WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

STATE OF NEVADA
DIVISION OF WATER RESOURCES

HC-2

WELL DRILLER'S REPORT

Please complete this form in its entirety

PRINT OR TYPE ONLY

OFFICE USE ONLY
Log No. 74569
Permit No.
Basin 124

NOTICE OF INTENT NO. 33123

1. OWNER Department of Energy — ADDRESS AT WELL LOCATION Project Shoal Area
MAILING ADDRESS

2. LOCATION NW ¼ SW ¼ Sec. 34 T. 16 N/S R. 32 E Churchill County
PERMIT NO. M10-1069 (Issued by Water Resources) | Parcel No. | Subdivision Name

3. TYPE OF WORK: New Well ☒ Recondition ☐ Deepen ☐ Other ☐

4. PROPOSED USE: Domestic ☐ Irrigation ☐ Test ☒ Monitor Municipal ☐ Industrial ☐ Stock ☐

5. TYPE WELL: Cable ☐ Rotary ☒ Other ☐

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Granite		0	450	450
Aplite		450	500	50
Granite		500	1303	803

RECEIVED
DEC 16 1996
STATE ENGINEER'S OFFICE
96 DEC 16 AM 11:38

Date started October 5, 1996, 19
Date completed Octobwer 15, 19 96

7. WELL TEST DATA

Pump RPM	G.P.M.	Draw Down	After Hours Pump

BAILER TEST
G.P.M. ..... Draw down ..... feet ..... hours
G.P.M. ..... Draw down ..... feet ..... hours
G.P.M. ..... Draw down ..... feet ..... hours

8. WELL CONSTRUCTION
Diameter 12" inches Total depth 1303 feet
8 inches
inches
Casing record 5.5 T & C J-55 Range 2
Weight per foot 1.5 Thickness .275

Diameter	From	To
8.625 inches	0 feet	103 feet
5.5 inches	0 feet	955 feet
inches	feet	feet
inches	feet	feet
inches	feet	feet
inches	feet	feet

Surface seal: Yes ☒ No ☐ Type Cement
Depth of seal 103' feet
Gravel packed: Yes ☐ No ☒
Gravel packed from feet to feet

Perforations:
Type perforation None - open end
Size perforation
From feet to feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

9. WATER LEVEL
Static water level 1100 feet below land surface
Flow G.P.M. P.S.I.
Water temperature °F Quality

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Beylik Drilling, Inc. (Contractor)
Address 3429 Longview Dr. N. Highlands CA 95660 (Contractor)
Nevada contractor's license number issued by the State Contractor's Board 0007055A
Nevada contractor's driller's number issued by the Division of Water Resources 1656
Nevada driller's license number issued by the Division of Water Resources the on site driller
Signed (By driller performing actual drilling on site or contractor)
Date December 11, 1996

(Rev. 11-85) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

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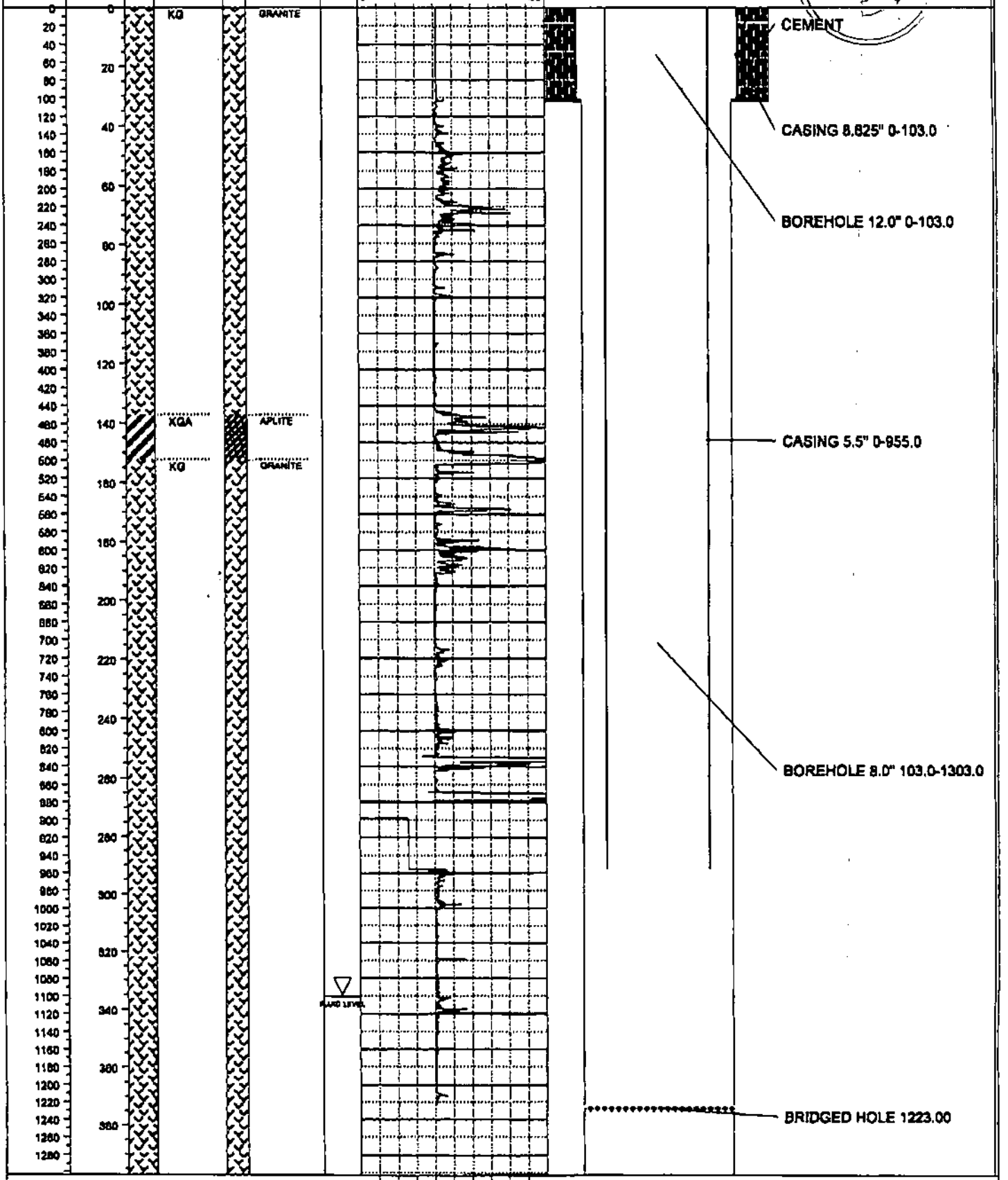
Hole No.:HC-2	Geology and Well Construction Summary	Date Began:10/5/98
Surface Elevation:5347.12	Northing:1620208.30 Easting:665447.80	Date Finished:10/15/98



