

WELL DRILLER'S REPORT

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

OFFICE USE ONLY  
 Log No. 417107  
 Permit No. \_\_\_\_\_  
 Basin 87-Tahoe/EE/MSADWS

PRINT OR TYPE ONLY  
 DO NOT WRITE ON BACK

NOTICE OF INTENT NO. 23712

1. OWNER Rancharrak Property ADDRESS AT WELL LOCATION 6001 Talbot Lane  
clo Kennedy Jenkins Consultants Reno, Nevada  
 MAILING ADDRESS 393 Second St. San Francisco, Ca.  
 2. LOCATION NW 1/4 SE 1/4 Sec 36 T. 19 N. R. 19 E Washoe County  
 PERMIT NO. M-0638 40-081-23 Subdivision Name 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 Auger

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
Sandy silt	N/A	1.5	4.5	Medium
Graded sand with silt	N/A	4.5	7	Loose
Sandy silt	N/A	7	9.5	Hard
Same	N/A	9.5	11.5	Hard
Clayey sand	N/A	11.5	13.5	M. Dense
Silty sand	N/A	13.5	16	M. Dense
Same	N/A	16	19.5	M. Dense
Sandy lean clay sand	N/A	19.5	22	Stiff
Same	N/A	22	24.5	M. Stiff
Lean clay	N/A	24.5	27	Stiff
Well graded gravel, silt & sand	N/A	27	29.5	M. Dense
Silty gravel	N/A	29.5	32	Dense
Same	33	32	34.5	Loose
Silty gravel		34.5	36	M. Dense
Poorly graded sand & gravel		36	38	M. Dense
Same		38	39	M. Dense
Clayey sand		39	40	Stiff

8. WELL CONSTRUCTION  
 Depth Drilled 40.0 Feet Depth Cased 40.0 Feet  
 HOLE DIAMETER (BIT SIZE)  
 From 10 Inches +2.5 Feet 40 Feet  
 To \_\_\_\_\_  
 N/A Inches \_\_\_\_\_ Feet \_\_\_\_\_  
 N/A Inches \_\_\_\_\_ Feet \_\_\_\_\_

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
4"	N/A	Sch. 40	+2.5	40

Perforations:  
 Type perforation PVC  
 Size perforation .020  
 From 39 feet to 40 feet  
 From N/A feet to \_\_\_\_\_ feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Surface Seal:  Yes  No Seal Type:  
 Depth of Seal 25  Neat Cement  
 Placement Method:  Pumped  Cement Grout  
 Poured  Concrete Grout  
 Gravel Packed:  Yes  No  
 From 27' feet to 40 feet

Date started 2/18 1993  
 Date completed 2/18 1993

9. WATER LEVEL  
 Static water level 33 feet below land surface  
 Artesian flow N/A G.P.M. unknown P.S.I.  
 Water temperature cold °F Quality unknown

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			
N/A			

10. DRILLER'S CERTIFICATION  
 This well was drilled under my supervision and the report is true to the best of my knowledge.  
 Name Hedman Drilling Co Contractor  
 Address P.O. Box 726 Contractor  
Lincoln, Ca. 95648  
 Nevada contractor's license number issued by the State Contractor's Board 0033492  
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller M1846  
 Signed Steve Hedman  
 By driller performing actual drilling on site or contractor  
 Date 6/28/93

# Boring & Well Construction Log

1924 106 4170  
Kennedy/Jenks Consultants

<b>BORING LOCATION</b> RANCHARRAH PROPERTY, RENO, NEVADA		<b>Boring/Well Name</b> HW-6	
<b>DRILLING COMPANY</b> Wayne Drilling Company		<b>DRILLER</b> W. Taylor	
<b>DRILLING METHOD(S)</b> Hollow Stem Auger		<b>DRILL BIT(S) SIZE</b> 10-inch O.D.	
<b>ISOLATION CASING</b> NONE		<b>Project Name</b> STANHARRAH	
<b>BLANK CASING</b> 4-INCH SCHEDULE 40 PVC		<b>Project Number</b> 922524.01	
<b>PERFORATED CASING</b> 4-INCH SCHEDULE 40 PVC (0.02-SLOT)		<b>ELEVATION AND DATUM</b> 4530.23	
<b>SIZE AND TYPE OF FILTER PACK</b> #3 LONESTAR SAND		<b>TOTAL DEPTH</b> 40.0 FT.	
<b>SEAL</b> 1/4-INCH BENTONITE PELLETS		<b>DATE STARTED</b> 2/18/93	
<b>GROUT</b> PORTLAND CEMENT/2% BENTONITE POWDER		<b>DATE COMPLETED</b> 2/18/93	
		<b>STATIC WATER ELEVATION</b> 4501.28	
		<b>NORTHING</b> 10284.610	
		<b>EASTING</b> 10235.800	
		<b>SAMPLING METHODS</b> Split-spoon	
		<b>WELL COMPLETION</b> <input type="checkbox"/> SURFACE HOUSING <input checked="" type="checkbox"/> STAND PIPE 3.5 FT.	

