1221	110305	19805305	40	11.0	100	1	198	306	385	199				
48	1222	110304	19805304	40	14.0	100	1	198	305	384	200				OFFSET 10 M TO SOUTH (RIPER)
48	1223	110303	19805303	40	11.0	100	1	198	304	383	201				
48	1224	110302	19805302	40	13.0	100	1	198	303	382	202				
48	1225	110301	19805301	40	11.0	100	1	198	302	381	203				
48	1226	110300	19805300	40	11.0	100	1	198	301	380	204				
48	1227	110299	19805299	40	11.0	100	1	198	300	379	205				
48	1228	110298	19805298	40	11.0	100	1	198	299	378	206				
48	1229	110297	19805297	40	9.0	100	1	198	298	377	207				
48	1230	110296	19805296	40	13.0	100	1	198	297	376	208				
48	1231	110295	19805295	40	10.0	100	1	198	296	375	209				
48	1232	110294	19805294	40	11.0	100	1	198	295	374	210				
48	1233	110293	19805293	40	12.0	100	1	198	294	373	211				
48	1234	110292	19805292	40	12.0	100	1	198	293	372	212				
48	1235	110291	19805291	40	12.0	100	1	198	292	371	213				TR 94
48	1236	110290				100	1	198	291	370		•			KILL.
48	1237	110290				100	1	198	291	370		•			KILL.
48	1238	110290	19805290	40	12.0	100	1	198	291	370	214				
48	1239	110289	19805289	40	10.0	100	1	198	290	369	215				
48	1240	110288	19805288	40	12.0	100	1	198	289	368	216				
48	1241	110287	19805287	40	12.0	100	1	198	288	367	217				
48	1242	110286	19805286	40	10.0	100	1	198	287	366	218				TR 1 DEAD.
48	1243	110285	19805285	40	12.0	100	1	198	286	365	219				
48	1244	110284	19805284	40	11.0	100	1	198	285	364	220				
48	1245	110283	19805283	40	10.0	100	1	198	284	363	221				RELOAD BY PRELOADER.
48	1246	110282	19805282	40	10.0	100	1	198	283	362	222				

