Appendix E

Number

APPENDIX E

TAN AREA WELL CONSTRUCTION DETAILS
LITHOLOGIC AND GEOPHYSICAL LOGS
AND WELL EQUIVALENCY TABLE

WELL EQUIVALENCY TABLE

TABLE KEY

WELL FUNCTION	FUNCTION DESCRIPTION
Abandoned	Well that has been grouted in
In Use	Actively being used
Monitoring	Well for measuring water levels and chemical concentrations
Not in Use	Well not used but not abandoned
Observation	Well for measuring water levels (groundwater heads)
Piezometer	Short screen observation well
Surface Water Drainage	Overflow for flood control infiltration ponds
USGS Monitoring	USGS well in which water levels are measured, and the USGS obtains chemical concentrations

Equivalent Well Names and Well Usage

INEL WELL NAME	EQUIVALENT NAMES	EASTING (FEET)	NORTHING (FEET)	WELL FUNCTION
ANP-1	ANP1 TAN-1 TAN1 TAN-612	359284.	795781.	PRODUCTION-IN USE
ANP-2	ANP2 TAN-2 TAN2 TAN-613	358805.	796089.	PRODUCTION IN USE
ANP-5	ANP5 BS.OP.1 TAN-ANP-05	343170.	808233.	OBSERVATION
ANP-6	ANP6 WASH-RACK	348248.	801439.	MONITORING
ANP-7	ANP7	347550.	822500.	OBSERVATION
ANP-8	WRRTF-PROD	362700.	789200.	PRODUCTION-IN USE
ANP-9	ANP9 STFA1	368001.	783498.	OBSERVATION
ANP-10	ANP10 STFA2	367750.	784853.	OBSERVATION

Equivalent Well Names and Well Usage (continued)

INEL WELL NAME	EQUIVALENT NAMES	EASTING (FEET)	NORTHING (FEET)	WELL FUNCTION
FET-1	FET1 LOFT-PROD1	353390.	798237.	PRODUCTION-IN USE
FET-2	FET2 LOFT-PROD2	353606.	798112.5	PRODUCTION IN USE
FET-3	FET FET3 FET-DISP LOFT-DISP NRTS FET-DISP#1	352199.	798650.	INJECTION-NOT IN USE
GIN-1	GIN1	360676.	788851.	OBSERVATION
GIN-2	GIN2	361170.	788927.	OBSERVATION
GIN-3	GIN3	361486.	788528.	OBSERVATION
GIN-4	GIN4	361120.	788919.	OBSERVATION
GIN-5	GIN5	361358.	789390.	OBSERVATION
IET-DISP	ANP4 IET TAN/IET IET1 IET-06 IET-INJ	358960.	801550.	INJECTION-NOT IN USE
LOFT-DISP	FET-3 FET3 FET-DISP NRTS FET-DISP#1	352199.	798650.	INJECTION-NOT IN USE
LOFT-PROD1	FET-1 FET1	353390.	798237.	PRODUCTION-IN USE
LOFT-PROD2	FET-2 FET2	353606.	798112.5	PRODUCTION-IN USE
LPTF-DISP	LPTF WRRTF-DISP LPTF1	361869.74	788677.	INJECTION-ABANDONED
NONAM	NONAME TAN-TEST NONAME#1	343698.	794099.	USGS MONITORING

Equivalent Well Names and Well Usage (continued)

INEL WELL NAME	EQUIVALENT NAMES	EASTING (FEET)	NORTHING (FEET)	WELL FUNCTION
OWSLEY-2	OWSLEY2 2ND OWSLEY	376365.	779817.	OBSERVATION
P&B	PARK&BELL	414065.	856409.	OBSERVATION
P&W-1	P&W1	341599.	816099.	OBSERVATION
P&W-2	P&W2	343999.	816400.	USGS MONITORING
P&W-3	P&W3	350801.	818802.	OBSERVATION
PSTF	PSTF TEST	343017.	788224.	USGS MONITORING
TAN-1	ANP-1 TAN1 TAN-612	359284.	795781.	PRODUCTION-IN USE
TAN-2	ANP2 TAN2 TAN-613	358805.	796089.	PRODUCTION-IN USE
TAN-3	TAN3	359063.	796508.	MONITORING
TAN-4	TAN4	358378.	795682.	MONITORING
TAN-5	TAN5	358353.	795647.	MONITORING
TAN-6	TAN6	361775.	793961.	MONITORING
TAN-7	TAN7	361771.	793914.	MONITORING
TAN-8	TAN8	358067.	793501.	MONITORING
TAN-9	TAN9	356987.	795490.	MONITORING
TAN-10	TAN10	356953.	795192.	MONITORING
TAN-10A	TAN10A	356923.	795238.	MONITORING
TAN-11	TAN11	356931.	795159.	MONITORING
TAN-12	TAN12	356907.	795121.	MONITORING
TAN-13	TAN13	356565.	794093.	ABANDONED
TAN-13A	TAN13A	356527.	794110.	MONITORING
TAN-14	TAN14	356552.	794052.	MONITORING
TAN-15	TAN15	361715.	792165.	MONITORING
TAN-16	TAN16	361716.	792120.	MONITORING
TAN-17	TAN17	358112.	793496.	MONITORING
TAN-TEST	NONAM NONAME NONAME#1	343698.	794099.	OBSERVATION

Equivalent Well Names and Well Usage (continued)

INEL WELL NAME	EQUIVALENT NAMES	EASTING (FEET)	NORTHING (FEET)	WELL FUNCTION
TCH-1	TCH1 TAN-CH1	356797.	795929.	COREHOLE-PIEZOMETER
TCH-2S	TCH2S TAN-CH2S	358051.	793456.	COREHOLE-PIEZOMETER
TCH-2D	TCH2D TAN-CH2D	358051.	793456.	COREHOLE-PIEZOMETER
TAN-D1	TD-1 TAN-DD2 TD1 TAN-DISP1	358627.	794343.	SURFACE WATER DRAINAGE
TAN-D2	TD-2 TAN-DD2 TD2 TAN-DISP2	356956.	795507.	SURFACE WATER DRAINAGE
TAN-D3	TD-3 TAN-DD3 TD3 TAN-DISP3	354968.	797824.	SURFACE WATER DRAINAGE
TSF-DISP	ANP-3 TSFINJ TSF-INJ TSF-05 TAN-330 TSF A&M3 TAN A&M3	356999.	795400.	INJECTION-NOT IN USE
TSF-INJ	ANP-3 TSFINJ TSF-DISP TSF-05 TAN-330 TSF A&M3 TAN A&M3	356999.	795400.	INJECTION-NOT IN USE
USGS-7	USGS7	347516.	785566.	USGS MONITORING
USGS-24	USGS24	358398.	795214.	MONITORING
USGS-25	USGS25	347252.	812275.	OBSERVATION
USGS-26	USGS26	369610.	803470.	MONITORING
WRRTF-PROD	ANP-8	362700.	789200.	PRODUCTION-IN USE
WRRTF-DISP	LPTF-DISP	362700.	789200.	ABANDONED

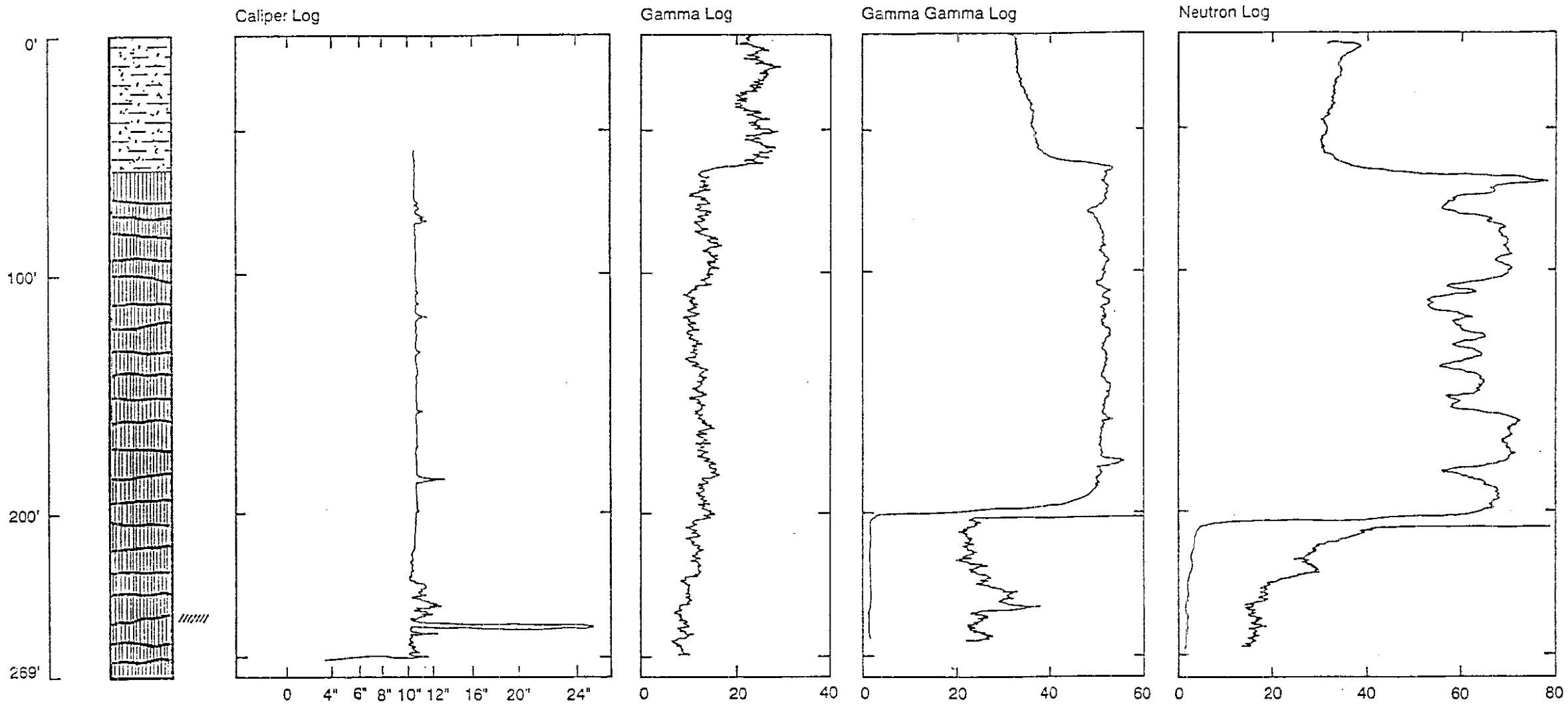
Well Name	Date Drilled	Total Depth	Casing ID (in.)	Material	Cased Interval	Screened Interval	Screen Type
ANP5	Jun-56	395.00	10	STEEL	0-395.00	291.00-311.00 327.00-385.00	PERFORATED PERFORATED
ANP6	Jul-56	305.25	10	STEEL	0-305.25	210.60-255.60 265.60-295.82	PERFORATED PERFORATED
ANP7	May-56	436.20	8	STEEL	0-436.00	353.77-431.21	PERFORATED
ANP8	Jul-56	309.20	8	STEEL	0-309.20	232.80-301.65	PERFORATED
ANP9	Jun-56	320.00	8	STEEL	0-321.80	236.64-313.84	PERFORATED
ANP10	Jul-61	681.00	10	STEEL	0-678.60	577.00-677.00	PERFORATED
GIN1	Mar-64	373.00	8 5/8	STEEL	0-48.00	48.00-373.00	OPEN
GIN2	Apr-64	402.00	8 5/8	STEEL	0-43.00	43.00-402.00	OPEN
GIN3	Apr-64	386.00	8 5/8 6 5/8	STEEL STEEL	0-38.00 0-176.00	176.00-386.00	OPEN
GIN4	May-64	306.00	8 5/8	STEEL	0-41.00	41.00-306.00	OPEN
GIN5	May-64	430.00	8 5/8 4 5/8	STEEL STEEL	0-30.00 0-30.00	30.00-430.00	OPEN
IET DISP	Aug-53	329.00	12	STEEL	0-324.00	219.00-312.00	PERFORATED
LOFT1	Nov-57	339.00	18	STEEL	0-329.90	228.60-328.70	PERFORATED
LOFT2	Apr-58	455.00	18	STEEL	0-455.90	211.30-450.40	PERFORATED
LOFT DISP	Jun-57	301.51	10	STEEL	0-299.51	171.61-294.51	PERFORATED
NO NAM	Nov-67	550.00	12 3/4	STEEL	0-265.00	265.00-550.00	OPEN
OWSLEY 2	Jan-49	309.90	8 4	STEEL STEEL	0-10 0-309	Unknown	Unknown

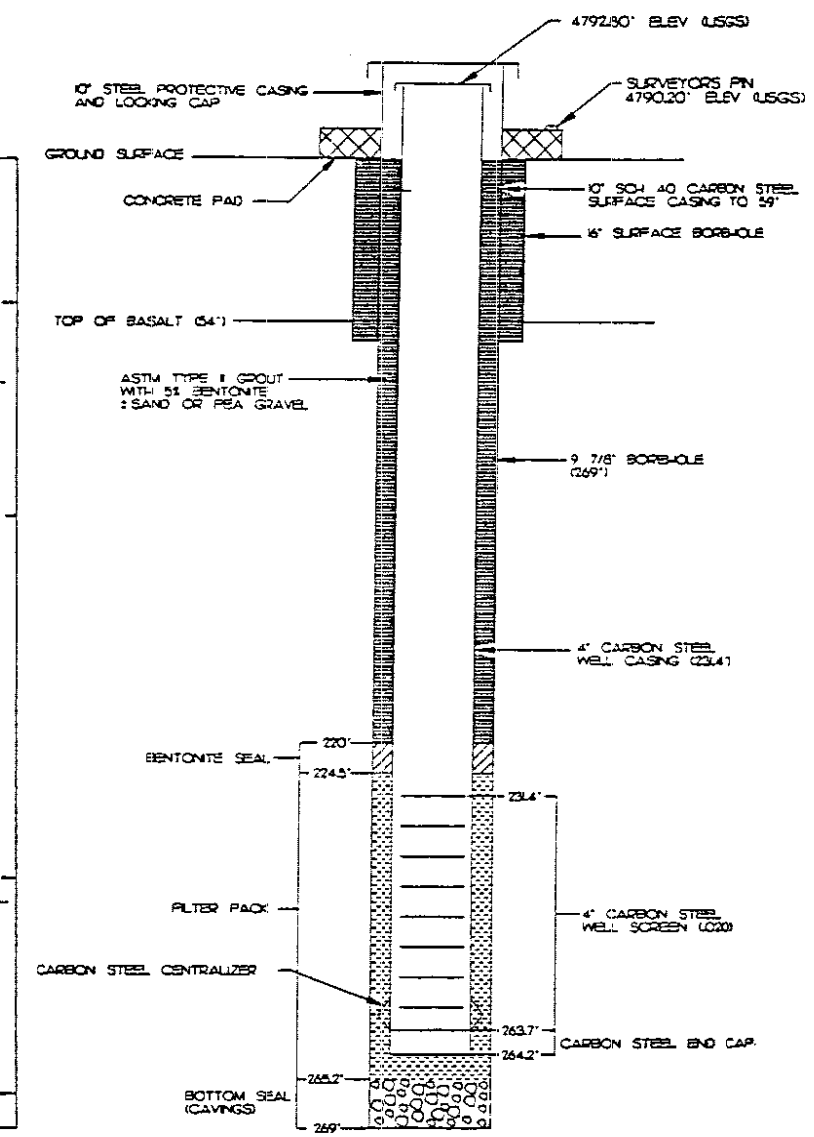
PSTF	Nov-57	320.15	10	STEEL	0-315.05	189.78-315.05	PERFORATED
P&W1	May-57	434.40	10	STEEL	0-432.90	321.90-371.90	PERFORATED
P&W2	June-57	385.95	10	STEEL	0-385.95	312.63-382.74	PERFORATED
P&W3	Aug-57	408.26	10	STEEL	0-406.26	322.34-401.26	PERFORATED
TAN1	Jan-53	365.00	16	STEEL	0-365.00	200.00-360.00	PERFORATED
TAN2	Aug-53	346.00	16	STEEL	0-345.00	235.00-345.00	PERFORATED
TAN3	Dec-89	269.00	10 4	STEEL STEEL	0-59.00 0-231.40	231.40-264.20	WIRE WRAPPED
TAN4	Oct-89	246.50	10 4	STEEL STEEL	0-61.00 0-213.50	213.50-245.00	WIRE WRAPPED
TAN5	Oct-89	303.00	10 4	STEEL STEEL	0-61.00 0-281.50	281.50-303.00	WIRE WRAPPED
TAN6	Jul-90	283.00	10 4	STEEL STAINLESS STEEL	0-49.5 0-235	235.00-255.00	WIRE WRAPPED
TAN7	Jul-90	324.00	10 4	STEEL STAINLESS STEEL	0-44.5 0-297.7	297.7-317.7	WIRE WRAPPED
TAN8	Nov-89	252.00	10 4	STEEL STEEL	0-52.50 0-228.60	228.60-250.00	WIRE WRAPPED
TAN9	Nov-89	326.00	10 4	STEEL STEEL	0-29.50 0-300.40	300.40-322.30	WIRE WRAPPED
TAN10	Sep-89	275.50	10 4	STEEL STEEL	0-62.00 0-215.00	215.00-245.25	WIRE WRAPPED
TAN10A	Mar-90	250.00	8 4	STEEL STEEL	0-40 0-216.40	216.40-250.00	WIRE WRAPPED
TAN11	Aug-89	328.00	10 4	STEEL STEEL	0-58.00 0-290.00	290.00-310.00	WIRE WRAPPED

TAN12	Jul-90	394.00	10 4	STEEL STAINLESS STEEL	0-61 0-362	362.00-382.00	WIRE WRAPPED
TAN13	Oct-90	255.00	10 4	STEEL STAINLESS STEEL	0-46.5 0-219	219.00-239.00	ABANDONED
TAN13A	Nov-90	244.00	10 4	STEEL STAINLESS STEEL	0-44.5 0-216	216.00-236.00	WIRE WRAPPED
TAN14	Jul-90	404.00	10 4	STEEL STAINLESS STEEL	0-45 0-376	376.00-396.00	WIRE WRAPPED
TAN15	Jul-90	255.00	10 4	STEEL STAINLESS STEEL	0-24.7 0-232	232.00-252.00	WIRE WRAPPED
TAN16	Jul-90	323.00	10 4	STEEL STAINLESS STEEL	0-23 0-302	302.00-322.00	WIRE WRAPPED
TAN17	Oct-90	352.00	8 2 2	STEEL PVC STAINLESS STEEL	0-48.2 0-150 150-320	320.00-340.00	WIRE WRAPPED
TCH1	Sep-89	600.00	4 1 1/4	STEEL PVC	0-46.30 0-394	389.00-394.00	SLOTTED
TCH2	Jul-90	1113.50	8 0.75 0.75	STEEL GALVANIZED GALVANIZED	0-47.4 0-497.3 0-1090	487.3-497.3 1080-1090	SLOTTED SLOTTED
TAN DISP1	Aug-67	325.50	16 10 3/4	STEEL STEEL	0-8 0-325.50	75.54-84.96 205.60-215.30 284.84-315.38	PERFORATED PERFORATED PERFORATED

TAN DISP2	Aug-67	262.00	16 10 3/4	STEEL STEEL	1-8.00 0-262.00	116.00-125.64 201.39-221.50 231.54-251.23	PERFORATED PERFORATED PERFORATED
TAN DISP3	Aug-67	301.90	16 10 3/4	STEEL STEEL	0-32.00 0-301.90	155.60-166.00 246.50-266.60 277.10-299.60	PERFORATED PERFORATED PERFORATED
TSF INJ	Jun-53	310.00	12	STEEL	0-310.00	180.00-244.00 269.00-305.00	PERFORATED PERFORATED
USGS7	Apr-50	1200.00	8 6	STEEL STEEL	0-125.00 0-760.00	760.00-1200.00	OPEN
USGS24	Jan-52	326.00	8	STEEL	0-326.00	255.00-265.00 270.00-275.00 285.00-325.00	PERFORATED PERFORATED PERFORATED
USGS25	Jan-52	320.00	6	STEEL	0-320.00	285.00-320.00	PERFORATED
USGS26	Oct-52	266.50	6 1/4	STEEL	0-266.50	232.00-266.50	PERFORATED

TAN-3 Stratigraphic Sequence





MONITORING WELL - TAN 3
INEL EASTING 359063.31
INEL NORTHING 796507.69

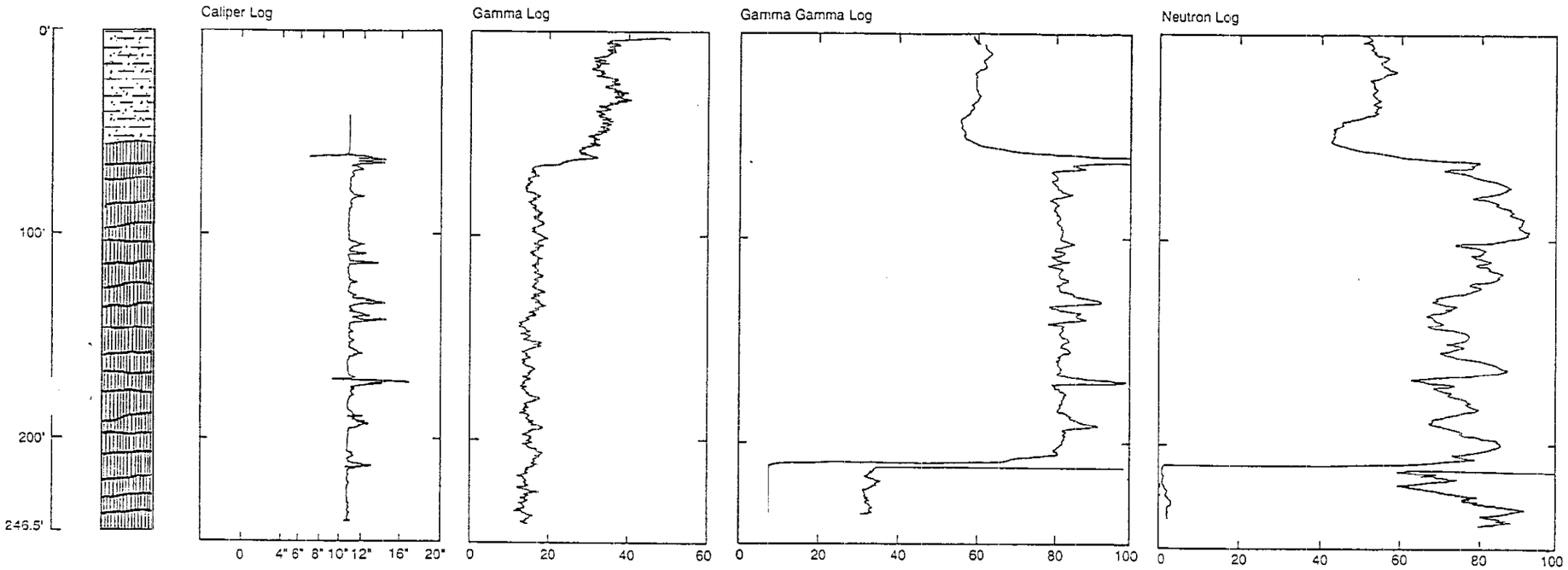
Surface sediments composed of silty clay

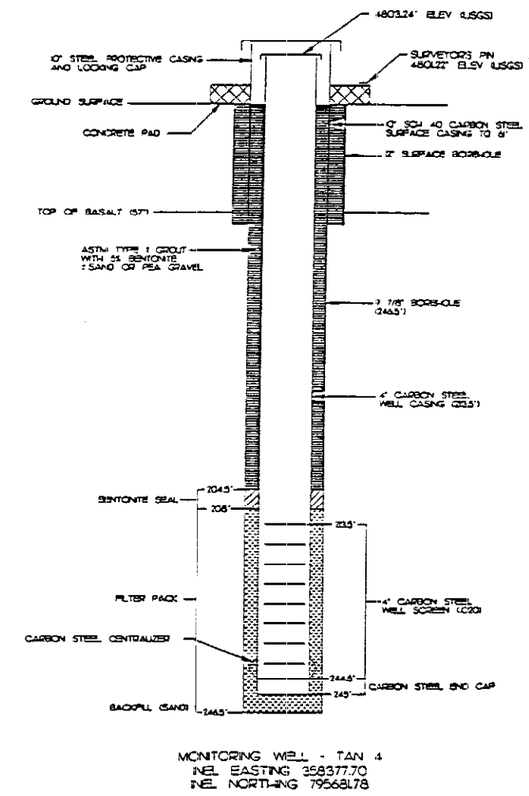
Dark gray, dense, vesicular basalt

Possible fracture zone

0-5706

TAN-4 Stratigraphic Sequence



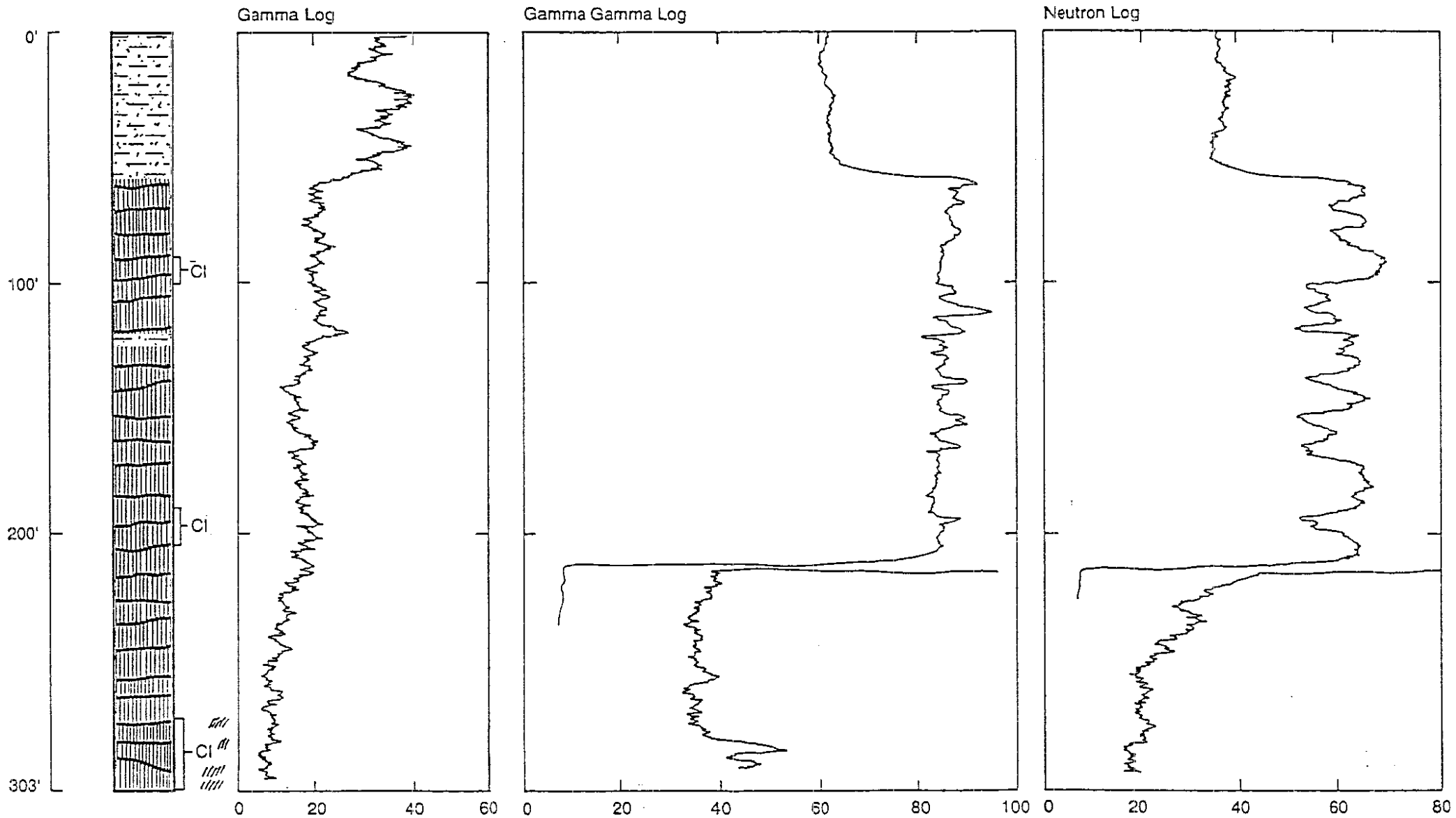


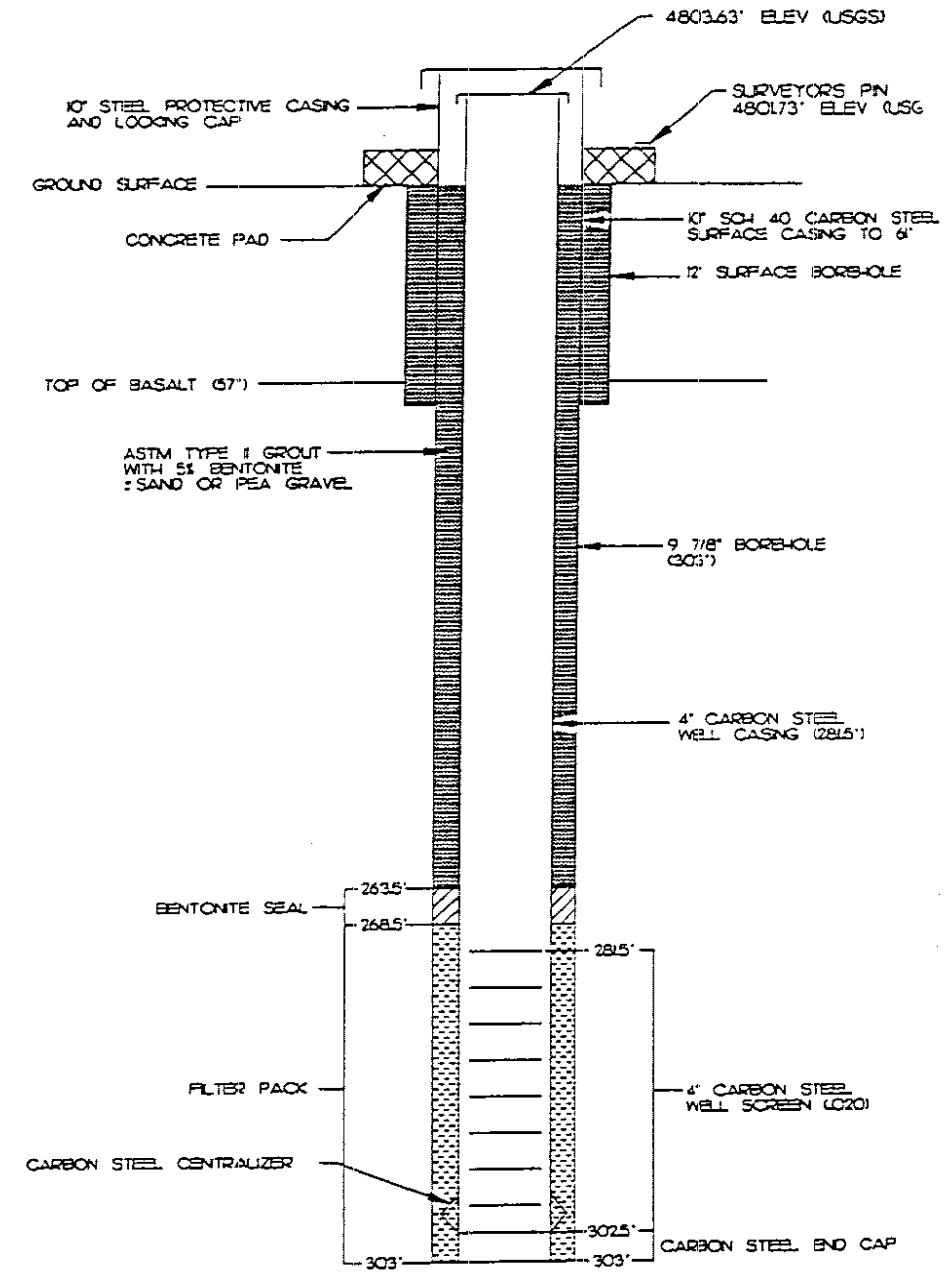
Surface sediments composed of brown and tan silty clay and sand

Dark gray, dense, vesicular basalt

0-6960

TAN-5 Stratigraphic Sequence





MONITORING WELL - TAN 5
INEL EASTING 358353.04
INEL NORTHING 795646.49

Sediments composed of of silty clay

Dark gray, dense, vesicular basalt

CI Cored interval

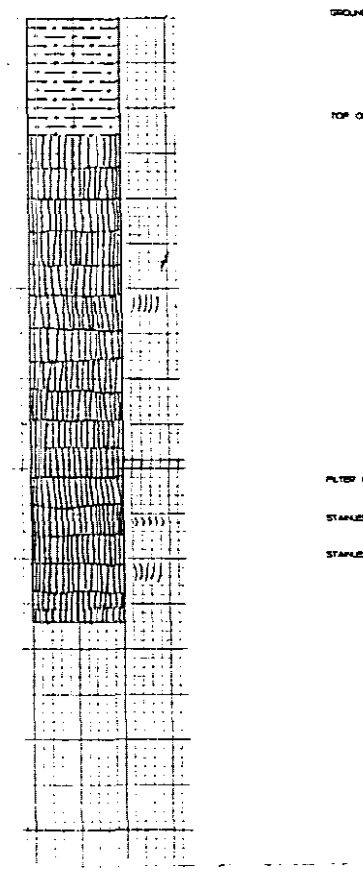
Possible fracture zone

0-7195

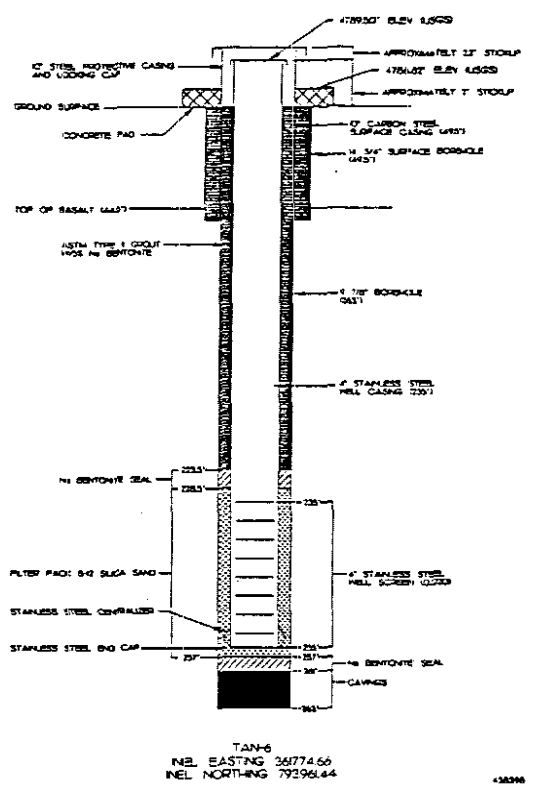
*Caliper Log not shown due to instrument malfunction.

