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

OFFICE USE ONLY
Log No. 119509
Permit No.
Basin 007
Well ID# CTM-131

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. 70787

1. OWNER Washoe County
MAILING ADDRESS 4930 Energy Way
Reno, NV 89502

ADDRESS AT WELL LOCATION Mill St and Kitzke
City of Reno Row/NDOT Row
Subdivision Name: 3 County:

2. LOCATION NE ¼ SE ¼ Sec 12 T 19 N/S R 19 E
PERMIT/WAIVER No.
Issued by Water Resources Parcel No.

Latitude 39.524433 UTM E 89524.98 ☐ NAD 27
Longitude 119.791358 N 119.789332 ☒ NAD 83/WGS 84

3. WORKED PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Other

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☒ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☐ Rotary ☐ RVC
☐ Air ☒ Other Sonic

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
See Attached form				
Nad 27 39.524522°N 119.790334°W				

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Date started: 11-7-13, 20 13
Date completed: 11-8-13, 20 13

7. Water Level
Static water level: N/A feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: °F
Quality:

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

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

9. WELL CONSTRUCTION
Depth Drilled 72' Feet Depth Cased 71' Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
10"	Inches	0	Feet	72'	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2"	Sch 80	PVC	0	45'
2"	Sch 80	PVC	0	71'

Perforations:
Type of perforation Factory Cut
Size of perforation 0.20
From 40' feet to 45' feet
From 61' feet to 71' feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☐ Neat Cement to ☐ Pumped ☐ Poured
☐ Cement Grout 0 to 35' ☒ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured

Gravel Pack: ☒ Yes ☐ No 59 to 72 ☐ Pumped ☒ Poured
Type: #3
Bentonite Chips: ☐ Yes ☐ No 35 to 59 ☐ Pumped ☒ Poured
Type: MEDIUM chips 3/8

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Cascade Drilling LP. (Contractor)
Address 1333 W 9th St (Contractor)
Upland, CA 91786
Nevada contractor's license number issued by the State Contractor's Board 73966
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 2475
Signed [signature] By driller performing actual drilling on-site or contractor
Date 11-8-13

(Rev 05-06)

USE ADDITIONAL SHEETS IF NECESSARY

(NSPO 3-08) (O) 627

CTMRD PROGRAM MONITORING WELL STRATIGRAPHIC LOG

Drilling Specifications:

Drilling Contractor: Cascade
Drilling Method: Sonic Rotary
Rig: Truck mounted Sonic
Driller: Alex Patricio
Boring Diam.: 10 in TD: 72 ft
Development Method:
Date Start: 11/7/13 End: 11/8/13

Well Specifications:

Location Description: W. side Gould St., N. of Mill
Coordinates: ft N ft E
Elevation: ft Survey Method:
Reference Pt. Description:
Well TD: 71 ft bgs Well Diameter: 2,2 in
Screen Interval: (40-45) (61-71) ft bgs
First Water: 50 ft bgs Static Water at completion: ft bgs

