

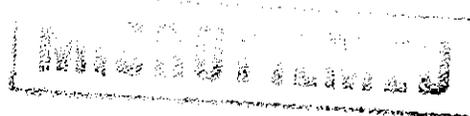
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BURNS PEAK

EL 44/88

REHABILITATION PROGRAM



H. RAE
JUNE 1990

91-3223.

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BURNS PEAK EL 44/88**REHABILITATION PLAN****INTRODUCTION**

The purpose of this rehabilitation plan is to promote a systematic and cost effective approach for a rehabilitation program for EL 44/88.

There is a need for a co-ordinated plan to rationalise the use of equipment, labour and time required to carry out this program.

Identify and upgrade major access roads, establish test areas to find the optimum method for promoting revegetation and liaison with the Mines Dept. to capitalize on the availability of earth moving equipment will greatly assist the implementation of the plan.

The rehabilitation plan should be updated as work is completed and can be added to if further areas requiring rehabilitation are identified.

H. Rae
Geological Technician
Rosebery

Report and Maps compiled June 1990.

RECOMMENDATIONS FOR REHABILITATION WORK ON EL 44/88

1. Continue removal of rubbish from lease; old PVC pipe, 44 gallon drums etc.
2. Spread fertilizer on areas where revegetation is marginal.
3. Employ slashed vegetation techniques on areas where revegetation is marginal.
4. Establish test areas to determine optimum amount of fertilizer to use, slashed vegetation versus area left bare, etc.
5. Establish main access routes, block off roads no longer required.
6. Improve drainage on all roads.
7. Use excavator in preference to bulldozer for majority of rehabilitation work.
8. Ensure contractors on lease leave no rubbish, and do not empty sump oil on ground etc.
9. Assess costeans for purposes of geological interest and promote regrowth in costeans deemed to be of little interest.
10. Liaise with Mines Dept re: rehabilitation of old workings and availability of excavator to carry out work.

REHABILITATION WORK CARRIED OUT ON EL 44/88

1. 26th September, 1989 - Drill pads BPD62, 63, & 65; excavator re-contoured soil and reduced pad size to minimum access.
2. 27th September, 1989 - Drains dug by excavator on access road to Leo's Find and BPD62.
3. 27th September, 1989 - Log drain put in near Thomas's Tunnel and road upgraded with excavator.
4. 27th September, 1989 - Mine tailing from Thomas's Tunnel contoured around BPD63, creek diverted to original course.
5. Rubbish left by previous contractors being removed from lease.
6. 25th May, 1989 - 1 tonne of fertilizer purchased for use on rehabilitation areas.
7. Numerous cross drains put in with pick and shovel.

ROADS ON EL 44/88 NOT MAINTAINED BY GEOPEKO

1. Road to Burns Peak trig station, maintained by Surveyor General's Dept.
2. Road to Mt Kershaw trig station, maintained by Surveyor General's Dept.
3. Hydro Electric Commission access roads (reference numbers 1B to 10B, Sheet 2).

BURNS PEAK EL 44/88**REHABILITATION PLAN**

EXPLANATION OF REFERENCE NOS.

AREA	COMMENTS
1. Drain needed on road, shovel and pick.	
2. as above	
3. as above	
4. Road cut up through vehicles turning onto access to BPO65. Drain needed, dozer to repair.	
5. Drain needed on road, shovel and pick.	
6. Road can be closed, alternative & better access available.	
7. Drain needed. 10m drop to main road, should be closed.	
8. Road no longer used, ti tree ~1m high growing on road.	
9. Best access to Leo's Find/BPO65.	
10. Drainage needed.	
11. Road impassable, drainage needed. Dozer needed to repair. Deep ruts on road.	
12. Revegetation on road. Ti tree and eucalypt over 1m high.	

13. Excavator could replace soil/spoil and close road.
14. Creeks running down road, need diverting. Need sleepers to divert water as no soil. Rock outcrop.
15. Old driller dam could be filled by excavator.
16. Drill hole EAB1. Good revegetation, ti tree, eucalypt and acacias. Could use fertilizer.
17. Road could be closed. Well advanced revegetation. Eucalypts over 3m tall.
18. John Wally cut (costean). Sides of cut revegetating well, not much growing on bottom. Drainage needed, sleepers etc as water running down bedrock.
19. Road to Burns Peak trig station, 2 drains needed - pick and shovel. Bulldozer needed for lower section. Road maintained by Surveyor General.
20. Costean - revegetation good. Ti tree, acacias and eucalypts ~ .5m.
21. Short road - 7m long. Excavator could pull in banks to fill in pond.
22. Road could be closed, alternative access available.
23. Drill hole EAF11. Excavator could reduce size of pad considerably.

