

appointment were made to seven other applicants. It is intended to fill only 70 of these available posts as 10 have been down-graded to make provision for recruitment of local Africans, who will be departmentally trained as admission to agricultural training institutions in neighbouring territories is no longer possible. No further vacancies exist for posts provided under this scheme. A short refresher course was held for Agricultural Demonstrators at Headquarters.

African extension work is now carried out in all the eastern reserves of the Territory, where steady progress is being maintained. After overcoming the initial difficulties experienced in introducing improved agricultural techniques to the farmers, it is expected that the tempo of future development will be accelerated.

Further field quarters were constructed during the year to house agricultural extension personnel.

13. SCHEME NO. D 3067 and 3067 A - DEVELOPMENT OF MEDICAL SERVICES.

(Compare former D 1037)

Scheme Value .....£271,014

Expenditure inclusive of contribution to 31.12.58 ..... 93,118

Balance .....177,896

Contribution by Bechuanaland Protectorate Government .....£27,037

Tuberculosis / ...



outbreaks of Foot and Mouth disease in neighbouring territories rendered it inadvisable to purchase breeding stock in those areas. A second course for the training of African personnel of this Department was carried out at Ramathlabama during the first 6 months of the year, after which the school was closed to enable the European officer in charge to go on overseas leave which had been long postponed.

Free inoculation campaigns against Quarter Evil and Contagious Abortion were extended during the year to the Mahalapye, Serowe, Tuli Block and Tati areas.

12. SCHEME NO. D 3064 and 3064 A - DEVELOPMENT OF AGRICULTURE.

(Compare former D 679 and 679 A, D 680 and 680 A)

Scheme Value .....£131,969

Expenditure inclusive of contribution to 31.12.58 ..... 57,287

Balance ..... 74,682

Contribution by Bechuanaland Protectorate Government .....£27,306

The two Agricultural Officers' posts were filled as well as the four Agricultural and Live-stock Officers' posts provided under this scheme. One Agricultural and Livestock Officer resigned but was replaced before the end of the year. After an initial period of training at Headquarters this officer will be posted to a district station which has been vacant since August.

Of the available 80 Agricultural Demonstrators' posts, 63 were filled and offers of

appointment / ...

Paul de la

Ha go tloga batho ka tsonei Jerusalem ba ya ka Rome le  
baapostoloi go tloga go phetola e ka nna jela ha go tloga  
Ha ba uthele qhalo, Paul e kolobetsa baditshelwa a ha ba  
rupanwa. Ga kaga kganyo le kganyo fa go tloga baditshelwa.  
ba ~~ba~~ e ding bapeta le baimeedi ba aha baditshelwa

Hu nako e ga ha bapeta ba tloga bafela Pisedira <sup>le Jeanne</sup> ba setse Paul  
B masego - ba munganya batho ba lepatra le <sup>le</sup> P. B, nna ha phetola  
n. a. k. u. f. l. a. b. e. n. e. go <sup>a. b. o. t. a. l. e. c.</sup> a. d. i. r. a. k. g. a. t. h. i. a. c. c. e. s. s. e. s. le tona - ba phetola.  
go khawana Paul ha mo go tloga nna uthele go nna ba nna  
kgobetsa ka nna go phetola ba aha, ba e e pule. Paulo  
a uthele ba nna go nna go nna e e kileng a e phetola Stefanos  
Eile mo nna go nna go nna a ya setse le baimeedi ba  
gona go nna ka phetola ba le baimeedi.

<sup>le Jeanne</sup> Eile uthele setse a le gona le lego go nna go  
Tarese, Paulo a se ka a phetola palo go nna go nna. Eile setse setse  
a gona go nna ba baimeedi nna nna nna e ba  
baimeedi go phetola mo go nna. Nna palo ba nna go nna  
ka lepatra le Jeanne le Antiocha go phetola le go nna nna,  
nna nna go nna le di kileng go nna go nna kileng  
ba gona. Joana <sup>ya go tloga</sup> ba nna nna nna - ba ya Antiocha, nna  
ka ba phetola phetola go nna Antiocha (Syria), nna ba  
nna nna nna nna go nna. Nna ba phetola baditshelwa. Nna  
nna phetola go nna nna nna le ka fa ka nna nna  
baditshelwa ka nna nna nna. *Mo malabing a*

Ke gona fa Paulo le baimeedi le bagogo ba nna go nna Jerusalem  
go nna nna a nna le baimeedi. Nna nna nna ba nna  
ba nna ba nna nna go nna baditshelwa: kileng ba nna  
nna nna nna go nna.

Mo phetola e tloga ya baimeedi, bagogo le baditshelwa  
Petro le Paulo le baimeedi ba nna fa nna ba nna di ba nna  
nna nna nna ba nna nna le nna nna nna e a nna nna  
nna go nna a nna nna nna e a nna nna nna nna ka go  
nna baditshelwa ba nna nna nna ya nna nna go nna, ba  
nna nna nna nna nna nna - ba ba nna nna nna  
ya nna, nna nna le go nna nna nna nna.

- 1. Joana nna nna le phetola nna nna, Syria, Arabia le nna  
e nna nna
- 2. le gona, nna le phetola nna ya nna nna ba nna nna  
nna go nna nna
- 3. le nna nna e e nna nna ke P. B, le nna a nna go nna  
le nna nna nna nna nna nna nna nna
- 4. le go nna nna nna go nna nna nna go nna nna go nna  
nna nna nna nna nna

in equipping the power house and cold room for the Veterinary School since it was considered better to hold these funds over pending the approval of Scheme R. 907 for the establishment of the Veterinary Investigational Laboratory at Ramathlabama. Under Subhead "D", Item 1, a prefabricated office was erected at Werda, extensions were made to the Molepolole Veterinary office and the old post office at Mahalapye was converted into a Veterinary office. The necessary furniture for these new and extended offices was purchased out of Item 2 of the same Subhead and, in addition, certain new equipment was bought for the orderly filing of quota applications to facilitate the smooth flow of cattle to the abattoir.

During the year three vacancies for Veterinary Officers were filled and personnel were recruited for the two additional posts of Stock Inspector which were reserved under Veterinary Estimates and subsequently transferred to D 3047. Two Livestock Officers were promoted to the Senior Livestock Officers' posts which had been similarly reserved in the Estimates and subsequently transferred to D. 3047.

On the Veterinary farm at Ramathlabama additional fencing was carried out, additional agricultural implements were purchased and a limited amount of extensions were made to the existing water reticulation. No progress, however, was made in relation to livestock improvement since the recurring outbreaks / ...



but no suitable applications were received.

The hostel at Francistown European School was completed. Two additional classrooms were completed at the Teacher Training College in Lobatsi. These classrooms accommodate students attending the Primary Higher Teachers' Course which was introduced in 1958.

Approximately £1,000 was spent on improving accommodation at African primary day schools in non-tribal areas.

