Form No. 4 5M 4-54
Kelly Co. L-1661

Vitro URANIUM COMPANY

A DIVISION OF VITRO CORPORATION OF AMERICA
600 WEST 33rd SOUTH P. O. BOX 67

Receiving Station ..... Salt Lake City, Utah November 30 1954
Liquidation No. 651 Lot No. 2750 Shippers Lot No. DQ #1
Bought of Vitro Uranium Co. - Desert Queen No. 1 A.E.C. License No. P-1980
Address
Type of Ore Carnotite Date Received 11-16-54
Mining Claim Hardluck Mining District Green River, Emery County, Utah Pile No.

Lot No.	Net Weight Tons	H_2O	Dry Weight Tons	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$		CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	
2750	3.835	4.10	3.678	0.28	0.26	12.03		20.60	19.13	884.93	

U308	Per Lb.	Per Ton	Short Tons	Total Value
0.28% - 5.6# at	$ 3.50	$ 19.60	3.678	$ 72.09
Development allowance 5.6# at	.50	2.80	3.678	10.30
Premium in excess of 4 lbs. per ton 1.6# (5.6# - 4# = 1.6#) at	.75	1.20	3.678	4.41
U308		$ 23.60	3.678	$ 86.80
Haulage allowance		6.00	3.835	23.01
Total				$109.81
Less: Hi-Lime Penalty 12.03% - 6.00% = 6.03%; 6.03% x $0.30 = $1.81 + $1.00		2.81	3.678	10.34
Total U308 Value				$ 99.47
V205				
0.26% - 5.2# at	.31	1.612	3.678	5.93
Total Gross Price				$105.40

CORRECT
CHECKED

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Vitro Uranium Co.

I certify that I hold the A. E. C. Source Material License numbered above.

I hereby transfer to the Vitro Uranium Co., effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement.

Seller or Agent

Buyer assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

UTAH STATE LEASE

FOR

APPLICATION NO. 5059 GRANT: School

URANIUM AND VANADIUM

THIS INDENTURE OF LEASE AND AGREEMENT entered into in duplicate this 17 day of September 19 54 by and between the State Land Board, acting in behalf of the State of Utah, hereinafter called the Lessor, and

NITRO URANIUM COMPANY

party of the second part, hereinafter called the Lessee, under and pursuant to Title 65, Utah Code Annotated, 1953.

WITNESSETH: That the Lessor, in consideration of the rents and royalties to be paid and the covenants to be observed by the Lessee, as hereinafter set forth, does hereby grant and lease to the Lessee the exclusive right and privilege to mine, remove, and dispose of all of the said minerals in, upon, or under the following described tract of land situated in Emery county, State of Utah, to-wit:

All of Section Thirty-six (36), Township Twenty-one (21) South, Range Fourteen (14) East, Salt Lake Meridian.

containing a total of 640.00 acres, more or less, together with the right to use and occupy so much of the surface of said land as may be required for all purposes reasonably incident to the mining, removal, and disposal of said minerals, according to the provisions of this lease, for a period of ten years, beginning January 2nd, first succeeding the date of issuance hereof, and as long thereafter as said minerals may be produced in commercial quantities from said lands, upon condition that at the end of each twenty (20) year period succeeding the first day of the year in which this lease is issued, such re-adjustment of terms and conditions may be made as the Lessor may determine to be necessary in the interest of the State.

ARTICLE I

It is expressly understood and agreed that this lease is granted subject in all respects to and under the conditions of the laws of the State of Utah and existing Rules and Regulations or Rules and Regulations as may be hereafter approved and adopted by the State Land Board.

ARTICLE II

It is further expressly understood and agreed that this lease covers only the mining, removal, and disposal of the minerals specified in this lease, but the Lessee shall promptly notify the Lessor of the discovery of any minerals excepting those enumerated herein.

ARTICLE III

The Lessee in consideration of the granting of the rights and privileges aforesaid, hereby covenants and agrees as follows:

FIRST: To pay to the Lessor as rental for the land covered by this lease the sum of Fifty (50) Cents per acre per annum. All such annual payments of rental to be made in advance on the 2nd day of January of each year, except the rental for the year in which this lease is issued, which is payable on the execution of this lease, such rental to be credited against the royalties as they accrue for the year.

SECOND: To pay a royalty of 12½% of the gross amount received for or the gross value of the leased substances, including the State's royalty share of any bonus received by the Lessee from the sale of the leased substances. The basis for computing the amount due to the Lessor shall be as follows:

(a) If the leased substance extracted are sold under a bonafide contract of sale the amount of money or its equivalent actually received by the owner, Lessee, or other person operating the leased premises from the sale of the leased substances less a reasonable cost, if any, of transporting the leased substances from the place where extracted to the place where under the contract of sale, the leased substances are to be delivered.

(b) If the leased substances extracted are treated at a mill, smelter, processing plant, or reduction works which receives the leased substances from independent sources and which is owned or controlled by the same interests owning or controlling the mine, such disposal shall be treated as a sale within the meaning of this section for the purpose of determining gross proceeds or otherwise, and in such determination a rate or charge for sampling, assaying, milling, smelting, or refining the leased substances therefrom shall be deducted which shall not exceed an amount to be determined by applying the same rates as are applied by such mill, smelter, or reduction works or competing works, and ores of substantially like character and in like quantities received from independent sources. In the event of controversy the Lessor shall have the power to determine such rates and charges. Transportation charges may also be deducted as provided in sub-division (a) hereof.

(c) If a mill or other reduction works is operated exclusively in connection with a mine such mill or reduction works shall be treated as a part of the mine and the cost of operating such mill or reduction works shall, for the purpose of fixing the royalty imposed by this lease, be regarded as part of the cost of mining, and the cost of assaying, sampling, smelting, refining, and transportation only shall be deducted as herein provided.

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THIRD: Said royalties to be paid quarterly on or before the 15th day of the month next succeeding the quarter in which the material is produced.

FOURTH: To prepare and forward to the State Land Office, on or before the 15th day of the month next succeeding the quarter in which the material is produced, a certified statement as to the production, market, and price received on all of the leased substances disposed of from said lands, and such other additional information as the State Land Board may from time to time require.

FIFTH: That at the option of the Lessor it may require the payment of royalties in kind, F.O.B., at the lease site; the amount being 12½% of the leased substances extracted.

SIXTH: To commence actual operations upon the land included herein on or before December 31, 1954 and thereafter to diligently operate the property in accordance with the provisions contained in this lease. Failure to so continue the operation of the land included herein for a period of more than six (6) months without prior written approval of the State Land Board shall be cause for forfeiture, and that upon the violation of this provision or any of the other terms of this lease the Lessor may at its option after thirty (30) days notice by registered mail cancel this lease. After the expiration of the said thirty (30) days and the cancellation of the lease no notice of such cancellation need be given the Lessee.

SEVENTH: To keep at the mine office clear, accurate and detailed maps on tracing cloth, on a scale not more than 50 feet to the inch, of the workings in each section of the leased lands and on the lands adjacent, and to be so arranged with reference to a public land corner that the maps can be readily and correctly superimposed, and to furnish to the Lessor annually, or upon demand, certified copies of such maps and such written statements of operations as may be called for. All surveys shall be made by a licensed engineer and all maps certified to by him.

EIGHTH: To not at any time fence any watering place upon the lands leased where the same is the only accessible and feasible source of water incident to the lands leased. Nor shall the Lessee or assigns at any time permit or contribute to the pollution of any surface or subsurface water available, naturally or otherwise, for domestic or irrigation use.

NINTH: To not sell, assign, mortgage, pledge, hypothicate, or otherwise transfer or incumber this lease or any intetrest therein, nor sublet any portion of the leased premises, or any of the rights and privileges herein granted, without the writtten consent of the Lessor being first had and obtained.

ARTICLE IV

The Lessor hereby excepts and reserves from the operation of this lease:

FIRST: The right to permit for joint or several use such easements or rights-of-way upon, through, or in the land hereby leased as may be necessary or appropriate to the working of these or other lands belonging to or administrated by the Lessor containing mineral deposits or for other use.

SECOND: The right to use, lease, sell, or otherwise dispose of the surface of said lands or any part thereof, under existing State Laws or Laws hereafter enacted, insofar as said surface is not necessary for the use of the Lessee in the mining, removal, or disposal of the leased substances therein, and to lease other mineral deposits, excepting those enumerated herein which may be contained in said lands.

ARTICLE V

Upon cancellation of this lease for any cause herein the Lessee shall be entitled to remove from the lease holdings only personal property prior to complete fulfillment of the provisions of this lease, and that improvements attached to the land such as buildings, timbering, or other construction or construction material in place, shall remain undisturbed upon the ground and the property surrendered in good usable condition.

ARTICLE VI

It is mutually understood and agreed that it shall be the responsibility of the Lessee to slope the sides of all operations of a surface nature to an angle of not less than 45° or to erect a barrier around such operation as the State Land Board may require. Such sloping or fencing shall become a normal part of the operation of the lease so as to keep pace with such operation to the extent that such operation shall not constitute a hazard.

ARTICLE VII

It is mutually understood and agreed by the parties hereto that all of the terms, covenants, conditions, and obligations in this lease contained, shall be binding upon the heirs, executors, administrators, and assigns of the Lessee.

ARTICLE VIII

It is mutually understood and agreed that the Lessee may terminate this lease at any time upon giving three (3) months notice in writing to the Lessor and upon payment of all rents and royalties and other sums due and payable to the Lessor, and upon complying with the terms of this lease with respect to the preservation of the workings in such order and condition as to permit of the continued operation of the leased premises.

ARTICLE IX

It is mutually understood and agreed by and between the parties hereto that the Lessor, its officers and agents, shall have the right at all times to go in and upon the leased lands and premises, during the term of said lease to inspect the work done and the progress thereof on said lands and the products obtained therefrom, and to post any notices on the said lands that it may deem fit and proper; and also shall permit any authorized representatives of the Lessor to examine all books and records pertaining to operations under this lease, and to make copies of and extracts from the same, if desired.

ARTICLE X

It is mutually understood and agreed that this lease is issued only under such title as the State of Utah may now hold, the Lessor shall not be liable for any damages sustained by the Lessee, nor shall the Lessee be entitled to or claim any refund of rentals or royalties or other monies theretofore paid to the Lessor.

ARTICLE XA

Lessee agrees to reimburse the owner or lessee of the surface of the leased premises for actual damages thereto and injury to improvements thereon resulting from LESSEE'S operations hereunder provided that Lessee shall not be held responsible for acts of occurrences beyond LESSEE'S control.

ARTICLE XI

LESSEE agrees to observe faithfully the provisions of Title 65, Chapter 1, Section 18, Utah Code Annotated 1953.

IN WITNESS WHEREOF, the parties have hereunto subscribed their names the day and year first above written.

APPROVED AS TO FORM
E. R. CALLISTER
ATTORNEY GENERAL
By Glen B. Fugit

STATE OF UTAH, STATE LAND BOARD

By A. N. Smith
EXECUTIVE SECRETARY LESSOR

Vitro Uranium Company, a Division
of Vitro Corporation of America
W. B. Hall, Gen. Mgr
LESSEE

STATE OF UTAH
COUNTY OF Salt Lake } ss.

On the 19 day of Oct 1954, personally appeared before me A N Smith who being by me duly sworn did say that he is the Executive Secretary of the State Land Board of the State of Utah and that said instrument was signed in behalf of said Board by resolution of the Board, and said A N Smith acknowledged to me that said Board executed the same in behalf of the State of Utah.

Given under my hand and seal this 19 day of Oct 1954

My commission Expires: 4/12/58

Glen B Fugit
Notary Public, residing at SLC

STATE OF UTAH
COUNTY OF } ss.

On the 8th day of October 1954, personally appeared before me W. B. Hall the signer of the above instrument, who duly acknowledged to me that he executed the same.

Given under my hand and seal this 8th day of October 1954

My commission Expires: July 19, 1956

Ida K. Smith
Notary Public, residing at Salt Lake City, Utah

STATE OF UTAH
COUNTY OF } ss.

On the 8th day of October 1954, personally appeared before me W. B. Hall who being by me duly sworn did say that he is ~~an officer~~ General Manager of Vitro Uranium Co., a Division of Vitro Corporation of America and that said instrument was signed in behalf of said corporation by resolution of its Board of Directors, and said W. B. Hall acknowledged to me that said corporation executed the same.

Given under my hand and seal this 8th day of October 1954

My commission Expires: July 19, 1956

Ida K. Smith
Notary Public, residing at Salt Lake City, Utah

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MINING AGREEMENT

THIS AGREEMENT, made and entered into by and between DESERT QUEEN URANIUM COMPANY, a corporation of the State of Utah, hereinafter referred to as First Party, and VITRO URANIUM COMPANY, a Division of Vitro Corporation of America, a Delaware corporation, hereinafter referred to as Second Party,

W I T N E S S E T H:

WHEREAS, First Party is the owner of seventy-five (75) unpatented mining claims, situate in the County of Emery, State of Utah, described as follows:

Desert Queen # 1 - 15 inclusive;

Desert Queen #16 - 75 inclusive;

All within Sections 10, 11, 14, and/or 15,

Township 22 South, Range 14 East, Salt Lake Meridian;

and

WHEREAS, Second Party is the lessee from the State of Utah of that particular school section No. 36 situate in Township 21 South Range 14 East, Salt Lake Base and Meridian, Emery County, State of Utah, and

WHEREAS, it is the intent and desire of the parties to jointly explore and develop their said properties, and to obtain therefrom successful, commercial production of ores.

NOW, THEREFORE, in consideration of the mutual covenants and promises herein contained, it is hereby agreed:

I.

EXPLORATION WORK

(a) Second Party will, within ninety (90) days from the date hereof, commence and conduct exploration work upon the above

described properties and will, within an additional one hundred twenty (120) days, expend therefor the minimum sum of Twenty Thousand Dollars ($20,000) in this manner: at least Thirty-five Hundred Dollars ($3500.00) on each of the three groups, namely, the (1) Desert Queen Nos. 1-15, inclusive; (2) Desert Queen Nos. 16-75, inclusive; (3) the said leased Section 36.

The balance of the said $20,000 of exploration work shall be done upon any part or all of the said properties as Second Party deems best. If the initial exploration of $3500 on each of the three groups reveals or indicates, on any part of the properties, ore deposits having commercial value, then Second Party may use and apply the balance of the $20,000, to-wit, $9500, for development work upon the properties in lieu of further exploration.

(b) The said $20,000 of exploration work shall be completed by Second Party within two hundred ten (210) days from the date hereof.

(c) Upon completion of the aforesaid exploration work, Second Party may, in its discretion, do additional exploration or development work, or both, upon any part or all of the said properties, in an amount of $10,000 or more. If undertaken, such further work shall be completed within two hundred seventy (270) days from the date hereof.

