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

OFFICE USE ONLY
Log No. 124975
Permit No
Basin No. 087

PRINT OR TYPE IN BLACK INK 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. 73002
WELL NAME (If applicable): MW-9

1. OWNER/CLIENT NAME Dave Emme NDEP
MAILING ADDRESS 901 S. Stewart St # 4001
Carson City, NV 89701

DETAILED ADDRESS AT WELL LOCATION ~~204 Edison Way~~
Reno, VV 89502 1195 Corporate Blvd
Subdivision Name County: Washoe

2. PLS LOCATION NW ¼ SW ¼ 16 Sec 19 N/S 20 E
PERMIT/WAIVER NO. M/O-2052 ~~012-210-13~~
Issued by Water Resources Current Parcel No. → 012-401-27

Latitude 39.511616 UTM E ☐ NAD 27
Longitude 119.751336 UTM N X NAD 83/WGS 84

3. WORKED PERFORMED
X New Well ☐ Deepen: Orig WL#
☐ Replacement: Original well log #
☐ Recondition: Original well log #

4. PROPOSED USE
☐ Domestic ☐ Irrigation X Monitor
☐ Mining / Dewater ☐ Com / Ind ☐ Stock
☐ Test / Other ☐ Mun / QM ☐ Rec

5. WELL TYPE
☐ Auger ☐ Rotary ☐ RVC
☐ Air ☐ Mud X Sonic
☐ Other

6. LITHOLOGIC LOG

Material Encountered	Lost Circ	Water Strata	From	To
See Atatched Lith Log				

Date started: 25-Mar, 20 16
Date completed: 26-Mar, 20 16

7. WATER QUALITIES
Static water level: Feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: ° Fahrenheit
Water Quality:

8. WELL TEST DATA
Test Method: ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Recorded Time (Hours)
	NAD 27	
	39.511705	
	119.750314	

9. WELL CONSTRUCTION
Depth Drilled: 60 Feet Depth Cased: 60 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
8	Inches	0	Feet	60	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	0	34.5
2		SCH 40	0	20

ANNULAR MATERIALS
Sanitary Seal X Yes ☐ No

X Neat Cement	0	to	15	X Pumped	☐ Poured
☐ Cement Grout		to		☐ Pumped	☐ Poured
☐ Concrete Grout		to		☐ Pumped	☐ Poured
X Bentonite Chips	46	to	26	☐ Pumped	X Poured
X Gravel Pack [> 0.2 in.]	58-46	to	26-18.5	☐ Pumped	X Poured
☐ Sand Pack [< 0.2 in.]		to		☐ Pumped	☐ Poured
☐ Other, explain:		to		☐ Pumped	☐ Poured

PERFORATIONS
Type of perforation: Factory Slot
Size of perforation: 0.02

From	Feet	To	Feet
57	Feet	47	Feet
25	Feet	20	Feet
	Feet		Feet
	Feet		Feet
	Feet		Feet

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision. This report is true to the best of my knowledge.
Name Cascade Drilling, L.P. (Contractor)
Address 3000 Duluth St West Sacramento, CA 95691 (Contractor)
Phone 916-638-5611
Nevada contractor's license number as issued by the State Contractor's Board: 73966
Nevada well driller's license number as issued by the Nevada Division of Water Resources (on-site driller): 2434-M
Signed: K.L. Phillips (By driller performing actual drilling on site or contractor)
Date:

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(Rev. 04-16) USE ADDITIONAL SHEETS IF NECESSARY pg. of pg.

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: Altair
SITE ADDRESS: 1145 Corporate
PROJECT NUMBER: 10-01-219
DIAMETER: 10"/7" SCREEN SLOT SIZE: 0.020" SAND SIZE: #3
LOGGED BY: KMG
DATE: 3/21 START: 9:35 DRILLING COMPANY: Cascade DRILLER: Ryan Mettler
WELLID: MW-9 STOP: 16:30 DRILLING METHOD: Sonic SAMPLE METHOD: N/A