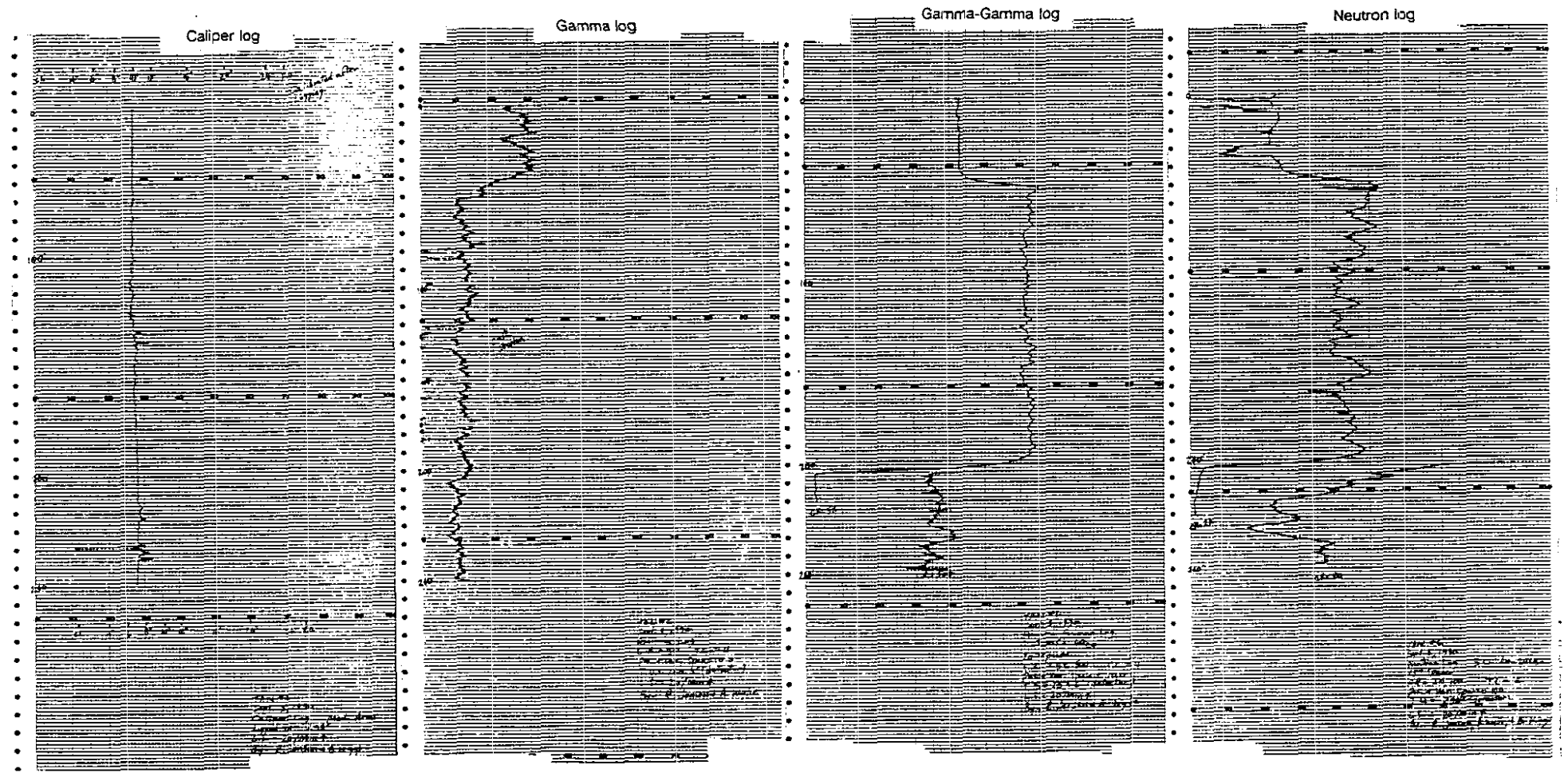
TAN-6

Lithologic log



Construction diagram





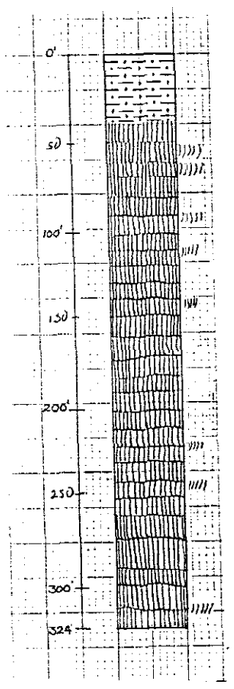
Sediments composed of silty clay

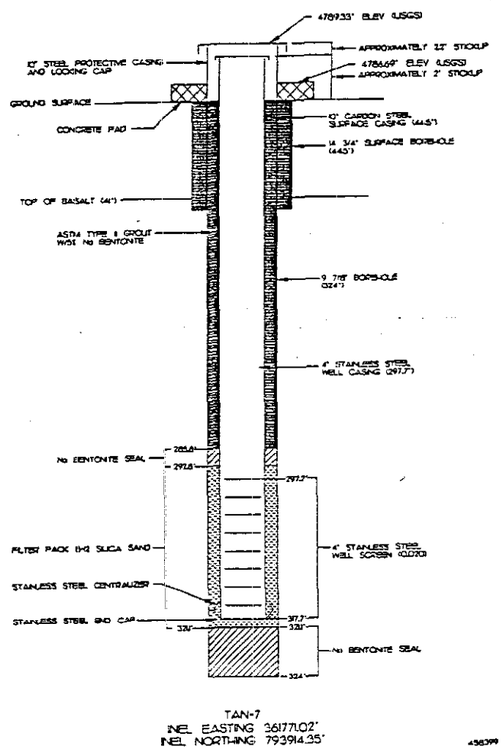
Basalt, dark to light gray dense to vesicular

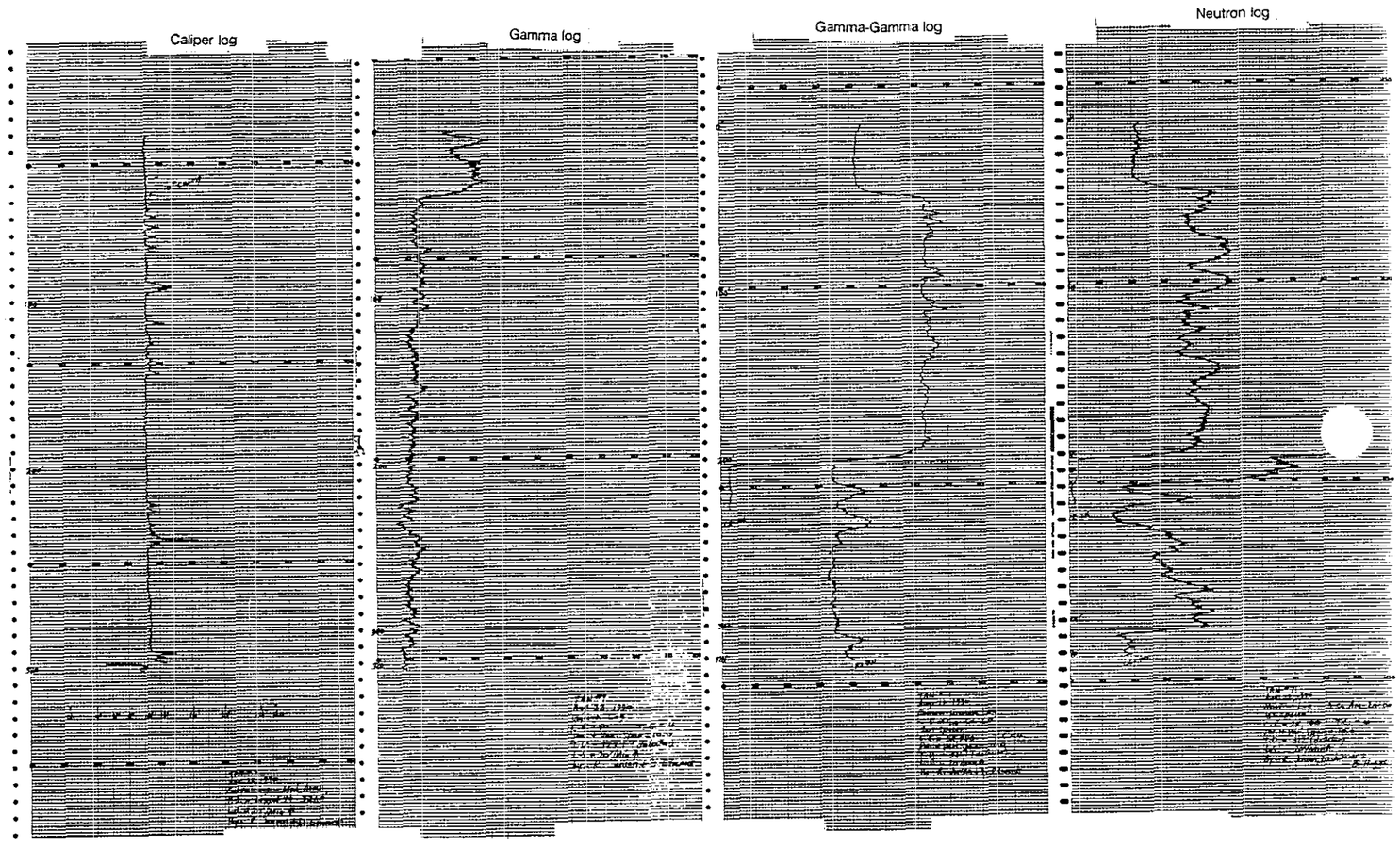
Fracture zone

Vertical scale 1" = 50'

TAN-7







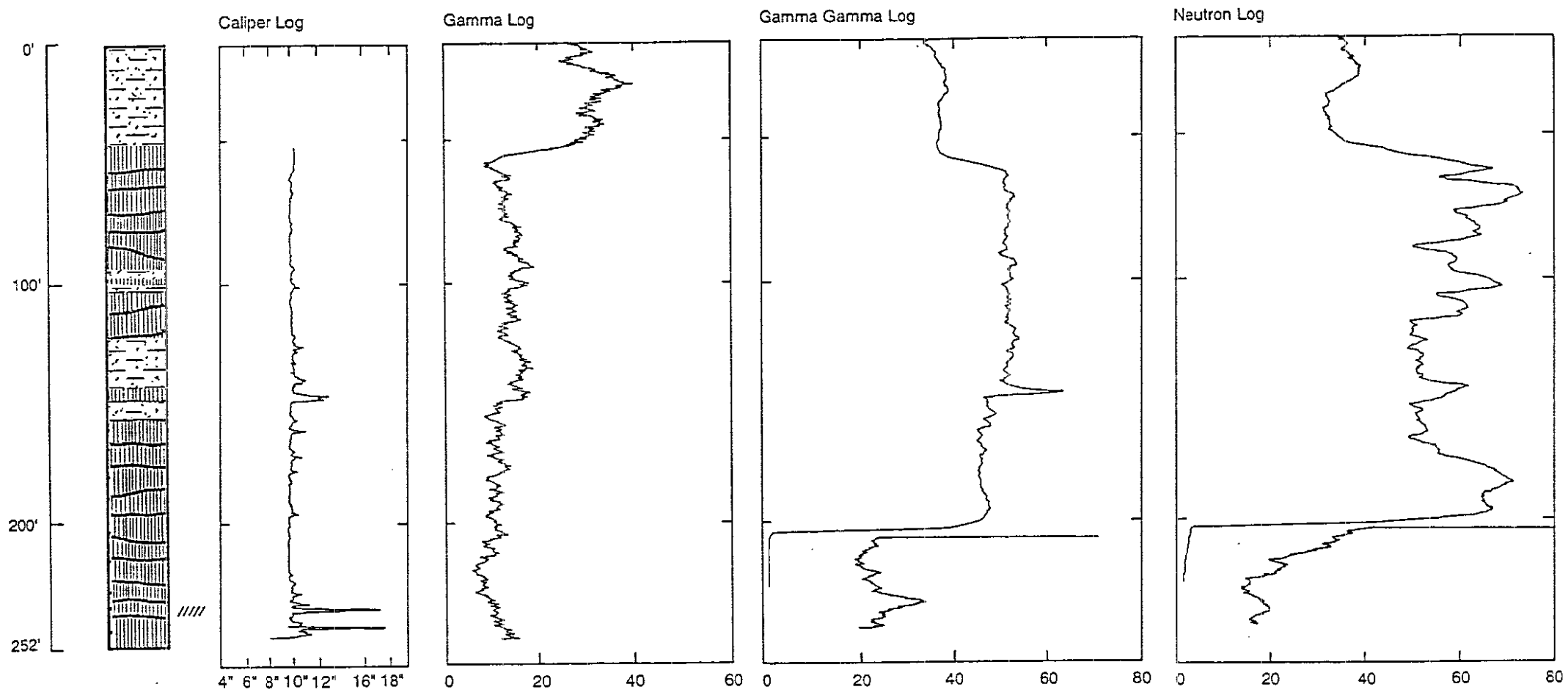
Sediments composed of silty clay

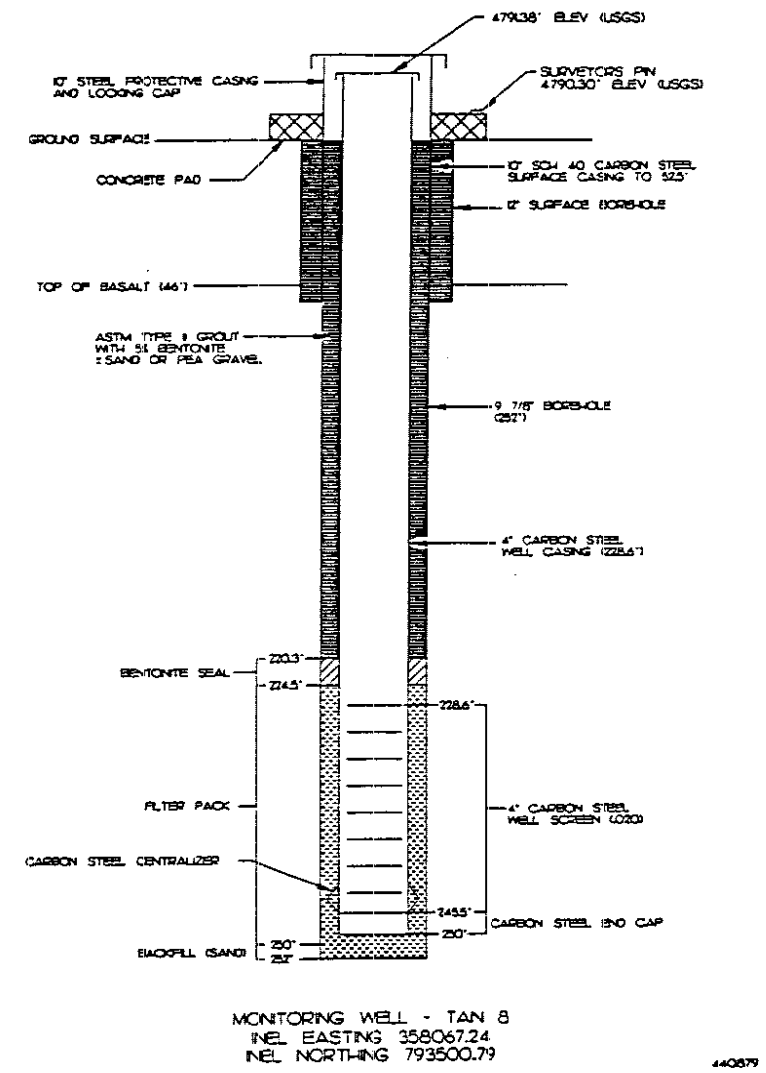
Basalt, dark to light gray dense to vesicular

Fracture zone

Vertical scale 1" = 50'

