WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

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

OFFICE USE ONLY
Log No. 88469
Permit No.
Basin 212

NOTICE OF INTENT NO. 37362

1. OWNER EQUILON ENTERPRISES LLC
MAILING ADDRESS P.O. BOX 4369
HOUSTON, TX 77210-4369

ADDRESS AT WELL LOCATION 2500 S. DECATUR BLVD.
LAS VEGAS, NV. 89102

2. LOCATION SE ¼ SE ¼ Sec. 01 T. 21 N/S R. 60 E. CLARK County
PERMIT NO. Issued by Water Resources | 163-01-803-005 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
* SEE ATTACHED LOG				

DCNR/DWR
RECEIVED
APR 03 2003
LAS VEGAS OFFICE

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)

8. WELL CONSTRUCTION
Depth Drilled 45 Feet Depth Cased 45 Feet

HOLE DIAMETER (BIT SIZE)

		From	To
11 Inches	45 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)
4"		SCH 40 PVC	30	0

Perforations:
Type perforation SCH 40 PVC
Size perforation .010"
From 45 feet to 30 feet
From ... feet to ... feet
From ... feet to ... feet
From ... feet to ... feet
From ... feet to ... feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 27.5'
Placement Method: ☒ Pumped ☐ Poured

Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout

Gravel Packed: ☒ Yes ☐ No
From 45 feet to 27.5' feet

9. WATER LEVEL
Static water level 37.08' 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 1, 2003

(Rev. 3-91) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

MILLER BROOKS Environmental, Inc.

FIELD EXPLORATORY BORING LOG

Boring Location Sketch:

Project No: 155-0189-01	Date Drilled: 01-20-03		Boring No.
Client: SHELL OIL PRODUCTS US			MW-2
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 30-45'. 4" SCH. 40 PVC CASING 0-30' RMC #3 SAND 27.5'-45', BENTONITE CHIP SEAL 22-27.5', CEMENT GROUT SEAL 1.5'-22'. CONCRETE FOR TRAFFIC VAULT, 0-1.5'

Boring Diameters: ~12"

Top of box elevation:

Ground Level Elevation:

Water Level	37.08' BGS			
Time	0740			
Date	1/21/03			

Depth (Feet)	Sample Number	Sample Int.	Time	PID (ppm)	Blow Counts per 6"	Well Detail	Soil Group Symbol	
0								SILTY SANDY CLAY (CL); GRAYISH ORANGE (10YR 7/4), ~30% F. SAND, ~20% SILT, TRACE GRAVEL ~1", DAMP.
5								
							CALICHE	WELL CEMENTED SEDIMENTS "CALICHE", GRAYISH ORANGE TO V. PALE ORANGE (10YR 7/4 TO 10YR 8/2), DRY TO DAMP.
10			0815	0.0	7-7-10			AS DESCRIBED ABOVE, 10YR 8/2, NODULES OF CALICHE~1.5", DAMP TO MOIST, V. STIFF.
15			0825	N/R	10-13-17			AS ABOVE, LESS CALICHE GRAVELS,MOIST TO V. MOIST AT 13', DRY AT 14', WITH GRAVEL<1", TRACE >1.5"SUB.ANGULAR TO SUB RDD, V. STIFF.
20			0830	0.0	20-37-40			SILTY SAND (SM), DARK YELLOWISH ORANGE (10YR 6/6, ~15% SILT, TRACE CLAY AND FINE GRAVEL, WEAK CEMENT, DRY, V. DENSE.
								WELL GRADED GRAVEL (Gw0; MODERATE YELLOWISH BROWN (10YR 5/4), SILTY SAND MATRIX, , DAMP.
25			0836		10-17-20			SILTY SAND (SM); AS DESCRIBED ABOVE AT 20', DENSE.
								SILTY CLAYEY SAND (SC); 10YR 7/4, ~20% CLAY, ~10-15%VF SAND, DAMP, DENSE.
30			0845	0.0	9-11-13			AS ABOVE; 10YR 5/4 TO 10YR 7/4, WITH INTERMITTENT WELL CEMENTED ZONES WITHIN, MOIST.
								SILTY SAND (SM); 10YR 6/6, ~30% SILT, F-VF SAND, TRACE CLAY, MOIST, MED. DENSE.
35			0855	N/R	100/3"			