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
1									
2									
3									
4									
5									
6			0.0	moist	light brown		light brown poorly sorted gravelly sand; gravel 0.8 in 40% fines, 25% gravel, 35% sand	SW	
7									
8			0.0	moist	light brown		sandy silt w/ 5% gravel <5% clay	ML	
9								SP	
10			0.0	moist wet	dark gray		~~poorly~~ sorted silty gravelly medium sand <5% gravel (0.25 in)		
11		"			dark gray		(10'-11') coarse grained sand w/ gravel up to 1"	SP	
12							gravelly sand w/ 10% fines		
13	grout				dark gray		loose gravel (80%) with little sand + fines cobbles up to 6"	GW	
14					light brown		poorly sorted gravelly sand cobbles up to 4"	SW	
15		15.5"							
16	bentonite		0.0	wet	dark gray		116' well sorted medium sand w/ <10% fines	SP	
17							poorly sorted silty sand	SW	
18		18.5"					poorly sorted silty sand w/ 10% gravel + cobbles up to 3"	SW	
19	sand						well sorted sand (medium)	SP	
20									

TOTAL BORING DEPTH: 58 PAGE NO: 1 OF 1 ESTIMATED GROUND WATER DEPTH: 10.5

THIS SUMMARY APPLIES ONLY AT THE LOCATION AND AT THE TIME OF LOGGING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

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LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: Altair
SITE ADDRESS: 1195 Corporate Blvd
PROJECT NUMBER: 10-01-219
DIAMETER: 7"/10" SCREEN SLOT SIZE: 0.020" SAND SIZE: #3
LOGGED BY: KMG
DATE: 3/21 START: 9:35
DRILLING COMPANY: Cascade DRILLER: Ryan Miller
WELLID: MW-9 STOP: 16:30
DRILLING METHOD: Sonic SAMPLE METHOD: N/A

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
21			0.0	wet	light brown		poorly sorted sand (medium)	SW	
22							Fine sand	SW	
23									
24					light brown		silt, firm some very fine sand	SW	
25	sand								
26							½" interbedded poorly sorted sand at 26.5'		
27	bentonite								
28				wet	dark gray		poorly sorted gravelly sand w/ gravel up to 1.5' coarse to medium sand	SW	
29			0.1						
30				wet			sandy gravel cobbles up to 5"	GW	
31									
32				saturated			poorly sorted coarse-grained gravelly sand	SW	
33				saturated	dark gray			SW	
34									
35									
36				wet					
37			0.0	wet	dark gray		sandy gravel, poorly sorted, cobbles up to 3"	GW	
38									
39									
40			0.0						

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TOTAL BORING DEPTH: 38 PAGE NO: 2 OF 1 ESTIMATED GROUND WATER DEPTH: 10.5

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BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

LITHOLOGIC AND MONITOR WELL CONSTRUCTION LOG

PROJECT NAME: Altair
SITE ADDRESS: 1195 Corporate Blvd
PROJECT NUMBER: 10-01-219
DIAMETER: 7" / 10" SCREEN SLOT SIZE: 0.020" SAND SIZE: #3
LOGGED BY: KMG
DATE: 3/21/16 START: 9:35
DRILLING COMPANY: Cascade DRILLER: Ryan Miller
WELLID: MW-9 STOP: 16:20
DRILLING METHOD: Sonic SAMPLE METHOD: N/A

DEPTH (FEET)	MONITOR WELL CONSTRUCTION DIAMETER:	SAMPLE ID	PID	MOISTURE	COLOR	CONSISTENCY	GRAIN SIZE	CLASSIFICATION	REMARKS & ODORS
41				wet					
42			0.0		light gray		(42.5' -) well sorted medium grained sand (no gravel)	SP	
43									
44			0.0						
45	bentonite								
46	sand		0.0	wet	dark gray		(45.5' -) poorly sorted coarse grained sandy w/ some gravel (.25") + gravel up to 1"	SW	
47									
48									
49			0.0						
50									
51			0.0	wet	dark gray		(50.5' -) poorly sorted sandy gravel cobbles up to 6" sandy gravel w/ increasing sand (-30%)	GW	
52									
53			0.0						
54									
55			0.0				(55' -) well-sorted gravelly sand (medium-grained sand) cobbles 10"	SP	
56				wet	dark gray				
57									
58	sand						(57.5' -) sandy gravel (cobbles to 6"	GW	
59									
60									

TOTAL BORING DEPTH: 58 PAGE NO. 3 OF 1 ESTIMATED GROUND WATER DEPTH: 10.5

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