ASG - VP23

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

OFFICE USE ONLY
Log No. 119715
Permit No.
Basin 087

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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. 69063

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

ADDRESS AT WELL LOCATION Wells AVE
at Casazza AVE
Subdivision Name: County:

2. LOCATION SE ¼ SW ¼ Sec 13 T 19 N/S R 19 E
PERMIT/WAIVER No. Issued by Water Resources Parcel No.

Latitude 39.5072491 UTM E ☐ NAD 27
Longitude -119.8030028 N ☒ 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				

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Nad 27
39.5073380 N
119.8019790 W

Date started: 2-28, 20 14
Date completed: 3-03, 20 14

9. WELL CONSTRUCTION
Depth Drilled 36 Feet Depth Cased ~~36~~ 35 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
10	Inches	0	Feet	36	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2	.932	.218	0	35
2	.932	.218	0	35

Perforations:
Type of perforation Slot
Size of perforation .020
From 30 feet to 35 feet
From 20 feet to 25 feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☒ Neat Cement 0 to 16 ☐ Pumped ☒ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured

Gravel Pack: ☒ Yes ☐ No 28 to 36 ☐ Pumped ☒ Poured
Type: #3 18 26
Bentonite Chips: ☒ Yes ☐ No 26 to 28 ☐ Pumped ☒ Poured
Type: 3/8 16 18

7. Water Level
Static water level: 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)

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 3000 Duluth West Sacramento CA 95691
Contractor

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 2425

Signed Jason Hernandez
By driller performing actual drilling on-site or contractor
Date ~~2-2~~ 3-04-2014

(Rev 05-08)

USE ADDITIONAL SHEETS IF NECESSARY

(NSPO 3-08) (O) 627

CTMRD PROGRAM MONITORING WELL STRATIGRAPHIC LOG

Drilling Specifications:

Drilling Contractor: Cascade
Drilling Method: Sonic
Rig: Spider
Driller: Jason Hernandez
Boring Diam.: 10 in TD: 36 ft
Development Method: N/A
Date Start: 2/25/14 End: 2/28/14

Well Specifications:

Location Description: East side of S. Wells, S. of Casazza
Coordinates: — ft N — ft E
Elevation: — ft Survey Method: —
Reference Pt. Description: —
Well TD: (25', 35') ft bgs Well Diameter: 2 in
Screen Interval: (20-25, 30-35) ft bgs
First Water: 26 ft bgs Static Water at completion: ft bgs

WELL ID: VP-23 (ASG)
Project: Vassar E Plumb 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																								12" asphalt, 12" road base, hand dug 0-5'
	L	D	NP	C	M-L	10YR 5/4	10	20	25	30	10	5	GM		WG	SA	MX		M	GOW	G			yellowish brn. silty gravel w/ sand, gravel vf-vc, sand vf-vc
5 (2/28/14)																						10.1		
	VL	D	NP	NC	H	2.5Y 6/2	tr	10	20	40	20	10	SM		WG	SR	MX		M	GOW	G			lt. brownish gray silty sand w/ gravel, sand vf-vc, gravel vf-vc
10																						31.7		
	VL	D	NP	NC	H	multi 10YR 4/4	-	tr	10	90	tr	-	SP		PGu	SR-SA	MX		M	FLW	G			multicolored sand poorly graded sand vf-vc, v. clean & well sorted
15		M																				85.9		
																						13.9		
20	VL	M	NP	NC	H	10YR 4/2	10	10	30	30	20	tr	GM		WG	SR	MX		M	GOW	G			dk. grayish brown silty gravel w/ sand, gravel vf-vc, sand vf-vc
	VL	M	NP	NC	H	multi 10YR 4/3	-	-	30	70	tr	-	SP		PGu	SR-SA	MX		M	FLW	G			multi colored poorly graded sand, vf-vc, w/ gravel, gravel vf-vc
25	VL	M	NP	NC	H	10YR 6/2	tr	20	50	30	-	-	GP		PGg	R-SR	C		M	GOW	G	23.4		lt. brownish gray poorly graded gravel w/ sand, gravel vf-vc, sand vf-vc
		W																						1st water 26', 12:45, 2/28/14
																						16.9		
30																								

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.