TAN-8 Stratigraphic Sequence





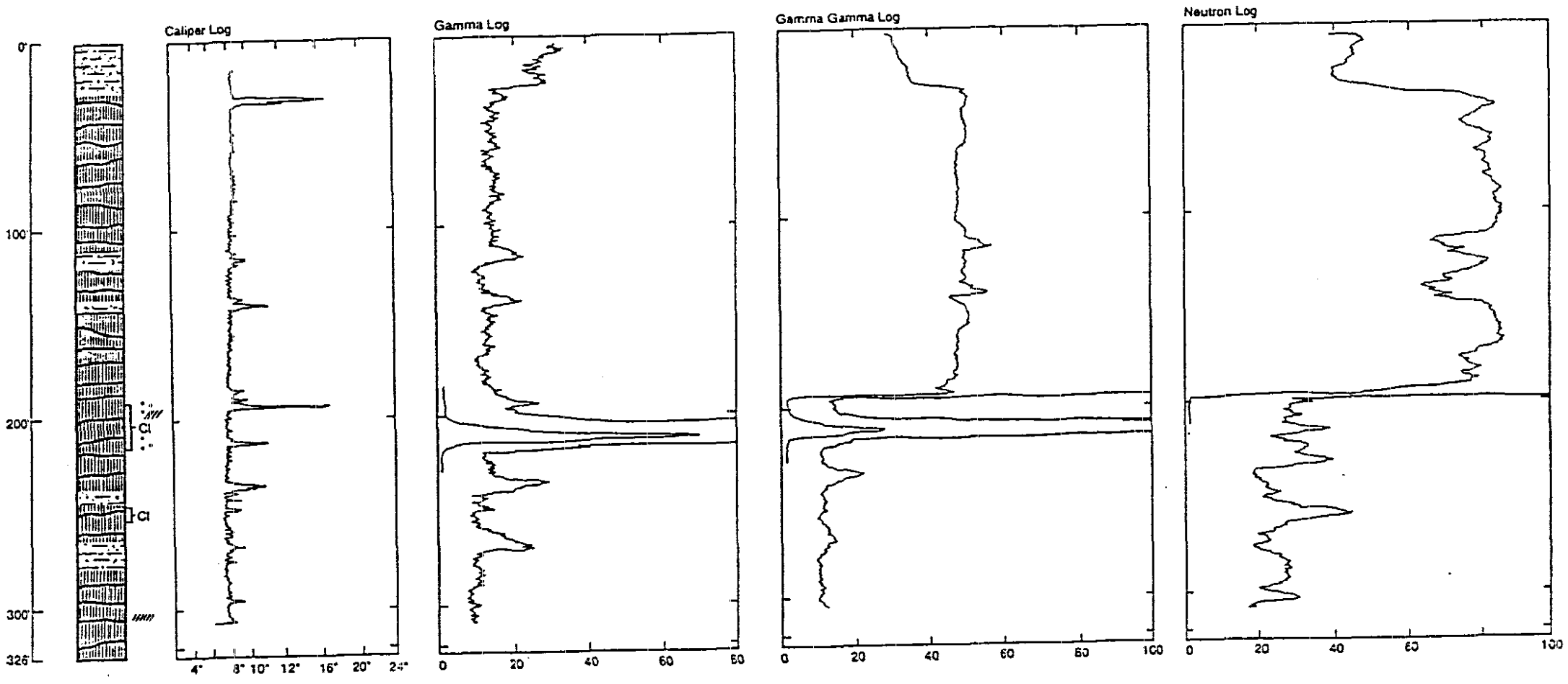
Sediments composed of silty clay

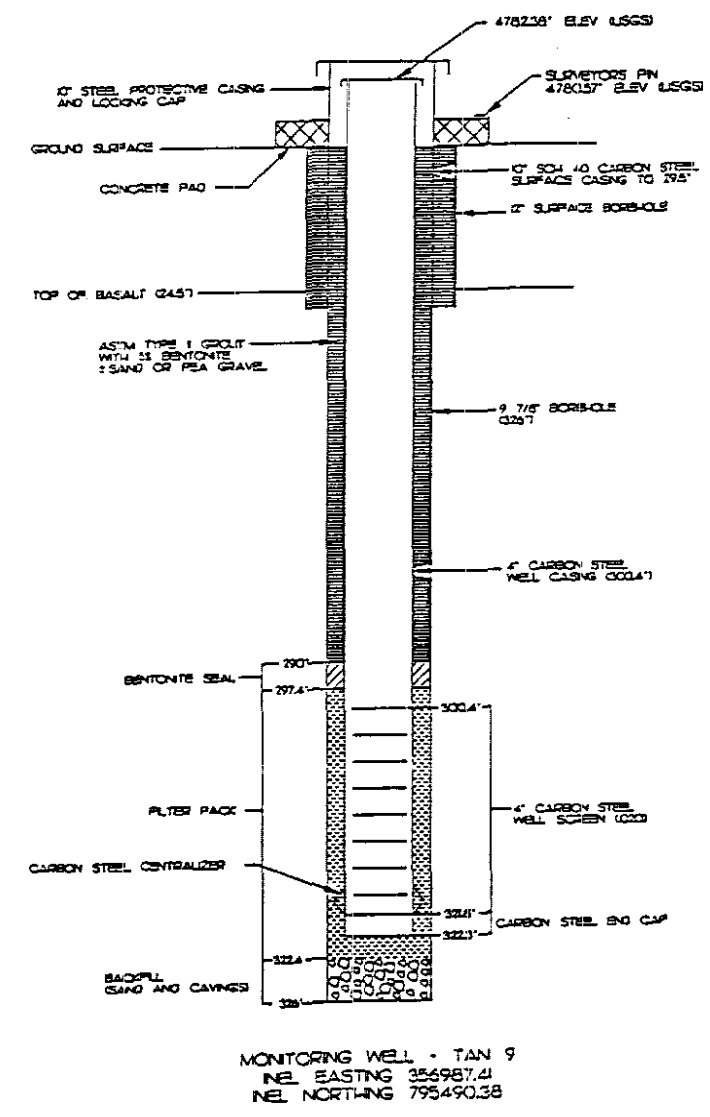
Dark gray, dense, vesicular basalt

Possible fracture zone

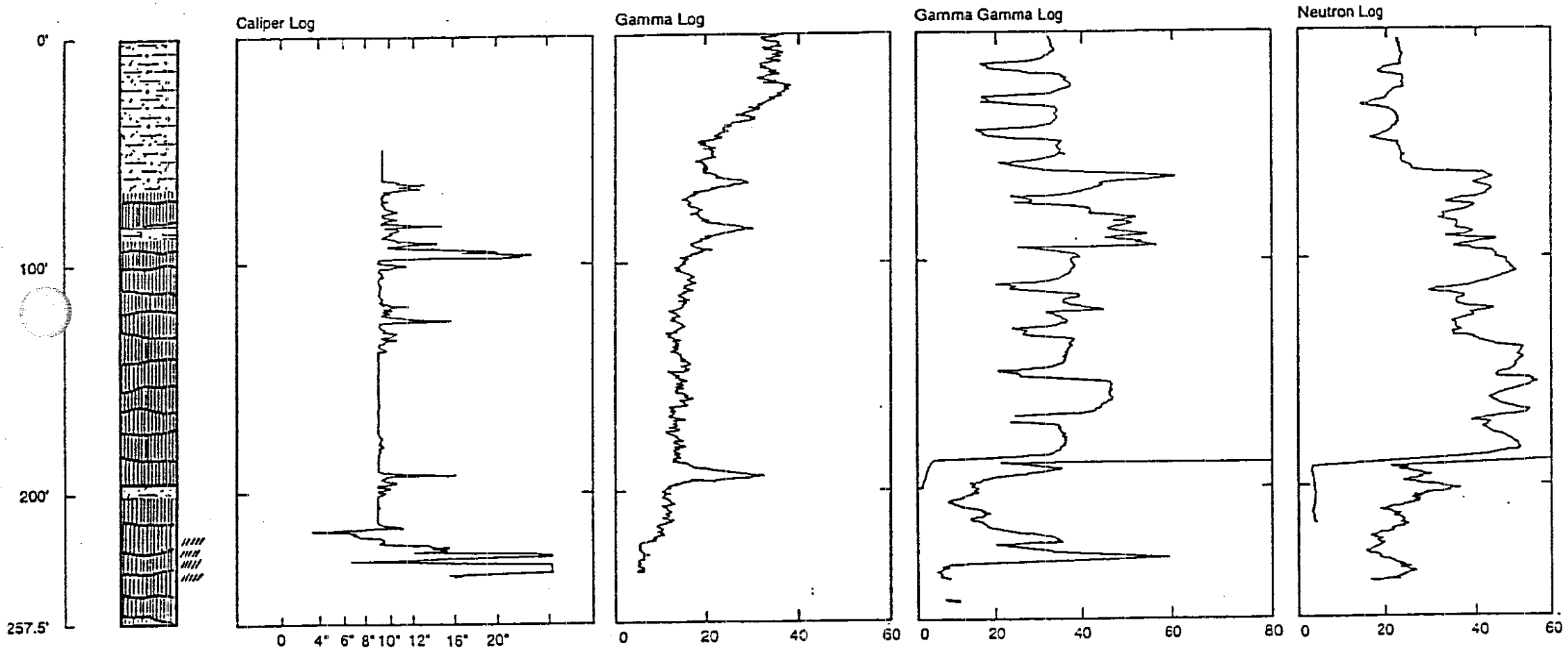
0-6707

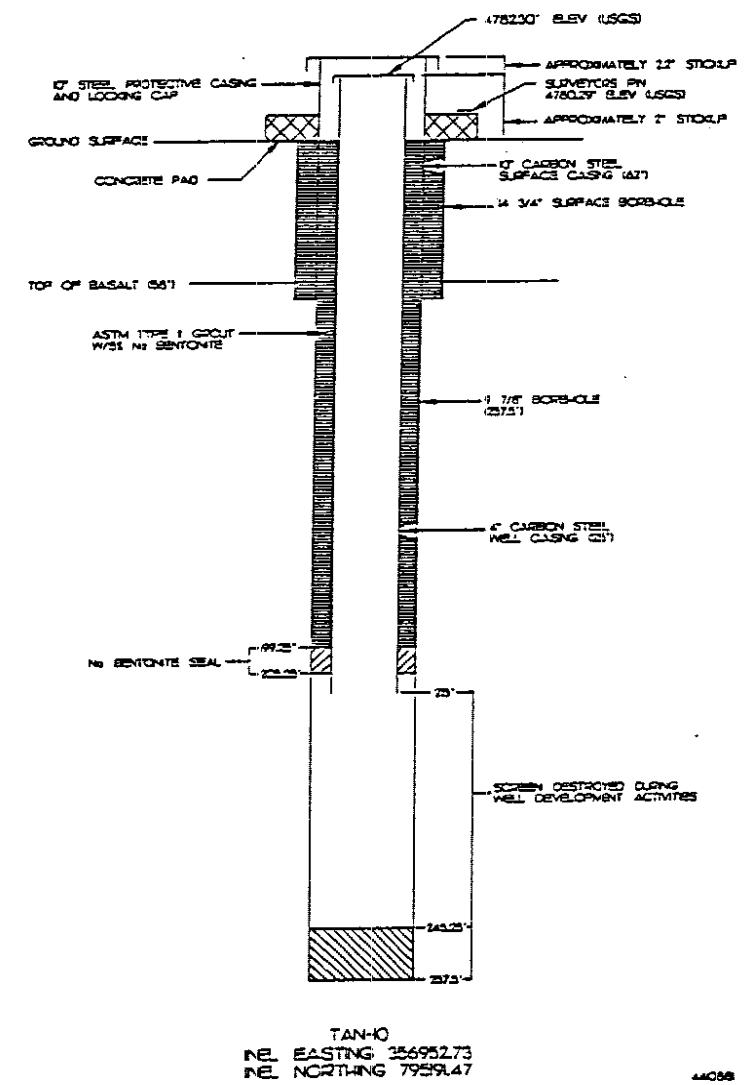
TAN-9 Stratigraphic Sequence





TAN-10 Stratigraphic Sequence





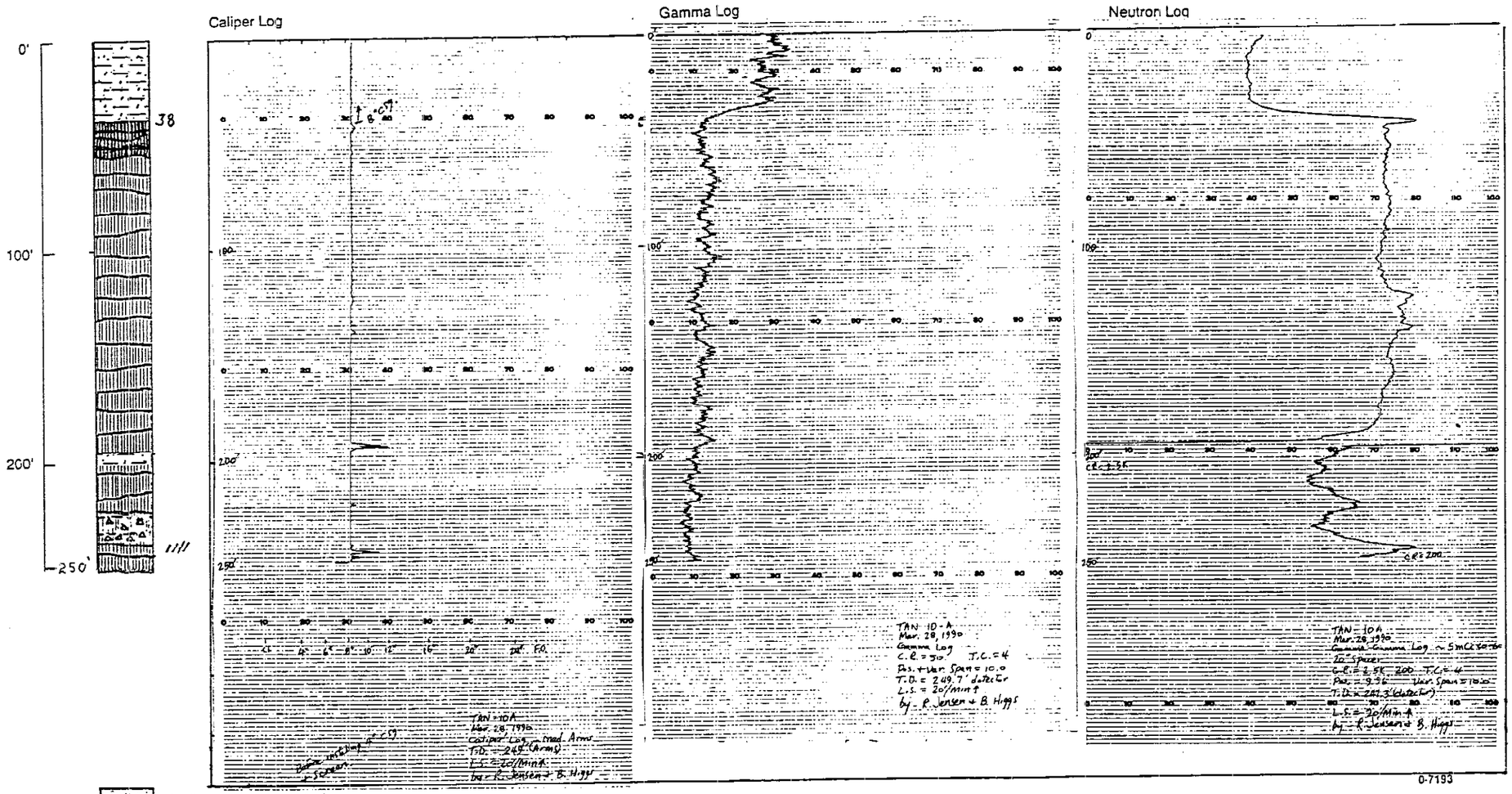
Sediments composed of silty clay

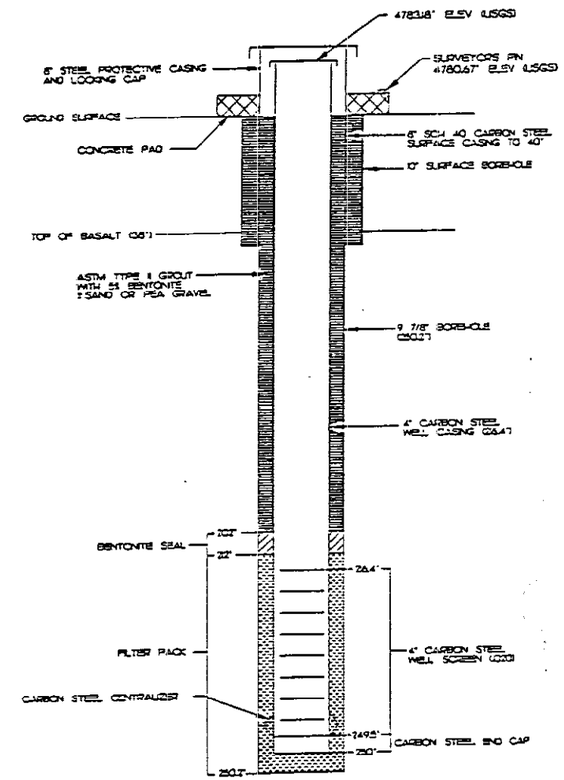
Dark gray, dense, vesicular basalt

Possible fracture zone

0-6705

TAN-10-A Stratigraphic Sequence





MONITORING WELL - TAN 10A
INEL EASTING 355992.58
INEL NORTHING 795237.72

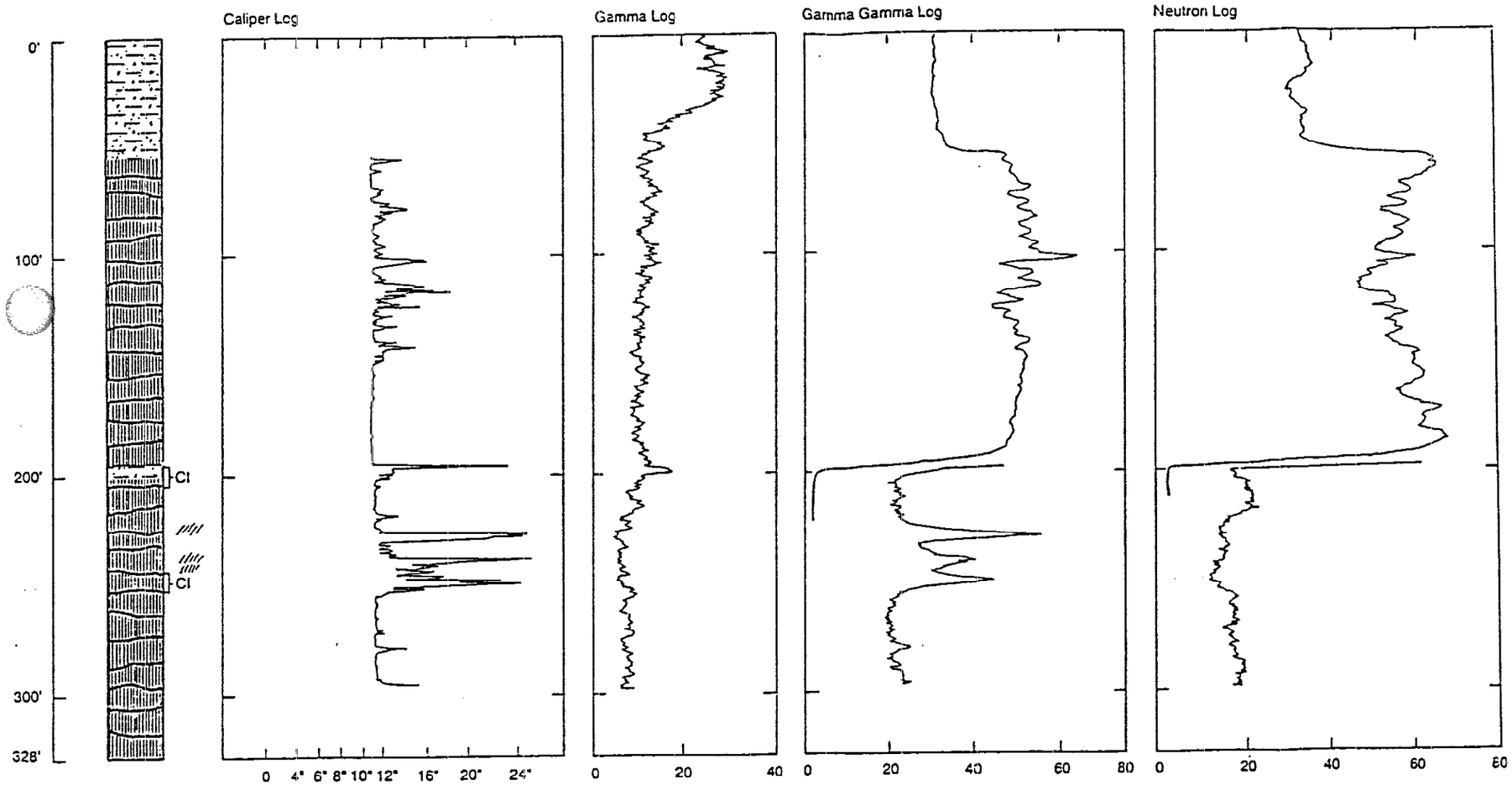
Sediments composed of silty clay

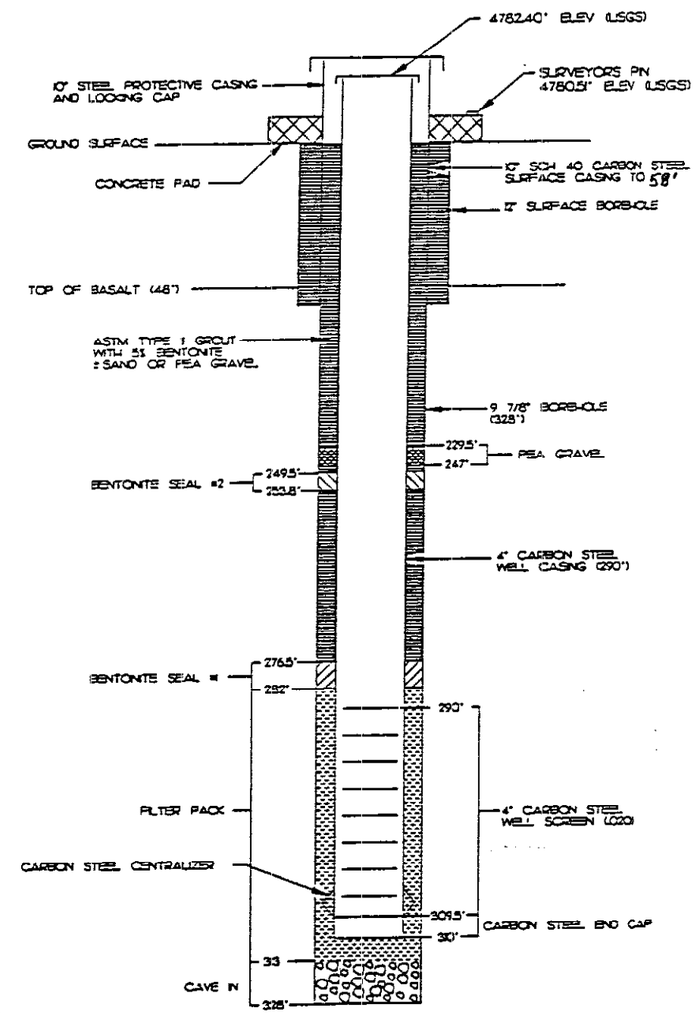
} CI Cored interval

Dark gray, dense, vesicular basalt

Possible fracture zone

TAN-11 Stratigraphic Sequence





MONITORING WELL - TAN II
INEL EASTING 356931.20
INEL NORTHING 795158.98

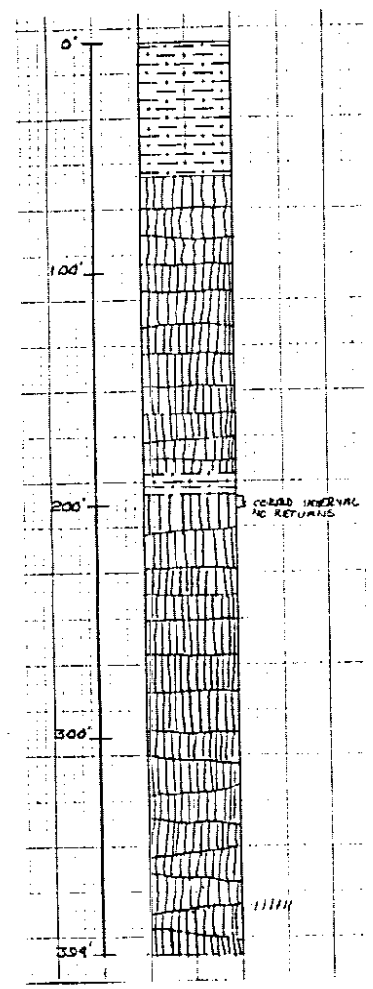
Sediments composed of silty clay

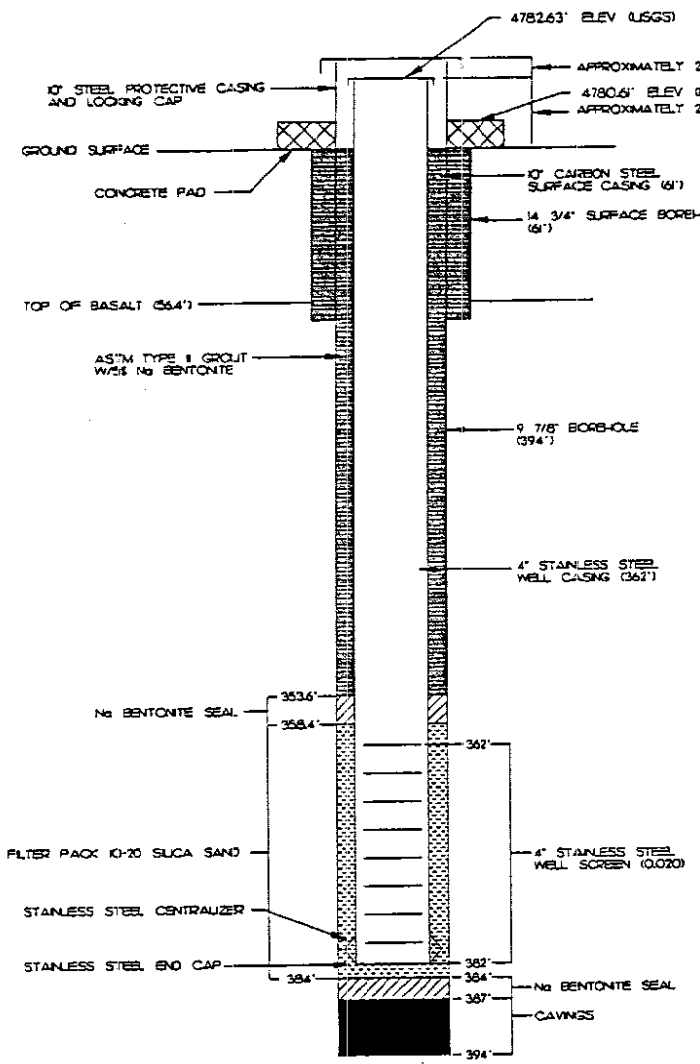
CI Cored interval

Dark gray, dense, vesicular basalt

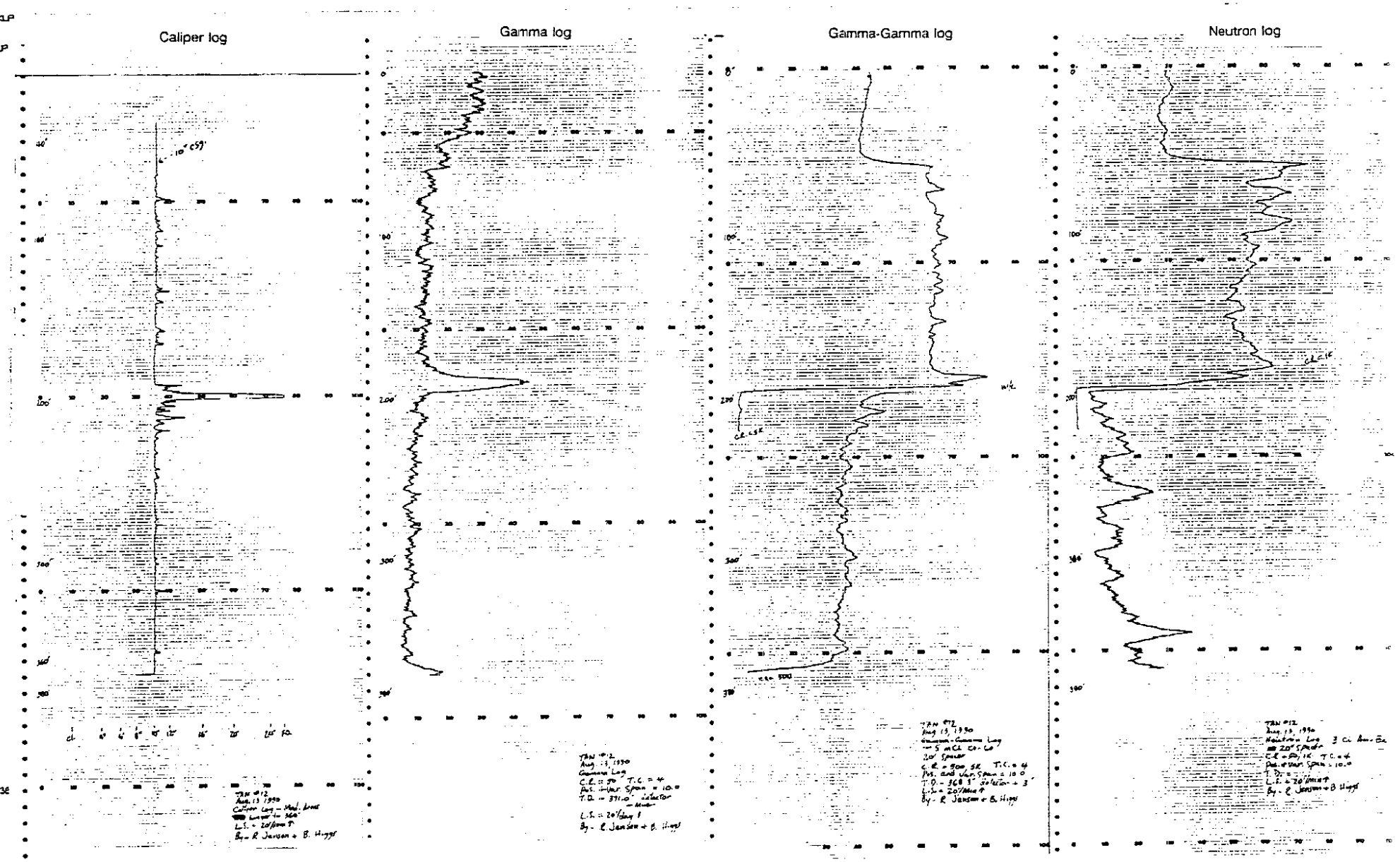
Possible fracture zone

TAN-12





TAN-12
INEL EASTING 356906.93
INEL NORTHING 795120.83



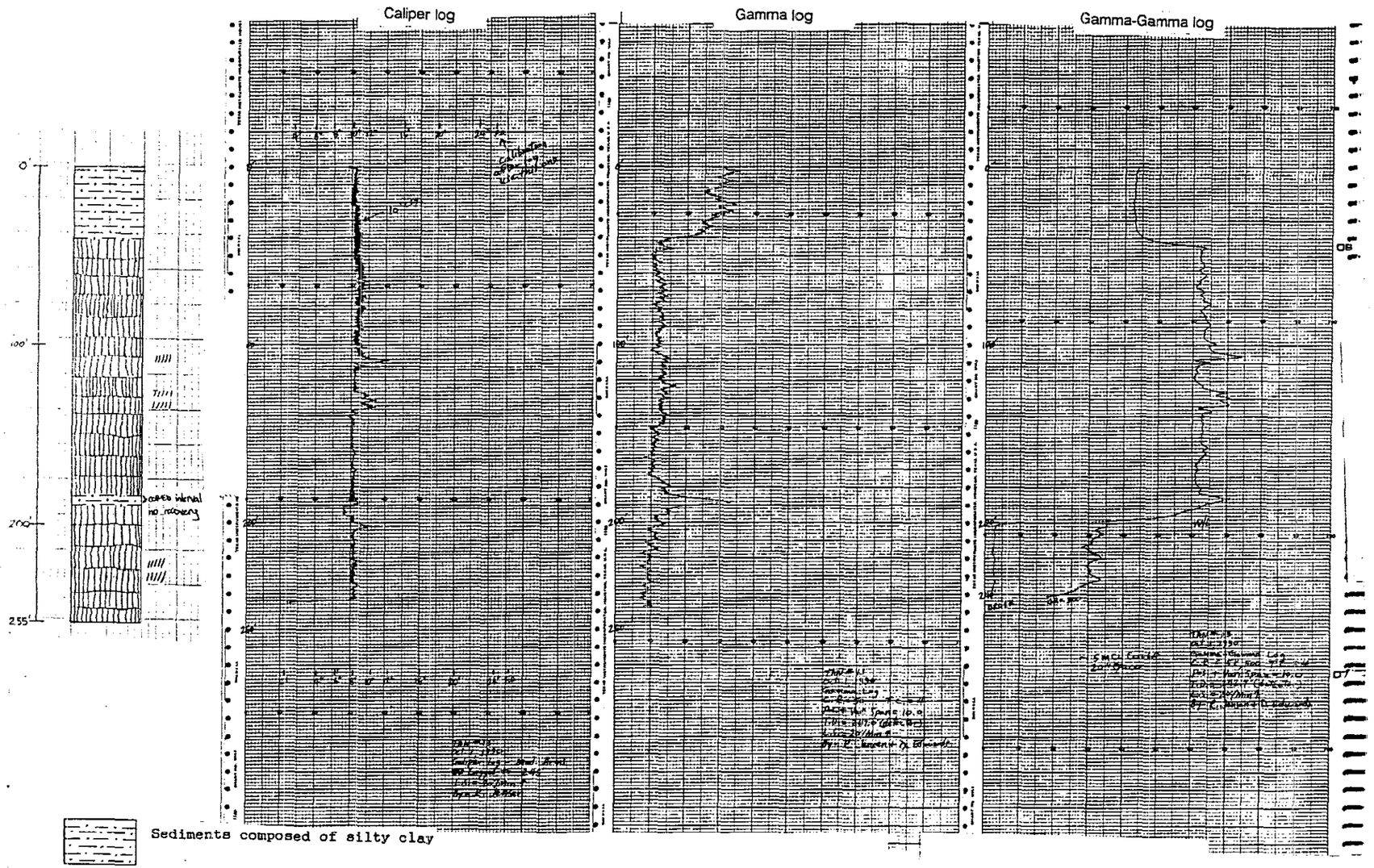
Sediments composed of silty clay

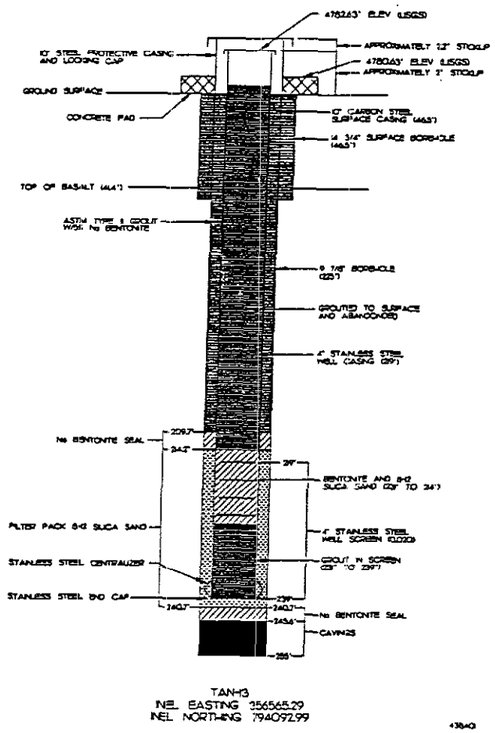
Basalt, dark gray to light gray dense to vesicular

//// Fracture zone

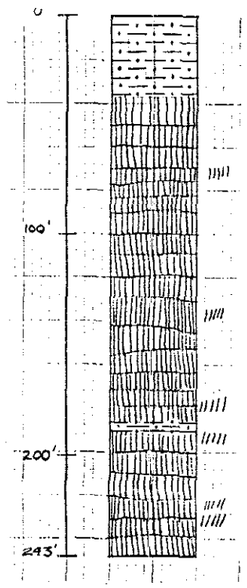
Vertical scale 1" = 50'

TAN-13


Caliper log
Gamma log
Gamma-Gamma log
0'
100'
200'
255'
cored interval
no recovery
Sediments composed of silty clay
Basalt, dark to light gray
dense to vesicular
Fracture zone


4782.63' ELEV (USGS)
APPROXIMATELY 12" STICKUP
4780.63' ELEV (USGS)
APPROXIMATELY 2" STICKUP
GROUND SURFACE
CONCRETE PAD
TOP OF BASALT (464')
ASTM TYPE I CIRCUIT WITH NO BENTONITE
GROUTED TO SURFACE AND ABANDONED
NO BENTONITE SEAL
BENTONITE AND 8-12 SILICA SAND (20' TO 24')
FILTER PACK 8-12 SILICA SAND
STAINLESS STEEL CENTRALIZER
STAINLESS STEEL END CAP
NO BENTONITE SEAL
CAVINGS
TAN-13
INEL EASTING 356565.29
INEL NORTHING 794092.99

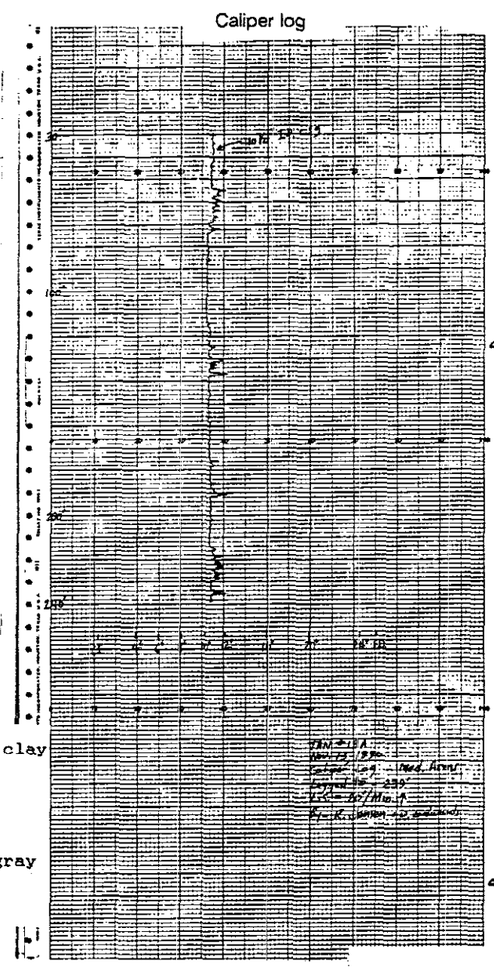
TAN-13A

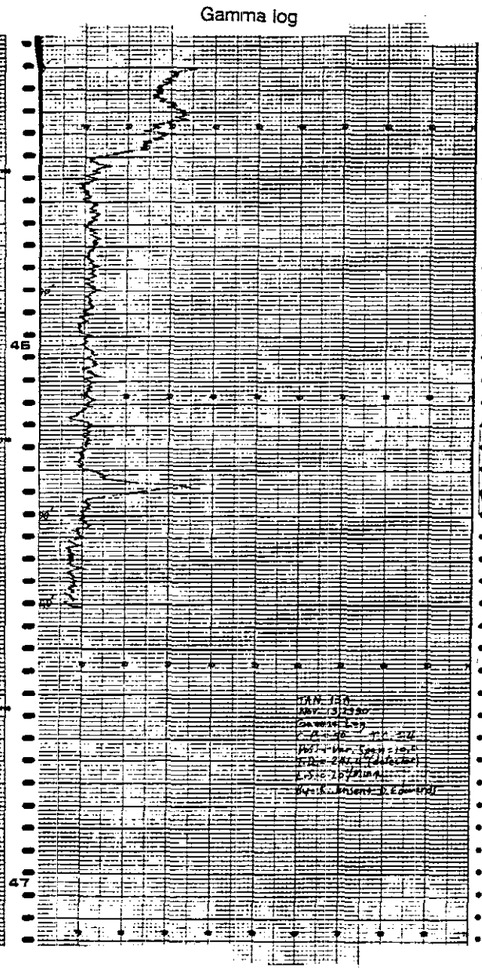


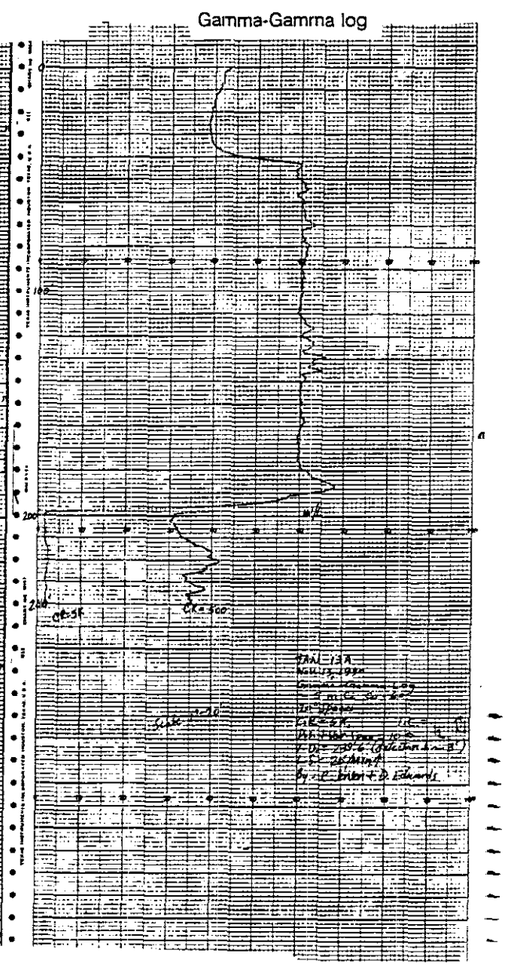
Vertical scale 1" = 50'

