M-d

GOLDFIELD CONSOLIDATED #9 8-8
SE/SW Sec 11-T29N-R21W, Mohave Co.

County Mohave

Area Detrital Valley

Lease No.

Well Name GOLDFIELD CONSOLIDATED #9 Fed

Location SE/SW Sec 11 Twp 29N Range 21W Footage

Elev 1781 Gr KB Spud Date 11-11-58 Completed Abandon 11-30-58 Total Depth 956

Contractor Boyles Bros.

Drilled by Rotary
Cable Tool

| Casing Size | Depth | Cement |
|---|---|---|
| | | |
| | | |

Production Horizon

Initial Production

REMARKS Top Salt 466'

Qal - 0
T. older Alluvium 86
Muddy Crk 296
Salt 466
T.D. in salt 956

Elec Logs

Applic. to Plug Plugging Record Completion Report

Sample Log
Sample Descript.
Sample Set
Core Analysis
DSTs

Water well accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

Filing Receipt Dated Well Book Plat Book

Loc. Plat Dedication

API No.

Permit Number — Date Issued

8-8

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11-29N-21W.
NE SE SW

# DRILL LOG

## GOLDFIELD, DETRITAL VALLEY SALINE - HOLE NO. 9

Location: SE¼, SW¼ Section 11, Township 29N., Range 21W., Gila and Salt River Meridian

Elevation: 1781 Feet

Inclination: Vertical  Depth: 956 Feet

Type of Drills: Failing 1500 Rotary and Boyles-Joy 22 Diamond Drill

Date Started: November 11, 1958  Date Completed: November 30, 1958

Logged by: William H. Hisle

| Feet From - To | Core Recovery % | Bit Type & Size | Description and Remarks |
|---|---|---|---|
| 0 - 86 | — | 6¼" Rock | Recent Valley Fill, unconsolidated, not cored, Set 5" pipe to 86'. |
| 86 - 296 | — | 4¾" Rock | Conglomerate with sandstone lenses, not cored. |
| 296 - 466 | — | 4¾" Rock | Clay with Anhydrite and minor Gypsum. |
| 466 - 476 | 40 | NX - D.D. | Clay, with Anhydrite and Halite. Set 462' of 3" pipe as casing. |
| 476 - 486 | 90 | NX - D.D. | Halite, ±15% Anhydrite and Clay |
| 486 - 488 | 90 | NX - D.D. | Halite, ±5% Clay |
| 488 - 516 | 92 | NX - D.D. | Halite, ±15% Anhydrite and Clay |
| 516 - 518½ | 90 | NX - D.D. | Halite, ±5% Clay |
| 518½ - 528½ | 95 | NX - D.D. | Halite, ±10% Clay and Anhydrite |
| 528½ - 535 | 95 | NX - D.D. | Halite, ±5% Clay |
| 535 - 536 | 95 | NX - D.D. | Halite, ±10% Clay, minor Anhydrite |
| 536 - 539 | 100 | NX - D.D. | Halite, ±20% Anhydrite and Clay |
| 539 - 544 | 100 | NX - D.D. | Halite, ±1% Clay |
| 544 - 546 | 100 | NX - D.D. | Halite, ±5% Clay |
| 546 - 556 | 100 | NX - D.D. | Halite, ±10% Anhydrite and Clay |

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8-8.