CTMRD PROGRAM MONITORING WELL STRATIGRAPHIC LOG

WELL LOCATION: E. side of S. Wells, S. of Casazza

LOGGED BY: B. Kearney

Well ID: ASG-VP-23

Project: Vassar E. Plumb

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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																								as above
	VL	W	NP	NC	H		-	30	70	tr	-	-	GP		PGu	R	C		M	ELW	S			poorly graded gravel, m-vc
35	VL	W	NP	NC	M-H	2.5Y 5/3	-	10	30	30	20	10	GM		WG	SR	MX		M	GOW	G	16.6		lt. olive brown silty gravel w/ sand, gravel vf-vc, sand vf-vc
																								boring TD at 36', 13:30, 2/28/14

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.

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C:\Users\bkearney\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\AT1DZ542\CTMRD_Strat.Field_LOG with descriptors

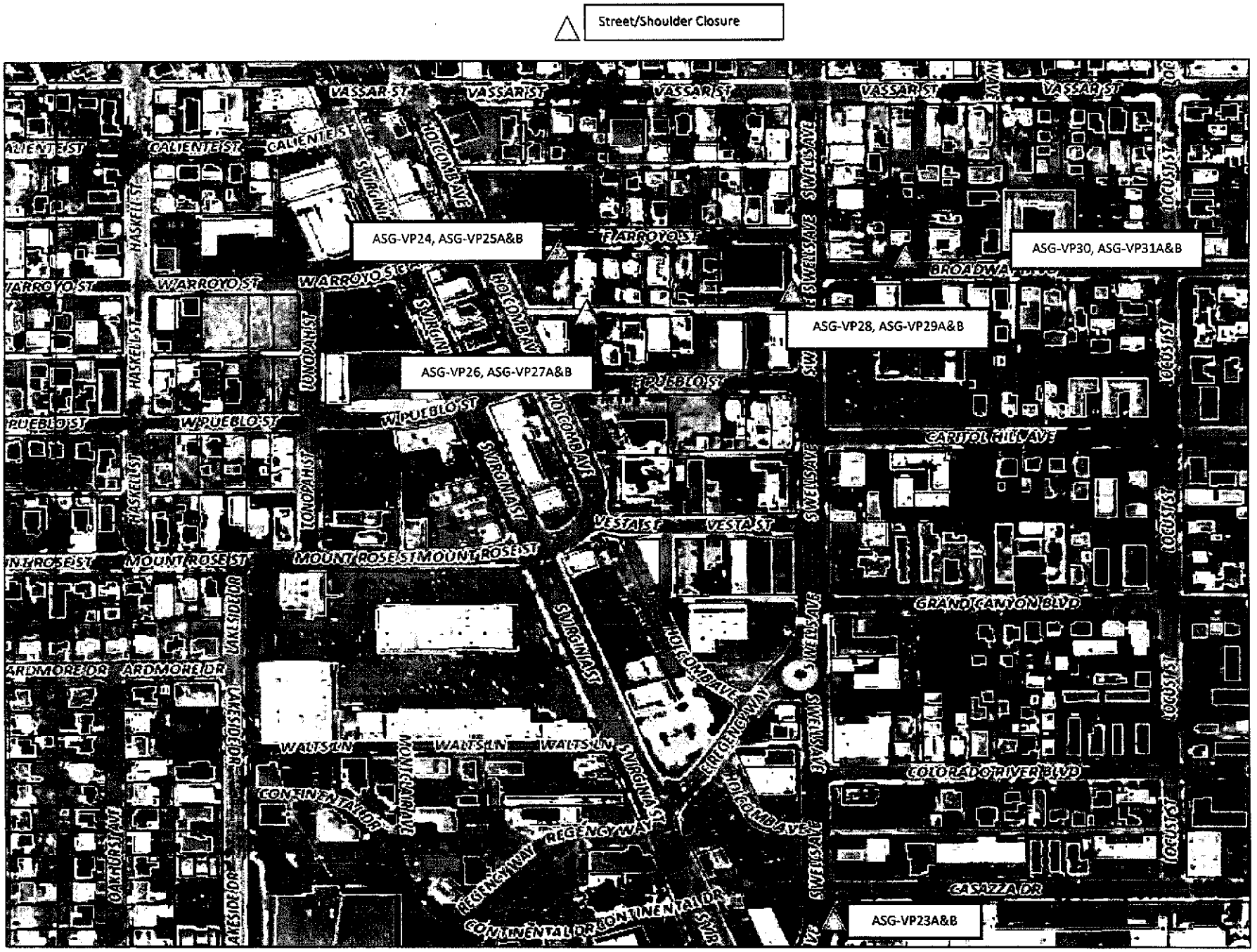

FIGURE 1. VASSAR/EAST PLUMB PSA, PHASE III WELLS: ASG-VP23 – ASG-VP31A&B

N

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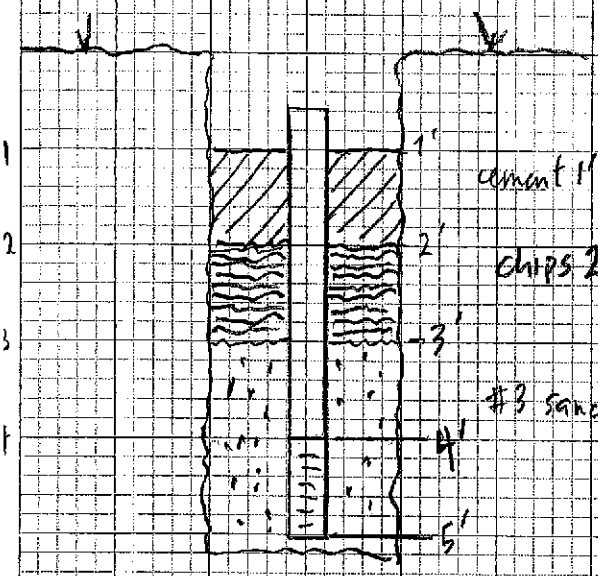
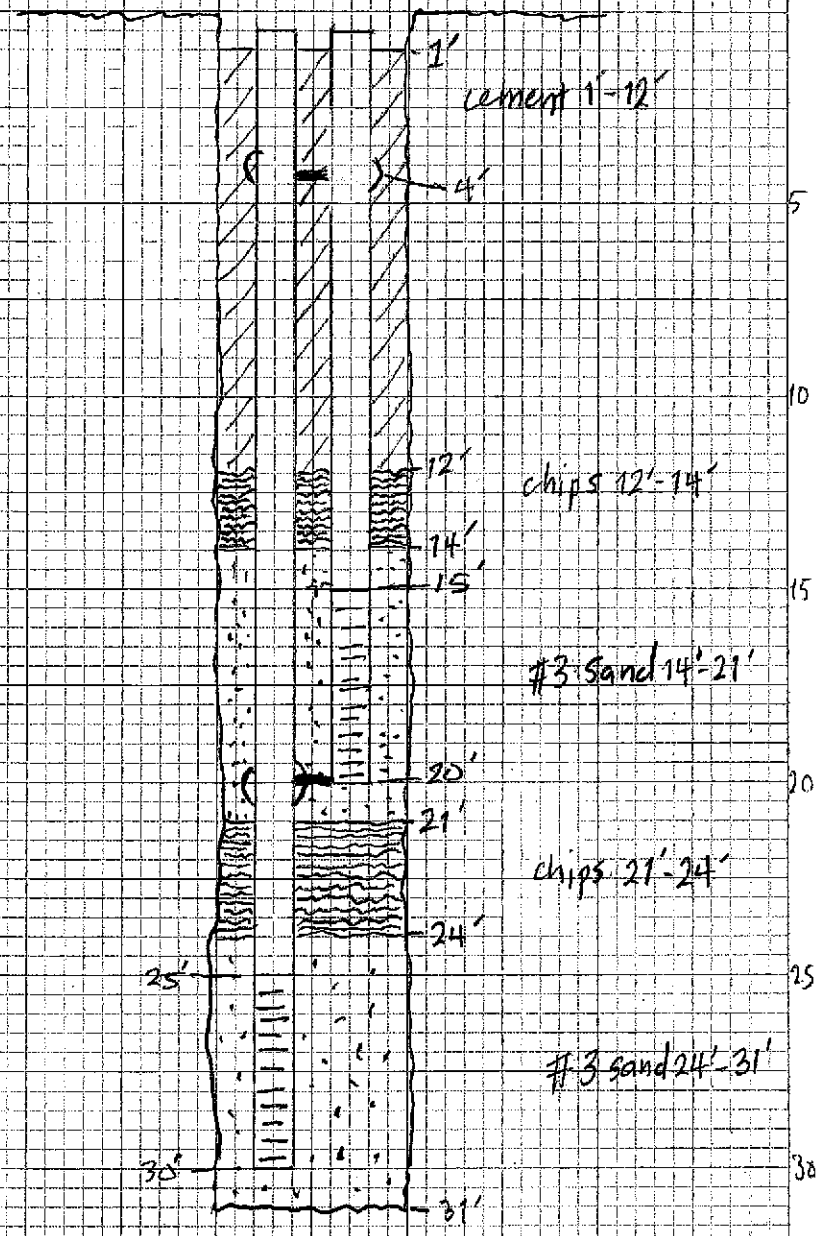
Design for ASG Wells

log #9715