

STATE OF NEVADA
 DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
 Log No. 88695
 Permit No. 087
 Basin
 NOTICE OF INTENT NO. 43819 (2)

PRINT OR TYPE ONLY
 DO NOT WRITE ON BACK

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

1. OWNER TMWA ADDRESS AT WELL LOCATION Sparks High School 820
 MAILING ADDRESS P.O. Box 30013 15th Street Sparks,
Reno, NV 89520 NV

2. LOCATION SW 1/4 NE 1/4 Sec. 5 T 19N N/S R 20 E Washoe County
 PERMIT NO. Waiver #W-557 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
Top Soil		0	1	
Sand, gravel, cobbles, small boulders		1	40	40
Sand, broken rocks, cobbles, little sandy clay	x	40	47	46
Sand, broken rocks	x	47	70	30
Sand w/broken rock, little brown clay	x	70	73	26
Sand w/clay, broken rock		73	84	14
Clay		84	105	32
Clay w/sand		105	114	30
Clay, sand and small gravel	x	114	147	42
Clay w/little sand		147	163	49
Sand w/small gravel and little clay	x	163	216	69
Sand and clay		216	219	56
Sand, gravel and clay	x	219	222	6
Gravel and clay	x	222	239	20
Small gravel, sand and clay	x	239	244	22
Sand, small gravel, little clay	x	244	263	24
Clay w/sand		263	274	30
Small gravel, sand, clay	x	274	278	15

Continued on next page

8. WELL CONSTRUCTION
 Depth Drilled 370 Feet Depth Cased _____ Feet

HOLE DIAMETER (BIT SIZE)

Inches	From	To
36	0	40
22	40	370

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
24		3/8	0	40
8 5/8		3/16	0	130

Perforations:
 Type perforation _____
 Size perforation _____

From _____ feet to _____ feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout

Depth of Seal 40'
 Placement Method: Pumped Poured

Gravel Packed: Yes No
 From _____ feet to _____ feet

9. WATER LEVEL
 Static water level 30 feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

Date started 1/3/03, 19__
 Date completed 2/27/03, 19__

7. WELL TEST DATA

TEST METHOD:	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<input type="checkbox"/> Bailer <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift			

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 4675 W. Winnemucca Blvd Contractor
Winnemucca, Nevada 89445

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 [Signature]
 By driller performing actual drilling on-site or contractor
 Date 03/03/03

STATE OF NEVADA
 DIVISION OF WATER RESOURCES

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2. LOCATION SW 1/4 NE 1/4 Sec. 5 T 19N N/S R 20 E Washoe County
 PERMIT NO. Waiver #W-557 Parcel No. _____ Subdivision Name _____
Issued by Water Resources

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	Thick-ness
Blue clay, brown clay	X	278		
w/small gravel & sand			296	22
Sand & blue clay		296	303	25
Blue clay		303	327	31
Sand w/small gravel	X	327	336	33
Blue clay w/sand		336	362	35
Brown clay w/little sand	X	362	370	8
See attached typed report				

8. WELL CONSTRUCTION
 Depth Drilled _____ Feet Depth Cased _____ Feet

HOLE DIAMETER (BIT SIZE)

From		To	
Inches	Feet	Inches	Feet
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)

Perforations:

Type perforation _____
 Size perforation _____

From _____ feet to _____ feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Depth of Seal _____ Neat Cement
 Placement Method: Pumped Cement Grout
 Poured Concrete Grout

Gravel Packed: Yes No
 From _____ feet to _____ feet

9. WATER LEVEL
 Static water level _____ feet below land surface
 Artesian 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 Humboldt Drilling & Pump Co., Inc.
Contractor
 Address 4675 W. Winnemucca Blvd
Contractor
Winnemucca, Nevada 89445
 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 _____
By driller performing actual drilling on-site or contractor
 Date 03/03/03

Date started 1/3/03, 19____
 Date completed 2/27/03, 19____

7. WELL TEST DATA

TEST METHOD:	<input type="checkbox"/> Bailer <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift		
	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

RECEIVED
 03/03/03 5 AM 11:25
 STATE PUBLIC OFFICE

Humboldt Drilling & Pump Co., Inc.
4675 W. Winnemucca Blvd.
Winnemucca, NV 89445
Telephone: 775-623-5259 Fax: 775-623-0307

March 3, 2003

TMWA

P.O. Box 30013
Reno, NV 89520

Attachment on Sparks High School Well Log

820 15th Street

Sparks, NV

Intent No. 43819(2)

Waiver #W-557

We drilled a 12" test hole and cased this well with 6" PVC. We came in later and drilled on top of the 6" PVC well with a large reverse circulation rig. At 100', we were not drilling the same hole as the test hole so we drilled down to 370' to see if we would intercept the test hole. We did not, so we abandoned the larger production hole from 370' to 280'. We moved in another rig and drilled outside of the 24" conductor to intercept the 6" PVC. The following report is as described below:

Set 19 cubic yards of neat cement from 370' to 280'. Installed hole stabilizer-gravel pack- from 280' to 150'. Moved drill into location and set up alongside 24" well. Drilled down to 100' with 8" hole. Stopped drilling on top of 6" PVC casing. Ran fishing tool down to get inside 6" PVC from side of well. Ran trimmie pipe down inside of 6" PVC to a depth of 440'. Pumped 5 yards of neat cement, cement level at 155'. Got 12 bags of cement and topped off to 103' inside of 6" PVC. Reverse production hole material that caved in with 8" casing. We reversed material out from 70' to 130'. Could not advance any deeper. Cemented 8 inch casing in place with 50 yards of 5 sack cement. Drilled through 8 inch casing down to 150' and set trimmie pipe and pumped 3 yards of neat cement (Set up to 110'). Drilled back through cemented boulders and ran 4 inch reverse pipe and reverse out hole stabilizer (gravel pack). Reverse down to 273' with 4 inch pipe, pull out reverse pipe and run trimmie pipe down and wash down to 283' with trimmie pipe. Pumped 5 yards of neat cement from 283' to 250' and then pumped 16 yards of 5 sack cement. Cement went down to 160' overnight. Pumped 8 yards of 5 sack cement to surface.

RECORDED

03 MAR -5 AM 11:25

STATE ENGINEERS OFFICE