Lampiran - 4

Listing Job Program Pengolah Data

```
*****************************************************************************
**                          PROGRAM BRUTE-STACK                            **
**                   (IN-LINE COMPONENT TANPA GAMMA)                       **
*****************************************************************************
* LIBRI TR                          CREW1206908,(E501),F1,
                                    SELEC=MOT22=
                                    (1003-1030),(1032-1037),
                                    (1039-1041),(1043-1044),
                                    (1046-1082),(1084-1092),
                                    (1094-1100),(1103-1105),
                                    (1107-1118),(1120-1128),
                                    (1130-1148),(1150-1154),
                                    (1157-1158),(1161-1185),
                                    1187,(1190-1214),1216,
                                    (1218-1235),(1238-1247),
                                    ET,MOT17=(1-80)
*****************************************************************************
* LIBRI CN 11                       B(4,8,90,100),SI2
* LIBRI VI 11 TN                    MOT4,(1-99999)=T168V1500,
                                    T700V900,T1000V960,
                                    T1200V1020,T1600V1060,
                                    T2200V1140,T2850V1230,
                                    T3600V1310,T3850V1400,VF1450
** MUTE DECON **
* LIBRI MU 11                       MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**  MUTE NMO  **
* LIBRI MU 01                       MOT4,(1-1000)=M31X45,
                                    M269X313,M849X671,M1321X1240
                                    ,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB XY 01                       FILE=/proj/33301401/JOBS/xy_LIB1
* RDLIB ST 11                       FILE=/proj/3330401/JOBS/1st198_P.libo
* LIBRI GE 01                       XS30,XM15$
                                    (PS1-PS10000)=(X1)$
                                    (PT5502-PT5475,I-1)=(X5501.5,I-1)
                                    (PT5474-PT5469,I-1)=(X5473.5,I-1)
                                    (PT5468-PT5466,I-1)=(X5467.5,I-1)
                                    (PT5465-PT5464,I-1)=(X5464.5,I-1)
                                    (PT5463-PT5427,I-1)=(X5462.5,I-1)
                                    (PT5426-PT5423,I-1)=(X5425.5,I-1)
                                    (PT5422-PT5418,I-1)=(X5421.5,I-1)
                                    (PT5417-PT5411,I-1)=(X5416.5,I-1)
                                    (PT5410-PT5408,I-1)=(X5409.5,I-1)
                                    (PT5407-PT5396,I-1)=(X5406.5,I-1)
                                    (PT5395-PT5387,I-1)=(X5394.5,I-1)
                                    (PT5386-PT5368,I-1)=(X5385.5,I-1)
                                    (PT5367-PT5363,I-1)=(X5366.5,I-1)
                                    (PT5362-PT5361,I-1)=(X5361.5,I-1)
                                    (PT5360-PT5336,I-1)=(X5359.5,I-1)
                                    (PT5335)=(X5334.5)
                                    (PT5334-PT5310,I-1)=(X5333.5,I-1)
                                    (PT5308)=(X5307.5)
                                    (PT5290-PT5281,I-1)=(X5289.5,I-1)$
**-------------------------------------------------------------------------**
                                    (PT5502-PT5475,I-1)=T80(1-80)
                                    (PT5474-PT5469,I-1)=T80(1-80)
                                    (PT5468-PT5466,I-1)=T80(1-80)
                                    (PT5465-PT5464,I-1)=T80(1-80)
```

```
                                        (PT5463-PT5427,I-1)=T80(1-80)
                                        (PT5426-PT5423,I-1)=T80(1-80)
                                        (PT5422-PT5418,I-1)=T80(1-80)
                                        (PT5417-PT5411,I-1)=T80(1-80)
                                        (PT5410-PT5408,I-1)=T80(1-80)
                                        (PT5407-PT5396,I-1)=T80(1-80)
                                        (PT5395-PT5387,I-1)=T80(1-80)
                                        (PT5386-PT5368,I-1)=T80(1-80)
                                        (PT5367-PT5363,I-1)=T80(1-80)
                                        (PT5362-PT5361,I-1)=T80(1-80)
                                        (PT5360-PT5336,I-1)=T80(1-80)
                                        (PT5335)=T80(1-80)
                                        (PT5334-PT5310,I-1)=T80(1-80)
                                        (PT5309)=T80(1-80)
                                        (PT5308-PT5291,I-1)=T80(1-80)
                                        (PT5290-PT5281,I-1)=T80(1-80)$
**-------------------------------------------------------------------------**
                                        (PT5502-PT5423,I-1)=(PS5424,PAS0)
                                        (PT5422-PT5418,I-1)=(PS5423,PAS-1)
                                        (PT5417-PT5411,I-1)=(PS5418,PAS-1)
                                        (PT5410-PT5408,I-1)=(PS5411,PAS-1)
                                        (PT5407-PT5396,I-1)=(PS5408,PAS-1)
                                        (PT5395-PT5387,I-1)=(PS5396,PAS-1)
                                        (PT5386-PT5368,I-1)=(PS5387,PAS-1)
                                        (PT5367-PT5363,I-1)=(PS5368,PAS-1)
                                        (PT5362-PT5361,I-1)=(PS5363,PAS-1)
                                        (PT5360-PT5336,I-1)=(PS5361,PAS-1)
                                        (PT5335)=(PS5336)
                                        (PT5334-PT5310,I-1)=(PS5335,PAS-1)
                                        (PT5309)=(PS5310,PAS-1)
                                        (PT5308-PT5291,I-1)=(PS5309,PAS-1)
                                        (PT5290-PT5281,I-1)=(PS5291,PAS-1)$
**-------------------------------------------------------------------------**
* LIBRI TP 01                           MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                        MOT4=20+K10,TAG=10+K10,SIZE1,(CDP),
* LIBRI BD 01                           E990112(RW),STG
*************************************************************************
* BOUCL                 1
* INPTR                   EA            RL4000,SI2,LTR1,MOT22
* MODET        EA         EB            *MOT28=MOT2,105000,DIV,FRAC,105000,MULT
* DTBXY        EB         EB            CL300,LXY1,LGE1,RENUM
* QSORT        EB         EG            SORT=UM4,DEUX20,NT50000,PROCS=YB3+B4
* FINBO
* BOUCL                 3
* OUTBD        EG                       LBD01,F3
* DECON        EG         EH            (W300-W1600,L120,F1001),LMU11
* HISTA        EH         EI            LST11,RS80,80,HAB
* FANMO        EI         EJ            LVI11,LMU1
* DYNQU        EJ         RY            L1000
* STACK        RY         S5            LAND
* FINBO
* BOUCL                 4
* FILTR        S5         OB            LCN11
* DYNQU        OB         OK            L1000
* WUNET        OK                       FILE=local:+
                                        FILE=stkNGh1_lib1.cst
* PLOTX        OK                       PLOTTER=BW24,ECH30,PAS5,AG,GO,LSO,
                                        NT2000,GD,CT100,HBCT100,EP500,1000,
                                        MOT4,MOT2,HISTORY,
                                        TOP,(BRUTE-STACK SV-SV MODE)
                                        SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                 X(YB1)
```

```
*************************************************************************
**                          PROGRAM BRUTE-STACK                        **
**                     (IN-LINE COMPONENT DENGAN GAMMA)                **
*************************************************************************
* LIBRI TR                          CREW1206908,(E501),F1,
                                    SELEC=MOT22=
                                    (1003-1030),(1032-1037),
                                    (1039-1041),(1043-1044),
                                    (1046-1082),(1084-1092),
                                    (1094-1100),(1103-1105),
                                    (1107-1118),(1120-1128),
                                    (1130-1148),(1150-1154),
                                    (1157-1158),(1161-1185),
                                    1187,(1190-1214),1216,
                                    (1218-1235),(1238-1247),
                                    ET,MOT17=(1-80)
*************************************************************************
* LIBRI CN 11                       B(4,8,90,100),SI2
* LIBRI VI 11 TN                    MOT4,(1-99999)=T168V1500,
                                    T700V900,T1000V960,
                                    T1200V1020,T1600V1060,
                                    T2200V1140,T2850V1230,
                                    T3600V1310,T3850V1400,VF1450

** MUTE DECON **
* LIBRI MU 11                       MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**  MUTE NMO  **
* LIBRI MU 01                       MOT4,(1-1000)=M31X45,
