GeoStrategies Inc.

SAMPLING DATA SUMMARY

Chevron Service Station #7127
South Grantline Road
Tracy, California

Report No. 7251-1

September 14, 1989

GeoStrategies Inc.
2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545
(415) 352-4800

September 14, 1989

Gettler-Ryan Inc.
1992 National Avenue
Hayward, California 94545

Attn: Mr. Jerry Mitchell

Re: SAMPLING DATA SUMMARY
Chevron Service Station #7127
South Grantline Road
Tracy, California

Gentlemen:

This report presents the results of a file and document review conducted in order to summarize the sampling data that has been collected at the above referenced location (Plate 1).

BACKGROUND

At the request of Chevron U.S.A. Inc., EA Engineering, Science, and Technology, Inc. (EA) conducted a Soil Vapor Contaminant Assessment at the site on October 27, 1987. This survey measured concentrations of hydrocarbon constituents in soil vapor and reported them as Benzene, Toluene, Total Detected Hydrocarbons and peaks which registered prior to Benzene. The results of this investigation were presented in their report dated November 13, 1987.

On December 2, 1987, Kleinfelder Inc. was authorized by Chevron, USA to further evaluate site conditions. Kleinfelder originally proposed six soil borings to be drilled and completed as monitoring wells. This original scope of work was modified due to adverse drilling conditions encountered at the site. As a result, no monitoring wells were installed due to auger refusal prior to encountering groundwater. Seven borings were completed and soil samples were collected and analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPH-gas) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX). A water sample was also collected from a tap fed by a domestic well which is located on-site. These results were presented in Kleinfelder's report dated January 6, 1988.

Subsequent water samples were collected by Kleinfelder from the on-site domestic well at various sampling points and from the well itself during 1988. The results of these sampling events were reported in separate addendums dated January 19, 1988, February 8, 1988, February 12, 1988, March 31, 1988, April 18, 1988, April 28, 1988, and February 8, 1989. In addition, a summary report was issued on March 8, 1988, which summarized the sampling data obtained thus far.

In May, 1989, Gettler-Ryan Inc. (G-R) installed a carbon adsorbtion treatment system on the domestic well at the site due to concentrations of Benzene detected in water samples. Water samples have been collected weekly from the system effluent and analyzed for TPH and BTEX.

RESULTS OF PREVIOUS INVESTIGATIONS

EA Engineering, Science, and Technology, Inc.

Soil gas samples were taken from 13 on-site and 2 off-site locations at depths ranging from 3 to 12 feet below existing grade. Sampling locations are shown on Plate 2. Concentrations of hydrocarbon constituents in soil vapor ranged from less than (<) 1 part per million (ppm) to 3,200 ppm Benzene, <1 to 5,200 ppm Toluene and <1 to 28,500 ppm Total Detected Hydrocarbons. A summary of this data as reported by EA, is presented in Table 1. Based on the results of this survey, EA concluded that there could possibly be floating product in the area of the tank field and the pump island and recommended installing five groundwater monitoring wells on-site.

Kleinfelder Inc.

Analytical results from the soil samples collected during drilling detected TPH in concentrations ranging from not detected (ND) to 2,300 ppm and Benzene in concentrations ranging from ND to 19 ppm. A summary of this data is presented in Table 2.

Lithologic information obtained from boring logs indicate that the site is underlain by up to 20 feet of engineered fill. The fill is typically silty clays with gravel and gravelly silty sands. Bedrock, composed mainly of sandstones, shales and conglomerates underlies the fill. Kleinfelder was unable to install monitoring wells at the site due to auger refusal upon encountering bedrock (see attached boring logs for details). As a result, water samples were collected from a domestic well located on-site. A water sample collected December 21, 1987, from tap T-1 located near the domestic well contained 2 parts per billion (ppb) Benzene and was ND for all other constituents analyzed. A confirmation sample which detected 4 ppb Benzene was collected on January 5, 1988, from tap T-2 located adjacent to the well-head. The location of these sampling points is shown on Plate 4.

Positive Benzene results from the first samples taken prompted a reconnaissance effort regarding the domestic well. An interview between Kleinfelder and an adjacent property owner (Mr. Joseph Jess) indicated that the only other domestic well in the area was located approximately 300 yards upgradient of the site. This well was severely damaged during the 1980 earthquake which occurred along the Greenville Fault in Livermore. Mr. Jess stated that he acquired access to the well located on Chevron property via a prior station manager or owner approval. The only information regarding construction details of the on-site domestic well consisted of a verbal estimate given by Henning Brothers Drilling Company (Henning) of Modesto, California. Henning did not have any records of the well but had installed several wells in the area and believed the total depth to be about 90 feet with the bottom 20 feet screened. There is no permit on file with the Alameda County Flood Control and Water Conservation District, Zone 7.

Results from previous sampling rounds indicated varying concentrations of Benzene. Therefore, additional samples were collected between January 1988 and April 1989, at various locations along the well piping and at the well-head. Sampling locations T-1, T-2, T-3 and Well are shown on Plate 4. A schematic diagram of the well-head and sampling port is shown on Plate 5.

Split samples collected from T-2 on January 8, 1988, reported Benzene concentrations of 1 and 1.1 ppb. February sampling of T-1 and the well-head drain cock (Well) were reported as ND. Subsequent sampling of the Well, T-2 and T-3 (T-3 is a spigot located at the nearest house on the water line servicing the area west-southwest of the site) in March, 1989 detected Benzene concentrations of 3.7, 2.7, and 1.4 ppb, respectively. However, split samples obtained at the same time and sent to a different laboratory for analysis all reported ND. April 1989 sampling reported Benzene in concentrations ranging from 2 ppb at T-3 to 7 ppb at the Well. Toluene and Xylenes were also detected. All groundwater analytical data collected by Kleinfelder has been summarized and is presented on Table 3.

CARBON TREATMENT SYSTEM INSTALLATION

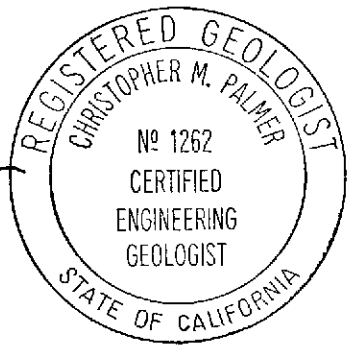
G-R began weekly sampling in May 1989, after installation of the carbon treatment system. Water samples were collected from sampling points A, B and C as shown on Plate 6, and from the Well (called point D by G-R). All samples were analyzed for TPH as gasoline and BTEX. These results are summarized on Table 4 and copies of the G-R sampling reports are attached.

If you have any questions, please call.

GeoStrategies Inc. by,

Melissa L. Wann
Project Geologist

Christopher M. Palmer
Senior Geologist
C.E.G. 1262 R.E.A. 285



MLW/CMP/kj

Attachments:
Plate 1. Site Plan
Plate 2. Soil Vapor Sampling Points Location Map
Plate 3. Boring Location Map
Plate 4. Well Sampling Port Location Map
Plate 5. Wellhead Detail
Plate 6. Treatment System Flow Diagram
Exploratory Boring Logs
Gettler-Ryan Sampling Reports

TABLE 1

SUMMARY OF SOIL VAPOR MONITORING DATA
CHEVRON SERVICE STATION #7127
TRACY, CALIFORNIA

SAMPLE LOCATION	SAMPLE DEPTH	PRIOR TO BENZENE(1) (ppm)	BENZENE (ppm)	TOLUENE (ppm)	DETECTED HYDROCARBONS (ppm)
V1	3	<5	<1	<1	<5
V1/B	5	3700	650	3200	7500
V1/C	8	18000	600	2800	20000
V2	5	130	<5	30	160
V3	3	10	5	10	30
V3/B	5	<5	1	10	15
V4	3	20000	3200	5200	28500
V4/B	5	120	130	1900	2000
V5	5	1	<1	<5	<5
V5/B	7	620	40	<1	750
V6	5	1150	540	160	7300
V7	5	1300	<5	<5	1400
V8	3	<1	<1	<1	<1
V8/B	8	<1	<1	<1	<1
V9	8	1	<1	<10	10
V10	8	<1	<1	<1	<1
V11	5	<1	<1	<1	<1
V12	8	<1	<1	<1	<1
V13	12	20	<1	<1	25
V14	8	<1	<1	<1	<1
V15	12	<1	<1	<1	<1
BLANK	NA	<0.1	<0.1	<0.1	NA
BLANK	NA	<0.1	<0.1	<0.1	NA
Detection Limit		0.5	0.5	0.5	1

NA = Not Applicable
ppm = parts per million

(1) Quantification based on the volt-second:ppm response ratio for benzene.
Source: EA Engineering, Science, and Technology, Inc. report dated 11/13/87

(Note: See Plate 2 for sampling point locations.)

TABLE 2

SUMMARY OF SOILS ANALYTICAL DATA
CHEVRON SERVICE STATION #7127
TRACY, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH*	BENZENE (ppm)	TOLUENE (ppm)	TOTAL XYLENES (ppm)	ETHYLBENZENE (ppm)	TPH (ppm)
B1-10	10	ND	ND	ND	ND	ND
B2-20	20	0.001	ND	4	0.003	0.8
B3-14	14	1.2	0.680	2	0.8	76
B4-15	15	19	85	140	28	2300
B5-5	5	0.076	0.007	0.030	0.002	0.5
B6-5	5	ND	ND	ND	ND	ND
B7-5	5	0.022	0.003	0.024	0.046	0.7
Detection Limit		0.5	0.5	0.5	0.5	1

TPH = Total Petroleum Hydrocarbons
* Feet below ground surface
ppm = parts per million
Benzene, Toluene, Total Xylenes and Ethylbenzene concentrations converted from ppb to ppm.

SOURCE: Subsurface Environmental Investigation, January 6, 1988; Kleinfelder Inc.

(Note: See Plate 3 for boring locations.)