(d) It is understood that exploration or exploration work as herein used includes drilling, trenching, pitting, necessary road building and repair, assay costs, and such other work as is normally included under good mining practices.

II.

FAILURE TO EXPLORE

Upon Second Party's failure to perform the said $30,000 of exploration (including development) work above provided, and in the times set forth, all further interest of Second Party in the said Desert Queen Groups shall immediately terminate, and

Second Party shall thereupon deliver to First Party a duly executed, written release thereof. The said leased Section 36 shall continue subject to this agreement. Failure to complete the said $20,000 worth of exploration work as herein provided shall constitute a breach of this Agreement, and shall work a forfeiture.

III.

CONVEYANCES

Upon completion by Second Party of the said $30,000 worth of exploration work, (including any said development work) First Party shall, upon written demand of Second Party, tender and deliver to Second Party a duly executed quit-claim deed conveying to Second Party a one-half (½) interest in all of the above described Desert Queen claims. At the same time, Second Party shall tender to First Party its duly executed assignment and conveyance to Second Party of one-half (½) interest in the said State lease on Section 36, and shall take all steps necessary to get the approval thereof from the State of Utah.

IV.

POSSESSION

Second Party, during the term of this Agreement, shall, as between the parties, have exclusive possessinn of the said properties except if surrendered as herein provided.

V.

RECOVERY OF INITIAL EXPLORATION COSTS

The expenditure for all of the initial exploration work, including development, up to the said amount of $30,000 shall be recoverable by Second Party out of gross ore proceeds from production of the properties at the rate of ten percent (10%) thereof, and as received. In the event governmental D. M. E. A. loans are procured

by Second Party for said work, only that portion of the loan expended by Second Party and which it becomes obligated to repay, shall be thus recoverable and then only to the extent of the said 10%. Any required repayment of the said loan or loans shall be and remain the sole responsibility of the Second Party, but nothing herein is intended to restrict Second Party's repayment of such loans in lump-sum amounts.

VI.

DEVELOPMENT AND MINING

If, as a result of the exploration herein described, commercial ore bodies are discovered upon any of the said properties, it is hereby agreed that such further development will, within a reasonable time, be undertaken and diligently furthered by Second Party strictly in accord with the best geological, engineering, and minerlike practices, said work to be conducted solely under the management and supervision of Second Party. Second Party shall likewise undertake the mining of said properties as soon as may be reasonably practicable. Said mining shall be diligently prosecuted in a minerlike, economical manner, with the object of attaining large-scale and profitable production.

Starting two hundred seventy (270) days from the date hereof, Second Party will perform or cause to be performed quarterly, not less than one hundred fifty (150) miner shifts of eight (8) hours upon the said properties, in exploration, development and/or mining work, while this agreement is in force, subject to the defeasance clause in Article XVII below. If Second Party surrenders to First Party part of the property as therein provided, this work requirement shall abate proportionately. This work requirement shall be suspended during any time when conditions beyond Second Party's control preclude operation of the properties at a net profit. All costs of exploration, development and mining shall be paid originally

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by Second Party, subject to recovery as herein provided.

VII.

TOOLS AND EQUIPMENT

All items of tools, supplies and equipment that may be required for such purpose shall be and remain the property of Second Party, except that title to such equipment as cannot be removed without impairing structural or physical strength of any shaft, incline, tunnel, adit, or stope upon or within any of said properties, shall pass to the owner or owners of the particular properties under this Agreement.

VIII.

MARKETING ORES

Second Party shall have the exclusive right and responsibility of marketing any and all production from the said properties and the sales shall be made at not less than the going market price, consideration being had for freight and hauling costs. It is contemplated that Second Party will be the sole purchaser of uranium and vanadium production from the properties, and Second Party agrees that it will, so far as practicable, purchase all of said ores, amenable to its processes, to the limit of its capacity. If for any reason Second Party reduces its capacity, or elects not to purchase all of the said ores produced from the properties, it agrees that it will not on that account curtail mining production, unless Second Party is unable, by reasonable efforts, to find a purchaser of said ores at a price permitting a reasonable net profit from the said mining operations.

IX.

NET PROCEEDS AND COSTS

First and Second Parties will divide equally between

themselves the net proceeds derived from the sale of the ores produced from the properties under this Agreement, whether the sale is to Second Party or elsewhere. Net proceeds here means gross ore receipts together with bonus payments and development allowance, less costs of exploration, development and mining incurred by Second Party hereunder. Costs shall not include any overhead unless directly attributable to Second Party's work and operations hereunder, and in no event will overhead of its Salt Lake or other offices or plants be included. Costs shall include unreimbursed freight charges, direct supervision of the operations at the site of the property, direct accounting and geologist costs, employee and mine taxes, and such other costs as are normally included under standard accounting practices. Capital items shall be included only to the extent of allowable depreciation thereon, and damage or loss resulting from operations at the property. Assessment work shall be part of costs.

Percentage payments of ten percent (10%) of proceeds to reimburse Second Party as above provided shall also be deducted as a cost item.

Reserves set aside by Second Party for future development work on the property shall be deducted, but not again for development work actually done.

As between the parties hereto, any losses that may be sustained as a result of failure of the properties to attain commercial production, shall be borne by Second Party.

I.

ASSAYS, ACCOUNTING AND DISTRIBUTION

All ores shipped hereunder shall be sampled and assayed separately from other ores marketed by Second Party, and reports made thereof. Such reports shall be made available to First Party on request.

A copy of each settlement sheet of ores sold shall be sent promptly to First Party.

Second Party shall, so far as possible, keep current accounts of work and operations in accordance with standard accounting practices, and shall, not less than once each quarter hereafter, render to First Party an accounting report thereof. Such records shall be available for First Party's inspection at reasonable times.

Each party's share of the net proceeds, if any, as above defined, shall be distributed to each party not less than quarterly, accompanied by a financial statement prepared by Second Party as above provided. Nothing herein is intended to limit to any particular period Second Party's deduction of costs as described in Article IX above.

XI.

HOLD HARMLESS

Second Party shall post notices at the Mine so as to hold First Party free and clear of any liability arising from Second Party's operations. Second Party will save harmless First Party against all claims and demands whatsoever arising out of Second Party's operations hereunder, including, but not limited to, death and injuries to persons and damage to property.

Second Party shall comply with all applicable statutes with respect to labor it employs on the work and shall protect and save harmless First Party against any payroll taxes or contributions imposed with respect to any employees of the Second Party by any applicable law.

Second Party will take out and carry and maintain full industrial insurance with the Utah State Industrial Commission as required by law for any and all persons employed in and upon the properties by Second Party, and will ascertain that any independent contractor used by Second Party hereunder will do likewise for its employees. Second Party will conduct all operations so as to

fully comply with the laws of the State of Utah and the United States relating to mining, safety regulations, and in every other respect, and will pay and discharge or otherwise dispose of any and all liens, claims, suits, actions, and demands of any nature whatsoever, including claims for injury or death to persons and loss or damage to property caused by or in connection with the performance of Second Party's work under this Agreement.

Second Party will permit the First Party full and free access to the properties for the purpose of such inspection as is necessary to determine compliance with this Agreement and with the usual health and safety regulations.

III.

CONTRACTING

It is understood that Second Party may contract out any or all of the work to be done under this Agreement.

All contract work shall be let at rates and on terms that are competitive with and comparable to rates and terms prevailing in the area. Second Party shall see that every independent contractor used is in compliance with the Workmans Compensation laws as well as the mining laws of Utah as they apply to the properties.

Before any mining lease or other working agreement on a percentage of proceeds or receipts basis is entered into, Second Party shall give First Party written notice thereof, and First Party shall have five (5) days after receipt of said notice in which to object thereto in writing. The objection shall go only to the advisability from the standpoint of mining economics. If such objection is made, the parties shall immediately endeavor in good faith to settle their disagreement. Failing such settlement within five (5) days of receipt of First Party's objection, each party shall name a qualified authority and those two persons shall immediately name a third qualified person. These three shall act as a board of arbitration and shall

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consider the facts and discuss the problem with each party. Within seven (7) days after their appointment, the board as a unit shall render a short, jointly written decision as to the economic advisability of the proposed lease or other working agreement. The decision of the majority of the board shall govern and shall bind both parties. First Party shall have the burden of proving that the proposed lease or working agreement is economically inadvisable.

XIII.

ASSESSMENT WORK

Second Party shall perform the annual assessment work on the above claims for the first year hereafter as required by law. After said first year Second Party shall have the option of giving at least ninety (90) days written notice to First Party of its intention not to do said assessment work on any or all said claims, and First Party shall thereupon have the option of doing said annual labor. After said 90-day period, Second Party shall be relieved of any further obligation to perform said annual labor and shall tender to First Party a quit-claim deed of all Second Party's title and interest in and to any of said Desert Queen claims referred to in said notice.

XIV.

TITLES

Each party represents that so far as is known to it, its officers and agents, no outstanding or adverse interest in its said property now exists not herein mentioned.

Each party hereby warrants that it has such complete title to its respective properties as is possible presently to acquire and further represents and warrants that it will not encumber its properties in any manner (except the said D.M.A.E. loan) or dispose of

E.A.

same during this Agreement without the written consent of the other first obtained. Each party shall defend its title thereto and save the other harmless from and against any adverse claims based upon rights alleged to have existed at the time of the execution of this Agreement. Expenses of defense of any adverse claim arising after this date, or alleged to have matured subsequent to this date shall be divided initially between the parties equally, but shall be deemed an operational expense to be returned to the parties from the proceeds of ore production. Such claims shall be defended by Second Party, but shall not be compromised or settled without the prior consent of First Party. Any successful adverse claims that may be asserted through rights acquired prior to the execution hereof shall in no wise alter the mutual promises, covenants, and agreements herein contained, unless it be reasonably determined that any award to such successful claimant shall have materially reduced the chances and opportunities for the successful conduct of this venture.

XV.

OTHER PROPERTIES

In the event either party after the date hereon, acquires any direct interest in any other mining claims, or leases thereof, within a radius of one (1) mile of any boundary of the properties herein referred to, then the acquiring party shall accord to the other party the absolute right and option to participate in any of said acquired interests up to fifty (50) percent thereof, upon paying and agreeing to pay fifty (50) percent of the cost and expense incurred therefor by the other party. Consent or rejection to participate as in this article contemplated must be given within sixty (60) days from date of notice of the rights and/or property acquired and the terms of said acquisition.

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XVI.

DEFAULT

If either party shall at any time be in default under the terms of this Agreement, it shall have sixty (60) days after receipt of notice thereof from the other party by registered United States mail, to correct the default, and upon the defaulting party's failure to do so, the other party may bring such legal action on that account as it desires, including a suit for forfeiture.

If either party secures a final judgment against the other for any breach of the terms and conditions of this Agreement, it shall be entitled to costs and reasonable attorneys' fees incurred.

XVII.

CANCELLATION AND RECONVEYANCE

Except for the Twenty Thousand Dollars ($20,000) of exploratory work required in Article I, Second Party shall have the right at any time, upon sixty (60) days written notice to First Party, to abandon work on any or all of the properties above described, and shall thereupon convey to First Party by sufficient quit-claim deed (or assignment of the lease if applicable) all its right, title and interest in the properties on which work is abandoned. Such properties thereafter shall be excluded from this Agreement.

Before permitting the said lease on Section 36 to lapse, Second Party shall give First Party the opportunity of acquiring the same.

Except for the said Twenty Thousand Dollars ($20,000) of exploratory work, Second Party may at any time upon sixty (60) days written notice to First Party, cancel and terminate this Agreement, and shall thereupon deliver to First Party its quit-claim deed to all of the Desert Queen claims, together with an assignment of all interest in the said lease of Section 36. Thereafter Second

Party shall be under no further obligation whatsoever to First Party under this Agreement except for payments due or accrued, and defaults then existing.

XVIII.

DEPLETION

For purposes of income taxation, each party shall take ~~an equal~~ RIF share of depletion upon the gross income resulting from the properties under this Agreement, in accordance with and as permitted by the laws of the United States and any applicable state.

Each party shall furnish the other with such documents and data not inconsistent with this Agreement, as may be necessary to effect such ~~equal~~ RIF division of depletion allowance.

XIX.

DOCUMENTS AND MAPS

Each party agrees to furnish to the other such deeds, abstracts and evidence of title as is in its possession, and to cooperate with the other in perfecting title to the properties.

Within fifteen (15) days after date hereof, each party will at its expense furnish to Second Party all drilling and other exploration and mining information it may have pertaining to said Desert Queen claims.

XX.

FORCE MAJEUR

Work and operations hereunder may be suspended because of acts of nature, strikes, fire, flood, requirement or regulation of Government, or any other cause without regard to the foregoing enumerations, beyond the control of either party, it being agreed, however, that upon the removal of the cause of suspension the work hereunder shall be resumed.

XXI.

ASSIGNMENT

This Agreement shall inure to the benefit of the heirs, successors and assigns of each party.

Neither party shall assign its interest hereunder without the written consent of the other first obtained, except that Second Party may at any time assign up to one-half (½) of its interest to Rochester and Pittsburgh Coal Company, a Pennsylvania Corporation.

XXII.

TERMINATION

Upon termination of this Agreement, whether by cancellation or otherwise, Second Party shall immediately surrender possession of the said properties to First Party but shall have sixty (60) days thereafter in which to remove from the premises its equipment, tools, and supplies. Any ores still located upon the properties and ready for shipment by Second Party, shall be shipped and the net proceeds thereof shall be divided equally as hereinabove set forth. Upon such termination, Second Party shall pay all bills and other outstanding obligations incurred by it under this Agreement.

XXIII.

NOTICES

Any notices required or permitted to be given hereunder shall be delivered by depositing in the United States mail, duly registered, with postage thereon postpaid, addressed to the respective parties as follows:

If to First Party, Attention Mr. George Bridwell
Attorney at Law
Judge Building
Salt Lake City, Utah

If to Second Party, 600 West 33rd South
Salt Lake County, Utah

Said addresses for receiving notices may be changed by either party upon two (2) days previous written notice to the other party.

XXIV.

DURATION

This Agreement shall continue for twenty (20) years from the date hereof, subject to termination as herein provided or by mutual agreement of the parties.

XXV.

USE OF NAME

First Party shall not use or refer to Second Party or Vitro Corporation of America by name or by direct reference so that its, or their, name can be determined, in any prospectus, letter, advertisement, publication, or any communication to its stockholders, to brokers, or to the public, except upon prior approval of the same by the law firm of Ray, Quinney & Nebeker, attention W. J. O'Connor, Jr., Salt Lake City, Utah, or such other law firm as Second Party may designate in writing.

IN WITNESS WHEREOF, the parties hereunto set their hands this 21st day of October, 1954.