                                    M269X313,M849X671,M1321X1240
                                    ,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB XY 01                       FILE=/proj/33301401/JOBS/xy_LIB1
* RDLIB ST 11                       FILE=/proj/3330401/JOBS/1st198_P.libo
* LIBRI GE 01                       XS30,XM15$
                                    (PS1-PS10000)=(X1)$
                                    (PT5502-PT5475,I-1)=(X5501.5,I-1)
                                    (PT5474-PT5469,I-1)=(X5473.5,I-1)
                                    (PT5468-PT5466,I-1)=(X5467.5,I-1)
                                    (PT5465-PT5464,I-1)=(X5464.5,I-1)
                                    (PT5463-PT5427,I-1)=(X5462.5,I-1)
                                    (PT5426-PT5423,I-1)=(X5425.5,I-1)
                                    (PT5422-PT5418,I-1)=(X5421.5,I-1)
                                    (PT5417-PT5411,I-1)=(X5416.5,I-1)
                                    (PT5410-PT5408,I-1)=(X5409.5,I-1)
                                    (PT5407-PT5396,I-1)=(X5406.5,I-1)
                                    (PT5395-PT5387,I-1)=(X5394.5,I-1)
                                    (PT5386-PT5368,I-1)=(X5385.5,I-1)
                                    (PT5367-PT5363,I-1)=(X5366.5,I-1)
                                    (PT5362-PT5361,I-1)=(X5361.5,I-1)
                                    (PT5360-PT5336,I-1)=(X5359.5,I-1)
                                    (PT5335)=(X5334.5)
                                    (PT5334-PT5310,I-1)=(X5333.5,I-1)
                                    (PT5308)=(X5307.5)
                                    (PT5290-PT5281,I-1)=(X5289.5,I-1)$
**-----------------------------------------------------------------------**
                                    (PT5502-PT5475,I-1)=T80(1-80)
                                    (PT5474-PT5469,I-1)=T80(1-80)
                                    (PT5468-PT5466,I-1)=T80(1-80)
                                    (PT5465-PT5464,I-1)=T80(1-80)
                                    (PT5463-PT5427,I-1)=T80(1-80)
                                    (PT5426-PT5423,I-1)=T80(1-80)
```

```
                                        (PT5422-PT5418,I-1)=T80(1-80)
                                        (PT5417-PT5411,I-1)=T80(1-80)
                                        (PT5410-PT5408,I-1)=T80(1-80)
                                        (PT5407-PT5396,I-1)=T80(1-80)
                                        (PT5395-PT5387,I-1)=T80(1-80)
                                        (PT5386-PT5368,I-1)=T80(1-80)
                                        (PT5367-PT5363,I-1)=T80(1-80)
                                        (PT5362-PT5361,I-1)=T80(1-80)
                                        (PT5360-PT5336,I-1)=T80(1-80)
                                        (PT5335)=T80(1-80)
                                        (PT5334-PT5310,I-1)=T80(1-80)
                                        (PT5309)=T80(1-80)
                                        (PT5308-PT5291,I-1)=T80(1-80)
                                        (PT5290-PT5281,I-1)=T80(1-80)$
**-------------------------------------------------------------------------**
                                        (PT5502-PT5423,I-1)=(PS5424,PAS0)
                                        (PT5422-PT5418,I-1)=(PS5423,PAS-1)
                                        (PT5417-PT5411,I-1)=(PS5418,PAS-1)
                                        (PT5410-PT5408,I-1)=(PS5411,PAS-1)
                                        (PT5407-PT5396,I-1)=(PS5408,PAS-1)
                                        (PT5395-PT5387,I-1)=(PS5396,PAS-1)
                                        (PT5386-PT5368,I-1)=(PS5387,PAS-1)
                                        (PT5367-PT5363,I-1)=(PS5368,PAS-1)
                                        (PT5362-PT5361,I-1)=(PS5363,PAS-1)
                                        (PT5360-PT5336,I-1)=(PS5361,PAS-1)
                                        (PT5335)=(PS5336)
                                        (PT5334-PT5310,I-1)=(PS5335,PAS-1)
                                        (PT5309)=(PS5310,PAS-1)
                                        (PT5308-PT5291,I-1)=(PS5309,PAS-1)
                                        (PT5290-PT5281,I-1)=(PS5291,PAS-1)$
**-------------------------------------------------------------------------**
* LIBRI TP 01                           MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                        MOT4=20+K10,TAG=10+K10,SIZE1,(CDP),
* LIBRI BD 01                           E990111(RW),STG
*************************************************************************
* BOUCL                1
* INPTR                  EA             RL4000,SI2,LTR1,MOT22
* MODET        EA        EB             *MOT28=MOT2,105000,DIV,FRAC,105000,MULT
* DTBXY        EB        EB             CL300,LXY1,LGE1,GAMMA0.33,RENUM
* QSORT        EB        EG             SORT=UN4,DEUX20,NT50000,PROCS=YB3+B4
* FINBO
* BOUCL                3
* OUTBD        EG                       LBD01,F3
* DECON        EG        EH             (W300-W1600,L120,F1001),LMU11
* HISTA        EH        EI             LST11,RS80,80,HAB
* FANMO        EI        EJ             LVI11,LMU1
* DYNQU        EJ        RY             L1000
* STACK        RY        S5             LAND
* FINBO
* BOUCL                4
* FILTR        S5        OB             LCN11
* DYNQU        OB        OK             L1000
* WUNET        OK                       FILE=local:+
                                        FILE=stkGh1_lib1.cst
* PLOTX        OK                       PLOTTER=BW24,ECH30,PAS5,AG,GO,LSO,
                                        NT2000,GD,CT100,HBCT100,EP500,1000,
                                        MOT4,MOT2,HISTORY,
                                        TOP,(BRUTE-STACK P-SV MODE)
                                        SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                 X(YB1)
```

```
*****************************************************************************
**                          PROGRAM BRUTE-STACK                            **
**                   (CROSS-LINE COMPONENT TANPA GAMMA)                    **
*****************************************************************************
* LIBRI TR                          CREW1206908,(E501),F1,
                                    SELEC=MOT22=
                                    (1003-1030),(1032-1037),
                                    (1039-1041),(1043-1044),
                                    (1046-1082),(1084-1092),
                                    (1094-1100),(1103-1105),
                                    (1107-1118),(1120-1128),
                                    (1130-1148),(1150-1154),
                                    (1157-1158),(1161-1185),
                                    1187,(1190-1214),1216,
                                    (1218-1235),(1238-1247),
                                    ET,MOT17=(81-160)
*****************************************************************************
* LIBRI CN 11                       B(4,8,90,100),SI2
* LIBRI VI 11 TN                    MOT4,(1-99999)=T168V1500,
                                    T700V900,T1000V960,
                                    T1200V1020,T1600V1060,
                                    T2200V1140,T2850V1230,
                                    T3600V1310,T3850V1400,VF1450
** MUTE DECON **
* LIBRI MU 11                       MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**  MUTE NMO  **
* LIBRI MU 01                       MOT4,(1-1000)=M31X45,
                                    M269X313,M849X671,M1321X1240
                                    ,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB XY 01                       FILE=/proj/33301401/JOBS/xy_LIB1
* RDLIB ST 11                       FILE=/proj/3330401/JOBS/1st198_P.libo
* LIBRI GE 01                       XS30,XM15$
                                    (PS1-PS10000)=(X1)$
                                    (PT5502-PT5475,I-1)=(X5501.5,I-1)
                                    (PT5474-PT5469,I-1)=(X5473.5,I-1)
                                    (PT5468-PT5466,I-1)=(X5467.5,I-1)
                                    (PT5465-PT5464,I-1)=(X5464.5,I-1)
                                    (PT5463-PT5427,I-1)=(X5462.5,I-1)
                                    (PT5426-PT5423,I-1)=(X5425.5,I-1)
                                    (PT5422-PT5418,I-1)=(X5421.5,I-1)
                                    (PT5417-PT5411,I-1)=(X5416.5,I-1)
                                    (PT5410-PT5408,I-1)=(X5409.5,I-1)
                                    (PT5407-PT5396,I-1)=(X5406.5,I-1)
                                    (PT5395-PT5387,I-1)=(X5394.5,I-1)
                                    (PT5386-PT5368,I-1)=(X5385.5,I-1)
                                    (PT5367-PT5363,I-1)=(X5366.5,I-1)
                                    (PT5362-PT5361,I-1)=(X5361.5,I-1)
                                    (PT5360-PT5336,I-1)=(X5359.5,I-1)
                                    (PT5335)=(X5334.5)
                                    (PT5334-PT5310,I-1)=(X5333.5,I-1)
                                    (PT5308)=(X5307.5)
                                    (PT5290-PT5281,I-1)=(X5289.5,I-1)$
