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WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 37362

1. OWNER EQUILON ENTERPRISES LLC ADDRESS AT WELL LOCATION 2500 S. DECATUR BLVD.
 MAILING ADDRESS P.O. BOX 4369 LAS VEGAS, NV. 89102
HOUSTON, TX 77210-4369

2. LOCATION SE 1/4 SE 1/4 Sec. 01 T. 21 N. R. 60 E CLARK County
 PERMIT NO. 1163-01-803-005
 Issued by Water Resources Parcel No. Subdivision Name

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other
 4. PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock
 5. WELL TYPE
 Cable Rotary RVC
 Air Other MSA

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
* SEE ATTACHED LOG				
DCNR/DWR RECEIVED				
APR 03 2003				
LAS VEGAS OFFICE				

8. WELL CONSTRUCTION
 Depth Drilled 52 Feet Depth Cased 52 Feet
 HOLE DIAMETER (BIT SIZE)
 From 11 Inches 52 Feet To 0 Feet
 _____ Inches _____ Feet _____ Feet
 _____ Inches _____ Feet _____ Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
<u>4"</u>		<u>SCH 40 PVC</u>	<u>27</u>	<u>0</u>

Perforations:
 Type perforation SCH 40 PVC
 Size perforation .010"
 From 52' feet to 27 feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Depth of Seal 24.5' Neat Cement
 Placement Method: Pumped Cement Grout
 Poured Concrete Grout
 Gravel Packed: Yes No
 From 52 feet to 24.5 feet

9. WATER LEVEL
 Static water level _____ feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

Date started _____, 19____
 Date completed _____, 19____

7. 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 GREGG DRILLING & TESTING INC. Contractor
 Address 2726 WALNUT AVE Contractor
SIGNAL HILL, CA 90755
 Nevada contractor's license number issued by the State Contractor's Board. 0038113(C23)
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller. M2018
 Signed _____
 By driller performing actual drilling on site or contractor
 Date APRIL 1, 2003

Boring Location Sketch:							Project No: 155-0189-01		Date Drilled: 01-21-03		Boring No.	
							Client: SHELL OIL PRODUCTS US		MW-3		Facility: SAHARA & DECATUR SHELL	
							Location: 2500 S. DECATUR Blvd.					
							City: LAS VEGAS, NV. 89101					
							Logged By: BRITT CALLAHAN		Driller: GREGG DRILLING/ JEFF/BRETT/RENEE		Sheet No.	
Drilling Method: HOLLOW-STEM AUGER/ MOBILE B-61		Casing installation data:		1 of 2								
Boring Diameters: ~12"		Top of box elevation:		Ground Level Elevation:								
							4" SCH. 40 PVC SCREEN, 0.010" SLOT 27'-52'. 4" SCH. 40 PVC CASING 0-27'		RMC #3 SAND 24.5'-52', BENTONITE CHIP SEAL 19.5-24.5', CEMENT GROUT SEAL 1.5'-19.5'		CONCRETE FOR TRAFFIC VAULT, 0-1.5'	
Depth (Feet)	Sample Number	Sample Int.	Time	PID (ppm)	Blow Counts per 6"	Well Detail	Soil Group Symbol	Water Level	Time	Date		
0												
			0740	N/S								
5												
							CALICHE					
10												
	MW-3-14		0752	42.7	7-19-40							
15												
	MW-3-20		0803	0.0	7-9-13							
20												
			0813	0.0	8-8-14							
25												
			0830	0.0	9-10-12							
30												
			N/S	N/S	N/S		CALICHE					
35												

SILTY CLAY (CL/ML); GRAYISH ORANGE (10YR 7/4), ~10-20% SAND.

WELL CEMENTED SEDIMENTS "CALICHE", VERY PALE ORANGE (10YR 8/2), DRY.

SANDY SILTY CLAY (CL/ML); (10YR 7/4 TO 10YR 8/2), WITH THIN WELL CEMENTED LENSES, DRY TO DAMP.

SILTY CLAY (CL/ML); 10YR 8/2, MOIST WITH CEMENTED ZONES, V. STIFF.

