

OFFICE USE ONLY
 Log No. 31867
 Permit No. _____
 Basin. 9-106

WELL DRILLER'S REPORT

Please complete this form in its entirety

NOTICE OF INTENT NO. 16320

PRINT OR TYPE ONLY

1. OWNER Groundwater Resources, Inc. ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS 5400 ALDRIN CT
BAKERSFIELD, CAL. 93313
 2. LOCATION N.E. 1/4, N.E. 1/4 Sec. 23 T. 10N N/S R. 21 E. Douglas County _____
 PERMIT NO. W-318 Issued by Water Resources Parcel No. _____ Subdivision Name _____

3. TYPE OF WORK
 New Well Recondition
 Deepen Other

4. PROPOSED USE
 Domestic Irrigation Test
 Municipal Industrial Stock

5. TYPE WELL
 Cable Rotary
 Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
LOOSE TOP SOIL		0	2	2
SCHIST / Phyllite		2	80	78
WHITE CLAY		80	85	5
SCHIST		85	129	44
Encountered 15' H ₂ O	129			
SCHIST		140	140	11

WELL - MW 13
 '90 MW 14
 '90 MW 14
 STATE ENGINEER

8. WELL CONSTRUCTION
 Diameter 5 3/4 inches Total depth 140' feet
 Casing record SCH 40 2" P.V.C.
 Weight per foot _____ Thickness _____

Diameter	From	To
<u>2</u> inches	<u>0</u> feet	<u>130</u> feet
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet

Surface seal: Yes No Type NEAT CEMENT
 Depth of seal 0-9' - SEE ATTACHED LETTER feet
 Gravel packed: Yes No
 Gravel packed from 77.5 feet to 130 feet

Perforations:
 Type perforation SLOTTED
 Size perforation .04"
 From 100 feet to 130 feet
 From _____ feet to _____ feet

Date started OCTOBER 18, 1990
 Date completed OCTOBER 18, 1990

7. WELL TEST DATA

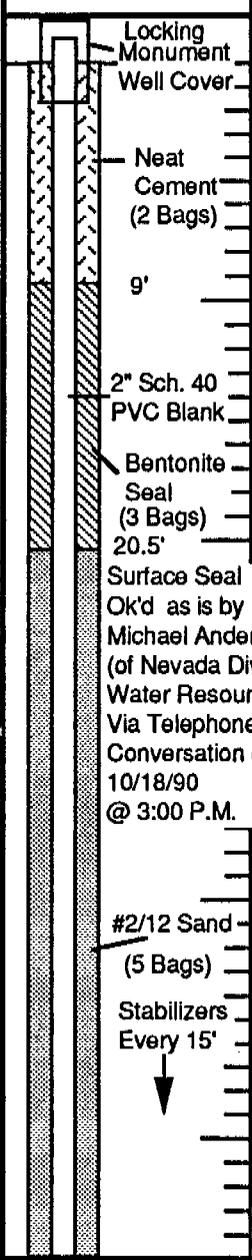
Pump RPM	G.P.M.	Draw Down	After Hours Pump

BAILER TEST

G.P.M.	Draw down	feet	hours

9. WATER LEVEL
 Static water level 112 feet below land surface
 Flow 6 G.P.M. _____ P.S.I.
 Water temperature POOR °F Quality POOR

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.
 Name Ed KOSTELECKY (BECKER Drills, Inc.) Contractor
 Address P.O. Box 567 COMMERCE City, Co. 80037 Contractor
 Nevada contractor's license number issued by the State Contractor's Board 0010071
 Nevada contractor's driller's number issued by the Division of Water Resources 0029577
 Nevada driller's license number issued by the Division of Water Resources the on-site driller M-1724
 Signed Ed Kostecky
 By driller performing actual drilling on site or contractor
 Date Nov. 13, 1990