**-------------------------------------------------------------------------**
                                    (PT5502-PT5475,I-1)=T80(1-80)
                                    (PT5474-PT5469,I-1)=T80(1-80)
                                    (PT5468-PT5466,I-1)=T80(1-80)
                                    (PT5465-PT5464,I-1)=T80(1-80)
                                    (PT5463-PT5427,I-1)=T80(1-80)
                                    (PT5426-PT5423,I-1)=T80(1-80)
```

```
                                        (PT5422-PT5418,I-1)=T80(1-80)
                                        (PT5417-PT5411,I-1)=T80(1-80)
                                        (PT5410-PT5408,I-1)=T80(1-80)
                                        (PT5407-PT5396,I-1)=T80(1-80)
                                        (PT5395-PT5387,I-1)=T80(1-80)
                                        (PT5386-PT5368,I-1)=T80(1-80)
                                        (PT5367-PT5363,I-1)=T80(1-80)
                                        (PT5362-PT5361,I-1)=T80(1-80)
                                        (PT5360-PT5336,I-1)=T80(1-80)
                                        (PT5335)=T80(1-80)
                                        (PT5334-PT5310,I-1)=T80(1-80)
                                        (PT5309)=T80(1-80)
                                        (PT5308-PT5291,I-1)=T80(1-80)
                                        (PT5290-PT5281,I-1)=T80(1-80)$
**-------------------------------------------------------------------------**
                                        (PT5502-PT5423,I-1)=(PS5424,PAS0)
                                        (PT5422-PT5418,I-1)=(PS5423,PAS-1)
                                        (PT5417-PT5411,I-1)=(PS5418,PAS-1)
                                        (PT5410-PT5408,I-1)=(PS5411,PAS-1)
                                        (PT5407-PT5396,I-1)=(PS5408,PAS-1)
                                        (PT5395-PT5387,I-1)=(PS5396,PAS-1)
                                        (PT5386-PT5368,I-1)=(PS5387,PAS-1)
                                        (PT5367-PT5363,I-1)=(PS5368,PAS-1)
                                        (PT5362-PT5361,I-1)=(PS5363,PAS-1)
                                        (PT5360-PT5336,I-1)=(PS5361,PAS-1)
                                        (PT5335)=(PS5336)
                                        (PT5334-PT5310,I-1)=(PS5335,PAS-1)
                                        (PT5309)=(PS5310,PAS-1)
                                        (PT5308-PT5291,I-1)=(PS5309,PAS-1)
                                        (PT5290-PT5281,I-1)=(PS5291,PAS-1)$
**-------------------------------------------------------------------------**
* LIBRI TP 01                           MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                        MOT4=20+K10,TAG=10+K10,SIZE1,(CDP),
* LIBRI BD 01                           E990122(RW),STG
*************************************************************************
* BOUCL                1
* INPTR                  EA             RL4000,SI2,LTR1,MOT22
* MODET        EA        EA             *MOT17=MOT17,80,MIN
* MODET        EA        EB             *MOT28=MOT2,105000,DIV,FRAC,105000,MULT
* DTBXY        EB        EB             CL300,LXY1,LGE1,RENUM
* QSORT        EB        EG             SORT=UN4,DEUX20,NT50000,PROCS=YB3+B4
* FINBO
* BOUCL                3
* OUTBD        EG                       LBD01,F3
* DECON        EG        EH             (W300-W1600,L120,F1001),LMU11
* HISTA        EH        EI             LST11,RS80,80,HAB
* FANMO        EI        EJ             LVI11,LMU1
* DYNQU        EJ        RY             L1000
* STACK        RY        S5             LAND
* FINBO
* BOUCL                4
* FILTR        S5        OB             LCN11
* DYNQU        OB        OK             L1000
* WUNET        OK                       FILE=local:+
                                        FILE=stkNGh2_lib1.cst
* PLOTX        OK                       PLOTTER=BW24,ECH30,PAS5,AG,GO,LSO,
                                        NT2000,GD,CT100,HBCT100,EP500,1000,
                                        MOT4,MOT2,HISTORY,
                                        TOP,(BRUTE-STACK SH-SH MODE)
                                        SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                 X(YB1)
```

```
*****************************************************************************
**                          PROGRAM BRUTE-STACK                            **
**                   (VERTICAL COMPONENT TANPA GAMMA)                      **
*****************************************************************************
* LIBRI TR                          CREW1206908,(E501),F1,
                                    SELEC=MOT22=
                                    (1003-1030),(1032-1037),
                                    (1039-1041),(1043-1044),
                                    (1046-1082),(1084-1092),
                                    (1094-1100),(1103-1105),
                                    (1107-1118),(1120-1128),
                                    (1130-1148),(1150-1154),
                                    (1157-1158),(1161-1185),
                                    1187,(1190-1214),1216,
                                    (1218-1235),(1238-1247),
                                    ET,MOT17=(161-240)
*****************************************************************************
* LIBRI CN 11                       B(4,8,90,100),SI2
* LIBRI VI 12                       MOT4,(1-99999)=T150V1551,
                                    T275V1589,T550V1724,
                                    T1075V2015,T1400V2314,
                                    T1700V2600,T2475V3279,
                                    T3350V3734,VF4000
** MUTE DECON **
* LIBRI MU 11                       MOT4,(1-1000)=M10X195,M1360X2420,TAP12
**  MUTE NMO  **
* LIBRI MU 12                       MOT4,(1-1000)=M10X195,M2300X2420,TAP12
*****************************************************************************
* RDLIB XY 01                       FILE=/proj/33301401/JOBS/xy_LIB1
* RDLIB ST 11                       FILE=/proj/3330401/JOBS/lst198_P.libo
* LIBRI GE 01                       XS30,XM15$
                                    (PS1-PS10000)=(X1)$
                                    (PT5502-PT5475,I-1)=(X5501.5,I-1)
                                    (PT5474-PT5469,I-1)=(X5473.5,I-1)
                                    (PT5468-PT5466,I-1)=(X5467.5,I-1)
                                    (PT5465-PT5464,I-1)=(X5464.5,I-1)
                                    (PT5463-PT5427,I-1)=(X5462.5,I-1)
                                    (PT5426-PT5423,I-1)=(X5425.5,I-1)
                                    (PT5422-PT5418,I-1)=(X5421.5,I-1)
                                    (PT5417-PT5411,I-1)=(X5416.5,I-1)
                                    (PT5410-PT5408,I-1)=(X5409.5,I-1)
                                    (PT5407-PT5396,I-1)=(X5406.5,I-1)
                                    (PT5395-PT5387,I-1)=(X5394.5,I-1)
                                    (PT5386-PT5368,I-1)=(X5385.5,I-1)
                                    (PT5367-PT5363,I-1)=(X5366.5,I-1)
                                    (PT5362-PT5361,I-1)=(X5361.5,I-1)
                                    (PT5360-PT5336,I-1)=(X5359.5,I-1)
                                    (PT5335)=(X5334.5)
                                    (PT5334-PT5310,I-1)=(X5333.5,I-1)
                                    (PT5308)=(X5307.5)
                                    (PT5290-PT5281,I-1)=(X5289.5,I-1)$
**-----------------------------------------------------------------------**
                                    (PT5502-PT5475,I-1)=T80(1-80)
                                    (PT5474-PT5469,I-1)=T80(1-80)
                                    (PT5468-PT5466,I-1)=T80(1-80)
                                    (PT5465-PT5464,I-1)=T80(1-80)
                                    (PT5463-PT5427,I-1)=T80(1-80)
                                    (PT5426-PT5423,I-1)=T80(1-80)
                                    (PT5422-PT5418,I-1)=T80(1-80)
                                    (PT5417-PT5411,I-1)=T80(1-80)
                                    (PT5410-PT5408,I-1)=T80(1-80)
```

```
                                        (PT5407-PT5396,I-1)=T80(1-80)
                                        (PT5395-PT5387,I-1)=T80(1-80)
                                        (PT5386-PT5368,I-1)=T80(1-80)
                                        (PT5367-PT5363,I-1)=T80(1-80)
                                        (PT5362-PT5361,I-1)=T80(1-80)
                                        (PT5360-PT5336,I-1)=T80(1-80)
                                        (PT5335)=T80(1-80)
                                        (PT5334-PT5310,I-1)=T80(1-80)
                                        (PT5309)=T80(1-80)
                                        (PT5308-PT5291,I-1)=T80(1-80)
                                        (PT5290-PT5281,I-1)=T80(1-80)$
**-------------------------------------------------------------------------**
                                        (PT5502-PT5423,I-1)=(PS5424,PAS0)
                                        (PT5422-PT5418,I-1)=(PS5423,PAS-1)
                                        (PT5417-PT5411,I-1)=(PS5418,PAS-1)