TABLE 3

SUMMARY OF GROUND-WATER ANALYTICAL DATA
CHEVRON SERVICE STATION #7127
TRACY, CALIFORNIA

SAMPLE DATE	SAMPLING POINT	BENZENE (ppb)	TOLUENE (ppb)	TOTAL XYLENES (ppb)	ETHYLBENZENE (ppb)	TPH (ppm)
12/21/87	T-1	2	ND	ND	ND	NT
01/05/88	T-2	4	ND	ND	ND	NT
01/08/88	T-2	1	ND	ND	ND	NT
01/08/88	T-2	1.1	ND	ND	ND	NT
01/21/88	Well	ND	ND	ND	ND	NT
02/19/88	T-1	ND	ND	ND	ND	ND
02/19/88	T-1	ND	ND	ND	ND	ND
02/19/88	Well	ND	ND	ND	ND	ND
02/19/88	TB	ND	ND	ND	ND	ND
03/14/89	Well #	3.7	0.8	NT	NT	ND
03/14/89	Well *	ND	ND	ND	NT	ND
03/14/89	T-2 #	2.7	0.4	NT	NT	ND
03/14/89	T-2 *	ND	ND	NT	NT	ND
03/14/89	T-3 #	1.4	0.4	NT	NT	ND
03/14/89	T-3 *	ND	ND	NT	NT	ND
03/14/89	TB *	ND	ND	NT	NT	ND
04/05/89	Well *	7	3	ND	NT	ND
04/05/89	Well #	6.4	2.3	1	NT	ND
04/05/89	T-2 *	6	3	3	NT	ND
04/05/89	T-2 #	5	1.5	0.7	NT	ND
04/05/89	T-3 *	2	ND	ND	NT	ND
04/05/89	T-3 #	2.3	0.6	ND	NT	ND
04/05/89	TB #	ND	ND	0.6	NT	ND
Detection Limit		0.5	0.5	0.5	0.5	1

TB = Trip Blank
NT = not tested
ppm = parts per million
ppb = parts per billion
* Analyzed by Med-Tox Associates, Inc.
# Analyzed by Clayton Environmental Consultants, Inc.
Well = samples collected from domestic well-head.

(Note: See Plate 4 for sampling point locations.)

TABLE 4

SUMMARY OF GROUND-WATER ANALYTICAL DATA AFTER TREATMENT
CHEVRON SERVICE STATION #7127
TRACY, CALIFORNIA

SAMPLE DATE	SAMPLING POINT	BENZENE (ppb)	TOLUENE (ppb)	TOTAL XYLENES (ppb)	ETHYLBENZENE (ppb)	TPH (ppm)
08/05/89	A	ND	ND	ND	ND	ND
08/05/89	B	ND	ND	ND	ND	ND
08/05/89	C	ND	ND	ND	ND	ND
08/05/89	Well	ND	ND	ND	ND	ND
08/05/89	TB	ND	ND	ND	ND	ND
08/11/89	A	ND	ND	ND	ND	ND
08/11/89	B	ND	ND	ND	ND	ND
08/11/89	C	ND	ND	ND	ND	ND
08/11/89	Well	ND	ND	ND	ND	ND
08/11/89	TB	ND	ND	ND	ND	ND
08/18/89	A	ND	ND	ND	ND	ND
08/18/89	B	ND	ND	ND	ND	ND
08/18/89	C	ND	ND	ND	ND	ND
08/18/89	Well	ND	ND	ND	ND	ND
08/18/89	TB	ND	ND	ND	ND	ND
08/25/89	A	ND	ND	ND	ND	ND
08/25/89	B	ND	ND	ND	ND	ND
08/25/89	C	ND	ND	ND	ND	ND
08/25/89	Well	ND	ND	ND	ND	ND
08/25/89	TB	ND	ND	ND	ND	ND
08/30/89	A	ND	ND	ND	ND	ND
08/30/89	B	ND	ND	ND	ND	ND
08/30/89	C	ND	ND	ND	ND	ND
08/30/89	Well	ND	ND	ND	ND	ND
08/30/89	TB	ND	ND	ND	ND	ND
Detection Limit		0.5	1	3	1	50

TB = Trip Blank
ppm = parts per million ppb = parts per billion

Source: Gettler-Ryan Sampling Reports 5/89 through 8/89
Note: Well is also referred to as sample point D in G-R Sampling Reports.

(Note: See Plates 5 and 6 for sampling location.)

TABLE 4

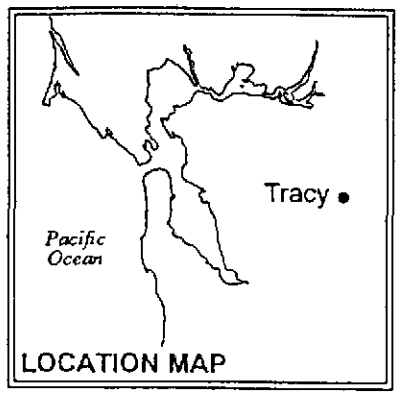
SUMMARY OF GROUND-WATER ANALYTICAL DATA AFTER TREATMENT
CHEVRON SERVICE STATION #7127
TRACY, CALIFORNIA

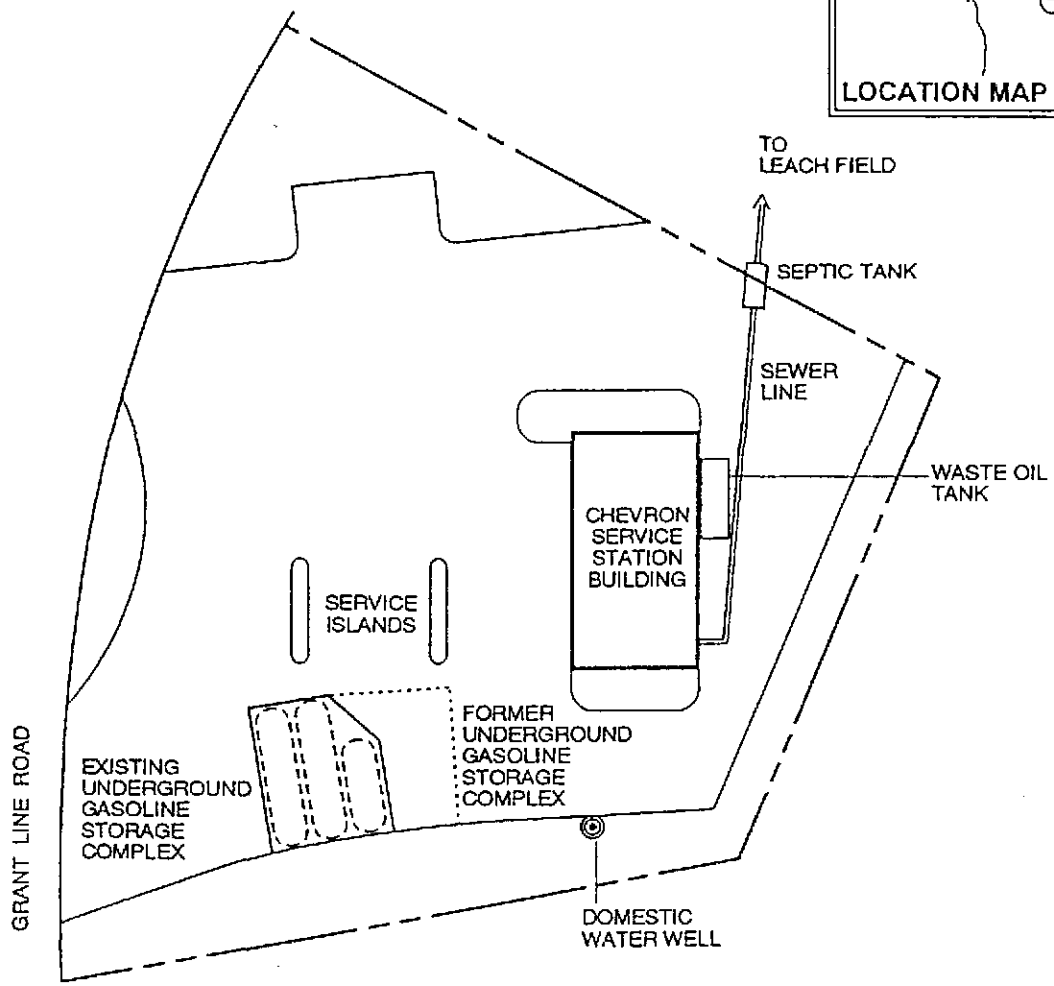
SAMPLE DATE	SAMPLING POINT	BENZENE (ppb)	TOLUENE (ppb)	TOTAL XYLENES (ppb)	ETHYLBENZENE (ppb)	TPH (ppm)
08/05/89	A	ND	ND	ND	ND	ND
08/05/89	B	ND	ND	ND	ND	ND
08/05/89	C	ND	ND	ND	ND	ND
08/05/89	Well	ND	ND	ND	ND	ND
08/05/89	TB	ND	ND	ND	ND	ND
08/11/89	A	ND	ND	ND	ND	ND
08/11/89	B	ND	ND	ND	ND	ND
08/11/89	C	ND	ND	ND	ND	ND
08/11/89	Well	ND	ND	ND	ND	ND
08/11/89	TB	ND	ND	ND	ND	ND
08/18/89	A	ND	ND	ND	ND	ND
08/18/89	B	ND	ND	ND	ND	ND
08/18/89	C	ND	ND	ND	ND	ND
08/18/89	Well	ND	ND	ND	ND	ND
08/18/89	TB	ND	ND	ND	ND	ND
08/25/89	A	ND	ND	ND	ND	ND
08/25/89	B	ND	ND	ND	ND	ND
08/25/89	C	ND	ND	ND	ND	ND
08/25/89	Well	ND	ND	ND	ND	ND
08/25/89	TB	ND	ND	ND	ND	ND
08/30/89	A	ND	ND	ND	ND	ND
08/30/89	B	ND	ND	ND	ND	ND
08/30/89	C	ND	ND	ND	ND	ND
08/30/89	Well	ND	ND	ND	ND	ND
08/30/89	TB	ND	ND	ND	ND	ND
Detection Limit		50.	0.5	1.	1.	3.