DESERT QUEEN URANIUM COMPANY

By [signature]
President

FIRST PARTY

Attest:
[signature]
Secretary

VITRO URANIUM COMPANY, a Division
of Vitro Corporation of America

W B Hall
Gen Mgr

SECOND PARTY

STATE OF UTAH }
COUNTY OF SALT LAKE } ss.

On the 21st day of October, 1954, personally appeared before me Rex L. Firth and Carl T. Griffith, who being by me duly sworn did say, each for himself, that he, the said Rex L. Firth, is the president, and he, the said Carl T. Griffith, is the secretary of Desert Queen Uranium Company, and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its board of directors and said Rex L. Firth and Carl T. Griffith each duly acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

My commission expires:
July [illegible]

William L. Rossman Jr.
Notary Public
Residing at Salt Lake City, Utah

STATE OF UTAH }
COUNTY OF SALT LAKE } ss.

On the 23 day of October, 1954, personally appeared before me William B. Hall, the signer of the foregoing instrument, who duly acknowledged to me that he executed the same on behalf of Vitro Uranium Company, a Division of Vitro Corporation of America.

My commission expires:
July 29 1955

William L. Rossman Jr.
Notary Public
Residing at

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SEP 30 1955

North 500' from SE cor. D.Q. 20 to DR-1

PROPERTY Desert Queen

LOCATION SE4 SE4 Sec. 11 CLAIM D.Q. #20 G.E.

T 22S R 14E

HOLE NO. DR-1 TOTAL DEPTH 600' DATE 3-29-55 to 4-2-55

PROBED BY C. H. Smith DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-80			Sis, hd. & MS, soft, grn. to blue w/some lav hd. sis.
80-132			MS & sis, var. (lav, pur, gy, wh. & r.)
132-135			ss, wh., siliceous
135-148			Same
148-151			Sis, lt. grn & silty MS impreg. w/yellow-grn mat'l
151-188			Same
188-191			Sis, wh., siliceous
191-260			Same
260-338			MS & sis, vareg (lav, r., gy. & wh)
338-340			Ss, wh., v.f. gr.
340-360			Same
360-365			Ss, gy., f. gr.
365-375			No return? ss, wh. sugary soft
375-495			MS r, grn. & bl., some silty
495-503	499-501 reads 80 on 5 scale	Thru drill pipe	Sis, lt. grn. hd & ss, f. gr. wh., soft.
503-530	@ 533 reads 40 on 5 scale 1" thick		Ss, wh., sugary, f. gr. some blk. no return 510-515 v. soft ss.
530-555			Ms, blue
555-560			Sis, lt. grn., hd.
560-580			? Ss, sugary, soft. No return
580-600			? Ms, pur., bl. & lt. grn., some sis, Few returns lt grn, soft

PROPERTY Desert Queen

LOCATION SW¼ NW¼ Sec. 14 — 500 ft. South NE Cor. 68 & NW Cor. 67

CLAIM D. Q. #67-68 — G.E.

T 22S R 14E SLM

HOLE NO. DR-2 — TOTAL DEPTH 270' — DATE 4-4-55

PROBED BY R. L. Baxter — DESCRIBED BY R. L. Baxter

H. B. Miller Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-5			Sh., rust, soft
5-12			Sh., lav., hd. calc.
12-16			Sh., rust soft
16-18			Sh., gy., med. hd.
18-28			Sh., brn., med. hd., calc.
28-35			Sh., bl.-grn., hd., calc.
35-45			Sh., rust, soft, calc.
45-48			Sh., r. pur., calc., soft
48-50			Ss., v. f. gr., lt. grn., sft., calc.
50-60	Neg.		Sh., lt. grn. & rust, soft, calc.
60-63			Ss., v.f. gr., gy., soft, calc.
63-72			Sh., lt. brn., rust, soft, calc.
72-78			Ss., lt. grn. pur., arg., soft
78-83			Ss, v. f. gr., lt. grn., med. hd., calc.
83-90			Ss., v.f. gr., wh., soft., calc.
90-100			Ss., f. gr., med. hd., wh.
100-102			Congl., chert pebbles, r. & gy.
102-118			Sh., rust & bl., soft, calc.
118-164			Ss, med. hd., lt. grn. & gy., calc. silty, f. v. f. gr.
164-172			Sh., dk. brn. & bl., soft, calc.
172-188			Silty ss, v. f. gr., med. hd., lt. grn. calc. some hd. grns. sis & wh.
188-190			Sh., dk. brn., soft, calc.
190-210			Silty ss, v.f. gr., lt. grn., hd, some hd grn sis & wh. soft ss
210-215			Sh., bl., soft calc.

PROPERTY Desert Queen

500 ft. South NE Cor. 68 & NW Cor. 67

LOCATION SW4 NW4 Sec. 14 CLAIM D. Q. # 67-68 G.E.

T 22S R 14E SLM

HOLE NO. DR-2 TOTAL DEPTH 270' DATE 4-4-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

H. B. Miller Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
215-230	↑		Silty ss., lt. grn., hd., calc., some hd. grn. sis
230-235			Sh., bl., soft
235-260	Neg.		Silty ss., vit. gr., hd. lt. grn. w/wh f. gr. ss & hd. lt grn sis
260-270	↓		Sh., rust & bl. soft

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PROPERTY Desert Queen — 600 ft. N 30°E of SW cor. 9 & NW cor. 8

LOCATION SE4 SE4 Sec. 10 — CLAIM D. Q. #9 — G.E.

T 22S R 14E SLM

HOLE NO. DR-3 — TOTAL DEPTH 260' — DATE 4-4-55

PROBED BY R. L. Baxter — DESCRIBED BY R. L. Baxter

Ray Drilling Company

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-24			Sh., choc. brn., soft. 2' t. gr. ss @ 17' lt. brn. & lt. grn.
24-40			Sh., bl-grn., soft
40-45			Sis., hd., lt. grn. & lt. brn.
45-51	Neg.		Sh., choc. brn., soft.
51-54			Sis., lt. brn., hd.
54-57			Sis., lt. grn., hd.
57-60			Sh., soft, lt. brn., & lt. grn.
60-78			Ss., v. f. gr.-med. gr., gy-lt. grn., med hd.
78-81			Silty ss., lt. grn., hd.
81-160			Ss., f.-crse. gr., sugary, poorly cemented, gy., brn & wh. *
160-170			Sis., brn., soft, w/some bentonite.
170-190			Sis., bl.-grn, med-soft.
190-195			Ss., f.-med. gr., lt. tan
195-204			Sis., lt. grn., med. hd.
204-225			Ss., f. gr., poorly cemented, gy.
225-260			Sis., lt. bl-grn & wh. w/lt bl. sh,

PROPERTY Desert Queen

LOCATION NE4 SW4 Sec. 10 CLAIM D. Q. #14 G.E.

T 22S R 14E SLM

HOLE NO. DR-4 TOTAL DEPTH 280' DATE 4-5-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

340' N 15°E of NE 12, SW 14 & NW 12A H. B. Miller Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-10			Sis, lav & brn., med. hd.
10-20			Sh., lav & rust
20-23			Ss, v. f. gr., lav., med. hd.
23-45			Ss, f. gr., wh., sugary, med. soft.
45-60			Sh., pur. & lt. bl.-grn.
60-75			Sis, gy., hd. & sh., choc. brn., soft.
75-100			Ss., wh., sugary, f. med. gr., med. soft
100-115			Sh., bl.-grn., soft
115-118	Neg. 118 Trace		Ss, f. gr., wh., med. hd.
118-120			Sh., d. brn., soft
120-225			Sis., lt. bl.-grn., med. hd. w/soft lt. bl. grn. sh.
225-260			Ss., v. f. gr. hd., siliceous, wh.
260-280			Sis., lt. bl.-grn. & wh., med. hd., w/soft lt.bl. sh.

PROPERTY Desert Queen

LOCATION NW¼ NE¼ Sec. 23 CLAIM D. Q. #72 G.E.

T 22S R 14E SLB&M

HOLE NO. DR-5 TOTAL DEPTH 316' DATE 4-11-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

600 ft. N 60° W of SE Corner of Desert Queen claim #72

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-10			Sh., lav., hd.
10-15			Sh., lt. grn., med. hd.
15-18			Sis, r.-pur., hd.
18-20			Sh., lt. grn., med. hd.
20-28			Sh., lav., hd.
28-36			Sh., r-brn., hd., silty
36-40			Ss., f. gr., wh., med. hd.
40-43			Sh., pur., med. hd.
43-48			Ss., f. gr, wh., med. hd.
48-50			Sh., soft, pur-brn
50-60			Sh., med. hd. ivory
60-63			sis, mod. hd., r.-brn.
63-65			Sh., lt. grn., med. hd.
65-70			Sh., lt. brn., med. hd.
70-73			Ss., tan, med. hd., f. gr.
73-77			Sh., d. brn., med. hd.
77-80			Ss, lt. tan, med. sft., v. f. grn.
80-82			Sh., silty, med. sft., lt. brn.
82-100			Sh., lt. bl., med. sft., sl. calc.
100-115			Sh., med. hd., brn. & lav.
115-117			Ss., f. gr., med. hd.
117-123	Neg.		Sh., r.-brn.
123-130			Sis, hd., lt. brn.
130-133			Sh. & sis., lt. brn., & gy., med. hd.

PROPERTY Desert Queen

LOCATION NW4 NE4 Sec. 23 CLAIM D. Q. #72 G.E.

T 22S R 14E SLM

HOLE NO. DR-5 TOTAL DEPTH 316' DATE 4-11-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

600 ft. N 60° W of SE Corner of Claim #72 (Desert Queen)

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
133-137			Sh., bl.-grn., med. soft
137-140			Sis, med. soft, lt. brn.
140-144			silty, sh., d. brn., med. hd.
144-156			Ss., lt. grn., v. f. gr, med. soft
156-162			Sis & sh., brn., med. hd.-soft
162-190			Sis, med. hd.
190-215			Sh., brn., med. hd.
215-220			Sis., lt. grn., med. hd.
220-230			Ss, wh., sugary, f. gr.
230-240			Sh., brn., med. soft
240-243	Neg.		Sis., med. hd., lt. grn.
243-250			Sh., brn., med. soft
250-256			Ss., wh., f. gr., med. hd.
256-282			Sis., lt. grn., med. hd.
282-300			Ss., wh., f. gr., med. hd.
300-315			Sis & sh., lt. grn., med. hd.

PROPERTY Desert Queen

LOCATION S 10° E, 100' From DC-2 To

CLAIM Long Shot #3

G.E.

HOLE NO. DR-6

TOTAL DEPTH 120'

DATE 4-23-55

PROBED BY R. L. Baxter

DESCRIBED BY R. L. Baxter

H. B. Miller Drilling Company

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-3	0-4		ss, gy. f, med. hard, calc.
5	"		st & sh. lt. gn., med. soft, calc.
6	"		Sh., soft, choc. brn.
30	"		Sh & st, m. soft, lt. bl & brn. calc.
35	"		ss, f. gr., gy., med. hd., calc.
38	"		sh, choc. brn. soft
40	"		silty sh, lt. bl, soft, calc.
43	"		st, lt. gn. hd. calc.
65	"		ss, wh. poorly cemented, calc.
90	"		st & sh lt. bl. & grn. soft, calc.
115	"		ss., f., sugary, wh. calc.
120	" - 117		st & sh, bl-grn. & choc. brn. calc & soft

PROPERTY Desert Queen

LOCATION South, 100 ft. from ¼ Sec. 22 & 23 CLAIM Long Shot #2 G.E.

HOLE NO. DR-7 TOTAL DEPTH 150' DATE 4-23-55

PROBED BY C. H. Smith DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-3	0-4		sh., lt. grn. & pur., med. soft
6	"		Sh., lt. brn., calc., " "
9	"		St, lt. grn., " , " "
12	"		Ss, " " , " , " "
56	"		St, varingated, calc. med. hd.
83	"		ss., lt. grn., yel & gy, mostly poorly cemented, calc.
90	"		St, d. brn. soft & st lt grn, med. hd. calc.
105	"		Sh., d. brn. soft. calc. & st. lt. grn. med. hd. calc.
121	"		ss, f., m. soft, calc, wh., w/some d. brn. sh & lt. grn. st.
124	"		sh., choc. brn. soft, calc.
135	"		sh. bl. soft., calc.
150	"		st. & sh. bl, soft, calc.

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PROPERTY Desert Queen

LOCATION South, 100 ' From N.E.C. D. Q.

CLAIM D. Q. #47

G.E.

HOLE NO. DR-8

TOTAL DEPTH 550'

DATE 4-26-55

PROBED BY R. L. Baxter

DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-3	0-4		silty sh., lt. grn. soft calc.
6	"		st, lt. bl., med. hd., calc.
10	"		ss, wh., soft, f., calc.
12	"		silty sh, bl-grn., soft, bleached calc.
18	"		silty shl, soft, gy-grn, calc.
21	"		st., lt. bl., med. hd., calc.
70	"		sh, st, ls., soft-hd. mostly calc. lt. bl. brn, bl. & lt grn.
80	"		st., lt. grn. med soft, st. calc.
83	"		ss, f, wh., hd. sl. calc.
90	"		sh., bl., med. soft, sl. calc.
125	"		st., med. soft-med-hd., calc, lt. grn. to bl.
128	"		congl., ss matrix, hd. w/chert pbls.
170	"		silty sh., hd., pur. & bl.
185	"		st, hd. lt. bl. r-brn. & wh.
203	"		sh. & silty sh., med. hd. lt. bl. & pur.
215	"		ss, f., vari-colored grains, hd.
360	"		sh, silty sh. varigated, med. soft to hd.
366	"		ss, f., hd, lt. grn. & lt. brn.
368	"		sh., pur., med.-hd.
374	"		ss, poorly cemented, gy, F.
382	"		sh., bl & brn. soft w/some bleached bl-grn.
422	"		silty ms., choc brn. w/bleached bl-grn. sh., soft, calc.
450	"		ss. v/f/ med/. spft wh/tan, calc.

PROPERTY Desert Queen

LOCATION South, 100' From N.E.C. D. Q. CLAIM D. Q. #47 G.E.

HOLE NO. DR-8 TOTAL DEPTH 550' DATE 4-26-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
465	0-4		Sh. soft, bleached bl-gn, calc.
492	"		ss, wh. & tan, soft, f., calc.
493	26-4		ss, d. gy, soft, calc.
515	0-4		ss, wh. & tan, soft., F., calc.
550	"		sh. bleached bl. grn. & choc. brn. soft., calc.

PROPERTY Desert Queen

LOCATION S 45° W, 200 ft. From CLAIM D. Q. #10 G.E.