24. Drains needed, could be dug with shovel and pick.
25. 10m long road, excavator could fill in, 5 min work.
26. Road very steep gradient.
27. Impassable to vehicles.
28. Drains needed. Road could be closed, alternative access available. Good revegetation on road. Ti tree and eucalypt ~ 2m high. Road ends in 2m drop to drill hole CP10.
29. Drill pad, not much soil/spoil left for contouring. Some revegetation, Ti tree, eucalypt and acacias under .5m high. Fertilizer would help.
30. Costean - very good revegetation.
31. Road very overgrown. Eucalypts over 3m high.
32. Unused drill pad. Starting to revegetate. Not much soil left for excavator to replace. Could use fertilizer.
33. Deep ruts on road, not impassable but should be filled. Drains needed.
34. Southern Trenches. Some revegetation.
35. Road impassable. Dozer needed to fill in ruts, etc. Drains needed - sleepers should be laid (corduroyed).
36. Dam built by Warren for BPD64, should be knocked

- down. Excavator would be best.
37. Old track? - revegetated track.
 38. Cross drains.
 39. Cross drains.
 40. Costean - good revegetation.
 41. Some revegetation, not much; no soil left. Deep scouring from run off, no where else for water to go.
 42. Culvert needed for runoff from costean.
 - 43.
 44. *Priority. Costean crosses road. Deep scouring. Road being washed away, will need culvert. Not much regeneration in costean, will need excavator & sleepers to build drains for run off.
 45. Cone Hill Rd - major access track. Deep scouring and wash aways, needs dozer to repair. Road impassable at present. Will need drainage to divert runoff.
 46. Road in reasonable condition. Good revegetation over 1m high and thick.
 47. Road completely overgrown.
 48. Road impassable, washouts, scouring etc. Would need dozer to fix. Best to close off road as alternative access is available.
 49. See 45.

50. Cleared area, unused drill pad. Some revegetation, mostly moraine shrubs. Excavator could smooth out banks etc. Application of fertilizer and slashed vegetation may promote revegetation.
51. Dozer drive could be filled in by excavator, mostly rock and scree.
52. Short unused road, could be filled in by excavator. There is sufficient soil/spoil.
53. Cross drain needed.
54. Costean, some revegetation; may benefit from application of fertilizer. Excavator could re-contour spoil.
55. Road overgrown with bracken, ferns, etc. Very good revegetation, vehicle access should be restricted.
56. Road impassable due to large tree fallen over road, good revegetation.
57. See 56.
58. Road needs 2 cross drains dug.
59. Cross drains required. Road has been ripped up by rig being pulled over it. Bulldozer could repair.
60. Road overgrown, good revegetation.
61. Road overgrown, good revegetation.

62. Road overgrown, good revegetation, sump on road needs draining.
63. Costean, good revegetation.
64. EAB4 - road and pad overgrown, good revegetation.
65. Road is no longer used, no soil left to fill deep ruts and scouring on road. If access not required road should be closed.
66. Steep hill, needs cross drains, deep ruts and scouring would need filling.
67. Culvert required.
68. Culvert required.
69. Road to costean passable, small bog near Hollway Creek requires caution. Road should be closed unless access required.
70. Costean, good revegetation.
71. EAF15 - no spoil left for contouring. Some revegetation, may benefit from application of fertilizer.
72. EAF16 - some revegetation, could benefit from application of fertilizer.
73. Culvert required.
74. Small dam filled by runoff from Brown's Tunnel.
75. Drains needed.

76. Excavator could contour, spoil area would benefit from fertilizer.
77. EAF 8, 6, 4 - spoil could be re-contoured by excavator. Very poor revegetation, may benefit from application of slashed vegetation and fertilizer.
78. EAF12 - excavator could reduce size of pad - some revegetation, mainly eucalypts and heath, fertilizing would be beneficial.
79. EAF13 - as above.
80. EAF11 - excavator could reduce size of pad. Would benefit from slashed vegetation and application of fertilizer.
81. Road to EAF5 impassable. Cross drains required to divert water. Road should be closed if not required.
82. Road to BPD62 needs cross drains and windrows broken to divert water.
83. Creek crosses road, may become impassable. Culvert required if vehicle access to BPD62 desirable.
84. Deep ruts and scouring - dozer/excavator could repair. Cross drains needed to divert water.
85. Road could be closed.
86. Old sump, excavator could fill in.

