

**Legend**

- Soil Property Location
- ▭ NERT Property Boundary
- ▭ Study Area
- - - Paleochannel (from Northgate 2010)
- - - Former Ditches
- ▨ Interceptor Well Field
- ▬ Groundwater Barrier Wall

**Letter of Understanding (LOUs)**

- ▭ LOUs not within or directly upgradient of Parcels
- ▭ LOUs within or directly upgradient of Parcels

**Chloroform Concentrations (µg/L)**  
 µg/L = microgram per liter

- ▭ <1.62
- ▭ 1.62-16.2
- ▭ 16.2-162
- ▭ 162-1,620
- ▭ 1,620-16,200
- ▭ >16,200

**Soil Property Sampling Locations**  
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure  
**R-1**



Path: H:\LePetomane\NERT\Leasehold\_Offsite Operations\GIS\FigureG-1\_SampLoc.mxd

"If the page filmed is not as legible as this label, it is due to the quality of the original."

Geraghty & Miller, Inc.

WELL LOG

Well No.: H-23

Date Completed: 1/31/80

Project: Stauffer Chemical Company

Location: Henderson, Nevada

Description

Depth Below  
Land Surface  
(feet)

Sand, silty to clayey, grayish-brown very fine to very coarse (poorly sorted), and gravel, pebbles, cobbles and boulders, rounded to subangular; also with layers of caliche and caliche-cemented sand and gravel

0 - 42½

Notes: layers of cemented sand and gravel 27'-29', 31'-34', 40'-41'; organic odor in mud at 37'

Clay, silty, to silt, clayey, light brown with traces of sand and gravel in matrix; also, with occasional thin layers of sand, reworked caliche, and caliche (Muddy Creek Formation)

42½ - 101

Notes: thin layers of white silt and clay (reworked caliche) at 54'-55', 87', 96'.

LITHOLOGY LOG

FOR HENDERSON

WELL NO. H-28

<u>Description</u>	<u>Depth Below Land Surface (feet)</u>
Sand, silty to clayey, grayish-brown very fine to very coarse (poorly sorted), and gravel, pebbles, cobbles and boulders, rounded to subangular; also with layers of caliche and caliche-cemented sand and gravel	0 - 44½
Clay, silty, to silt, clayey, light brown with traces of sand and gravel in matrix; also, with occasional thin layers of sand, reworked caliche, and caliche (Muddy Creek Formation)	44½ - 51

Data from Geraghty and Miller, Inc., October, 1980.



SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY <b>KMC LLC</b>		LOCATION <b>HENDERSON NV</b>		BORING NUMBER <b>M 106</b>			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6'	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	
4	0-4 Gravel, sdy, lt brn (5YR5/4), interbeds of sdy gravel and gravelly sd. Sd 40-60%, vf-vcg, A-SR, Gravel 40-60, pea size to 1/2", volc, com caliche rinds on clasts. sd. calcareous		GP						
9	4-9 SAND, gravelly, lt brn, com calichification vf-vL, A-SR, w/ 10-20% volc pea gravel.		SW						
15	9-20 SAND, gravelly & silty, lt brn. 10-20% silt in matrix, sd, vf-vc, A-SR, 75-35% pea gravel, volc, up to 2". mod-com caliche rinds		GM						DAMP @ 15'
25	20-28 SILT, lt brn (5YR5/4) w/minor lt gry oran (10YR 8/4). Non-calcareous. Tr. vf-fg sd. 5-10% clay in matrix		ML						
30	28-30 SILT, calcareous, lt brn, com. v. thin parallel calcareous laminae		ML						
35	30-38 SILT, sdy and SAND, silty, interbedded, lt brn. SLT:SD = 70:30. vfg, A-SA sd, 20%, in SILT 30-40% SILT in sd		ML/ SM						WET @ 30'
38	38-42 SAND, silty, lt brn, vfg w/ 30-40% silt		SM						

Water Table (24 Hour)  
 Water Table (Time of Boring)  
 PID Photoionization Detection (ppm)  
 NO. Identifies Sample by Number  
 TYPE Sample Collection Method

SPLIT-BARREL       AUGER       ROCK CORE  
 THIN-WALLED TUBE       CONTINUOUS SAMPLER       NO RECOVERY

DEPTH Depth Top and Bottom of Sample  
 REC. Actual Length of Recovered Sample in Feet

**GRAPHIC LOG LEGEND**

	CLAY		DEBRIS FILL
	SILT		HIGHLY ORGANIC (PEAT)
	SAND		SANDY CLAY
	GRAVEL		CLAYEY SAND
	SILTY CLAY		
	CLAYEY SILT		

DATE DRILLED: **2-2-01**      PAGE: **1 of 2**  
 DRILLING METHOD: **PERCUSSION**  
 DRILLED BY: **LAYNE**  
 LOGGED BY: **ED KRISH**  
 EXISTING GRADE ELEVATION (FT. AMSL):  
 LOCATION OR GRID COORDINATES:

**SOIL BORING LOG** KM-5655-B

<b>KERR-McGEE CORPORATION</b> Hydrology Dept. - S&EA Division	KM SUBSIDIARY <b>KMC LLC</b>	LOCATION <b>Henderson NV</b>	BORING NUMBER <b>M-106</b>
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DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
42	sl. calcareous		SM							
45	42-52 SILT, lt brn. w/ 10% clay and 10% vfg sd.		ML							
50	42-47 mod calcareous lt. gry oran (10YR 8/4)		ML					50-51.5	100%	
55	52-55 SILT, sdy, lt brn, 20-30% vfg sd.		ML							
60	55-64' SAND, sily, lt brn and pale oran (10YR 7/2) where calcareous. vfg, A-SA w/ 30-40% silt & 5-10% clay		SM							
64	58-62 calcareous		SM							
70	64-75 SILT, sdy, lt brn, sl. calcareous. 20-25% vfg sd, 10% clay		ML					70-71.5	100%	
75	75-78 SILT, sdy, 20% vfg, mottled v. pale oran (10YR 8/2) & yell gry (5Y 8/1)		ML							
78	com. calc. nodules, tr. gyp. 10-15% clay in matrix									TD @ 78'

<b>EXPLANATION</b>	▼	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>				DATE DRILLED	PAGE
	▽	Water Table (Time of Boring)					2-2-01	2 of 2
	PID	Photoionization Detection (ppm)			DRILLING METHOD			
	NO.	Identifies Sample by Number			Percussion			
	TYPE	Sample Collection Method			DRILLED BY			
	SPLIT-BARREL			LAYNE				
	AUGER			LOGGED BY				
	ROCK CORE			Ed Krish				
	THIN-WALLED TUBE			EXISTING GRADE ELEVATION (FT. AMSL)				
	CONTINUOUS SAMPLER			LOCATION OR GRID COORDINATES				
	NO RECOVERY							
DEPTH		Depth Top and Bottom of Sample						
REC.		Actual Length of Recovered Sample in Feet						

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM

Protective Pipe

Yes  No

Steel  PVC

Surveying Pin ?

Yes  No

Casing Cap Vent ? Yes  No

Lock ? Yes  No

Weep Hole ? Yes  No

Concrete Pad \_\_\_\_\_ Ft. x \_\_\_\_\_ Ft. x \_\_\_\_\_ Inches

Concrete

10 Ft.

DEPTH

BELOW GRADE FROM TOP OF CASING

10

Cement/Bentonite Grout Mix

Yes  No

5.5 Gallons Water to  
94Lb. Bag Cement &  
3-5 Lb. Bentonite  
Powder

Other: \_\_\_\_\_

50 Ft.

60

Bentonite Seal

Pellets  Slurry

2 Ft.

62

Filter Pack  
Above Screen

3 Ft.

65

FILTER PACK MATERIAL

Silica Sand

Washed Sand

Pea Gravel

Other: \_\_\_\_\_

10 Ft.

75

Dense Phase Sampling Cup

Bottom Plug  
Yes  No

3 Ft.

78

Overdrilled Material  
Backfill

Ft.

