ASG-MK 25B

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

OFFICE USE ONLY
Log No. 118911
Permit No.
Basin 057

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. 69322

1. OWNER WASHOE COUNTY
MAILING ADDRESS 4930 ENERGY WAY
RENO, NV

ADDRESS AT WELL LOCATION E. SIDE OF SUNSHINE BETWEEN SUNSHINE / ZING
Subdivision Name: County: WASHOE

2. LOCATION SW ¼ SW ¼ Sec 7 T 19 N/S R 20 E
PERMIT/WAIVER No. CITY ROW
Issued by Water Resources Parcel No.

Latitude 39 31 22.54
Longitude 119 47 16.34
UTM E ☐ NAD 27
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 ATTATCHED				
LITH LOG				

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NAD27
39.523014°N
119.786849°W

Date started: 9-10-13, 20 13
Date completed: 9-10-13, 20 13

7. Water Level
Static water level: Ø 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 ~~10~~ 26 Feet Depth Cased ~~26~~ 25 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
10	Inches	0	Feet	26	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2		SHC 80 PVC	0	25

Perforations:
Type of perforation FACTORY SLOT
Size of perforation .020
From 25 feet to 20 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☐ Yes ☐ No
☒ Neat Cement 16 to 1 ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured

Gravel Pack: ☒ Yes ☐ No 20 to 18 ☐ Pumped ☒ Poured
Type: 10x20 SILICA
Bentonite Chips: ☒ Yes ☐ No 18 to 16 ☐ Pumped ☒ Poured
Type: MEDIUM

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
Contractor
Address 230 E SYDNEY DR
Contractor
McCARRON, NV
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 2434 M
Signed [signature]
By driller performing actual drilling on-site or contractor
Date 9-15-13

(Rev. 05-06)

USE ADDITIONAL SHEETS IF NECESSARY

(NSPO 3-08) (O) 627

Log# 118410-118411

CTMRD PROGRAM MONITORING WELL STRATIGRAPHIC LOG

Drilling Specifications:

Drilling Contractor: Cascade
Drilling Method: Sonic
Rig: Sonic
Driller: KEN
Boring Diam.: 10 in TD: 36 ft
Development Method:
Date Start: 8/27/13 End: 9/3/13

Well Specifications:

Location Description: E/S/O Sunshine BTWN Prosperity & Zinc
Coordinates: ft N ft E
Elevation: ft Survey Method:
Reference Pt. Description:
Well TD: 35 / 75 ft bgs Well Diameter: 2 in
Screen Interval: 30/35 & 20/25 ft bgs
First Water: — ft bgs Static Water at completion: — ft bgs

SEAL OF WASHOE COUNTY STATE OF NEVADA

WELL ID: ASG-MK25 A&B
Project: 135534
Page 1 of 2
LOGGED BY: M. OWENS

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
0																							
	MD	M	N	N	M-H	5yr 3/1	1	15	15	50	20		SM		PG	R-A	M	B-80 A-20	M	F	G	0.0	
	MD	M	N	N	H	5yr 3/2			5	70	25		SM		PG	R	M	B-100	M	F	G	0.0	
5	MD	M	N	N	H	5yr 3/3	5	15		60	20		SM		PG	R	M	G-50 B-50	M	F	G	0.0	
	D-MD	M	NP	NC	H	10yr 3/2	1	15	24	60	0		SP		PG	R-SA	MTX	G-40 B-20 A-40	MU	FN	G	1.9	
10																						1.4	
15																						16.6	
20	D	M	NP	NC	H	10yr 3/2	1	14	35	40	10		SP-SM		PG	R-SA	M	B-80 A-20	MU	F	G	3.0	
	D	M	NP	NC	H		0	0	25	60	15		SP		PG	A-SA		B-80 G-20	MU	F			
25	D	M	NP	NC	H		0	25	50	25	0	0	GP		PG	R	C	B-100	MU	F	G	3.0	
						10yr 4/2		10	25	75	0	0	SP		PG	A-R	M	B-100	MU	F			
	MD	M	NP	NC	H					100			SP		PG	A SA	M	—	MU	F	G		
30	MD	M	NP	NC	H		0	0	10	25	65		SP		PG	SR-R	M	B-100	MU	F	G	0.4	

Description

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.

SURFACE CONDITION: ASPHALT
6" ASPHALT
Silty SAND w/Gravel & Cobbles, F-C SAND, F-C gravel to 3", Cobbles up to 4"
2-3 Drk Red Brn 5yr 3/3 Silty SAND w/Trace Gravel, F-C SAND w Trace F gravel Supported by SM matrix,
3-5 Drk Red Brn, 5yr 3/3 Silty SAND w Cobbles & Boulders
12" BASALT BLDR.
5-18 V. Drk. Gry. Br PGS w Grav & Cobbles, Bldrs, F-C SA Sand, F-C SA-R Gravel, SR-R Cobb (to 6"). 1 Bldr @ 5' - Basalt,
Basalt Bldr
Granite Bldr - Pegmatitic Granite Bldr
PID due to Bag
* Color is Due to Rock Flour Matrix is SP as above,
Granitic Bldr
Gr. Bldr
18-20 PGS w Silt, grav, Cobb, F-C Ang Sand, V. Drk. Gry. Br F-C R-A gravel, Cobbles SA-R, 1 Granitic Bldr
20-21 V. Drk, Gray Br, PGS w/Gravel F-C Sand (Ang), F-C gravel to 3" (SA)
21-23 PGS w Sand & Cobb - F-C Sand F-C grav (to 3")
23-27 PGS w Silt grav & Cobb F-C Sand F-C Gravel to 3"), Cobbles to 6"
27-29 PGS F-C Sand
29-30 PGS F-C Sand, F-C Gravel to 3" Cobbles to 6"
Ang Sand SR-R

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CTMRD PROGRAM MONITORING WELL STRATIGRAPHIC LOG

WELL LOCATION: E/S/O SUNSHINE BTWN PROSPERITY & ZINC

LOGGED BY: M. OWENS

Well ID: ASG-MK 25 A&B

Project: 135574

Depth	Engineering Properties: Density/ Consistency	Moisture	Plasticity	Cohesiveness	Transmissivity	1º Description: Color	Boulder %	Cobble %	Gravel %	Sand %	Silt %	Clay %	USCS Classification	2º Effects: Weathering/ Oxidization	Depositional Properties: Grading	Angularity	Matrix/Clast-Supported	Clast Lithology	Sedimentary Structure	Depositional Environment	Stratigraphic Contact	Graphics: PID/Samples	Lithology	Description
30						7.5YR 4/3																		AS ABOVE
35	MD D	M	NP	NC	H	7.5YR 4/3	0	5	35	40	20		SM	—	PG	A-R	MX	G-60 B-20 A-20	FN	MW	G	4.5		32-36 Brn, silty sand w Grav-Cobbles, F-C Ang sand F-C SA-R Grav (to 3"), cobbles to 6"-SA-R.
36																								

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