11. SCHEME NO. D 3047 and 3047 A - DEVELOPMENT OF VETERINARY SERVICES.  
(Compare former D 679, 679A)

Scheme Value .....£230,708

*Man jona a bocha Aka ka yane  
kelewa one a tsele jumo ka yane  
ebony go kecha dilifo ka sekepe  
gogwe tsoas, a tselekepe pele ke  
bakaulo yone ba gogwe ke  
Tselekepe, nune ebele  
a phahae ke juma*

Expenditure inclusive of  
contribution to 31.12.58 ..... 89,642  
Balance ..... 141,066  
Contribution by Bechuanaland  
Protectorate Government .....£39,083

Development progress continued to be hampered, as in 1957, by further outbreaks of Foot and Mouth disease, the control of which engaged most of the activities of the Department during the year.

Under Subhead "A", Item 1 - Vehicles and Equipment - an additional sum of £7,000 was approved for the purchase of six 5-ton vehicles which were essential in order to establish and maintain a 70-mile cordon on the Bechuanaland side of the Molopo following fresh outbreaks of Foot and Mouth disease on the Union side. No progress was made

in / ...

*Ke tsoas a lalo a tselekepe ke kece ke sego yotke, a ba a yone  
mooque sea bauteke, go one se ole nwa thueg se kece goduad  
nwa a tsoas. go nwa tsoas Paed a ya kece ka duao (20 mile) a kepanee  
goce ke bakaulo yone ba ba ke ke sekepe. Jaane ba ya kece kece Mofetene  
Mileti*





a m

*Beafoko a ka on a diveding Paedo/gore a the tholeho ballo  
 go kgobokela de go beloa Stefanee  
 ebi de one a a paledithuocoo, jeseu  
 - 19 -*

the Department and the public. Chemical work has been directed mainly at the analyses of groundwaters in connection with potability problems. Assays of samples of manganese ore have also been carried out.

Work in the drawing office has consisted in the preparation of some 60 maps, plans and diagrams illustrating the results of geologists' fieldwork. A new provisional geological map of the Territory to a scale of 1:1,000,000 was prepared and has been issued with the Annual Geological Survey Report for 1957 at a reduced scale of 1:2,000,000. A Departmental publication, "Records of Boreholes", comprising the details of the first 50 core boreholes drilled in exploration work by the Geological Survey, was bound and issued. The records of the Geological Survey for 1956 are being printed and will be issued early in 1959. A report on the Morapule coalfield area is in preparation.

10. Scheme No. D 3046 and 3046A - Development of Education.

(Compare former D 1045, 1045A to C)

Scheme Value .....	£260,041
Expenditure inclusive of contribution to 31.12.58 .....	<u>117,185</u>
Balance .....	<u><u>142,856</u></u>

Contribution by Bechuanaland Protectorate Government .....£35,408

Vacancies for teachers and for inspectorate staff were widely advertised on several occasions

but / ...

Ra khutalo ya mousa. A Kragara le bone qae fa e se fuka fela 21  
 go tswa Miletu ketepe sa ga Paulo se letile kosa sa leta ka Rodasi  
 le Patara, janna ba palamus, ketepe sa Tuisiyo, go tswa go tswa kosa  
 khupato tswa tswa, le kwa ditlamoana le kwa Kaesarea le kwa  
 Jerusalem. Kwa Jerusalem, eolea seia go dumidisa jakeba janna  
 kwa Jerusalem, go tswa ba tswa ba dumidisi, feretla eolea go tswa  
 gagantsho, go tswa ba tswa ba dumidisi, feretla eolea go tswa  
 tsa go tswa o mudi batho qae ba phiboge Mose le uoladi le phiboge  
 eolea o lekalakanya baditshaba le batho ba tswa ba dumidisi le mkgae ya tswa  
 ✓ (ka mo qolega ka diketane) - batho ba tswa ba dumidisi le mkgae ya tswa  
 ba mo qolega kwa mudi ba mo ketepele qae mudi.  
 ② go tswa a tswa fa mapalamosa a tswa le batho a tswa Miletogantsho  
 ditshelo jwa qae qae le Miletogantsho qae qae - mudi ba mo qolega  
 ka qae tswa qae phiboge o tswa tswa fa e le moqadi tswa  
 bogosi jwa tswa - mudi qae a nang le ditlamoana tswa tswa baroma  
 fime masole a tswa a qae qae, a mo qolega ka diketane sa mo tswa  
 kwa kagae ya bathabani, batho ba ba tswa moqae ba mudi ba qae  
 ① ba sa 'a a tswa (Ditso 21/30-36) mudi eolea Paulo a ketepe moqae  
 moqae qae a tswa qae le batho  
 ya qae moqae o mo qolega kwa go baditshaba  
 baditshaba. Eole a tswa tswa jwa baditshaba batho ba tswa - ba tswa  
 jakeba tswa - ba qae tswa ba qae a a tswa  
 Eole Paulo a tswa go ba tswa qae fa a le moqae kwa kae ba tswa  
 mo maktshong a go mo tswa, mudi ya qae mo mkgae moqae  
 mo mkgae a tswa ditsho tswa bapristi le tswa jakeba go tswa  
 a tswa moqae jwa qae Paulo  
 Eole a tswa moqae tswa tswa ba tswa baditshaba ba tswa ba  
 moqae moqae, mo mkgae ka ba tswa tswa le moqae, ka tswa ba tswa  
 ba tswa ba tswa - jakeba tswa jwa kragara ka tswa. Ka Paulo a  
 tswa mo kagae ya bathabani eole mo mkgae moqae, ja go  
 moqae moqae ja tswa, mo moqae moqae a mo moqae kwa  
 Kaesarea ka bathabani ba le 200, baqae ba dipiti ba le 70, ba tswa  
 moqae ba le 200 = 470 + tswa of tswa. Kaesarea go m. fa tswa

Mosefelo 3 Adol

Eole Paul a tswa Jerusalem kwa tswa a ba a le tswa -  
 a tswa tswa mo mkgae ya tswa a tswa  
 le moqae a a tswa a ditsho, dipiti, dipula  
 ditsho, ditsho, dikgobotsho, moqae, moqae  
 moqae. moqae le moqae, moqae a sa tswa  
 tswa. tswa ya e le tswa, moqae o le tswa  
 moqae o tswa tswa. moqae eole a tswa ka  
 Efeso a tswa fa e le kwa tswa a tswa tswa  
 tswa, e le kwa tswa a tswa moqae le tswa  
 ba qae qae

was in excess of 7,000 g.p.h. over a 72-hour pump test with a drawdown of only 80 feet. Assistance has also been rendered to the cattle route drilling in the central Kalahari area and the Department has been able to prove that in certain areas of the central Kalahari it is possible to tap potable supplies at depth in the Middle Ecca Series sandstones below upper, confined, saline groundwaters, but difficulties in developing these supplies and sealing off the saline waters have not yet been overcome. The Geological Survey also developed a new cattle route in the northern Protectorate from Dukwe Quarantine camp to Shashi Siding. This cattle route is designed to facilitate the movement of cattle from the north-western Protectorate to the line of rail.