Grout  Sand

Caved Material

Other: \_\_\_\_\_

### DRILLING INFORMATION:

- Borehole Diameter = 9 Inches.
- Were Drilling Additives Used ? Yes  No   
Revert  Bentonite  Water   
Solid Auger  Hollow Stem Auger
- Was Outer Steel Casing Used ? Yes  No   
Depth = \_\_\_\_\_ to \_\_\_\_\_ Feet.
- Borehole Diameter for Outer Casing \_\_\_\_\_ Inches.

### WELL CONSTRUCTION INFORMATION:

- Type of Casing: PVC  Galvanized  Teflon   
Stainless  Other \_\_\_\_\_
- Type of Casing Joints: Screw-Couple  Glue-Couple  Other \_\_\_\_\_
- Type of Well Screen: PVC  Galvanized   
Stainless  Teflon  Other \_\_\_\_\_
- Diameter of Casing and Well Screens:  
Casing 2 Inches, Screen 2 Inches.
- Slot Size of Screen: 0.020
- Type of Screen Perforation: Factory Slotted   
Hacksaw  Drilled  Other \_\_\_\_\_
- Installed Protector Pipe w/ Lock: Yes  No

### WELL DEVELOPMENT INFORMATION:

- How was Well Developed ? Bailing  Pumping   
Air Surging (Air or Nitrogen)  Other \_\_\_\_\_
- Time Spent on Well Development ?  
\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Minutes/Hours
- Approximate Water Volume Removed ? \_\_\_\_\_ Gallons
- Water Clarity Before Development ? Clear   
Turbid  Opaque
- Water Clarity After Development ? Clear   
Turbid  Opaque
- Did Water have Odor ? Yes  No   
If Yes, Describe \_\_\_\_\_
- Did Water have any Color ? Yes  No   
If Yes, Describe \_\_\_\_\_

### WATER LEVEL INFORMATION:

Water Level Summary (From Top of Casing)

During Drilling 20 Ft. Date 2-2-01

Before Development \_\_\_\_\_ Ft. Date \_\_\_\_\_

After Development \_\_\_\_\_ Ft. Date \_\_\_\_\_

Driller/Firm LAYNE

Drill Rig Type AP-1000

Date Installed 2-2-01

Drill Crew PERRY

Well No. M-106

Kerr-McGee  
Hydrologist Ed Krish

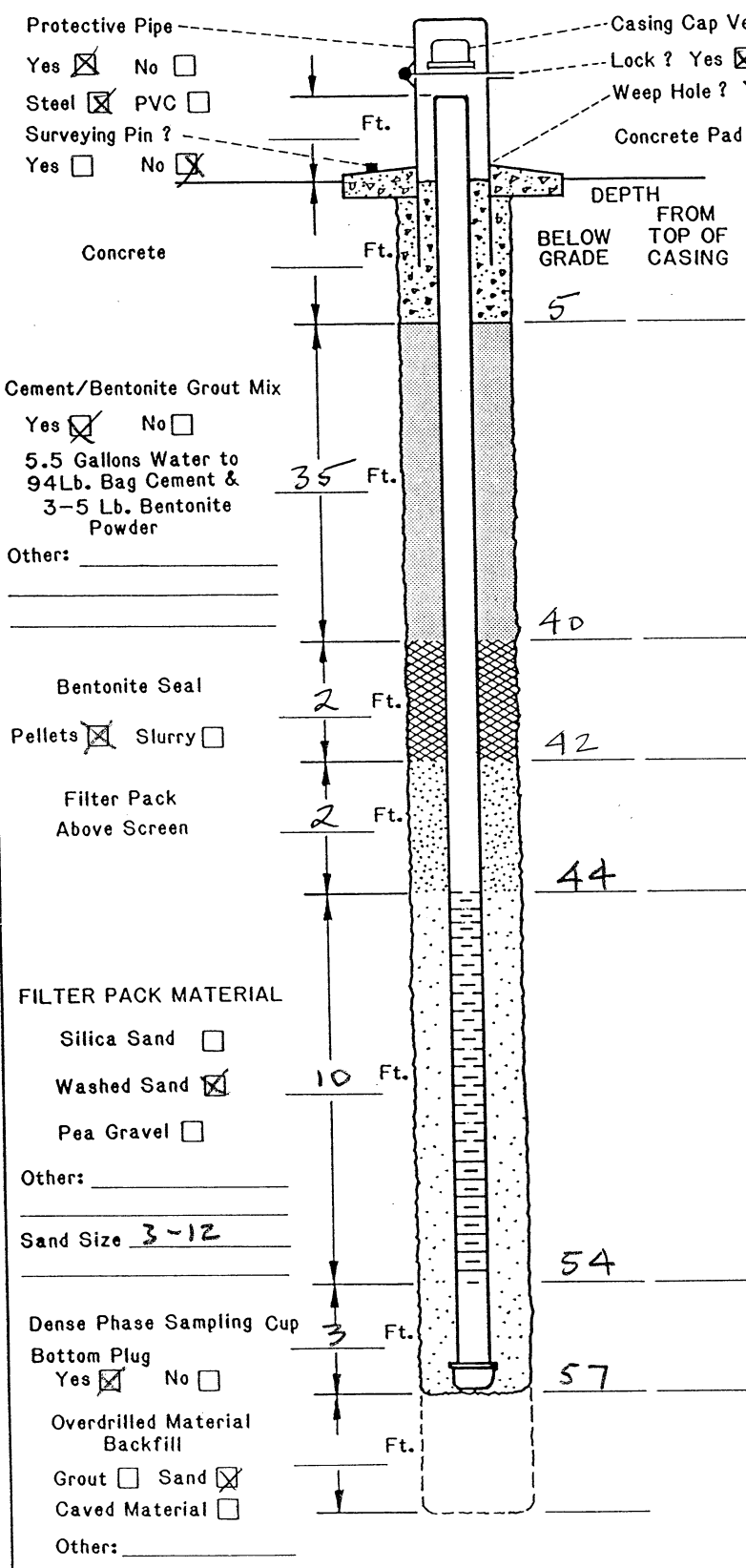
**SOIL BORING LOG** KM-5655-B

<b>KERR-McGEE CORPORATION</b> Hydrology Dept. - S&EA Division		KM SUBSIDIARY <b>KMC LLC</b>		LOCATION <b>HENDERSON, NY</b>			BORING NUMBER <b>M107</b>			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
TD 57' M107 is 10' S of M106. SEE M106 lith log for description										

<b>EXPLANATION</b>		Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>		DATE DRILLED	PAGE
		Water Table (Time of Boring)		CLAY	<b>2-2-01</b>	<b>1</b> of <b>1</b>
		PID Photoionization Detection (ppm)		SILT	DRILLING METHOD	
		Identifies Sample by Number		SAND	<b>PERCUSSION</b>	
		Sample Collection Method		GRAVEL	DRILLED BY	
	SPLIT-BARREL		SANDY CLAY	<b>LAYNE</b>		
	THIN-WALLED TUBE		CLAYEY SAND	LOGGED BY		
	AUGER		ROCK CORE	<b>Ed Krish</b>		
	CONTINUOUS SAMPLER		NO RECOVERY	EXISTING GRADE ELEVATION (FT AMSL)		
	DEPTH Depth Top and Bottom of Sample		CLAYEY SILTY	LOCATION OR GRID COORDINATES		
	REC. Actual Length of Recovered Sample in Feet		DEBRIS FILL			
			HIGHLY ORGANIC (PEAT)			

**KERR-McGEE CORPORATION  
HYDROLOGY DEPARTMENT  
MONITORING WELL INSTALLATION DIAGRAM**



Casing Cap Vent ? Yes  No   
 Lock ? Yes  No   
 Weep Hole ? Yes  No   
 Concrete Pad \_\_\_\_\_ Ft. x \_\_\_\_\_ Ft. x \_\_\_\_\_ Inches

**DRILLING INFORMATION:**

1. Borehole Diameter = 9 Inches.
2. Were Drilling Additives Used ? Yes  No   
 Revert  Bentonite  Water   
 Solid Auger  Hollow Stem Auger
3. Was Outer Steel Casing Used ? Yes  No   
 Depth = \_\_\_\_\_ to \_\_\_\_\_ Feet.
4. Borehole Diameter for Outer Casing \_\_\_\_\_ Inches.