SW cor. D. Q. #13 To

HOLE NO. DR-9 TOTAL DEPTH 300' DATE 4-27-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

H. B. Miller Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-1	0-4		Ss, vf, pale grn., med. soft
6	"		silty sh., choc. brn., med. soft
12	"		ss., f., med. soft, pale grn.
30	"		sh., med. soft., brn., calc.
50	"		st., med. soft, lt. bl., grn. & brn. w/some sh, calc.
70	"		ss, vf., wh. & lt. grn., med. soft.
105	"		sh & st, bleached, v-soft sh. bl-grn. & choc. brn., calc
125	"		ss., f. med., wh & pale grn. soft, calc.
140	"		sh., bl-grn. bleached & choc. brn. v. soft, yel iron stain
165	"		ss, wh, vf., soft, bentonitic calc.
195	"		sh & st, lt. grn, soft-med. calc.
200	"		ss, wh., vf, med-soft, calc.
210	"		ss, vf & st. lt grn, soft calc.
235	"		st. & sh., bl-gy & grn-gy, calc., soft
252	"		ss., f-m, soft, poorly comented, calc.
258	"		st, soft, lt-grn & wh. bentonitic calc.
266	"		sh., soft, choc.-brn, calc.
299.7	296-		st, lt. grn., hd-soft, calc.
300			gypsum, wh. soft

PROPERTY Desert Queen

LOCATION S 80 E, 720' From NW Cor. D.Q. #7 To

CLAIM D. Q. #7

G.E.

HOLE NO. DR-10

TOTAL DEPTH 273

DATE 4-28-55

PROBED BY R. L. Baxter

DESCRIBED BY R. L. Baxter

H. B. Miller Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-10	0-4		Ss, F., poorly cemented, wh.
20	"		st. & sh. vareg. brn., lt. grn & yel limonite stain 16-18
21.5	10-4		" " " " "
75	0-4		" " " " "
140	"		ss., vf. med. soft, wh. & tan
145	"		sh., choc. brn., soft., calc
160	"		st. & sh., grn. & bl. soft-hd. calc.
195	"		st, lt. grn & wh., vf. ss, soft calc.
255	"		st, lt grn. & bl, soft calc.
260	"		ss, med-crse, poorly cemented calc.
266	"		st, lt. grn. & bl, soft, calc.
272	"		ss, vf, wh., soft, calc.
273	"		st, lt. grn. & bl. soft calc.

PROPERTY Desert Queen

LOCATION NE4 NW4 NE4 Sec 14 CLAIM 21/23 O.E. Ray Drilling Company

T 22S, R 14E SLM

HOLE NO DR-11 TOTAL DEPTH 505 DATE 6-30-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

North 300' from SE cor. 21, SW cor. 23, NE Cor. 36, NW cor. 38

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-20			ss, f, lt. brn, hard, sty.
20-40			sts, lt. brn, hard w/red ms
40-60			sts, lt. brn, hard w/blue ms
60-71			sts, lt. brn, hard
71-72			chert cgl in sts, lt. brn, hard
72-87			sts, lt. brn, w/blue ms
87-91			sh, red & blue
91-110			sts, lt. brn w/blue ms
110-112			ms, red
112-134			sts, lt. brn. w/blue ms & some red sh. & chert buttons
134-138			ms, red
138-150			sts, lt. brn w/red & blue sh.
150-177			sh, red & blue-green silty
177-183	Plug Neg.		sh, red & green, sdy, lt. brn f. hard
183-195			sh, red, sty.
195-208			sh, green sty
208-209			sh, blue
209-216			ss, f-m, lt. brn, hard w/blue & red sh. buttons
216-235			sts, lt. green, hard w/red sh. buttons
235-297			shs, red, blue & green sty.
297-301			sts, lt green, hard
301-306			sh, red, sty.
306-310			sts, lt. gr, hard (?)
310-331			sh, red, sdy & sty.

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PROPERTY Desert Queen

LOCATION NE4 NW4 NE4 Sec.14 CLAIM 21/23 C.E. Ray Drilling Company

T 22S, R14E, SLM

HOLE NO. DR-11 TOTAL DEPTH 505' DATE 6-30-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

North 300' from SE cor. 21, SW cor. 23, NE cor. 36, NW cor. 38

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
331-340			sts, lt. brn, hard
340-374			shs, red & blue
374-386			ss, f-m, lt. brn, hard
386-391			sh, red sty.
391-441			ss, f. lt. brn, hard
441-444			ss, f. lt. brn, hard (?) w/few red sh buttons
444-448			ss, f-m, lt. brn, friable
448-453			sh, red & green sdy.
453-456	Plug Neg.		ss, f-m, lt. brn, friable
456-459	started drilling w/water		ss, m-c, lt. brn, friable
459-464			ss, f-m, lt. brn, friable
464-471			ss, m-c, lt. brn, mod hard-friable
471-487			ss, f-m, lt. brn, friable
487-498			sh, red & blue sdy (?)
498-505			sh, red & blue

PROPERTY Desert Queen

LOCATION SE4 SE4 Sec. 11 CLAIM 24 G.E. Ray Drilling Company

T 22S R 14E SLM

HOLE NO. DR-12 TOTAL DEPTH 606' DATE 6-30-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-32			ss, f. lt. brn, hard calc.
32-39			ss, f, lt. brn, hard calc w/red ms
39-60			ss, f, lt. brn, hard calc.
60-63			ss, f, lt. brn, & red, hard calc.
63-69			ss, f, lt. brn, & red w/hard gr sh. buttons
69-84			sts, lt. brn., hard w/red sh.
84-145			sts, lt. brn. w/gr sh.
145-170			ss, f-m, lt. brn, hard, calc.
170-195			sh, red, sdy
195-197			ss, f-m, lt. brn, hard, calc w/red sh buttons
197-204			ss, f-m, lt. brn, friable, calc, w/hard gr sh. buttons
204-207	started drilling water		sh, red & gr w/ss, fm, lt. brn. calc.
207-240			sh, red & gr. sdy
240-246	Plug		ss, f-m, lt. brn, calc w/abundant red sh.
246-262			sh, blue & red, sdy
262-268			ss, f-m, lt brn calc w/red & blue sh.
268-390			shs, red, gr & blue, sdy, f-c, lt. brn.
390-396			chert cgl, metrix m-c, lt. brn, calc
396-399			sh, red, gr, & blue
399-414			ss, m-c, lt brn w/blue & gr sh. buttons
414-426			sh, red & blue, sdy, f-m, lt brn
426-429			ss, m-c, lt. brn, calc w/abundant sh, red & blue
429-487			sh, red & gr & blue
487-495			sh, red, gr, & blue, sdy, f-m, lt bl.

PROPERTY Desert Queen

Ray Drilling Company

LOCATION SE4 SE4 Sec. 11 CLAIM 24 G.E.

T 22S R 14E SLM

HOLE NO. DR-12 TOTAL DEPTH 606' DATE 6-30-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
495-521.6			ss, m-c, lt. brn w/red, gr
521.6-522.0	.02		ss, m-c, lt brn, calc
522.0-522.5	.02		"
522.5-522.9	.05		"
522.9-523.2	.09		Ss, m-c, lt. brn, calc w/gr & blue sh. buttons
523.2-523.7	.13		"
523.7-524.0 plug	.03		"
524.0-525.0	.01		"
525.0-568			"
568-606			Sh, red, blue & gr sdy, m-c, lt. brn.

Ray Drilling Company

PROPERTY Desert Queen

LOCATION NW4 SW4 Sec. 13 CLAIM 43 G.E.

T 22S R 14E SLM

HOLE NO. DR-13 TOTAL DEPTH 597' DATE 6-18-55

PROBED BY Smith & Hanson DESCRIBED BY Smith and Hanson

S 45° W 300' from SE Cor. 42, SW Cor. 44, NE Cor. 43, & NW Cor 45

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-15	↑ ↑		cgl. lt. brn, ¼" pebbles, calc.
15-25			ss, white, v. lt. brn, f-m, hard, calc.
25-61			Sh, gy.
61-80			Sh. lt. red & some gy.
80-84			Ms, red lt.
84-94			ss. vf, lt. brn. hard
94-98			Ms purple-red
98-112			Sh, red, hard ribs
112-139			Ss, f-M, lt. brn, med soft
139-142			Sh, bk-gy, reddish tinge
142-146			Ms, lt. gn-gy
146-265 Plug			Ms, red-gn, little H_2O @ 165'
265-295			cgl. chert, red, water @ 295'
295-325			Sdy sh, red
325-331			Ss, c, white-buff, abundant r. sh.
331-436			Sh, red, sdy
436-469			Ss, m-c, chert, r. sh. buttons
469-493			Sh, r, some gn.
493-496			Ss, f-m lt. brn.
496-499			Ss, lt. gy, f-m w/r. & gn sh. buttons
499-516			Ss, c. lt. brn.
516-519.3	.02		Ss, c, lt. brn
519.3-519.5	.06		"
519.5-519.7	.10		"

PROPERTY Desert Queen

LOCATION NW4 SW4 Sec. 13 T 22S, R 14E, SLM

CLAIM 43

G.E.

HOLE NO. DR-13

TOTAL DEPTH 597'

DATE

PROBED BY Smith and Hanson

DESCRIBED BY Smith and Hanson

S 45° W 300' from SE Cor. 42, SW Cor. 44, NE Cor. 43, & NW Cor. 45

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
7-520.0	.14		Ss, c. lt. brn.
0-520.5	.12		"
5-521.0	.10		"
0-521.5	.08		"
5-522	.06		"
2-523	.05		"
3-524	.04		"
4-526	.02		"
6-530 Plug			Sh, red
0-568			Sh, red, sdy, M-C
8-597			Sh, red & gr

PROPERTY Desert Queen

LOCATION SW^{4} NW^{4} Sec 13 CLAIM 48 G.E.

T 22S, R 14E, SLM

HOLE NO. DR-14 TOTAL DEPTH 550' DATE 6-30-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-15			ss, f, lt. brn & red, hard
15-92			ss, f, lt. brn, hard
92-96			sh, red
96-111			sts, lt brn, hard w/blue & red sh. buttons
111-117			sts, ss, f. lt. brn, hard, w/blue sh. buttons
117-126			sts, ss, f, lt. brn, hard
126-137			chert cgl up to ¼" sts-ss, f-m, lt. brn.
137-162			ss, f-m, lt. brn, friable
162-164			chert cgl up to ¼" in ss, f-m, lt. brn friable
164-169			ss, f-m, lt. brn, friable
167-180			sh, red & blue
180-189 Plug	Neg.		ss, f., lt. brn, med hard-friable
189-198	started drilling w/water		chert cgl up to 1/8" in ss, f. lt. brn, friable
198-204			sh, red
204-457			No samples, drilling troubles
457-469			sh, red, gr & blue sdy (?)
469-477			ss, f-m, lt brn, friable
477-483			sh, red sdy (?)
483-505			ss, f-m, lt. brn, friable
505-523			sh, red gr, & blue
523-526			ss, f-c, lt. brn, friable
526-550			sh, red, blue & gr.

RECEIVED
SEP 20 1955

PROPERTY Desert Queen

LOCATION 565°±, 75' From SE cor. Sinbad to

CLAIM (Desert Queen #1) Long Shot #3

G.E. 3778.3

HOLE NO. DC-1

TOTAL DEPTH 104

DATE 12-10-54

PROBED BY

DESCRIBED BY C. M. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-5	Neg.		overburden
5-15			ss, m., gy., a-gy-ms sms., R-ms. @13'
15-21			Ms and st., gy, some f., ss
21-24.5			Ms, R.
24.5-35			ss, m-c., buff to gy. soft
35-47			ss, m-c. gy, a-carb. sms.
47-52			st., gy.
52-53			ms, r.
53-55			ms, gy.
55-59.5			ms, and st., gy.
59.5-86	30-4 80' to 83'		ss, c-congl., lt. br. A.-carb. 76' to 86
86-90	Neg.		St and ms, gy.
90-91			ms, r & yel.
91-96			ss and st, F., gy., hard rib, tight
96-98			ms, R & gy.
98-104			ms, choc. br., with hard ribs

PROPERTY Desert Queen (Desert Queen #1)

LOCATION S 40° E, 230' from SE cor. Sinbad To CLAIM Long Shot #3 G.E. 3792.3

HOLE NO. DC-2 TOTAL DEPTH 100' DATE 12-10-54

PROBED BY DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-4	Neg.		ss, c-congl., lt. br., m-carb.
4-6			ms, gy.
6-11			ms, r. and gy.
11-20			ms, R, some gy.
20-23			ms., R.
23-30			St, gy-gn.
30-38			St. and ms., gy.
38-41			Ms, R. and gy.
41-50			ss, R., A-R. ms.
50-53			Ms., R.
53-60			ss, c., lt. br., M-gy-gn. ms.
60-64			ss, m-c., lt. br. A-carb. @ 63
64-65			ms, R. and gy.
65-70			ss., m-c, lt. br. wk. min. 67'-68'
70-89			ss, m-c, lt. br.
89-90			ss, congl. hard, tight
90-96			st, and ms., gy.
96-100	Neg.		Ms, R. and gy.

PROPERTY Desert Queen

LOCATION S 40 H, 250' From SE cor. Sinbad to

CLAIM (Desert Queen #1) Long Shot #3

G.E. 3764.9

HOLE NO. DQ-3

TOTAL DEPTH 123'

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-3	Neg.		overburden
3-4.5			ss, congl., lt. gy.
4.5-6			ms, R. and gy.
6-8			st., gy.
8-11			ms, R. and gy.
11-15.5			ss, M-MF, R., A-R-MS,
15.5-24			ss, C., Buff M-R-ms, S-chert pebl.
24-26.5			ms-st, dk. gy -bk.
26.5-27			ms, R.
27-34			ss, m-c, lt. br-gy., s-r and gy. ms.
34-37			ms. - st., gy.
37-63			ss, m-c, gy-lt. br., A-gy ms, m-carb.
63-64			Qtzite, br.
64-68			ss, f-c, lt. br.-gy., hard, a-gy ms.
68-72			ms-st, gy.
72-75			ss, congl., lt. br-gy, hard
75-77			ms, gy.
77-83			ms, r-gn.
83-85			ms., R.
85-88.5			ss., M., lt. br., s-gy ms. and carb.
88.5-91.0			MS., R.
91-92			Ms, Bk.
92-105			ss, congl., lt. gy., A-gy ms., soft
105-123	Neg.		ms-st., R-gy.

PROPERTY Desert Queen

LOCATION S 30° W, 90' From DC-3 To

CLAIM (Desert Queen #1) Long Shot #3

G.E. 3768.6

HOLE NO. DC-4

TOTAL DEPTH 117

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-8	Neg.		overburden
8-17			ms-st, r-gy.
17-21			ss, f-mf, A-R ms
21-23			ms, R.
23-28			ms, gy.
28-32			st, gy.
32-38			ss, m-c, lt. br. A-gy ms
38-48			ss, m-c, lt. br.
48-58			ss, c-congl., lt. br.
58-70			ms-st, gy, purple 66'-67'
70-78			ms, r-gy, hard ribs
78-80			ss, f-mf, lt. br., A-gy ms
80-82			ms, gy.
82-97			ss, m-mc, lt. gy. A-gy ms
97-117	Neg.		ms, R-gy, hard ribs

PROPERTY Desert Queen

LOCATION S 35° W 750' From NE cor. DQ #3 To

CLAIM Desert Queen #3

G.E.