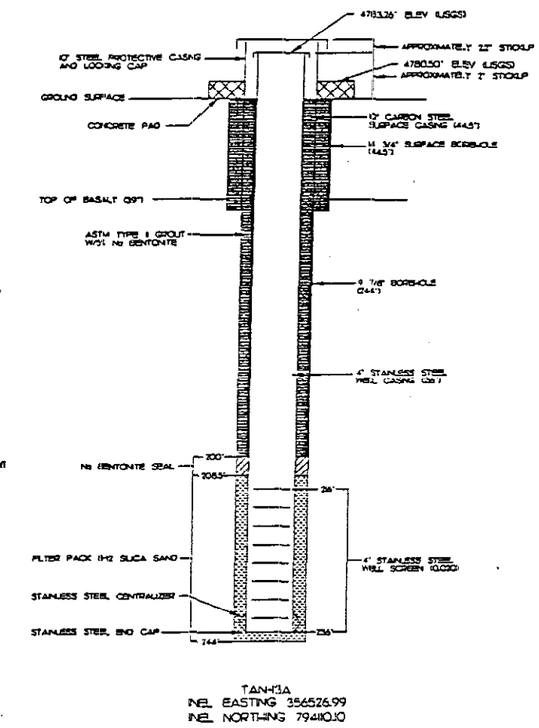
Sediments composed of silty clay

Basalt, dark gray to light gray dense to vesicular

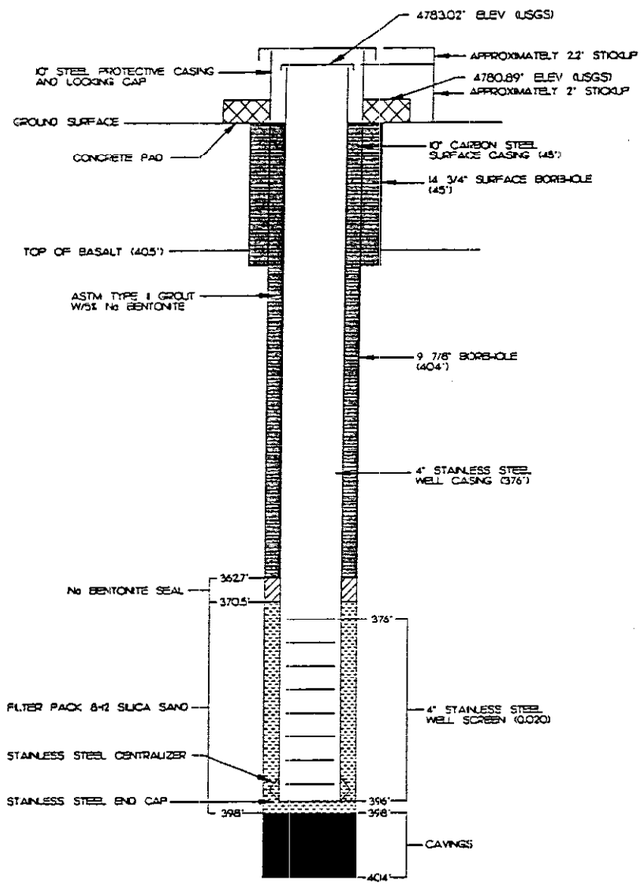




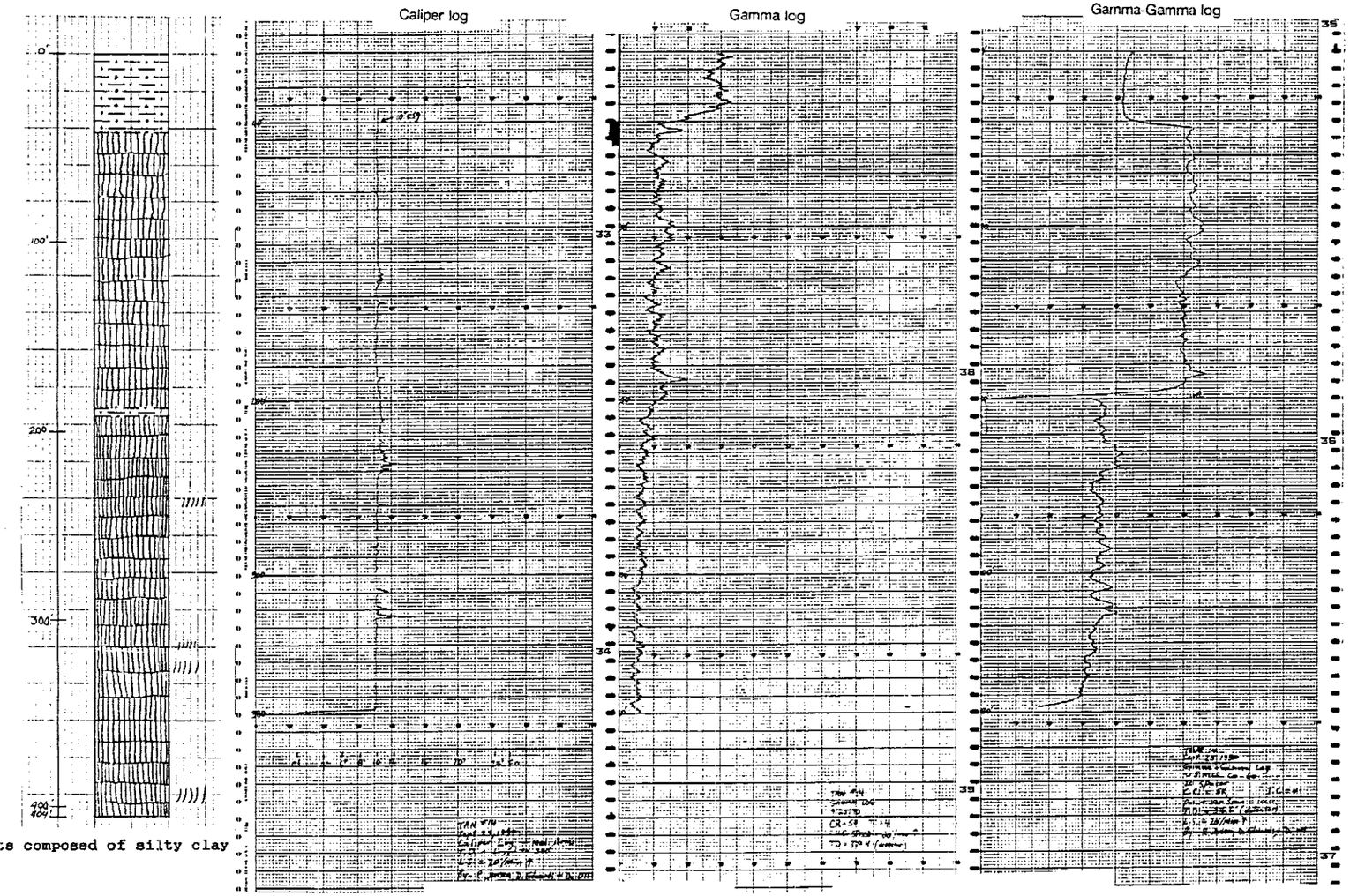




TAN-14



TAN-14
INEL EASTING 356551.71
INEL NORTHING 794052.43

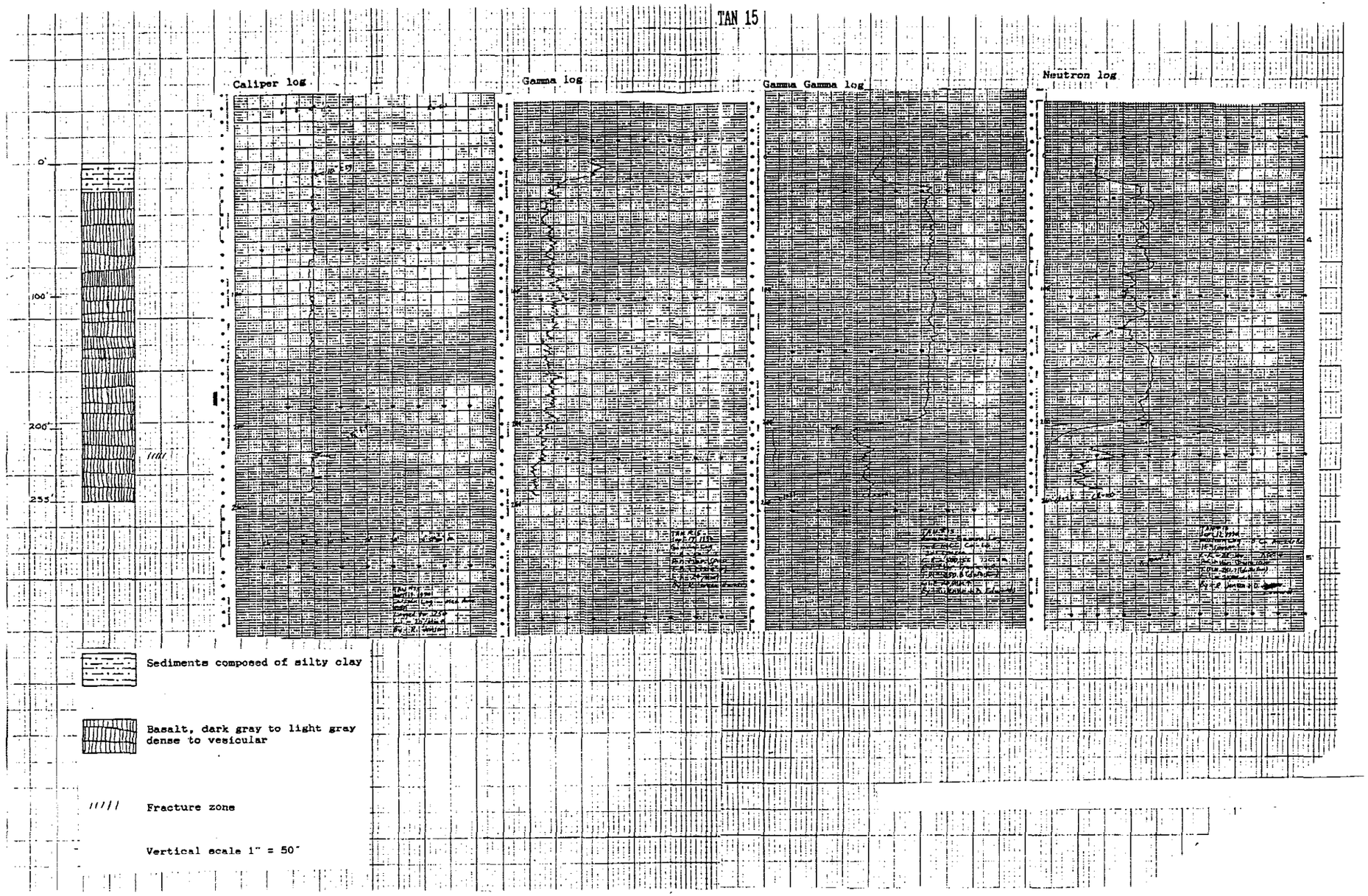


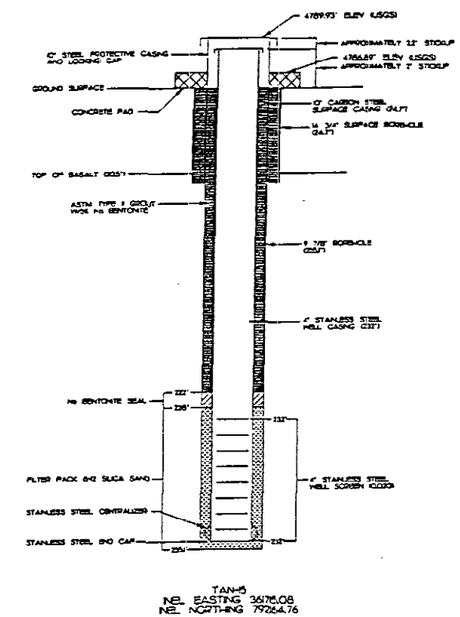
Sediments composed of silty clay

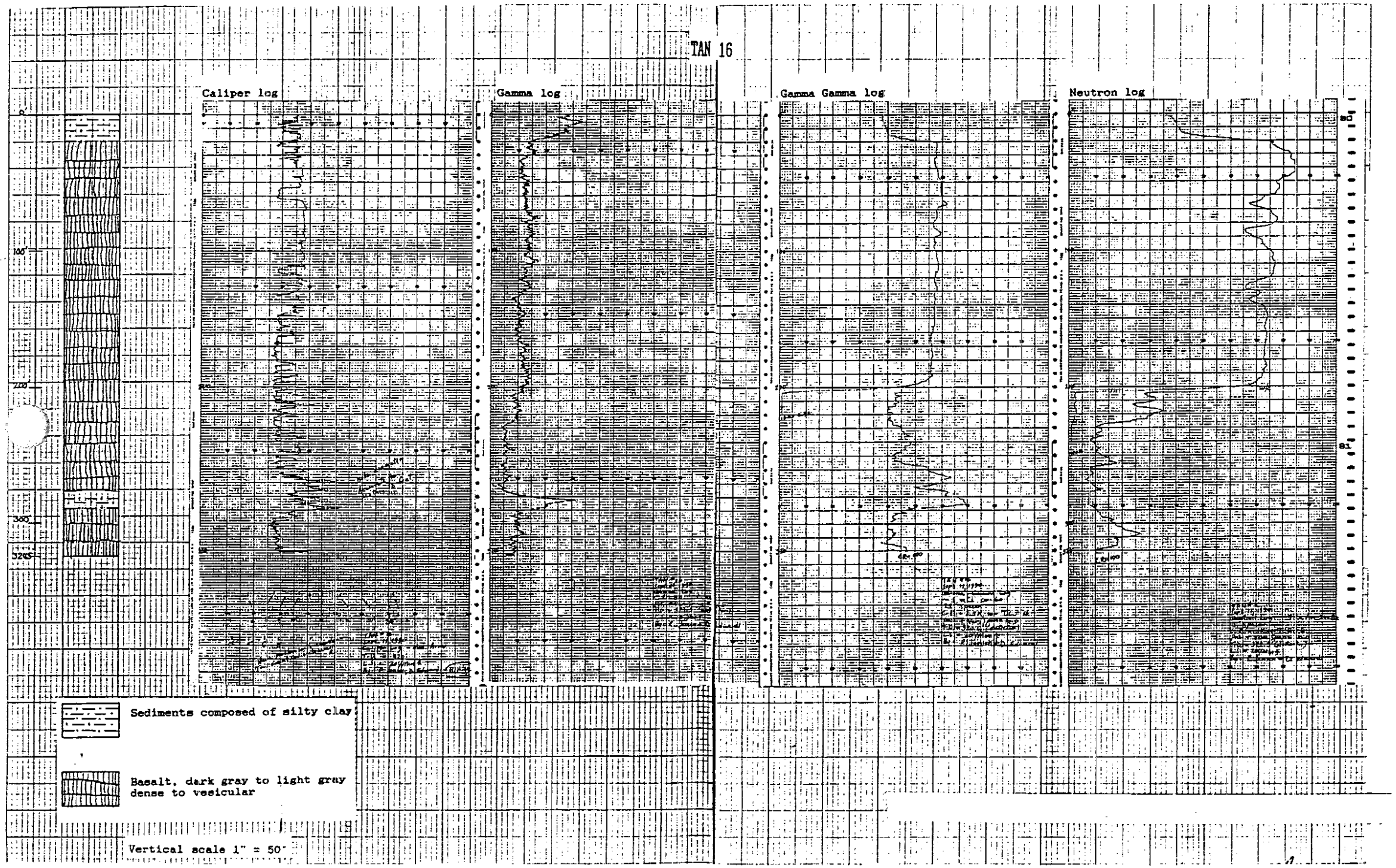
Basalt, dark gray to light gray dense to vesicular

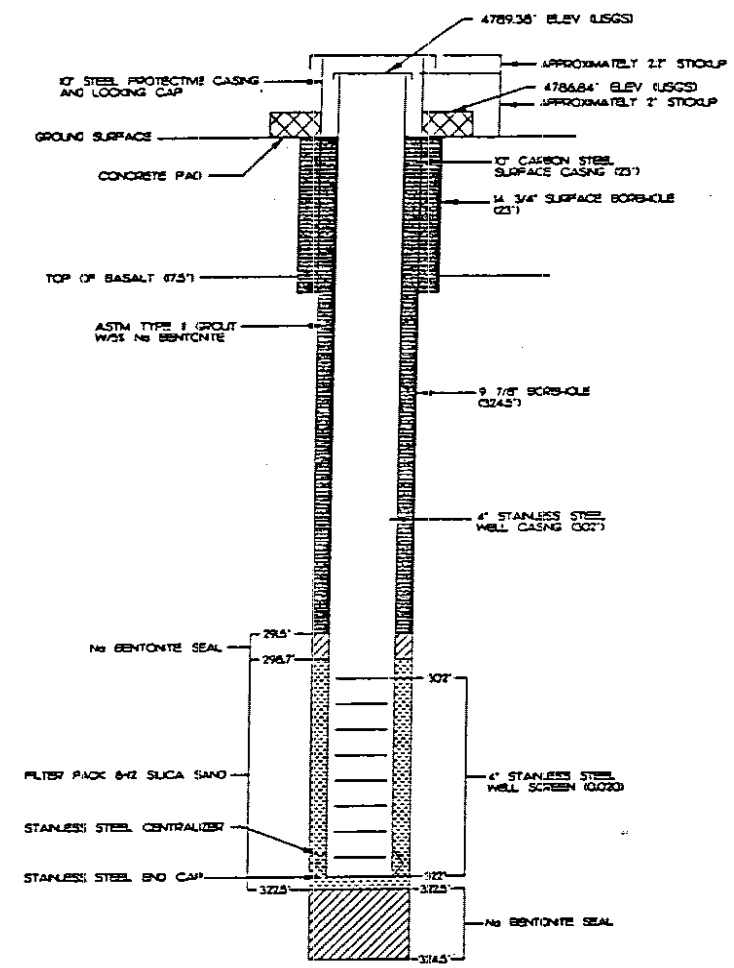
//// Fracture zone

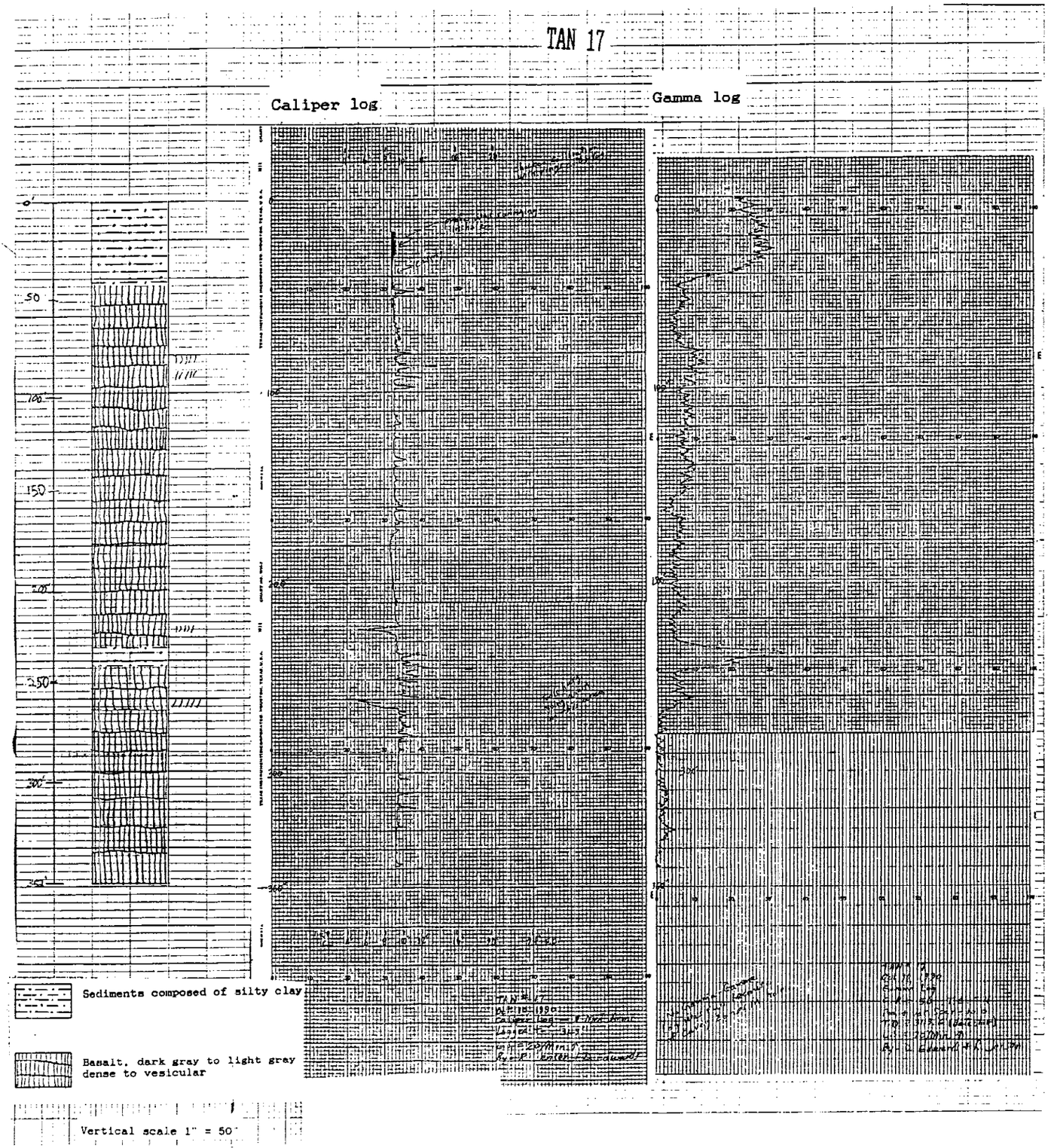
Vertical scale 1" = 50'

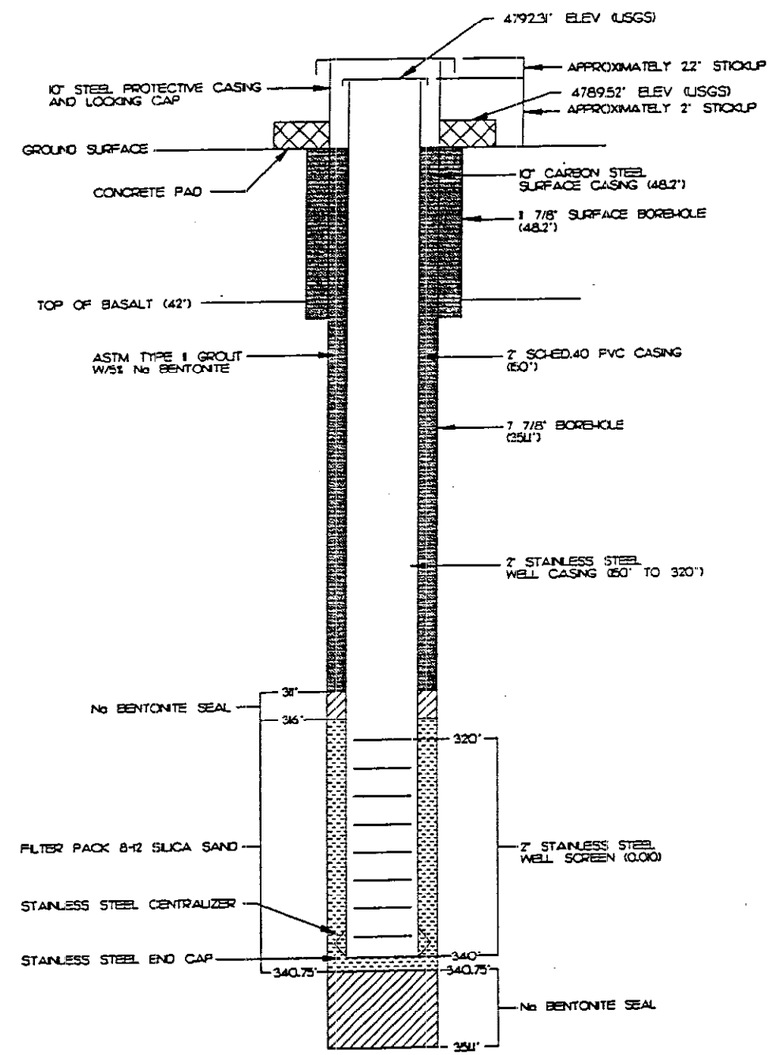

TAN 15
Caliper log
Gamma log
Gamma Gamma log
Neutron log
0'
100'
200'
255'
Sediments composed of silty clay
Basalt, dark gray to light gray dense to vesicular
Fracture zone
Vertical scale 1" = 50'


4789.93' (ELEV 6.5GS)
APPROXIMATELY 12' STICKUP
4786.89' (ELEV 6.5GS)
APPROXIMATELY 7' STICKUP
10" STEEL PROTECTIVE CASING W/O LOCKING CAP
GROUND SURFACE
CONCRETE PAD
10" CARBON STEEL SURFACE CASING (0-47')
14 3/4" SURFACE BOREHOLE (0-47')
TOP OF BASALT (203')
ASTM TYPE I GROUT MIX W/ BENTONITE
8 1/8" BOREHOLE (0-247')
4" STAINLESS STEEL WELL CASING (0-217')
W/ BENTONITE SEAL
222'
236'
132'
FILTER PACK 8/12 SILICA SAND
4" STAINLESS STEEL WELL SCREEN (0.020")
STAINLESS STEEL CENTRALIZER
STAINLESS STEEL END CAP
251'
252'
TAN-15
NEL EASTING 36176.08
NEL NORTHING 79264.76


TAN 16
Caliper log
Gamma log
Gamma Gamma log
Neutron log
100'
200'
300'
324.5'
80
81
Sediments composed of silty clay
Basalt, dark gray to light gray dense to vesicular
Vertical scale 1" = 50'


4789.38' ELEV (USGS)
APPROXIMATELY 2.1' STICKUP
4786.84' ELEV (USGS)
APPROXIMATELY 2' STICKUP
12" STEEL PROTECTIVE CASING AND LOCKING CAP
GROUND SURFACE
CONCRETE PAD
12" CARBON STEEL SURFACE CASING (23')
14 3/4" SURFACE BOREHOLE (23')
TOP OF BASALT (7.5')
ASTM TYPE I GROUT W/5% NO BENTONITE
9 7/8" BOREHOLE (324.5')
4" STAINLESS STEEL WELL CASING (302')
NO BENTONITE SEAL
29.5'
29.7'
302'
FILTER PACK 8/12 SILICA SAND
4" STAINLESS STEEL WELL SCREEN (10/020)
STAINLESS STEEL CENTRALIZER
STAINLESS STEEL END CAP
312'
322.5'
NO BENTONITE SEAL
324.5'
TAN-16
INEL EASTING 361715.85
INEL NORTHING 79219.66
438403

