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

STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

Please complete this form in its entirety

OFFICE USE ONLY
Log No. 74566
Permit No.
Basin 101

HC-1

PRINT OR TYPE ONLY

NOTICE OF INTENT NO. 34409

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

2. LOCATION SW ¼ NE 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 ☐ Monitor Test ☒ Municipal ☐ Industrial ☐ Stock ☐

5. TYPE WELL: Cable ☐ Rotary ☒ Other ☐

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Granite		0	88	88'
Andesite		88	90	2'
Granite		90	902	812'
Adnesite		902	923	21'
Granite		923	1343	420'

RECEIVED 96 DEC 16 AM 11:38 WATER RESOURCES OFFICE

Date started September 26, 19 96
Date completed October 28, 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 12.0 inches Total depth 1343 feet
8 inches
inches
Casing record 5.5" T & C J-55 Range 2
Weight per foot 15.5 Thickness .275

Diameter	From	To
8.625 inches	0 feet	101.7 feet
5.5 inches	0 feet	1094 feet
inches	feet	feet
inches	feet	feet
inches	feet	feet
inches	feet	feet

Surface seal: Yes ☒ No ☐ Type Cement
Depth of seal 100 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

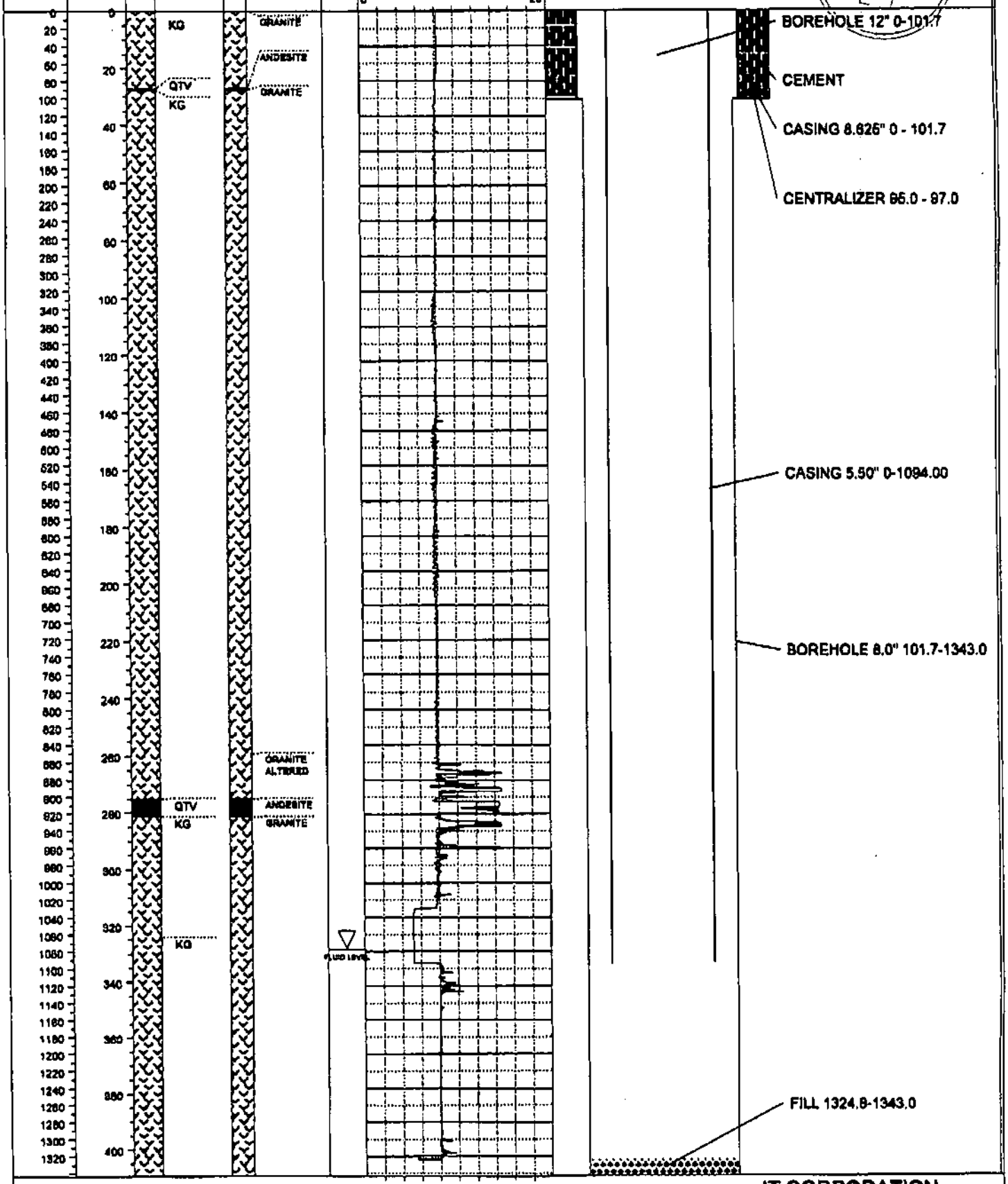
9. WATER LEVEL
Static water level 1080 feet below land surface
Flow G.P.M. P.S.I.
Water temperature °F Quality