                                        (PT5410-PT5408,I-1)=(PS5411,PAS-1)
                                        (PT5407-PT5396,I-1)=(PS5408,PAS-1)
                                        (PT5395-PT5387,I-1)=(PS5396,PAS-1)
                                        (PT5386-PT5368,I-1)=(PS5387,PAS-1)
                                        (PT5367-PT5363,I-1)=(PS5368,PAS-1)
                                        (PT5362-PT5361,I-1)=(PS5363,PAS-1)
                                        (PT5360-PT5336,I-1)=(PS5361,PAS-1)
                                        (PT5335)=(PS5336)
                                        (PT5334-PT5310,I-1)=(PS5335,PAS-1)
                                        (PT5309)=(PS5310,PAS-1)
                                        (PT5308-PT5291,I-1)=(PS5309,PAS-1)
                                        (PT5290-PT5281,I-1)=(PS5291,PAS-1)$
**-------------------------------------------------------------------------**
* LIBRI TP 01                           MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                        MOT4=20+K10,TAG=10+K10,SIZE1,(CDP),
* LIBRI BD 01                           E990132(RW),STG
*************************************************************************
* BOUCL                1
* INPTR                  EA             RL4000,SI2,LTR1,MOT22
* MODET        EA        EA             *MOT17=MOT17,160,MIN
* MODET        EA        EB             *MOT28=MOT2,105000,DIV,FRAC,105000,MULT
* DTBXY        EB        EB             CL300,LXY1,LGE1,RENUM
* QSORT        EB        EG             SORT=UN4,DEUX20,NT50000,PROCS=YB3+B4
* FINBO
* BOUCL                3
* OUTBD        EG                       LBD01,F3
* DECON        EG        EH             (W300-W1600,L120,F1001),LMU11
* HISTA        EH        EI             LST11,RS80,80,HAB
* FANMO        EI        EJ             LVI12,LMU12
* DYNQU        EJ        RY             L1000
* STACK        RY        S5             LAND
* FINBO
* BOUCL                4
* FILTR        S5        OB             LCN11
* DYNQU        OB        OK             L1000
* WUNET        OK                       FILE=local:+
                                        FILE=stkNGv3_lib1.cst
* PLOTX        OK                       PLOTTER=BW24,ECH30,PAS5,AG,GO,LSO,
                                        NT2000,GD,CT100,HBCT100,EP500,1000,
                                        MOT4,MOT2,HISTORY,
                                        TOP,(BRUTE-STACK P-P MODE)
                                        SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                 X(YB1)
```

```
*************************************************************************
**                          PROGRAM ANALISIS KECEPATAN I                **
**                        (IN-LINE COMPONENT TANPA GAMMA)               **
*************************************************************************
* LIBRI TR 01                          CREW3330401,(E990112),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 05                          B(0,5,38,53),SI2
* LIBRI VI 11 TN                       MOT4,(1-99999)=T168V1500,
                                       T700V900,T1000V960,
                                       T1200V1020,T1600V1060,
                                       T2200V1140,T2850V1230,
                                       T3600V1310,T3850V1400,VF1450
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FILTR        EC      ED              LCN5
* DYNQU        ED      EE              L500
* MODET        EE      EF              *MOT19=237
* ANVIT VC     EF      EG              LMU01,XRM2445,YMX60,LVI11,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET        DX                      FILE=velNGh1_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*************************************************************************
**                          PROGRAM ANALISIS KECEPATAN I                 **
**                       (IN-LINE COMPONENT DENGAN GAMMA)                **
*************************************************************************
* LIBRI TR 01                          CREW3330401,(E990111),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 05                          B(0,5,38,53),SI2
* LIBRI VI 11 TN                       MOT4,(1-99999)=T168V1500,
                                       T700V900,T1000V960,
                                       T1200V1020,T1600V1060,
                                       T2200V1140,T2850V1230,
                                       T3600V1310,T3850V1400,VF1450
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FILTR        EC      ED              LCN5
* DYNQU        ED      EE              L500
* MODET        EE      EF              *MOT19=237
* ANVIT VC     EF      EG              LMU01,XRM2445,YMX60,LVI11,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET        DX                      FILE=velGh1_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*****************************************************************************
**                          PROGRAM ANALISIS KECEPATAN I                   **
**                       (CROSS-LINE COMPONENT TANPA GAMMA)                **
*****************************************************************************
* LIBRI TR 01                          CREW3330401,(E990122),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 05                          B(0,5,38,53),SI2
* LIBRI VI 11 TN                       MOT4,(1-99999)=T168V1500,
                                       T700V900,T1000V960,
                                       T1200V1020,T1600V1060,
                                       T2200V1140,T2850V1230,
                                       T3600V1310,T3850V1400,VF1450
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL                1
* INPTR                  EA            RL4000,SI2,LTR1,MOT4
* DECON        EA        EB            (W300-W1600,L120,F1001),LMU11
* HISTA        EB        EC            LST11,RS80,80,HAB
* FILTR        EC        ED            LCN5
* DYNQU        ED        EE            L500
* MODET        EE        EF            *MOT19=237
* ANVIT VC     EF        EG            LMU01,XRM2445,YMX60,LVI11,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL                2
* WUNET        DX                      FILE=velNGh2_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*************************************************************************
**                    PROGRAM ANALISIS KECEPATAN I                     **
**                 (VERTICAL COMPONENT TANPA GAMMA)                    **
*************************************************************************
* LIBRI TR 01                        CREW3330401,(E990132),F1,STG,
                                     SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 02                        B(4,14,65,75),SI2
* LIBRI VI 12                        MOT4,(1-99999)=T150V1551,
                                     T275V1589,T550V1724,
                                     T1075V2015,T1400V2314,
                                     T1700V2600,T2475V3279,
                                     T3350V3734,VF4000
**  MUTE DECON  **
* LIBRI MU 11                        MOT4,(1-1000)=M10X195,M1300X2420,TAP12
**   MUTE NMO   **
* LIBRI MU 12                        MOT4,(1-1000)=M10X195,M2300X2420,TAP12
*************************************************************************
* RDLIB ST 11                        FILE=/proj/3330401/JOBS/lst198_P.libo
* LIBRI TP 01                        MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                     MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA            RL4000,SI2,LTR1,MOT4
* DECON        EA      EB            (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC            LST11,RS80,80,HAB
* FILTR        EC      ED            LCN2
* DYNQU        ED      EE            L500
* MODET        EE      EF            *MOT19=237
* ANVIT VC     EF      EG            LMU12,XRM2445,YMX60,LVI12,NMU3,DDT24,
                                     A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                     VB1900,(10-1000,I40,G21),VELITR,
                                     OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET        DX                    FILE=velv3_lib1.cst
* FINBO
* PROCS                              X(YB1)
```

```
*************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL I                **
**                     (IN-LINE COMPONENT TANPA GAMMA)                 **
*************************************************************************
* LIBRI TR 01                          CREW3330401,(E990112),F1,STG
* LIBRI CN 02                          B(6,16,28,38),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/1st198_P.libo
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velh1_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FANMO        EC      ED              LVI1,FMAX90,LMU1
* DYNQU        ED      EE              L1000
* SATAN        EE      EF              TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                       SI2,LCN02,NRCV422,NPT223,
                                       (1-443)=P-50,50,W500-W2000,
                                       UDFILE=1stSAT1N
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                      FILE=sat1NGh1_lib1.cst