**WELL CONSTRUCTION INFORMATION:**

1. Type of Casing: PVC  Galvanized  Teflon   
 Stainless  Other \_\_\_\_\_
2. Type of Casing Joints: Screw-Couple  Glue-Couple  Other \_\_\_\_\_
3. Type of Well Screen: PVC  Galvanized   
 Stainless  Teflon  Other \_\_\_\_\_
4. Diameter of Casing and Well Screens:  
 Casing 2 Inches, Screen 2 Inches.
5. Slot Size of Screens: 0.020
6. Type of Screen Perforation: Factory Slotted   
 Hacksaw  Drilled  Other \_\_\_\_\_
7. Installed Protector Pipe w/Lock: Yes  No

**WELL DEVELOPMENT INFORMATION:**

1. How was Well Developed ? Bailing  Pumping   
 Air Surging (Air or Nitrogen)  Other \_\_\_\_\_
2. Time Spent on Well Development ?  
 \_\_\_\_\_ / \_\_\_\_\_ Minutes/Hours
3. Approximate Water Volume Removed ? \_\_\_\_\_ Gallons
4. Water Clarity Before Development ? Clear   
 Turbid  Opaque
5. Water Clarity After Development ? Clear   
 Turbid  Opaque
6. Did Water have Odeur ? Yes  No   
 If Yes, Describe \_\_\_\_\_
7. Did Water have any Color ? Yes  No   
 If Yes, Describe \_\_\_\_\_

**WATER LEVEL INFORMATION:**

Water Level Summary (From Top of Casing)  
 During Drilling 20 Ft. Date 2-2-01  
 Before Development 19.47 Ft. Date 2-3-01  
 After Development \_\_\_\_\_ Ft. Date \_\_\_\_\_

Driller/Firm LAYNE Drill Rig Type AP-1000 Date Installed 2-2-01  
 Drill Crew Perry Well No. M-107 Kerr-McGee Hydrologist Ed Krish





1220 Avenida Acaso  
 Camarillo, California 93012  
 (805) 388-3775

Client: Tronox LLC  
 Project Number: 04020-023-151  
 Site Location: Henderson, NV  
 Coordinates: 26715198.289 N, 828917.057 E NAD83 Elevation: 1877.98 ft, msl  
 Drilling Method: Sonic - Continuous Core  
 Sample Type(s): Split Spoon/Core Boring Diameter: 7-inch

Boring No. M-117

Sheet: 1 of 2

Monitoring Well Installed: Yes

Screened Interval: 130-150 feet

Weather: Cold, cloudy, 30s to 40s

Logged By: Ed Krish

Date/Time Started: 3/11/06 7:30 am

Depth of Boring: 157 feet

Drilling Contractor: Prosonic

Ground Elevation:

Date/Time Finished: 3/11/06

Water Level: 79.4 feet

Depth (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.	Depth (Ft.)
10	M-117-0.5			10		SM (GM)	<p><b>ALLUVIUM: SILTY/GRAVELY SAND</b>, with silty gravel lenses present, pale yellow brown (10YR 6/4), 10-20% silt with trace clay, 60 to 80% sand (very fine- to very coarse-grained, angular to subrounded), 10 to 30% gravel to 2" maximum, (commonly 1/8" to 3/4", subangular to angular, volcanic to basaltic, well graded), dry, no unusual odor or staining.</p> <p>From 27 to 40 ft: brown (5YR 5/4).</p>	40 ft
	M-117-5			10	0.0			
	M-117-10			10	0.0			
20	M-117-20			10	0.0			
	M-117-20D							
30	M-117-30			10	0.0			
40	M-117-40			10	0.0			
50	M-117-50			10	0.0	GM		
						SM (GM)		
60	M-117-60			20	0.0			
70	M-117-70				0.0			
80	M-117-80			17	0.0			
	M-117-80D							
90								
100				20				

Notes:

Checked by: SWB

Date: 8/10/06



1220 Avenida Acaso  
 Camarillo, California 93012  
 (805) 388-3775

Client: Tronox LLC  
 Project Number: 04020-023-151  
 Site Location: Henderson, NV  
 Coordinates: 26715068.012 N, 828036.397 E; NAD 83 Elevation: 1874.53 feet  
 Drilling Method: Sonic - Continuous Core  
 Sample Type(s): Split Spoon/Core Boring Diameter: 7-inch

Boring No. M-118

Sheet: 1 of 2

Monitoring Well Installed: Yes

Screened Interval: 138-158 feet

Weather: Sunny, windy, 50s F

Logged by: Ed Krish

Date/Time Started: 3/8/06 11:45 am

Depth of Boring: 163 feet

Drilling Contractor: Prosonic

Ground Elevation:

Date/Time Finished: 3/8/06 5:05 pm

Water Level:

Depth (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.	Depth (Ft.)
10	M-118-0.5			10		SM (GM)	<p>ALLUVIUM: SILTY SAND and GRAVELY SAND, with silty gravel lenses present, brown (5YR 5/5), 15 to 20% silt, 65 to 70% sand (very fine- to very-coarse-grained, angular to subangular), 10 to 20% volcanic gravel to 4" maximum (commonly granule to pea gravel, 18" to 1/4", angular to subangular), dry, no unusual odor or staining.</p> <p>From 40 to 51 ft: very pale orange (10YR 8/2) with common caliche nodules and soft cement in sand matrix, nodules to 2 1/2".</p> <p>From 51 to 52 ft: Silty Sand, very fine- to fine-grained, common caliche nodules, possibly reworked Muddy Creek Fm.</p>	52 ft
	M-118-5				2.4			
	M-118-10			10	12.8			
20	M-118-20			10	5.1			
	M-118-20D							
30	M-118-30			10	2.9			
40	M-118-40			10	4.7			
50	M-118-50			10				
60	M-118-60			7	0.4	SM (GM)		
70				13				
80	M-118-80			7				
90				13				
100				13				
					3.4			

Notes:



1220 Avenida Acaso  
 Camarillo, California 93012  
 (805) 388-3775

<b>Client:</b> Tronox LLC	<b>Boring No. M-120</b>
<b>Project Number:</b> 04020-023-151	
<b>Site Location:</b> Henderson, NV	
<b>Coordinates:</b> 26715162.900 N, 828387.792 E, NAD 83 <b>Elevation:</b> 1875.81 ft, msl	<b>Sheet:</b> 1 of 2
<b>Drilling Method:</b> Sonic - Continuous Core	<b>Monitoring Well Installed:</b> Yes
<b>Sample Type(s):</b> Split Spoon/Core <b>Boring Diameter:</b> 7-inch	<b>Screened Interval:</b> 80-100 feet

<b>Weather:</b> Windy, 40s to 58s F	<b>Logged By:</b> Ed Krish	<b>Date/Time Started:</b> 3/8/06 9:00 am	<b>Depth of Boring:</b> 107 feet
<b>Drilling Contractor:</b> Prosonic	<b>Ground Elevation:</b>	<b>Date/Time Finished:</b> 3/8/06	<b>Water Level:</b> 79.47