During the period under review 124 boreholes were drilled on sites selected by geophysical methods by the Department in various areas in the Territory and, of these, 88 boreholes were successful, representing a success ratio of 71%.

The Geological Survey supervised the core drilling programme which was carried out by the Public Works Department to investigate the foundation rock of the proposed Mahalapye dam site. Pressure tests were carried out and these show that grouting of the foundation rock will be necessary prior to the construction of any dam on this site.

The laboratory has continued to provide chemical and petrological services for members of

the / ...

Enile a hana kwa mokome (Jerusalem) a fithel.  
 o nyananika batho ba ba hukung madimang wa  
 Paulatose (Fero. Fumbi) jachha e le hlwalo.  
 Bapula ba hana ntlheng, hobela tsa defobela  
 Banyae ba bone e le ba ba hukung ba nyanana nco  
 mesepeleng ya qaqae, Kqobsa ba ba baqanetsang  
 nac - Kqobsa a ba nankga nunc hane ba kopana  
 nac kwa Jerusalem, ba elisa go ipusitosebra  
 ka go mo seba Kqobsa go ncholong  
 Bapula ba efeso ba e faapanyeng le bone  
 qaqabi ka puo ko ba nyanana nunc ba  
 kaadela go mo qaqacibhla

Tha kaasana o apic mo Kqobselang dimyaga di se  
 judi - a sekisnani fa pele go ntlhale Felix nunc  
 di fa a thokelo go bana molalo mo go euc, a nuncetse  
 mo Kqobselang go nuncetse Bapula.

Enile Felix a nuncetse qoselo gabha Jeshu qosena  
 molandi wa judese, le euc a nuncetse thokelo ya go Paul  
 nunc a mo thokelo molalo. Bapula ba Jerusalem ba baqae  
 Paulo ntlhale e le nuncetse e ba paliswang ka go e supela  
 nunc Paulo a Kqobselang puo fa puo ya bone e le ya  
 pabebso. <sup>ka go akabala qaqae Jeshu</sup> nunc Paulo a nuncetse go Kqob  
 megabse wa Kqobselang mo thokelo a hana nyanana o thokelo

① Bapula baqae "o letshupeng, o sekukuthi na Bapula le mo  
 thokelo jathel", ebile o thokelo ya letshupeng ya tathoko ba  
 e hana baithokelodi ba thupela ba loja gore e ba nuncetse  
 fa e go nuncetse

Go le Hlalo wa Bapula ga kea o letshupeng  
 kafa e le thupela tafa e le kaasane]

Paulo a thathokelodi ntlheng leqola batho wa qaqae, qaqae ya qaqae  
 ya bathoedi, thathokelo ya qaqae, nuncetse ya qaqae mo Bapula  
 nuncetse e hana nyanana, o e hana nyanana, le gore Kreslo to Hlalo  
 ya o bathoedi ntlheng ka beqosela. Jeshu a thathokelo go bone  
 Paulo molalo nunc a mo nyanana nuncetse jachha e le thokelo  
 go thathokelodi fa pele go kaasane

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*1. Erila a Sena go beci a Sena Kasasara go dshusara fa gile go Felix  
2. Erila P. a araba beci a Babala fa a ise d gandi be ope la gaci lobi de o  
be pakudiana, ke kuto ya go bofo ya Sena*

by contract in 63 boreholes of which 42 were successful. Contract drilling began in the Bamangwato Reserve in February and by the end of the year a total of 10,021 feet had been completed in 34 boreholes of which 28 were successful, representing a success ratio for this area of 82%. Drilling is also in progress in the Bakgatla Reserve where 35 boreholes have been completed of which 20 were successful. Since the start of the contract drilling programme in September, 1956, a total of 55,451 feet of drilling has been completed in 203 boreholes of which 128 have been successful. This has resulted in a total, tested, potential yield of 99,875 g.p.h.

Surveys in connection with underground water development schemes have been undertaken in Ngamiland and in the southern Crown Lands. In Ngamiland, test drilling under the direction of the Department was carried out in a proposed development area south-west of Lake Ngami and contract drilling is in progress in the marginal Hainaveld area following site selection by the Geological Survey. The Department has also undertaken siting for the Boring Branch of the Public Works Department wherever possible and particular attention has been paid recently to work in connection with the Lobatsi township water supply. The Geological Survey is investigating new groundwater areas lying some 3 to 5 miles to the north-east of Lobatsi and has been successful in locating several high-yielding boreholes. The highest yield obtained in this area was / ...

Paulo a nka... ke magolegoa a mangae ba ueloe  
 Julius, lea palama pekepe se ya bokone. Da fetse  
 Sidona <sup>Da kanya ka</sup> ke Kiperi ba fetla kwa nyra. Koo ba pogae  
 pekepe se sengwe se a Italia, ba kanea malatana.  
 mantsi mo kollateng neme ba tseba kwa <sup>timido</sup> Andis  
 le Kereta le palama lea <sup>lela</sup> thlathetso le pho e e leda  
 ba fetla kwa <sup>Demance</sup> fela <sup>Dinthe</sup> <sup>Enile</sup> Paulo a yadela nolaudi, <sup>ke magolegoa</sup> ke magolegoa  
 thotho neme ba makara le pho e e bokhoko ya  
 Kgwadibane pekepe kwa Kanda <sup>mo masong ka</sup> ba tshela thoto  
 ya pekepe mo leswatse go se unolola, <sup>mo</sup> ba thlathetso  
~~mo mo magolegoa a malatani~~ lea kanea pho e  
 tshamane ka pekepe - neme Paulo a ba nametso  
 ka goe go tshama e mo pebedise goe ga go ketla  
 go neme ope. Enile neme go ditekile di le pedi  
 Paulo ba neme lele 276, pekepe ya <sup>ke neme</sup> tshama ke neme  
 le tshama, neme ketla ba tshela - <sup>ba neme</sup> ba go neme  
 lea kanea ke go palama dipatka ke pekepe se se  
 thlathetso, neme ba tshela kwa <sup>lela</sup> tshela - <sup>ke magolegoa</sup> ke magolegoa