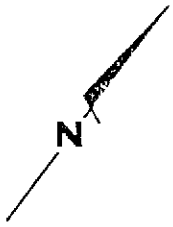
TB = Trip Blank
ppm = parts per million ppb = parts per billion

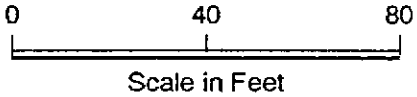
Source: Gettler-Ryan Sampling Reports 5/89 through 8/89
Note: Well is also referred to as sample point D in G-R Sampling Reports.

(Note: See Plates 5 and 6 for sampling location.)









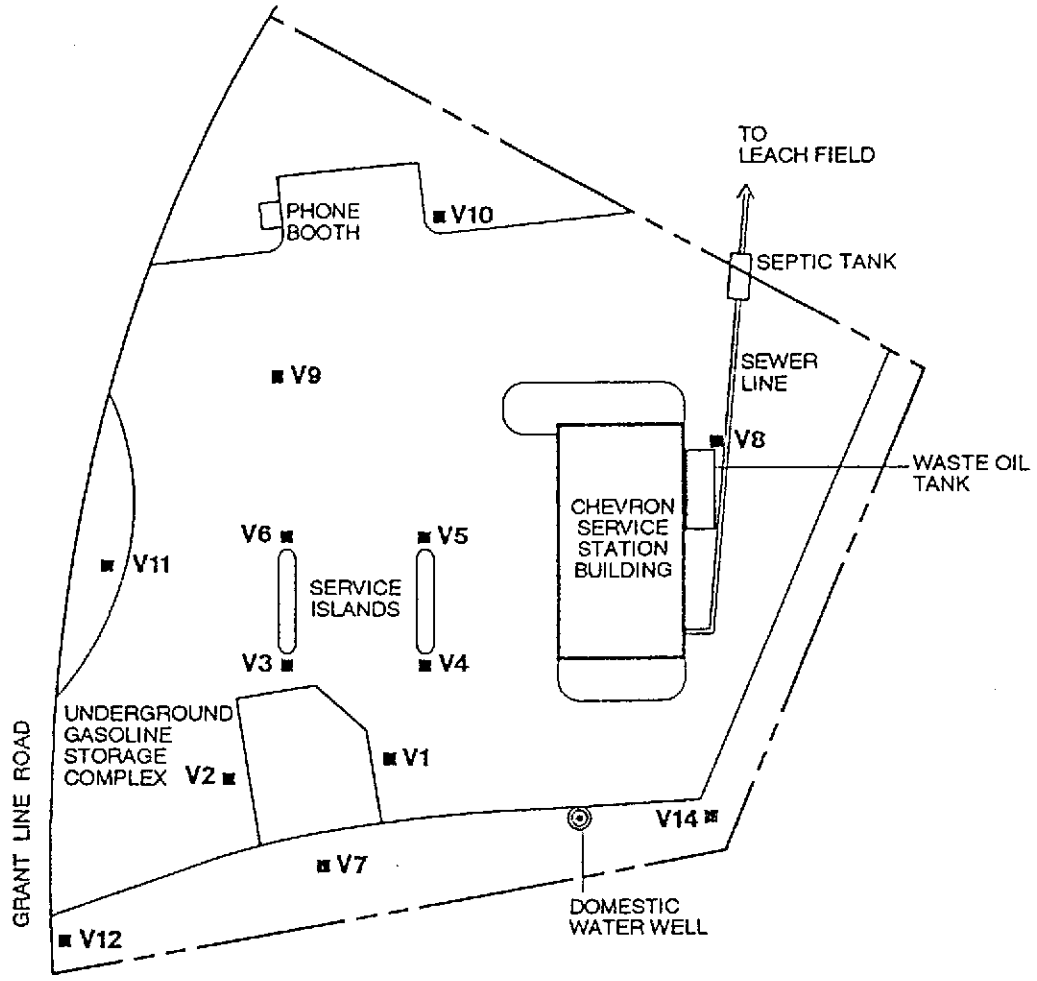
Base Map: Kleinfelder

GeoStrategies Inc.

Site Plan
Chevron USA Service Station #7127
Grant Line Road
Tracy, California

PLATE 1

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7251	RG/CEG 12/62	8/89		



EXPLANATION

V15 Soil vapor sampling point location

N

Base Map: Kleinfelder and
EA, Engineering and Science

0 40 80

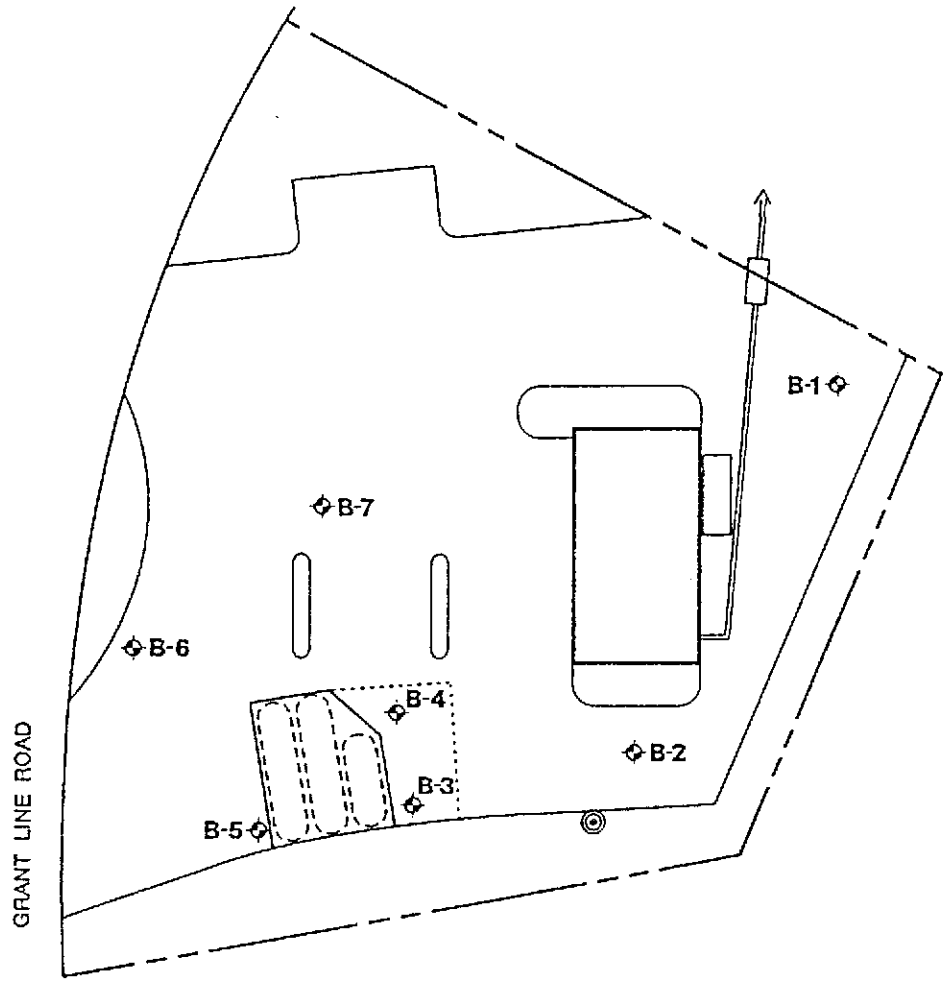
Scale in Feet

GeoStrategies Inc.

Soil Vapor Sampling Points Location Map
Chevron USA Service Station #7127
Grant Line Road
Tracy, California

