

West Diamond Valley

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

OFFICE USE ONLY 108031

Log No. _____
Permit No. _____
Basin 153 pg1

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

NOTICE OF INTENT NO. 10953

1. OWNER U.S. Geological Survey ADDRESS AT WELL LOCATION N/A
MAILING ADDRESS 2730 N. Deer Run Rd. Carson City, NV 89701 39° 42' 20" N, 116° 05' 50" W (MAD 21)

2. LOCATION NE 1/4 NE 1/4 Sec 10 T 21 R 52 E Eureka County
PERMIT NO. N/P-1452 007-180-01 N/A
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	Thick-ness
Angular to sub angular multi-colored chert fragments and soil (fine material)		0	38	38
Unknown, probably same		38	58	20
Same as for 0-38' interval		58	183	125
Clay and chert sand (lacustrine sediments)		183	205	22
Same, but pronounced layers of gravel and/or cobbles		205	218	13
Clay w/ lesser but variable amounts of chert sand		218	233	15
Chert sand		233	242	9
Clay		242	245	3
Chert sand		245	247	2
Clay w/ much lesser chert sand		247	254	7
Clay w/ minor chert sand		254	260	6
Clay w/ lesser amounts of chert sand		260	281	21
Chert sand w/ minor clay		281	293	12

8. WELL CONSTRUCTION
Depth Drilled 499 Feet Depth Cased 499 Feet

HOLE DIAMETER (BIT SIZE)
From To
8 Inches 0 Feet 334 Feet
7 7/8 Inches 334 Feet 499 Feet
Inches Feet Feet

CASING SCHEDULE 375.25				
Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2	Shallow	Sched 80	0	360.25
2	Deep	Sched 80	0	478.7 499.0

Perforations:
Type perforation slotted
Size perforation 0.02"
From shallow 350.25 feet to 370.25 feet
From deep 478.7 feet to 498.7 feet
From _____ feet to _____ feet
From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
Depth of Seal 342' Neat Cement
Placement Method: Pumped Cement Grout
 Poured Concrete Grout

Gravel Packed: Yes No Bentonite grout, 30% solids
From shallow: 342-371 feet to deep: 471-499 feet 371-471

9. WATER LEVEL
Static water level shallow: 265.14 feet below land surface
Artesian flow N/A deep: 270.02 G.P.M. N/A 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 Alan M. Preissler Contractor
Address 2730 N. Deer Run Rd. Carson City, NV 89701 Contractor
Nevada contractor's license number issued by the State Contractor's Board N/A
Nevada driller's license number issued by the Division of Water Resources, the on-site driller EP-1892
Signed Alan M. Preissler
By driller performing actual drilling on site or contractor
Date Nov. 20, 2007

Date started October 28, 2007
Date completed October 30, 2007

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
	<u>85-110</u>	<u>92 AON 100301</u>

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WELL DRILLER'S REPORT
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Log No. _____
Permit No. _____
Basin 103 pg2

NOTICE OF INTENT NO. 10953

1. OWNER U.S. Geological Survey ADDRESS AT WELL LOCATION _____
MAILING ADDRESS _____ N39.70556 W116.09722 NAD27

2. LOCATION 1/4 1/4 Sec _____ T _____ N/S R _____ E _____ County _____
PERMIT NO. M10-1952 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	Thick-ness
Clay w/ variable but lesser amounts of chert sand		293	304	11
Chert sand w/ minor clay		304	328	24
Clay w/ lesser amounts of chert sand	322-			
	331			
Chert sand		328	331	3
Chert sand		331	333	2
Chert gravel and/or cobbles		333	334	1
Chert sand w/ very minor clay		334	338	4
Clay w/ minor chert sand		338	347	9
Chert sand w/ little or no clay		347	362	15
Probable gravel layer		362	364	2
Chert sand w/ minor clay		364	374	10
Clay and chert sand in variable but approx. equal qnts.		374	385	11
Chert sand w/ very minor clay		385	395	10
Chert sand w/ trace clay		395	410	15

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

HOLE DIAMETER (BIT SIZE)
From _____ To _____
Inches _____ Feet _____ Feet
Inches _____ Feet _____ Feet
Inches _____ Feet _____ 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
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 _____ Contractor
Address _____ Contractor

Nevada contractor's license number issued by the State Contractor's Board _____
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 _____

Date started _____ 19 _____
Date completed _____ 19 _____

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

Draw Down (Feet Below Static)	Time (Hours)
<u>05:11:58</u>	<u>26</u>

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WELL DRILLER'S REPORT

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Log No. _____
 Permit No. _____
 Basin 153 pg3

NOTICE OF INTENT NO. 10953

1. OWNER U.S. Geological Survey ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____

2. LOCATION 1/4 1/4 Sec. _____ T. _____ N/S R. _____ E. _____ County _____
 PERMIT NO. M/P-1452 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	Thick-ness
<u>Chert gravel and/or cobbles</u>		<u>410</u>	<u>411</u>	<u>1</u>
<u>Chert sand w/ trace clay</u>		<u>411</u>	<u>424</u>	<u>13</u>
<u>Chert sand w/ minor to sign. amounts of clay</u>		<u>424</u>	<u>428</u>	<u>4</u>
<u>Chert sand w/ very minor clay</u>		<u>428</u>	<u>434</u>	<u>6</u>
<u>Clay w/ minor chert sand</u>		<u>434</u>	<u>443</u>	<u>9</u>
<u>Interbedded chert sand, clay and chert sand w/ minor clay</u>		<u>443</u>	<u>458</u>	<u>15</u>
<u>Chert sand w/ minor clay</u>		<u>458</u>	<u>463</u>	<u>5</u>
<u>Clay w/ minor chert sand</u>		<u>463</u>	<u>473</u>	<u>10</u>
<u>Chert sand Clay</u>		<u>473</u>	<u>476</u>	<u>3</u>
<u>Chert sand w/ minor clay</u>		<u>476</u>	<u>477</u>	<u>1</u>
<u>Clay w/ much lesser chert sand</u>		<u>477</u>	<u>485</u>	<u>8</u>
<u>Chert w/ trace clay (bedrock?)</u>	↓	<u>486</u>	<u>499</u>	<u>13</u>

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

HOLE DIAMETER (BIT SIZE)
 From _____ To _____
 Inches _____ Feet _____ Feet
 Inches _____ Feet _____ Feet
 Inches _____ Feet _____ 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:
 Neat Cement
 Cement Grout
 Concrete Grout

Depth of Seal _____
 Placement Method: Pumped Poured
 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 _____ Contractor
 Address _____ Contractor

Nevada contractor's license number _____
 issued by the State Contractor's Board
 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 _____

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)
<u>10</u>	<u>11</u>	<u>26</u>
<u>11</u>	<u>12</u>	<u>26</u>
<u>12</u>	<u>13</u>	<u>26</u>
<u>13</u>	<u>14</u>	<u>26</u>
<u>14</u>	<u>15</u>	<u>26</u>