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

STATE OF NEVADA
DIVISION OF WATER RESOURCES

OFFICE USE ONLY
Log No. B2044 1/3
Permit No.
Basin 6-87

WELL DRILLERS REPORT

PRINT OR TYPE ONLY

Please complete this form in its entirety

NOTICE OF INTENT NO. 12791

1. OWNER Client 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. 19 N N/S R. 20 E Washoe County

PERMIT NO. M/o 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 ☒ CPEX

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Attached				
		# SVW-2		

Date started 5/11/ 1989
Date completed 5/12/ 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.

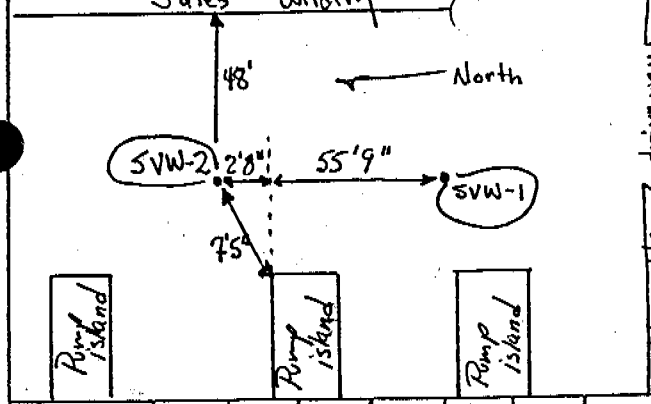
Name ..... Contractor
Address ..... Contractor
Nevada contractor's license number .....
Nevada contractor's drillers number .....
Nevada driller's license number ..... Actual Driller
Signed ..... Contractor
Date .....

(Rev. 6-81)

USE ADDITIONAL SHEETS IF NECESSARY

O-627 CR434

LOCATION OF BORING: Sales Building (Not to Scale)



CLIENT	ARCO PRODUCTS COMPANY
LOCATION	2240 B' ST, SPARKS,
JOB NO.	4165
BORING NO.	SVW-2
SHEET	1 OF 2
WATER LEVEL	
TIME	
DATE	
CASING DEPTH	
DRILLING CONTRACTOR	WAYNE DRILLING
DRILLING METHOD	ODEX 190 System with 8 5/8" LH. threaded drive casing.
SAMPLING METHOD	5 3/8" Tubing (T) Hand Auger (HA).
DRILLING START TIME	1900
DRILLING FINISH TIME	0015
DRILLING START DATE	5/11/89
DRILLING FINISH DATE	5/12/89
N/S	
E/W	
TOC ELEV. =	
SURFACE CONDITIONS	Asphalt

WELL CONST. CASING	WELL CONST. ANNULUS	SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	SAMPLE NO. / SAMPLE DEPTH	BLOWS/6" SAMPLER	DEPTH IN FEET	SOIL CALLOUT	MATERIALS ENCOUNTERED AND DRILLING CONDITIONS (*)
9" CNI	concrete					0	ASPHALT	0-.75 ft; Asphalt.
3" PVC sch 40 flush threaded w/ 3" slip fit threaded casing	#3 Monterey Sand	H A				1–4	GP	.75-4.5 ft.; Cobbly boulders; 70% boulders (approximately 8" to 15" in diameter) rounded, mostly consisting of mafic basaltic material - 20% cobbles, rounded, consisting of mafic fine grained volcanics; 10% v. fine to coarse sand, rounded, well graded, mostly quartz some micas. very hard drilling, moist. Cobbles & boulders are black (N1) & sand is lt. brown (5YR 5/6). No HC odors.
	grout → bentonite					5–6	GP/GM	4.5-8.0 ft; Sandy gravel; 70-80% medium gravel, rounded, poorly graded, consisting of mafic volcanics (basalts), 10-15% medium to coarse sand, rounded grains, poorly graded, consisting of quartz & mafics; 5-10% med to low plastic fines; Sand content up to 20% at 6.0 ft. Clay almost nonexistent; moist very loose easily penetrated; lt. olive gray (5Y 6/1) to Olive gray (5Y 4/1). No HC odors noted in drilling cuttings.
3" PVC sch 40 .020 slotted casing	#3 Monterey sand	O DEX				7–8		
						9–12	GP/GC	8.0-13.0 ft.; Cobbly gravel; 50-60% medium gravel, rounded, consisting of mafic volcanics with felsic texture; 20-30% cobbles, rounded, mainly volcanics like basalt & pumice fragments some chips of quartz; 10-20% medium to low plastic fines, moist; hard to easy drilling penetration; Olive gray (5Y 3/2) to Dark yellowish brown (10YR 4/2). No HC odors noticed in drill cuttings.
						13–16	GW	13.0-18.0 ft.; Gravelly boulders; 70% boulders rounded, reaching 1-1.5 ft in diameter, black volcanic in origin; 15% medium gravel, rounded consisting of volcanics; 10% cobbles, rounded, consisting of black mafic volcanics, 5% clay (medium to low plastic fines). Cobbles gravel and Boulders are black (N1) to Medium dark gray (N4). Slight HC odor at 16 ft. noted in drill cyclone exhaust & cuttings.
						17–20	GW	