PLATE
2

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7251	CWP CEG 12 6 2	8/89		



EXPLANATION

◈ B-1 Exploratory borehole location

N

Base Map: Kleinfelder

0 40 80

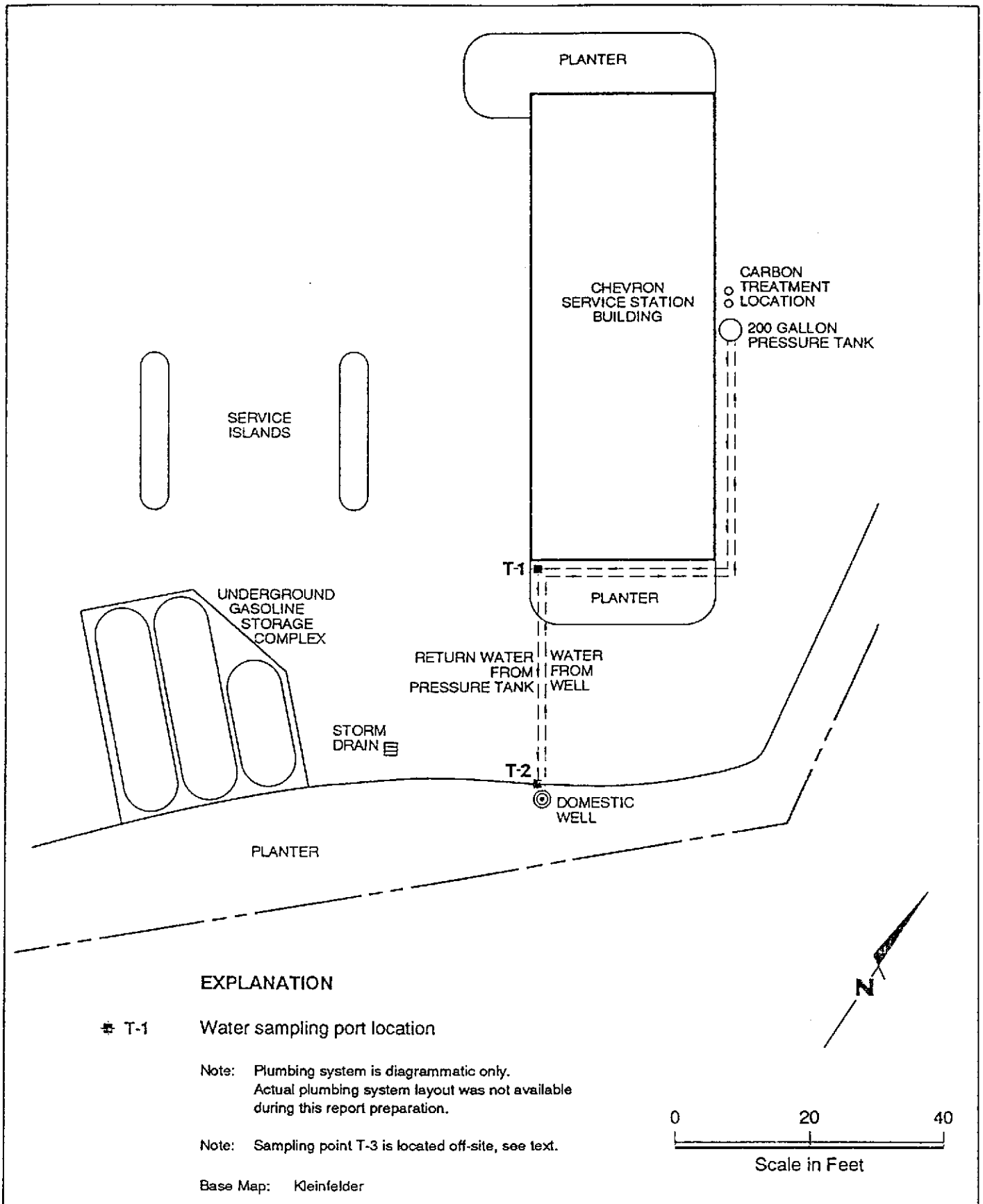
Scale in Feet

GeoStrategies Inc.

Boring Location Map
Chevron USA Service Station #7127
Grant Line Road
Tracy, California

PLATE 3

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7251	[illegible]	8/89		

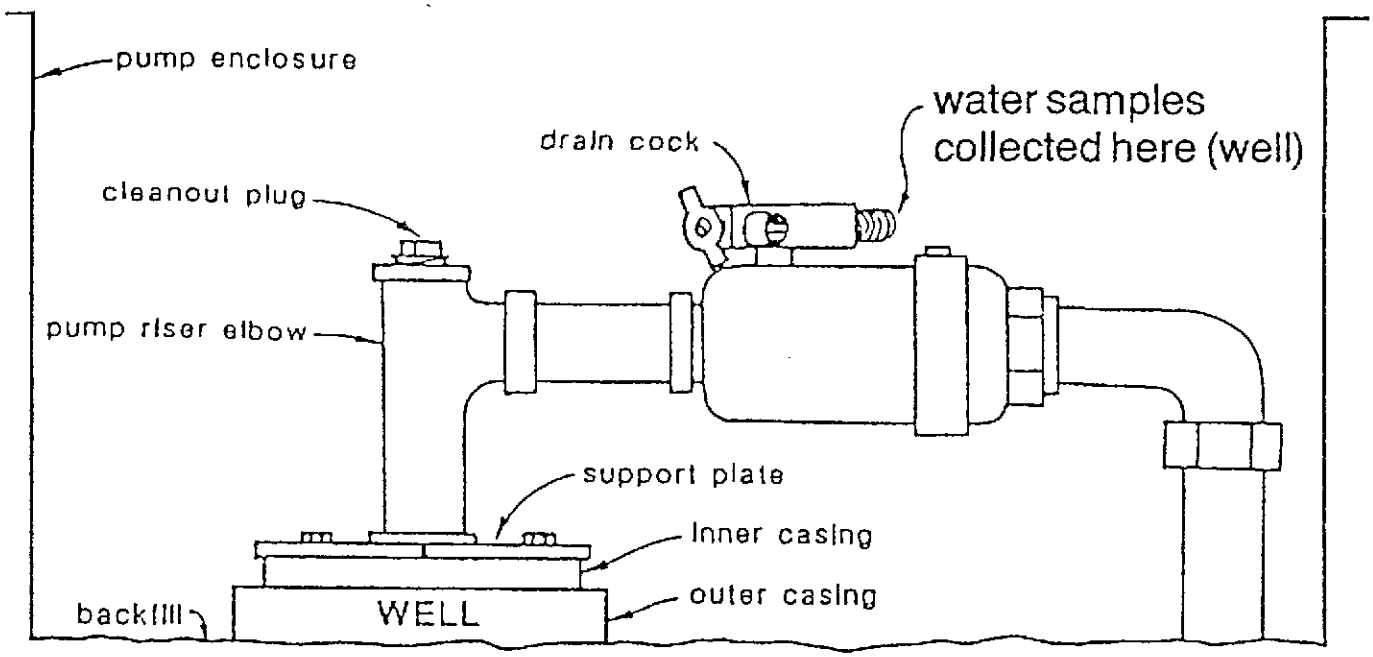


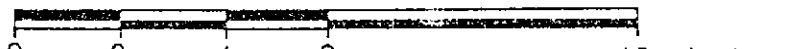
GeoStrategies Inc.

Well Sampling Port Location Map
Chevron USA Service Station #7127
Grant Line Road
Tracy, California

PLATE 4

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7251	[illegible]	8/89		





approximate scale

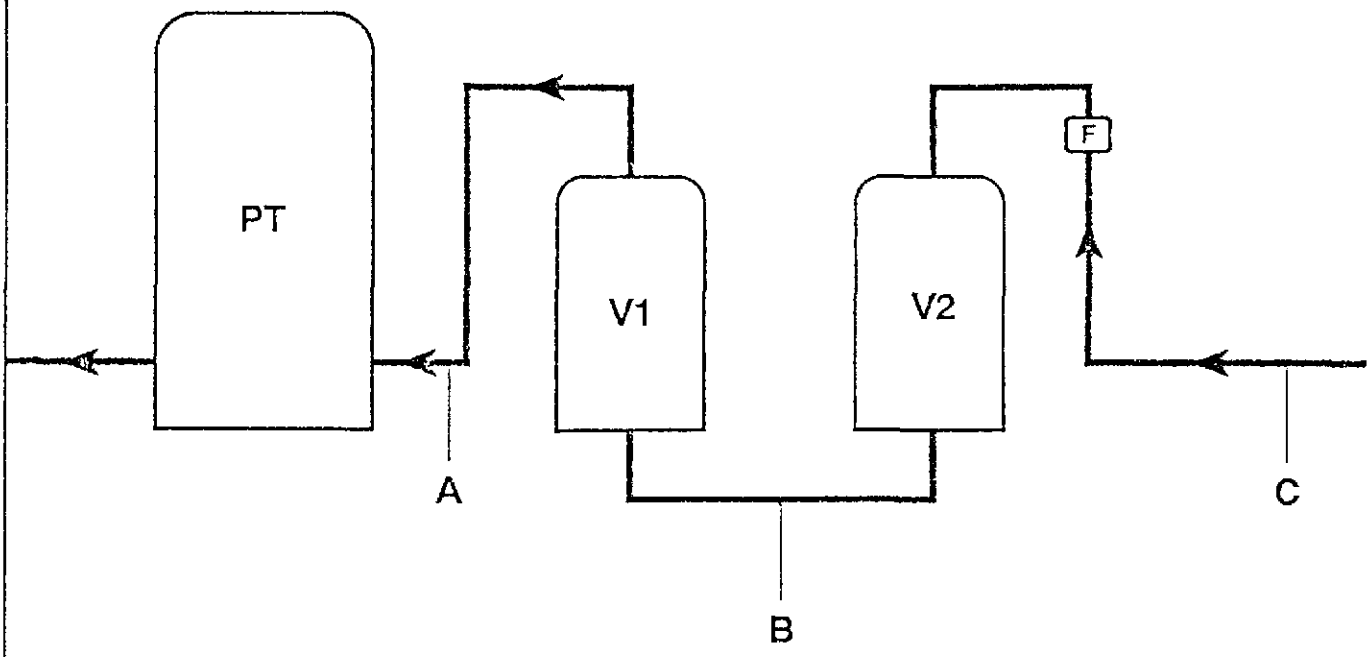
Detail by Kleinfelder

GeoStrategies Inc.

Wellhead Detail
Chevron USA Service Station #7127
Grant Line Road
Tracy, California

PLATE
5

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7251	CEG 1262	8/89		



V1 = CARBON UNIT #1 200 lb

V2 = CARBON UNIT #2 200 lb

PT = PRESSURE TANK (200 gallons)

F = FLOWMETER

A = EFFLUENT SAMPLE POINT

B = BETWEEN FILTER SAMPLE POINT

C = INFLUENT SAMPLE POINT

Detail by Gettler-Ryan Inc.

GSI GeoStrategies Inc.

Treatment System Flow Diagram
Chevron USA Service Station #7127
Grant Line Road
Tracy, California

PLATE 6

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7251		8/89		

GeoStrategies Inc.

EXPLORATORY BORING LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION	MAJOR DIVISIONS		LTR	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	G W	Well-graded gravels or gravel sand mixtures, little or no fines.	FINE GRAINED SOILS	SILTS AND CLAYS LL < 50	M L	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		G P	Poorly-graded gravels or gravel sand mixture, little or no fines.			C L	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
		G M	Silty gravels, gravel-sand-clay mixtures.			O L	Organic silts and organic silt-clays of low plasticity.
		G C	Clayey gravels, gravel-sand-clay mixtures.		SILTS AND CLAYS LL > 50	M H	Inorganic silts, micaceous or diatomaceous fine or silty soils, elastic silts.
	SAND AND SANDY SOILS	S W	Well-graded sands or gravelly sands, little or no fines.			C H	Inorganic clays of high plasticity, fat clays.
		S P	Poorly-graded sands or gravelly sands, little or no fines.			O H	Organic clays of medium to high plasticity.
		S M	Silty sands, sand-silt mixtures.	HIGHLY ORGANIC SOILS		P T	Peat and other highly organic soils.
		S C	Clayey sands, sand-clay mixtures.				