Page 2. Drill Log - Hole No. 9

| Feet From - To | Core Recovery % | Bit Type & Size | Description and Remarks |
|---|---|---|---|
| 556 - 566 | 100 | NX - D.D. | Halite, ±5% Clay, 3" Clay seam at 562' |
| 566 - 575 | 100 | NX - D.D. | Halite, ±15% Clay |
| 575 - 576 | 100 | NX - D.D. | Halite, ±30% Clay and Anhydrite |
| 576 - 584 | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 584 - 585 | 100 | NX - D.D. | Halite, ±40% Clay and Anhydrite |
| 585 - 586 | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 586 - 588 | 100 | NX - D.D. | Halite, ±10% Clay |
| 588 - 601 | 100 | NX - D.D. | Halite, ±5% Clay |
| 601 - 603 | 100 | NX - D.D. | Halite, ±1% visible impurities |
| 603 - 613 | 100 | NX - D.D. | Halite, ±10% Clay, 4" Clay seam at 603' |
| 613 - 623 | 100 | NX - D.D. | Halite, ±5% Clay |
| 623 - 626 | 100 | NX - D.D. | Halite, ±20% Anhydrite and Clay |
| 626 - 633 | 95 1' | NX - D.D. | Halite, ±20% Clay, minor Anhydrite |
| 633 - 662 | 100 | NX - D.D. | Halite, ±10% Clay |
| 662 - 665 | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 665 - 666 | 100 | NX - D.D. | Halite, ±30% Clay and Anhydrite |
| 666 - 671 | 100 | NX - D.D. | Halite, ±20% Clay, minor Anhydrite |
| 671 - 686 | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 686 - 697 | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 697 - 708 | 100 | NX - D.D. | Halite, ±10% Clay, minor Anhydrite |
| 708 - 713 | 100 | NX - D.D. | Halite, ±5% Clay |
| 713 - 724 | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 724 - 726 | 90 2' | NX - D.D. | Halite, ±50% Clay and Anhydrite |
| 726 - 728 | 90 2" | NX - D.D. | Halite, ±20% Clay and Anhydrite |

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8-8.

.age 3. Drill Log - Hole No. 9

| Feet From - To | Core Recovery % | Bit Type & Size | Description and Remarks |
|---|---|---|---|
| 728 - 730½ | 100 | NX - D.D. | Halite, ±15% Clay, minor Anhydrite |
| 730½ - 733 | 100 | NX - D.D. | Halite, ±5% Clay |
| 733 - 737 | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 737 - 738 | 100 | NX - D.D. | Halite, ±5% Clay |
| 738 - 741 | 90 3' | NX - D.D. | Halite, ±10% Clay |
| 741 - 756 | 95 15' | NX - D.D. | Halite, ±5% Clay |
| 756 - 758 | 100 | NX - D.D. | Halite, ±10% Clay |
| 758 - 769 | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 769 - 774 | 100 | NX - D.D. | Halite, ±10% Clay |
| 774 - 776 | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 776 - 782½ | 85 6½' | NX - D.D. | Halite, ±5% Clay |
| 782½ - 783½ | 85 1' | NX - D.D. | Halite, ±10% Clay |
| 783½ - 788½ | 90 5' | NX - D.D. | Halite, ±5% Clay |
| 788½ - 792 | 100 | NX - D.D. | Halite, ±10% Clay |
| 792 - 799 | 95 3' | NX - D.D. | Halite, ±5% Clay |
| 799 - 800½ | 95 1½' | NX - D.D. | Halite, ±10% Clay |
| 800½ - 801 | 95 ½' | NX - D.D. | Halite, ±1% visible impurities |
| 801 - 805 | 95 4' | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 805 - 806 | 90 1' | NX - D.D. | Clay, ±30% Halite and Anhydrite |
| 806 - 808 | 100 | NX - D.D. | Halite, ±20% Anhydrite and Clay |
| 808 - 809 | 100 | NX - D.D. | Halite, ±10% Clay, minor Anhydrite |
| 809 - 815½ | 100 | NX - D.D. | Halite, ±20% Anhydrite and Clay 3" Clay seam at 809½' |
| 815½ - 816 | 90 ½' | NX - D.D. | Halite, ±1% visible impurities, 2" Clay seam at 816' |

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8-8.

