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

OFFICE USE ONLY
Log No. 124415
Permit No.
Basin 072
well name MW 21

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. 74235

1. OWNER Travel Centers of America LLC
MAILING ADDRESS 24601 Center Ridge RD. Westlake, OH 44145

ADDRESS AT WELL LOCATION 6000 East Frontage RD. Mill City, NV.
Subdivision Name: County: Pershing

2. LOCATION SW ¼ NW ¼ Sec 33 T 33 N/S R 35 E
PERMIT/WAIVER No. M10-2035 (Issued by Water Resources) 008-130-01 Parcel No.
Latitude 40°.693444" Longitude -118°.056496"
UTM E N
☒ NAD 27 ☐ 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 Auger

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
SEE Attached				

Date started 2-16, 20 16
Date completed 2-17, 20 16

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)

9. WELL CONSTRUCTION
Depth Drilled 75' Feet Depth Cased 75' Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
8	Inches	0	Feet	75'	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 40 PVC	0'	75'

Perforations:
Type of perforation Manufactured Slot
Size of perforation 010
From 55' feet to 75' feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal ☒ Yes ☐ No
☒ Neat Cement 0 to 33' ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 53' to 75' ☐ Pumped ☒ Poured
Type: 2/12 Sand
Bentonite Chips: ☒ Yes ☐ No 33' to 53' ☐ Pumped ☒ Poured
Type: Bentonite chips

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Gregg Drilling. (Contractor)
Address 950 Howe Ave Martinez CA 94553 (Contractor)
Nevada contractor's license number issued by the State Contractor's Board 38113
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 2354-M
Signed (By driller performing actual drilling on site or contractor)
Date 2-17-16

USE ADDITIONAL SHEETS IF NECESSARY

Bore ID:	MW-[redacted]21	Plunge:	—	Logged By:	C. PARK
Total Depth:	76.5'	H/V Datum:	—	Drilling Equipment:	MARL M-10
Depth to Rock/Coring:	NA	Latitude/Northing:	40.693444	Drill Bit Size/Type:	8"
Date Begin-End:	2/16/2016	Longitude/Easting:	-118.0564967	Bore Diameter:	8"
Surface Condition:	ASPHALT	Elevation:	—	Drilling Method:	H.S.A
Weather:	BREEZY/WARM	Drilling Company:	GREGG	Hammer Type:	AUTO
Groundwater During:	51.5	Driller License #:	—	Hammer Drop/Weight:	30"/140lbs
Groundwater After:	57.83'	Drill Crew:	ERIC, DAVID, BLAZE	Hammer Eff./Cal. Date:	

Depth	Drilling Method	Sample Type Sym.	Blows Per 6"	Recovery	Sample Number	PID/FID	USCS Symbol	Soil Type, Particle-Size Range, Particle Angularity, Particle Shape, Density/Consistency, Plasticity, Color, Odor, Moisture, Reaction to HCL, Structure, Cementation	Backfill	Well Construction	Backfill	Well Completion: Description
0	SAFE DIG							ASPHALT 1 [illegible]" CONCRETE WITH BAR 4"				LJ PLUG
1								SILTY SAND W GRAVEL AND COBBLES				•8" TRAFFIC RATED WELL VAULT WITH CONCRETE COLLAR
2								MOIST BROWN				
								NO ODOR NO STAINING				
3												
4												
5			8	18	1-3	1.3	ML	SANDY SILT, M STIFF, MOIST BROWN		2" SCH 40		•BENTONITE CONCRETE SLURRY
6			8					MASSIVE NO ODOR/STAINING				
			6									
7	H.S.A.											
8												2" SCH 40 PVC RISER PIPE WITH THREADED JOINTS
9												
10			9	18	2-3	0.9	ML	SAME AS ABOVE INTERBEDDED				
11			11					SANDY GRAVEL LENSES				
			12									
12												
13												
14												
15			21	16	3-3	2.8	ML	SAME AS ABOVE INCREASED SAND				
16			29					AND GRAVEL				
			25									
17												
18												
19												
20												

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PROJECT NO.: 20163102
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ENVIRONMENTAL FIELD LOG