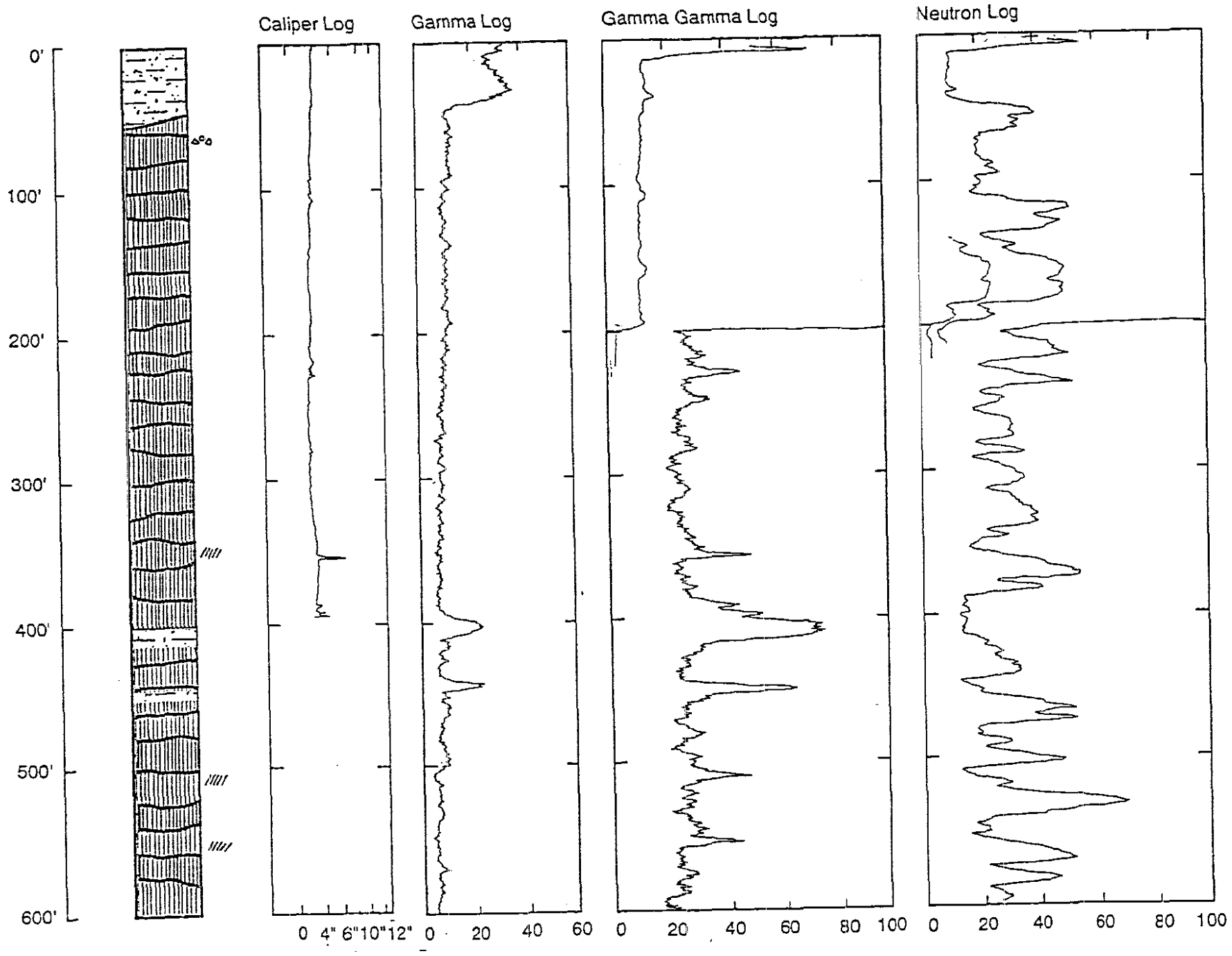




TAN-17
INEL EASTING 358111.71
INEL NORTHING 793495.98

43840

TAN Corehole 1 Stratigraphic Sequence

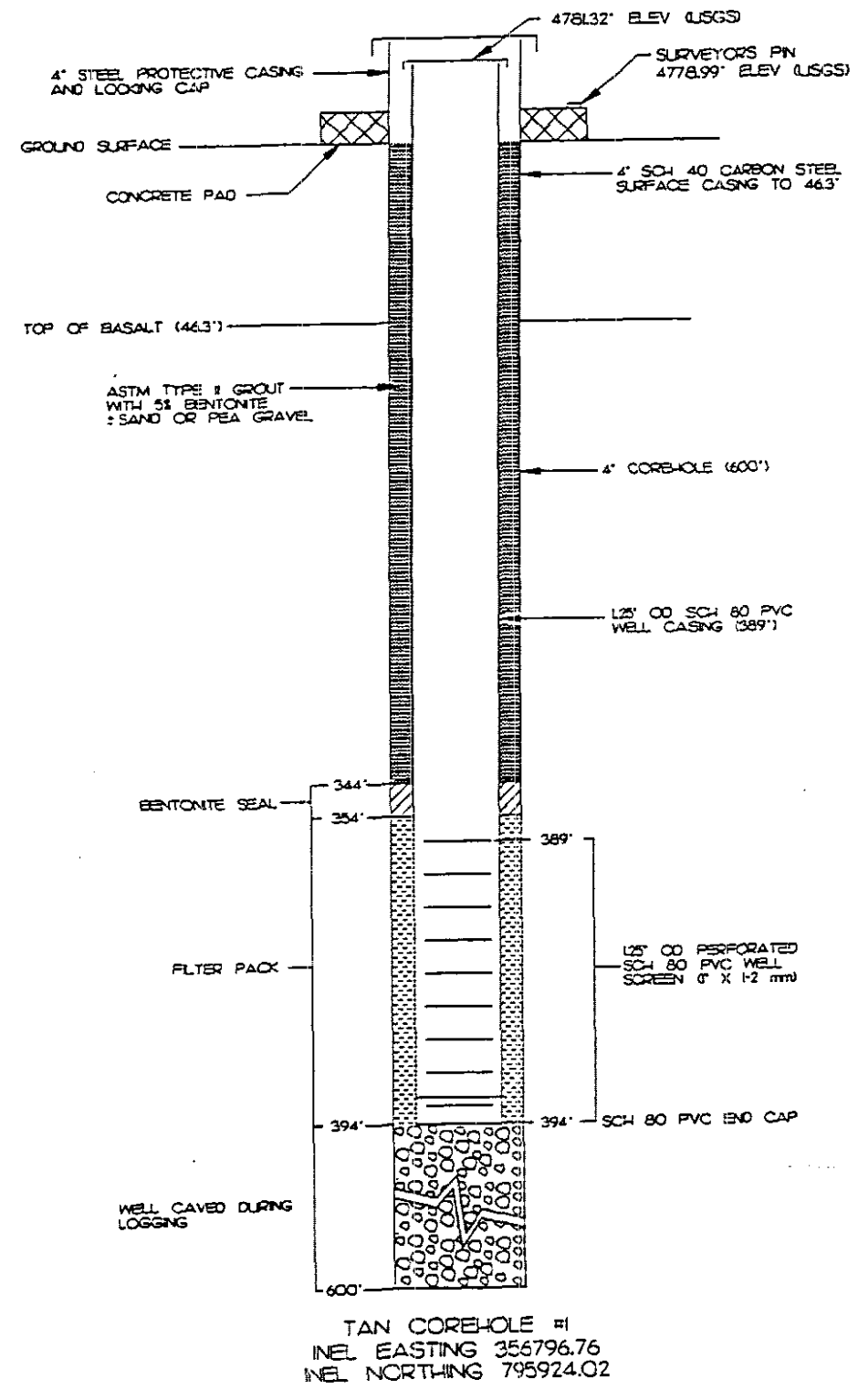


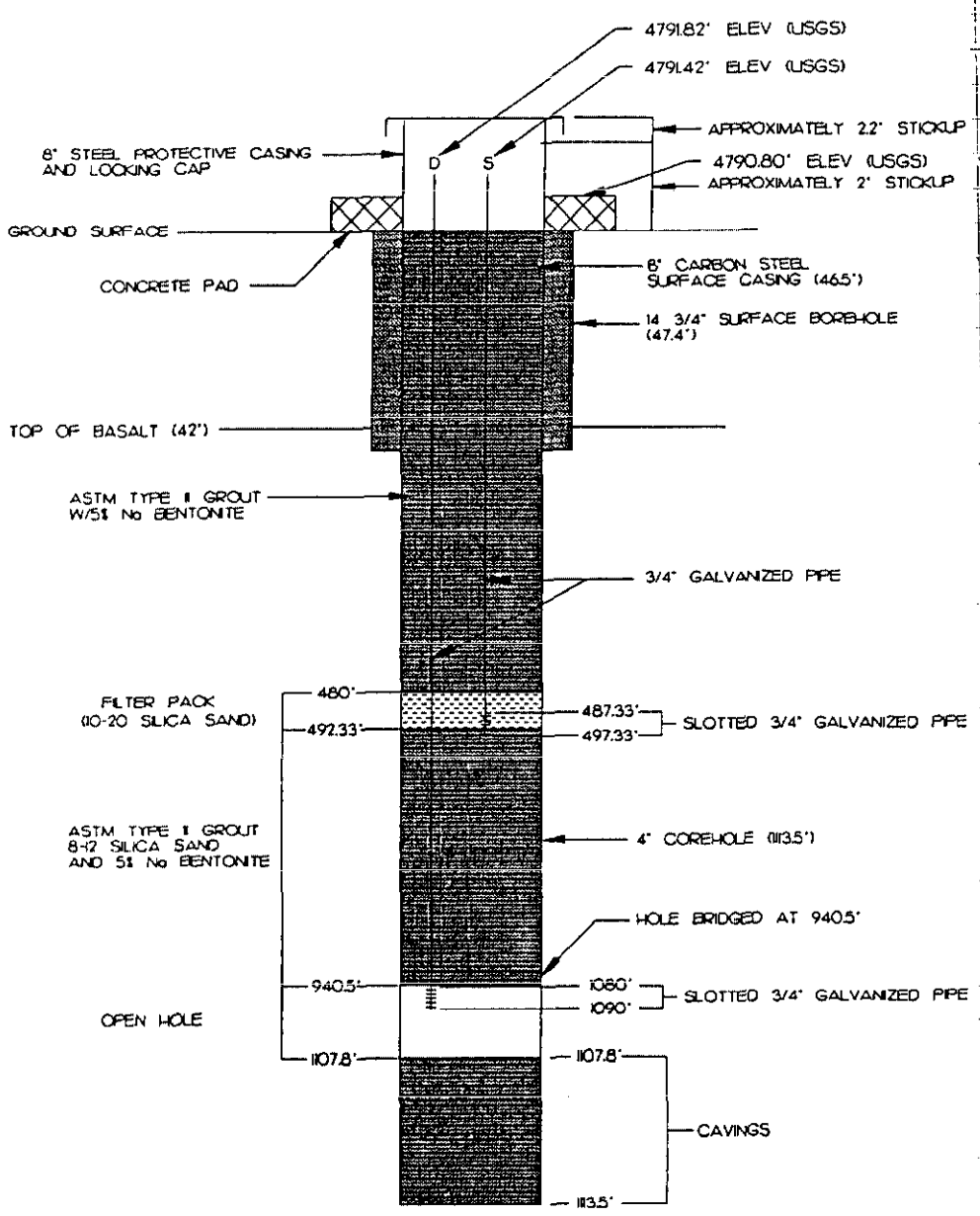
Sediments composed of silty clay

Dark gray, dense, vesicular basalt

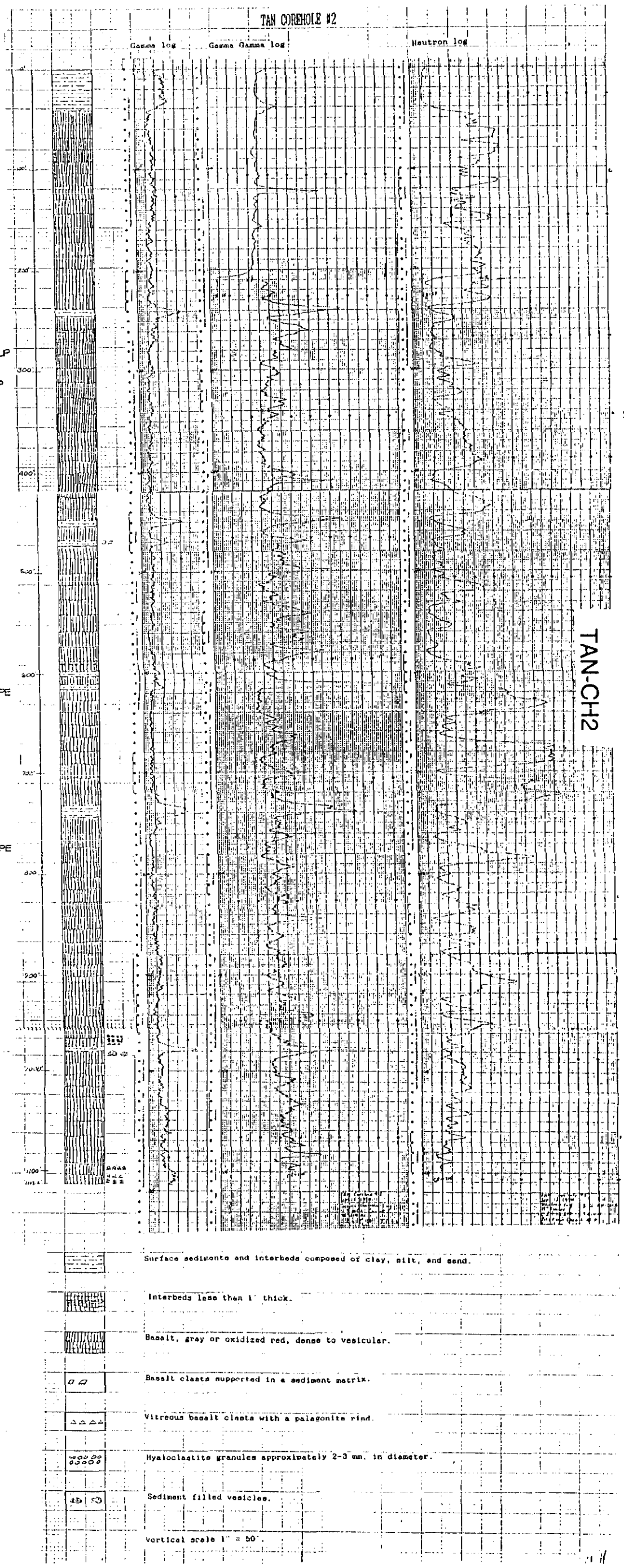
Brecciation

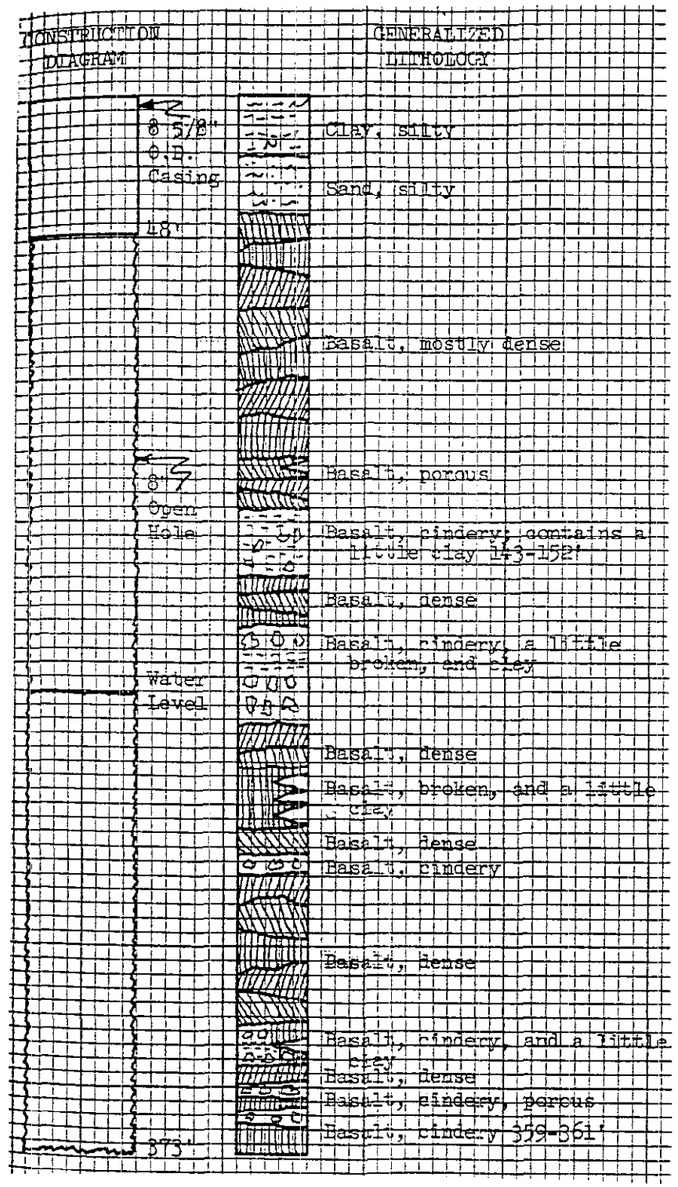
Possible fracture zone

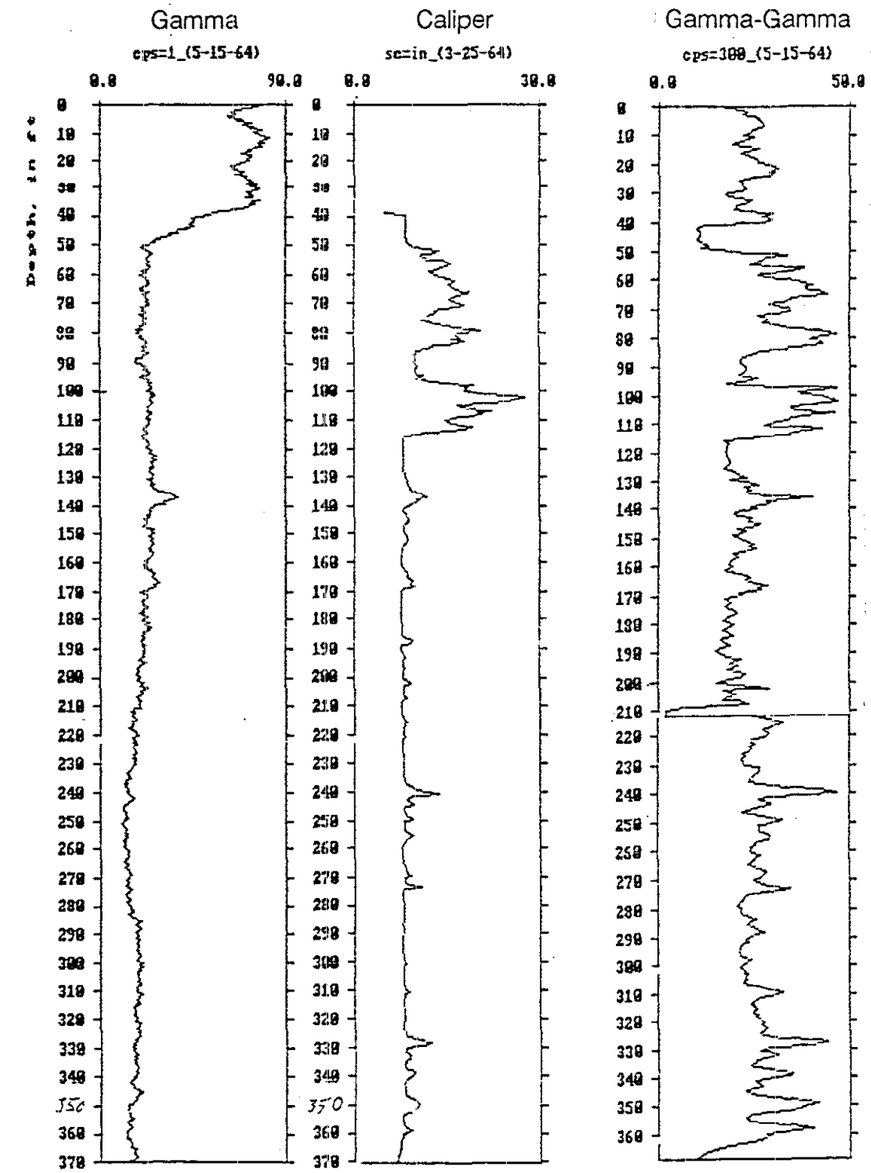




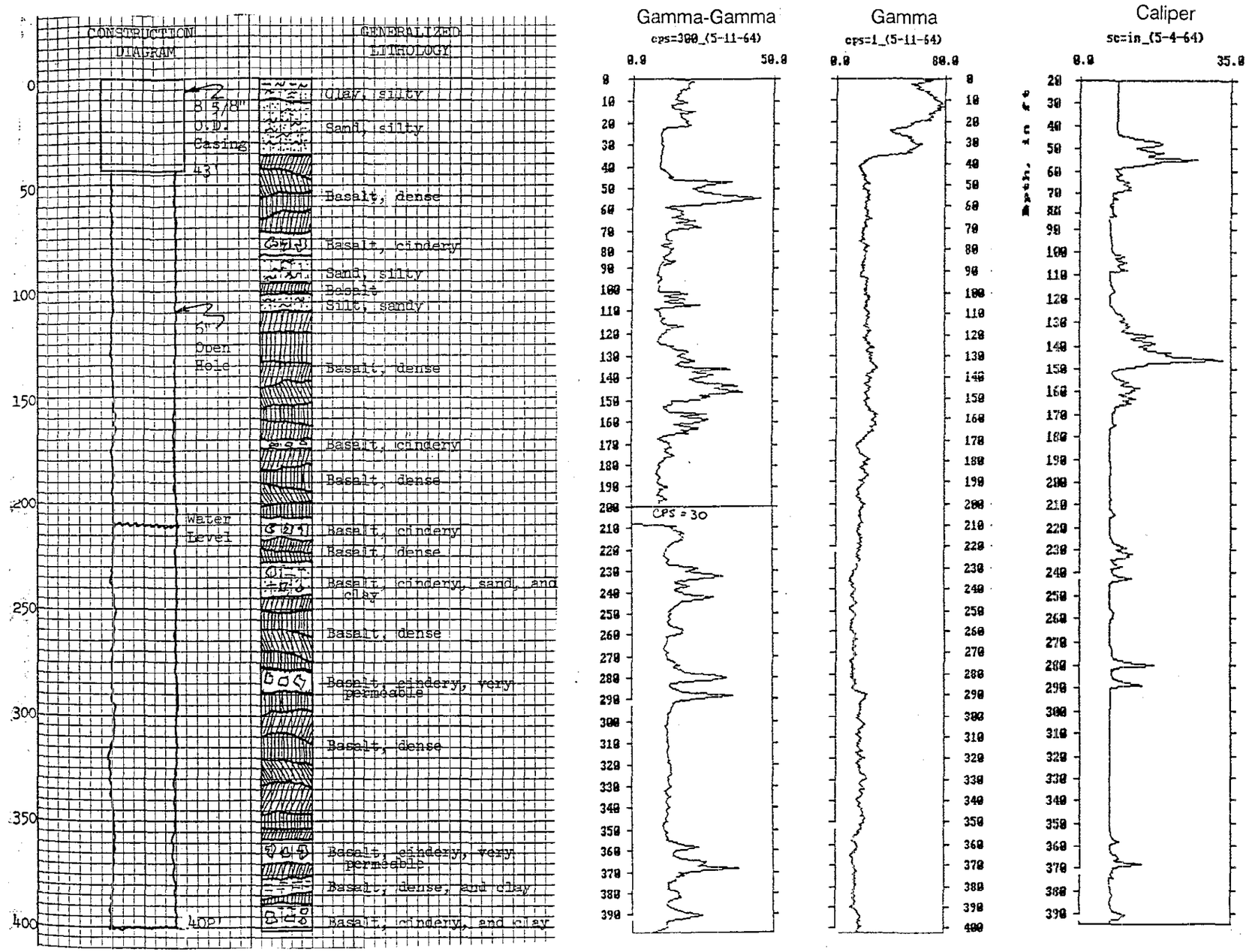
TAN COREHOLE #2
INEL EASTING 35851.46
INEL NORTHING 793455.80

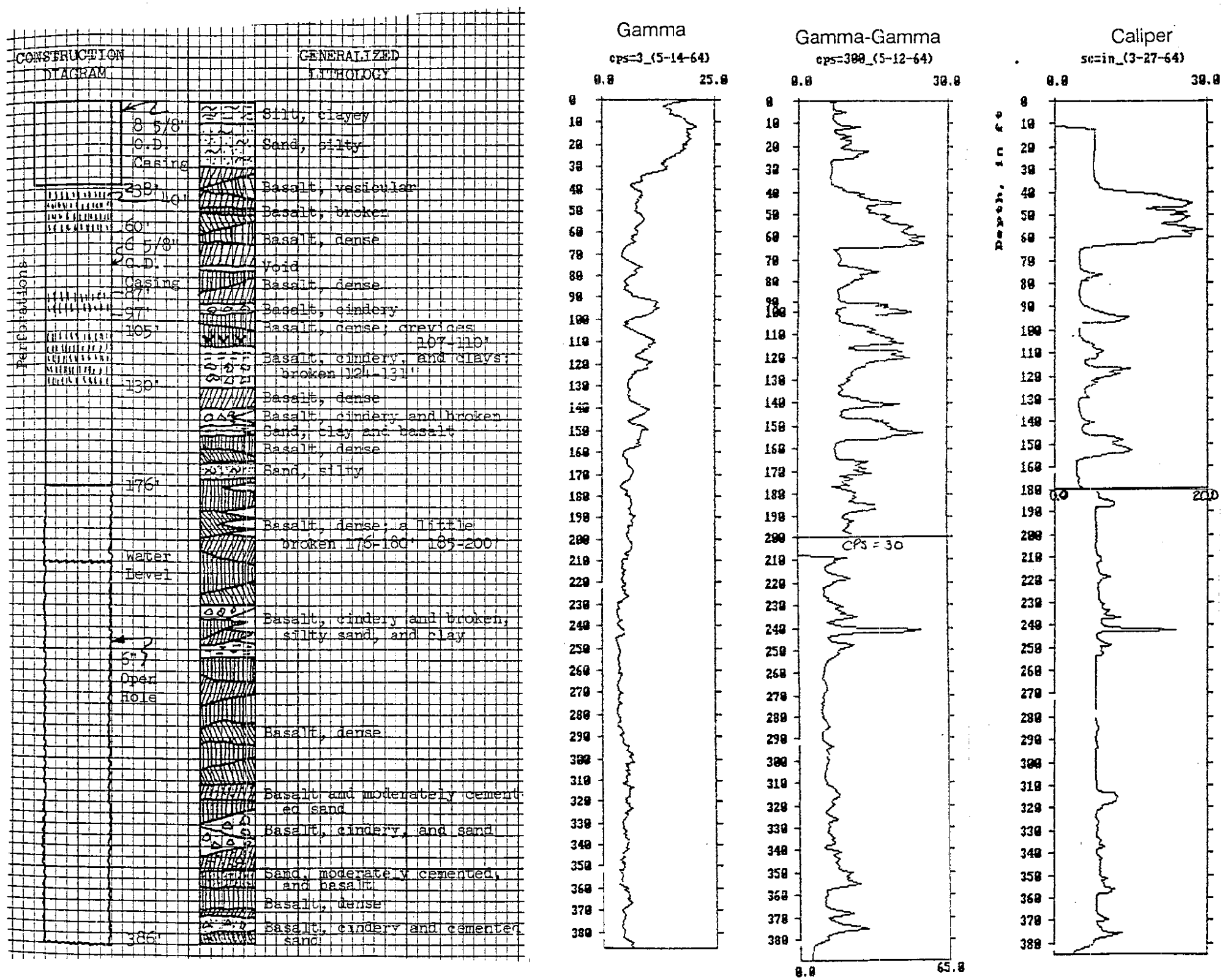


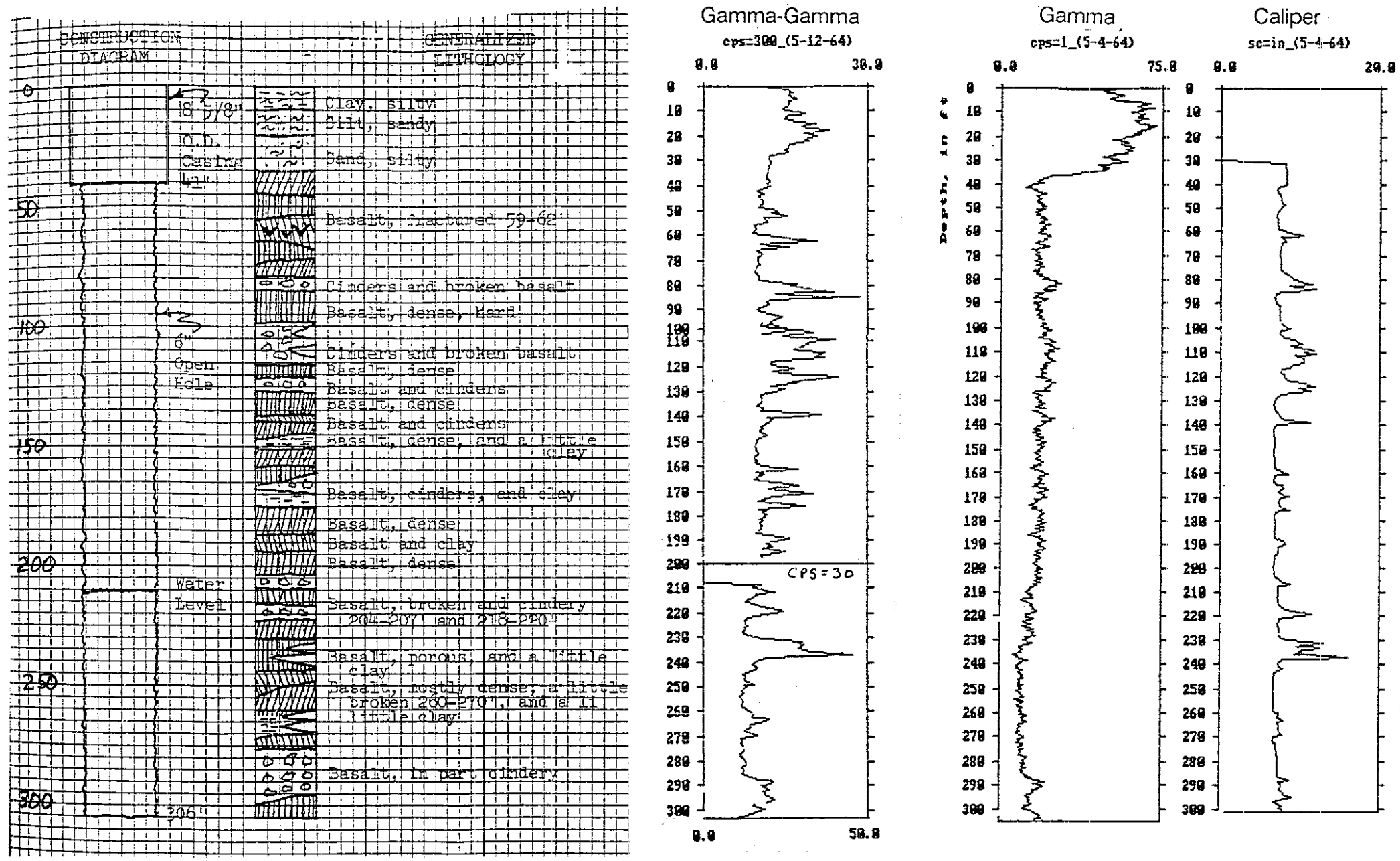

CONSTRUCTION DIAGRAM
GENERALIZED LITHOLOGY
8 5/8" O.D. Casing
48'
Clay, silty
Sand, silty
Basalt, mostly dense
8"
Open Hole
Basalt, porous
Basalt, cindery; contains a little clay 143-152'
Basalt, dense
Basalt, cindery, a little broken, and clay
Water Level
Basalt, dense
Basalt, broken, and a little clay
Basalt, dense
Basalt, cindery
Basalt, dense
Basalt, cindery, and a little clay
Basalt, dense
Basalt, cindery, porous
Basalt, cindery 359-361'
373'


Gamma
cps=1_(5-15-64)
0.0
90.0
Caliper
se=in_(3-25-64)
0.0
30.0
Gamma-Gamma
cps=300_(5-15-64)
0.0
50.0
Depth, in ft

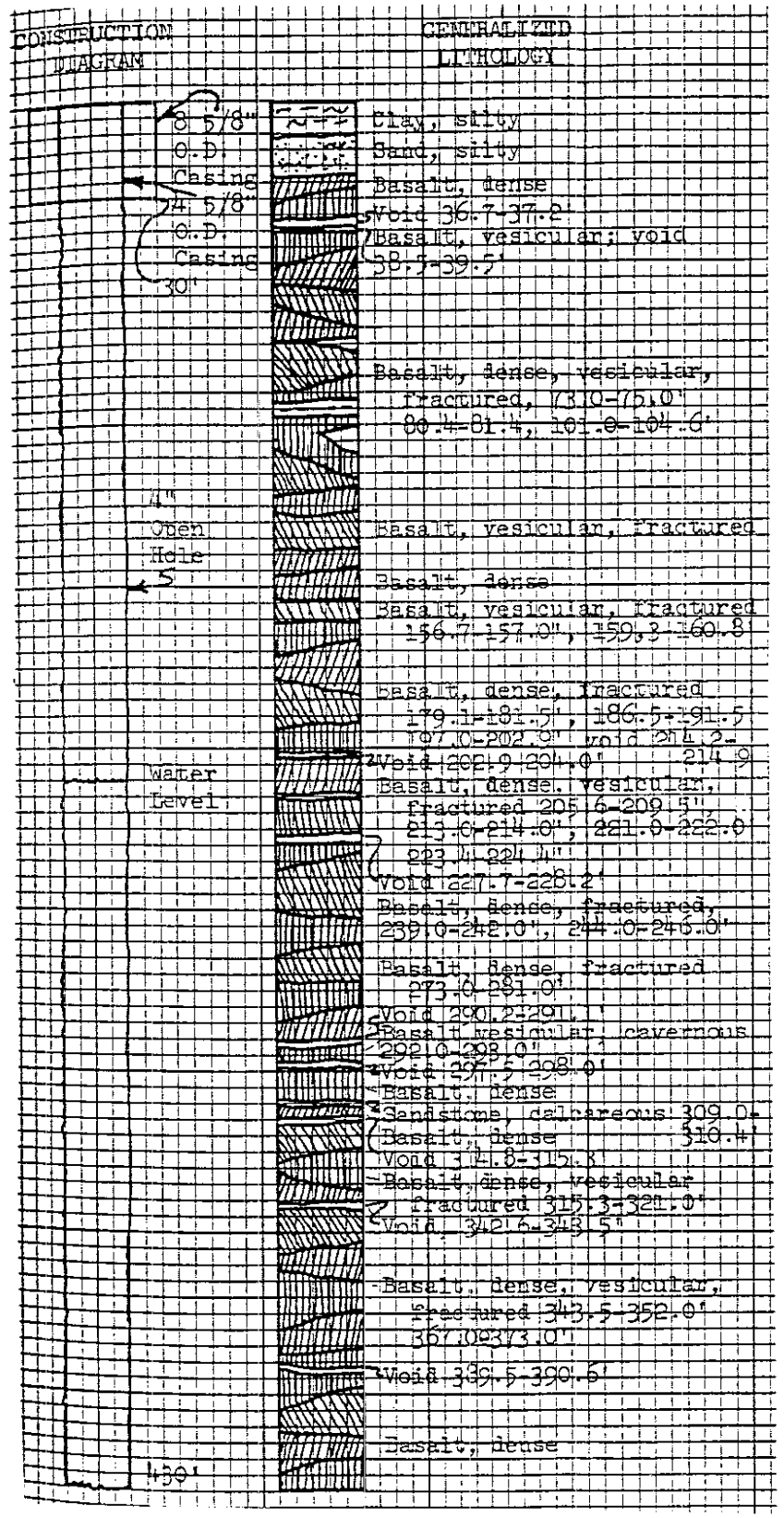
GIN-2

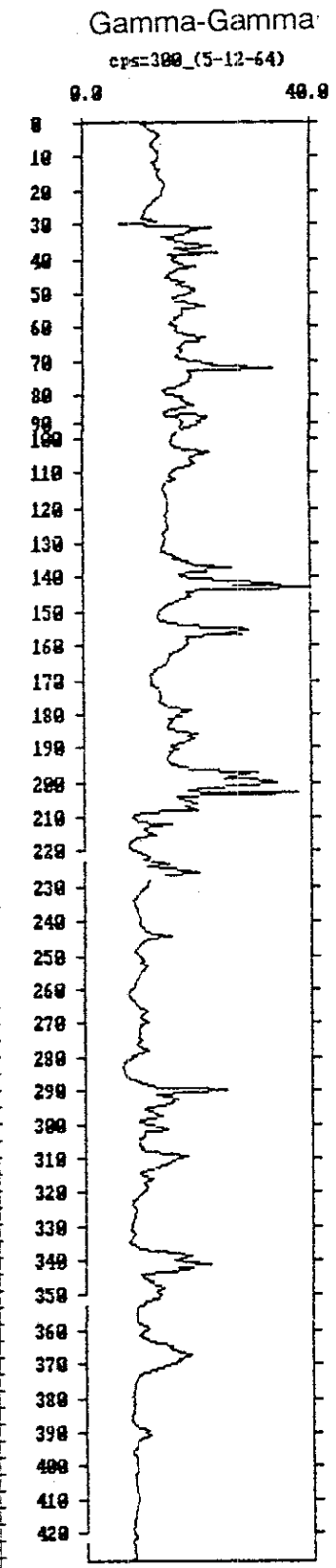

CONSTRUCTION DIAGRAM
GENERALIZED LITHOLOGY
8 5/8" O.D. Casing
43'
6" Open Hole
Water Level
400'
Clay, silty
Sand, silty
Basalt, dense
Basalt, cindery
Sand, silty
Basalt
Silt, sandy
Basalt, dense
Basalt, cindery
Basalt, dense
Basalt, cindery
Basalt, dense
Basalt, cindery, sand, and clay
Basalt, dense
Basalt, cindery, very permeable
Basalt, dense
Basalt, cindery, very permeable
Basalt, dense, and clay
Basalt, cindery, and clay
Gamma-Gamma
cps=300_(5-11-64)
0.0
50.0
CPS = 30
Gamma
cps=1_(5-11-64)
0.0
80.0
Caliper
sc=in_(5-4-64)
0.0
35.0
Depth, in ft