Page 4. Drill Log - Hole No. 9

| Feet From - To | Core Recovery % | Bit Type & Size | Description and Remarks |
|---|---|---|---|
| 816 - 817 | 95 | NX - D.D. | Halite, ±15% Clay |
| 817 - 818 | 95 | NX - D.D. | Halite, ±10% Clay |
| 818 - 819 | 95 | NX - D.D. | Halite, ±5% Clay |
| 819 - 820 | 90 | NX - D.D. | Halite, ±1% visible impurities |
| 820 - 822 | 95 | NX - D.D. | Halite, ±20% Anhydrite and Clay |
| 822 - 826 | 95 | NX - D.D. | Halite, ±15% Clay and Anhydrite<br>4" Clay seam at 824' |
| 826 - 830½ | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 830½ - 835 | 100 | NX - D.D. | Halite, ±5% Clay |
| 835 - 836 | 100 | NX - D.D. | Halite, ±10% Clay and Anhydrite |
| 836 - 839½ | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 839½ - 841 | 100 | NX - D.D. | Anhydrite, minor Clay and Halite |
| 841 - 846 | 100 | NX - D.D. | Halite, ±30% Anhydrite and Clay |
| 846 - 876 | 95 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 876 - 881 | 95 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 881 - 884 | 95 | NX - D.D. | Halite, ±10% Clay and Anhydrite |
| 884 - 887 | 95 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 887 - 892 | 100 | NX - D.D. | Halite, ±10% Clay and Anhydrite |
| 892 - 899 | 100 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 899 - 902 | 100 | NX - D.D. | Halite, ±10% Clay and Anhydrite |
| 902 - 909½ | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite<br>4" Clay seam at 906' |
| 909½ - 912 | 95 | NX - D.D. | Halite, ±10% Clay and Anhydrite |
| 912 - 926 | 100 | NX - D.D. | Halite, ±15% Clay and Anhydrite |
| 926 - 930 | 95 | NX - D.D. | Halite, ±20% Clay and Anhydrite |
| 930 - 946 | 95 | NX - D.D. | Halite, ±15% Clay and Anhydrite<br>4" Clay seam at 944' |
| 946 - 956 | 15 | NX - D.D. | Halite ± 5% Clay |

T.P.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: Salt Deposits | Date: July 16, 1959

District: Gold Basin, Mohave County | Engineer: Travis P. Lane Dep. Mol. Res.

Subject: Information obtained in Kingman

I visited Mr. Bert Coleman, Mgr. of the Mohave County Chamber of Commerce in Kingman on July 8th concerning possible miner-cattleman conflict of interest on grazing ranges; and at the same time I inquired re the salt deposit exploration being conducted by Goldfield Consolidated Mining Co. in the region near Temple Bar. Mr. Coleman said that he had visited the area following receipt of a letter addressed to the Chamber of Commerce by Mr. H. Hisle of Goldfield Consolidated Mining Co. He showed me the letter, dated Feb. 2, 1959, and I summarized it as follows:

Goldfield Consolidated Mining Co. is a Wyoming Corporation with offices at :

No. 1 Montgomery St., San Francisco, Calif. and 206 N. Virginia St., Reno, Nevada

Property: Early in 1957 the Company obtained a lease on 24 sections (15,360 acres) of potential salt bearing ground. The leasing agency was the Lake Mead National Recreation Area administered by the National Park Service. The center of the area is approximately 55 miles southeasterly from Boulder City -- 40 miles on Highway 93 and then 15 miles on the Temple Bar road. It is about the same distance northerly from Kingman.

To date 11 holes have been drilled for a total footage of 10,800 feet. 8 of the holes have partially delinated a salt deposit of high purity with length of 3 miles, width of at least 1 mile and an assured thickness of 500 feet. Additional drilling is planned. Salt recovery by brining and solar evaporation is proposed.

The letter stated that a market for 400 to 500 TPD exists at Henderson, Nevada, with Stauffer Chemical Co. accounting for the bulk of this use. That Company presently has a long term contract with the Leslie Salt Co. of Calif. to supply its needs. The letter also spoke of 2 firms having prospective plans for plants near Henderson to produce perchlorates for use in solid fuels. Also, the Hooker Electro-Chemical is reported to be considering the construction of a large chlorine plant in the Salt Lake City area.

The purpose of the letter was to apprise the Chamber of Commerce of the Company's favorable opinion as to the long range outlook for a regional salt industry and to enlist the Chamber's support in publicising the advantages for plants, such as Hooker Electro-Chemical proposes, to locate near Boulder City because this location would be not far distant from large users on the west coast. Cheap Hoover dam power was cited as another attraction.

Mr. Coleman said he understood that Phelps Dodge was associated with Goldfield in the venture but said he could not vouch for the authenticity of this information.

