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

STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLERS REPORT

Please complete this form in its entirety

OFFICE USE ONLY
Log No. 32045
Permit No.
Basin 6-87

1/3

PRINT OR TYPE ONLY

NOTICE OF INTENT NO. 12701

1. OWNER Chent Brown & Caldwell
MAILING ADDRESS 723 S Street
Sacramento, CA 95814-7092

ADDRESS AT WELL LOCATION ARCO Station 6017
2240 B Street
Sparks NV 89431

2. LOCATION NE ¼ NE ¼ Sec. 6 T. 19N N/S R. 20 E County
PERMIT NO. MP 500 (Issued by Water Resources) | Parcel No. | El Rancho & B Streets (Subdivision Name)

3. TYPE OF WORK
New Well ☐ Recondition ☐
Deepen ☐ Other MW ☐

4. PROPOSED USE
Domestic ☐ Irrigation ☐ Test ☐
Municipal ☐ Industrial ☐ Stock ☐

5. TYPE WELL
Cable ☐ Rotary ☐
Other ☐

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Attached				
# MW-3				

Date started 5/9/, 1989
Date completed 7/9/, 1989

7. WELL TEST DATA

Pump RPM	G.P.M.	Draw Down	After Hours Pump

BAILER TEST
G.P.M. ..... Draw down ..... feet ..... hours
G.P.M. ..... Draw down ..... feet ..... hours
G.P.M. ..... Draw down ..... feet ..... hours

8. WELL CONSTRUCTION
Diameter hole ..... inches Total depth ..... feet
Casing record .....
Weight per foot ..... Thickness .....

Diameter	From	To
..... inches	..... feet	..... feet
..... inches	..... feet	..... feet
..... inches	..... feet	..... feet
..... inches	..... feet	..... feet
..... inches	..... feet	..... feet
..... inches	..... feet	..... feet

Surface seal: Yes ☐ No ☐ Type .....
Depth of seal ..... feet
Gravel packed: Yes ☐ No ☐
Gravel packed from ..... feet to ..... feet

Perforations:
Type perforation .....
Size perforation .....
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet

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

10. DRILLERS CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.

Name ..... (Contractor)
Address ..... (Contractor)
Nevada contractor's license number .....
Nevada contractor's drillers number .....
Nevada driller's license number ..... (Actual Driller)
Signed ..... (Contractor)
Date .....

USE ADDITIONAL SHEETS IF NECESSARY

(Rev. 6-81) O-627 CR434

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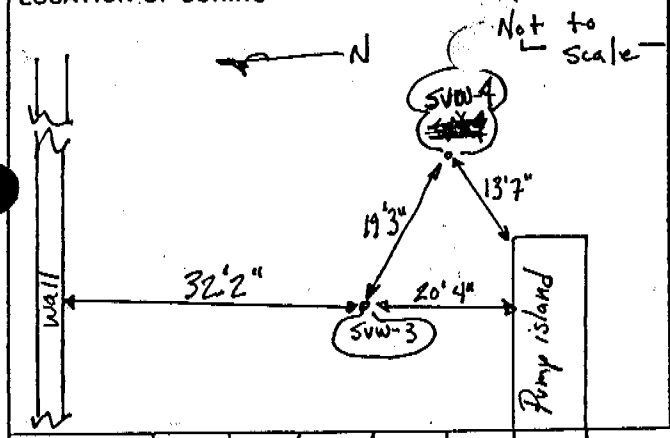
Log # 32045

LOCATION OF BORING



CLIENT	ARCO PRODUCTS COMPANY			
LOCATION	2240 B ST, SPARKS,	JOB NO.	4165	
WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

BORING NO. SVW-3

SHEET 1 OF 2

DRILLING	
START TIME	FINISH TIME
0800	1640
DATE 5/9/89	DATE 5/9/89

DRILLING CONTRACTOR WAYNE DRILLING

DRILLING METHOD ODEX - Air Rotary

ODEX 140 System with 8 5/8" L.H. threaded drive casing

SAMPLING METHOD 5 3/8" Tubing (T) Hand Auger (HA)

N/S | E/W | ELEV.

SURFACE CONDITIONS Asphalt / Concrete

WELL CONST. CASING	WELL CONST. ANNULUS	SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	BLOWS/6" SAMPLER	DEPTH IN FEET	SOIL CALLOUT
3" ID sch 40 PVC blank casing	Cement	Air Rotary				0	Asphalt
	#3 Monterey Sand	HA				1	Concrete
	grout					2	
	bentonite					3	
						4	
						5	
						6	
						7	
						8	FILL
						9	
						10	
						11	
						12	
						13	
						14	GW/GM
						15	
						16	GP/GM
						17	
						18	GP
						19	
						20	

3" ID sch 40 PVC .020 slotted casing

#3 Monterey clean imported Sand

ODEX

MATERIALS ENCOUNTERED AND DRILLING CONDITIONS

0 - .75 ft.; Asphalt

.75 - 1.25 ft.; Concrete - used Air rotarty with 9 7/8" hard formation bit.

1.25 - 13.5 ft; Gravel; fine gravel, subangular to angular; consists mainly of imported backfill material to fill in previous excavation where former UST's were located.