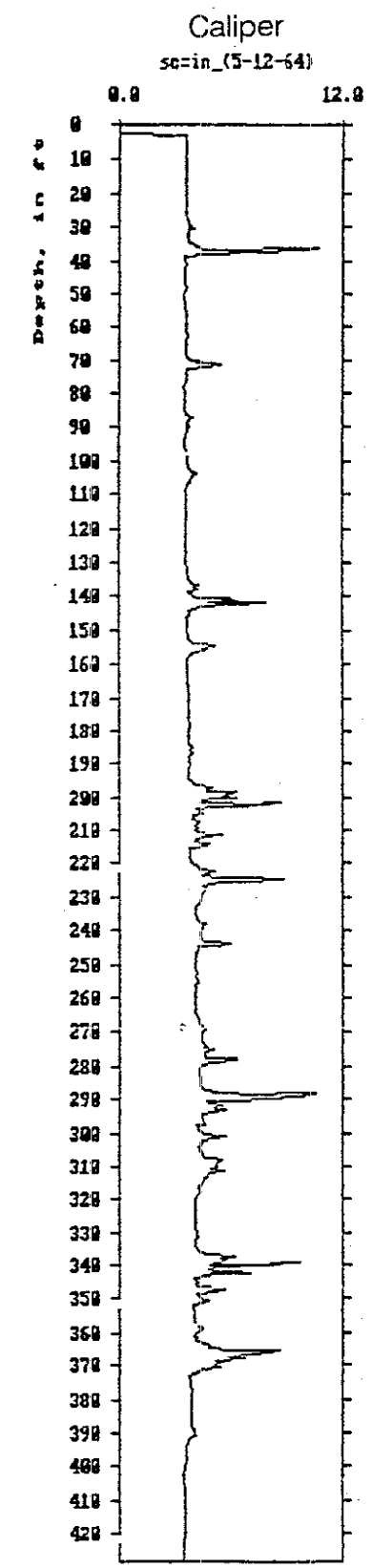

CONSTRUCTION DIAGRAM
GENERALIZED LITHOLOGY
8 5/8" O.D. Casing
38'
40'
60'
6 5/8" O.D. Casing
87'
97'
105'
130'
176'
Water Level
5" Open Hole
386'
Perforations
Silt, clayey
Sand, silty
Basalt, vesicular
Basalt, broken
Basalt, dense
Void
Basalt, dense
Basalt, cindery
Basalt, dense; crevices 107-110'
Basalt, cindery, and clays; broken 124-131'
Basalt, dense
Basalt, cindery and broken
Sand, clay and basalt
Basalt, dense
Sand, silty
Basalt, dense; a little broken 176-180' 185-200'
Basalt, cindery and broken, silty sand, and clay
Basalt, dense
Basalt and moderately cemented sand
Basalt, cindery, and sand
Sand, moderately cemented, and basalt
Basalt, dense
Basalt, cindery and cemented sand
Gamma
cps=3_(5-14-64)
0.0
25.0
Gamma-Gamma
cps=300_(5-12-64)
0.0
30.0
CPS = 30
65.0
Caliper
sc=in_(3-27-64)
0.0
30.0
0.0
20.0
Depth, in ft

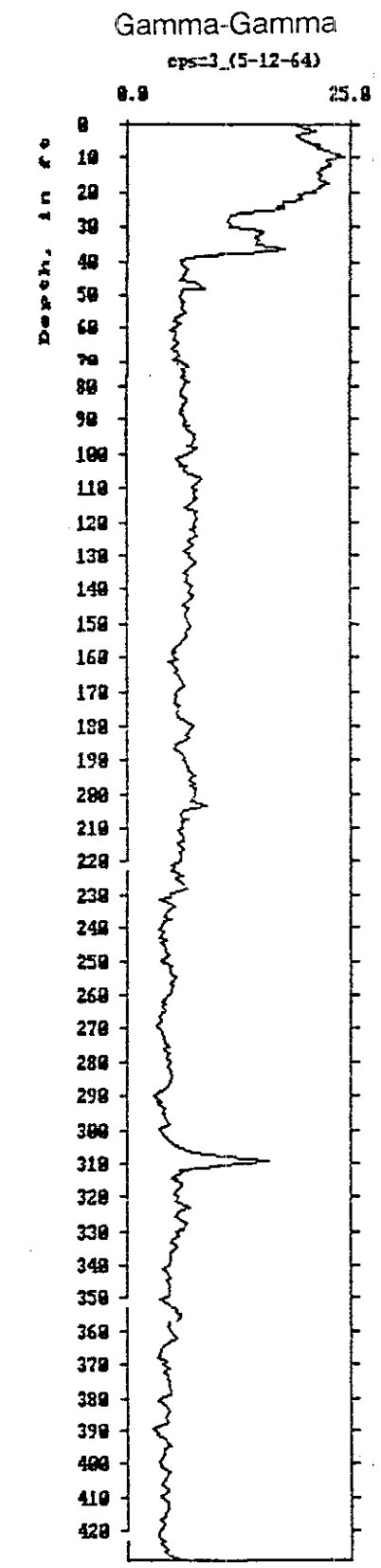

CONSTRUCTION DIAGRAM
GENERALIZED LITHOLOGY
8 5/8" O.D. Casing 41'
Open Hole
Water Level
206'
Clay, silty
Silt, sandy
Sand, silty
Basalt, fractured 59-62'
Cinders and broken basalt
Basalt, dense, hard
Cinders and broken basalt
Basalt, dense
Basalt and cinders
Basalt, dense
Basalt and cinders
Basalt, dense, and a little clay
Basalt, cinders, and clay
Basalt, dense
Basalt and clay
Basalt, dense
Basalt, broken and cindery 204-207' and 218-220'
Basalt, porous, and a little clay
Basalt, mostly dense, a little broken 260-270', and a li little clay
Basalt, in part cindery
Gamma-Gamma
cps=300_(5-12-64)
CPS=30
Gamma
cps=1_(5-4-64)
Caliper
sc=in_(5-4-64)
Depth, in ft

GIN-5

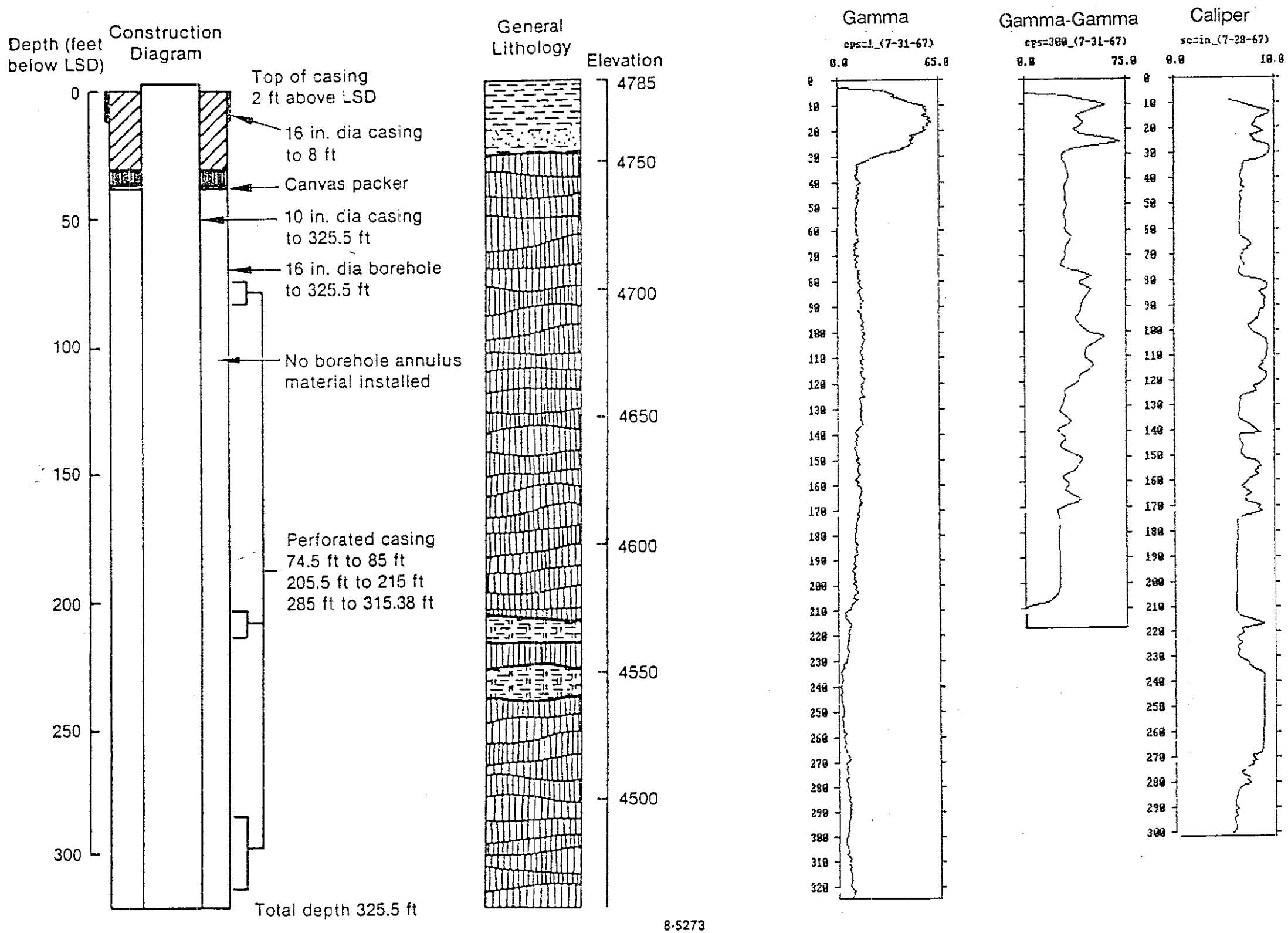

CONSTRUCTION DIAGRAM
CENTRALIZED LITHOLOGY
8 5/8" O.D. Casing
7 5/8" O.D. Casing 30'
4" Open Hole
Water Level
Clay, silty
Sand, silty
Basalt, dense
Void 36.7-37.2'
Basalt, vesicular; void 38.7-39.7'
Basalt, dense, vesicular, fractured, 73.0-76.0' 80.4-81.4, 101.0-104.6'
Basalt, vesicular, fractured
Basalt, dense
Basalt, vesicular, fractured 156.7-157.0', 159.3-160.8'
Basalt, dense, fractured 179.1-181.5', 186.5-191.5' 197.0-202.0' void 204.2-214.9
Void 208.9-204.0'
Basalt, dense, vesicular, fractured 205.6-209.5', 213.0-214.0', 221.0-222.0 223.4-224.4'
Void 227.7-228.2'
Basalt, dense, fractured, 239.0-242.0', 244.0-246.0'
Basalt, dense, fractured 273.0-281.0'
Void 290.2-291.
Basalt vesicular, cavernous 292.0-298.0'
Void 297.5-298.0'
Basalt, dense
Sandstone, calcareous 309.0-310.4'
Basalt, dense
Void 314.8-315.3
Basalt, dense, vesicular fractured 315.3-321.0'
Void 342.6-343.5'
Basalt, dense, vesicular, fractured 343.5-352.0' 367.0-373.0'
Void 389.5-390.5'
Basalt, dense
430'

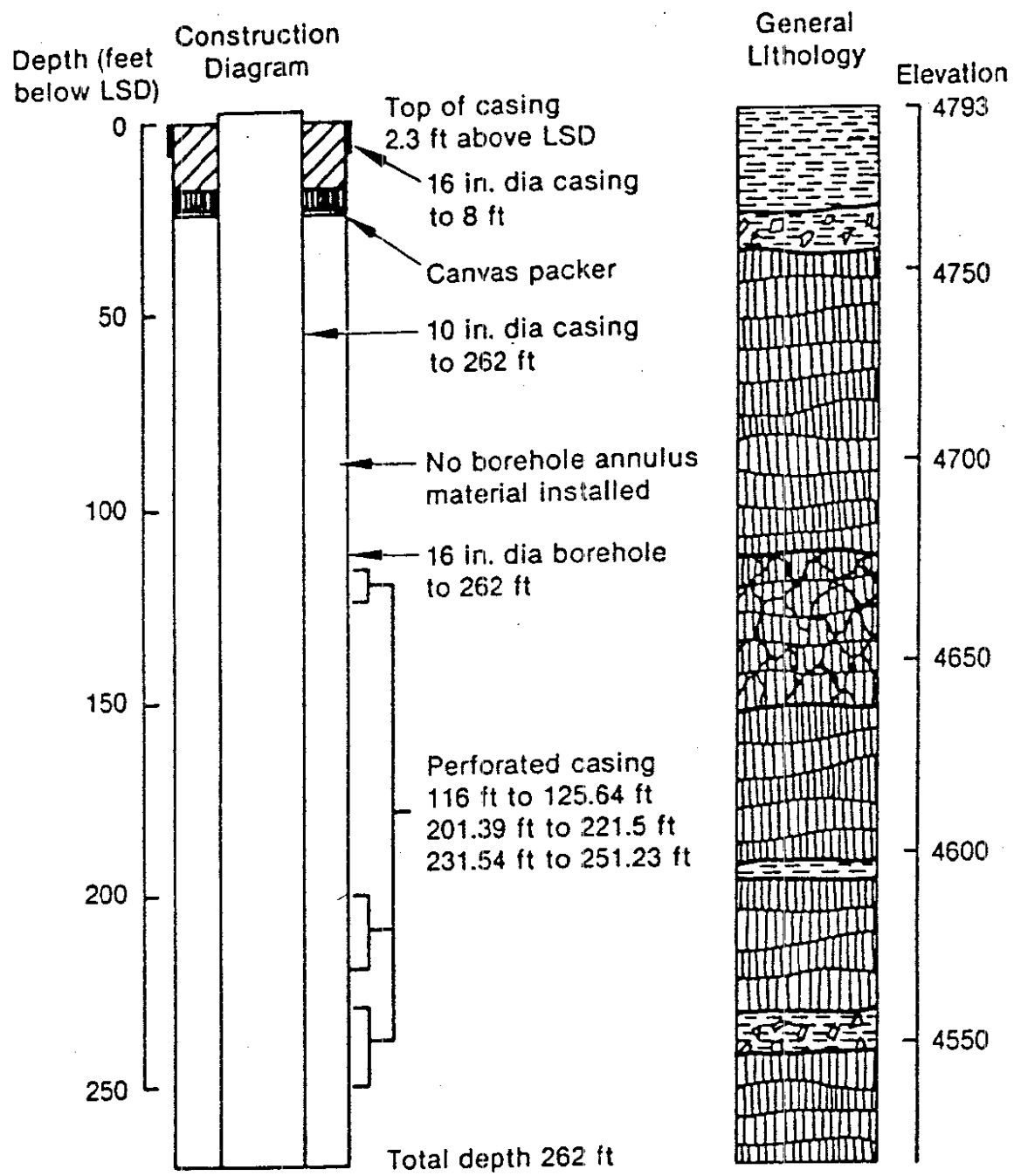

Gamma-Gamma
cps=300_(5-12-64)
0.0
40.0

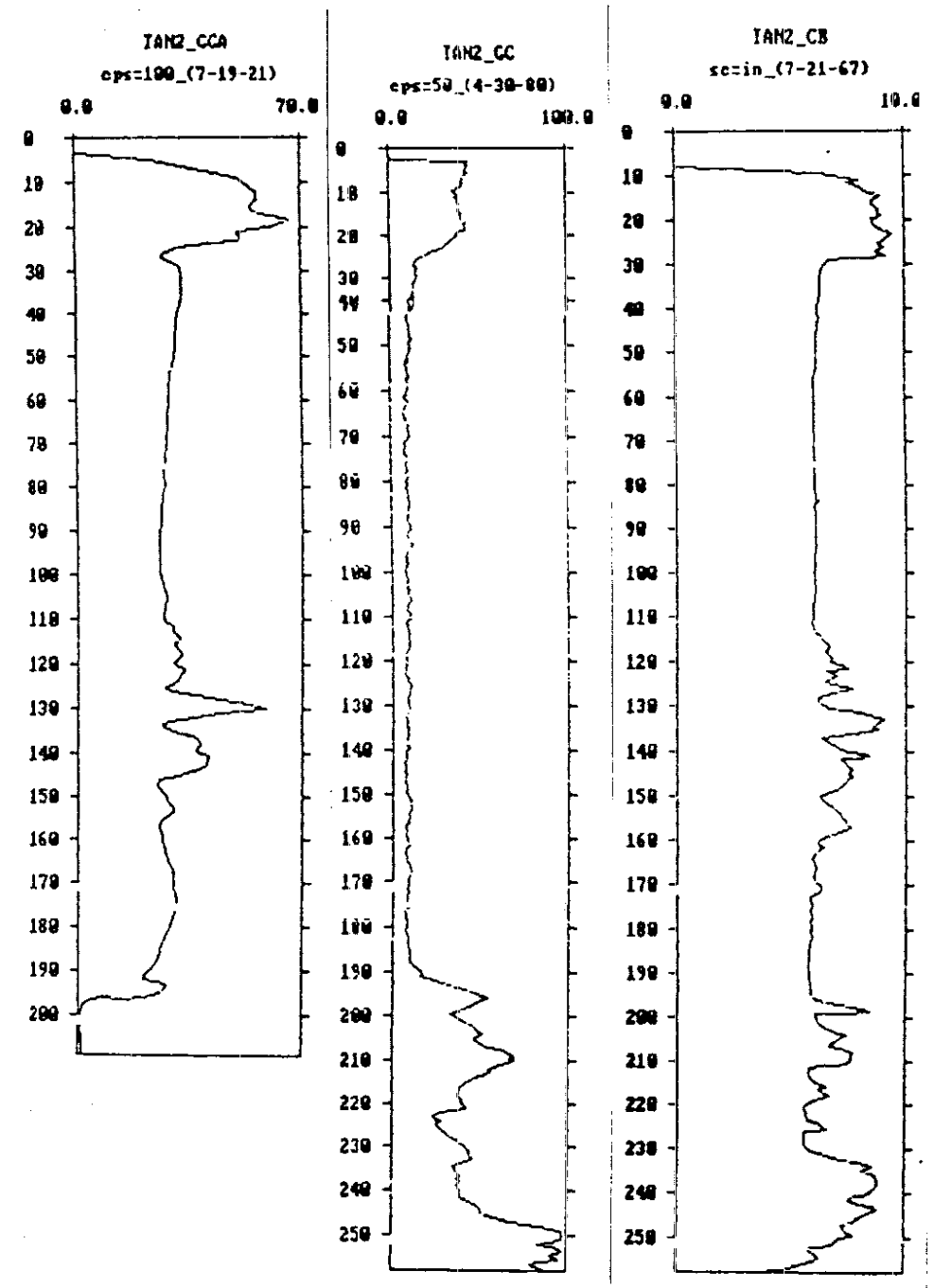

Caliper
sc=in_(5-12-64)
0.0
12.0
Depth, in ft


Gamma-Gamma
cps=3_(5-12-64)
0.0
25.0
Depth, in ft

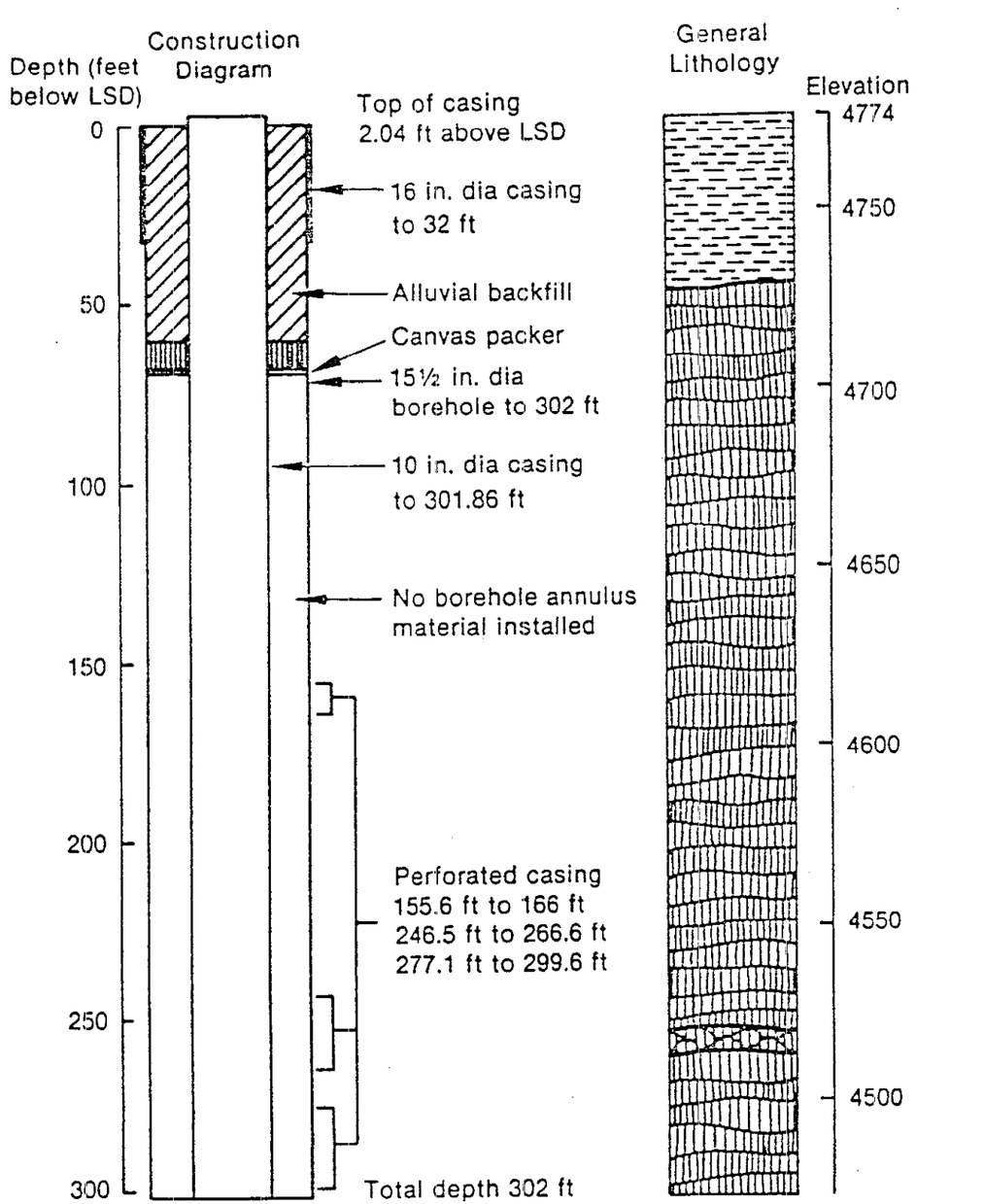
TAN-DISP 1

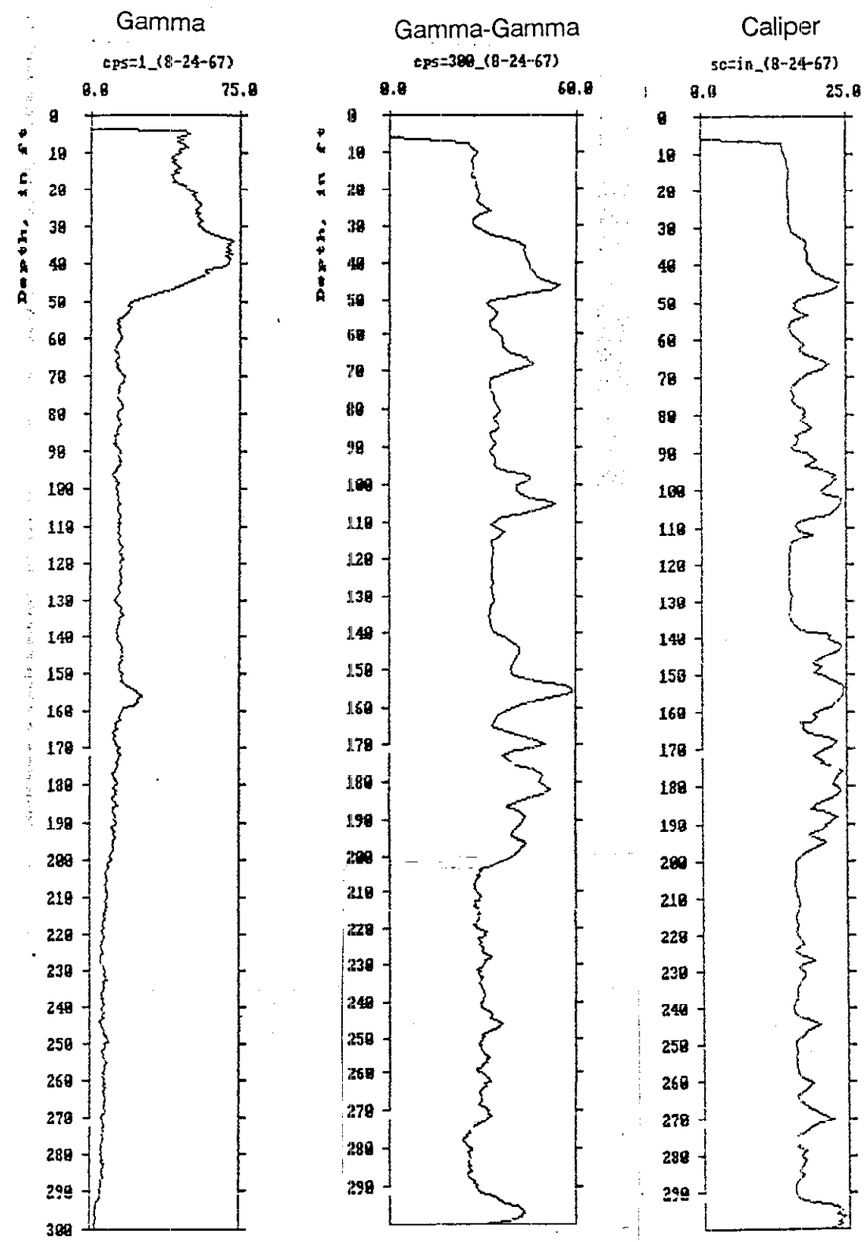

Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
Top of casing 2 ft above LSD
16 in. dia casing to 8 ft
Canvas packer
10 in. dia casing to 325.5 ft
16 in. dia borehole to 325.5 ft
No borehole annulus material installed
Perforated casing
74.5 ft to 85 ft
205.5 ft to 215 ft
285 ft to 315.38 ft
Total depth 325.5 ft
0
50
100
150
200
250
300
4785
4750
4700
4650
4600
4550
4500
8-5273
Gamma
cps=1_(7-31-67)
0.0
65.0
Gamma-Gamma
cps=300_(7-31-67)
0.0
75.0
Caliper
sc=in_(7-28-67)
0.0
10.0


Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
0
50
100
150
200
250
4793
4750
4700
4650
4600
4550
Top of casing 2.3 ft above LSD
16 in. dia casing to 8 ft
Canvas packer
10 in. dia casing to 262 ft
No borehole annulus material installed
16 in. dia borehole to 262 ft
Perforated casing
116 ft to 125.64 ft
201.39 ft to 221.5 ft
231.54 ft to 251.23 ft
Total depth 262 ft
8-5271