HOLE NO. DC-5

TOTAL DEPTH 133'

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-8	Neg.		overburden
8-28			ss, m-mc, lt. gy, m-carb., A-gy ms
28-32			ss, congl., lt. br.
32-38			st., gy to Bk
38-49			ms-st, gy.
49-52			ms, purple
52-72			ms, r-gy.
72-82			ms, R-gy.
82-125			ms, R-gy.
125-133	Neg.		ss, congl. hard, tight, lt. br., gyp bands

RECEIVED
SEP 30 1955

PROPERTY Desert Queen

LOCATION S 30 W, 90' From NE Cor. DQ #3 To

CLAIM Desert Queen #3

G.E.

HOLE NO. DC-6

TOTAL DEPTH 57

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-8	Neg.		overburden
8-16			Ms. - st., gy-R.
16-20			Ms, Dk. R.
20-21			Ms, Gy.
21-29			ss, M., lt. gy, A-gy ms
29-32			ms, Dk. gy, silty
32-35.5			ss, F., lt. gy, hard tight, A-gy ms.
35.5-38			ms, Gy.
38-48			ms, R-gy.
48-55			st, gy, gn, mica flakes
55-57	Neg.		Ms, R.

PROPERTY Desert Queen

LOCATION N 30 E, 140' From SE cor. LS #3 To

CLAIM Desert Queen #2

G.E.

HOLE NO. DC-7

TOTAL DEPTH 65'

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-7	Neg.		overburden
7-17			Ms, Gn. and R.
17-23			Ms, gy.
23-27			qtzite, congl.
27-33			ms - st, gy.
33-41			ms, purple, gy., bk.
41-47			ss, M., tight hard
47-49			ms, gy.
49-56			ss, M., A-carb.
56-65	Neg.		ms, gn-gy.

PROPERTY Desert Queen

LOCATION S°15 E, 120' From NE cor. DQ #12 To

CLAIM Desert Queen #12

G.E. 3729.3

HOLE NO. DC-8

TOTAL DEPTH 297'

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-3	Neg.		overburden
3-18			ss, congl. lt. gy
18-25			ms, R.
25-29			st., gy.
29-33			ms., gy.
33-40			Ms, R.
40-81			ss, c-congl., lt. gy m-gy ms
81-82			st., gy.
82-152			ms. R-gy.
152-158			ms., gy.
158-176			qtzite, r-gy ms. splits
176-186			ss, lt. gy, f-mf, a-gy ms, min. @185'
186-192			ms, bl-choc. br.
192-200			ms-st, r-gy.
200-202			ss, f., hard, gy.
202-216			ms-st, R-gy.
216-232			ss, congl., hard, thick sms of r-gy ms.
232-238			ms, R.
238-243			ss, v f, hard
243-262			ms, R-gy.
262-272			qtzite, choc. br. bands of gyp.
272-297	Neg.		ms - choc. br., a-bands of gyp.

PROPERTY Desert Queen

LOCATION N 40° W, 280' From SE cor. DQ #14 To

CLAIM Desert Queen #14

G.E. 3744.4

HOLE NO. DC-9

TOTAL DEPTH 191'

DATE 12-10-54

PROBED BY

DESCRIBED BY C. H. Smith

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-8	Neg.		overburden
8-14			ss, m-mc, lt. brn.-gy A-R. ms.
14-50			ms, R.
50-61			ms, gy.
61-72			ms, R-gy, hard ribs
72-92			ms, R., hard ribs
92-118			ss, c-congl. lt. br. m-gy ms.
118-122			ms, gy.
122-135			ms, R-gy, hard ribs
135-146			ss, m-ms, lt. br.
146-152			qtzite, purple, A. purple MS
152-158			ms, R.
158-160			ss, m., lt. gy., tight carb. A-gy ms
160-166			ms- st, gy.
166-178			ms, R-gy, hard ribs
178-189			ss, c., lt. br., A-gn ms, tight
189-191	Neg.		Ms, R-gn.

RECEIVED
SEP 20 1955

PROPERTY Desert Queen

LOCATION SW 4 SE 4 Sec. 10 T 22S R 14E SLM

CLAIM Ray Drilling Co. 12A

G.E.

HOLE NO. DC-10

TOTAL DEPTH 242'

DATE April 1, 1955

PROBED BY R. L. Baxter

DESCRIBED BY R. L. Baxter

N 48°W 700 ft. from SE cor. 12A, SW cor. claim 10, NE cor. 15 & SW cor. 9

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-12			Sd., F. gr., r-brn.
12-15			Sis, lt. grn., soft.
15-42			few strks lt. grn. soft sis. Sh, rust, soft, some silty
42-57			Sis, lt. grn., soft, grades to sh.
57-69			Sh, r & lt. grn., soft
69-72			Sh, soft, bleached bl.grn.
72-83			Ss, wh., figr., soft.
83-84			Sis, lt. grn., hd., calc.
84-86			Sh, dk. brn., soft, calc.
86-88			Sis, lt. grn., hd., calc.
88-103			Ss., figr., hd., sl. calc, lt. grn. f. sugary
103-113			Ss, t. gr., sugary, wh.
113-117			Sh., r & Bl., soft, calc.
117-121			Sis, r. & Bl, med. hd., calc.
121-128			Sh., r. & Bl., soft
128-175			Blk strks, 149-152 Ss., f. med.grn, sugary, soft,
175-177			Ss., v.lt gr., med. hd., olive grn.
177-188			Sh., bl.-grn., soft.
188-193			Sis. lt. grn., med. hd.
193-197			Ss., med. grn., gy.
197-203			Sh., bl.
203-221			Ss., gy., med. gr.
221-242			Sis, bl-grn., hd.

PROPERTY Desert Queen

LOCATION T 22S R 14E CLAIM D. Q. #8 G.E.

Sec. 15 NE4 NE4

HOLE NO. DC-11 TOTAL DEPTH 256' DATE 3-28-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

Contractor - Ray Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-5	Neg.		Sd., brn. F. gr.
5-15			Ss, wh. sugary, med. gr.
15-30			Sdy. sh., brn.
30-40			Sh., bl.
40-41			Congl. ss, w/hd. ss matrix & pebbles
41-42			ss, med. gr., wh-lt. grn., hd, w/small carbon particles
42-43			congl, pebbles w/ms & ss matrix
43-44			ss, med. gr., hd., lt. grn-wh. w/carbon specs
44-46			ms, purple
46-48			ms, green
48-50			ms, silty, purple
50-55			ss, f. gr. lt.grn., med-v. hd.
55-57			ms, grn., lower ft. silty
57-60			ms, red w/grn. patches
60-62			sis, r. & grn., hd. calc.
62-63			ms, r., some sis, calc.
63-69			sis, lt. gr., argill., calc. 0.5' silty ms @ 6.5'
69-69.5	Trace		ss, blk, f. gr., calc.
69.5-73			ss, f. gr., lt. grn., calc., med. hd.
73-85			ss, f. gr., wh., sugary, some ms, calc., med-crse sd. gr@bot'm
85-87			ss, arkosic, hd., sh. calc.
87-92			ms, grn., silty, hd. 0.5' grn. soft ms @ 90 & 91 ft.
92-94			SiSor v. f. gr. ss, grn.-lt. brn., hd.
94-99			ms, soft, grn & brn.

Plug

Core

RECEIVED
SEP 20 1955

PROPERTY Desert Queen

LOCATION NE¼ NE¼ Sec. 15 CLAIM D.W. #8 G.E.

T 22S R 14E

HOLE NO. DC-11 TOTAL DEPTH 256' DATE 3-29-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

Contractor - Ray Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
99-100			sis, lt. grn., hd.
100-108			sis, grn., hd & ms, brn, f. soft, in approx 0.5' thickness
108-109			ss, f. gr., wh, sh calc., hd. w/blk. specs
109-112			sis, lt. grn., hd.
112-119			ss, f. gr., hd., gy, sh calc, w/blk specs. Grains crse w/dph
119-120 re			ms, bl., soft.
120-121 co			sis, bl-grn, hd., tight
121-122			ms, silty, brn. soft.
122-131			ms, f.-grn. soft strk. blk v. t. gr. ss.
131-132			ms, r-brn, soft
132-135			ss f. gr., hd., dense w/blk specs. strk blk. v.f. gr. ss
135-144			ms, grn, soft
144-153 re			sis, grn, med. soft
153-171 co			ms, grn., soft
171-177			sis, hd., lt. grn.
177-195			ms, soft bl-grn. w/lt.grn. hd. sis.
195-216			ss, mod. gr., gy, sugary weakly cemented.
216-221			? no core recov. prob. same as above
221-230			Sis, lt. grn., hd. calc w/ some r. ms
230-238 re			ss, f. gr., brn to wh., hd to sugary & bleached v. soft & v. calc. @ bottom
238-244 co			ss, wh., hd., r.f. gr., calc w/blk strks. No recov. 236-238
244-256			sis, grn, hd, calc. w/brn. & grn. ms, calc.

PROPERTY Desert Queen

LOCATION SE4 NE4 Sec. 15 CLAIM D. Q. #5 G.E.

T 22S R 14E

HOLE NO. DC-12 TOTAL DEPTH 104' DATE 3-23-55

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-5			Sd., med. gr., tan; r. & grn. sh.
5-12 Plug			Sd., " " "
12-15			Ss, " " "
15-15.5		15% core Recov.	Congl. ss, siliceous, gy, v. hd. w/ chert pebbles
15.5-27.5			ss, gy-wh, soft & sugary
27.5-31			ss, wh, sugary, med. hd., med. gr.
31-34		40% Recov.	Argill. ss, blk., soft, f. gr.
34-37			" " , pur & wh, sft., f. gr.
37-38			ss, wh., med. hd., med. gr.
38-39			sdy. sh., soft, pur & grn.
39-49		65% Recov.	ss, lt. grn-grn., sft-med. hd. med-gr., sugary-compact
49-52 core			ss. wh " " , " " " " " " "
52-54			No recovery
54-72			ss, wh, med. hd, med.-f.gr.
72-75			sh & argill ss, med. hd.-soft, bl-grn.
75-84			ss, lt. grn., hd., compact
84-88			sdy. sh-argill. ss, r.&gy-grn., f. gr., calcareous
88-100			ss, med. f. gr., sug-compact lt. bl-grn to wh.
100-104			sdy. sh., f. gr., r. & bl. grn. hd-sft.

North - 50 ft. from Sec D.Q. 29 to DC-13

PROPERTY Desert Queen

LOCATION NW4 NW4 Sec. 13 CLAIM D.Q. #29 G.E.

T 22S R 14E

HOLE NO. DC-13 TOTAL DEPTH 561' DATE 3-26-54

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-6	Neg.		Tan siltstone
6-12			Tan mudstone
12-15			Gray siliceous siltstone
15-20			silty, gray mudstone
20-23			Gray siltstone
23-26			Gray mudstone
26-63			Siltstone & lavender mudstone
63-69			Lavender limestone
69-86			Lav., hd., silty shale
86-88			Lavender limestone
88-100			" shale & siltstone
100-118			Gray siltstone to f. gr. sandstone
118-120			Lavender siltstone
120-135			Gray silty shale
135-140			Gray med. grained ss.
140-155			Lavender shale & silty sh.
155-158			Wh. sis to f. gr. ss.
158-398			Sh. to sis, red and bl-grn. blk grains @ 398
398-410			F. gr. wh. ss, med-hd.
410-450			Sh. to sis, r. & bl-grn. strks gypsum 410-415
450-466			F. gr., w, soft sandstone
466-469			R. & bl-grn shale
469-483			F. gr., soft, wh. sandstone w/some gn. sdy shale
483-500			Wh. sugary ss, f.-med. gr. w/some gn sdy sh.

PROPERTY Desert Queen

LOCATION NW4 NW4 Sec. 13 CLAIM D. W. #29 G.E.

T 22S R 14E

HOLE NO. DC-13 TOTAL DEPTH 561' DATE 3-28-54

PROBED BY R. L. Baxter DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
500-502			Wh., f. gr. sugary ss.
502-503			Grn. ms w/some wh. ss.
503-504			wh. f. gr., sugary ss. w/strks of carbon
504-510			Wh, med. gr. ss w/carbon strks.
510-525			Gy, med-g.gr. ss w/carbon strks 512-513 congl ss 515-516 cse ss
525-528			Grn, silty ms w/f. gr. ss.
528-530			Silty ms-f. gr. ss blk
530-539			Gy-wh, f.-med. gr. ss, sug.-tight strks. carbon 536-538
539-540			Silty, grn ms.
540-542			Lt. grn, hd. sis.
542-543			B.-grn. ms.
543-548			Wh.-gy, f. gr., dense ss.
548-550			Bl & brn, ms
550-553			Bl, hd. sis.
553-558			Bl., med. hd., ms
558-560			B.-brn, hd., dense, sis.
560-561			Brn., med. hd. ms.

PROPERTY Desert Queen

LOCATION South 150' From NE center D.Q. #25 to

CLAIM D. Q. #25

G.E.

HOLE NO. DC-14

TOTAL DEPTH 570'

DATE 4-23-55

PROBED BY R. L. Baxter

DESCRIBED BY R. L. Baxter

H. B. Miller Drilling Co.

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-20	0 - 4		Sh. & silty sh. soft, lt. bl. & grn., calc.
28	"		Ss, vF, med. soft to hd., wh. calc.
32	"		Sh, lt. grn., soft, calc.
35	"		LS., Lav., hd.
110	"		Sh, st. lt. bl., pur., brn. calc. (2.0' LS, lt bl. @ 55 & 60)
120	"		ss, gy, VF, congl w/ch. pebbles
135	"		St, lt. grn., steel bl. med. soft.
138	"		ss/ Matrix cong; w/ch pebbles, gy w/f
300	"		sh & st., soft-med-hd. lt. bl, pur, brn. & grn mostly choc.
			brn. w/some pur towards bottom
320	"		ss, f., poorly cemented - med hd. wh.
328	"		sh., lt. bl-grn. bleached soft
370	"		silty sh. med-hd. purple-red also some soft sh.
			1ft lt. grn. ss @ 340
			2ft " " " @ 356
380	"		Sh. very pale bl-grn. med-soft
420	"		Sh & st, choc. brn. soft to hd. w/some lt grn-wh st.
430	"		Arg. st. hd. lt bl-grn.
435	"		silty sh. med. soft, choc. brn.
458	"		ss, vf pale grn. med. soft
496	"		Sh., choc. brn. lt. bl-grn. w/some st. more silty with depth
500	"		ss, lt. tan, v.f.
509	"		Ss, mf, gy, med. hd. sugary-poreous w/strks carbon, sl.calc.