28 Paulo ba thlathetso ba ba dula ka bokone go ba tshela  
 mo phoeng le tshama. Enile Paulo a neme go tshela, yane a kanea  
 dikgale a tshama ke neme e tshama mo go tshama, neme kanea  
 ba thlathetso lea gakegale a ba tshama tshama le goe a ba tshama  
 ke Paulo magolegoa se tshama ke neme e a tshama, neme Paulo a neme  
 alafa, a ba fedisa ba le ba tshama ba tshama ba tshama  
 Enile neme go ga ditekile di le thamo lea tshama ke pekepe, sengwe  
 go ga tshama le Regumia le Tshama. Koo ba pagolegoa pekepe neme  
 ba ya Roma ke dula, ya se gaele le neme lea tshama go kgakha-  
 tshama ke badumedi ba Roma. Kwa Roma Paulo ga ake a fetla  
 a tshama mo tshama ya Kgwadibane. O tshama go neme a le epe le tshama  
 tshama mo mo dula, <sup>neme a tshama</sup> ke neme ke neme - <sup>ke magolegoa</sup> ke magolegoa  
 tshama tshama ke tshama le ba tshama, ke magolegoa ke magolegoa  
 tshama neme a tshama ke neme ke neme. Sengwe ke tshama, neme  
 tshama mo tshama go dula - neme Paulo a tshama ke neme  
 go tshama. Paulo o tshama ditekile di le pedi mo tshama e e  
 tshama neme a tshama ke neme ke neme go neme thlathetso ke neme  
 tshama, tshama, tshama, tshama - tshama ke neme, tshama ke neme  
 tshama tshama neme ke neme ke neme, tshama ke neme ke neme ke neme

friable sandstones of the Polo Ground Quartzite (Timeball Hill Stage, Pretoria Series), which constitute the ore horizon, below depths of 60 to 70 feet. The company were working the occurrence by opencast and quarrying methods but have recently had to suspend operations there in view of the low average grade of the ore, combined with its high silica content, and the fact that once the overburden of shales exceeds some 10 to 15 feet in thickness stripping of this shale renders mining an uneconomic proposition.

Systematic quarter-degree square geological mapping has been carried out in the Palapye area and in the area south-west and west of Shoshong in the Bamangwato Reserve. The mapping of the Molepolole quarter-degree sheet in the Bakwena Reserve was also completed. Reconnaissance surveys have been undertaken in the southern Crown Lands. During the course of water development work in southern Ngamiland attention was paid to the geology of the Mabeleapudi-Kwebe Hills area and additional information was gained concerning the structure and interrelationships of the various formations present in this area.

The Geological Survey has continued to undertake site selection for and field control of the Territorial contract drilling programme in the eastern Protectorate. The water development scheme in the Bangwaketse Reserve was completed in June. In this reserve 15,995 feet of drilling was completed

by / ...

Enle u-omgo ga duyoq, hi pedi ka kqaleq, Paulo a ~~...~~  
me ga ~~...~~ ga fikheloe. a pana udalo ope - ~~...~~ a qololoa  
pana a dymolola go ekela diphetla go ~~...~~ ka qaqwe kwa ~~...~~  
a ba a ya ~~...~~ le qone ka mallo e ha a kwala dikwalo  
go Tumbokile Tito

63  
Filipi, Kolose, Efeso, Torosa  
Roma, Filipi, Kela, Agai, Efeso  
makedonia, Filipi, Korinta, Kreta  
Epe, Mulo, Troas, Korinthi, Mefolis  
kwa Korinta

Kwa le kwa go kaseleha le go kqothabso  
Enle a ba nta a nkhule me ntaing a a ~~...~~  
nnaq le baetsamile jwa Bakrest - methe wa Roma o lithe  
mea gethe e khubeloe ke Bakrest (Lth) Totu ga me a me  
o khubeloe ke Naro - Kausara ya Bakroma go o me a le  
bofalele le bokhogo jwa beheuo

Paulo a lathelela gope me kqaleq, ka mallo e o  
kwa dila fikhelo jwa bebedi go Tumbokile, me o kopanyo  
supa tumele ya qaqwe, go nkhulaga me me o kopanyo  
go me lesethi kobanyana go me musa me lesethi jwa  
meiq, le dikwalo le dipanepo gope a ite ka go kwala  
le gope a le go me khola, ka a be me bodulung jwa bogolo  
le khubafaleng ya go khulaga nta le go supa tula

Go boale dithe gope Paulo o me a sekisua me kqaleq  
ya go Naro me a akhelelewa leso. A qaqwelela kwa ntle  
ga ntle a qaqwelela ke matlakala, me gope ke a  
kqaleqo khaqo ka pelepe a me mele wa kqaleqo le mowa  
wa dila. Mowa le dikho tsa go Paulo, ka me a tula  
di tula di nta, di qanotse di kqothabso di nkhulaga  
ka tula qaqwe le qaqwe kwa leme ya go kreste  
le nkhulaga gope.

66-68 AD  
o o pasweng  
Fedi ya malang  
puta  
di tula di nta, di qanotse di kqothabso di nkhulaga  
ka tula qaqwe le qaqwe kwa leme ya go kreste  
le nkhulaga gope.

Go aka a bapolewa jwaka jwa kreste le jwaka jwa papale me e le  
ya basung jwa le makgato ka a bang barone. Eme e le pele  
ya dikhona le boyaqo. Ka Paulo me e le magadi wa Roma  
e le mowa ka kago, o me a bolawa ka go kqaleqo khaqo  
jwaka barone ba me ba bolawa

Ka nta wa Roma, me e me e ke e ka jwa go bolawa  
me e detoto ya qaqwe me nta ya ga qabo me e gope  
dimoa jalo me go Paulo le me go jwa, jwa jwaka go me ga  
dimoa me go jwa kreste, me bo barone ba fikhwa  
ke dikwala tsa boe



and the quality of this coal is normally better and more consistent than that of the coals intersected in the upper zone. Calorific values of this lower zone are between 11 and 11.5 lbs/lb and the ash content varies from 10 to 15%. The Department's drilling programme has proved that both the thickness and quality of these coals is consistent over relatively wide areas and in the small area investigated to date a tonnage of the order of 25,000,000 tons has been proved in the lower coal zone alone. The Department is currently engaged on shaft sinking to obtain bulk samples of the coal from both these horizons for analysis.

Core drilling was also carried out in the investigation of two asbestos occurrences; a chrysotile fibre occurrence at Naka la Phala, south of Serowe in the Bamangwato Reserve, and on an occurrence of sicilified crocidolite asbestos in the lower Griquatown banded ironstones, north of the Molopo River in the southern Crown Lands. The results of the drilling programmes in both these areas were disappointing and the geological investigations on these occurrences have been suspended.

The Geological Survey has been assisting the company working the Ramoutsa manganese mine by undertaking a core drilling programme to prove the existence and tenor of the orebody at depth. Ten relatively shallow core boreholes were drilled in the area and these boreholes proved that only very minor amounts of manganese ore were present in the

friable / ...