* PLOTX        EI                      PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                       LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                       1000,MOT4,MOT2,HISTORY,
                                       TOP,(RESIDUAL STATIC CORRECTION I SV-SV
                      MODE)
                                       SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                X(YB1)
```

```
*****************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL I                    **
**                    (IN-LINE COMPONENT DENGAN GAMMA)                     **
*****************************************************************************
* LIBRI TR 01                          CREW3330401,(E990111),F1,STG
* LIBRI CN 02                          B(6,16,28,38),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velhl_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FANMO        EC      ED              LVI1,FMAX90,LMU1
* DYNQU        ED      EE              L1000
* SATAN        EE      EF              TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                       SI2,LCN02,NRCV422,NPT223,
                                       (1-443)=P-50,50,W500-W2000,
                                       UDFILE=lstSAT1G
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                      FILE=sat1Ghl_lib1.cst
* PLOTX        EI                      PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                       LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                       1000,MOT4,MOT2,HISTORY,
                                       TOP,(RESIDUAL STATIC CORRECTION I P-SV
                      MODE)
                                       SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                X(YB1)
```

```
*************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL I                **
**                    (CROSS-LINE COMPONENT TANPA GAMMA)               **
*************************************************************************
* LIBRI TR 01                        CPEW3330401,(E990122),F1,STG
* LIBRI CN 02                        B(6,16,28,38),SI2
**  MUTE DECON  **
* LIBRI MU 11                        MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                        MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                     M1321X1240,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB ST 11                        FILE=/proj/3330401/JOBS/1st198_P.libo
* RDLIB VI 01                        FILE=/proj/3330401/LIBRIS/velh1_lib1.lvi
* LIBRI TP 01                        MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                     MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA            RL4000,SI2,LTR1,MOT4
* DECON        EA      EB            (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC            LST11,RS80,80,HAB
* FANMO        EC      ED            LVI1,FMAX90,LMU1
* DYNQU        ED      EE            L1000
* SATAN        EE      EF            TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                     SI2,LCN02,NRCV422,NPT223,
                                     (1-443)=P-50,50,W500-W2000,
                                     UDFILE=1stSAT2N

* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                    FILE=sat1NGh2_lib1.cst
* PLOTX        EI                    PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                     LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                     1000,MOT4,MOT2,HISTORY,
                                     TOP,(RESIDUAL STATIC CORRECTION I SH-SH
                      MODE)
                                     SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                              X(YB1)
```

```
*****************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL I                    **
**                    (VERTICAL COMPONENT TANPA GAMMA)                     **
*****************************************************************************
* LIBRI TR 01                          CREW3330401,(E990132),F1,STG
* LIBRI CN 02                          B(4,14,65,75),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1360X2420,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M10X195,M2300X2420,TAP12
*****************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velv3_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FANMO        EC      ED              LVI1,FMAX90,LMU1
* DYNQU        ED      EE              L1000
* SATAN        EE      EF              TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                       SI2,LCN02,NRCV422,NPT223,
                                       (1-443)=P-30,30,W300-W2000,
                                       UDFILE=lstSAT3N
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                      FILE=satlNGv3_lib1.cst
* PLOTX        EI                      PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                       LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                       1000,MOT4,MOT2,HISTORY,
                                       TOP,(RESIDUAL STATIC CORRECTION I P-P
                      MODE)
                                       SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                X(YB1)
```

```
*************************************************************************
**                        PROGRAM ANALISIS KECEPATAN II                **
**                      (IN-LINE COMPONENT TANPA GAMMA)                **
*************************************************************************
* LIBRI TR 01                          CREW3330401,(E990112),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 05                          B(0,5,38,53),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                          FILE=/proj/3330401/LIBRIS/lstSAT1N
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velhl_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON       EA       EB              (W300-W1600,L120,F1001),LMU11
* HISTA       EB       EC              LST11,RS80,60,HAB
* FILTR       EC       ED              LCN5
* HISTA       ED       EE              LST1
* DYNQU       EE       EF              L500
* MODET       EG       EH              *MOT19=237
* ANVIT VC    EI       EJ              LMU01,XRM2445,YMX60,LVI1,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET       DX                       FILE=ve2NGhl_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*****************************************************************************
**                          PROGRAM ANALISIS KECEPATAN II                  **
**                        (IN-LINE COMPONENT DENGAN GAMMA)                 **
*****************************************************************************
* LIBRI TR 01                          CREW3330401,(E990111),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 05                          B(0,5,38,53),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                          FILE=/proj/3330401/LIBRIS/lstSAT1N
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velh1_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FILTR        EC      ED              LCN5
* HISTA        ED      EE              LST1
* DYNQU        EE      EF              L500
* MODET        EG      EH              *MOT19=237
* ANVIT VC     EI      EJ              LMU01,XRM2445,YMX60,LVI1,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET        DX                      FILE=ve2Gh1_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*****************************************************************************
**                          PROGRAM ANALISIS KECEPATAN II                  **
**                       (CROSS-LINE COMPONENT TANPA GAMMA)                **
*****************************************************************************
* LIBRI TR 01                          CREW3330401,(E990122),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 05                          B(0,5,38,53),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                          FILE=/proj/3330401/LIBRIS/lstSAT2N
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velh1_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FILTR        EC      ED              LCN5
* HISTA        ED      EE              LST1
* DYNQU        EE      EF              L500
* MODET        EG      EH              *MOT19=237
* ANVIT VC     EI      EJ              LMU01,XRM2445,YMX60,LVI1,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET        DX                      FILE=ve2NGh2_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*************************************************************************
**                        PROGRAM ANALISIS KECEPATAN II                **
**                     (VERTICAL COMPONENT TANPA GAMMA)                **
*************************************************************************
* LIBRI TR 01                          CREW3330401,(E990132),F1,STG,
                                       SELEC=MOT4=(10-1000,I40,G21)
* LIBRI CN 02                          B(4,14,65,75),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2420,TAP12