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 Drive N. Highlands 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

Log 74566

Hole No.:HC-1	Geology and Well Construction Summary		Date Began:9/26/98
Surface Elevation:5309.21	Northing:1621927.10	Easting:557360.40	Date Finished:10/28/98



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

IT CORPORATION
Project Shoal
Project No. 764044.03.07.00.00

Log 14866

I

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

Well ID. HC-1 GRANITE 0.00 88.00 jaw 09/29/96
Granite, mottled grayish white to 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-1 ANDESITE 88.00 90.00 jaw 09/29/96
Andesite, light grayish green to greenish gray, weakly porphritic with thin laths <1.5 mm plagioclase (10%), minor hornblende as thin tabular xls in a fine grained groundmass. Potential fracture zone. Large rubbly cuttings 10-15mm

Well ID. HC-1 GRANITE 90.00 300.00 jaw 09/29/96
Granite, mottled grayish white to 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%) Possible fracture or fractures within the interval 230-240. Pale yellow to ochreous orange stains along micro fractures and xl boundaries. Good quality cuttings 2-3mm

Well ID. HC-1 GRANITE 300.00 400.00 jaw 10/02/96
Granite, mottled grayish white to white, porphyritic, abundant black to greenish black biotite xl altering locally to chlorite also noted as irregular masses or clots to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky gray quartz,(30%), milky white kspar (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Possible fracture or fractures within the interval 320-330 and 360-370. Pale yellow to ochreous orange stains along micro fractures and xl boundaries. Good quality cuttings 2-3mm

Well ID. HC-1 GRANITE 400.00 460.00 jaw 10/02/96
Granite, mottled grayish white to white, porphyritic, with abundant black to greenish black biotite xl altering locally to chlorite principally as 2-5mm irregular aggregate masses or clots to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky gray quartz,(30%), milky white anhed subhed kspar as microcline (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Fault/fracture or fracture zone within the interval 400-450. Some cutting show slickensides and fracture cleavage Pale yellow to ochreous orange stains along micro fractures and as halos surrounding clots and xl of chlorite boundaries. Large rubbly cuttings ranging 10-20mm.

Well ID. HC-1 GRANITE 460.00 510.00 jaw 10/02/96
Granite, mottled grayish white to white, porphyritic, with abundant black to greenish black biotite xl altering locally to chlorite principally as 2-5mm irregular aggregate masses or clots to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky gray quartz,(30%), milky white anhed subhed kspar as microcline (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Fault/fracture or fracture zone within the interval 400-450. Some cutting show slickensides and fracture cleavage. Pale yellow to ochreous orange stains along micro fractures and as halos surrounding clots and xl of chlorite boundaries. Good quality cuttings 3-5mm.

Well ID. HC-1 GRANITE 510.00 850.00 jaw 10/02/96
Granite, mottled grayish white to white, porphyritic, with abundant black to greenish black biotite xl altering locally to chlorite principally as 2-5mm irregular aggregate masses or clots to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky gray quartz,(30%), milky white anhed subhed kspar as microcline (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Very faint less prominant pale yellow to ochreous orange stains along micro fractures and as halos surrounding clots and xl of chlorite boundaries. Good quality cuttings 3-5mm. Fracture zone 640-660 ?? large cuttings noted.

Log 14566

I

WEll ID. HC-1 **GRANITE** 850.00 902.00 jaw 10/02/96
Granite, mottled grayish white to white to light blue gray, interval is bleached and strongly choritized, some local silicification, porphyritic with abundant chlorite after biotite, pervasive bluish green stained quartz and microcline. Fracture and micro fractures coated with stains and thin coatings of limonite. Rock is similar in composition to granite above yet altered.

WEll ID. HC-1 **ANDESITE** 902.00 923.00 jaw 10/02/96
Andesite, dark grayish blue to dark gray, very fine grain to aphanitic, some unidentified dark phenocrysts (< 1%) apparent. Cuttings (5-15mm) are generally platey and have weak fracture/flow cleavage. Some strongly altered granitic cuttings 10-20 mm with strong hematite/limonite staining. Fault/fracture zone filled by an andesite dike.

WEll ID. HC-1 **GRANITE** 923.00 1063.00 jaw 10/02/96
Granite, mottled grayish white to white, porphyritic, with abundant black to greenish black biotite xl altering locally to chlorite principally as 3-5mm irregular aggregate masses or clots to 10 mm (10%), groundmass comprised of medium to coarse grained clear to milky gray quartz, (30%), milky white anhed subhed kspar as microcline (40%) also noted as porphyritic xl up to 5mm (20%), minor plagioclase (<10%) Very faint less prominant pale yellow to ochreous orange stains along micro fractures and as halos surrounding clots and xl of chlorite boundaries. Poor quality cuttings 3-5mm with much cross contamination with cuttings of uphole lithologies most predominated by andesite.

WEll ID. HC-1 **GRANITE** 1063.00 1343.00 jaw 10/27/96
Mixed lithologies of granite and andesite as described above, much cross contamination from sloughing zones encountered above.