RECEIVED
SEP 20 1955

PROPERTY Desert Queen

LOCATION South 150' From NE center D.Q. #25 to

CLAIM D.Q. #25

O.E.

HOLE NO. DC-14

TOTAL DEPTH 570'

DATE 4-23-55

PROBED BY R. L. Baxter

DESCRIBED BY R. L. Baxter

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
528	"		sh, silty sh & some st. hd., sl calc 1 ft. f.ss @ 510'
			bl. brn & lt. grn.
530	"		St, lt. grn. hd. sl. calc.
561	Core		Ss, Med. hd. F., sugary, gy, tan & lt grn, MF grained.
568	"		sh, lt. bl. grn & brn. hard, calc. 9.5' blk. sh @ 563'
570	"		St, hd, pale grn.

PROPERTY Desert Queen

LOCATION NW4 SW4 Sec. 13 CLAIM 44 O.E.

T 22S, R. 14E, SLM

HOLE NO. DC-15 TOTAL DEPTH DATE 7-14-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

N. 100' from S. center 44, N. center 45

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0-23	Neg.		ss, F. lt. brn, hard, calc.
23-25			chert cgl in ss, F, lt. brn, hard calc.
25-36			ss, F, lt. gray, friable, calc w/few hard ribs
36-52			sty, F, lt-med gray, med hard, calc.
59-65			sts, red, med hard, calc.
65-78			sts, lt. gy-med gr & lt gr, hard calc.
78-92			sts, lt gr, friable calc.
92-95			sts, red, friable, calc.
95-120			sts, lt gr, friable calc.
120-121			sts, lt. gr, friable, calc w/chert fra 1/16"
121-139			sts, lt. gr, friable, calc.
139-141			chert cgl up to ½" in sts, lt. gy, friable
141-146			sts, lt. gr, friable, calc.
146-150			sts, lt. gy, friable, calc.
150-159			sts, lt. gy & blue, friable w/ hard ribs, calc.
159-180			sts, red, friable, calc.
180-184			sts, lt gy friable calc, w/abundant r & blues
184-194			sts, red, friable, calc.
194-199			sdy sts, lt. gy, med hard, calc, w/blue sh.
199-207			sh, red, some blue sty.
207-228			sty ss, lt. gy friable- med hard calc.
228-230			sts, lt. gy friable, calc w/red sh.
230-234	Neg.		ss, F, lt. gy-gr, med hard, calc.

PROPERTY Desert Queen

LOCATION NW4 SW4 Sec. 13 CLAIM 44 O.E.

T 22S, R. 14E, SLM

HOLE NO DC-15 TOTAL DEPTH DATE 7-14-55

PROBED BY B. A. Hanson DESCRIBED BY B. A. Hanson

N. 100' from S. center 44, N. center 45

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
234-237			sty ss, f. lt. gy, friable, calc.
237-258			sh, red, sty
258-265			sh, lt. gr.
265-269			sh, red
259-267			sty ss, F, lt. gy, med fria w/hard ribs, calc.
267-300	started drilling H_2O		sty, ss, redish, friable w/some red sh.
300-332			sh, red, blue & gr.
332-341			No sample
341-490	caved at	483.6'	Sh, red, blue & gr.
490-492			ss, F-m, lt. gy, med hard calc.
492-496.5			ss, M-c, lt. gy, med hard calc w/blue gr sh buttons and organic stringers from 492.8' to 495.0'.
496.5-503.4			ss, M, lt. gy med hard, calc.
503.4-504.5			ss, M. lt. gy, med hard, calc w/few organic stringers
504.5-507		.01(4-scale B)	ss, M, ly gy, med hard calc, w/few organic stringers
507-510			ss, F-m, ly gy, med hard, calc.
510-512			ss, F-m, ly gy med hard calc w/few organic stringers to 100.5'
512-513.5			ss, F, lt, gy, med hard, calc.
513.5-516			ss, F-m, lt gy, med hard
516-519.5	2 ft. of core not recovered between 510' - 520'		ss, f-m, lt gy, med hard w/abundant organic stringers & frags.
519.5-		.03(4-scale Babbel)	ss, F, lt gn, med hard calc, sty.

RECEIVED
SEP 20 1955

PROPERTY Desert Queen

LOCATION 60' East to DC-1 CLAIM Long Shot #3 G.E.

HOLE NO. DC-1 TOTAL DEPTH 100' DATE 12-7-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	Gy. ss
10	0 - 4	"	Gy. ss, Rss 9-10'
20	0 - 4	"	Gy ss, Bl ms, Rss 17-20'
30	0 - 4	"	Whit ss
40	0 - 4	"	Whit ss
50	0 - 4	"	LB.ss, R ms 45-46
60	0 - 4	"	Bl ms
70	0 - 4	"	Whit ss
80	0 - 4	"	Whit ss
90	0 - 4	"	Bl. ms
100	0 - 4	"	R ms & Bl ms, hard ribs
105	0 - 4	"	" " " "

PROPERTY Desert Queen

LOCATION 60 ' North To D-1 CLAIM Long Shot #3 G.E.

HOLE NO. D-2 TOTAL DEPTH 100' DATE 12-7-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	Whit ss
10	0 - 4	"	" ", R ms 9-10'
20	0 - 4	"	" " GYms 10-11, Rms 16-17
30	0 - 4	"	" " R ss 21-22 & 24-26
40	0 - 4	"	Gy ss, R ms & Bl ms - 35-39
50	0 - 4	"	Whit ss, Bl ms 48-50
60	0 - 4	"	" "
70	0 - 4	"	" "
80	0 - 4	"	" "
90	0 - 4	"	Bl ms
100	0 - 4	"	R ss & ms 94-100

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PROPERTY Desert Queen

LOCATION 60' North To SW corn/April #2 CLAIM Long Shot #3 G.E.

HOLE NO. D-3 TOTAL DEPTH 100' DATE 12-7-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ss
10	0 - 4	"	LB ss
20	0 - 4	"	R ss & R ms, Whit ss 24-34
30	0 - 4	"	LB ss, R ss 34-36, Blms 38-39
40	0 - 4	"	Whit. ss
50	0 - 4	"	Whit. ss
60	0 - 4	"	Whit. ss
70	0 - 4	"	Whit. ss
77	0 - 4	"	Whit. ss
82			Whit. ss
88			Bl ms
98			Bl ms & R ms
100			LB ss

PROPERTY Desert Queen

LOCATION 40' South To D-1 CLAIM Long Shot #3 G.E.

HOLE NO. D-4 TOTAL DEPTH 90' DATE 12-7-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	LB ss, R ss 0-2'
10	0 - 4	"	R ms & Gy ms
20	0 - 4	"	LB ss, R ss 22-23
30	0 - 4	"	LB ss
40	0 - 4	"	LB ss, R ms, Gy ms 34-38
50	0 - 4	"	Bl ms, some R; whit. ss 38-42
60	0 - 4	"	Whit ss
70	0 - 4	"	" "
80	0 - 4	"	" "
85	0 - 4	"	" "
90			LR ss
			Water

PROPERTY Desert Queen

LOCATION S 50 W 100' To D - 2 CLAIM Long Shot #3 G.E.

HOLE NO. D - 5 TOTAL DEPTH 100' DATE 12-7-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	4 - 4	Nil	R ss, 0-2'; LB ss 2-9'
10	4 -4	"	Gy ms, R ms 14-17
20	4 - 4	"	Whit. ss
30	4 - 4	"	Whit. ss, R ms 37-40
40	4 - 4	"	Gy ss, Bl ms 40-46
50	4 - 4	"	" "
60	4 - 4	"	" "
70	4 - 4	"	" "
80	4 - 4	"	" "
90	4 - 4	"	Bl ms
100			" "

PROPERTY Desert Queen

LOCATION N60E 100' To D - 5 CLAIM Long Shot #3 G.E.

HOLE NO. D - 6 TOTAL DEPTH 100' DATE 12-8-54

PROBED BY ~~C. H. Smith~~ DESCRIBED BY ~~Lippoth & Wein Log~~

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	LB ss, R s 0-2
10	0 - 4	"	Gy ss, Bl ms 19-21
20	0 - 4	"	Gy ms, R ms 21-22, Gy ss 22-26
30	0 - 4	"	" "
40	0 - 4	"	Whit ss
50	0 - 4	"	" "
60	0 - 4	"	" ", Bl ms 64-76
70	0 - 4	"	Gy ss
80	0 - 4	"	R ms & Bl ms
90	0 - 4	"	Bl ms
100			Water

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PROPERTY Desert Queen

LOCATION N 62 E 70' To SW Corn/April #2 CLAIM Long Shot #3 G.E.

HOLE NO. D-7 TOTAL DEPTH 100' DATE 12-8-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ss 0-2'
10	0 - 4	"	LB ss
20	0 - 4	"	LB ss, R ss & R ms 17-22
30	0 - 4	"	LB ss
40	0 - 4	"	Bl ms
50	0 - 4	"	LB ss, R ms 38-41
60	0 - 4	"	" "
70	0 - 4	"	" "
80	0 - 4	"	" ", Bl ms 78-82
90	0 - 4	"	Gy ms, whit. ss 82-86
100	0 - 4	"	Bl ms

PROPERTY Desert Queen

LOCATION North 100' To D-7 CLAIM Long Shot #3 G.E.

HOLE NO. D-8 TOTAL DEPTH 100' DATE 12-8-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ss 0-2
10	0 - 4	"	LB ss
20	0 - 4	"	" ", R ms 10-12
30	0 - 4	"	" "
40	0 - 4	"	R ss & R ms, LB ss 30-34
50	0 - 4	"	Bl ms, LB ss 40-44
60	0 - 4	"	Gy ss
70	0 - 4	"	" "
80	0 - 4	"	" "
90	0 - 4	"	Bl ms, Gy ss 80-84
100	0 - 4	"	Bl ms & R ms

PROPERTY Desert Queen

LOCATION N 23 E 80' To NE corn/ D.Q. 2 CLAIM Long Shot #3 G.E.

HOLE NO. D-9 TOTAL DEPTH 120' DATE 12-8-55

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ss & R ms 0-2
10	0 - 4	"	Gy ms, Rss & Gy ss 2-4
20	0 - 4	"	" "
30	0 - 4	"	R ms & Gy ms
40	0 - 4	"	" "
50	0 - 4	"	Bl ms
60	0 - 4	"	" ", R ms 50-52
70	0 - 4	"	" ", LR ms 77-78
80	0 - 4	"	" ",
90	0 - 4	"	" "
100	0 - 4	"	Gy ss
106	0 - 4	"	Bl ms
120			" "

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SEP 20 1955

PROPERTY Desert Queen

LOCATION N 47 E 175' To D-9 CLAIM Long Shot #3 G.E.

HOLE NO. D-10 TOTAL DEPTH 100' DATE 12-8-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Logs

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ss & R ms 0-7
10	0 - 4	"	Gy ss
20	0 - 4	"	" ", Bl ms 12-16
30	0 - 4	"	LB ss, R ms & Bl ms 21-24
40	0 - 4	"	Gy ms, R ms 30-36
50	0 - 4	"	Gy ss & Gy ms
60	0 - 4	"	Gy ms
70	0 - 4	"	L R ms
80	0 - 4	"	Gy ms
90	0 - 4	"	Gy ms & R ms
100	0 - 4	"	LR ms

PROPERTY Desert Queen

LOCATION S 80 W 130' To DC - 6 CLAIM Long Shot #3 G.E.

HOLE NO. D - 11 TOTAL DEPTH 100' DATE 12-9-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Log

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	6 - 4	Nil	R ss 0-5
10	6 - 4	"	Bl ms
20	6 - 4	"	R ms Bl ms 10-18
30	6 - 4	"	Gy ss
40	6 - 4	"	" "
50	6 - 4	"	Bl ms, Gy ss 40-48
60	6 - 4	"	Whit ss
70	6 - 4	"	Whit ss
80	6 - 4	"	Whit ss
90	6 - 4	"	Whit ss
100	6 - 4	"	Bl mss

PROPERTY Desert Queen

LOCATION South 110' To D-11 CLAIM Long Shot #3 G.E.

HOLE NO. D-12 TOTAL DEPTH 100' DATE 12-8-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	6 - 4	Nil	R ss 0-4
10	6 - 4	"	Bl ms
20	6 - 4	"	" " R ms 14-16
30	6 - 4	"	LB ss, R ms 18-24
40	6 - 4	"	Gy ms, LB ss 30-34
50	6 - 4	"	Gy ss
60	6 - 4	"	" "
70	6 - 4	"	" "
80	6 - 4	"	" "
90	6 - 4	"	Bl ms, R ms 83-87
100			Bl ms

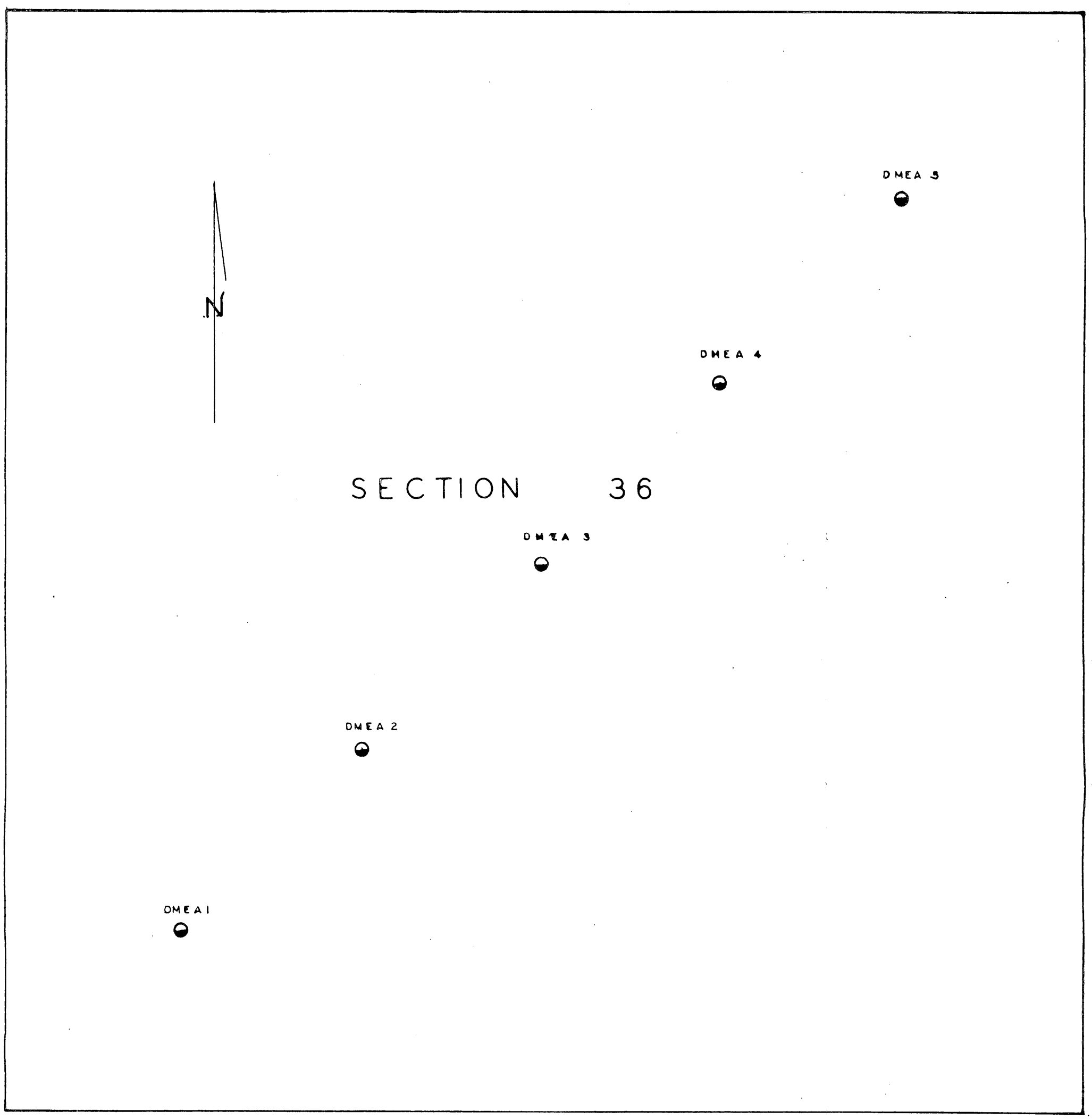
PROPERTY Desert Queen

LOCATION N 23 E 30' To DC-1 CLAIM Long Shot #3 G.E.