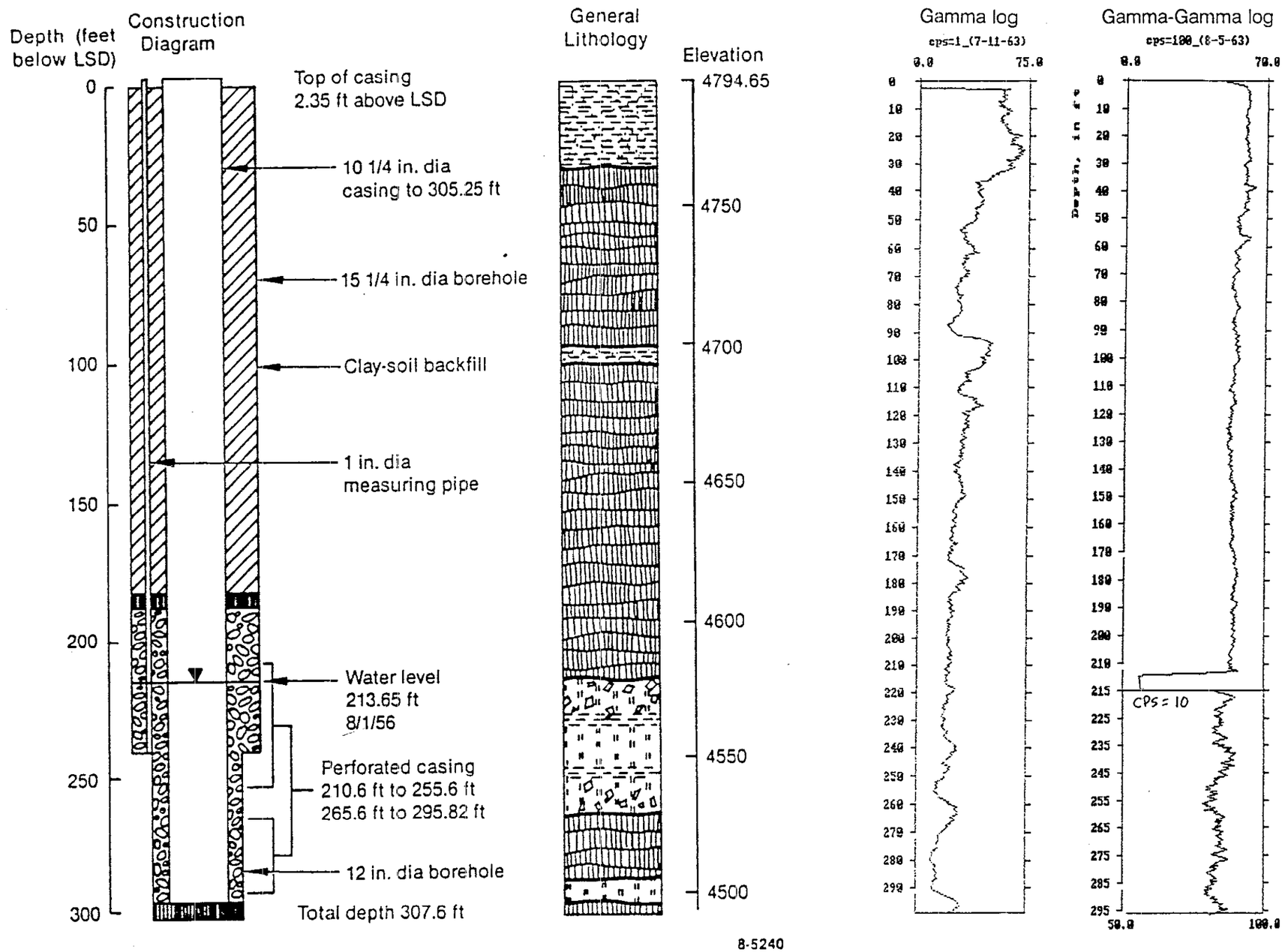

TAN2_CCA
TAN2_CC
TAN2_CB

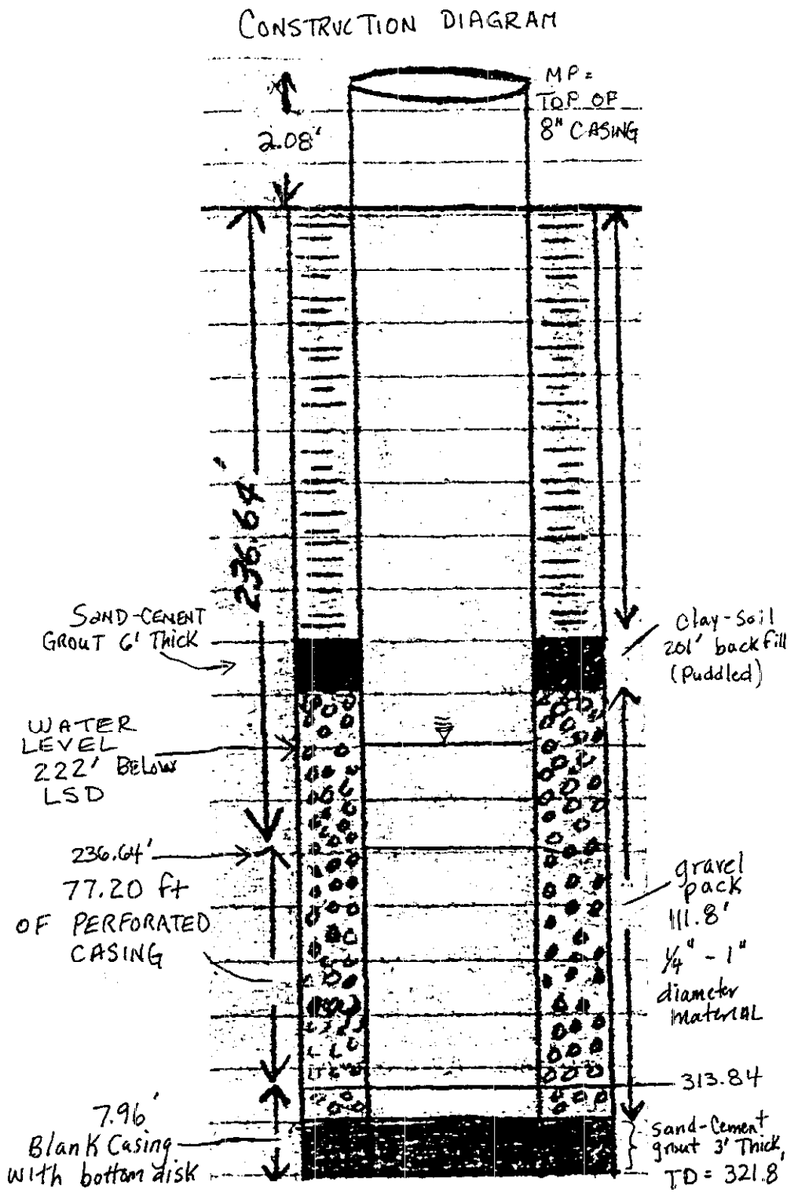
TAN-DISP 3

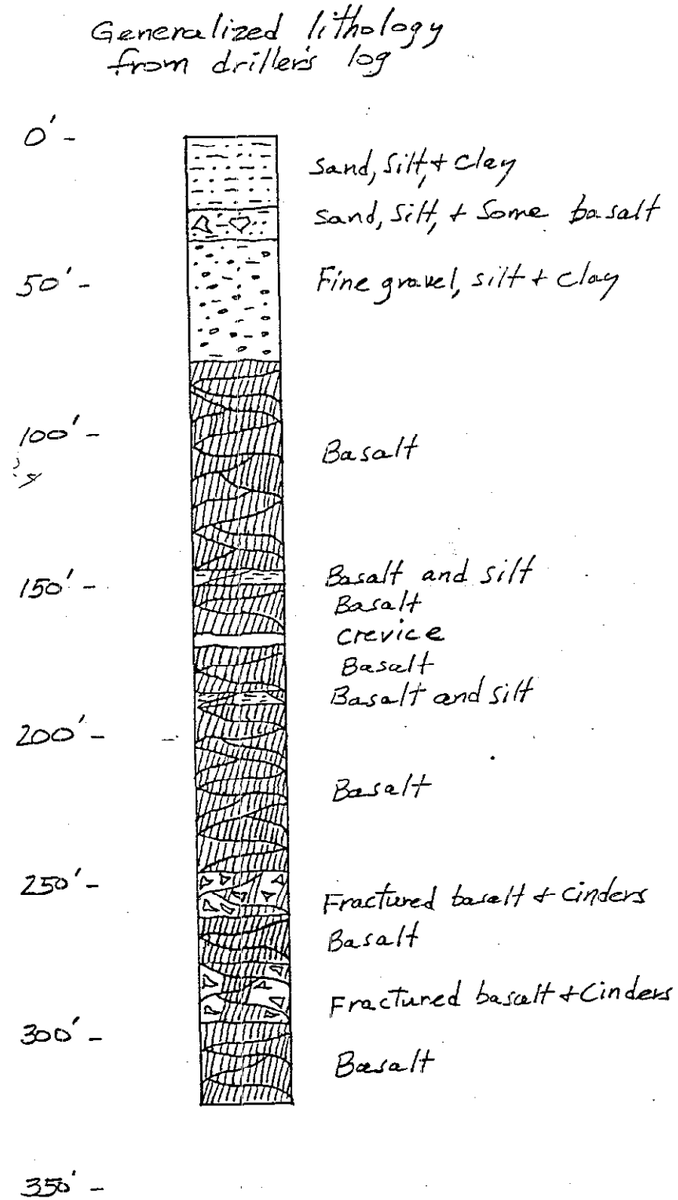

Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
Top of casing 2.04 ft above LSD
16 in. dia casing to 32 ft
Alluvial backfill
Canvas packer
15½ in. dia borehole to 302 ft
10 in. dia casing to 301.86 ft
No borehole annulus material installed
Perforated casing
155.6 ft to 166 ft
246.5 ft to 266.6 ft
277.1 ft to 299.6 ft
Total depth 302 ft
0
50
100
150
200
250
300
4774
4750
4700
4650
4600
4550
4500
8-5272

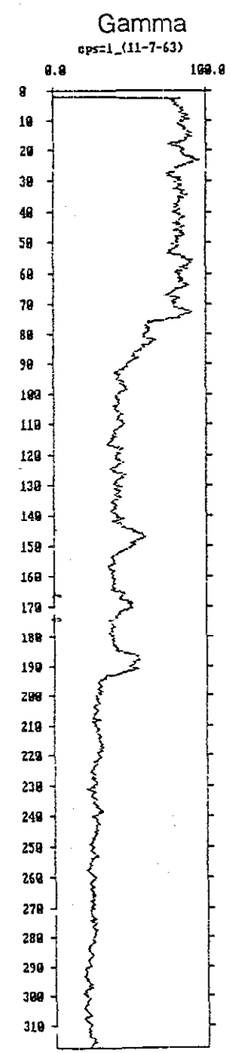

Gamma
cps=1_(8-24-67)
0.0
75.0
Gamma-Gamma
cps=300_(8-24-67)
0.0
60.0
Caliper
sc=in_(8-24-67)
0.0
25.0

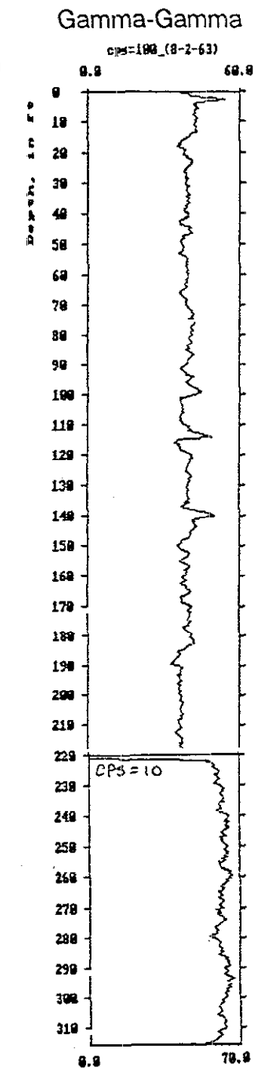
ANP-6

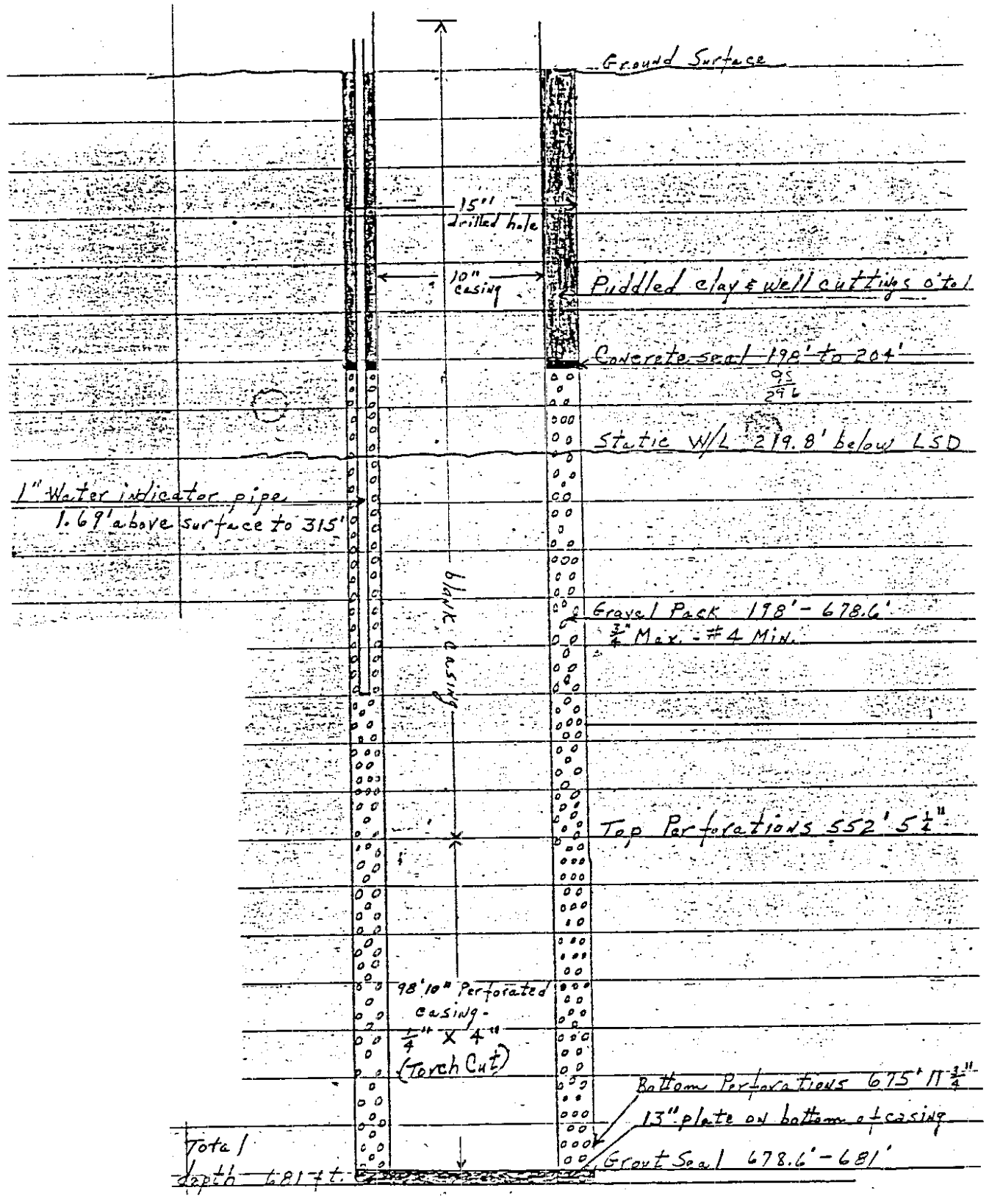

Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
Gamma log
Gamma-Gamma log
Top of casing
2.35 ft above LSD
10 1/4 in. dia
casing to 305.25 ft
15 1/4 in. dia borehole
Clay-soil backfill
1 in. dia
measuring pipe
Water level
213.65 ft
8/1/56
Perforated casing
210.6 ft to 255.6 ft
265.6 ft to 295.82 ft
12 in. dia borehole
Total depth 307.6 ft
4794.65
4750
4700
4650
4600
4550
4500
CPS = 10
8-5240

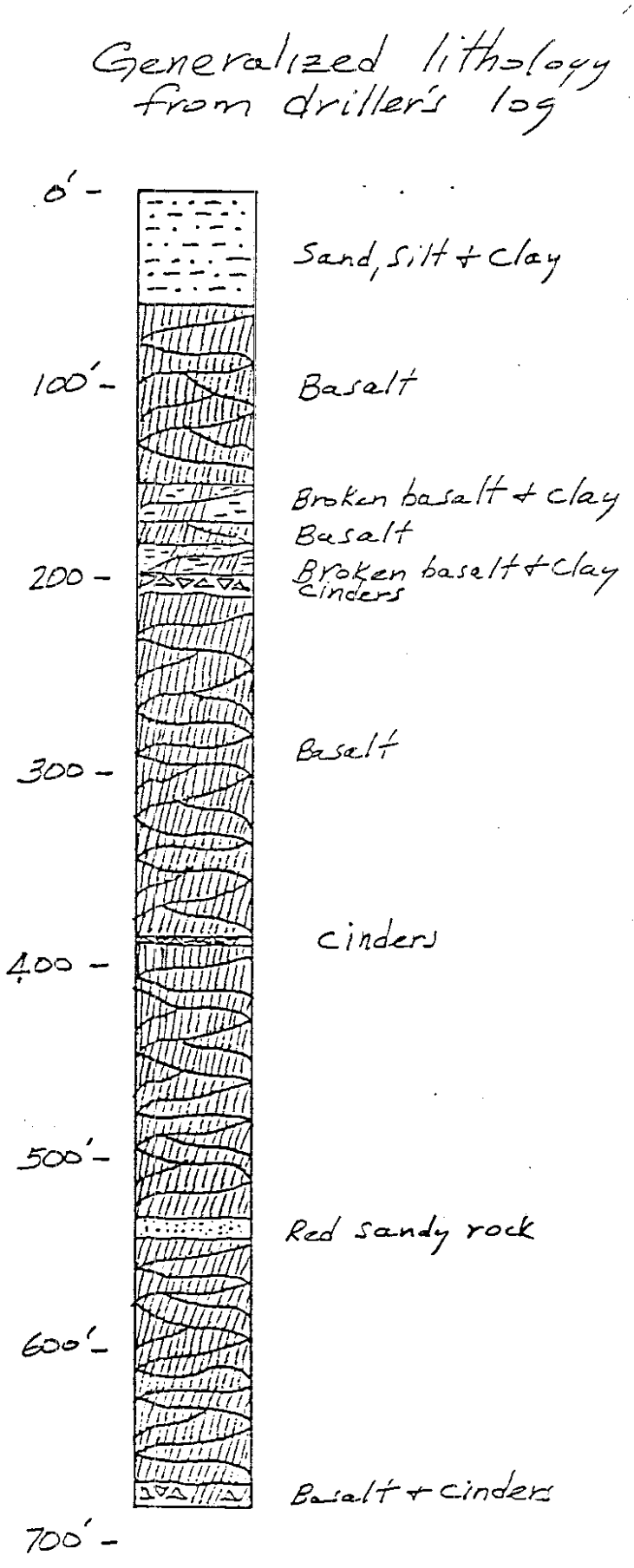

CONSTRUCTION DIAGRAM
MP = TOP OF 8" CASING
2.08'
236.64'
SAND-CEMENT GROUT 6' THICK
WATER LEVEL 222' BELOW LSD
236.64'
77.20 ft OF PERFORATED CASING
7.96' Blank Casing with bottom disk
Clay-Soil 201' backfill (Puddled)
gravel pack 111.8' 1/4" - 1" diameter material
313.84
sand-Cement grout 3' Thick, TD = 321.8

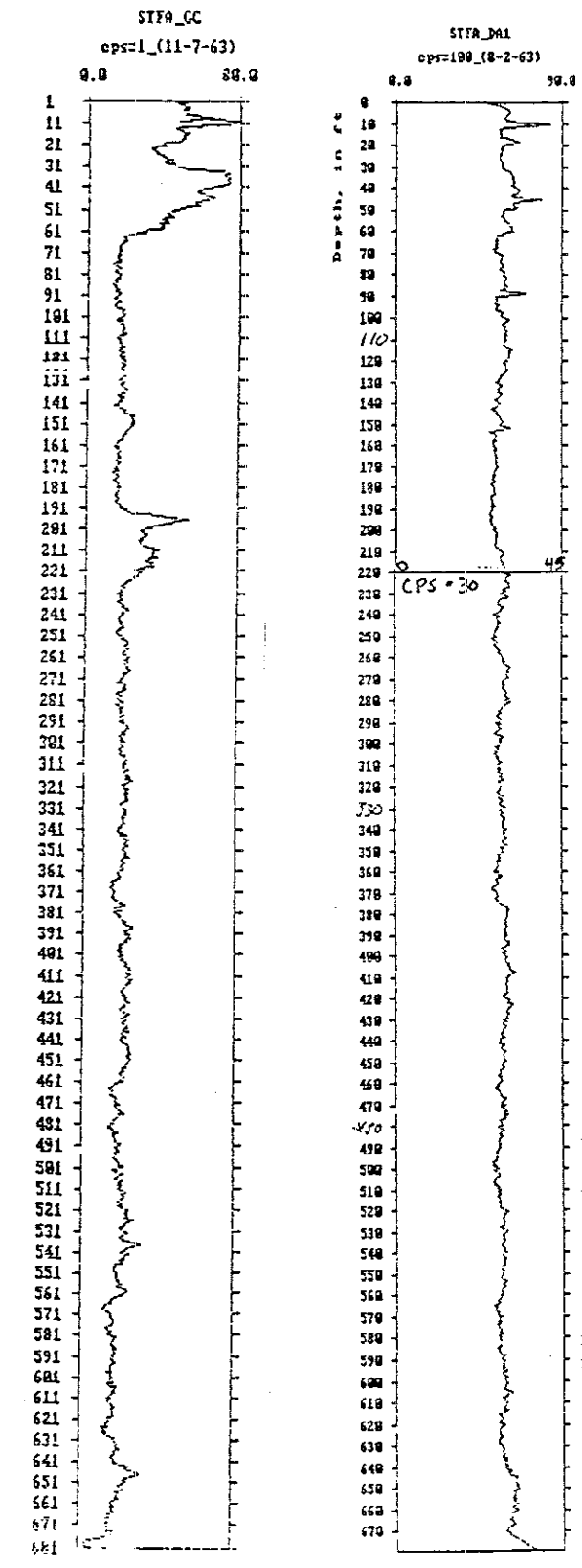

Generalized lithology from driller's log
0'
50'
100'
150'
200'
250'
300'
350'
Sand, Silt + Clay
Sand, Silt + Some basalt
Fine gravel, silt + clay
Basalt
Basalt and silt
Basalt
crevice
Basalt
Basalt and silt
Basalt
Fractured basalt + cinders
Basalt
Fractured basalt + Cinders
Basalt


Gamma
cps=1_(11-7-63)
0.0
100.0


Gamma-Gamma
cps=100_(8-2-63)
0.0
60.0
CPS=10
0.0
70.0

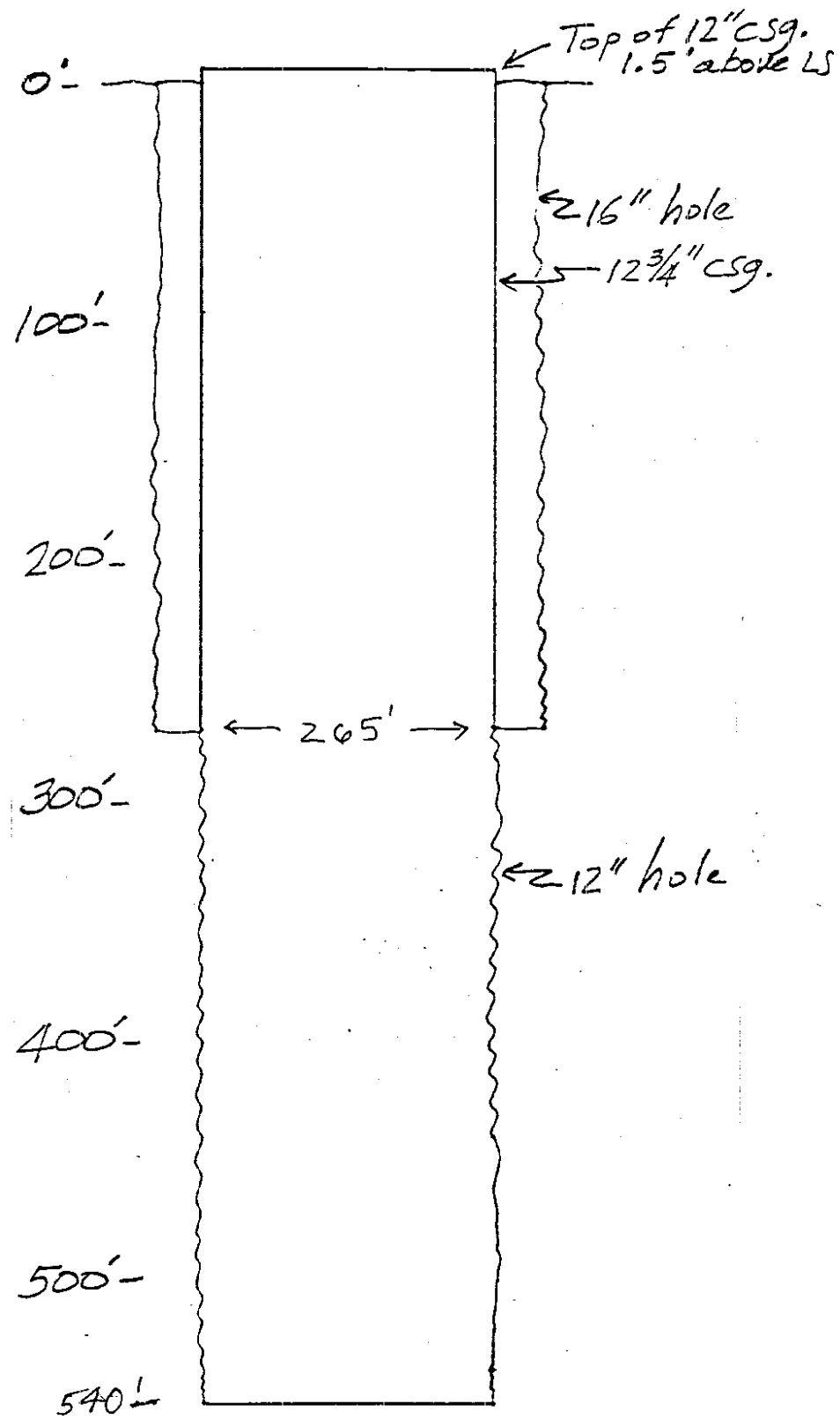

Ground Surface
15" Drilled hole
10" casing
Puddled clay & well cuttings 0' to 1
Concrete seal 198' to 204'
Static W/L 219.8' below LSD
1" Water indicator pipe
1.69' above surface to 315'
Gravel Pack 198' - 678.6'
3/4" Max. - #4 Min.
Top Perforations 552' 5 1/4"
98' 10" Perforated casing - 1/4" x 4" (Torch Cut)
Bottom Perforations 675' 11 3/4"
13" plate on bottom of casing
Grout Seal 678.6' - 681'
Total depth 681 ft.


Generalized lithology from driller's log
0'
100'
200
300
400
500'
600'
700'
Sand, Silt + Clay
Basalt
Broken basalt + clay
Basalt
Broken basalt + clay
Cinders
Basalt
Cinders
Red sandy rock
Basalt + cinders

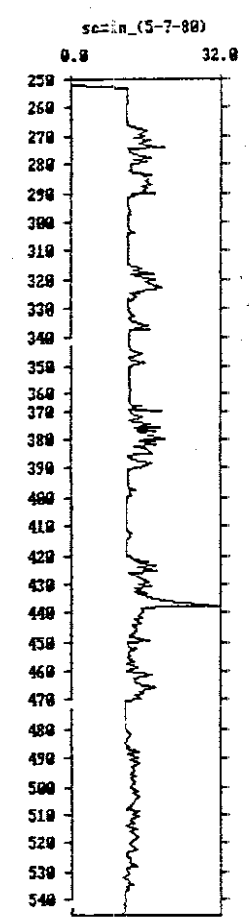

STFA_GC
cps=1_(11-7-63)
STFA_DA1
cps=100_(8-2-63)
CPS = 30

NO NAME

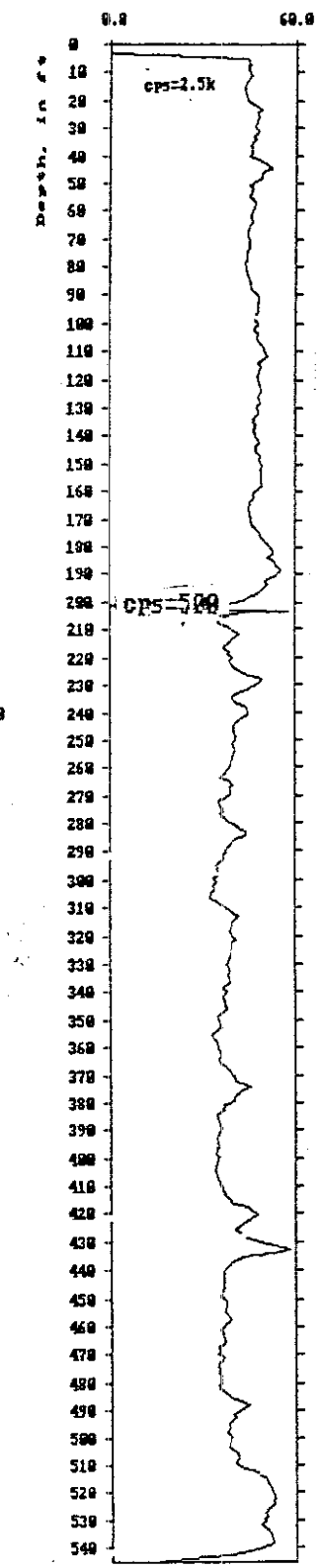
Construction Diagram



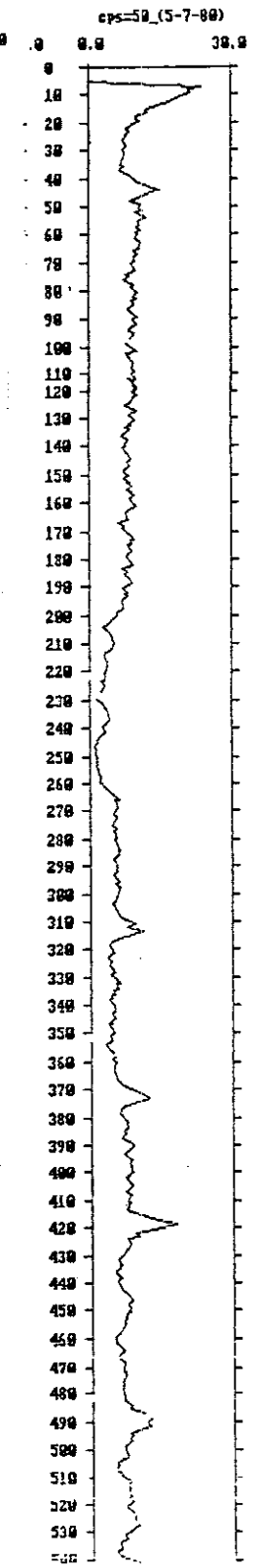
Caliper log



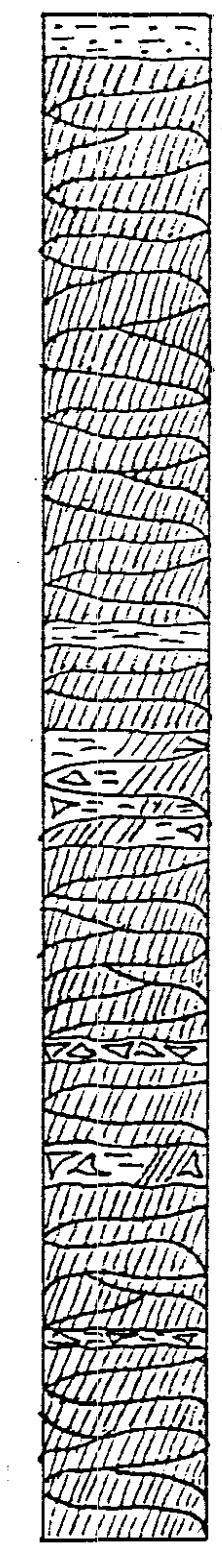
Gamma-Gamma



Gamma



Generalized lithology (from drillers log)