87. Road overgrown, good revegetation - ti tree, banksia over 1m tall.
88. Costean - good revegetation.
89. Road blocked by fallen tree.
90. Road overgrown, mainly ti tree and cutting grass. Cross drains needed.
91. Road becomes boggy in wet weather. Cross drains may fix.
92. Road into Silver Falls. Generally in good condition, cross drains where required, some parts rough where bedrock protrudes.

BURNS PEAK EL 44/88

REHABILITATION PLAN

EXPLANATION OF REFERENCE NOS.

AREA	COMMENTS
1. Cross drains need to be dug on Chester Rd where necessary.	
2. Hole in Hollway Ck bridge needs to be filled, water draining down road onto bridge needs to be diverted.	
3. Hollway Rd needs cross drains dug where necessary.	
4. Wash out (DIP) needs culvert and fill.	
5. Large permanent pools on road. Road needs draining, crosses low lying creek, drainage may be difficult to achieve.	
6. See 5.	
7. Road impassable due to deep ruts, could be fixed with excavator or dozer, cross drains needed at regular intervals. Apart from deep ruts, road in reasonable condition.	
8. Road impassable due to fallen trees, good regrowth of cutting grass, ti tree and eucalypts. Road should be closed if access not required.	
9. Costean. Very good revegetation in and around costean. Ti tree, eucalypt and myrtle, some regrowth over 3m tall.	

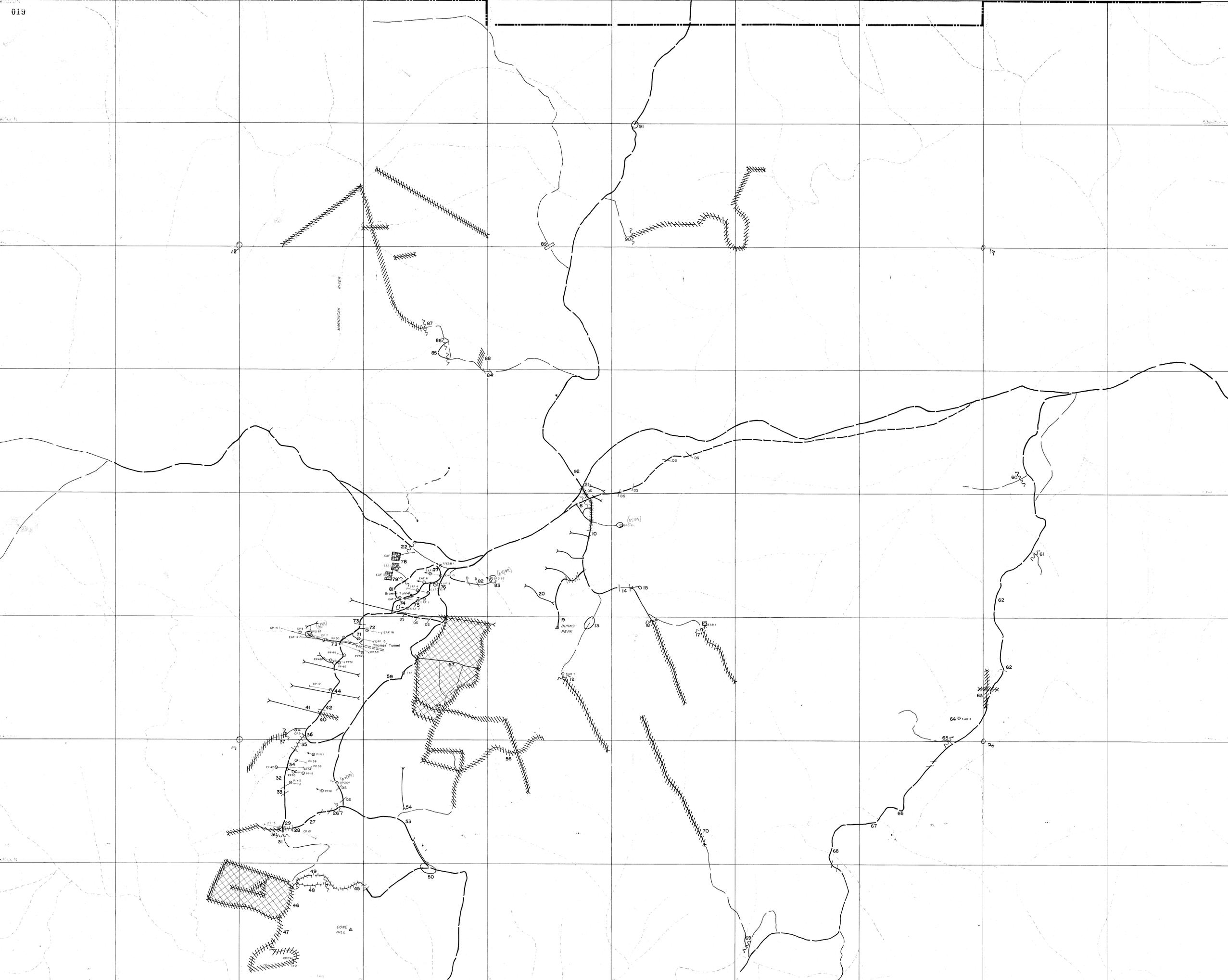
Water running down costean
would be difficult to divert.