WELL GRADED GRAVEL (GW); SILTY SAND MATRIX, SU-RDD TO SUB ANGULAR, TRACE CLAY.

SILTY CLAY (CL/ML); WITH SAND, ~20% SILT, ~10-15% SAND, TRACE COARSE SAND, DAMP-MOIST.

SILTY SAND (SM); WITH CLAY, LIGHT BROWN (5YR 5/6), ~20-25% SILT, ~10-15% CLAY, F-VF SAND, DAMP TO MOIST, MED. DENSE.

WELL GRADED GRAVEL (Gw0); MODERATE YELLOWISH BROWN (10YR 5/4), SILTY SAND MATRIX, DAMP.

SILTY SAND (SM); AS DESCRIBED ABOVE AT 20', DENSE.

SILTY CLAYEY SAND (SC); 10YR 7/4, ~20% CLAY, ~10-15%VF SAND, DAMP, DENSE.

POORLY GRADED GRAVEL (GP); 10YR 7/4, SILTY SAND MATRIX, GRAVELS ~1/4" - 1/2", DAMP.

SILTY CLAY (CL/ML); 10YR 7/4 TO 10YR 8/2, ABOVE; WITH INTERMITTENT WELL CEMENTED AND V. MOIST ZONES WITHIN, V. STIFF.

WELL CEMENTED SEDIMENTS; 10YR 8/2, DRY, V. HARD.

CLAY; AS ABOVE AT 30 FEET.

Boring Location Sketch:	Project No: 155-0189-01	Date Drilled: 01-21-03	Boring No.
	Client: SHELL OIL PRODUCTS US		MW-3
	Facility: SAHARA & DECATUR SHELL		
	Location: 2500 S. DECATUR Blvd.		Sheet No.
	City: LAS VEGAS, NV.		2 of 2
Logged By: BRITT CALLAHAN		Driller: GREGG DRILLING/ JEFF/BRETT/RENEE	
Casing installation data:			

Drilling Method: HOLLOW-STEM AUGER/CME-95

Boring Diameters: 12"

Top of box elevation: _____ Ground Level Elevation: _____

Depth (Feet)	Sample Number	Sample Int.	Time	PID (ppm)	Blow Counts per 6"	Well Detail	Soil Group Symbol	Water Level	
								Time	Date
35									
	MW-2-40		0928	0.0	7-8-9				
40									
45	N/S		0938	N/S	N/S				
50									
			0945	0.0	15-19-30				
55									
60									
65									
70									

WELL CEMENTED SEDIMENTS; "CALICHE", DRY, V. HARD, SOFT (CLAY?) FROM 35 TO 37'.

CLAYEY SAND (SC); MODERATE YELLOWISH BROWN TO GRAYISH ORANGE (10YR 5/4 TO 10YR 7/4), ~20-30% CLAY, ~10% SILT, WELL GRADED SAND, W/ TRACE V. COARSE SAND, V. MOIST, MED. DENSE.

SILTY SAND (SM); 10YR 5/4, WITH CALICHE NODULES, COARSE SAND AND CLAY, V. MOIST, MED. DENSE.

INTERBEDDED WELL CEMENTED SEDIMENTS; HARD.