Project Name: TA MILL CITY NEVADA
Address:
City/County, State: MILL CITY NEVADA Page: 1 of 4

[FIELD LOG - ENVIRONMENTAL FIELD LOG]

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Bore ID:	MW-	Plunge:	—	Logged By:	C. PARK
Total Depth:	76.5'	H/V Datum:	—	Drilling Equipment:	MARL M-10
Depth to Rock/Coring:	NA	Latitude/Northing:	SEE PG-1	Drill Bit Size/Type:	8"
Date Begin-End:	2/16/2016	Longitude/Easting:	(	Bore Diameter:	8"
Surface Condition:	ASPHALT	Elevation:	)	Drilling Method:	H.S.A
Weather:	SEE PG-1	Drilling Company:	GREGG	Hammer Type:	AUTO
Groundwater During:	(	Driller License #:		Hammer Drop/Weight:	30" / 140 lbs
Groundwater After:	)	Drill Crew:	ERIC, BLAKE, DAVID	Hammer Eff./Cal. Date:	

Depth	Drilling Method	Sample Type Sym.	Blows Per 6"	Recovery	Sample Number	PID/FID	USCS Symbol	Soil Type, Particle-Size Range, Particle Angularity, Particle Shape, Density/Consistency, Plasticity, Color, Odor, Moisture, Reaction to HCL, Structure, Cementation	Backfill	Well Construction	Backfill	Well Completion: Description
20			27	16	4-3	2.8	SM	SILTY SAND WITH OCCASIONAL LARGE				
21			31	(	(	(	(	GRAVEL, V DENSE, MOIST, BROWN				
			28					NO ODOR NO STAINING				
22	H.											BENTONITE CONCRETE SLURRY
23	S.											
24	A.											
25			18	18	5-3	0.0	SM	SILTY SAND, DENSE, MOIST, BROWN		THREADED JOINTS		
26			17	(		(	(	MINOR BLOCKY STRUCTURE SOME				
			20					FE2O3 STAINING				
27												
28								SOFTER RAPID ADVANCE				
								FEWER COBBLES / GRAVEL				
29								THAN MW-23 & 24				
30			30	7	6-3	0.0	SM	SILTY SAND W GRAVEL, ~~DENSE~~, MOIST		2" SCH 40 PVC RISER		
31			29	(		(	(	GREY BROWN MASSIVE NO				
			50/3"					ODOR NO STAINING				
32												
33												
34												3/8" HOLEPLUG BENTONITE FREQUENTLY HYDRATED
35			20	18	7-3	0.0	SM	SILTY SAND, M DENSE, MOIST				
36			19	(			(	BROWN FINE GRAINED MINOR				
			18					PINHOLES NO ODOR NO STAINING				
37												
38												
39												
40												

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ENVIRONMENTAL FIELD LOG

Project Name: TA MILL CITY NEVADA
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City/County, State: MILL CITY NEVADA Page: 2 of 4

[FIELD LOG - ENVIRONMENTAL FIELD LOG]

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Bore ID:	MW-21	Plunge:	—	Logged By:	C. PARK
Total Depth:	76.5'	H/V Datum:	—	Drilling Equipment:	MARL MXD
Depth to Rock/Coring:	NA	Latitude/Northing:	SEE PG-1	Drill Bit Size/Type:	8"
Date Begin-End:	2/16/2016	Longitude/Easting:		Bore Diameter:	8"
Surface Condition:	ASPHALT	Elevation:		Drilling Method:	H.S.A
Weather:	CLEAR COOL	Drilling Company:	GREGG	Hammer Type:	AUTO
Groundwater During:	51.5'	Driller License #:		Hammer Drop/Weight:	30"/140lbs
Groundwater After:	~	Drill Crew:		Hammer Eff./Cal. Date:	