HOLE NO. D - 13 TOTAL DEPTH 100' DATE 12-8-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ms & Bl ms 0-4
10	0 - 4	"	R ss
20	0 - 4	"	Bl ms & R ss
30	0 - 4	"	R ss
40	0 - 4	"	LR ss
50	0 - 4	"	R ms & R ss
60	0 - 4	"	Bl ms
70	0 - 4	"	Bl ms
80	0 - 4	"	"
90	0 - 4	"	"
92			R ms
100			Bl ms

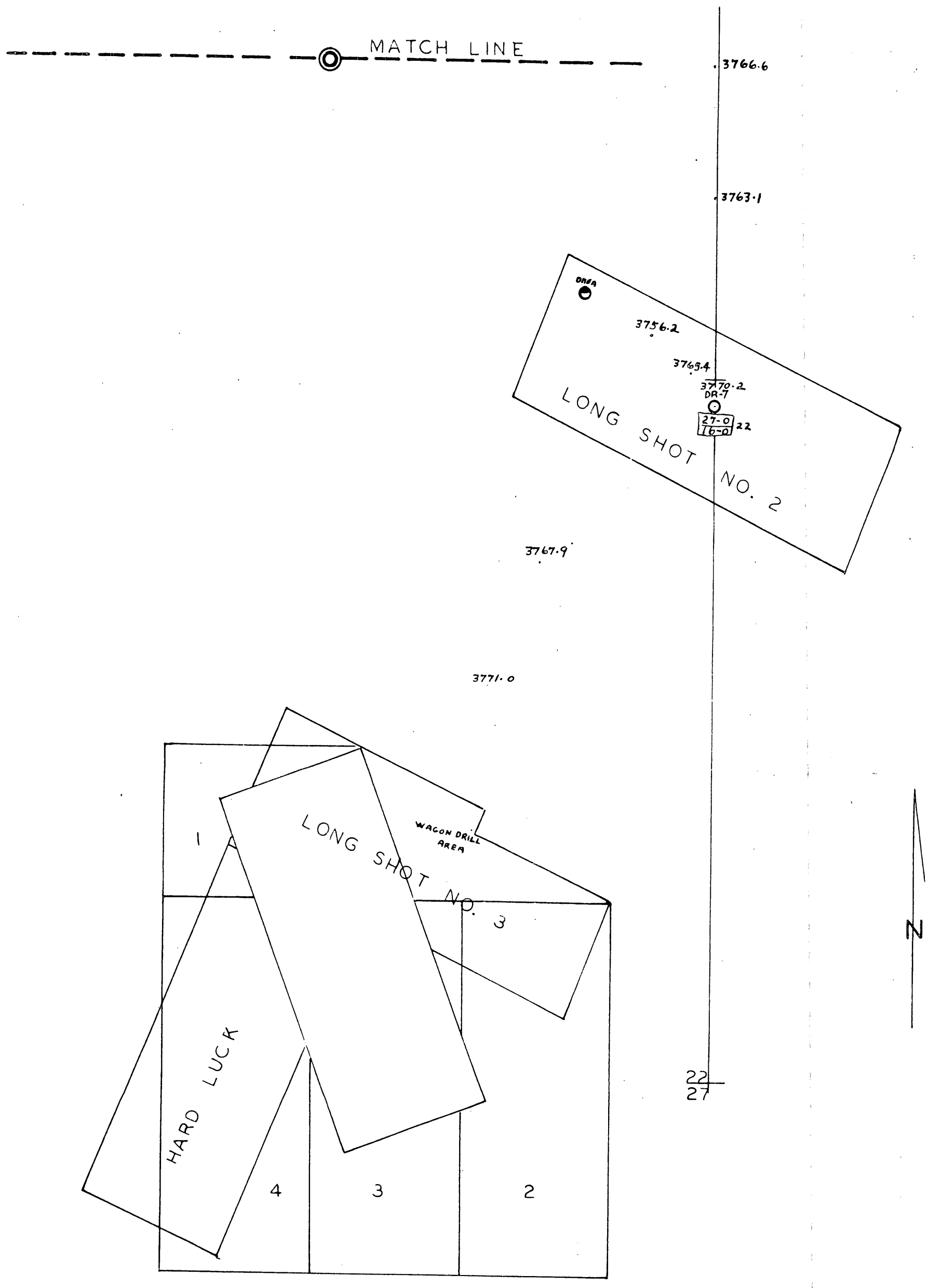


DMEA
PROPOSED DRILL HOLE

VITRO MINERALS CO.
DESERT QUEEN
SCHOOL SECTION
SECT. 36, T.21S., R.14E. SLM
SCALE 1" = 500'
PLATE F

DATE 8 13 55 BY CHS

RECEIVED
SEP 20 1955



○ DRILL HOLE

◒ PROPOSED HOLES

VITRO MINERALS COMPANY

DESERT QUEEN

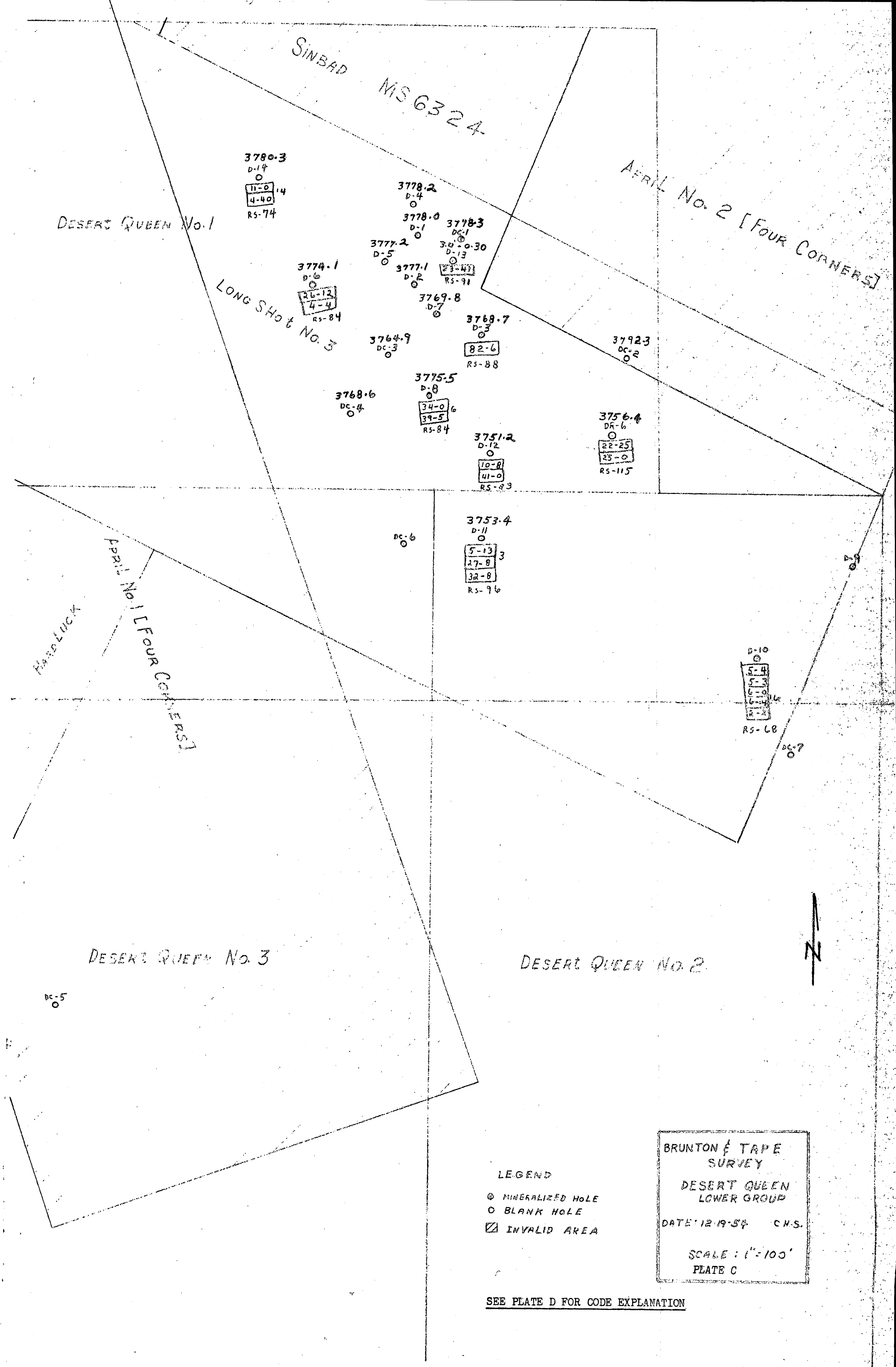
LOWER GROUP

SCALE 1" = 400'

T. 22 S., R. 14 E. SLM

PLATE G

DATE 8/14/55 BY CHS



LEGEND

⊗ MINERALIZED HOLE
O BLANK HOLE
▨ INVALID AREA

BRUNTON & TAPE SURVEY

DESERT QUEEN LOWER GROUP

DATE: 12-19-54 C.H.S.

SCALE: 1" = 100'

PLATE C

SEE PLATE D FOR CODE EXPLANATION

PROPERTY Desert Queen

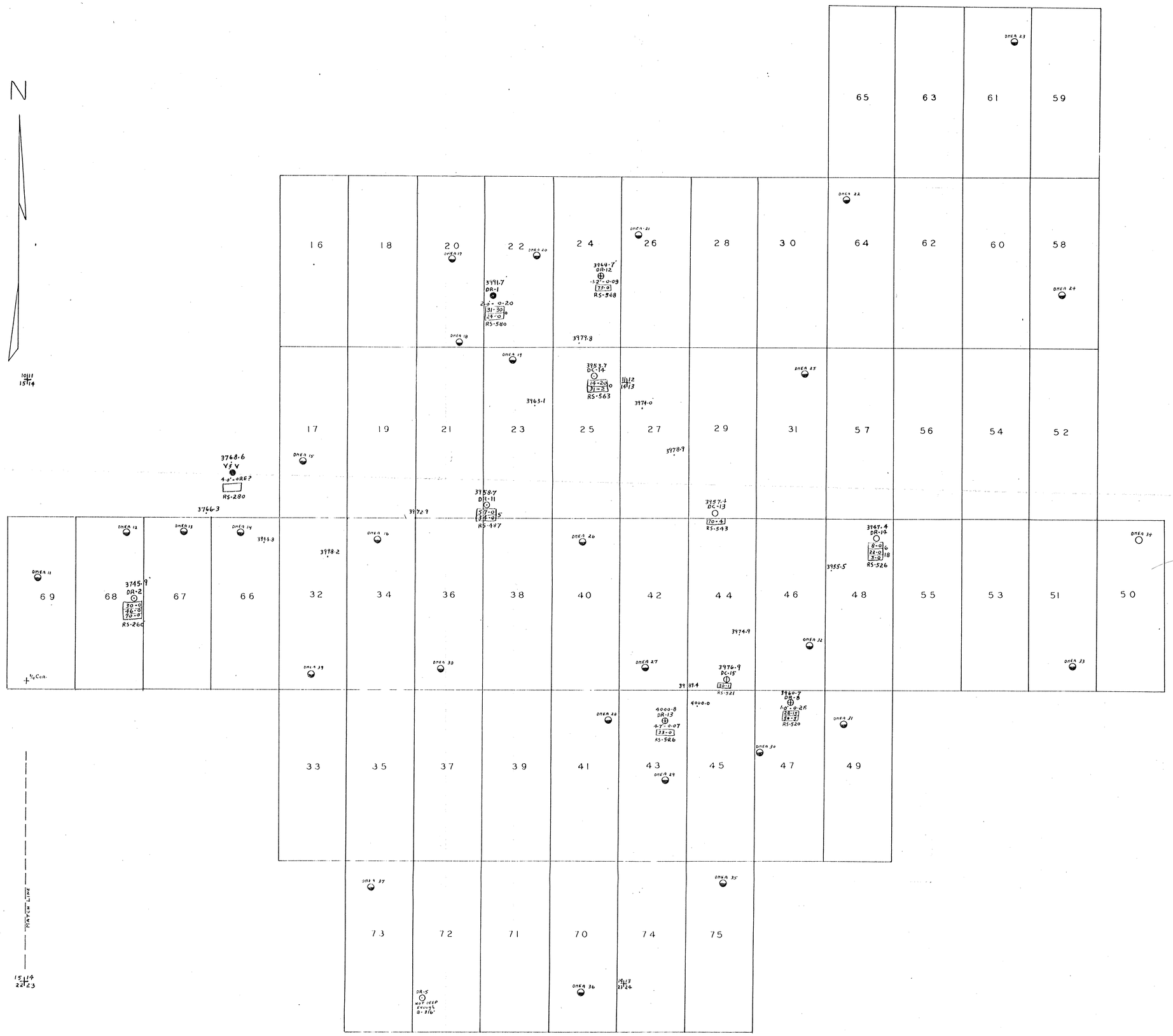
LOCATION S 80 E 300' To DC-1 CLAIM Long Shot #3 G.E.