Depth (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.	Depth (Ft.)
0-10	M-120-0.5 M-120-5 M-120-10			7 3 12		SW/SP	ALLUVIUM: SAND, brown (5YR 5/4), 20% silt and clay, 60% sand (very fine- to fine-grained with common medium- to very coarse-grained sand, angular to subangular), 20% granules and gravel (fine-grained to 1/2", angular to subangular), gravelly, dry, no unusual odors or staining.	21 ft
10-20	M-120-20			10	1.8	GM	ALLUVIUM: SANDY GRAVEL, brown (5YR 5/4), 20% silt and clay, 30% sand (very fine- to very coarse-grained, angular to subangular), 50% gravel to 3 1/2" (mostly 1/8" to 1 1/2", angular to subangular, basaltic), dry.	26 ft
20-30	M-120-30			3	0.8	SM	ALLUVIUM: SILTY SAND, brown (5YR 5/4), 25 to 35% silt, 75% sand (very fine- to fine-grained with minor medium- to coarse-grained sand, angular to subangular), 0 to 5% granules and gravel (fine gravel to 1/4"), dry, no unusual odors or staining. From 31 to 41 ft: moderate calcite cement.	
30-40	M-120-40 M-120-40D			12	2.2		From 48 to 49 ft: caliche zone with nodules to 3 1/2".	
40-50	M-120-50			12	1.6	SC/SM (GM)	MUDDY CREEK FM - FIRST COARSE-GRAINED FACIES: SAND, with silty gravel lenses present, silty gravel lenses present and varying amounts of silt, clay and/or gravel, brown (5YR 5/4), 0 to 20% clay, 10 to 50% silt, 50 to 70% sand (very fine- to fine-grained, with medium- to very coarse-grained sand, angular to subangular), 0 to 15% gravel (granules to fine gravel to 1", angular to subangular), dry. From 49 to 57 ft: sand, silty or clayey. From 57 to 83 ft: sand, gravelly ± silt.	49 ft
50-60	M-120-60			7	0.8			
60-70				15				
70-80	M-120-80			7	1.8		Damp at 80' From 83 to 102 ft: sand, silty.	
80-90				15			Wet at 85'	
90-100				8				

Notes:



1220 Avenida Acaso  
Camarillo, California 93012  
(805) 388-3775

Client: Tronox LLC  
Project Number: 04020-023-151  
Site Location: Henderson, NV  
Coordinates: 26715001.237 N, 827694.571 E, NAD 83 Elevation: 1872.90 ft, msl  
Drilling Method: Sonic  
Sample Type(s): Split Spoon/Core

Boring No. M-121

Sheet: 1 of 2

Monitoring Well Installed: Yes

Screened Interval: 77-97 feet

Weather: Windy, cold, 30s F

Logged By: Ed Krish

Date/Time Started: 3/10/06 7:30 am

Depth of Boring: 107 feet

Drilling Contractor: Prosonic

Ground Elevation:

Date/Time Finished: 3/10/06 1:00 pm

Water Level: 76.1

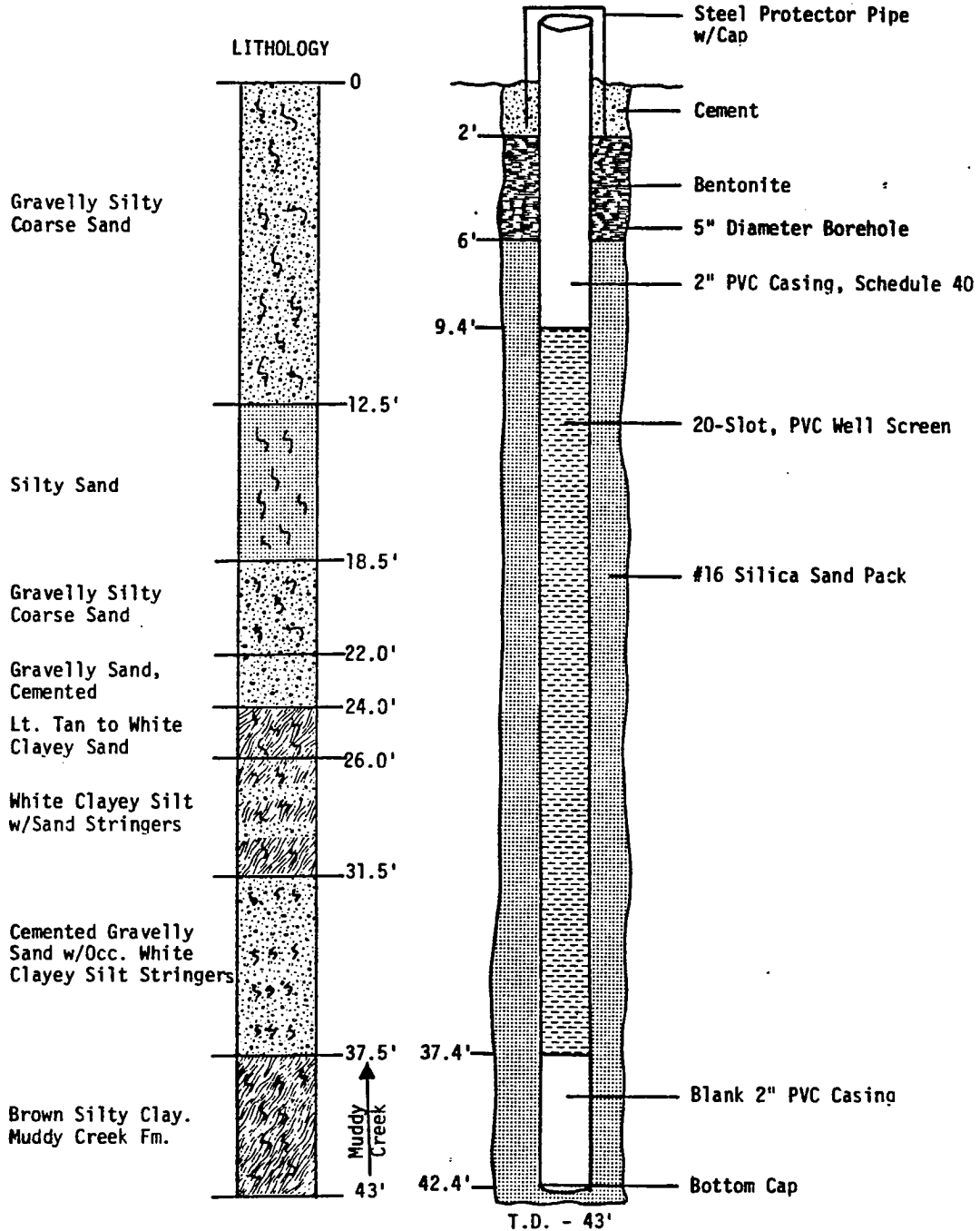
Depth (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (feet)	Headspace (ppm)	U.S.C.S	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.	Depth (Ft.)
10	M-121-0.5 M-121-5 M-121-5D M-121-10			10	0.0	SM/GM	<p><b>ALLUVIUM: SILTY/GRAVELLY SAND</b>, brown (5YR 5/4), 15% silt with trace clay, 60% sand (very fine- to fine-grained, angular to subangular), 25% volcanic gravel (commonly 1/8" to 3/4", angular to subangular), dry, no unusual odors or staining.</p>	
20	M-121-20		10	17.2				
30	M-121-30		10	2.0				
40	M-121-40		6	0.8				
45				4			From 44 to 45ft: Silty Sand, 75% sand (very fine-grained sand with medium- to coarse-grained sand, angular to subangular), caliche zone with nodules to 4 1/2".	45 ft
50	M-121-50		10	3.3	SM (GM)	<p><b>MUDDY CREEK FM - FIRST COARSE-GRAINED FACIES: SILTY SAND and GRAVELLY SAND</b>, with silty gravel lenses present, brown (5YR 5/5), locally very silty to 40% silt with trace clay, gravelly zones with 5 to 15% gravel (granules and fine gravel to 1", commonly 1/8" to 1/4", angular to subangular), no unusual odors or staining.</p> <p>From 45 to 52 ft: with 5% granules to 1/4".</p>		
60	M-121-60		10	89.6		From 63 to 67 ft: with 10% granules to 1/4".		
70			13	104.0		From 71 to 72 ft: with 5% granules to 1/8". Damp at 71'		
80	M-121-80		17	0.0		From 77 to 79 ft: with 5% granules to 1/8". From 80 to 82 ft: with 15% granules, fine gravel to 1". From 82 to 89 ft: with 5% granules to 1/8". Wet at 80' From 89 to 92 ft: with 10% granules to 1/4".		
100			10			From 97 to 102 ft: with 5% granules to 1/8".		

