

OFFICE USE ONLY
 Log No. 884107
 Permit No. _____
 Basin 212

PRINT OR TYPE ONLY
 DO NOT WRITE ON BACK

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 BLD.
 MAILING ADDRESS P.O. BOX 4369 LAS VEGAS, NV. 89102
HOUSTON, TX 77210-4369

2. LOCATION SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 01 T. 21 N. R. 60 E. CLARK County
 PERMIT NO. 163-01-803-005 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 HSA

6. LITHOLOGIC LOG

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

8. WELL CONSTRUCTION
 Depth Drilled 46.5 Feet Depth Cased 44.5 Feet

HOLE DIAMETER (BIT SIZE)
 From _____ To _____
11 Inches 46.5 Feet 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>24.5</u>	<u>0</u>

Perforations:
 Type perforation SCH 40 PVC
 Size perforation .010"
 From 44.5 feet to 24.5 feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Depth of Seal 21 Neat Cement
 Placement Method: Pumped Cement Grout
 Poured Concrete Grout

Gravel Packed: Yes No
 From 44.5 feet to 21 feet

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

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 7, 2003

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

7. WELL TEST DATA

TEST METHOD:	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<input type="checkbox"/> Bailer <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift			

Boring Location Sketch:	Project No: 155-0189-01	Date Drilled: 01-21-03	Boring No.
	Client: SHELL OIL PRODUCTS US		MW-4
	Facility: SAHARA & DECATUR SHELL		
	Location: 2500 S. DECATUR Blvd.		Sheet No.
	City: LAS VEGAS, NV. 89101		1 of 2
Logged By: BRITT CALLAHAN		Driller: GREGG DRILLING/ JEFF/BRETT/RENEE	

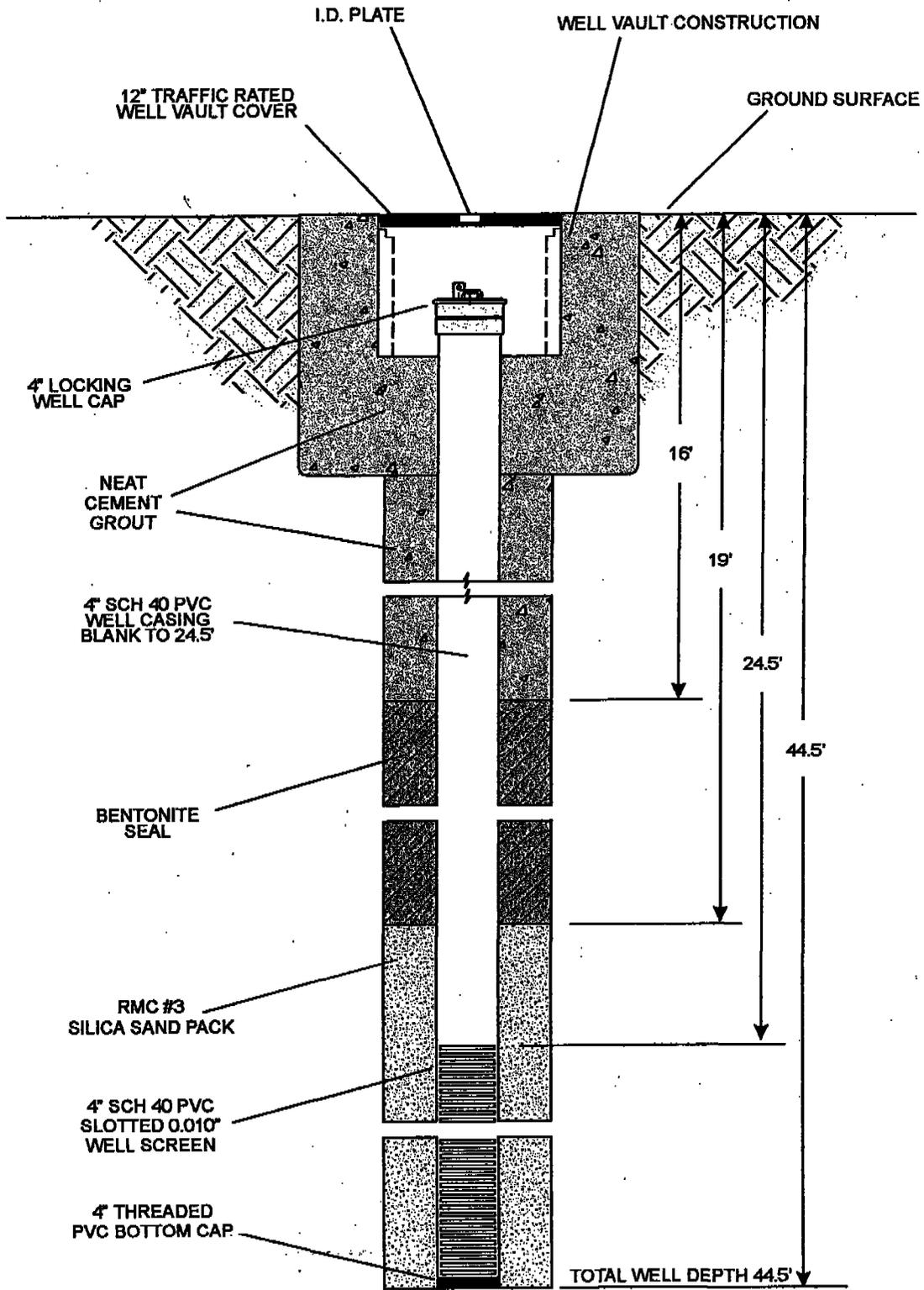
Drilling Method: HOLLOW-STEM AUGER/ MOBILE B-61

