

Silver Oak Test Hole #4

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

STATE OF NEVADA
DIVISION OF WATER RESOURCES

OFFICE USE ONLY
Log No. 47212
Permit No. _____
Basin 104

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 13932

1. OWNER Carson City ADDRESS AT WELL LOCATION 1 1/2 mile west on Winnie Lane - 1/4 mile north
MAILING ADDRESS 3300 Butti Way Bldg #9, Carson City, NV 89710
2. LOCATION NE 1/4 NW 1/4 Sec. 7 T. 15 (N) S R. 20 E Carson County
PERMIT NO. W-414-A App# 60205T Silver Oak
Issued by Water Resources Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other _____
4. PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock
5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
See Attached Log				
<i>See Log #47211</i>				
<i>STATE LAND</i>				

8. WELL CONSTRUCTION
Depth Drilled 730 Feet Depth Cased 430 Feet
HOLE DIAMETER (BIT SIZE)
From 10 Inches To 0 Feet 730 Feet
Inches Feet Feet
Inches Feet Feet
CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
6 5/8	18.97	.280	+2	220
6 5/8	18.97	.280	360	380
6 5/8	18.97	.280	420	430

Perforations:
Type perforation Triple Row Mill Slot
Size perforation 3/32 x 2"
From 220 feet to 360 feet
From 380 feet to 420 feet
From _____ feet to _____ feet
From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
Depth of Seal 55 Neat Cement
Placement Method: Pumped Poured Cement Grout Concrete Grout
Gravel Packed: Yes No
From 55 feet to 430 feet

Date started _____, 19____
Date completed _____, 19____

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
350	160	8 hrs

9. WATER LEVEL
Static water level 100 feet below land surface
Artesian flow _____ G.P.M. _____ P.S.I.
Water temperature Norm °F Quality Good

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Humboldt Drilling & Pump Co Inc Contractor
Address P. O. Box 590 Contractor
Winnemucca, NV 89446
Nevada contractor's license number issued by the State Contractor's Board 015234
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 1713
Signed C. C. Eppeler
By driller performing actual drilling on site or contractor
Date 11-29-94

690-710	51	0.39	23.53
710-730	112	0.18	10.71

Total Minutes 985

Total Hours 16.42

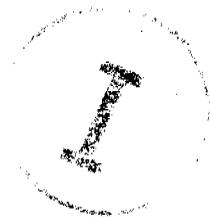
Average Ft./Minute 0.74

Average Ft./Hour 44.46

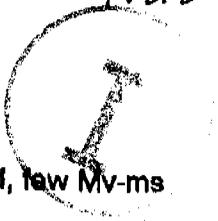
Lithology - Silver Oaks Test Hole #4

<u>Depth</u>	<u>Description</u>
0-10	Tan silt, fine to coarse sand.
10-20	Tan sandy clay 30%, silt, coarse to medium sand.
20-30	Tan sandy clay 20%, silt, very coarse to medium sand.
30-40	No clay. Very coarse to medium sand. Few Mv-Ms clasts.
40-50	Grey sandy clay 5%, silt, fine gravel, very coarse to medium sand, few Mv-Ms clasts.
50-60	Dull tan sandy clay 25%, silt, coarse to medium sand, few Mv-Ms clasts.
60-70	Dull tan sandy clay 15%, silt, coarse to medium sand, few Mv-Ms clasts.
70-80	Dull tan sandy clay 25%, silt, some fine gravel, coarse to medium sand, few Mv-Ms clasts.
80-90	Tan sandy clay 35%, silt, coarse to medium sand, few Mv-Ms clasts.
90-100	Tan/brown sandy clay 10%, silt. Coarse to medium sand, few Mv-Ms clasts.
100-110	Yellow-brown soft clay 15%, silt coarse sand, few Mv-Ms clasts.
110-120	Yellow-brown soft clay, 5%, silt. Coarse to medium sand, few Mv-Ms clasts.

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- 120-130 No clay, silt. Coarse to medium sand, few Mv-Ms clasts.
- 130-140 No clay, silt, coarse to medium sand, few Mv-Ms clasts.
- 140-150 No clay, silt, coarse to medium sand, few Mv-Ms clasts.
- 150-160 Tan soft clay 5%, silt, coarse to medium sand, few Mv-Ms Clasts.
- 160-170 Dull tan sandy clay 20%, silt, medium sand, few Mv-Ms clasts.
- 170-180 Dull tan sandy clay 20%, silt, medium sand, some Orange/brown clasts 10%, few Mv-Ms clasts.
- 180-190 Tan sandy clay 15%, silt, medium sand, Orange/brown clasts 15%, few Mv-ms clasts.
- 190-200 Dull tan sandy clay 10%, silt. Medium sand, Orange/brown clasts 10%, few Mv-Ms clasts.
- 200-210 Dull brown soft clay 25%, silt, medium sand, Orange/brown clasts 15%, few Mv-Ms Clasts.
- 210-220 Dull brown soft clay 20%, silt, coarse to medium sand, Orange/brown clasts 20%, few Mv-Ms Clasts.
- 220-230 Dull brown stiff sandy clay, some yellow brown clay 60%, silt. medium sand, Orange/brown clasts 10% few Mv-Ms clasts.
- 230-240 Yellow-brown sandy clay 50%, silt, coarse to medium sand, few Mv-Ms clasts.
- 240-250 Dull tan sandy clay, silt, coarse to medium sand, some fine gravel, few Mv-ms Clasts.
- 250-260 Dull tan sandy clay 5%, silt, very coarse to coarse sand, some fine gravel, few Mv-Ms clasts.
- 260-270 Dull tan sandy clay 25%, silt, coarse to medium sand, few Mv-Ms clasts.
- 270-280 Dull tan sandy clay 15%, silt, coarse to medium, sand, few Mv-Ms clasts.
- 280-290 Dull tan sandy clay 15%, silt, coarse to medium sand, few Mv-Ms clasts.
- 290-300 Dull tan sandy clay 25%, silt, medium sand, few Mv-Ms clasts.
- 300-310 Dull tan sandy clay 20%, silt, medium sand, few Mv-Ms clasts.
- 310-320 Dull brown sandy clay 20%, silt, very coarse sand, few Mv-Ms clasts.
- 320-330 Dull brown stiff clay 80% silt, very coarse sand, few Mv-Ms clasts.