(*) Estimated % from cyclone discharge

DRILLER Gary Heaman & Rick Horstman RIG 7860-Schramm

BY Jim Havel DATE 5/12/89 CHK'D BY

1989 H 320 44 N

LOCATION OF BORING

See pg. # 1

CLIENT ARCO PRODUCTS COMPANY				BORING NO. SVW-2
LOCATION 2240 B ST, SPARKS,		JOB NO. 4165		SHEET 2 OF 2
WATER LEVEL				DRILLING START TIME 1800 DATE 5/11/89
TIME				FINISH TIME 0015 DATE 5/12/89
DATE				
CASING DEPTH				

DRILLING CONTRACTOR WAYNE DRILLING

DRILLING METHOD ODEX

SAMPLING METHOD 5 3/8" Tubing (T) Driven from Surface with a Air driven casing hammer

N/S | E/W | TOC ELEV. ~~[illegible]~~

SURFACE CONDITIONS Asphalt

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 .020 slot casing	#3 Monterey Sand	ODEX				20	GW
						21	
						22	
						23	
						24	
						25	GP
		T			3min	26	
		ODEX				27	
					3min	28	
						29	
						30	
						31	
						32	
						33	
						34	
						35	
						36	
						37	
						38	
						39	
						40	

MATERIALS ENCOUNTERED AND DRILLING CONDITIONS

18.0 - 25.0 ft.; Clayey ~~[illegible]~~ cobbles; 60% cobbles rounded consisting of mafic felsic volcanics; 20% med. ~~[illegible]~~ gravel ~~[illegible]~~, ~~[illegible]~~, consisting of basalts, pumice, & quartz; 20% medium to low plastic fines; moist; easier drilling (penetration) Moderate Olive brown (5Y 4/4). Strong HC odor at 19 - 23 ft in cuttings from drill. Sample collected at 25.0 ft. - TLV head space reading 200 ppm TPH.

25 - 27 ft. Sandy ~~Clayey~~ cobbles. - 70% cobbles rounded, consisting of fine grained mafic volcanics, 20% ~~[illegible]~~ coarse sand, rounded, poorly graded, ~~[illegible]~~ consisting of quartz and micas, 10% plastic fines; moist to v. moist; easy drilling except at 26 ft were it is expected a large boulder (1' diameter) was obstructing tool advancement; Grayish olive green (5GY 3/2). Strong HC odors recorded 500 ppm TPH with TLV on drilling cyclone exhaust. Sample collected at 27.5 feet, TLV headspace analysis 400 ppm TPH refusal with sampler at 26.0 ft ODEX to 27' and re-inserted sample tube.

Total depth of borehole approx 28'

Completed bore hole with 3" ID sch 40 PVC .020 slotted casing from 26 ft. to 6 ft below grade (bg) and from 6' to 0.5' bg with 3" ID sch 40 PVC blnk casing fitted with a 3" ID sch 40 PVC slip to thread ST coupling capped with a NPT plug. Top of blank was capped with a 3" PVC slip cap. Backfilled Annulus with #3 Monerey Sand from 28 ft. to 5.5 ft bg, bentonite from 5.5 ft to 3.5 ft (bg.) and neat cement from 3.5 ft to 3.0 ft bg, Sand was backfilled from 3.0 ft to 1.0 ft bg and a ~~[illegible]~~ 9" ID CNI vault box set in concrete was completed to grade.

DRILLER ~~[illegible]~~ RIG 7660 - Schramm

BY [illegible] DATE 5/12/89 CHK'D BY

Log # 32044 3/3

* Estimated % from cyclone discharge