HOLE NO. D-14 TOTAL DEPTH 106' DATE 12-9-54

PROBED BY C. H. Smith DESCRIBED BY Lippoth & Wein Log

DEPTH	PROBE ASSAY	SAMPLE ASSAY	LITHOLOGY
0	0 - 4	Nil	R ms & Bl ms 0-7
10	0 - 4	"	LB ss
20	0 - 4	"	R ms
30	0 - 4	"	R ms & Bl ms
40	0 - 4	"	Gy ms, LB ss 30-34
50	0 - 4	"	" "
60	0 - 4	"	" "
70	0 - 4	"	No cuttings
80	0 - 4	"	R ms
90	0 - 4	"	Bl ms
100	0 - 4	"	Bl ms
106	0 - 4	"	"
			Water

RECEIVED
SEP 20 1955



EXPLANATION

4000.0'	GROUND ELEVATION
DR-13	HOLE NUMBER
○	HOLE LOCATION
4.1'-0.07	ORE THICKNESS & GRADE
33-0	SS AND BL. MS THICKNESS
RS-526	BOTTOM OF SS
●	ORE HOLE
⊕	MINERALIZED HOLE
⦶	TRACE HOLE
○	BLANK HOLE
DMEA ●	PROPOSED EXPLORATION HOLE

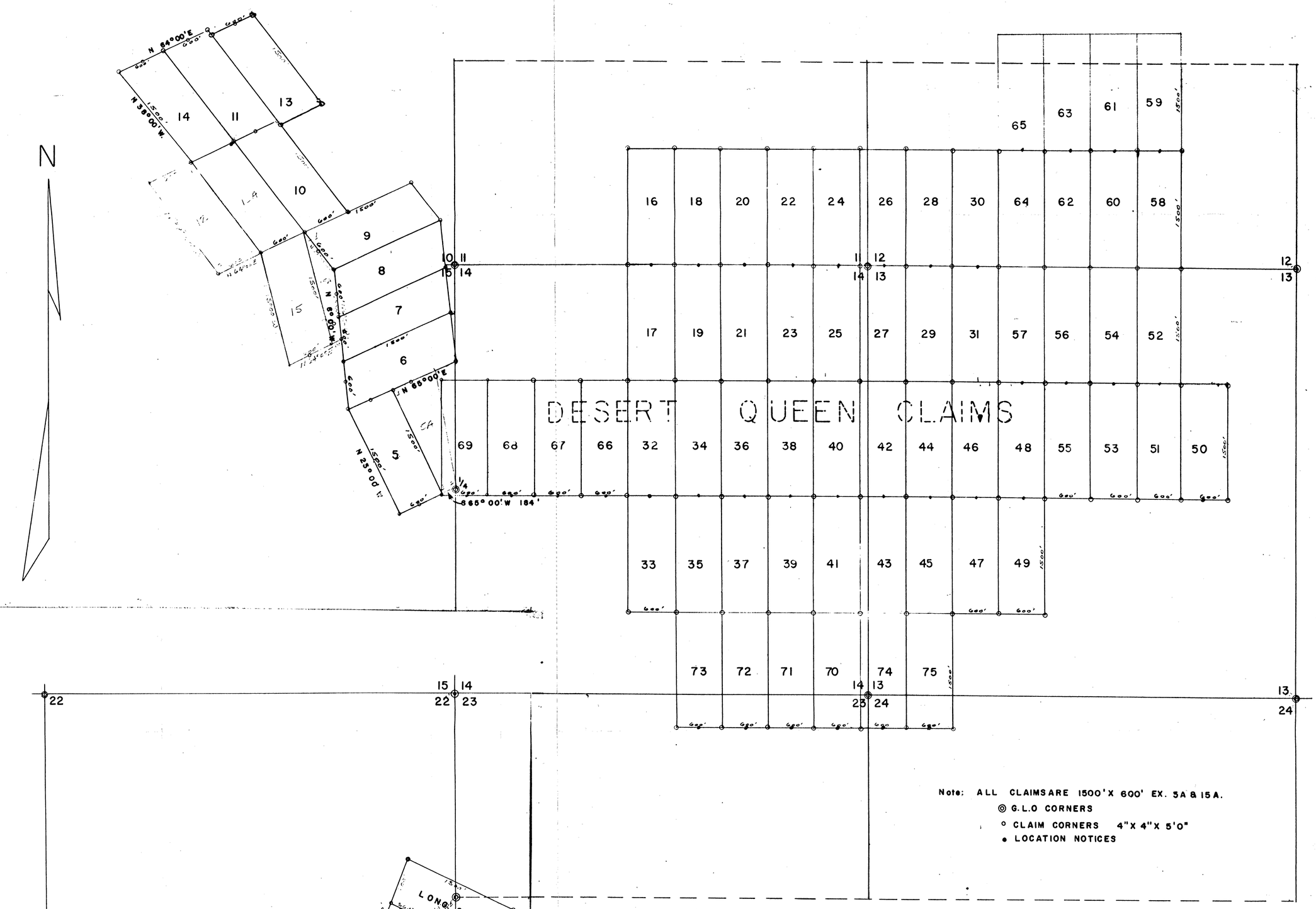
VITRO MINERALS COMPANY

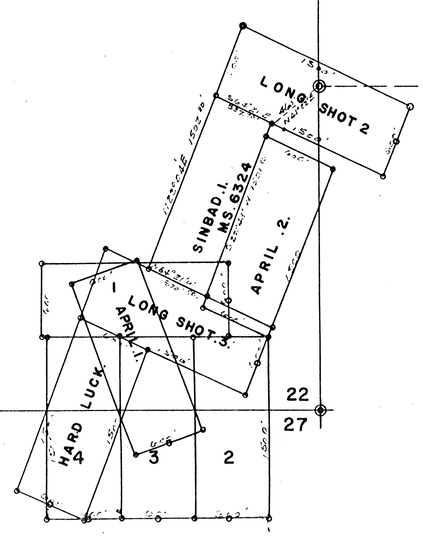
DESERT QUEEN
DEEP GROUP CLAIMS
T.22 S. R.14 E. S.L.M.

SCALE 1" = 400'

PLATE D

DATE 8/12/55 BY CHS





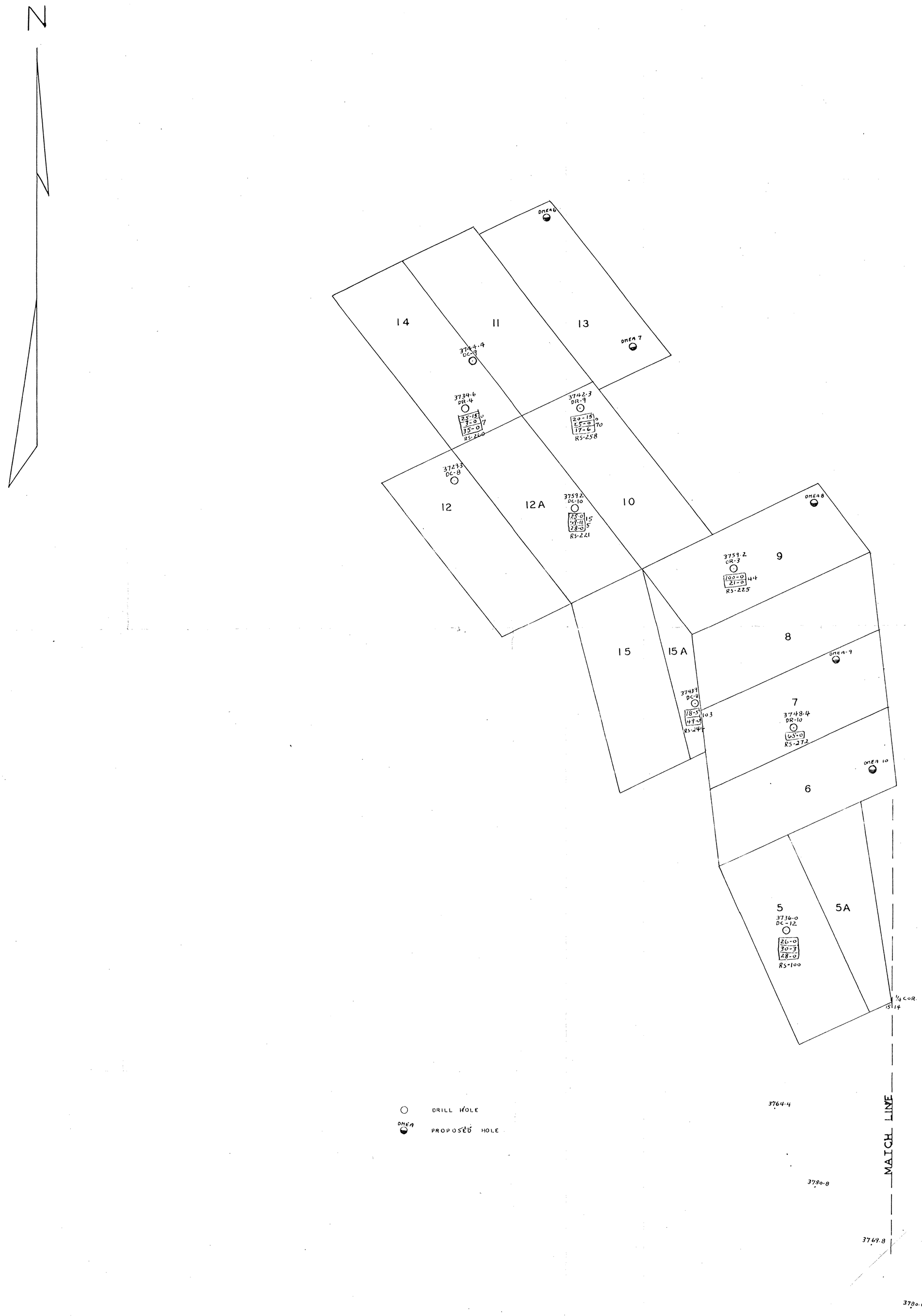
TOWNSHIP 22 SOUTH, RANGE 14 EAST, S.L.M.

EMERY COUNTY, UTAH.

SCALE 1" = 600'

SURVEY BY JOHN BENE, C.E.
1050
PRICE, UTAH.

SEPT. 20, 1954.
Revised.
Nov. 19, 1954.
PLATE A



VITRO MINERALS COMPANY

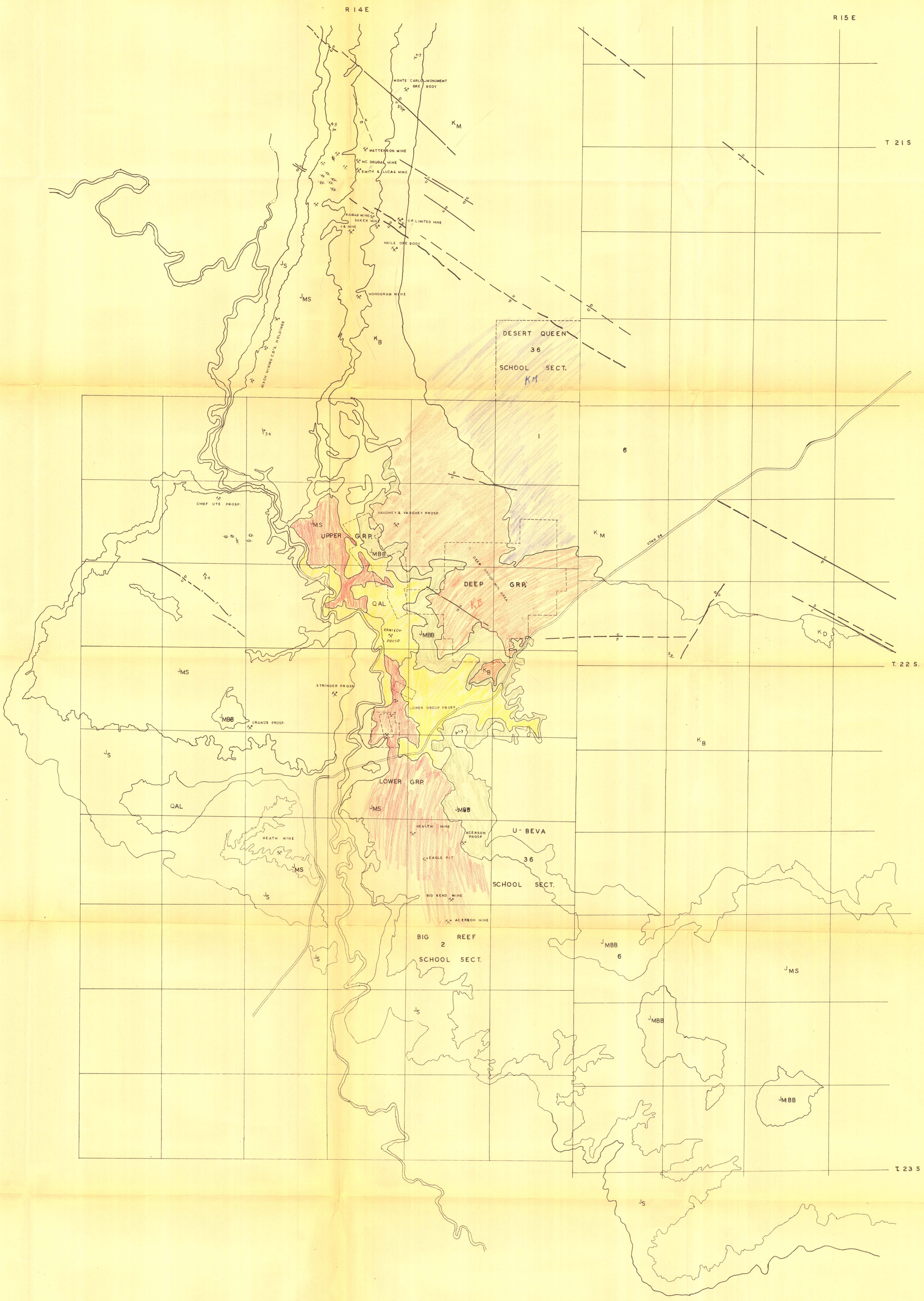
DESERT QUEEN
UPPER GROUP

T.22S., R.14E.SLM

SCALE 1" = 400'

PLATE B

DATE 8/13/55 BY CHS



QAL - ALLUVIUM
K_M - MANCOS SH.
K_D - DAKOTA SS.
K_B - BURRO CANYON SS.
J_{MBB} - BRUSHY BASIN SH.
J_{MS} - SALT WASH SS.
J_S - SUMMERVILLE SH.

VITRO MINERALS CORP.
GEOLOGIC MAP
DESERT QUEEN URANIUM COMPANY

SCALE = 1" - 2000'
PLATE E
DATE 8/2/55 DRAWN BY CHS