WELL COMPLETION	ANALYSES		BLOWCOUNT	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s.-desig.	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH Diesel ppm	TIP P.I.D. ppm							
Locking Monument Well Cover Neat Cement (2 Bags) 9' 2" Sch. 40 PVC Blank Bentonite Seal (3 Bags) 20.5' Surface Seal OK'd as is by Michael Anderson (of Nevada Div. of Water Resources) Via Telephone Conversation on 10/18/90 @ 3:00 P.M. #2/12 Sand (5 Bags) Stabilizers Every 15' 				0					
		0		5					First 2 feet are loose top soil
				10		MW13-10			20 FT. COMPOSITE SAMPLES Using some water to keep dust down
				15					Schist/Phyllite, med to dk gry, platy to subblocky, moist, occ angular, no petrol odor, hard.
				20					
				25					
				30		MW13-30			Schist/Phyllite, med to dk gry, dry, platy to subblocky cuttings, tr fractures with rust staining, no petrol odor.
				35					
				40					
				45					
				50					

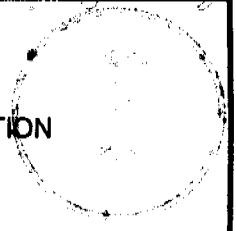
LOGGED BY: RJB DATE DRILLED: 10/18/90 TOTAL DEPTH: 140 FT. DRILLING COMPANY: BECKER DRILL	DIAMETER OF BORING: 5 3/4" WATER ENCOUNTERED AT: 112' SAMPLING METHOD: CYCLONE
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GROUNDWATER RESOURCES, INC. (805)835-7700 environmental/geotechnical services PROJECT NUMBER: 1410-4	BORING LOCATION: NE CORNER OF SITE PROJECT NAME: CONTEL AUTOVON, TOPAZ, NEVADA	PLATE 4 page 1 of 3
	LOG OF BORING MW-13	

WELL COMPLETION	ANALYSES		BLOWCOUNT	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s.-desig.	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH Diesel ppm	TIP P.I.D. ppm							
#2/12 Sand 55' Bentonite Seal (5 Bags) 77.5' Medium Aquarium Filter Pack (9 bags)	ND	0		50		MW13-50			Schist/Phyllite, becoming grysh brn in color, tr fine dust, tr clay, blocky cuttings, no petrol odor. Schist, dark gry, dry to humid, subblocky cuttings, no petrol odor, common rust staining on fracture surfaces, no petrol odor. Harder drilling @ 75'. Trace white clay cuttings @ 80'. Shut water off at 85 feet. Schist, dk gry, subblocky, no petrol odor, tr rust staining on fracture surfaces.
	ND			55					
				60					
				65					
		0		70		MW13-70			
				75					
				80					
				85					
		ND	0		90		MW13-90		
		ND			95				
				100					

LOGGED BY: RJB DATE DRILLED: 10/18/90 TOTAL DEPTH: 140 FT. DRILLING COMPANY: BECKER DRILL	DIAMETER OF BORING: 5 3/4" WATER ENCOUNTERED AT: 112 FT. SAMPLING METHOD: CYCLONE
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	PROJECT NAME: CONTEL AUTOVON, TOPAZ, NEVADA LOG OF BORING MW-13	



	ANALYSES		BLOWCOUNT	DEPTH (feet)	SAMPLE		lithology symbol	u.s.c.s.-desig.	SOIL DESCRIPTION
	Lab	Field			INTERVAL	NUMBER			
	Benzene TPH Diesel ppm	TIP P.I.D. ppm							
<p>Medium Aquarium Sand</p> <p>.04-inch Slotted Sch. 40 2" PVC</p> <p>130' 2" End Plug</p> <p>Slough</p> <p>140'</p> <p>5 3/4" Open Hole</p>				100					
		0		105					
	▽			110		MW13-110			Schist, dk gry, occ dk grnsh gry, subblocky to blocky cuttings, hard to soft, powdery, tr white clay chips, dry to humid, no petroleum odor.
	112'			115					Becoming damp @ 124'.
				120					
				125					
				130		MW13-130			Schist, dk gry, occ tan colors from fracture fill, moist to wet, good water flow at 129', tr sheen on water surface.
	ND	ND		135					
	Water			140					Water has black carbon scum on surface, no petrol odor.
	ND	ND		145					TD @140'.
				150					

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GROUNDWATER RESOURCES, INC. (805)835-7700 environmental/geotechnical services PROJECT NUMBER: 1410-4	BORING LOCATION: NE CORNER OF SITE	PLATE 4 page 3 of 3
	PROJECT NAME: CONTEL AUTOVON, TOPAZ, NEVADA	

LOG OF BORING MW-13