Have spent (to date) over -200,000

8-8

June 23, 1959

Mr. D.R.H. Mahaney
11910 Laurie Lane
Houston, 24, Texas

Dear Mr. Mahaney:

In regard to your inquiry of June 20th about the geology, production and consumption of NaCl in Arizona:

As of September, 1959, Guildfield Consolidated (now merged into American Chrome Company) had drilled extensive halite beds in the Detrital Wash area near Seligman's Landing opposite the mouth of the Virgin River at Lake Mead. A halite thickness exceeding 300 feet reportedly was drilled. A pilot plant had been constructed. Work had been discontinued through the summer, and our field engineer found no sign of recent activity when in the area in March of this year.

Other parties reportedly are interested in the playa beds of this area.

The enclosed photocopy of a 1929 article by J. H. [illegible] covers other areas from which no recent production is known to us.

Other references are:

Phalen, W. C., Salt Resources of the U.S., U.S.G.S Bull. 649, 1919

Young, G. J. Prehistoric mining for rock salt at Camp Verde; Eng.Min.Jour., vol 114, p. 13, 1927.

Consumption in Arizona has increased with the recent commencement of a plant using a salt-coke segregation process for extraction of copper from oxide ores. Another development is a planned pulp mill to be built by the largest lumber company in Arizona. 1958 shipments of evaporated and rock salt from U. S. producers to Arizona were 14,000 and 13,000 short tons respectively.

If we can be of further service, please do not hesitate to call on us.

Very truly,

[illegible]
[illegible]
Dept of Nat Re[illegible]

Enc
Wily

COPY

[redacted]



Thursday: Visited Detrital Wash area near Bonnelli's Landing. Goldfield Consolidated has drilled salt beds here and has constructed a pilot evaporative plant which includes vats and pumping system -- pumping water into a drill hole and returning brine to 6 evaporation vats. No one was present at the time of visit. I drove on to the Temple Bar ranger station where I interviewed Mr. Sutherland, the ranger. He described the work of Goldfield Consolidated and said work was suspended at the beginning of summer and was expected to resume about now. Mr. Heisel directed the work for the company. T.F.LANE - WR - 9-28-59

The merger of Goldfield Consolidated Mines Company and American Chrome Company has been approved by stockholders. Two shares of Goldfield stock will be exchanged for each share of American Chrome.

Taken from MINING WORLD, January, 1960, p 68



Visited site of the Goldfield Consolidated salt project in Detrital Wash near Temple Bar on Lake Mead. There has been no recent company activity.

Visited Mr. Sutherland, the ranger stationed at Temple Bar. He reported that he had just received notice from the Park Service of an application for a sodium lease in Detrital Wash entered by a Mr. L. P. Cortin, Jr. The new lease application appears to overlap in some places the ground of the Goldfield Consolidated lease hold.

T. F. LANE - WR-3-10-60

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Mr. W. H. Risle was in relative to the salt well drilling his company, the Goldfield Consolidated Mines Company (American Chrome Co. of Montana). They have drilled 7 holes in the halite area at a place 7 miles south of Bonelli Landing, northwestern Mohave County. Their plans are for utilization of the deposit ore, as yet, are tenative dependent upon the selection of a proper mining method.

LEWIS A. SMITH-WR 4-4-58
Geologist Dept. of Natural Resources

Mr. W. H. Risle, engineer in charge of Gold Field Consolidated Mines (American Chrome Co. of Montana) report that 7 holes had been drilled in the salt beds in northern Mohave County, 10 miles from Beeley Landing, south. They have sunk 7 holes and disclosed 500 feet of halite with about 500 feet of overburden. The area drilled covers about 3 miles long by one mile wide. He was in to confer on salt markets and the best mining method. They plan to develop and ship salt to the chemical plant near Las Vegas. He will submit a Mine Owner's Report later.

LEWIS A. SMITH - WR - 4-5-58

KINGMAN, ARIZONA - Phelps Dodge Corporation is drilling for borax on Goldfield Consolidated Mines Company's Detrital Valley Saline project.

