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

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STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

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

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Log No. 7193
Permit No.
Basin

Page 1 of 3

NOTICE OF INTENT NO. 10611

1. OWNER Consultant: MONTGOMERY WATSON
MAILING ADDRESS 365 Lennon Lane
Walnut Creek, CA 94598

Client:
ADDRESS AT WELL LOCATION Rocketdyne Former
Nevada Field Laboratory Area C
Right Hand Canyon Road, Palmino Valley

2. LOCATION ~~SE~~ NE ¼ SE ¼ Sec. 18 T 22N N/S R 22 E Area C Washoe County
PERMIT NO M/O 431-G MW C-3C (Issued by Water Resources) 077-310-04 (Parcel No.) Palmino Valley (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
SILT with gravel, dark brown, dry, subangular to subrounded fine gravel, some fine sand, including mica, quartz and feldspar grains, non plastic		0	5.5	5.5
SILT yellowish brown, dry, trace angular fine gravels/coarse sand, comprised of fragments of tuffs of Chimney and Whiskey springs.		5.5	15	9.5
@ 12' as above, slightly less gravel. SANDY SILT yellow brown, dry, very fine sand, noticeable mica grains, trace medium coarse sand, subrounded, nonplastic to very slight plasticity.		15	20	5
GRAVELLY SANDY SILT, brown, low plasticity, fine subangular gravel fragments of tuffs of Chimney springs and Whiskey Springs, sand grains include quartz and feldspar.		20	28	8
CLAY, with gravel, brown fine gravels as above.		28	30.5	2.5
GRAVELLY CLAY, brown, fine subangular clasts of predominantly the middle units of the tuffs of Whiskey and Chimney Springs and rare clasts of the lower unit tuff of Chimney Springs.		30.5	53	22.5
@ 40' as above, angular clasts include lower and middle F unit tuff of Whiskey Springs. RHYOLTIC TUFF, reddish brown, welded with smokey quartz and feldspar phenicrysts				

Continued on page 2

Date started 5-20-96, 19
Date completed 5-31-96, 19

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
Plugged by Well Log No 116262		

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8. WELL CONSTRUCTION
Depth Drilled 95 Feet Depth Cased 83 Feet

HOLE DIAMETER (BIT SIZE)

		From	To
13 5/8 Inches		0 Feet	70 Feet
9 Inches		71 Feet	83 Feet
Inches		Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
4" OD steel		.188	+0.5	81.5
1" Galvanized sch 40 PVC pipe			+0.5	79.5
1" Sounding tube sch 80 PVC			+1	79

Continued on page 2

Perforations:
Type perforation factory sawed vertical slots
Size perforation 4"OD steel x0.020" w/ double row
From 71.5 feet to 81.5 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal
Placement Method: ☒ Pumped
Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout
Bentonite seal 68-70.5
#30 Lonestar filter sand 70.5-71'
Gravel Packed: ☒ Yes ☐ No
From 71-83 ft. with coarse Aquarium sand feet to 88-95' native material feet

9. WATER LEVEL
Static water level (6-11-96) 34.5ft. feet below land surface
Artesian flow G.P.M. 40-50 P.S.I.
Water temperature cold °F Quality not known

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name WAYNE DRILLING, INC. (Contractor)
Address P.O. Box 12370 (Contractor)
Reno, Nevada 89510
Nevada contractor's license number issued by the State Contractor's Board 0022549
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 908
Signed (By driller performing actual drilling on site or contractor)
Date May 28, 1997

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STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

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Basin 54

Page 2 of 3
NOTICE OF INTENT NO. 30611

1. Consultant: OWNER MONTGOMERY WATSON
MAILING ADDRESS 365 Lennon Lane
Walnut Creek, CA 94598

Client: ADDRESS AT WELL LOCATION Rocketdyne Former
Nevada Field Laboratory Area C
Right Hand Canyon Road, Palmino Valley