Depth	Drilling Method	Sample Type Sym.	Blows Per 6"	Recovery	Sample Number	PID/FID	USCS Symbol	Soil Type, Particle-Size Range, Particle Angularity, Particle Shape, Density/Consistency, Plasticity, Color, Odor, Moisture, Reaction to HCL, Structure, Cementation	Backfill	Well Construction	Backfill	Well Completion: Description
40			30	11	8-3	0.0	SM	SILTY SAND W GRAVEL SOME POORLY				
41			58					GRADED SAND SEAMS, V DENSE		2"		
			3					MOIST, DK BROWN NO ODOR/STAINING				
42	H.									S		
43	S.							INCREASED COARSE SOIL		CH.		
								— SLOW ADVANCE —				3/8"
44	A.									40		HOLEPLUG
45			28	18	9-3	0.0	SP	POORLY GRADED SAND W GRAVEL				BENTONITE
46			30					MINOR CEMENTATION, DENSE,		PVC		FREQUENTLY
			19					MOIST GREY BROWN				HYDRATED
47												
48										RISER		
49												
50			20	18	10-3	0.0	SM	SILTY SAND W GRAVEL, V DENSE				
51			20					MASSIVE, MOIST WITH FREE SPACE		THREADED		
			40					WATER OBSERVED W/SHOE, BROWN				
52												
53								FINER SOILS BINDING AUGER				#2/12
								DOUBLE DRILLED LENGTH TO		TOP		MONTEREY
54								CLEAN FLIGHTS				SAND
55			28	18	11-3	0.0	ML	SANDY SILT, V STIFF, MOIST, BROWN				
56			33					RED BROWN MODERATE CEMENTATION				0.010 IN.
			34					NO ODOR, NO STAINING POORLY				SLOTTED
57								DEFINED LAMINAR BEDDING IN CEMEN-				2" SCH 40
								TED ZONE MODERATE PLASTICITY				WELL SCREEN
58												THREADED
59												JOINTS
60												

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ENVIRONMENTAL FIELD LOG

Project Name: TA MILL CITY NEVADA
Address:
City/County, State: MILL CITY NEVADA Page: 3 of 4

[FIELD LOG - ENVIRONMENTAL FIELD LOG]

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Bore ID:	MW-21	Plunge:	—	Logged By:	C. PARK
Total Depth:	76.5'	H/V Datum:	—	Drilling Equipment:	MAZE M-10
Depth to Rock/Coring:	NA	Latitude/Northing:	SEE PG-1	Drill Bit Size/Type:	8"
Date Begin-End:	2/16-17/2016	Longitude/Easting:	((	Bore Diameter:	8"
Surface Condition:	ASPHALT	Elevation:		Drilling Method:	H.S.A
Weather:	CLEAR WARM	Drilling Company:	GREGG	Hammer Type:	AUTO
Groundwater During:	SEE PG-1	Driller License #:		Hammer Drop/Weight:	30" / 140 lbs
Groundwater After:	(	Drill Crew:	ERIC BLAKE DAVID	Hammer Eff./Cal. Date:	

Depth	Drilling Method	Sample Type Sym.	Blows Per 6"	Recovery	Sample Number	PID/FID	USCS Symbol	Soil Type, Particle-Size Range, Particle Angularity, Particle Shape, Density/Consistency, Plasticity, Color, Odor, Moisture, Reaction to HCL, Structure, Cementation	Backfill	Well Construction	Backfill	Well Completion: Description
60			28	18	12-3	0.0	SP	POORLY GRADED SAND WITH GRAVEL				
61			38	(			(	MINOR CARBONATE CEMENTATION, V				
			50/4					DENSE WET, GREY				
62	H.											#2/12 MONTEREY SAND
63												
64	S.											
65	A.		18	18	13-3	0.5	SM	SILTY SAND W GRAVEL, DENSE, WET				
66			15	(		(	(	GREY/RED/BROWN MOTTLED, CHAOTIC				0.010 IN SLOTTED 2" SCH 40 PVC WELL SCREEN WITH THREADED JOINTS
			20					BEDDING NO ODOR/STAINING				
67												
68												
69												
70			41	10	14-3	14.9	SM	SAME AS ABOVE V DENSE				
71			50/4	(		(	(					
			5									
72												
73												
74												
75			33	11	15-3	5.3	SP	POORLY GRADED SAND OVERLYING				THREADED END CAP
76			50/4	(			(	MUDSTONE COBBLE LOOSE/V DENSE				
								WET DK RED BROWN POORLY GRADED				
77								SAND ANGULAR FINING UPWARD				
78								TOTAL DEPTH 76.5'				
79												
80												

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