- Standard penetration split spoon sample
- Modified California (Porter) sample
- Shelby tube sample
- Water level observed in boring
- No recovery
- NFWE — No free water encountered
- NOSC — No odor, scent, or fluid cut
- Blank casing
- Screened Casing
- Cement grout
- Bentonite
- Sand pack or gravel pack

NOTES: Blow count represents the number of blows of a 140-pound hammer falling 30 inches per blow required to drive a sampler through the last 12 inches of an 18-inch penetration.

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only

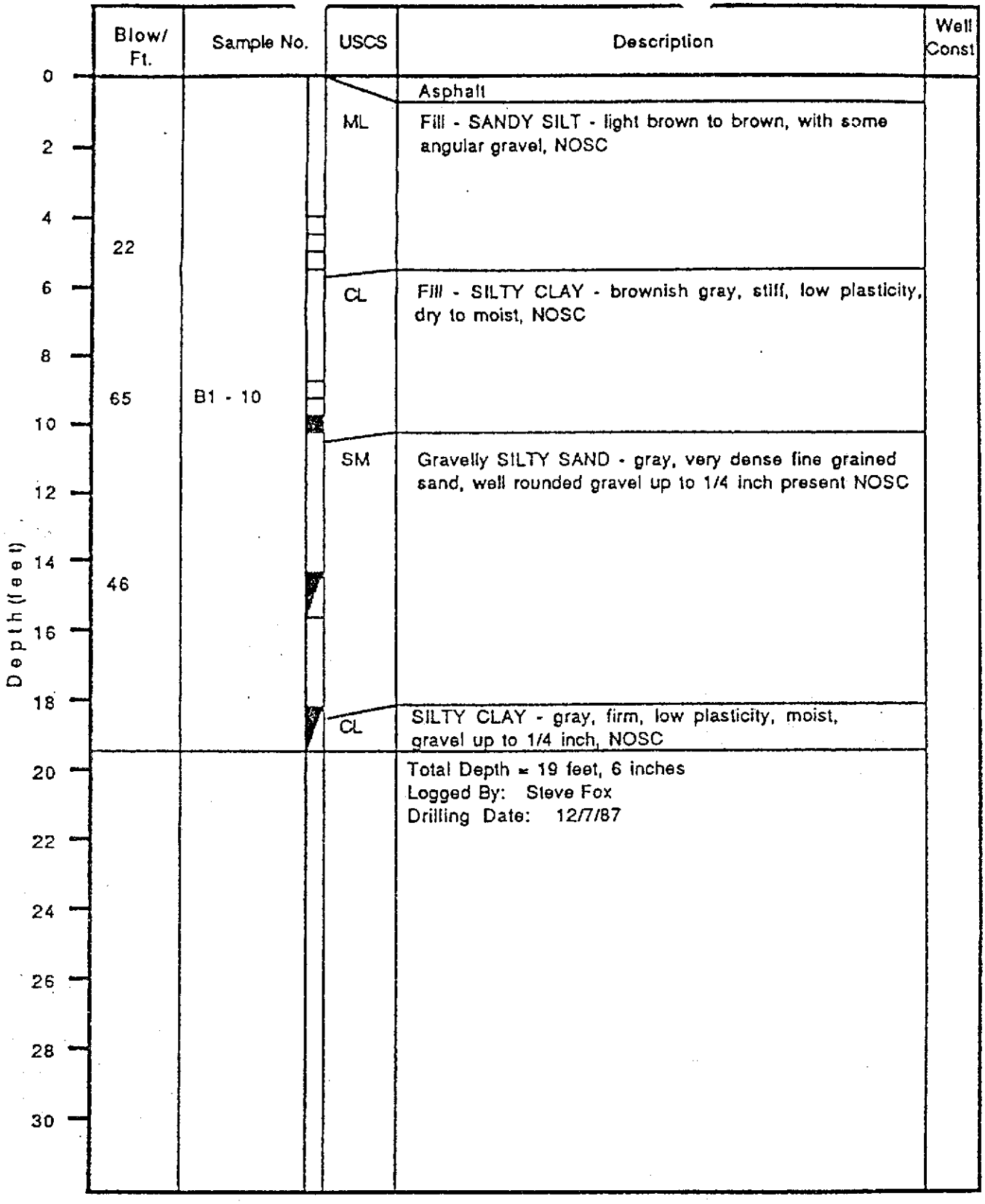
KLEINFELDER