- 330-340 Dull brown stiff clay 30%, Grey-green clay 20%, silt, very coarse sand, few Mv-ms clasts.
- 340-350 Dull brown stiff clay 40%. Grey-green clay 10%, silt very coarse sand, few Mv-Ms clasts.
- 350-360 Dull brown silty clay 75%, medium sand, silt, few Mv-Ms clasts.
- 360-370 Dull brown silty clay 60%, silt, medium sand, silt, few Mv-Ms clasts.
- 370-380 Dull brown silty clay 70%, silt, medium to fine sand, few Mv-Ms clasts.
- 380-390 Dull brown silty clay 70%, silt, medium to fine sand, few Mv-ms clasts.
- 390-400 Dull brown sandy clay, 50%, silt, medium to fine sand, few Mv-Ms clasts.
- 400-410 Dull brown sandy clay 30%, silt, coarse to medium sand, boulders, few Mv-Ms clasts.
- 410-420 Brown sandy clay 80%, silt, medium to fine sand, few Mv-Ms clasts.
- 420-430 Brown sandy clay 10%, silt coarse to medium sand, few Mv-Ms clasts.
- 430-440 Brown sandy clay 10%, silt, coarse to medium sand, few Mv-Ms clasts.
- 440-450 Brown sandy clay 15%, silt, coarse to medium sand, boulders, few Mv-Ms clasts.
- 450-460 Brown sandy clay 20%, silt, coarse to medium sand, boulders, few MV-Ms clasts.
- 460-470 Light brown sandy clay 40% silt, coarse to medium sand, some boulders, few Mv-ms clasts.
- 470-480 Brown sandy clay 40%, silt, medium to fine sand, Mv-Ms clasts.
- 480-490 Brown sandy clay 45%, silt, coarse to medium sand, fine gravel, few boulders, few Mv-ms clasts.
- 490-500 Brown-grey silty clay 95%, silt, fine sand.
- 500-510 Light brown sandy clay 70%, silt, coarse to fine sand, few Mv-Ms clasts.
- 510-520 Dull brown sandy clay 80%, silt, coarse sand, few Mv-Ms clasts.
- 520-530 Dull brown sandy clay 70%, silt, coarse to medium sand, few Mv-Ms clasts.
- 530-540 Brown sandy clay 50%, silt, medium to fine sand, few Mv-Ms clasts.
- 540-550 Brown sandy clay 50%, silt, coarse to fine sand, few Mv-Ms clasts.
- 550-560 Brown sandy clay 50%, silt, coarse to fine sand, few Mv-ms clasts.



- 560-570 Brown sandy clay 70%, silt, medium to fine sand, few Mv-ms clasts.
- 570-580 Brown sandy clay 50%, silt, medium to fine sand, few Mv-Ms clasts.
- 580-590 Brown sandy clay 50%, silt, medium to fine sand, few Mv-Ms clasts.
- 590-600 Dull brown sandy, silty clay 50%, silt, coarse sand, orange/brown clasts 60%, fine gravel, few boulders few Mv-Ms clasts.
- 600-610 Dull brown sandy, silty clay 60%, silt, coarse to medium sand, orange/brown clasts 15%, few boulders, few Mv-Ms clasts.
- 610-620 Brown sandy, silty clay 75%, silt, coarse to medium sand, orange/brown clasts 80%, few Mv-ms clasts.
- 620-630 Dull brown sandy, silty clay 60%, silt, coarse to medium sand, few Mv-Ms clasts.
- 630-640 Dull brown sandy silty clay 80%, silt, coarse to medium sand, few Mv-Ms clasts.
- 640-650 Dull brown sandy, silty clay 70%, silt, coarse to medium sand, few Mv-Ms clasts..
- 650-660 Brown sandy, silty clay 50%, silt, coarse to fine sand, orange/brown clasts, fine gravel, boulders, Few Mv-Ms clasts.
- 660-670 Brown sandy silty clay 60%, silt, coarse to fine sand, orange/brown clasts 40%, some fine gravel, few Mv-Ms clasts.
- 670-680 Dull brown sandy clay 60%, silt, fine gravel, boulders, subangular fragments to 1.5 cm.
- 680-690 Yellow brown silty clay 70%, silt, coarse to medium sand, boulders, few Mv-Ms clasts.
- 690-700 Tan/grey silty clay 75%, silt, coarse to medium sand, boulders, few Mv-Ms clasts.
- 700-710 Tan/grey stiff silty clay, silt, coarse to medium sand, fine gravel, few Mv-Ms clasts.
- 710-720 Grey-green stiff silty clay 100%.
- 720-730 Grey stiff silty clay 95%, silt, fine sand.