Notes:

Checked by SWB

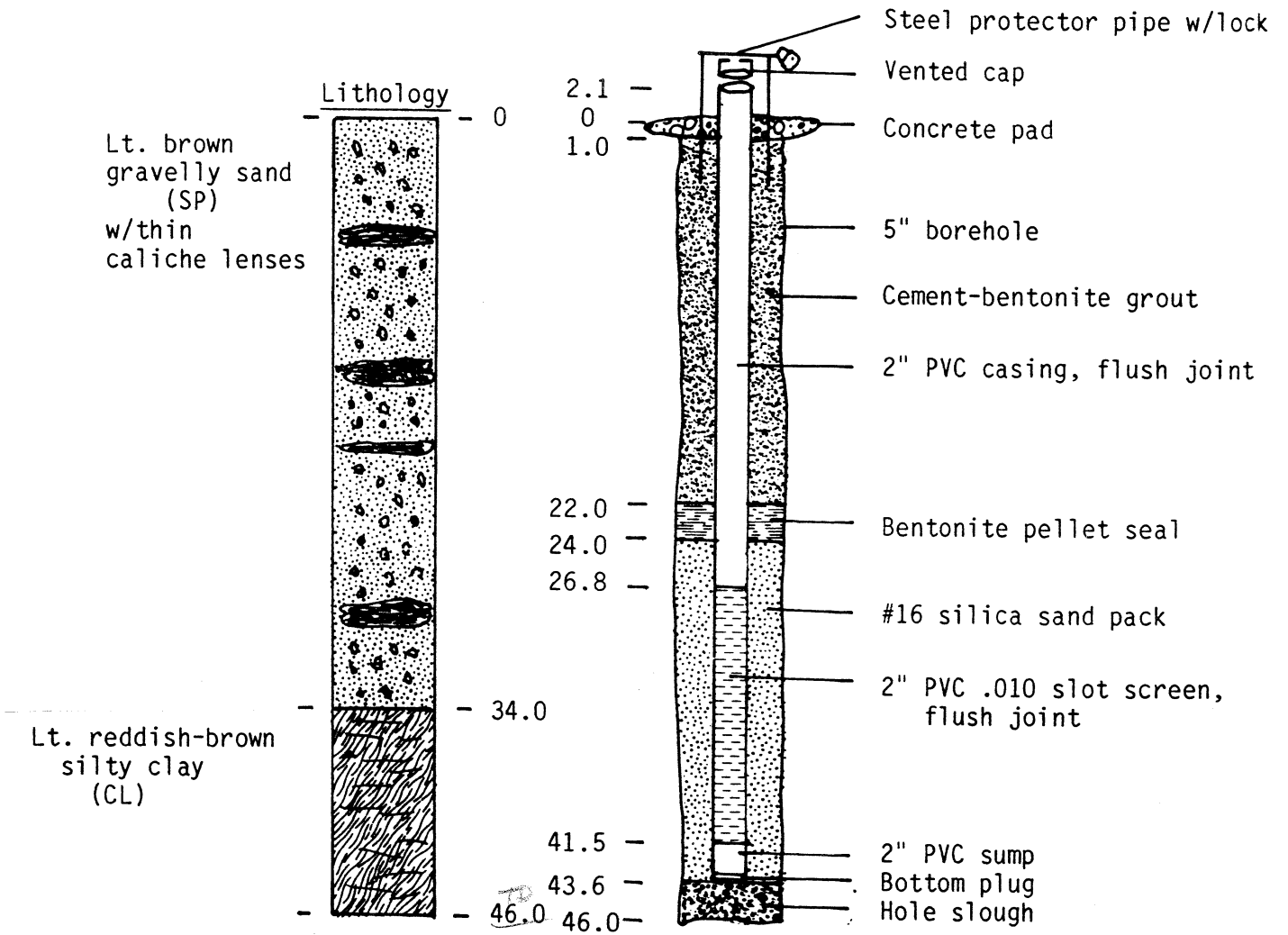
Date: 8/10/09

**WELL CONSTRUCTION DIAGRAM  
MONITOR WELL M-23  
HENDERSON FACILITY**





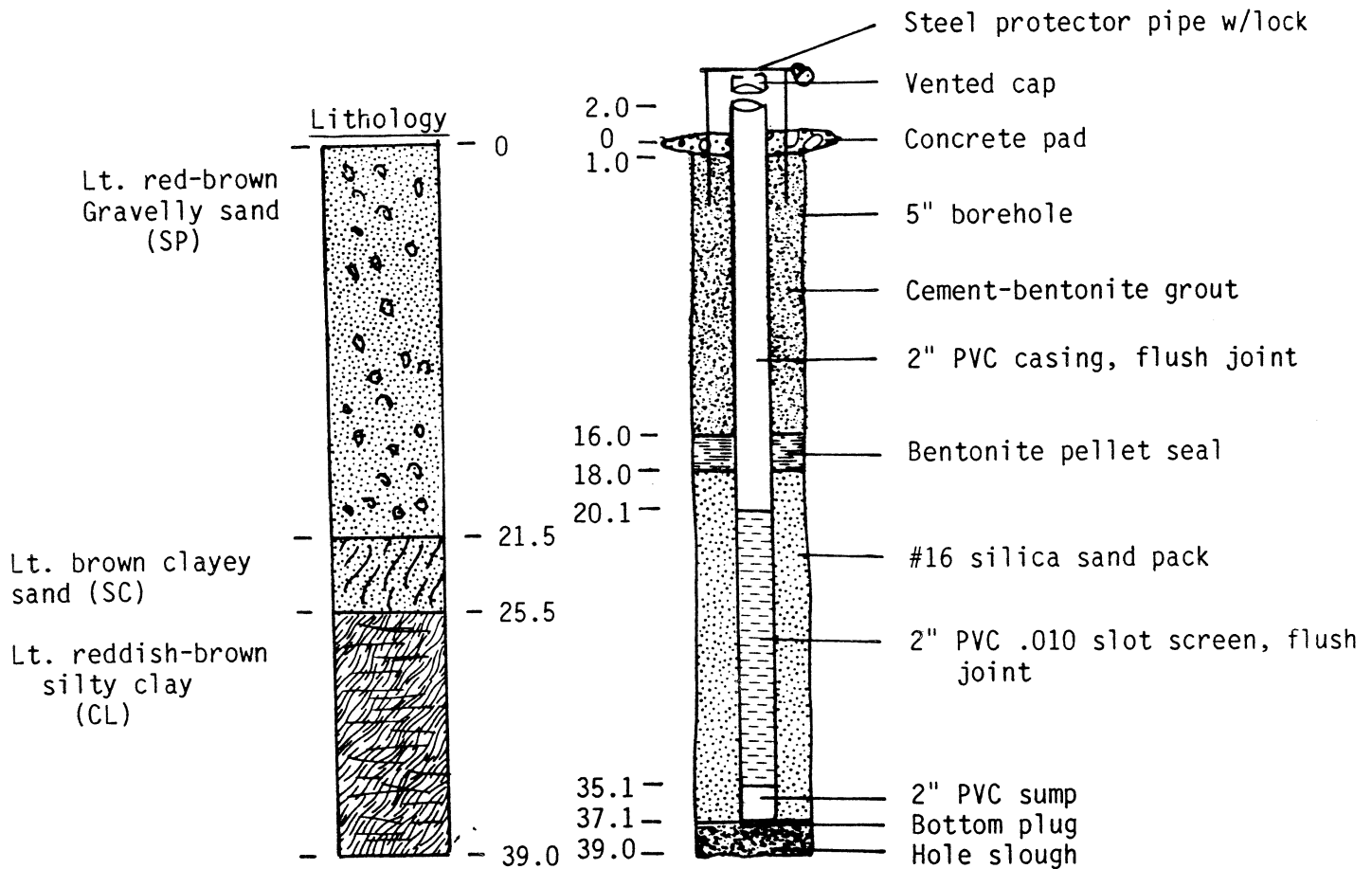
WELL CONSTRUCTION DIAGRAM  
 WELL M-6A  
 HENDERSON, NV