*Revised*  
*Enacted 1st*  
*Resubmitted*  
*Galabius*  
*Colson*  
*Ephraim*  
*Julius*  
*Philipp*  
*Timothy*  
*Tibis*

Dikwalo ha ga Paulo

Dikwalo ha ga Paulo ke di neo Bebeleng di 13  
 ke Baroma, Balkonata 1 le 2, Galatia, Kaefesia, Bafilipi, Baklona  
Boathalouca 1 le 2, Timotho, 1 le 2, Tito, Filemona . . .  
 Baklona ha dikwalo ha di boetsho joa Di lo. Pauline  
 Seogga ke go dimelasego go ke ka ntle ga dikwalo ha  
 di 13 ha Paulo = kwadilo ha dimogae di ka nna makgeto  
 kgoba matamata, ha di latekghele; [Kwa yona Bult II 95  
 dikwalo ha di 13 di kwadilo dikereke, le batho - mo  
 tikelagae e e tswang Roma go tswa ka Ana mo. Di  
 kwadilo mo dimogae di le 16 52 AD - 68 AD. - mo  
 Paulo e di kwadilo dimogae di le 16 a tswa go Khabolong  
 Di mo a le dimogae di 16 fa a kwala dikwalo lo  
ntle, a le 63 a kwala di bofelo. Di Khomogere  
joa Thalouca 1 le 2 / Balkonata 1 le 2 / Bagalatia, Baroma,  
Bafilipi, Kaefesia, Baklona, Filemona / Timotho I, Tito I le  
Timotho II / dimogae 67 le 68 ka ntle ya kgole mo kwadilo  
le kgole ya bofelo

ka dimogae 52 le 53  
mo nakong ya Coruthi  
moefelo wa bofelo  
 o kwadilo dikwalo lo  
 go kgole mo dimogae  
 go ha pupetso kwadilo le  
 teralo sa goqae go fa  
 galekela go ha se boe  
 moa nekgae ya Sehaka  
 go ba dimogae bofelo  
 go ba go tswa mo dikwalo  
Boamane joa Togo ya Roma  
le ya baroma

57 le 58  
ka ntle ya  
moefelo wa baroma  
Ephesia  
 go kwadilo mo ntle  
 ka gofela ga Kereke  
 go pupetso go teralo  
 ga lo kake joa Thalouca  
 mo bofelo go le goae  
 folelo e ha ka kwadilo  
 7

63 ka ntle ya kgole ya  
ntle kwa Roma

- Thalouca: Balkonata, Bapota, Bafilipi, baroma → kwadilo at Coruthi 52-53  
dimogae 16 mo of his stay
- Copulona: Balkonata, Bafilipi, baroma → I worder from Ereso 57  
katola → II .. .. Macedonia Philippi 01 57  
Thalouca
- Galatia: North & South Gauls & Jews → 57 or later Macedonia
- Roma: to Jewish Jews freedom of law → Coruthi AD 58 day 30 of June  
to distinguish of
- Adlesia: Gentile Jews persecution
- Philemon: from Rome day 1st in presence of 61-63
- Ephesia: overland letter to kwadilo in North Thalouca → also matter of the
- Philippi: 1st place to receive message and picture 52, thanks for kudo

20 feet in thickness, but there tends to be considerable lateral variation both in the quality of the coal and the thickness of the 'main seam' which thins out in an easterly direction towards sub-outcrop. The better quality coals have calorific values ranging from 11.5 to 11.9 lbs/lb and ash contents of 12.6 to 14.4%. Following the work of the Department it is estimated that in an area of some 9 square miles, down to a depth of 450 feet, the total reserves of coal present are of the order of 150,000,000 tons with calorific values from 11 to 12 lbs/lb and an average calorific value of 11.34 lbs/lb. A report on this work is in the course of preparation and will be issued early in 1959.

*Justification: Shunise*  
*Purpose: Hekopiso Shepafelo*  
*Fault: Tugela*  
*Geological Indications: Kpela*  
*Literature: Kpela*

Departmental core drilling and geological mapping have been carried out in the investigation of coal horizons occurring in the Middle Ecca Series sandstones in the Mamabula area in the southern Bamangwato Reserve. Investigations have been concentrated in the area lying immediately east of Mamabula siding and the programme has shown that two very persistent coal horizons are present, separated by some 80 feet of shale and sandstone. The upper coal usually has a thickness of 50 to 60 feet with a persistent, relatively good quality coal seam of some 17 feet in thickness at the base. Analyses of this coal show that it has calorific values of 10 to 11 lbs/lb with ash contents of 15 to 20%. The lower coal zone carries a 7-foot seam and / ...

Toro ya ga Paul

O budiwa i Mosaoschoti jona Badielaba  
Duo ya qaqae e kgolo e ne e le go supa qone khathe go a khathe  
Bapela fela. O hathe bahe tse tse le ba saena bapela  
de qae bapela go se muno e e Mmonelisoa, na muno  
pajeda de nekgoa ya pajeda. Ke muno a mola e e  
phimoleng pajeda

Bapostoloi de bakraki ba li badii bauc ba qapela  
qone pajeda e mone qone kgone ya bapela - Badielaba  
ba acceplog bapela ba diraghe phapela ya pajeda fela  
ba pupuase -

Paulo o pupule qone Goloko e bane ka Tumele, eene ka  
diraghe ya mola. Ke yone kgone e kgolo e Paul o  
lebagane le yone. Karabe ya qaqae mo go badielaba  
bakraki pa se pajeda ke Mkgone ya bakraki o qolela badielaba  
mo jone ya mola ke nekgoa ya pajeda

Keruti mone o mone, mone mo dino tse dino, le mone  
ke mone de bapela, le phapela. mone mo mone  
Bapela, badielaba, Badielaba, Badielaba - mone  
mo bapela le mone fela le bapela le mone  
mo qone ke Paulo a badielaba qone ka mone  
ya mone mo badielaba mo diraghe fela di 18 tse e  
di supeng qone 52-53 tse. A mone le bapela le badielaba, a  
pela mone ya dino mone - a badielaba qone ka go  
le badielaba ke bapela - mone a badielaba - qone e  
Badielaba I le II, Badielaba, kgone le Badielaba  
Badielaba e le Badielaba kgone ka badielaba le badielaba  
ba ba saena tse e kgolo.

Ene a saena go ya Epheso a kwalela badielaba le mone 1. 57 tse  
a ba saena mone le badielaba, badielaba, a kwalela  
Badielaba II a le mone Mone 57. Phuphi o badielaba

Bijuda ba bane ba badielaba mo bakraki, ba ke ba saena le  
dino tse ke Paulo o di badielaba le mone go badielaba ba ba  
mone kgone ke badielaba, qone ba saena ba ba diraghe  
mone mo go mone. Ba saena Paulo ba kgone tse ya qaqae ya go  
ke badielaba Badielaba <sup>a ba</sup> ba saena

1. Badielaba ke badielaba mo bakraki go ba ke ba saena mo mone  
e mone go ya pajeda
2. Badielaba ke badielaba mo bakraki go e ke ba ya badielaba mo  
mone mo ba saena, ba saena M.V. 36
3. Yone le badielaba ke badielaba badielaba tse tse

been extended to cover the whole of the Bangwaketse Tribal Territory. Following the award of this grant the company undertook detailed exploration in all areas underlain by promising geological formations, but the results of this programme are not yet known. In the Bamalete Reserve the Ramoutsa mine had been closed down by the end of 1958, but the company located a further high grade manganese ore deposit on the north-western slopes of Ootsi Mountain, in the south-western corner of the Reserve, and active exploitation was in progress at this occurrence by the end of the year. The Marlime Chrysotile Corporation increased the production of chrysotile fibre from the Moshaneng asbestos mine in the Bangwaketse Reserve to more than 220 tons a month and the production of fibre during 1958 was 660 short tons more than during 1957.