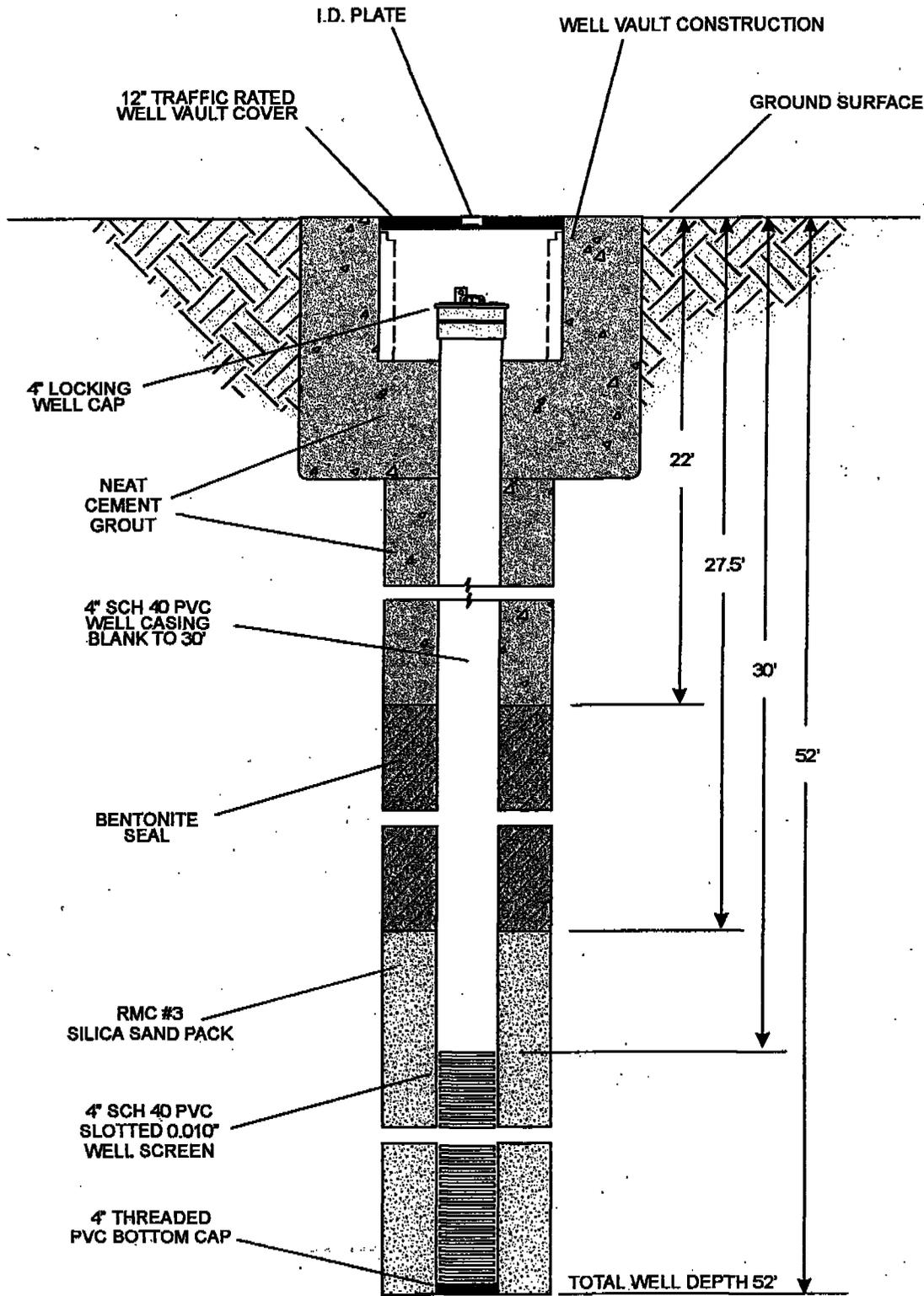
SILTY SAND (SM); WITH CLAY, 10YR 5/4 TO 10YR 7/4.

CEMENTED SEDIMENTS, HARD FRACTURED.

SILTY CLAYEY SAND (SC); 10YR 8/2 TO 10YR 7/4, TRACE TO 10% COARSE SAND, TO FINE GRAVEL, WITH CEMENTED ZONES WITHIN, HARD.

CLAY AND "CALICHE EVIDENT IN SHOE AT 51-51.5' V. MOIST TO SATURATED IN FRACTURES.

TD = 52 FEET



DRILL METHOD: HOLLOW STEM AUGER
 DRILL DIAMETER: 12"
 DATE DRILLED: 01-21-03



NOTE: NOT TO SCALE



SHELL OIL PRODUCTS U.S.
 SERVICE STATION FACILITY
 2500 SOUTH DECATUR BLVD.
 LAS VEGAS, NEVADA 89102

GROUNDWATER MONITOR WELL MW-3
 CONSTRUCTION DETAIL

FIGURE

MW-3

PROJECT#: 155-0189-01

FILE#: 0189wcdmw3

DATE DRAWN: 03/20/03

DRAWN BY: B. McCLELLAN