Date Drilled: 12-18-86  
 Drilled By: Mooney Drilling  
 Drilling Method: Rotary Wash  
 Logged By: W. M. Goodman, KM

WELL CONSTRUCTION DIAGRAM  
 WELL M-7A  
 HENDERSON, NV

P-A



Date Drilled: 12-18-86  
 Drilled By: Mooney Drilling  
 Drilling Method: Rotary Wash,  
 Bentonite  
 Logged By: W. M. Goodman, KM

**SOIL BORING LOG** KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services		KM SUBSIDIARY CHEMICAL	LOCATION MENDERSON, NV.		BORING NUMBER M-92					
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	SILTY SAND, LT-MEDIUM BROWN, W-L GRADED, DRY TO SLIGHTLY MOIST  CALICHE-CEMENTED GRAVEL ZONE @ 4-6'		SM							
10	SILTY SAND, FINE-CHANGED GRAVEL, CALICHE CEMENTED GRAVELLY ZONE @ 9-14'		SM							EARTHY OR MUSTY ODOR NOTED DURING DRILLING
15	SILTY SAND AS ABOVE, BECOMING MODERATELY MOIST @ 18'		SM							
20	SILTY CLAY, LT. BROWN, SLI. TO MODERATELY MOIST, STIFF, OCC. FINE TO MED SAND GRAINS		CL							
35	SILTY CLAY AS ABOVE; SATURATED, MOD. PLASTIC									
40										

EXPLANATION	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b> CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT DEBRIS FILL HIGHLY ORGANIC PEAT SANDY CLAY CLAYEY SAND CALICHE	DATE DRILLED 5/4-5/93	PAGE 1 of 2
	Water Table (Time of Boring)		DRILLING METHOD HOLLOW STEM AUGER	
	PID NO. TYPE Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method	DRILLED BY WESTERN TECH.		
	SPLIT-BARREL AUGER ROCK CORE	LOGGED BY - REED		
	THIN WALLED TUBE CONTINUOUS SAMPLER NO RECOVERY	EXISTING GRADE ELEVATION - FT AMSL ~ 1800'		
DEPTH: Depth Top and Bottom of Sample REC.: Actual Length of Recovered Sample in Feet	LOCATION OR GRID COORDINATES			

**SOIL BORING LOG** KM-5655-A

<b>KERR-MCGEE CORPORATION</b> Hydrology Dept. Engineering Services		KM SUBSIDIARY <i>CHEMICAL</i>	LOCATION <i>HENDERSON, NV.</i>	BORING NUMBER <i>M-93</i>						
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
1	GRAVEL FILL									
5	SILTY SAND, LT TO MED. BROWN, DRY, ASD GRAVEL 1-6'		SM							
10	SILTY SAND AS ABOVE, GRAVEL AND COBBLES COMMON FROM 6-10'									NO HYDROCARBON OODR
15	SILTY SAND AS ABOVE, BECOMING SLI. MOIST; CALCIC-CEMENTED GRAVELLY ZONE FROM 14-15'		SM							
20										
23.5										
25	SILTY CLAY, LT. BROWN, SLI. MOIST, STIFF, SAND GRAINS COMMON		CL							
30										
33	SILTY CLAY SATURATED @ 33'		CL							NO HYDROCARBON OODR
35										
40										

<b>EXPLANATION</b>		Water Table (24 Hour)		Water Table (Time of Boring)		PID NO. TYPE		SPLIT BARREL		AUGER		ROCK CORE	
		THIN-WALLED TUBE				CONTINUOUS SAMPLER				NO RECOVERY			
		DEPTH	Depth Top and Bottom of Sample		REC.	Actual Length of Recovered Sample in Feet							
	<b>GRAPHIC LOG LEGEND</b>												
	CLAY		DEBRIS FILL		HIGHLY ORGANIC (PEAT)		SANDY CLAY		CLAYEY SAND		CALCIC		
	SILT		SAND		GRAVEL		SILTY CLAY		CLAYEY SILT				

DATE DRILLED <i>5/5/93</i>	PAGE <i>1 of 2</i>
DRILLING METHOD <i>HOLLOW STEM AUGER</i>	
DRILLED BY <i>WESTERN TECH.</i>	
LOGGED BY <i>T. REED</i>	
EXISTING GRADE ELEVATION, FT. AMSL. <i>~1798'</i>	
LOCATION OR GRID COORDINATES	

P-A 6/03

SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY KMC LLC		LOCATION HENDERSON, NV		BORING NUMBER PC 102				
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
0-8	GRAVEL, gry brn, sl. sdy (10-15) m-vc & sl sily (10%). Grav. up to 4", ave 1/2"		GP							start 11AM, finish 11:30 am wet @ 0' WTR @ 2'
8-14	sily SAND & sily sdy GRAVEL, interbedded		SM/ GM							dry 8-9' wet @ 9'
8-9	brn, sily (40%) vf-f sd		GM							
9-11	brn sily sdy gravel, 30% silt, 20% f-c sd, 50% pea gravel to 1"		ML/ SM							
11-14	brn, sily vf-f sd		SM							
14-19	sdly SILT and sily SAND, interbedded, brn to Hgnish brn. vf-f sd		GW							
19-22	sdly GRAVEL, gry brn, 30-40% vf-vc, A-SR sd in gran./pea gravel, SR-R, to 1/2" (vols)		SM GM/ SM							
22-24	sily SAND, brn 30% silt in vf-fg sd		SM							
24-28	sily sdy GRAVEL, dec silt from 30% @ 24 to 15% @ 28'. brn, f-mw/cg SR sd in pea grav/gran to 1/2-3/4"		GW							
28-36	sdly GRAVEL, gry brn & whitish. Contains abt 15. gravels. 20-30% f-vc; SR sd in gran/pea gravel ave 1" w/up to 6" locally		GM/ SM GW							
36-39			SM GW							

Water Table (24 Hour)  
 Water Table (Time of Boring)  
 PID Photoionization Detection (ppm)  
 NO. Identifies Sample by Number  
 TYPE Sample Collection Method

SPLIT-BARREL       AUGER       ROCK CORE  
 THIN-WALLED TUBE       CONTINUOUS SAMPLER       NO RECOVERY

DEPTH Depth Top and Bottom of Sample  
 REC. Actual Length of Recovered Sample in Feet

**GRAPHIC LOG LEGEND**

	CLAY		DEBRIS FILL
	SILT		HIGHLY ORGANIC (PEAT)
	SAND		SANDY CLAY
	GRAVEL		CLAYEY SAND
	SILTY CLAY	<input type="checkbox"/>	
	CLAYEY SILT	<input type="checkbox"/>	

DATE DRILLED 8-17-00      PAGE 1 of 2  
 DRILLING METHOD PERCUSSION  
 DRILLED BY LAYNE  
 LOGGED BY ED KRISH  
 EXISTING GRADE ELEVATION (FT. AMSL)  
 LOCATION OR GRID COORDINATES