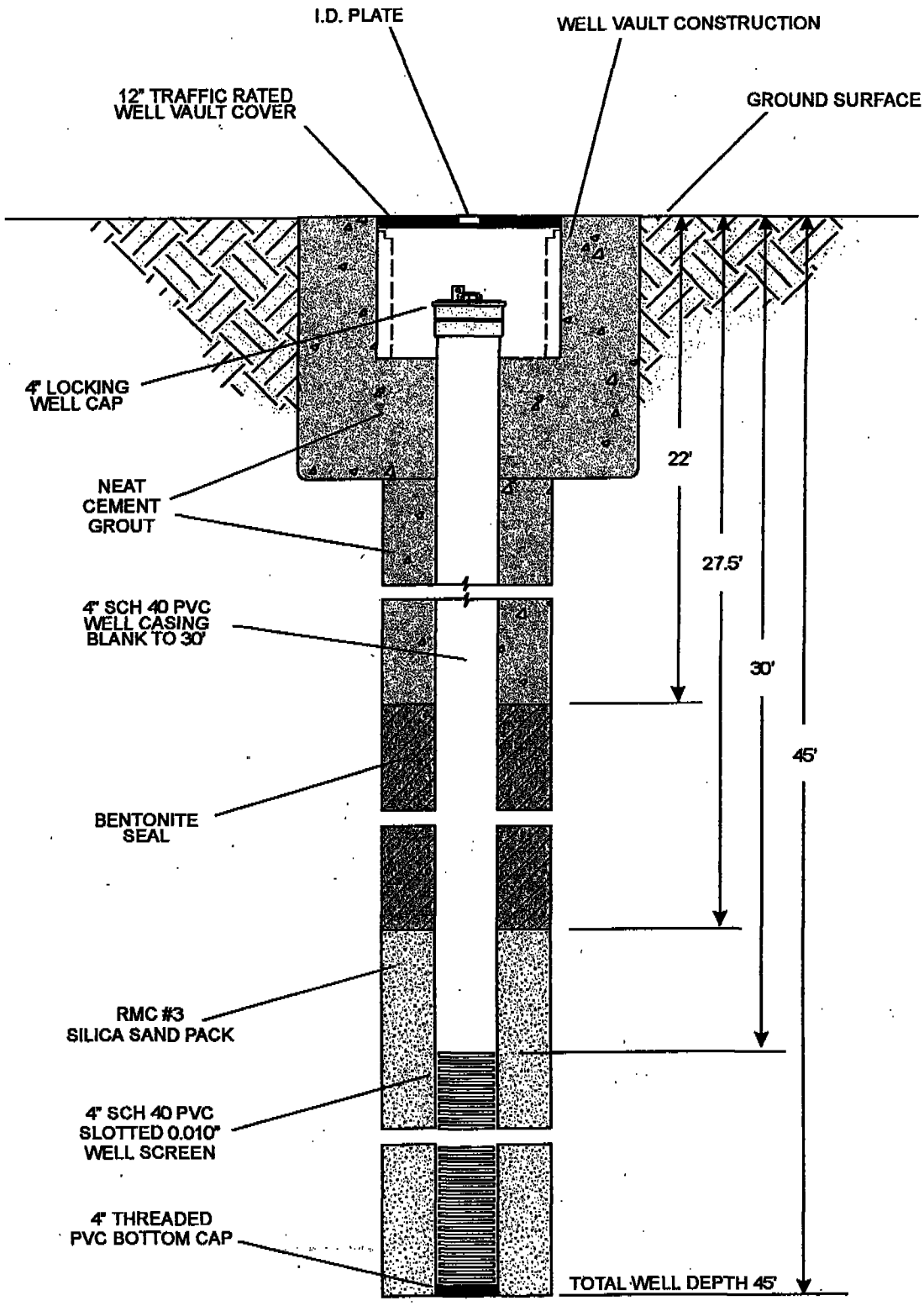
MILLER BROOKS Environmental, Inc.

FIELD EXPLORATORY BORING LOG

Boring Location Sketch:	Project No: 155-0189-01	Date Drilled: 01-20-03	Boring No. MW-2
	Client: SHELL OIL PRODUCTS US		
	Facility: SAHARA & DECATUR SHELL		
	Location: 2500 S. DECATUR Blvd.		Sheet No. 2 of 2
	City: LAS VEGAS, NV.		
	Logged By: BRITT CALLAHAN	Driller: GREGG DRILLING/ JEFF/BRETT/RENEE	
Drilling Method: HOLLOW-STEM AUGER/CME-95	Casing installation data:		
Boring Diameters: 12"	Top of box elevation:	Ground Level Elevation:	

Water Level				
Time				
Date				

Depth (Feet)	Sample Number	Sample Int.	Time	PID (ppm)	Blow Counts per 6"	Well Detail	Soil Group Symbol	
35							CALICHE	WELL CEMENTED SEDIMENTS; "CALICHE", DRY, V. HARD, YELLOWISH GRAY(5Y 8/1), ~3' CORED INSIDE LEAD AUGER.
	MW-2-40		1135	11.2	9-14-17			SANDY CLAYEY SILT (ML); 10YR 7/4 TO 10YR 8/2, ~20-25% CLAY, ~15%, SAND, TRACE COARSE SAND, V. MOIST, V. STIFF.
40								SILTY SAND (SM); 10YR 6/6, 30-35% SILT, F-VF SAND, TRACE FINE GRAVEL, V. MOIST, WEAK CEMENT,
	N/S		1545	N/S	N/S		CALICHE	DRILLING HARD AGAIN AT 43.5 FEET, CALICHE.
45								TD = 45' , AUGER REFUSAL ON "CALICHE"
50								
55								
60								
65								
70								



DRILL METHOD: HOLLOW STEM AUGER
DRILL DIAMETER: 12"
DATE DRILLED: 01-20-03

NOTE: NOT TO SCALE

MILLER BROOKS Environmental, Inc.

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

GROUNDWATER MONITOR WELL MW-2
CONSTRUCTION DETAIL

FIGURE
MW-2

PROJECT#:	FILE#:	DATE DRAWN:	DRAWN BY:
155-0189-01	0189wcdmw2	03/20/03	B. McCLELLAN