Casing installation data:
 4" SCH. 40 PVC SCREEN, 0.010"-SLOT 24.5-44.5'. 4" SCH. 40 PVC CASING 0-24.5'
 RMC #3 SAND 21-44.5", BENTONITE CHIP SEAL 16-21', CEMENT GROUT SEAL 1.5'-16'.
 CONCRETE FOR TRAFFIC VAULT, 0-1.5'

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
0									SILTY SAND (SM); WITH GRAVEL, MODERATE, YELLOWISH BROWN (10YR 5/4), DRY
5			0740	N/S					VERY PALE ORANGE (10YR 8/2)
									SANDY SILTY CLAY (CL/ML); 10YR 8/2, TRACE COARSE SAND TO FINE GRAVEL, INCREASING CEMENT, DAMP TO MOIST.
									CALICHE
10			1408	0.0	7-19-17				WELL CEMENTED SEDIMENTS "CALICHE", VERY PALE ORANGE (10YR 8/2), DRY, V. HARD.
									SANDY SILTY CLAY (CL/ML); AS ABOVE AT 6 - 8'
			1415	0.07	17-20-30				SILTY SAND (SM); DARK YELLOWISH ORANGE (10YR 6/6), 20-25% SILT, TRACE CALICHE NODULES, DAMP.
15									SILTY CLAY (CL/ML); 10YR 8/2, MOIST WITH CEMENTED ZONES, V. STIFF.
									WELL GRADED GRAVEL (GW); 10YR 5/4, DAMP.
									SILTY CLAY (CL/ML); 10YR 8/2 TO 10YR 7/4, ~10% SAND, TRACE GRAVEL, DAMP.
									SILTY SAND (SM); WITH GRAVEL; 10YR 7/4, GRAVEL <1".
20			1420	9.9	10-7-8				CLAYEY SILTY SAND, 10YR 5/4, ~20% CLAY, ~25% SILT, F-VF SAND, WITH CEMENTED ZONES, POSSIBLE ODOR NOTED.
25			1430	89.4	10-16-19				SILTY SAND (SM); 10YR 6/6, TRACE COARSE SAND AND CLAY, MODERATE CEMENT AT 24-25', DAMP.
30			440	58.8	9-10-12				SANDY SILT (ML); 10YR 5/4, 20-25% VF SAND, 10-15% CLAY, MED. PI, V. MOIST.
									~33.5 INTERBEDDED LAYERS OF WELL CEMENTED SEDIMENTS.
35			N/S	N/S	N/S				WELL CEMENTED SEDIMENTS; 10YR 8/2, DRY, V. HARD.



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-4
 CONSTRUCTION DETAIL

FIGURE
 MW-4

PROJECT#: 155-0189-01

FILE#: 0189wcdrmw4

DATE DRAWN: 03/20/03

DRAWN BY: B. McCLELLAN