The Department has been undertaking a detailed investigation of the Morapule coalfield area, 6 miles west of the railway line at Palapye, and by February a total of 5,128 feet of NX size core drilling had been completed in 15 boreholes concentrated in an area of 8 to 10 square miles in the central portion of this coalfield. This contract drilling programme concludes the investigations which have been undertaken by the Department in this area. The results of this programme and of earlier work carried out by the Department have proved that there is a persistent carbonaceous horizon throughout the area at the base of the Upper Ecca Series shales, which average 15 to 20 feet / ...

Baapostolo Q. Mark 3/14 Muea khada tale ke gose barua nne  
 ka matlopho ea bauee bal. C e ba ithobethee a ba naya hoo ye  
 go thosela kerek ya gagae le go xosa mafoko a gagae. Ene e le batho  
 ba le 12. Hahona a ba naya dilothole tsa pulao, mme ka go tse  
 khelisa motheo a e bahlake a ba naya khaki ya go laola kerek  
 ya gagae le go retha lefathe jetho. Ene a rena go ithobole  
 a ba thula monono de qoqaqoqa ~~ya go dea dikgatlhama~~  
 ke batho ba ba bongwey <sup>ba ba bangwey</sup> ~~ya go dea~~ <sup>ke go</sup> ka bupa ka baegpe ya gagae

2. bikhaditsoey maeae a e ke ene J E
3. budulhsoey motha e o b go ba puti
4. ba naneey khata ya go dea dikgatlhama

① Petero ye pele e ne a bulela ~~bauee~~ ene e le monona jona. Mmagaepo go a  
 mmakwe gope mo Babelong. O ne a na le mononane gotho Hadrar. Bane  
 ba ayele pele koo Babilonia fa lewatheng ya Galilea, e le katlele  
 ba dithabe! Ba ne ba nathale Dilueale tse di Bithabele Thokonele e  
 kgolozela ~~taja~~ ba ne tsa de bantegi tsa bapalo ba dikwalo le melao  
 Bagaliba ene e le batho tsa ba mabaga - ba ba bonako tsa ba  
 ditlhalha ka ipue le mogipolo le mo - mme Petero e ne e le  
 moqaliba tsa e. O ne a ka nna monona wa go fa monona  
 a kopana mo, a nyetse, a le ntlho kwa Kapernaum. |  
 Jesu o munitile a khwisa ditlhalpe go mo Pala <sup>de gona mothoa batho</sup> ~~ke e mo~~  
 a deoa fto, a tswa mothapelo le molomo e a baapostolo  
 Ene le Johane le Jakob, barua Zebedia ba ne ba atumeditsoe khaki  
 ke Jesu jakoa babakila mmele kwa thabeng e e kwa koto  
 le jaaka a le moe khathafaleng kwa Tshabane | Fhateta  
 tefae ne e ikgagela ka go ipelata loralo lora gagae, o ne e e  
 atafela Jesu fa a le mo dialeng ka babela, mme a mo tshabala  
 mme o ne a thalagantlala kwa pupung mo moseng wa tsoo 're  
 mme. Petero ke ene wa baledi ya Hana o mo ikhathafaleng e  
 tsa go gula. Ke ene ya gape mme o mo kgathafaleng ka mmele

a goe <sup>Otho dikwano tsa me ja ruvi o ntlhatl</sup> ~~morago go tsoo ya go Jesu, ke ene wa ntlha ya o rena jona~~ <sup>le baapostolo, barantani</sup>  
<sup>e ne a le qone kwa thabeng oja thabane fa Jesu a thalagela digodwey</sup>  
 O ne a eke ka duae ka lepatlha ya Paulokore <sup>a phatole go ruda protho</sup>  
 Petero <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup>  
 leina jii duae jia duae, ga pala ja Petero jila - Espre ke gore tefika |  
 A thalagela mo dikgatlhama ga mme ka ntlha ya go rena Jesu ya o thalagela  
 mme a se ka a tsa se kgoba a kgamisa fa Paul, le bapostolo, ba  
 morago o ile go rena kwa penanone, ya ne a tala Jerudalen a kopana  
 le Paul a rena go thabolega. O dulegepe go ya go rena kwa koda le jona  
 a thalagela Komele - a bulela Badihaba dikhwano tsa Bokerebe.  
 Morago o thalagela mo kgatlhama ya gape ke Hrod Apphria ii ka ntlha  
 a go mo kgatla thabo <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~ <sup>ya mo</sup> ~~ya mo~~  
 a go mo kgatla thabo jakeba, mme motheo wa mo thabane

Junior Service. All Staff Nurse posts have been filled but there are still posts vacant for 2 Health Assistants, 6 Dispensers, 1 Male Nurse, 3 Cooks, 1 Launderer and 2 General Duty Assistants. These are likely to be filled when the new Health Centres are completed.

14. SCHME NO. D 3185 - TOPOGRAPHICAL SURVLY.

(Compare former D 1180, 1180 A to B)

Scheme Value .....	£ 8,000
Expenditure to 31.12.58 .....	<u>7,596</u>
Balance .....	<u>404</u>

This scheme is controlled by the Directorate of Colonial Surveys, and no other details are available.

15. SCHME NO. D 3376 - EXTENSION OF VETERINARY SERVICES.

Scheme Value .....	£ 5,750
Expenditure to 31.12.58 .....	<u>1,488</u>
Balance .....	<u>4,262</u>

A start was made on bricking-up the existing Dutch barn at Ramathlabama to provide a farm building for the accommodation of implements, fodder and stock.

When completed, this building will be a useful instructional centre for Veterinary students attending the school, since it is intended that they shall be responsible for the general welfare of animals in the building, milking, the sterilization of milking implements, the feeding of  
stock / ...





to 31st March, 1960. During this period the local contribution by the Bechuanaland Protectorate Government will be at the rate of 50% of the recurrent expenditure.

Emphasis has continued to be placed on geological and geo-physical work in connection with the 5-year underground water development scheme which is financed by Schemes D 2639 and D 2639 A and B. In addition, work has been undertaken for water development schemes in areas lying outside the scope of this major programme in the eastern Protectorate. The Geological Survey is also undertaking site selection for all Departmental drilling machines and it has been decided that control of the activities of the Boring Branch, which at present falls under the Public Works Department, will be taken over by the Geological Survey Department from the 1st April, 1959.

Regional reconnaissance mapping was continued and detailed investigations of known mineral occurrences have been carried out. Assistance has been rendered to operating mines and the Department has continued to foster the interest shown by various mining organisations in the potential mineral resources of the Territory. The two manganese mines which were opened in the Bangwaketse and Bamalete Reserves during the last quarter of 1957 continued to export manganese ore in spite of a slump in price. The Crown Grant awarded to the Marlime Chrysotile Corporation for the right to prospect for and mine manganese in a limited area of the Reserve has now

been / ...