WELL ID: CTM-131
Project: Mill Kietzke PSA
Page 1 of 2
LOGGED BY: B. Kearney

Depth	Density/ Consistency	Moisture	Plasticity	Cohesiveness	Transmissivity	Color	Boulder %	Cobble %	Gravel %	Sand %	Silt %	Clay %	USCS Classification	Weathering/ Oxidization	Grading	Angularity	Matrix/Clast-Supported	Clast Lithology	Sedimentary Structure	Depositional Environment	Stratigraphic Contact	PID/Samples	Lithology	Description
0																								
																		G-20 B-60 A-20						hand cleared 5'bgs
5	L	D	NP	NC	H	7.5YR 4/1		20	40	30	10		GW-GM		WG	SR	MX		M	GOW	G	6.6		dark grey well graded gravel w/ silt and sand, gravel is vf-vc, incl. cobbles to 6", sand is vf-vc, esp. m-vc
10																						2.1		
15	VL	M	NP	NC	H	7.5YR 3/2		tr	20	70	10		SP-SM		PG	SR	MX	B-80 A-20	M	FLUV	G	5.3		dark reddish brn poorly graded sand w/ silt and gravel, sand is vf-vc, esp. m, gravel vf-c
	L	M	NP	NC	H	7.5YR 4/2		5	40	45	10		GW-GM		WG	SR	MX	B-80 A-20	M	GOW	G	11.0		brown well graded gravel w/ silt and sand, gravel is vf-vc, esp. c-vc, sand is vf-vc, esp. m-c
20																						3.4		
	L	M	NP	NC	H	7.5YR 4/1		5	40	35	10	10	GM		WG	SR	MX	B-70 A-20 R-10	M	GOW	G			dk. grey silty gravel w/ sand, gravel is vf-vc, esp. vc, w/ trace cobbles to 6", sand vf-vc, esp. m-c
25																						12.6		
	L	M	LP	C	L	10YR 4/2		tr	30	30	20	20	GC		WG	SA-SR	MX	B-70 A-30	M	FLUV	G			dk. greyish brown clayey gravel w/ sand, gravel is vf-vc, esp. c, sand vf-vc, esp. vf-f
30																						21.1		

Note: Description section to be used to complement and provide additional information to supplement column descriptors to the left, identify any samples collected, and describe any particulars associated with drilling behavior.