PROJECT NO. 10-1782-01

CHEVRON USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG LEGEND

PLATE
A1



B - 1

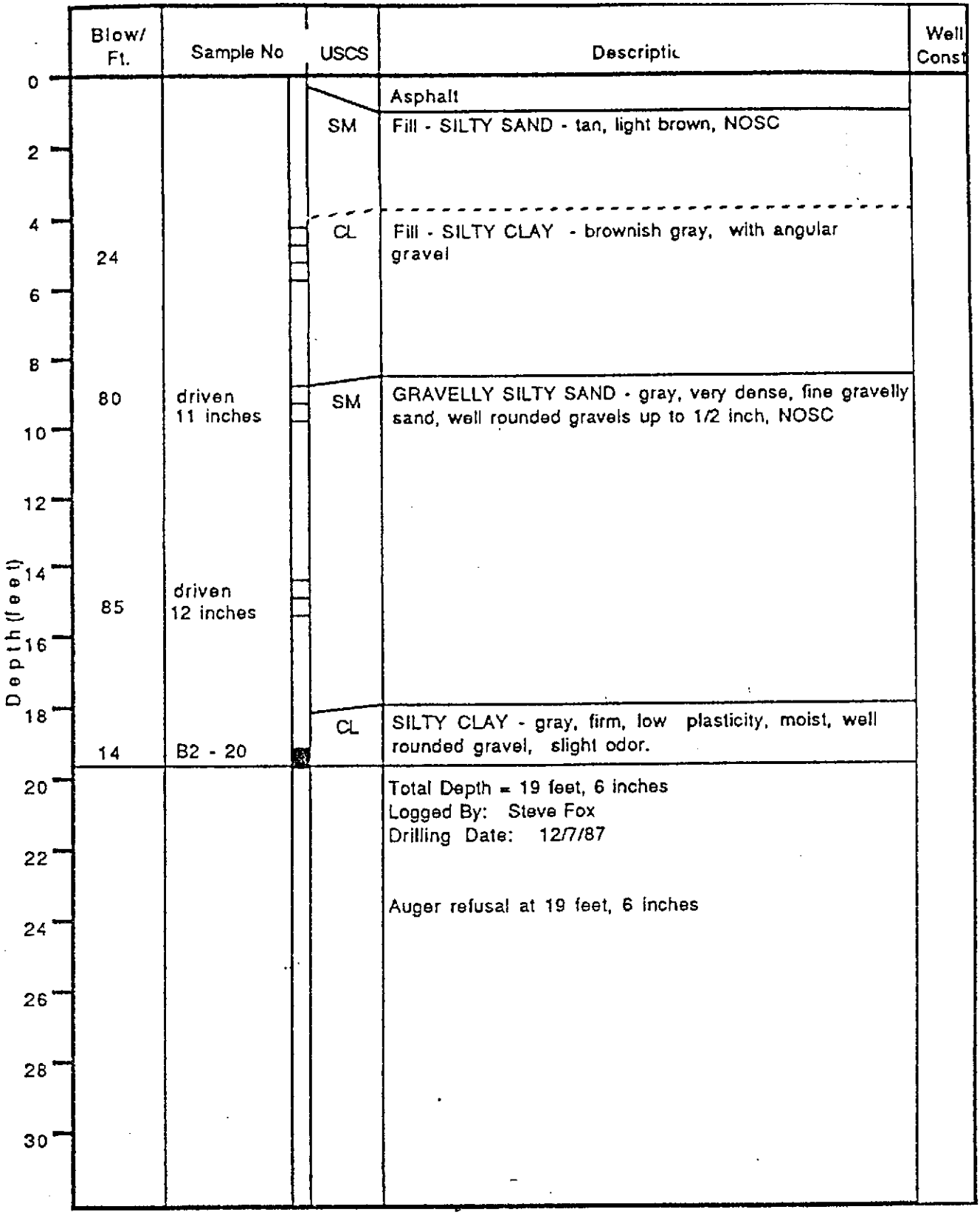
KLEINFELDER

PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-1

PLATE
A2



B - 2

KLEINFELDER

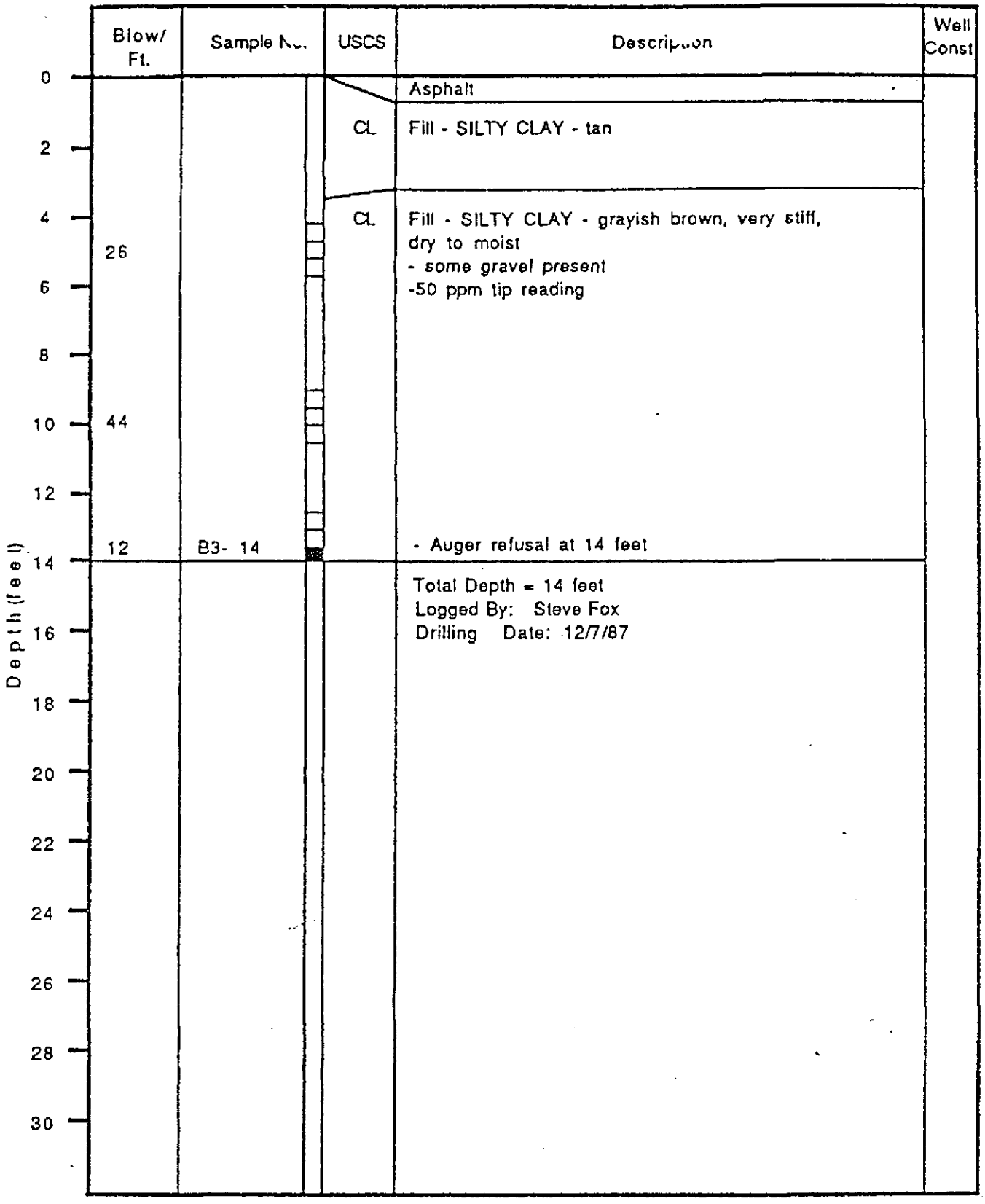
PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-2

PLATE

A3



B-3

KLEINFELDER

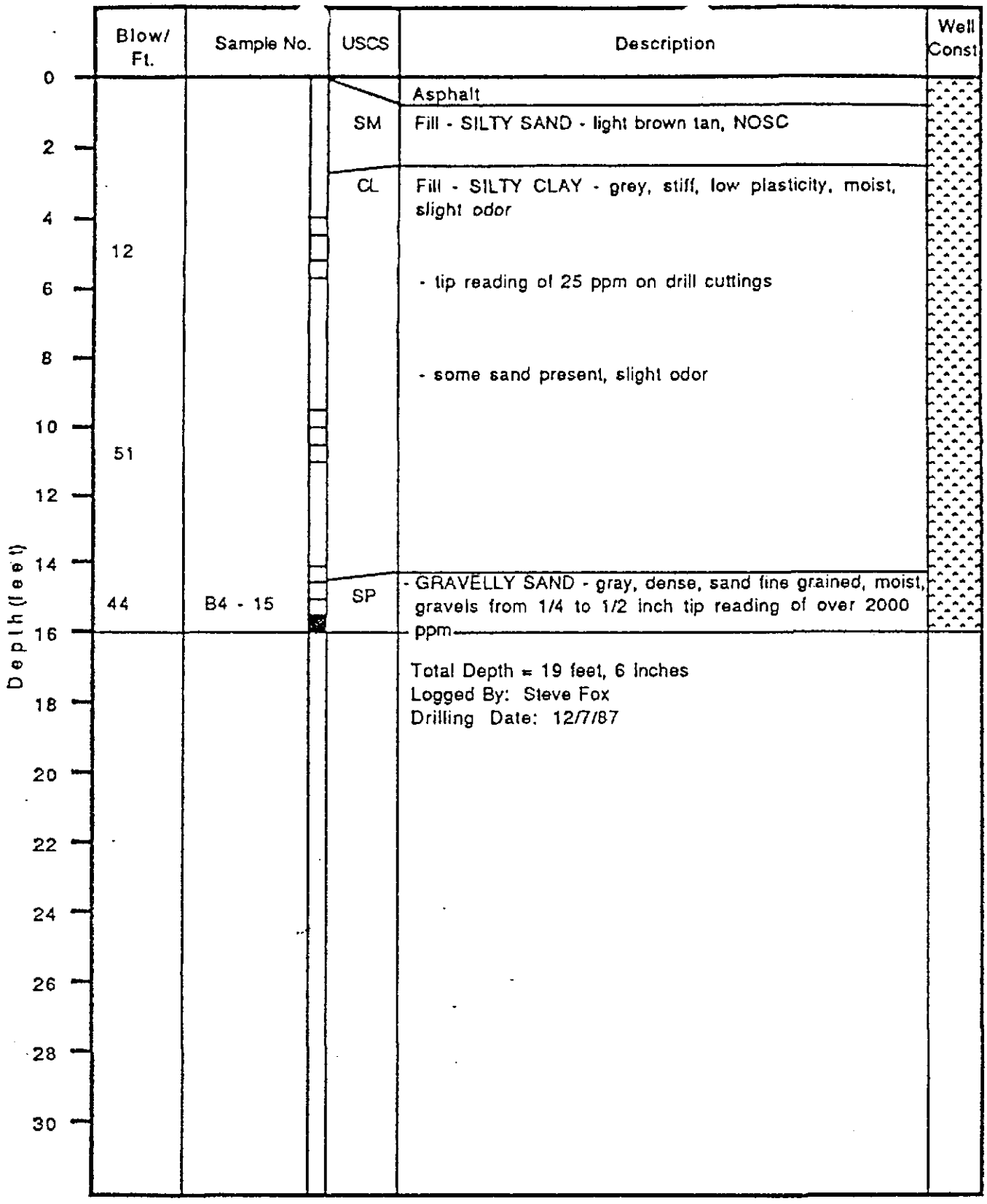
PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-3

PLATE

A4



B - 4

KLEINFELDER

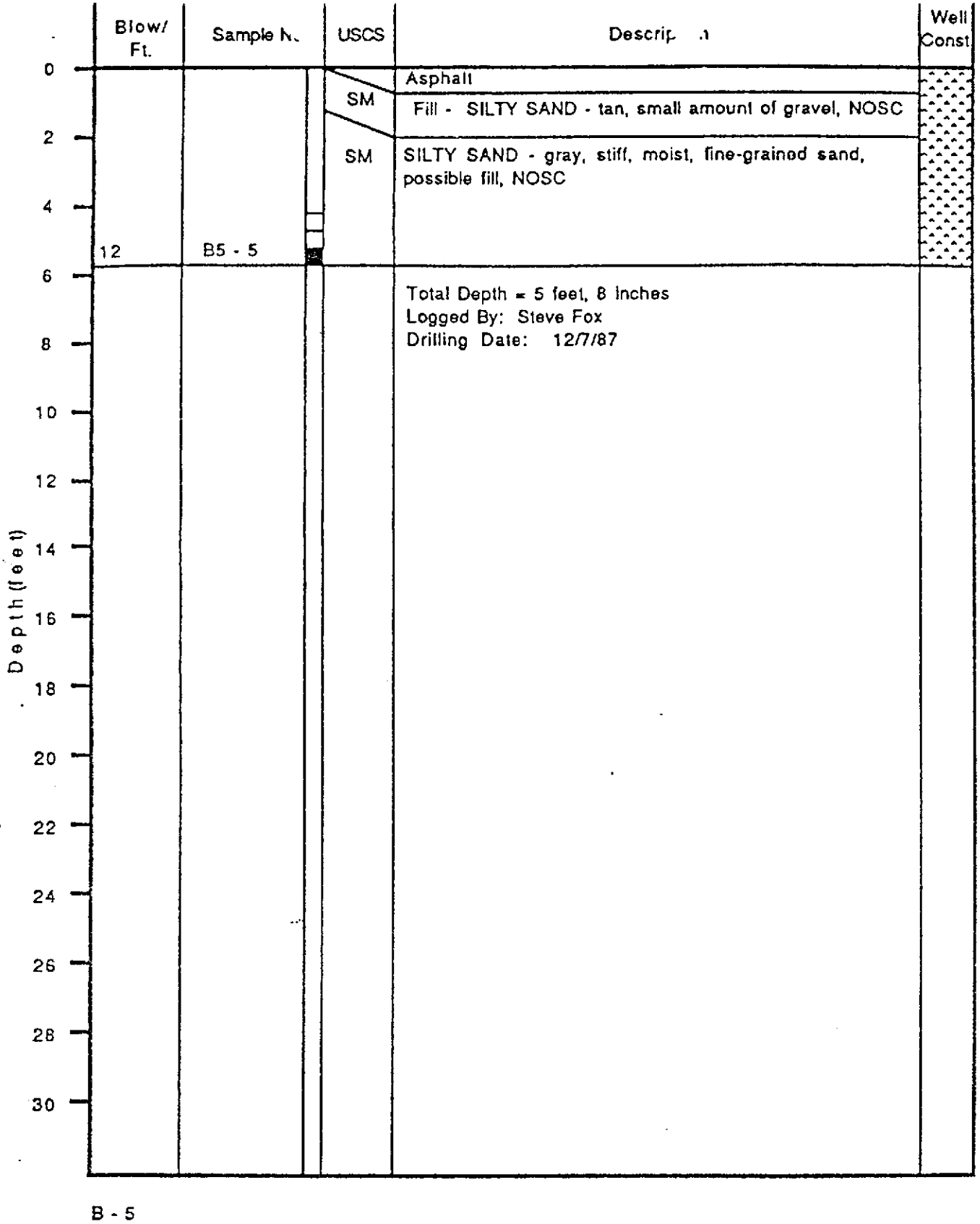
PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-4