**SOIL BORING LOG** KM-5655-B

<b>KERR-McGEE CORPORATION</b> Hydrology Dept. - S&EA Division	KM SUBSIDIARY <b>KmCLLC</b>	LOCATION <b>HENDERSON, NV.</b>	BORING NUMBER <b>PC-37</b>
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DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	
5	SAND/SILTY SAND; OCC. GRAVEL; LT. TAN-BROWN; WELL-GRADED; GRAVEL ZONE @ 3-4'	SM							
16	SAND AS ABOVE; GRAVEL ZONE @ 12-13'								
15									
20	SAND AS ABOVE; GRAY-BROWN; GRAVEL ZONE @ 22'								
25									
27									
30	SANDY SILT; OCC. GRAVEL; LT. GRAY-BROWN; SATURATED.	ML							
35									

<b>EXPLANATION</b>	▼	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>		DATE DRILLED <b>4/27/98</b>	PAGE <b>1 of 2</b>
	▽	Water Table (Time of Boring)	[diagonal lines]	CLAY	[stippled]	DEBRIS FILL
	PID	Photoionization Detection (ppm)	[horizontal lines]	SILT	[wavy]	HIGHLY ORGANIC (PEAT)
	NO.	Identifies Sample by Number	[dots]	SAND	[diagonal lines]	SANDY CLAY
	TYPE	Sample Collection Method	[cross-hatch]	GRAVEL	[diagonal lines]	CLAYEY SAND
[X]	SPLIT-BARREL	[vertical bar]	AUGER	[diagonal lines]	SILT	DRILLED BY <b>HSA</b>
[thin bar]	THIN-WALLED TUBE	[vertical bar]	CONTINUOUS SAMPLER	[diagonal lines]	SANDY CLAY	LOGGED BY <b>WEBER ORLG.</b>
[rock core]	ROCK CORE	[diagonal bar]	NO RECOVERY	[diagonal lines]	CLAYEY SAND	EXISTING GRADE ELEVATION (FT. AMSL) <b>T. PRED</b>
DEPTH	Depth Top and Bottom of Sample	[diagonal lines]	SILTY CLAY	[diagonal lines]	CLAYEY SILT	LOCATION OR GRID COORDINATES
REC.	Actual Length of Recovered Sample in Feet	[diagonal lines]	CLAYEY SILT	[diagonal lines]		



**SOIL BORING LOG** KM-5655-B

<b>KERR-McGEE CORPORATION</b> Hydrology Dept. - S&EA Division		KM SUBSIDIARY <b>KMCLLC</b>		LOCATION <b>HENDERSON, NV</b>		BORING NUMBER <b>PC-39</b>			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	
5	SAND / SILTY SAND; LT. TAN-BROWN; OCC. GRAVEL; SLI. MOIST; WELL-GRADED								
10	SAND AS ABOVE; GRAVEL ZONE @ 10'		SM						
15									
17			▽						
20									
25									
30									
35	GRAVEL ZONE @ 33-35'								
40									

<b>EXPLANATION</b>	▼	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>		DATE DRILLED <b>4/27/98</b>	PAGE <b>1 of 2</b>
	▽	Water Table (Time of Boring)			DRILLING METHOD <b>HSA</b>	
	PID NO. TYPE	Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method	CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT	DEBRIS FILL HIGHLY ORGANIC (PEAT) SANDY CLAY CLAYEY SAND	DRILLED BY <b>WEBER DRG.</b>	
	SPLIT-BARREL THIN-WALLED TUBE	AUGER CONTINUOUS SAMPLER	ROCK CORE NO RECOVERY		LOGGED BY <b>T. REED</b>	
	DEPTH	Depth Top and Bottom of Sample			EXISTING GRADE ELEVATION (FT. AMSL)	
REC.	Actual Length of Recovered Sample in Feet			LOCATION OR GRID COORDINATES		







SOIL BORING LOG KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services		KM SUBSIDIARY Chemical		LOCATION Herdersburg, NY		BORING NUMBER PC-71																																																																																
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS																																																																														
						NO.	TYPE		DEPTH	REC.																																																																												
5	Tan to reddish brown silty sand with variable small to medium gravel in thin layers.  Alluvial Sequence  Alluvial and Gray sand  Hard red clay  reddish-brown silty clay  Reddish-brown clay, blocky, dry-huddy creek TD 33 Ft		GM																																																																																			
10									17.5-18 0.5 1055 20-21 1' 1045 24.5-26 1.5 1055 27-28 1' 1110 30-31 1' 1130																																																																													
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SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION  
Hydrology Dept. - S&EA Division

KM SUBSIDIARY  
**KMC LLC**

LOCATION  
**HENDERSON, NV**

BORING NUMBER  
**TR11**

DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
0-4	GRAVEL, sdy, mod yell brn (10YR 5/4); sd vf-vc, gravel up to 1" diam. A-SR, com caliche cement		GW							
4-8	sand, vf-vc, A-SA		SW							
7-8	hard caliche									
8-28	SAND, gravelly, gry oran (10YR 7/4) to mod yell brn (10YR 5/4). vf-vc, A-SA, gravel to 1" diam. Com. caliche cement		SP							
24-28	lg cobbles w/ com caliche, hard		GP							
28-32	SAND, w/ minor caliche and granules vf-vc		SW							
32-50	GRAVEL, hard, cemented, fractured. Com caliche cement. Minor sd interbeds and in matrix. Gry oran and dusky yell brn		GW							

EXPLANATION	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b> CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT DEBRIS FILL HIGHLY ORGANIC (PEAT) SANDY CLAY CLAYEY SAND	DATE DRILLED <b>10-10-99</b>	PAGE <b>1 of 7</b>	
	Water Table (Time of Boring)		DRILLING METHOD <b>ARCH</b>		
	PID NO. TYPE Identifies Sample by Number Sample Collection Method	SPLIT-BARREL	AUGER	ROCK CORE	DRILLED BY <b>BEYLIK</b>
	THIN-WALLED TUBE	CONTINUOUS SAMPLER	NO RECOVERY	LOGGED BY <b>Ed Krish</b>	EXISTING GRADE ELEVATION (FT AMSL)
DEPTH: Depth Top and Bottom of Sample REC.: Actual Length of Recovered Sample in Feet	LOCATION OR GRID COORDINATES				



SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY <b>KMC LLC</b>		LOCATION <b>HENDERSON</b>		BORING NUMBER <b>TR-12</b>				
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	0-5 GRAVEL w/silty sd in matrix. Com caliche coatings. Sized up to 2", volcanics		GM							
10	5-10 SAND, silty w/mod cobble-size volc gravel, Com caliche coatings. Sd vf-vc, A-SR		SW							
15	10-19 Gravel, boulders, w/com. caliche coatings. Mod vf-vc silty sand matrix. dk yell brn (10YR 2/2) and gry oran (10YR 7/4)		GW							
21	19-21 SAND, silty w/mod pea gravel, volc.		SW							
27	21-27 Gravel, boulders w/mod silty sd matrix. dk yell brn + gry oran. Sd vf-vc. Mod cemented. Com caliche coatings		GW							
30	27-36 GRAVEL, up to boulder size w/minor vf-vc sd matrix. HARD well cemented w/caliche		GP							
38	36-38 SAND, HARD, well cemented (caliche), vf-vc		SP							
39	38-39 SAND + GRAVEL, as above, uncemented		GW SP							

<b>EXPLANATION</b>		Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>	DATE DRILLED	PAGE		
		Water Table (Time of Boring)			10-16-99	1 of 8	
		Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method			DRILLING METHOD	<b>ARCH</b>	
		SPLIT-BARREL			DRILLED BY	<b>Beylik</b>	
	AUGER		LOGGED BY	<b>Ed Krish</b>			
	ROCK CORE		EXISTING GRADE ELEVATION (FT AMSL)				
	THIN-WALLED TUBE		LOCATION OR GRID COORDINATES				
	CONTINUOUS SAMPLER						
	NO RECOVERY						
DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet							

SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY Kmc LLC		LOCATION HENDERSON		BORING NUMBER TR-5				
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	SANDY GRAVEL w/ SILT; SLI. MOIST; GRAYISH-ORANGE PINK SYR 7/2		GW							
10	SAND (VF-MED.) WITH SILT AND GRAVEL; SLI. MOIST; SYR 7/2		SW							
15	SANDY GRAVEL, SLI. MOIST; SOME SILT; GRAYISH-ORANGE PINK SYR 7/2		GW							
20	SAND; VF-F GRAVELS; MED-COURSE SANDS REL. TO COMMON; SLI.-MED. MOIST; LT. BROWN SYR 6/4		SW							
25	GRAVELLY SAND; VF-COURSE; MED. MOIST; LT. BROWN; SYR 6/4		SW							
37	37-62 SILT w/ thin silty zones, med yell brn (10YR5/4) calcareous.		ML							Gal MC fg

EXPLANATION	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>		DATE DRILLED 9/16-9/22/99	PAGE 1 of 7
	PID NO. TYPE			CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT	DEBRIS FILL HIGHLY ORGANIC (PEAT) SANDY CLAY CLAYEY SAND
	SPLIT-BARREL	AUGER	ROCK CORE	DRILLED BY BEYLICK	LOGGED BY T. REED
	THIN-WALLED TUBE	CONTINUOUS SAMPLER	NO RECOVERY	EXISTING GRADE ELEVATION (FT AMSL)	
DEPTH	Depth Top and Bottom of Sample		LOCATION OR GRID COORDINATES		
REC.	Actual Length of Recovered Sample in Feet				

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SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division	KM SUBSIDIARY <b>KMCC</b>	LOCATION <b>HENDERSON</b>	BORING NUMBER <b>TR 6</b>
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DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 100%; border-left: 1px dashed black; border-right: 1px dashed black; height: 100%;"></div> <div style="margin-top: 10px;"> <p style="font-size: 1.2em; margin: 0;">TD 30'</p> <p style="margin: 0;">15' North of TR 5</p> <p style="margin: 0;">see TR 5 lith log</p> <p style="margin: 0;">for lithology</p> </div> </div>										

<b>EXPLANATION</b>	<input checked="" type="checkbox"/>	Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>		DATE DRILLED <b>9-24-99</b>	PAGE <b>1 of 1</b>
	<input checked="" type="checkbox"/>	Water Table (Time of Boring)	CLAY	DEBRIS FILL	DRILLING METHOD <b>ARCH</b>	
	<input type="checkbox"/>	PID	SILT	HIGHLY ORGANIC (PEAT)		
	<input type="checkbox"/>	Photoionization Detection (ppm)	SAND	SANDY CLAY	DRILLED BY <b>BEYLIK</b>	
	<input type="checkbox"/>	Identifies Sample by Number	GRAVEL	CLAYEY SAND		
<input type="checkbox"/>	Sample Collection Method	SILTY CLAY		LOGGED BY <b>E. KRISH</b>		
	SPLIT-BARREL	CLAYEY SILT				EXISTING GRADE ELEVATION (FT AMSL)
	THIN-WALLED TUBE			LOCATION OR GRID COORDINATES		
	AUGER					
	ROCK CORE					
	CONTINUOUS SAMPLER					
	NO RECOVERY					
<b>DEPTH</b>	Depth Top and Bottom of Sample					
<b>REC.</b>	Actual Length of Recovered Sample in Feet					

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SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY <b>KMCC</b>		LOCATION HENDERSON			BORING NUMBER TR7			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	0-12 GRAVEL, sdy, gry oran (10YR 7/4) and mod yell brn (10YR 5/4). 60-70% gravel up to 1" diam in sd (f-vc) matrix. Mod. calcite cement. Mod calcification		GW							
15	12-20 SAND, gravelly, as above w/ 30-40% 1" diam volc gravel		SW							
26	20-26 SAND, silty gry oran (10YR 7/4) vf-vc w/ 20% silt in matrix		SM							
35	26-43 SAND, gry orange (10YR 7/4) vf-m w/ minor vc, A-SA, calcareous w/ sp. sd-size caliche nodules		SW							damp @ 28'

**EXPLANATION**

- Water Table (24 Hour)
- Water Table (Time of Boring)
- PID Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method
- SPLIT-BARREL
- AUGER
- ROCK CORE
- THIN-WALLED TUBE
- CONTINUOUS SAMPLER
- NO RECOVERY

DEPTH Depth Top and Bottom of Sample  
 REC. Actual Length of Recovered Sample in Feet

**GRAPHIC LOG LEGEND**


DATE DRILLED: 9/25-9/26/99  
 PAGE: 1 of 8  
 DRILLING METHOD: ARCH  
 DRILLED BY: BEYLIK  
 LOGGED BY: E KRISH  
 EXISTING GRADE ELEVATION (FT AMSL):  
 LOCATION OR GRID COORDINATES:

✓ 1/10

SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept. - S&EA Division	KM SUBSIDIARY <b>KMCC</b>	LOCATION <b>HENDERSON</b>	BORING NUMBER <b>TR8</b>
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DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6'	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">12</div> <div style="margin-bottom: 10px;">14</div> <div style="margin-bottom: 10px;">16</div> <div style="margin-bottom: 10px;">18</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">22</div> <div style="margin-bottom: 10px;">24</div> <div style="margin-bottom: 10px;">26</div> <div style="margin-bottom: 10px;">28</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">32</div> <div style="margin-bottom: 10px;">34</div> <div style="margin-bottom: 10px;">36</div> <div style="margin-bottom: 10px;">38</div> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">42</div> <div style="margin-bottom: 10px;">44</div> <div style="margin-bottom: 10px;">46</div> <div style="margin-bottom: 10px;">48</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">52</div> <div style="margin-bottom: 10px;">54</div> <div style="margin-bottom: 10px;">56</div> <div style="margin-bottom: 10px;">58</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">62</div> <div style="margin-bottom: 10px;">64</div> <div style="margin-bottom: 10px;">66</div> <div style="margin-bottom: 10px;">68</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">72</div> <div style="margin-bottom: 10px;">74</div> <div style="margin-bottom: 10px;">76</div> <div style="margin-bottom: 10px;">78</div> <div style="margin-bottom: 10px;">80</div> <div style="margin-bottom: 10px;">82</div> <div style="margin-bottom: 10px;">84</div> <div style="margin-bottom: 10px;">86</div> <div style="margin-bottom: 10px;">88</div> <div style="margin-bottom: 10px;">90</div> <div style="margin-bottom: 10px;">92</div> <div style="margin-bottom: 10px;">94</div> </div>	<p>HOLE LOCATED 12 ft South of TR7 - see TR7 for Lithology TD 98'</p> <p>NOTE: in TR8 first MC gravel started @ 62' and ended at 93 ft.</p>									

<b>EXPLANATION</b>		Water Table (24 Hour)	<b>GRAPHIC LOG LEGEND</b>	DATE DRILLED	PAGE	
		Water Table (Time of Boring)		<b>9/30/99</b>	<b>1 of 1</b>	
		PID Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method		CLAY		DEBRIS FILL
		SPLIT-BARREL		SILT		HIGHLY ORGANIC (PEAT)
		THIN-WALLED TUBE		SAND		SANDY CLAY
	AUGER		GRAVEL		CLAYEY SAND	
	CONTINUOUS SAMPLER		SILTY CLAY			
	ROCK CORE		CLAYEY SILT			
	NO RECOVERY					
<b>DEPTH REC.</b>	Depth Top and Bottom of Sample Actual Length of Recovered Sample in Feet			DRILLING METHOD <b>ARCH</b> DRILLED BY <b>BEYLIK</b> LOGGED BY <b>E. KRISH</b> EXISTING GRADE ELEVATION (FT AMSL)  LOCATION OR GRID COORDINATES		