SAMPLES			Drill Depth (Feet)	WELL CONSTRUCTION		USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/ft		Stand pipe	Well cap				
									<b>TOPSOIL</b>
	0.5	4				ML	5YR 3/4		<b>SANDY SILT:</b> MODERATE BROWN, 40% TO 50% FINE GRAINED SAND, 10% CLAY, STIFF, SLIGHTLY MOIST, LOW PLASTICITY
A	1.25	17	5			SW-SM	10YR 5/4		<b>WELL GRADED SAND WITH SILT:</b> GRAYISH ORANGE, FINE TO COARSE SAND, ANGULAR TO SUBANGULAR, VERY DENSE, DRY
		24			GROUT				
	0.5	1				ML	10YR 7/4		<b>SANDY SILT:</b> GRAYISH ORANGE, FINE SAND WITH 15% MEDIUM SAND, SUBANGULAR, HARD, DRY
		24			BLANK CASING				
B	1.0	4	10			ML	10YR 5/4		<b>SANDY SILT:</b> MODERATE YELLOWISH BROWN, 20% FINE SAND SUBANGULAR, 10% MEDIUM SAND, 15% CLAY, HARD, SLIGHTLY MOIST
		14							
	1.0	5				SC	10YR 5/4		<b>CLAYEY SAND:</b> MODERATE YELLOWISH BROWN, FINE SAND, MEDIUM DENSE, MOIST, POORLY GRADED, MOIST
		7							
		10				SM	10YR 5/4		<b>SILTY SAND:</b> MODERATE YELLOWISH BROWN, FINE SAND WITH 50% MEDIUM TO COARSE SAND, ANGULAR TO SUBANGULAR, MEDIUM DENSE, MOIST
C	1.25	8	15						
		9				SM	10YR 5/4		<b>SILTY SAND:</b> MODERATE YELLOWISH BROWN, FINE SAND, POORLY GRADED, MEDIUM DENSE, MOIST
		9							

# Boring & Well Construction Log

743 of 4 Log 41710  
Kennedy/Jenks Consultants

Project Name		STANHARRAH		Project Number		922524.01		Boring/Well Name		HW-6	
SAMPLES			D/B Depth (Feet)	WELL CONSTRUCTION		USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS		
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/ft									
			5								
	1.25		7			SM					SAME AS ABOVE
			7								
D			20								
	1.0		4			CL		10YR 5/4			<b>SANDY LEAN CLAY TO LEAN CLAY WITH SAND:</b> MODERATE YELLOWISH BROWN, 20% FINE SAND WITH 10% MEDIUM SUBANGULAR SAND, STIFF, MOIST
			5								
			9								
			25								
	1.0		4			CL		5YR 3/4			<b>SANDY LEAN CLAY TO LEAN CLAY WITH SAND:</b> MODERATE BROWN, 20% FINE SAND, POORLY GRADED, MEDIUM STIFF, VERY MOIST
			5								
			4								
E			25								
	1.25		6			CL		10YR 5/4			<b>LEAN CLAY:</b> MODERATE YELLOWISH BROWN, 10% FINE SAND, 25% SILT, LOW PLASTICITY, VERY STIFF, MOIST
			7								
			11								
			30								
	1.5		10			GW-GM		10YR 5/4			<b>WELL GRADED GRAVEL WITH SILT AND SAND:</b> MODERATE YELLOWISH BROWN, 30% FINE SAND, 20% FINE GRAVEL, 20% MEDIUM GRAVEL, SUBROUNDED TO ROUNDED, WELL GRADED, MEDIUM DENSE, MOIST
			12								
			16								
F			30								
	1.5		13			GM		10YR 7/4			<b>SILTY GRAVEL:</b> GRAYISH ORANGE, 20% FINE SAND, WELL GRADED FINE TO COARSE GRAVEL, SUBANGULAR TO SUBROUNDED, 20% FINE, 30% MEDIUM, 30% COARSE, DENSE, MOIST
			27								
			20								
			35								
	1.5		4			SM		10YR 5/4			<b>SILTY SAND:</b> MODERATE YELLOWISH BROWN, FINE SAND, POORLY GRADED, LOOSE, VERY MOIST
			4								
			5								
G			35								
	1.5		4			GM		10YR 5/4			<b>SILTY GRAVEL:</b> MODERATE YELLOWISH BROWN, 20% FINE SAND, MEDIUM TO COARSE GRAVEL, WELL GRADED, SUB ANGULAR TO ROUNDED, MEDIUM DENSE, WET, CHERT FRAGMENTS
			9								
			11			SP		10YR 5/4			<b>POORLY GRADED SAND WITH GRAVEL:</b> MODERATE YELLOWISH BROWN, FINE SAND WITH 20% MEDIUM SAND, 30% FINE GRAVEL, SUBROUNDED TO ROUNDED, MEDIUM DENSE, WET
			7								
	1.5		8			SP		10YR 5/4			<b>POORLY GRADED SAND:</b> MODERATE YELLOWISH BROWN, FINE TO MEDIUM SAND, 10% COARSE SAND, SUBROUNDED, MEDIUM DENSE, WET
			13								
			40			SC		10YR 5/4			<b>CLAYEY SAND:</b> MODERATE YELLOWISH BROWN, FINE TO MEDIUM SAND, VERY STIFF, POORLY GRADED, VERY MOIST

Project Name <b>STANHARRAH</b>			Project Number <b>922524.01</b>			Boring/Well Name <b>HW-6</b>		
SAMPLES			Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/8"						

**NOTES:**

1. All dashed contacts are approximate.
2. Vertical scale is 1 inch = 2.5 feet.
3. Soil samples collected with 2.5-inch California split-spoon samplers.
4. Soil classified in accordance with Unified Soil Classification System, ASTM D-2488-90.
5. Color designation in accordance with the Munsell Rock Color Chart (Geological Society of America, 1984).
6. 4-inch Schedule 40 PVC groundwater monitoring well installed upon completion of boring.
7. Static water elevation measured 3/1/93.