Jakoboa mogoba jithant baroa. Zebedia le <sup>le ene ene do mothegeon dikhosi Galile</sup> ~~le ene ene do mothegeon dikhosi Galile~~  
 wa baroa pi Jesu <sup>Ente le haka le jithant baroa kabakelo ya ga Jesu</sup> ~~Ente le haka le jithant baroa kabakelo ya ga Jesu~~  
 Palswe maabane o ne a <sup>le kwa khubafaleng ya ga Jesu</sup> ~~le kwa khubafaleng ya ga Jesu~~  
 kwa pale mo boapostoleng jwa gagwe, ne mothegeon wa baroa go dula  
 wa a re ga a tsho pa o pa. lefany <sup>mothegeon</sup> a re Ba Maa nwa penelelo  
 pane, shong go bolawa ke ba ga baroa. Hume ga nwa jalo  
 Evile ka nwa ga re. Jakoboa o kgadlwa khogo ke kgoswe  
 Hrod Agrifhia ka nwa ga re 44. - a le ene moapostole nwa ukho  
 go e <sup>mothegeon</sup> mothegeon  
 go o na le bo Jakoboa ba le ba ne ba ba mothegeon mo Baroban  
 shong Jakoboa mogoba jithant baroa Zebedia ka re boang ka baroa  
 Jakoboa mothegeon othegeon le ene moapostole. <sup>le ene mothegeon</sup>  
 Jakoboa jithant baroa <sup>akwa mothegeon wa dipulaweng ke kgoswe</sup>  
 Jakoboa mothegeon jithant baroa. Ke ene go Jesu o mo thegeon  
 a jithant baroa, a thegeon a ba a dula Baroban ya jithant baroa  
 (ke ene o kgadlwa lethegeon jithant baroa ga Jakoboa mo Baroban  
 a nwa mothegeon mo thegeon jithant baroa go thegeon le go thegeon  
 mothegeon o thegeon mo thegeon jithant baroa jithant baroa

Andrea ke ene ene e le mothegeon wa Baroban, ka a le mothegeon Petero  
 o ne a le mothegeon wa Baroban jithant baroa jithant baroa, mothegeon  
 othegeon a thegeon jithant baroa a re ke ene mothegeon ya mothegeon  
 a jithant baroa mothegeon, mothegeon a dula go re ke mothegeon jithant baroa  
 o thegeon mo thegeon a jithant baroa mothegeon Petero ke ene go ene  
 ke ene o thegeon jithant baroa ba ba ne ba a thegeon go thegeon le  
 Jesu (mothegeon 22). Ke ene o thegeon jithant baroa jithant baroa  
 o thegeon 5000 ka thegeon. Ke mothegeon wa baroban jithant baroa mothegeon  
 mothegeon wa baroban o ka thegeon Antere - a thegeon kwa thegeon ya thegeon

Nathanael ke go mothegeon wa mothegeon. Ene e le mothegeon wa Galile  
 othegeon ke ene go thegeon o thegeon ka thegeon jithant baroa mothegeon  
 ke ene go ene a re ga go ka ke thegeon jithant baroa mothegeon  
 kwa Nazareth mothegeon Jesu a mothegeon mothegeon go o thegeon  
 thegeon jithant baroa (mothegeon 47-48) o ne a le mothegeon jithant baroa  
 o le thegeon jithant baroa jithant baroa jithant baroa a thegeon go thegeon

Mathew, ene e le mothegeon kwa thegeon. Evile thegeon jithant baroa thegeon  
 mo thegeon a jithant baroa le thegeon mothegeon a mo thegeon jithant baroa  
 mothegeon a thegeon a mo thegeon mothegeon, mothegeon mothegeon mothegeon  
 go thegeon mo thegeon jithant baroa ka thegeon jithant baroa mothegeon  
 a thegeon jithant baroa jithant baroa. A thegeon mothegeon o thegeon, a thegeon thegeon  
 jithant baroa thegeon mothegeon. Ke ene mothegeon wa thegeon jithant baroa  
 ka thegeon jithant baroa. Ke ene mothegeon wa thegeon jithant baroa jithant baroa  
 ka thegeon jithant baroa. Ke ene mothegeon wa thegeon jithant baroa jithant baroa

of his drilling rigs, leaving six in service. This measure was considered imperative in order not to hold him up in view of certain difficulties regarding selection of sites in the Bamangwato Reserve, and the small number of sites remaining in advance of the contractor's drilling rigs occasioned by alterations in the original programme.

Government-operated rigs have given a very good account of themselves during the year, although this would not appear so when comparing the results of Government drilling with contract drilling in the table below. When it is realised that the Senior Driller is engaged full time on checking the work of the major contractor, and one heavy capacity rig has been engaged for most of the year on essential exploratory work at Beritse Pan, and a second rig has been operating in the notoriously dry and difficult area surrounding Khuis in the Southern Kgalagadi, the results are very satisfactory.

The following is a resume of the drilling results for the period 1st January to 31st December, 1958:-

LOCALITY OF HOLES DRILLED OR PURPOSE	NO. OF HOLES		TOTAL FOOTAGE DRILLED	YIELD IN G.P.H.
	SUCCESSFUL	BLANK		
<u>GOVERNMENT DRILLING</u>				
Batawana Reserve	5	4	1,525	3,390
Bakgatla Reserve	3	1	1,143	735
Bakwena Reserve	2	-	617	1,000
Crown Lands, Kgalagadi	4	4	2,695	1,950
Government & Veterinary Services	18	7	7,646	22,509
Tati African Reserve	1	-	57	540
<b>TOTALS</b>	<b>33</b>	<b>16</b>	<b>13,683</b>	<b>30,124</b>

N.B. Footage of productive bores: 8109

ya o bolela... O a kwalitso bakruti ba bapula

7. Jilho ke yo monqoso sa baapostoloi. Jaaka Peter, Andrew, Jakoboa le...  
le ene e le monqosi...  
ke ene ya...  
a a fa 5000 dip a re di ka ba thakela kgakage. Ke ene  
yo o monqosang balotika ka ba ne ba rata go bwa le koretse  
abile ke ene yo o yuleng Morena, te dufete Karal (juo 14/8-9)  
ya go tswa mosebete ya gagae folelo ya se o qerile ka  
feroga, nane ya re monqo a bolalwa kwa Hieropolosi

8. Thomase ke yo monqoso sa baapostoloi, kenna se lequoe ja gagae...  
ke didimane - ke goe lewele...  
mo dikhafetse sa baapostoloi o aba a uthe a fatagantse  
fela le mabon mabon Alfoa le Jakoboa motona Alfoa. Nane  
ka mo ethe e ne e le motona mabon ke goe mabon, le  
jakoba le Thomase e le bana ba mabon.  
ke ene yo epe Jesu a re o ya baka kwa loshang kwa go  
kago a re ja re ang goe re le re dwe nane  
ke ene gape yo o rekeang Jesu o Morena, ga re ibi kwa o yang  
goue, nane tala re ka e the yang juo 14  
Thomase o ne a seo go Jesu a khafetse baapostoloi ba bapula  
a Jesu go tula, nane a gae bala folelo ya o tula go Morena  
go fithela Jesu a mo khafetse dutho tsa dimapo