PLATE

A5



B - 5

KLEINFELDER

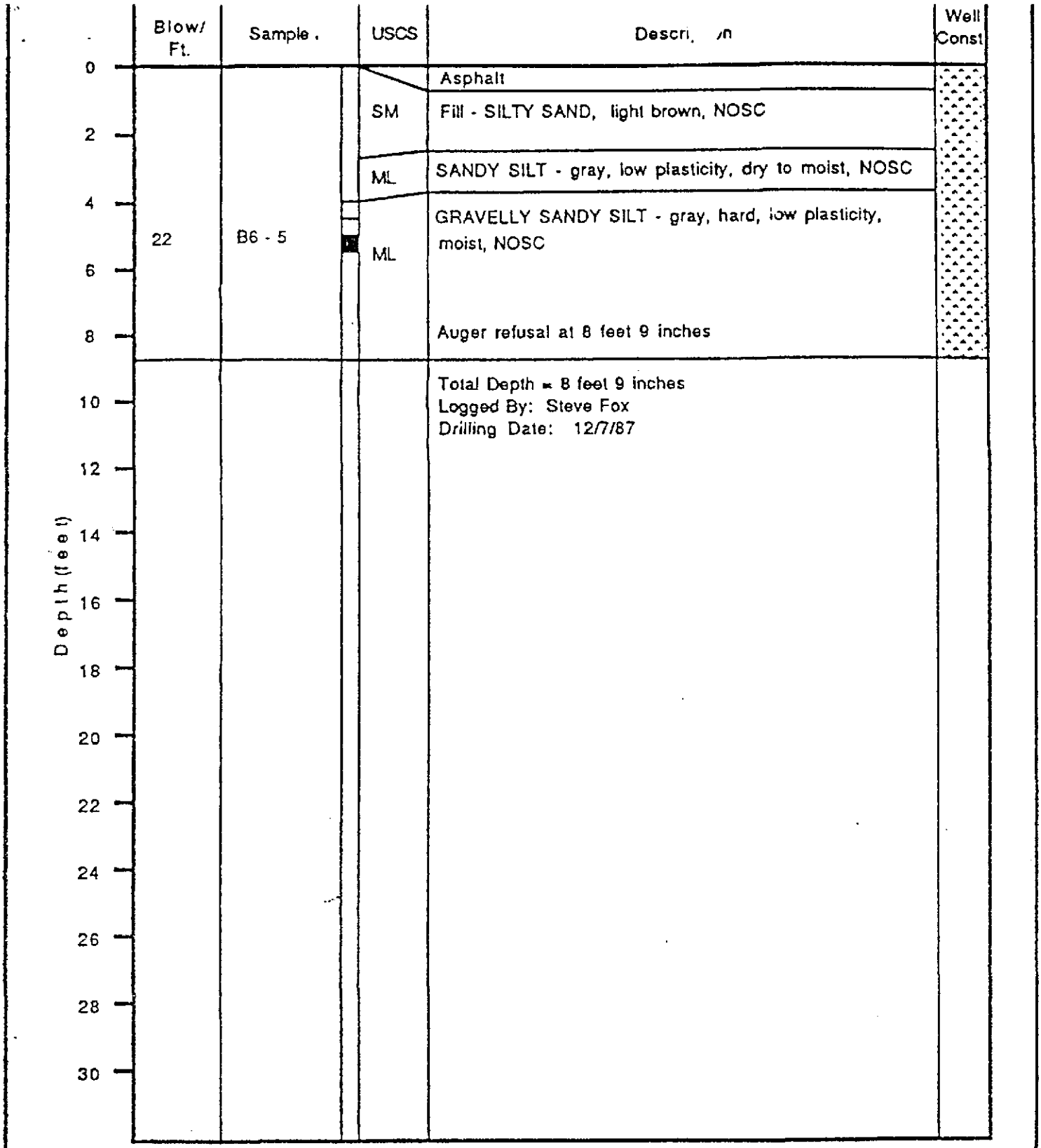
PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-5

PLATE

A6



B - 6

KLEINFELDER

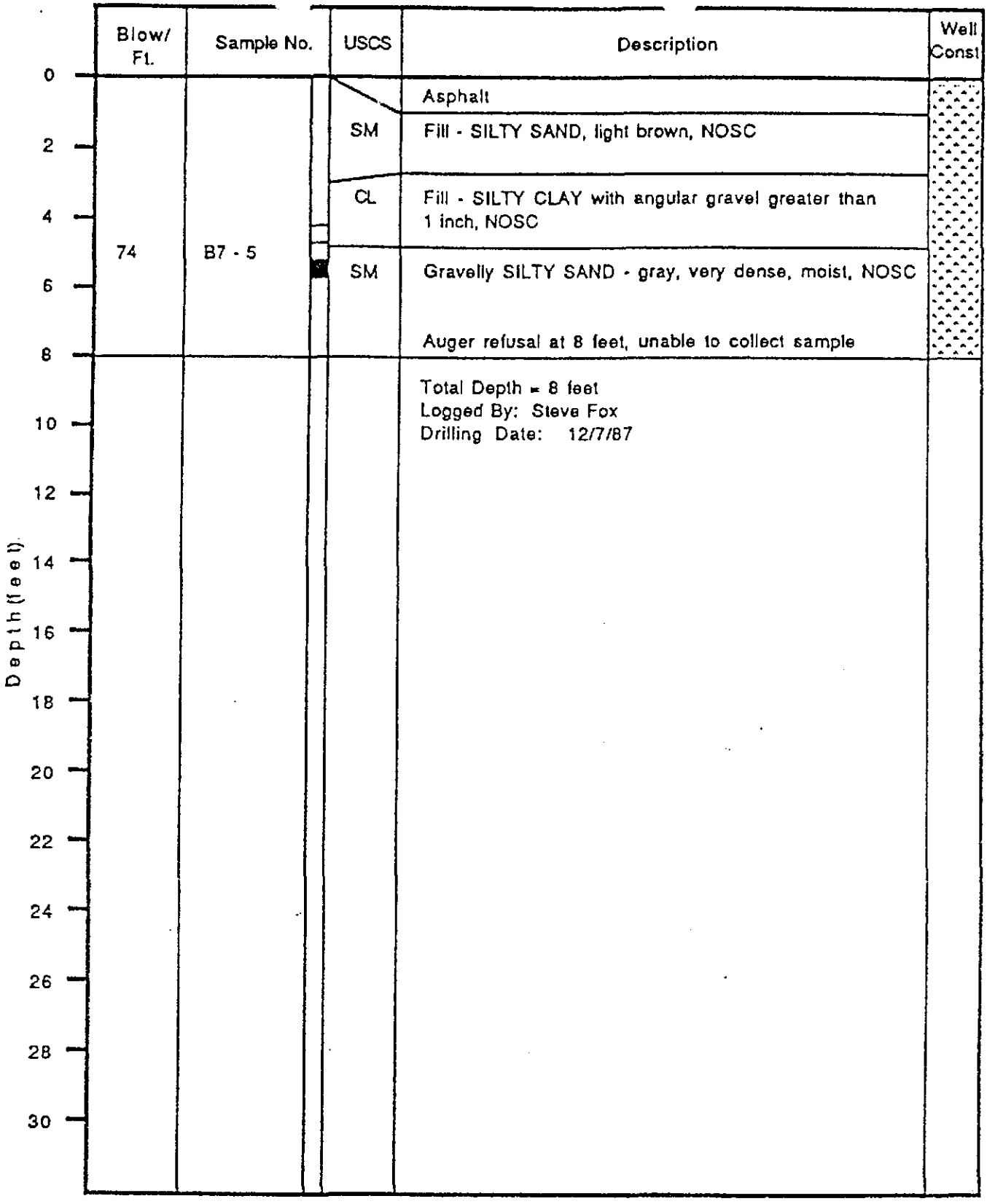
PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-6

PLATE

A7



B - 7

KLEINFELDER

PROJECT NO. 10-1782-01

CHEVRON, USA - STATION 7127
GRANT LINE ROAD
TRACY, CALIFORNIA

BORING LOG B-7

PLATE
A8

GETTLER-RYAN INC.
GROUNDWATER SAMPLING REPORTS

gettler — ryan inc.

June 13, 1989

WATER TREATMENT SYSTEM SAMPLING REPORT

Reference: Chevron Service Station #7127
Grantline/I-580
Tracy, California

Sampling Date: May 24, 1989

This report presents the results of the Water treatment system sampling that took place on May 24, 1989, at the referenced location.

The treatment system samples were collected following a purge time sufficient to clear any residual contamination to order to obtain a representative sample. Proper sample technique assured all containers were filled, capped, and properly stored on blue ice for transport to the laboratory. In addition, pH, temperature and conductivity measurements were taken in the field from representive samples.