**   MUTE NMO   **
* LIBRI MU 12                          MOT4,(1-1000)=M10X195,M2300X2420,TAP12
*************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                          FILE=/proj/3330401/LIBRIS/lstSAT3N
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/velv3_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* FILTR        EC      ED              LCN2
* HISTA        ED      EE              LST1
* DYNQU        EE      EF              L500
* MODET        EG      EH              *MOT19=237
* ANVIT VC     EI      EJ              LMU12,XRM2445,YMX60,LVI1,NMU3,DDT24,
                                       A1.2,OT1,NM21,VLAW9,LD2000,IL1,VA700,
                                       VB1900,(10-1000,I40,G21),VELITR,
                                       OS1=DX,BX2
* FINBO
* BOUCL              2
* WUNET        DX                      FILE=ve2v3_lib1.cst
* FINBO
* PROCS                                X(YB1)
```

```
*****************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL II                   **
**                     (IN-LINE COMPONENT TANPA GAMMA)                     **
*****************************************************************************
* LIBRI TR 01                        CREW3330401,(E990112),F1,STG
* LIBRI CN 02                        B(6,16,28,38),SI2
**  MUTE DECON  **
* LIBRI MU 11                        MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                        MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                     M1321X1240,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB ST 11                        FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                        FILE=/proj/3330401/LIBRIS/lstSAT1N
* RDLIB VI 01                        FILE=/proj/3330401/LIBRIS/ve2NGh1_lib1.lvi
* LIBRI TP 01                        MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                     MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL              1
* INPTR                EA            RL4000,SI2,LTR1,MOT4
* DECON        EA      EB            (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC            LST11,RS80,80,HAB
* HISTA        EC      ED            LST1
* FANMO        ED      EE            LVI1,FMAX90,LMU1
* DYNQU        EE      EF            L1000
* SATAN        EF      EG            TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                     SI2,LCN02,NRCV422,NPT223,
                                     (1-443)=P-50,50,W500-W2000,
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                    FILE=sat2NGh1_lib1.cst
* PLOTX        EI                    PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                     LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                     1000,MOT4,MOT2,HISTORY,
                                     TOP,(RESIDUAL STATIC CORRECTION II SV-SV
                                     MODE)
                                     SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                              X(YB1)
```

```
*****************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL II                   **
**                     (IN-LINE COMPONENT DENGAN GAMMA)                    **
*****************************************************************************
* LIBRI TR 01                          CREW3330401,(E990111),F1,STG
* LIBRI CN 02                          B(6,16,28,38),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*****************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                          FILE=/proj/3330401/LIBRIS/lstSAT1G
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/ve2Ghl_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*****************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* HISTA        EC      ED              LST1
* FANMO        ED      EE              LVI1,FMAX90,LMU1
* DYNQU        EE      EF              L1000
* SATAN        EF      EG              TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                       SI2,LCN02,NRCV422,NPT223,
                                       (1-443)=P-50,50,W500-W2000,
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                      FILE=sat2Ghl_lib1.cst
* PLOTX        EI                      PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                       LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                       1000,MOT4,MOT2,HISTORY,
                                       TOP,(RESIDUAL STATIC CORRECTION II P-SV
                                       MODE)
                                       SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                                X(YB1)
```

```
*************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL II                **
**                    (CROSS-LINE COMPONENT TANPA GAMMA)                **
*************************************************************************
* LIBRI TR 01                          CREW3330401,(E990122),F1,STG
* LIBRI CN 02                          B(6,16,28,38),SI2
**  MUTE DECON  **
* LIBRI MU 11                          MOT4,(1-1000)=M10X195,M1300X2410,TAP12
**   MUTE NMO   **
* LIBRI MU 01                          MOT4,(1-1000)=M31X45,M269X313,M849X671,
                                       M1321X1240,M2147X1990,M2506X2350,TAP12
*************************************************************************
* RDLIB ST 11                          FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                          FILE=/proj/3330401/LIBRIS/lstSAT2N
* RDLIB VI 01                          FILE=/proj/3330401/LIBRIS/ve2NGh2_lib1.lvi
* LIBRI TP 01                          MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                       MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA              RL4000,SI2,LTR1,MOT4
* DECON        EA      EB              (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC              LST11,RS80,80,HAB
* HISTA        EC      ED              LST1
* FANMO        ED      EE              LVI1,FMAX90,LMU1
* DYNQU        EE      EF              L1000
* SATAN        EF      EG              TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                       SI2,LCN02,NRCV422,NPT223,
                                       (1-443)=P-50,50,W500-W2000,
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                      FILE=sat2NGh2_lib1.cst
* PLOTX        EI                      PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                       LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                       1000,MOT4,MOT2,HISTORY,
                                       TOP,(RESIDUAL STATIC CORRECTION II SH-SH
                                       MODE)
                                       SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                               X(YB1)
```

```
*************************************************************************
**                    PROGRAM KOREKSI STATIK RESIDUAL II                **
**                    (VERTICAL COMPONENT TANPA GAMMA)                  **
*************************************************************************
* LIBRI TR 01                        CREW3330401,(E990132),F1,STG
* LIBRI CN 02                        B(4,14,65,75),SI2
**  MUTE DECON  **
* LIBRI MU 11                        MOT4,(1-1000)=M10X195,M1360X2420,TAP12
**   MUTE NMO   **
* LIBRI MU 12                        MOT4,(1-1000)=M31X195,M2300X2420,TAP12
*************************************************************************
* RDLIB ST 11                        FILE=/proj/3330401/JOBS/lst198_P.libo
* RDLIB ST 01                        FILE=/proj/3330401/LIBRIS/lstSAT3N
* RDLIB VI 01                        FILE=/proj/3330401/LIBRIS/ve2v3_lib1.lvi
* LIBRI TP 01                        MOT2=1,10+K10,TAG=5+K5,SIZE2,(SHOTPOINT)
                                     MOT4=20+K10,TAG=10+K10,SIZE1,(CDP)
*************************************************************************
* BOUCL              1
* INPTR                EA            RL4000,SI2,LTR1,MOT4
* DECON        EA      EB            (W300-W1600,L120,F1001),LMU11
* HISTA        EB      EC            LST11,RS80,80,HAB
* HISTA        EC      ED            LST1
* FANMO        ED      EE            LVI1,FMAX90,LMU12
* DYNQU        EE      EF            L1000
* SATAN        EF      EG            TIR80,YMX64,NPMR95,YB2+B3,NT48,NUL10,
                                     SI2,LCN02,NRCV422,NPT223,
                                     (1-443)=P-30,30,W300-W2000,
* FINBO
* BOUCL              2
* HISTA A      EG      EH
* STACK        EH      EI
* FINBO
* BOUCL              3
* WUNET        EI                    FILE=sat2NGv3_lib1.cst
* PLOTX        EI                    PLOTTER=BW24,ECH30,PAS3.5,AG,GO,LSO,
                                     LVI1,NT2000,GD,CT100,HBCT100,EP500,
                                     1000,MOT4,MOT2,HISTORY,
                                     TOP,(RESIDUAL STATIC CORRECTION II P-P
                                     MODE)
                                     SIDE,(TIME IN  SECOND)
* FINBO
* PROCS                              X(YB1)
```