9. Jakoboa ke monqosoloi yo o mabon mabon, a a ka thakanyang, thapo  
kenna se lequoe ja gagae ke Thomase, nane abile gape ke ene  
gagae o bapula Judas motona Jakoboa -  
nane kanna go juda yo monqoso yo o ne a le monqoso Jesu  
nane legae e a se monqosoloi.  
O khafetse ka go bota Jesu are ke go reang fa o ka yonatha uo  
go rona fela, nane eang mo baling bobae? juo 14

10. Jakoba motona Alfoa ke yo monqoso yo o ka netelelang baqwe  
Jaaka jaaka go dipulase fa godu e ethe ene le Thomase le  
Mathew e ne e le bana ba mabon  
Bo Jakoboa bararo mo Testamenteang e nana. O Jakoboa motona Alfoa thapota  
a Jakoboa monqoso pitane - barua lebed. o bolalwa ke krod thapota  
3 Jakoboa motona Jesu yo o kwadibang kenna ya gagae Jakoboa kwa bapula  
mo Testamenteang e nana. O ne a se mo apostoloi. O khafetse monqoso  
Jesu a Jesu go tula a ba o mo khafetse, nane a tala a ba  
a moa nqwe ya dipulase ka koretse a ba a nne bitho ya  
Jesalawa. Jesu o bolalwa ka nana ya tando ka ba  
a khafetse. Ke nane

present resources to import any materials either in the form of cement, bitumen for stabilisation, or naturally occurring foundation material other than decomposed limestone.

Two low-level reinforced concrete bridges were completed during the year under review. They were the Suka bridge giving access to Baines Drift and the farming community there, and the Inchwe Bridge, Francistown, giving direct access to the Monarch Mine and the many farms located between the Tati and Inchwe Rivers.

6. SCHHEME NO. D 2639, 2639A and 2639B - DEVELOPMENT OF UNDERGROUND WATER SUPPLIES.

(Compare former D 678, 678A)

Scheme Value .....	592,978	£
Expenditure inclusive contribution to 31.12.58 .....	<u>359,820</u>	
Balance .....	<u>233,158</u>	

Contribution by Bechuanaland Protectorate Government ..... £56,442

The scheme proceeded satisfactorily throughout the year. The delays caused in the previous year have been overcome, and the two modified Leyland Albions have been delivered and are proving most suitable for towing the heavy capacity drilling rigs under the arduous desert conditions.

The drilling contractor continued to make satisfactory progress during the year. The overall progress required under the terms of the contract was maintained. By agreement between the parties concerned, the contractor in early December withdrew two

of / ...

1. Jakoba gwiraqac juda kqotzi febeas Madro. he ene e ne e se moafatoloi - tota ene o unakura fela ka den a ja morawae

2. Simon wa thuzelba. ke moafatoloi go epile a de a dateli Jean go una moafatoloi a bo e de tokelolap qaf lesonco ja Kapida babe ne ba motaqaqe go kqobera li go, seyo fuso ya Rouca neo motafay soa Bajuda

3. Judas sekanotha ke moafatoloi go o wazeng mala ka go ota Jean. Baafatoloi bokke e ne e de bawna ba halilea fa e de ene fela - ene e ne e de moaqi soa juda ke ene ene e de motshwasei kqetse ya madi a baafatoloi mox a le pelo tokelha Erile a fena go eka moxica aba e fela neo netisa ka depafellama di le 30 a ipolaa

4. Hwa ukle ga baafatoloi ka ba 12 ka ba thoptshoony ke Jean qona le ba baqose ba le barao

5. Matthias go o thoptshoony ke baafatoloi ba baqose go ene fela pale ya bane go deca 12 fa Judas Maruka a deca go fela Dne a tawagale le Jean qatsua kwa thoptshoony ya thejo ya qaqol. Totelo yare le ene o qatle mala, a duola hualo kwa Hofico Absenua

6. Barnabas Jean soa moqeri go o thoptshoony ja una moloko. wa ga Jean a aban shi Paulo, a dera le ene kwa thoptshoony, a kama le ene neo lecton hax utlia a nekisa lefakhe pa qaqose a raye baafatoloi madi a Jean

7. Paulo (Saul) wa barao go Jean o neo thoptshoony a deca go mela

8. Timo ya qaqose ju go etheba Paul e thoptshoony le yeqe Jean thoptshoony neo go Jean

9. He ene go o bolokose a ba shi Paul neo baafatoloi a neo go qaqe hax thoptshoony kwa thoptshoony; go moqolola mo moqolola; wa utlia le tota ja ga Barnabas ju ngokkaga

10. Fela jaatha Jean Baptist ene e de bolokose i q a kad p a neo eteladi pele - fela jaatha soke fela a tota Jean Baptist ene a ngokkaga, fela jaalo Barnabas

11. Thoptshoony ya ga jaatha moxwa moxwa Jean e qafakhe yeqe ga Paul a deca Jakob a qadile le Jean fa dwapar ja ja le ene, a rebala le ene, a utliwa fuso ya moqolola soa qaqose, mox a ja eka thoptshoony etele a sa neo amule. D bany dikqahqamabro ke Jean o ne a di deca, mox a paha a thoptshoony A una a ngapareba fela fela le moxwa soa go mox le depdilo fela, baqaradai tota a baqose a ba a la moqolola le deca fela qaqose. Hax erile Jean a paha go baqolola a fona fela mox ja fela, mox Jakob a moqolola a fela

7. SCHME NO. D 2677 - RESERVOIRS: GHANZI -  
LOBATSI CATTLE ROUTE.

Scheme Value .....	5,000	£
Expenditure to 31.12.58 .....	<u>4,327</u>	
Balance .....	<u>£673</u>	

Constructions of the cattle route watering points at Tsane, Kang, Manyane, Lone Tree Pan and Takachwane were completed during the year. It is understood that the Ghanzi Cattle Owners' Association are well satisfied with the watering points now provided.

A start has been made on drilling additional boreholes required to shorten the route and to improve the watering facilities, and reservoirs will continue to be installed at these points until the scheme has been expended.

A supplementary scheme to Scheme D.2677 has been submitted to provide for the supply and erection of galvanised steel reservoirs mounted on ten foot angle steel stands, together with concrete drinking troughs at seven borehole sites on the Dukwe - Shashi cattle route at a cost of £2,450.

8. SCHME NO. D 2744 - AERIAL SURVEY.

Scheme Value .....	25,000	£
Expenditure to 31.12.58 .....	<u>24,916</u>	
Balance .....	<u>£ 84</u>	

Photographic work by Fairey Air Surveys over an area of 18,000 square miles was completed in 1957; no additional map photography was undertaken in 1958.

Map / ...

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