Logged By: Century Geophysics/DRI
Drilling Co.: Baylik Drilling Services
Drilling Method: Air Rotary/ Reverse Circulation

IT CORPORATION
Project Shoal
Project No. 784044.03.07.00.00

Log 74569

Shoal Project
Churchill Co Nevada
Project No. 764044.03.07.00.00
IT Corporation Offsites Project
Lithologic Descriptions by Well

Well ID. HC-2 GRANITE 0.00 30.00 jaw 10/08/96
Granite, mottled grayish white to yellowish white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%)

Well ID. HC-2 GRANITE 30.00 60.00 jaw 10/08/96
Granite, bleached grayish white to mottled yellowish white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%). Abundant limonite staining and weak coating on fracture surfaces. Fracture zone and rubbly cuttings noted in the interval 30-60 ft. Minor water production noted in the same interval. Good cuttings quality 2.0-3.5mm, large cuttings 20-30 mm within the fractured interval.

Well ID. HC-2 GRANITE 60.00 200.00 jaw 10/14/96
Granite, mottled grayish white to yellowish white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%)

Well ID. HC-2 GRANITE 200.00 310.00 jaw 10/14/96
Granite, mottled grayish white to creamy buff white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Spotty fracture stains of ocherous yellow orange limonite through out interval

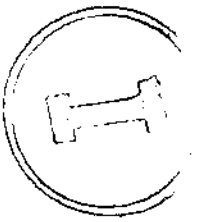
Well ID. HC-2 GRANITE 310.00 450.00 jaw 10/14/96
Granite, mottled grayish white to creamy buff white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Spotty fracture stains of ocherous yellow orange limonite through out interval

Well ID. HC-2 APLITE 450.00 500.00 jaw 10/14/96
Aplite, grayish white to milky grayish white, abundant quartz 85% as translucent to partly clear anhed xls, microcline (15%) as cleaved xls Minor black to dark green biotite as <1.0 mm subhed xls, possibly as residual cross contamination from other interval encountered above.

Well ID. HC-2 GRANITE 500.00 650.00 jaw 10/15/96
Granite, mottled grayish white to creamy buff white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses to 5 mm (10%) apparently related to thin irregular schlerien type flowage features, groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%). Accessory magnetite and some specularite noted <1%. Locally spotty fracture stains of ocherous yellow orange limonite through out interval

Well ID. HC-2 GRANITE 650.00 880.00 jaw 10/15/96
Granite, mottled grayish white to creamy buff white, porphyritic, abundant black to greenish black biotite subhed -anhed xl(1.0-2.0 mm) altering locally to chlorite also noted as irregular masses to 5 mm (10%), groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Some accessory magnetite and specularite <1% noted. Locally spotty fracture stains of ocherous yellow orange limonite through out interval. Possible fracture zone 740-750 ft.

Log 74569



WELL ID. EC-2 GRANITE 880.00 1023.00 jaw 10/15/96
Granite, mottled grayish green white to buff light grayish green to medium gray green, porphyritic, abundant black to greenish black biotite subhed -euhed xl(1.0-2.0 mm) much altered locally to chlorite also noted as irregular masses to 5 mm (10%),apparent schlerien flowage as streaky masses of very fine grained chlorite with minor biotite as platy to lens like cuttings, groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Accessory magnetite and specularite < 1% noted. Locally spotty fracture stains of ocherous yellow orange limonite through out interval. Possible schlerien/fracture zones 900-930, 960-990 ft. Cuttings quality is generally good 1.0-4.0 mm and noticably larger 10.0-15.0 mm in noted fracture zones.

WELL ID. EC-2 GRANITE 1023.00 1309.00 jaw 10/15/96
Granite, mottled grayish green white to buff light grayish green to medium gray green, porphyritic, abundant black to greenish black biotite subhed -euhed xl(1.0-2.0 mm) much altered locally to chlorite also noted as irregular masses to 5 mm (10%),apparent schlerien flowage as streaky masses of very fine grained chlorite with minor biotite as platy to lens like cuttings, groundmass comprised of medium to coarse grained clear to milky quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Accessory magnetite and specularite < 1% noted. Locally very spotty fracture stains of ocherous yellow orange limonite noted in isolated 10 ft. intervals. Possible schlerien/fracture zones 1090-1100, 1120-1130, 1140-1160 ft. Cuttings quality is generally good 1.0-4.0 mm and noticably larger 10.0-15.0 mm in noted fracture zones.