13.5 - 15 ft: sandy gravel; 40-50% fine to medium gravel, rounded, consisting of volcanics; 20-30% fine to coarse sand, rounded, well graded, consists of mostly quartz and feldspar grains; 10% cobbles; 10-15% silt low plastic fines; moist, hard drilling slow for tool to penetrate, Olive gray (5Y 3/2) to greenish gray (5GY 6/1). Noted HC odors at 13.0 ft. 1200 ppm recorded with TLV from drilling exhaust at the cyclone.

15.0 - 17 ft.; cobbley gravel; 60% medium gravel, rounded, consisting of mafic volcanics, 30% cobbles rounded, dark volcanics; 10% silt (non plastic fines) moist; hard drilling; Cobbles & gravels Black (N1) to Dark gray (N3) silt Grayish olive green (5GY 3/2). Strong HC odors from drilling exhaust at cyclone port. TLV measurments 2000 ppm ask crew to don half masked respirators with air purifying devices.

17.0 - 19 ft; Boulder - 100% Boulders ≈ 1' diameter consisting of mafic volcanic rock which is felsic in texture; very hard drilling slow advance of tool down hole. HC odors tower in ambient concentration from cyclone exhaust. respirators still being worn by drilling crew. Boulders are Black (N1).

(*) Estimated from cyclone discharge.

DRILLER Gary Hedman & Rick Wortman

RIG 7660 - Schramm

BY Tim Havel

DATE 5/1/89

CHK'D BY

(*) fitted with 3" ID sch 40 PVC slip to thread 'T' coupling with 3" NPT plug - slip cap at s

LOCATION OF BORING

See pg. #1

CLIENT ARCO PRODUCTS COMPANY					BORING NO. SVW-3
LOCATION 2240 B ST, SPARKS,		JOB NO. 4165			SHEET 2 OF 2
WATER LEVEL					DRILLING
TIME					START TIME 0800 / FINISH TIME 1640
DATE					DATE 5/9/89 / DATE 5/9/89
CASING DEPTH					

DRILLING CONTRACTOR WAYNE DRILLING

DRILLING METHOD ODEX - Air Rotary

SAMPLING METHOD 5 3/8" Tubing (T) driven with an at surface casing hammer

N/S | E/W | ELEV.

SURFACE CONDITIONS Asphalt / Concrete

WELL CONST. CASING	WELL CONST. ANNULUS	SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	BLOWS/6" SAMPLER	DEPTH IN FEET	SOIL CALLOUT
3"ID sch 40 PVC 0.020 slot casing	#3 Monterey Sand	ODEX				20	GP
						21	
						22	
						23	
						24	
						25	GM
						26	
						27	
						28	
						29	
						30	
						31	
						32	
						33	
						34	
						35	
						36	
						37	
						38	
						39	
						40	

MATERIALS ENCOUNTERED AND DRILLING CONDITIONS (*)

(*) Estimated % from cyclone discharge.

19.0-21.0 ft; cobbly gravel; 60% medium ~~to coarse~~ gravel, ~~moderately sorted poorly sorted~~ rounded consisting of black to gray fine grained volcanics. 20% cobbles, rounded, ~~poorly graded~~ ~~well graded~~ 15% fine to medium coarse sand rounded, ~~poorly graded~~, well graded, consisting of quartz & some micas; 5% nonplastic fines; loose, hard drilling; Olive gray (5Y 3/2). High HC odors from cyclone exhaust. ≈ 1000 ppm TPH measured with TLV sniffer.

21.0 - 23.0 ft; Boulders, 90% boulders, rounded consisting of 1" diameter boulders made up of mafic fine grained volcanics; 10% Sand - coarse to medium coarse grained, rounded, quartz & feldspar, hard drilling - moderate HC odors TLV measurement 700 ppm & falling. Color - black (N1) to Dark gray (N3).

23-28.5 ft; Clayey sandy cobbles; 60% cobbles rounded, consisting of mafic volcanics & some pumice fragments; 20% medium sand, rounded poorly graded, ~~well graded~~; quartz present; 20% low plastic fines; moist, lt olive gray (5Y 5/2) to Olive gray (5Y 3/2). HC odor - strong. Drove sample tubing from 25.0 ft to 28.5 ft (no refusal). Collected samples at 27.0 ft and 28.5 ft bg. TLV head space readings (400 ppm TPH) 27 ft. and (500 ppm TPH) 28.5 ft. bg.

Complete depth of borehole is 28.5 ft.

borehole completed with 3" ID sch 40 PVC 0.020 slotted casing from 25' to 5 ft below grade and (*) 3" ID sch 40 PVC blank casing from 5 ft to 0.5 ft below grade. Annulus was filled with #3 monterey sand from 28.5 ft to 4.5 ft bg, bentonite at 4.5 ft to 3.5 ft bg, ~~and~~ concrete from 3.5-3.0 ft bg, #3 sand from 3.0-1.0 ft bg. and a 9" ID ~~CH~~ vault cover in concrete set at grade.

(*) (*) 3" ID casing fitted with 3" ID sch 40 slip to thread T coupling at 2.5 ft bg.

DRILLER Chris Hoover & Rick Hoover

RIG 7660 - Schramm

BY Jim Havel DATE 5/1/89 CHK'D BY

5/3

Left 32045