Taken from MINING WORLD, May 1959, p 31

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See Article MINING WORLD, June, 1959, p 73

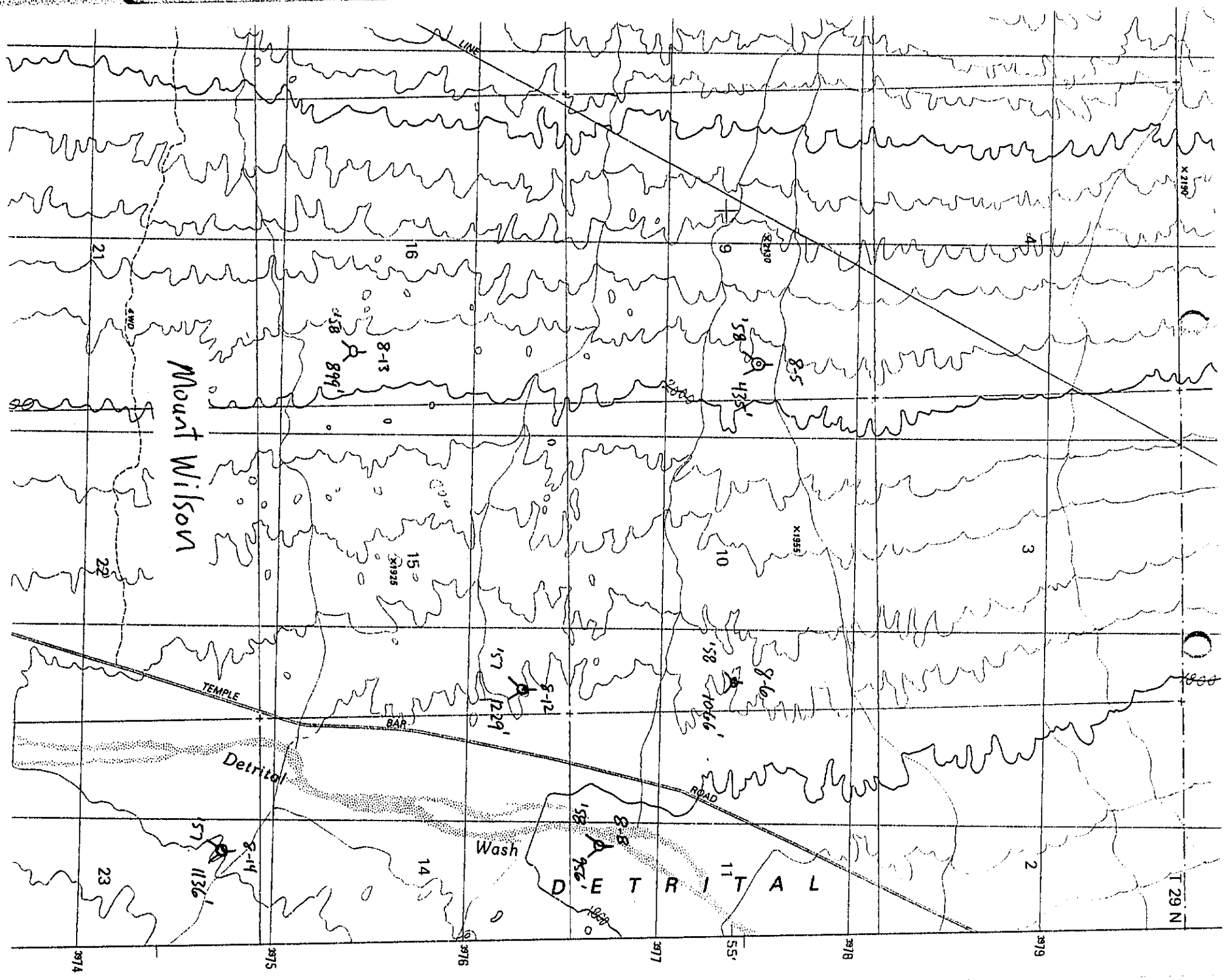
DETRITAL WASH SALT DEPOSITS

MOHAVE COUNTY

GOLDFIELD CONSOLIDATED MINES CO. (Wyoming Corp.)
W. A. Swan, V. Pres. and No. 1 Montgomery St.
206 N. Virginia St., San Francisco, Calif.
Reno, Nevada

W. A. Swan, also V. Pres. AMERICAN CHROME CO., Nye, Mont.
John L. Lukens, Treas. " "

4-22-58 - FPK hight



Mount Wilson
TEMPLE
BAR
ROAD
Detrital
Wash
D E T R I T A L
LINE
T 29 N
3974
3975
3976
3977
3978
3979
55'