10. Road to Mt Kershaw trig
needs extensive cross
drains and breaking of
windrows on bends. Road
is passable and in
reasonable condition.
11. CP3 drill site. Poor
revegetation. Applications
of slashed vegetation and
fertilizing may assist
regrowth.
12. Culvert or log drain
required. Road scoured
to bed rock, large
washout needs back
filling.
13. Section of road needs
drains dug. Road in
reasonable condition,
however is deteriorating
with water scouring to
bed rock, most cross
drains require excavator
to dig them.
14. Sections of road in
reasonable condition
and is passable to vehicles.
Cross drains required on
some sections.
15. Very boggy area, road
almost impassable.
Would need to be corduroyed
if vehicle access required,
remainder of road in
reasonable condition.
Good regrowth on some
sections.
16. Large tree (Myrtle)
across road, vehicle
access to CP3 impossible.
17. Large volume of water
running down road, deep
scouring and rock outcrops

- make road impassable.
Large cross drain
required to divert water.
Road will have to be back
filled if vehicle access
required. Excavator would
be ideal as plenty of
loose fill on sides of road.
18. Road in fair condition.
A lot of moss on road
and good revegetation
on some sections, ti
tree, cutting grass,
eucalypt and some myrtle.
Unless vehicle access is
required, best blocked off
and allowed to rehabilitate.
19. Road impassable due to
good regrowth of ti tree
and cutting grass. Best
blocked off.
20. CP17 drill pad. Some
fill still remains for
excavator to re-contour,
slow revegetation may
benefit from application
of slashed vegetation and
fertilizer.
21. Good revegetation on road.
Best closed and left to
rehabilitate.
22. Steep incline, road needs
cross drains. Road almost
impassable due to deep ruts,
alternative access available.
Road should be closed.
23. Steep incline. Road needs
cross drains and windrows
broken at regular ~10m
intervals. Road in
reasonable condition.
24. Road impassable due to
deep ruts and scouring,
requires table drain to
divert water. Road should

- be closed unless vehicle access required.
25. Roads completely overgrown with cutting grass, ti tree and eucalypts. Impassable to vehicles.
 26. Road impassable due to deep ruts and scouring, table drain required to channel water. Road should be closed unless vehicle access required.
 27. Road in good condition, some drains required.
 28. This section of road almost impassable due to large rock outcrops and all road fill washed away. Large cross drain at top of incline needed to divert water, outcrop will need blasting to improve vehicle access.
 29. This section of road in good condition. Cross drains should be dug where needed.
 30. Very steep incline, old cross drains need to be re-opened and windrows broken to divert water. Road in reasonable condition.
 31. Road almost impassable due to rock outcrop and loose fill. Outcrop needs blasting to repair.
 32. Section of road requires cross drains to divert water. Road in reasonable condition.
 33. Drill hole CH3 access road and drill pad overgrown, good revegetation.

34. Drill holes CP19 and CP20 - some revegetation, would benefit from application of fertilizer.
35. Drill holes CP21 and CP22 - some revegetation, would benefit from application of fertilizer. No spoil left to contour.



LEGEND

- Major access track.
- Superfluous track/access.
- Roadwork requiring bulldozer.
- Possible dieback area.
- Large log across track.
- Rejuvenated vegetation.
- Rejuvenated rainforest.
- No access.
- 64 Reference numbers for report notes.
- Lease boundary
- Watercourse
- Road
- CP 9 Drill hole
- Costean