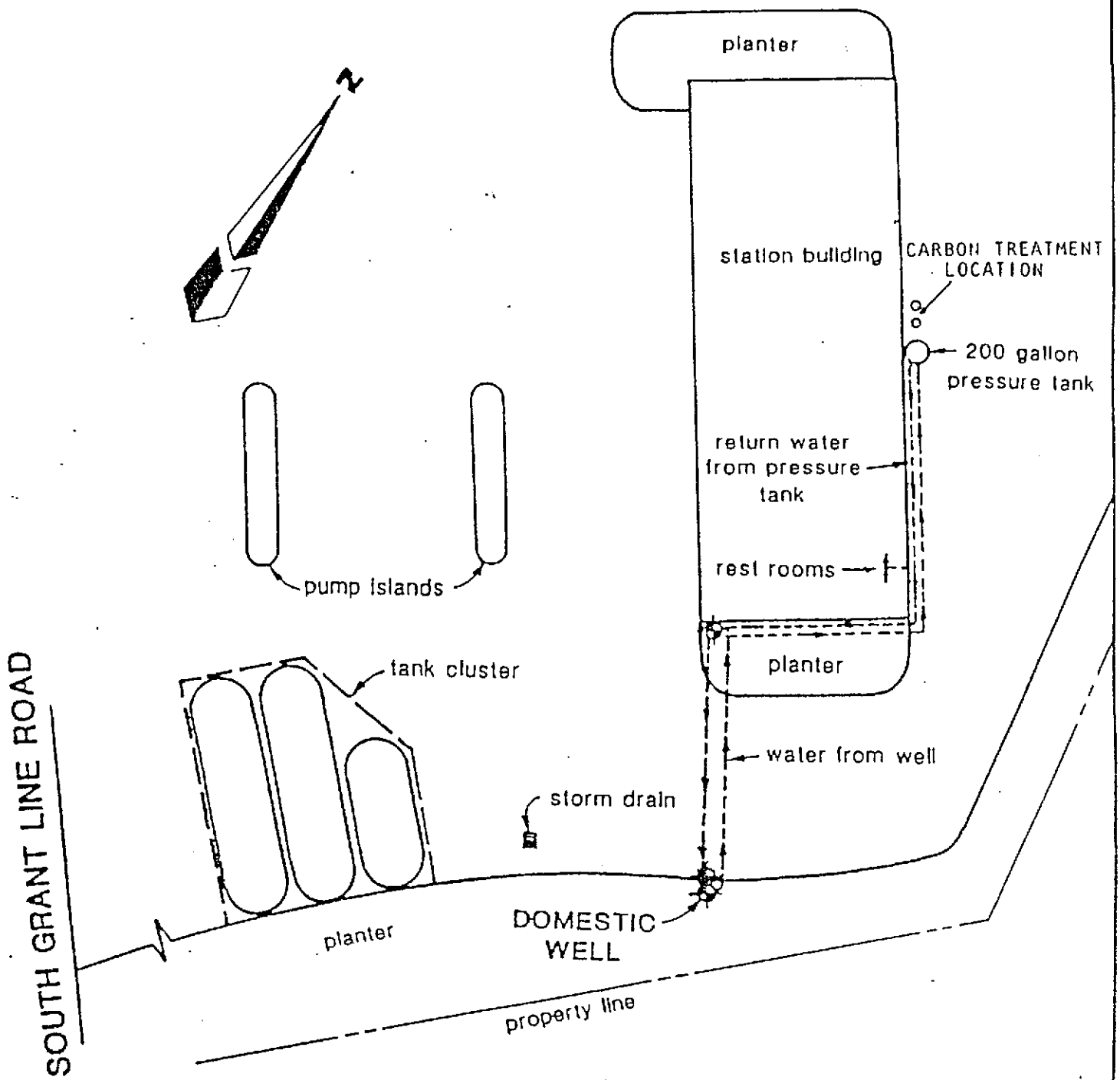
The samples were analyzed at International Technology Corporation - Santa Clara Valley Laboratory located at 2055 Junction Avenue, San Jose, California. The laboratory is assigned a California DHS-HMTL Certification number of 137. The results are presented as a Certified Analytical Report, a copy of which is attached to this report.

Chain of Custody documentation is attached to this report.

Tom Paulson
Sampling Manager

attachments

1992 national avenue • hayward, california 94545-1787 • (415) 783-7500



0 10 20 30 feet

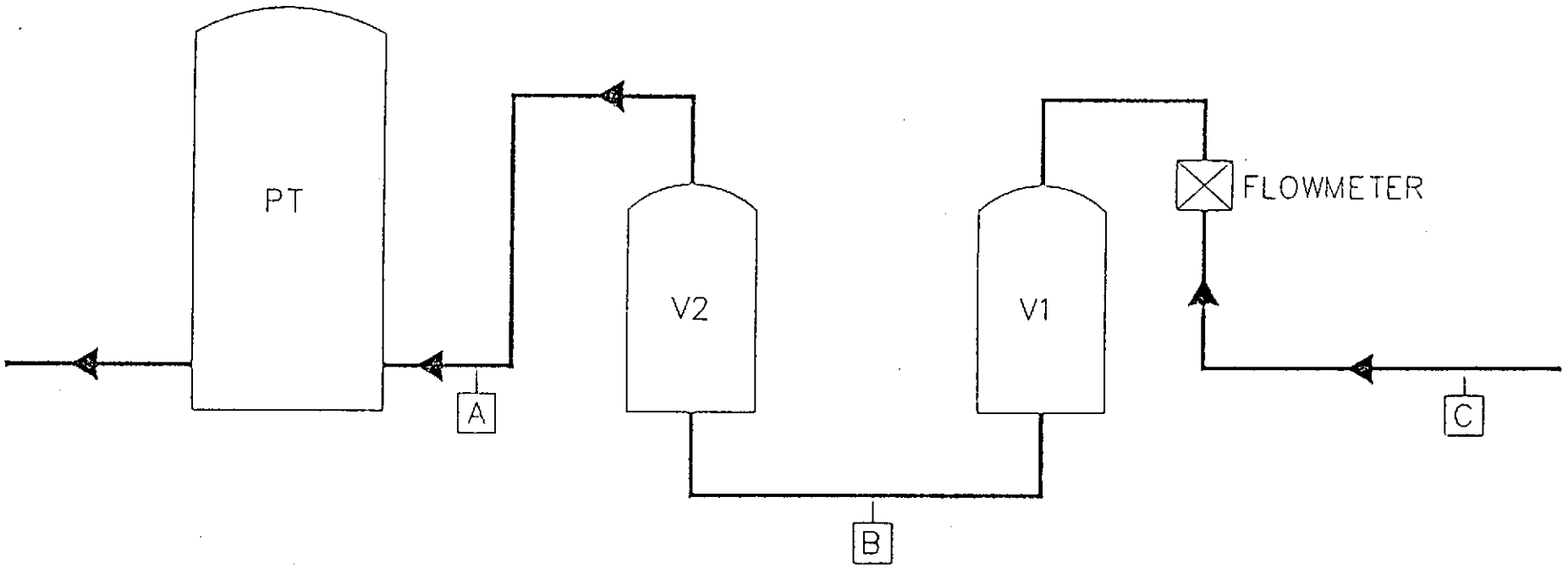
approximate scale

BASE MAP BY KLEINFELDER

NOTE: Plumbing system is diagrammatic only. Actual plumbing system layout was not available during this report preparation.

getler — ryan inc.

SITE PLAN
CHEVRON U.S.A. STATION # 7127
GRANT LINE ROAD
TRACY, CALIFORNIA



V1 = CARBON UNIT #1 200lb

V2 = CARBON UNIT #2 200lb

PT = PRESSURE TANK

[A] = EFFLUENT SAMPLE POINT

[B] = BETWEEN FILTER SAMPLE POINT

[C] = INFLUENT SAMPLE POINT

GETTLER-RYAN INC. 1992 NATIONAL AVENUE HAYWARD, CALIFORNIA	PROCESS FLOW DIAGRAM	CHEVRON SERVICE STATION #7127 I-580/GRANTLINE ROAD TRACY, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Gettler-Ryan
1992 National Avenue
Hayward, CA 94545
ATTN: Jerry Mitchell

Date: May 31, 1989

FILE COPY

Work Order Number: S9-05-299

P.O. Number: 3251

This is the Certificate of Analysis for the following samples:

Client Project ID:	GR #3251, Chevron, I 580/Grantline Rd. Tracy, CA
Date Received by Lab:	5/24/89
Number of Samples:	4
Sample Type:	Water

The method of analysis for low boiling hydrocarbons is taken from EPA Methods 8015, 8020 and 5030. The sample is examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector. The result for total low boiling hydrocarbons is calculated as gasoline and includes benzene, toluene, ethyl benzene and xylenes.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/jd
1 Page Following - Table of Results

Date: May 31, 1989
Client Project ID: GR #3251, Chevron, I 580/ Grantline Rd., Tracy, CA

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order Number: S9-05-299

Lab Sample ID	Client Sample ID	Sample Date	Date Analysis Completed	Sample Condition on Receipt
S9-04-299-01	A	5/24/89	5/25/89	Cool, pH ≤2
S9-04-299-02	B	5/24/89	5/25/89	Cool, pH ≤2
S9-04-299-03	C	5/24/89	5/25/89	Cool, pH ≤2
S9-04-299-04	Trip Blank	5/24/89	5/25/89	Cool, pH ≤2

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

ND = None Detected

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	Low Boiling Hydrocarbons (calculated as Gasoline)	Benzene	Toluene	Ethyl Benzene	Xylenes (total)
S9-04-299-01	A	ND	ND	ND	ND	ND
S9-04-299-02	B	ND	ND	ND	ND	ND
S9-04-299-03	C	ND	ND	ND	ND	ND
S9-04-299-04	Trip Blank	ND	ND	ND	ND	ND
Detection Limit		50.	0.5	1.	1.	3.

57-05-277

Gettler - Ryan Inc. — Environmental Division — **Chain of Custody**

COMPANY Chevr USA #7127 JO 084

JOB LOCATION I-580, Grantline Rd

CITY Tracy CA PHONE NO.

AUTHORIZED ~~Lisa~~ Jerry Mitchell DATE 5-24-89 P.O. NO. 3251

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
A	3	Liquid	5-24-89 / 12:26	TPH(Gas) BTEX	ok Cool
B	3		/ 15:38		
C	3		/ 15:40		
Trip	1		5-22-89		

RELINQUISHED BY: [signature] 5-24-89 16:45

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LAB: Josephine DeCarli 5/24/89 16:45

DESIGNATED LABORATORY: IT/SCV DHS #: 137

REMARKS: 48hr Rush Result due 5-26-89

DATE COMPLETED 5-24-89 FOREMAN [signature]

ORIGINAL