2. LOCATION SE ¼ SE ¼ Sec. 18 T 22N N/S R 22 E Area C Washoe County
PERMIT NO. M/O 431-G MW C-3C (Issued by Water Resources) 077-310-04 (Parcel No.) Palmino Valley (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
Continued from page 1				
(Interpreted to be the Tuff of Chimney Springs).		53	58	5
@ 57' altered to include large percentage of clay particles, quartz and feldspar phenocrysts present in remnant tuff fragments.				
SANDY CLAY, with gravel, light yellowish brown moderate plasticity, fine to coarse sand composed of clasts of quartz, feldspar and whiskey.		58	60.5	2.5
RHYOLITIC tuff, brownish yellow, aphanitic, groundmass with black to golden-brown biotite phenocrysts.		60.5	72	11.5
@ 61.5', as above, with feldspars and euhedral biotite phenocrysts.				
@ 66', as above, but with fewer phenocrysts.				
@ 70', rhyolitic tuff, predominantly very pale brown, occasional grayish brown and reddish brown, abundant feldspar and euhedral phenocrysts in aphanitic groundmass, borehole producing approximately 7-10 gpm groundwater.				
RHYOLITIC tuff, reddish brown, smaller more granular feldspar and euthedral biotite phenocrysts, aphanitic groundmass,		72	75	3
RHYOLITIC TUFF, light reddish brown abundant feldspar and rare biotite phenocrysts, drilling chips are similar to coarse sand.		75	77	2

Continued on page 3
Date started 5-20-96, 19
Date completed 5-31-96, 19

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
	Plugged by Well	
	Log No. 116262	

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

HOLE DIAMETER (BIT SIZE)
From To
..... Inches ..... Feet ..... Feet
..... Inches ..... Feet ..... Feet
..... Inches ..... Feet ..... Feet

Continued from page 1
CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
Steel centralizers at 6', 60',				
8 5/8" Dia. steel conductor casing +1.5-70.5'				
Grundfos sub pump: intake set at 79.5'				
PVC end cap set at 82'				

Perforations:
Type perforation
Size perforation
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet

Surface Seal: ☐ Yes ☐ No
Depth of Seal
Bentonite Cement Grout 0-70' and from 83-88'.
Seal Type: ☐ Neat Cement ☐ Cement Grout ☐ 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 WAYNE DRILLING, INC. (Contractor)
Address P.O. Box 12370 (Contractor)
Reno, Nevada 89510
Nevada contractor's license number issued by the State Contractor's Board 0022549
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 908
Signed [signature] By driller performing actual drilling on site or contractor
Date May 28, 1997

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DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

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Permit No.
Basin 84

NOTICE OF INTENT NO. 30611

1. OWNER Consultant: MONTGOMERY WATSON
MAILING ADDRESS 365 Lennon Lane
Walnut Creek, CA 94598

Client:
ADDRESS AT WELL LOCATION Rocketdyne Former Nevada Field Laboratory Area C
Right Hand Canyon Road, Palmino Valley

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☐ 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
Continued from page 2				
RHYOLITIC TUFF, reddish brown, abundant feldspar, and rare biotite phenocrysts in a aphanitic groundmass.		77	82.5	5.5
@ 80.5', as above, increasing percentage of coarser(0.5 to 1 cm diameter) subrounded and aphanitic. Groundwater production approximately 30 gpm.				
RHYOLITIC tuff, light gray, feldspar and biotite phenocrysts in aphanitic groundmass. Borehole producing approximately 40 - 50 gpm groundwater.		82.5	85	2.5
RHYOLITIC tuff, dark reddish gray, abundant feldspar phenocrysts and rare euhedral biotite phenocrysts.		85	89.5	4.5
@ 88', as above, gray, lithic fragments. tuff slightly harder at 89-90'.				
RHYOLITIC tuff, light gray, abundant feldspar phenocrysts and larger gray fragments.		89.5	92	2.5
RHYOLITIC tuff, light brownish gray, with rare large euhedral feldspar phenocrysts. Groundwater production still approximately 40-50 gpm.		92	95	3

Date started 5-20-96, 19
Date completed 5-31-96, 19

7. WELL TEST DATA
TEST METHOD ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

Plugged by Well Log No. 116262

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
From ____ feet to ____ feet

Surface Seal: ☐ Yes ☐ No
Depth of Seal
Placement Method: ☐ Pumped ☐ Poured
Seal Type: ☐ Neat Cement ☐ Cement Grout ☐ 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
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Address P. O. Box 12370 (Contractor)
Reno Nevada 89510

Nevada contractor's license number issued by the State Contractor's Board 0022549
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 908

Signed (By driller performing actual drilling on site or contractor)
Date May 28, 1997

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