ELNUSA GEOSAINS
A MEMBER OF ELNUSA GROUP

SURAT KETERANGAN

No. 003/KET/GSC/A030/II/99

Yang bertanda tangan dibawah ini :

N a m a	:	**Hafid Mulyadi**
No. Karyawan	:	**01911682**
Jabatan	:	**Manager HRD**

menerangkan bahwa :

N a m a	:	**Andi Susilo**
NIM	:	**J 401 94 1134**
Jurusan	:	**Fisika**
Fakultas	:	**Matematika dan Ilmu Pengetahuan Alam Universitas Diponegoro**

Telah melaksanakan Penelitian Tugas Akhir pada **PT. Elnusa Geosains** sejak tanggal 3 **Nopember 1998** s/d **30 Januari 1999.**

Demikianlah Surat Keterangan ini dibuat agar dapat dipergunakan sebagaimana mestinya.

Jakarta, 1 Februari 1999

Hormat kami,
PT. ELNUSA GEOSAINS

ELNUSA GEOSAINS

Hafid Mulyadi

GRAHA ELNUSA JL. TB. SIMATUPANG NO. 18, 13 - 14 FL. JAKARTA 12560 - PO BOX 1790/JKT 12017. FAX : 62 - 21 - 78831072. TELP. : 62 - 21 - 78830866 (Hunting)