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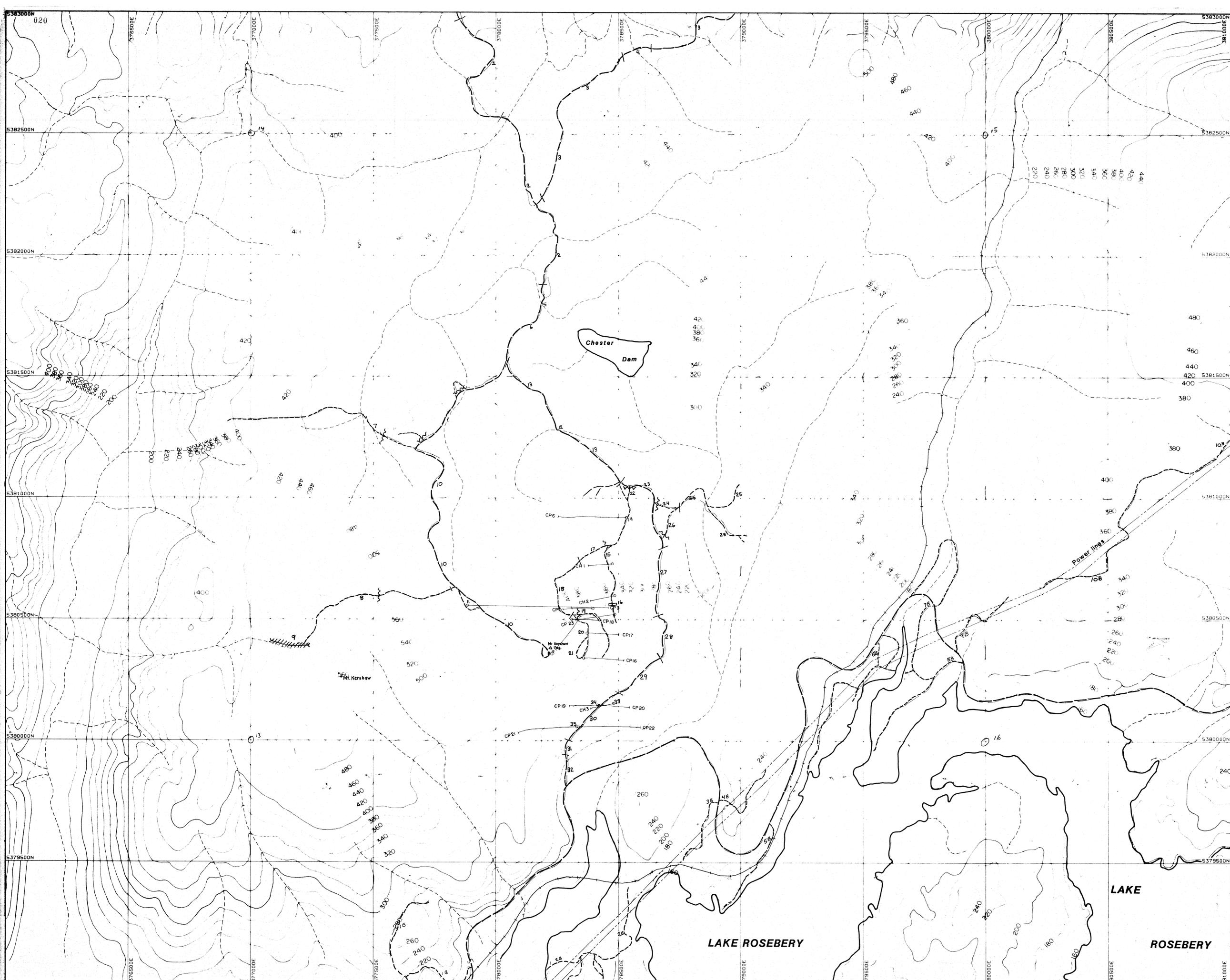
NORTH

91-3223.

NORTH BROKEN HILL PEXO LIMITED
MINERAL RESOURCES DIVISION
PROJECT: BURN'S PEAK E.L.44/88, TASMANIA.
SHEET 1

REHABILITATION PLAN

Scale = 1:5000	Survey =	Revised =
Drawn = N.W.D.S.	Date = 11-2-'90	Checked =



LEGEND

- Major access track.
- Superfluous track/access.
- Roadwork requiring bulldozer.
- Possible dieback area.
- Large log across track.
- Rejuvenated vegetation.
- Rejuvenated rainforest.
- No access.
- 64 Reference numbers for report notes.

- Power transmission line
- Watercourse
- Road
- Railway
- Drill hole
- Outcrop
- Lease boundary

402021

6cm

91-3223.

NORTH

LAKE ROSEBERY

ROSEBERY

REHABILITATION PLAN

SHEET 2

PROJECT BURN'S PEAK E.L. 44/88, TRS.

MINERAL RESOURCES DIVISION

NORTH BROKEN HILL PEKO LIMITED

Scale: 1:8000 Survey: Revised:
 Drawn: TGF Date: 1/8/89 Checked: