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**WELL DRILLER'S REPORT**

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

Page 1 of 3 pages  
 NOTICE OF INTENT NO 30612

Consultant: MONTGOMERY WATSON Client: ROCKETDYNE FORMER  
 1. OWNER: 365 Lennon Lane ADDRESS AT WELL LOCATION: Nevada Field Laboratory Area B  
 MAILING ADDRESS: Walnut Creek, CA 94598 800 Axe Handle Canyon Road, Palomino Valley  
 2. LOCATION: DDA SE 1/4 SE 1/4 Sec. 29 T. 22N N/S R21 E Washoe County  
 PERMIT NO. M/O 708 MW B-14B 1076-150-01 Palomino Valley 29-2-17  
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
ANDESITE: porphyritic, gray, aphanitic ground-mass with partially altered plagioclase phenocrysts, moderately to highly weathered in some intervals with iron oxide staining and clay on fracture surfaces.		0	7	7
GRANODIORITE: medium-to course-grained, with feldspar, quartz, and biotite, and trace grains of hornblende and pyrite. Highly weathered and fractured with common iron oxide staining and local alteration of biotite and the presence of clayey material in fractures.		7	350	343
several soft, fractured zones with clayey material.		36	45	9
soft, fractured zone with a clayey material.		59	62	3
hard, fresh rock, slightly fractured, very little weathering, some iron oxide staining, trace pyrite and xenoliths.		62	126	64
fractured zones @ 70-71', 75-76', 104-105', & localized iron oxide staining at 119-120'		126	136	10
soft, fractured zone with clay on fracture surfaces @135ft. groundwater encountered in boring; stabilized at 108 ft.				
134-136ft; water producing fractures and weathered zone.				
141-143 ft; water producing fractured and				

8. WELL CONSTRUCTION  
 Depth Drilled 350 Feet Depth Cased 308 Feet  
 HOLE DIAMETER (BIT SIZE)  
 From 9 Inches To 0 Feet 350 Feet  
 \_\_\_\_\_ Inches \_\_\_\_\_ Feet \_\_\_\_\_ Feet  
 \_\_\_\_\_ Inches \_\_\_\_\_ Feet \_\_\_\_\_ Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
5"OD steel		.188	0	305
Galvanized steel pipe			0	345
Sounding tube sch 40 PVC			0	345

continued on pg. 2  
 Perforations:  
 Type perforation factory sawed vertical slots  
 Size perforations 5" OD steel x 0.064 w/double  
 From row vertical feet to slots \_\_\_\_\_ feet  
 From 308 feet to 348 feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet

Surface Seal:  Yes  No Seal Type:  Neat Cement  Cement Grout  Concrete Grout  
 Depth of Seal 0-300ft.  
 Placement Method:  Pumped  Poured  
 Bentonite seal 300-304/#0/30lonestar filter  
 Gravel Packed:  Yes  No sand 304-305  
 From 305-350ft. with feet to course Aquarium feet

9. WATER LEVEL  
 (10-31-96) 105 feet below land surface  
 Static water level: \_\_\_\_\_ feet below land surface  
 Artesian flow: \_\_\_\_\_ G.P.M. \_\_\_\_\_ 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 [Signature]  
 By driller performing actual drilling on site or contractor  
 Date May 21, 1997

Date started 7/31/96, 19\_\_\_\_\_  
 Date completed 8-9-96, 19\_\_\_\_\_  
 7. WELL TEST DATA

TEST METHOD:  Bailer  Pump  Air Lift  
 G.P.M. \_\_\_\_\_ Draw Down (Feet Below Static) \_\_\_\_\_ Time (Hours) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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WELL DRILLER'S REPORT

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Page 2 of 3 pages  
 NOTICE OF INTENT NO. 10612

Consultant:  
 1. OWNER MONTGOMERY WATSON Client: ADDRESS AT WELL LOCATION ROCKETDYNE Former  
 MAILING ADDRESS 365 Lennon Lane Nevada Field Laboratory Area B  
Walnut Creek, CA 94598 800 Axe Handle Canyon Road, Palomino Valley  
 2. LOCATION DDA 1/4 1/4 Sec. 29 T. 22N N/S R21 E. Washoe County  
 PERMIT NOM/O 708 MW B-14B 076-150-01 Palomino Valley  
Issued by Water Resources Parcel No. Subdivision Name

3. WORK PERFORMED 4. PROPOSED USE 5. WELL TYPE

New Well  Replace  Recondition  Domestic  Irrigation  Test  Cable  Rotary  RVC  
 Deepen  Abandon  Other.....  Municipal/Industrial  Monitor  Stock  Air  Other.....

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
Continued from pg. 1				
weathered zone.				
@148ft: pyrite mineral grains and greenish staining observed on fractured surfaces.				
@ 150ft. boring flow rate - 5.5 gpm.				
@ 158-159 ft. soft, fractured zone.				
@ 162 ft. rock becomes very hard.				
@ 170 ft. boring flow rate - 6 gpm.				
@ 175 ft. chips of xenoliths noted.				
@ 181 ft. softer, slightly altered rock, grains of pyrite visible. Fractured surfaces are coated with a greenish colored build-up.				
@ 187 ft. weathered zone, with pyrite grains, and noticeable greenish coating.				
@ 190 ft. water flow from borehole - 7 gpm.				
192-195 ft. water producing fractured and weathered zone.				
GRANODIORITE: medium to coarse-grained as above. Composed of feldspar, quartz, and biotite, with trace grains of hornblende and pyrite. Highly weathered and fractured with common iron oxide staining and local alteration of biotite and the presence of clay in fractures.		7	350	343
200-201 ft. fractured zone with clay and iron oxide staining.				
@ 205 ft. water flow from borehole - 20 gpm.				
212-216 ft. soft zone with a green coating on fractured surfaces, pyrite and clay.				

8. WELL CONSTRUCTION

Depth Drilled 350 Feet Depth Cased 308 Feet

HOLE DIAMETER (BIT SIZE)  
 From ..... Inches ..... Feet ..... Feet  
 To ..... Inches ..... Feet ..... Feet  
 continued from casing schedule pg. 1

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
Steel centralizers at 70', 130', 190', 250', 308'.				
10 3/4 locking cap				

Steel end plate

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

Continued on pg. 3  
 Date started 7/31/96, 19.....  
 Date completed 8/9/96, 19.....

7. WELL TEST DATA

TEST METHOD:  Bailer  Pump  Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
98 APR 20 PM 2:03		

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 21, 1997

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 New Well  Replace  Recondition  Domestic  Irrigation  Test  Cable  Rotary  RVC  
 Deepen  Abandon  Other \_\_\_\_\_  Municipal/Industrial  Monitor  Stock  Air  Other \_\_\_\_\_

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
Continued from pg. 2				
254-256 ft. fractured zone with iron staining and clay. Groundwater production - 22gpm.				
256-261 ft. hard rock, no fracturing/staining, striations visable on fieldspar crystals.				
261-264 ft. fractured and altered zone, clay and iron staining common.				
@ 270 ft. water flow from borehole - 25gpm.				
280-285 ft. water producing fractured and weathered zone.				
285-306 ft. hard rock, some fracturing and staining, xenoliths noted.				
306-312 ft. rock is slightly softer than above, fractured surfaces have a slight green coating, and traces of pyrite.				
Groundwater production - 45 gpm.				
312-324 ft. hard rock, some fracturing and staining, xenoliths.				
326-330 ft. fractured zone with iron staining and clay. Groundwater production - 55gpm.				
330-339 ft. hard rock, some fracturing and staining, trace pyrite.				
339-341 ft. fractured zone.				
347-350 ft. harder rock with less alteration weathering. Groundwater production- 45gpm.				

8. WELL CONSTRUCTION  
 Depth Drilled 350 Feet Depth Cased 308 Feet  
 HOLE DIAMETER (BIT SIZE)  
 From \_\_\_\_\_ To \_\_\_\_\_  
 Inches \_\_\_\_\_ Feet \_\_\_\_\_  
 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  
 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 \_\_\_\_\_

Date started 7/31/96, 19\_\_\_\_\_  
 Date completed 8/9/96, 19\_\_\_\_\_

7. WELL TEST DATA

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

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 This well was drilled under my supervision and the report is true to the best of my knowledge.  
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