Log 18504

CTMRD PROGRAM MONITORING WELL STRATIGRAPHIC LOG

WELL LOCATION: W. Side Gould St., N. of Mill

LOGGED BY: B. Kearney

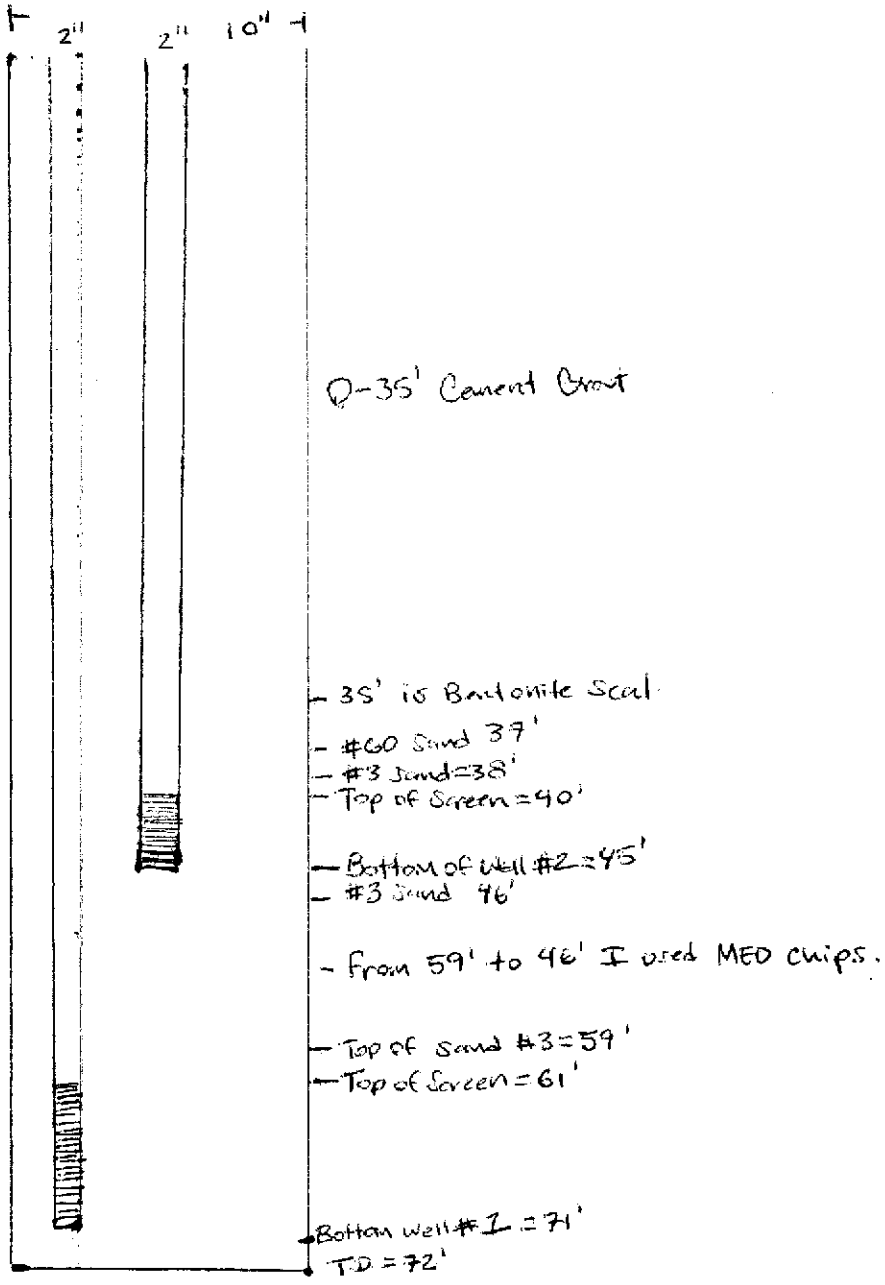
Well ID: CTM-131

Project: Mill Kietzkie PSA

Depth	Engineering Properties: Density/Consistency	Moisture	Plasticity	Cohesiveness	Transmissivity	1° Description: Color	Boulder %	Cobble %	Gravel %	Sand %	Silt %	Clay %	USCS Classification	2° Effects: Weathering/Oxidization	Depositional Properties: Grading	Angularity	Matrix/Clast-Supported	Clast Lithology	Sedimentary Structure	Depositional Environment	Stratigraphic Contact	Graphics: PID/Samples	Lithology	Description
30	VL	M	NP	NC	H	10YR 6/2		10	20	40	20	10	SM		WG	SA	MX	B-80 A-20	M	GOW	G			light brownish grey silty sand w/gravel, sand is vf-vc, esp. vf, gravel is vf-vc, esp. m-c
35																						5.9		
	VL	M	NP	NC	H	10YR 4/2			30	40	20	10	SM		WG	SA	MX	B-80 A-20	M	GOW	G			dk. greyish brown silty sand w/gravel, sand is vf-vc, esp. f-m gravel vf-vc
40	L	M	MP	C	L	4/4			10	30	30	30	CL		PG	SR	MX		M	FLUV	S	6.4		dk. yellow brn. sandy lean clay, gravel is vf-vc
	L	M	NP	NC	H	10YR 5/3			tr	70	20	10	SM							FLUV	S			brown silty sand, tr. gravel vf-f
45	L	M-W	LP	C	L-M	10YR 5/3	tr	10	20	20	30	20	GC		WG	SR	MX	B-60 A-30 G-10	M	FLUV	G	3.6		brown clayey gravel w/ sand, gravel is vf-vc, incl. cobbles to 6" and tr. boulders, sand is vf-vc
50																						2.7		▽ 1st water ~50' bgs
55																						4.6		
	L	W	LP	C	M	10YR 5/2		tr	30	30	20	20	GC		WG	R-SR	MX	B-60 A-40	M	FLUV	G			greyish brown clayey gravel w/ sand, gravel is vf-vc, esp. c. sand vf-vc, esp. c-vc
60																						4.1		
65	L	W	LP	C	M	10YR 5/3			20	40	20	20	SC		WG	SR-R	MX	B-60 A-40	M		G			brown clayey sand w/ gravel, sand is vf-vc, esp. m-c, gravel is vf-vc, esp. f-m
70	L	W	LP	C	M-H	10YR 5/2		\	10	80	10		SP-SM	O 10YR 4/6	PG				M FU		S	5.8		greyish brown poorly graded sand w/ silt, sand is vf-f, some oxidation in the sandy lenses, coarsening to 72', TD 72'

72 - TD

Log 114509

CTM-131

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