sandy clay

Basalt

clay

Basalt

Broken basalt with some clay

Basalt

Red cinders

Basalt

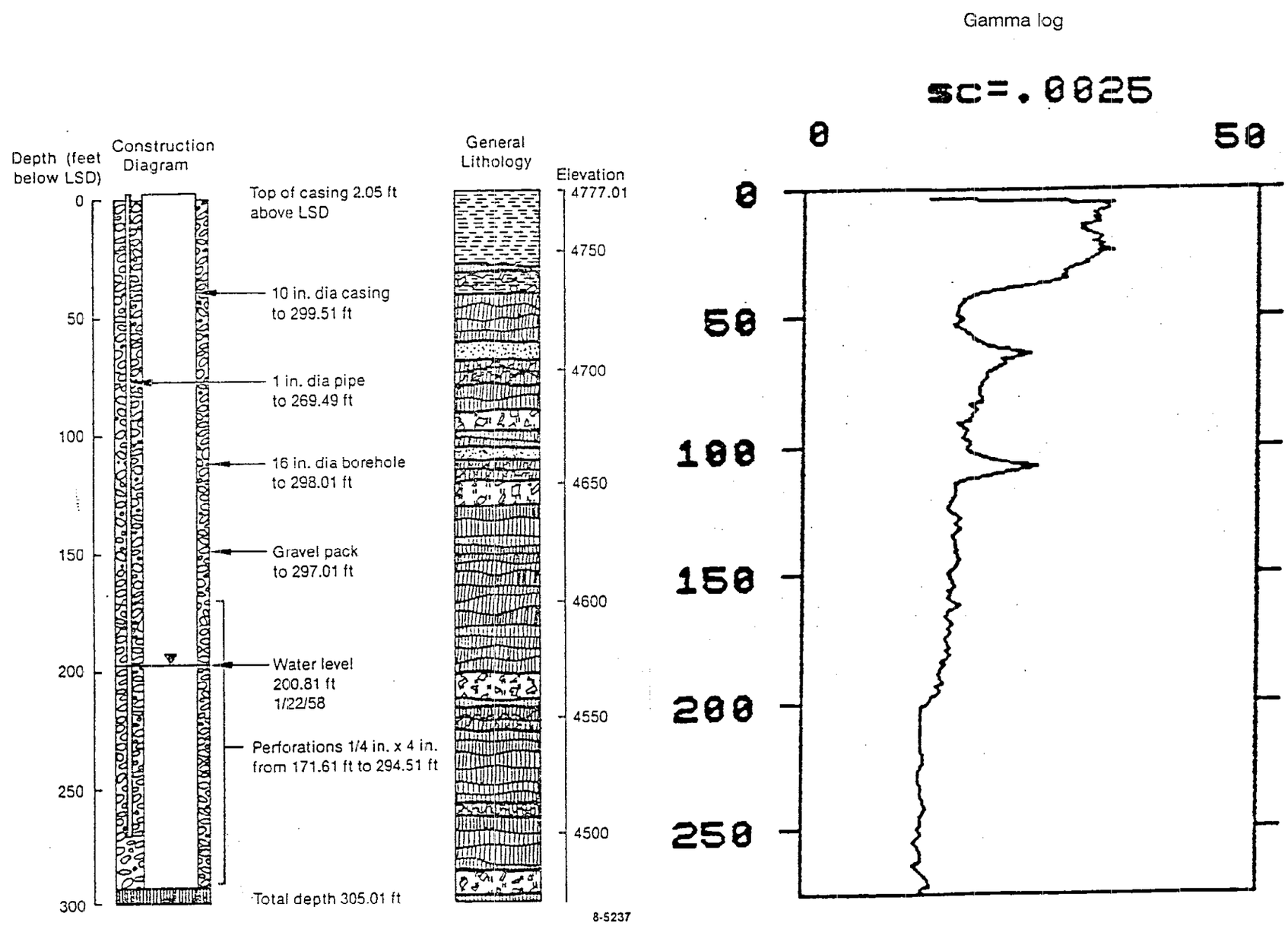
Red cinders, clay and broken basalt

Basalt

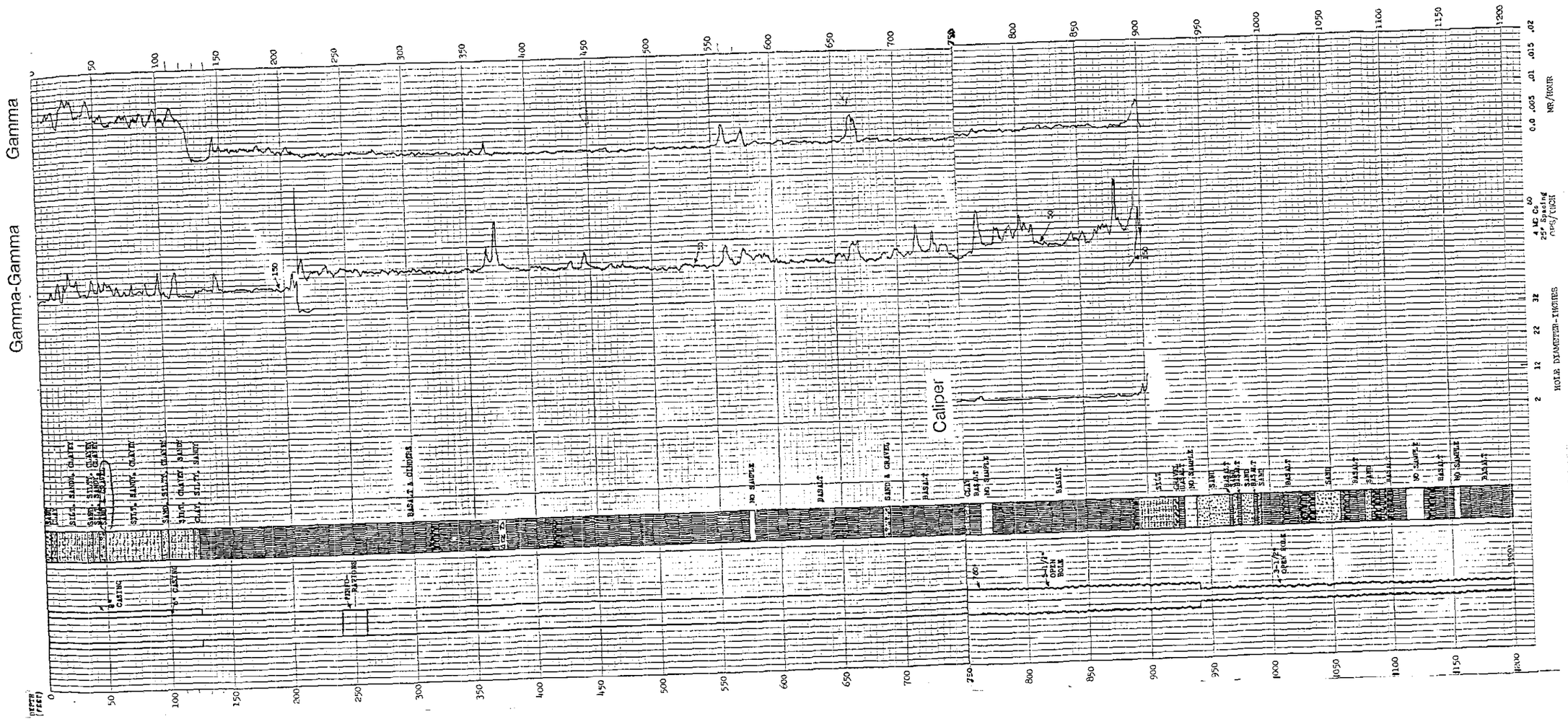
cinders and clay

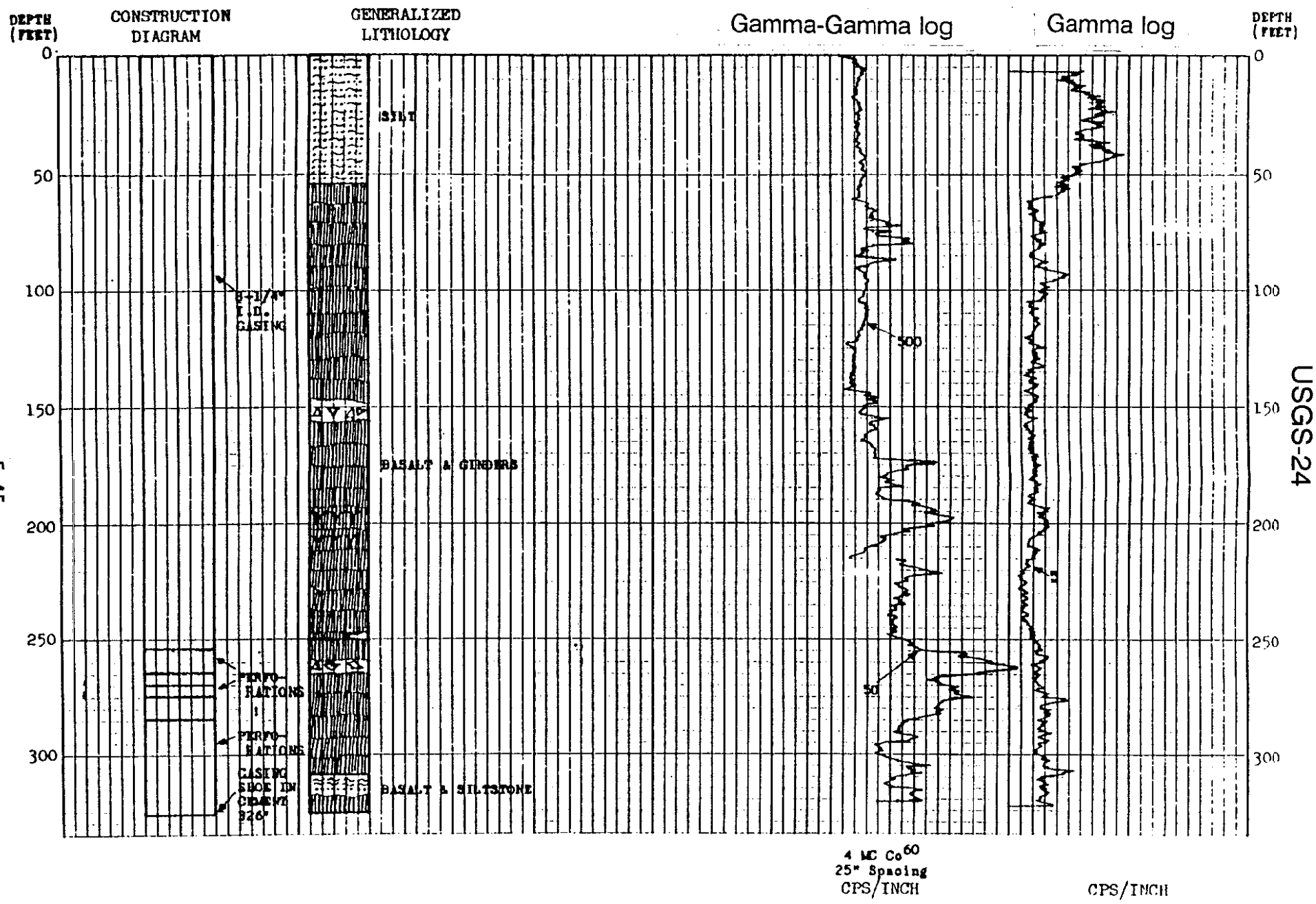
Basalt

LOFT-DISP


Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
Top of casing 2.05 ft above LSD
10 in. dia casing to 299.51 ft
1 in. dia pipe to 269.49 ft
16 in. dia borehole to 298.01 ft
Gravel pack to 297.01 ft
Water level 200.81 ft 1/22/58
Perforations 1/4 in. x 4 in. from 171.61 ft to 294.51 ft
Total depth 305.01 ft
0
50
100
150
200
250
300
4777.01
4750
4700
4650
4600
4550
4500
8-5237
Gamma log
sc=.0025
0
50
0
50
100
150
200
250

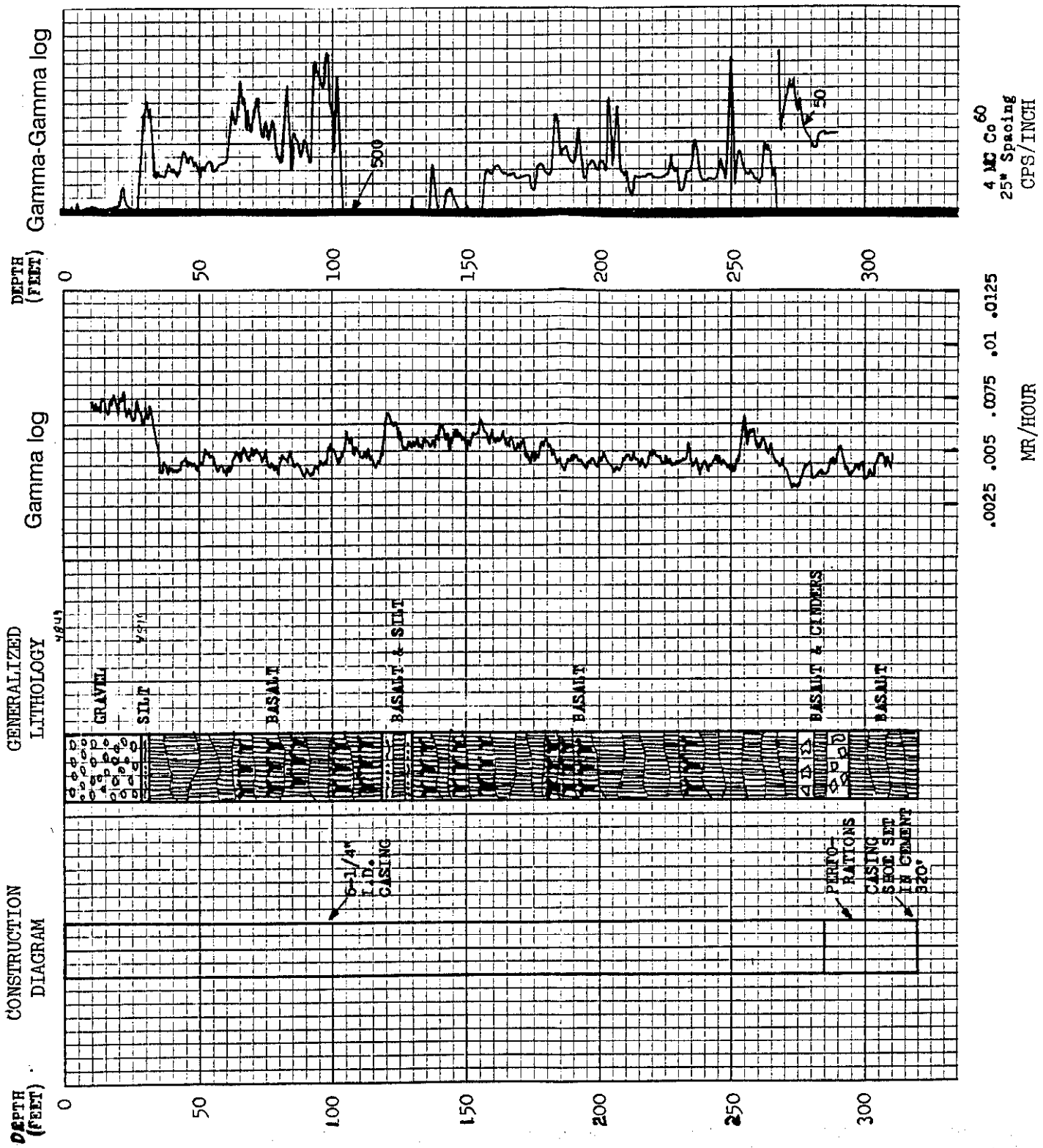
USGS-7


Gamma
Gamma-Gamma
Caliper
DEPTH (FEET)
HOLE DIAMETER-INCHES
MR/HOUR
CPS/INCH
BASALT & CINDERS
SAND & GRAVEL
BASALT
NO SAMPLE
CLAY
SILT
SAND
GRAVEL
CASING
5-1/2" OPEN HOLE
3-1/2" OPEN HOLE

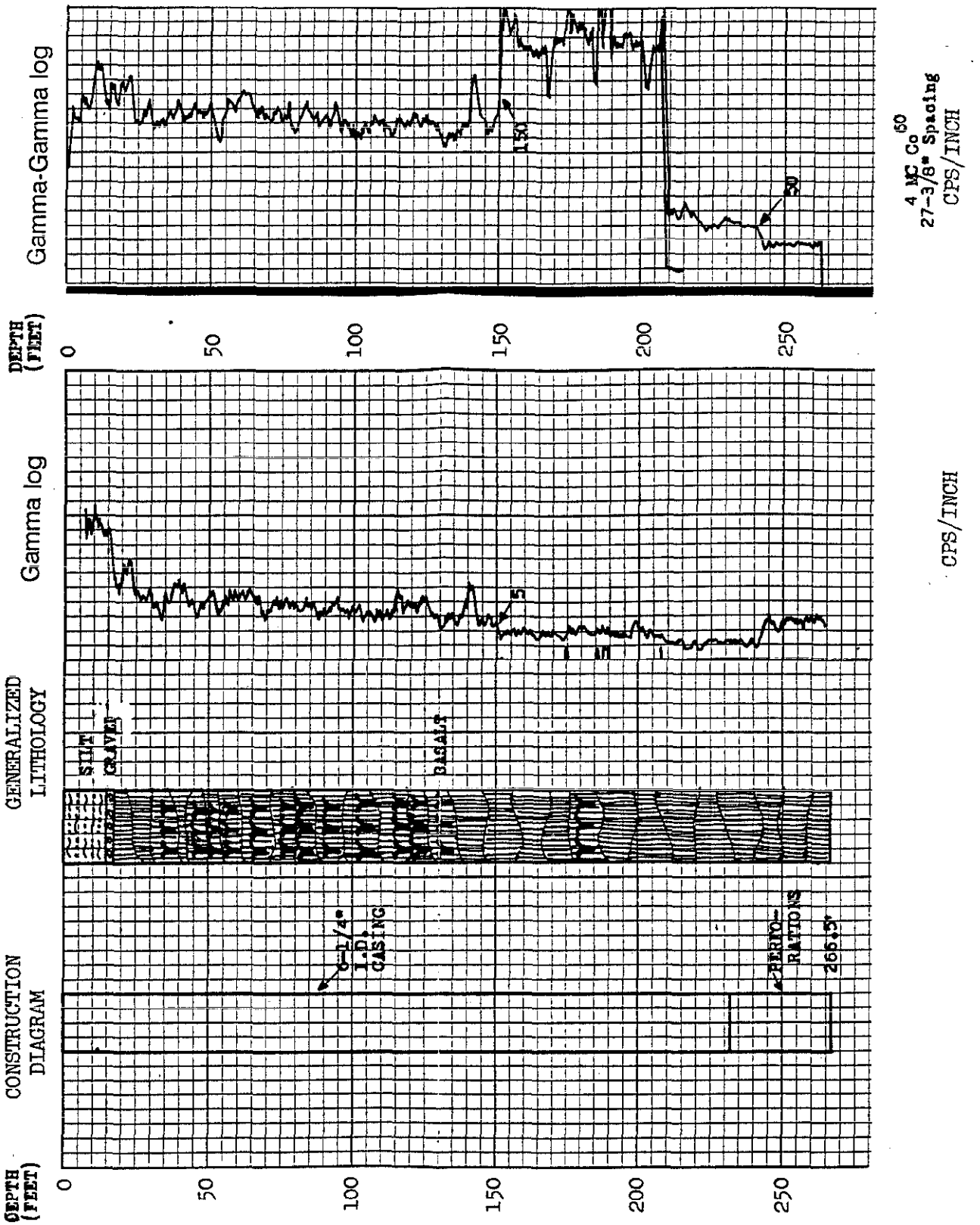

DEPTH (FEET)
CONSTRUCTION DIAGRAM
GENERALIZED LITHOLOGY
Gamma-Gamma log
Gamma log
DEPTH (FEET)
0
50
100
150
200
250
300
SILT
BASALT & CINDERS
BASALT & SILTSTONE
8-1/4" I.D. CASING
PERFO-RATIONS
PERFO-RATIONS
CASING SHOE IN CEMENT 326'
500
10
4 MC Co60
25" Spacing
CPS/INCH
CPS/INCH

USGS-24

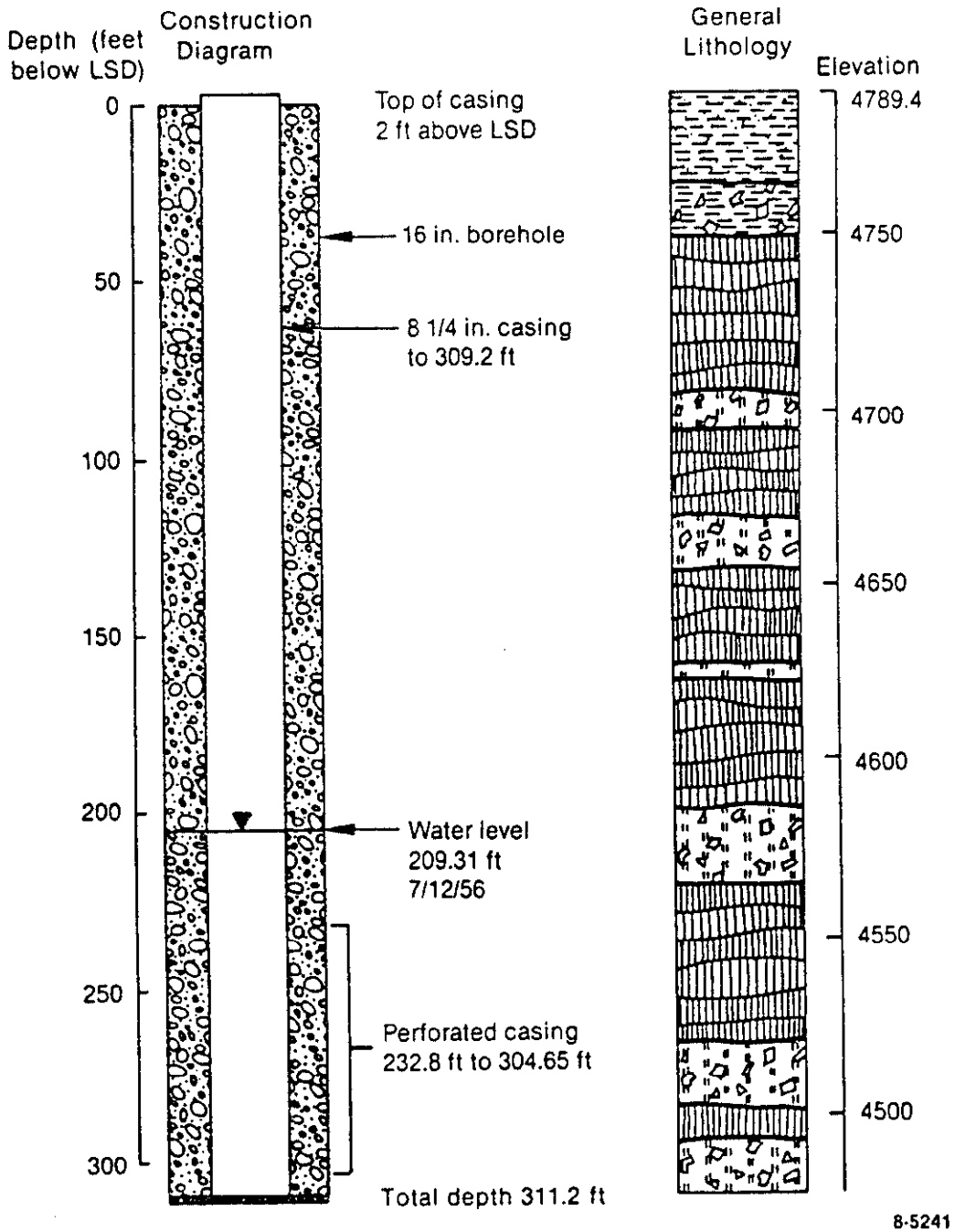
USGS-25


Gamma-Gamma log
500
50
4 MC Co60
25" Spacing
CPS/INCH
DEPTH (FEET)
0
50
100
150
200
250
300
Gamma log
.0025 .005 .0075 .01 .0125
MR/HOUR
GENERALIZED LITHOLOGY
GRAVEL
SILT
BASALT
BASALT & SILT
BASALT
BASALT & CINDERS
BASALT
CONSTRUCTION DIAGRAM
6-1/4" I.D. CASING
PERFO-RATIONS
CASING SHOE SET IN CEMENT 320'
DEPTH (FEET)
0
50
100
150
200
250
300

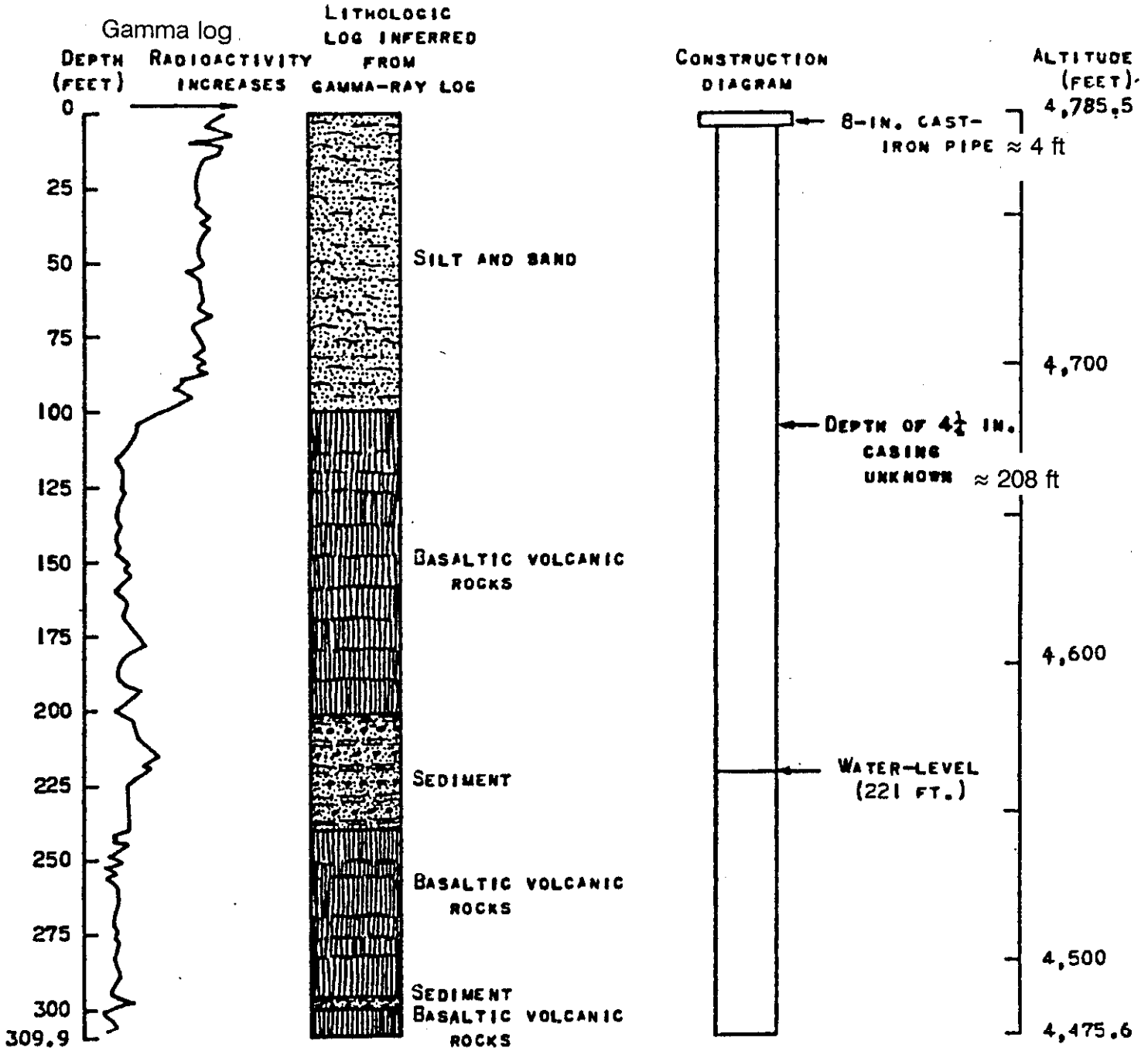
USGS-26


Gamma-Gamma log
4 MC Co60
27-3/8" Spacing
CPS/INCH
150
50
DEPTH (FEET)
0
50
100
150
200
250
Gamma log
CPS/INCH
5
GENERALIZED LITHOLOGY
SILT
GRAVEL
BASALT
CONSTRUCTION DIAGRAM
6-1/2" I.D. CASING
PERFO-RATIONS
266.5'
DEPTH (FEET)
0
50
100
150
200
250

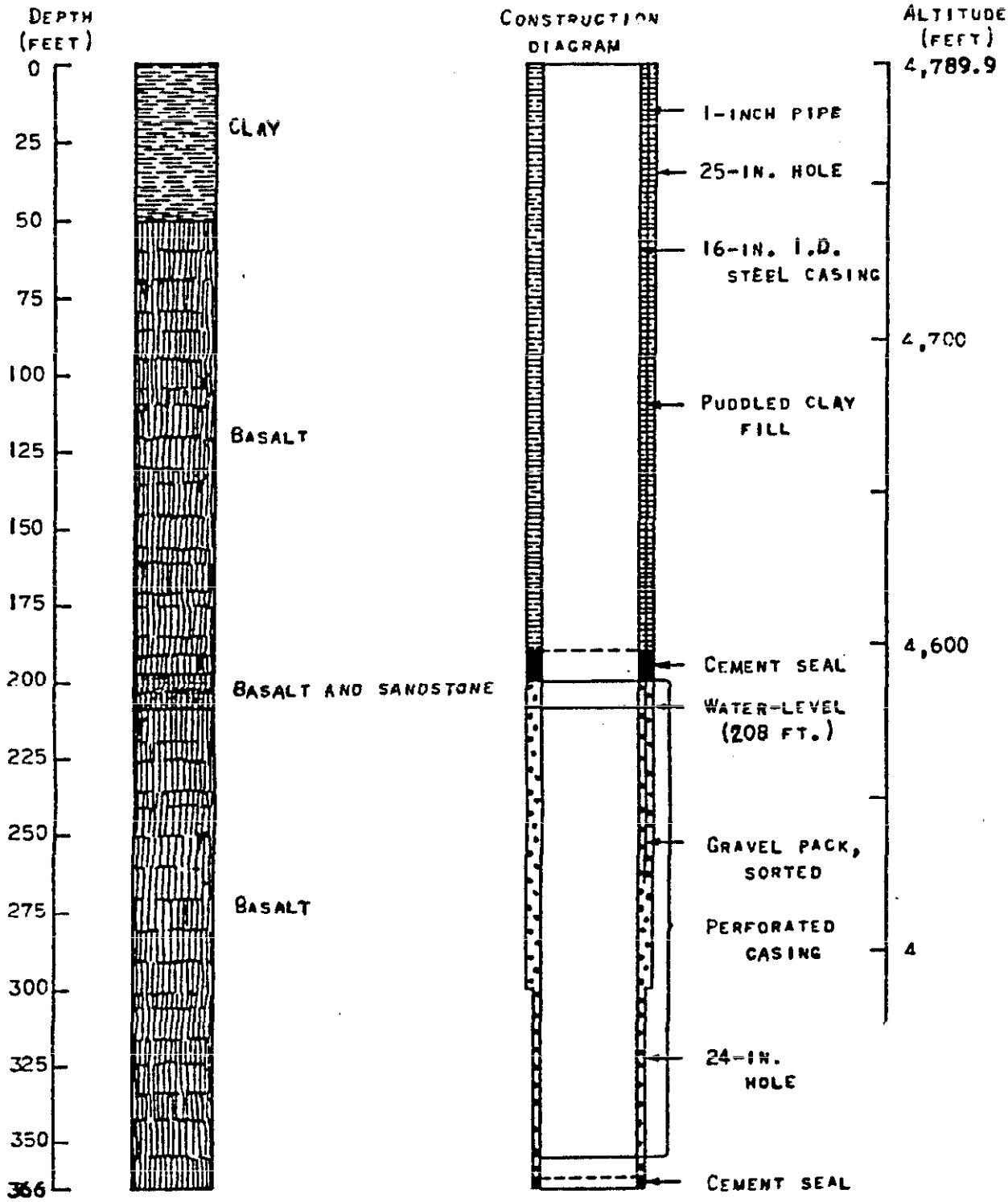
ANP-8


Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
0
50
100
150
200
250
300
Top of casing
2 ft above LSD
16 in. borehole
8 1/4 in. casing
to 309.2 ft
Water level
209.31 ft
7/12/56
Perforated casing
232.8 ft to 304.65 ft
Total depth 311.2 ft
4789.4
4750
4700
4650
4600
4550
4500
8-5241

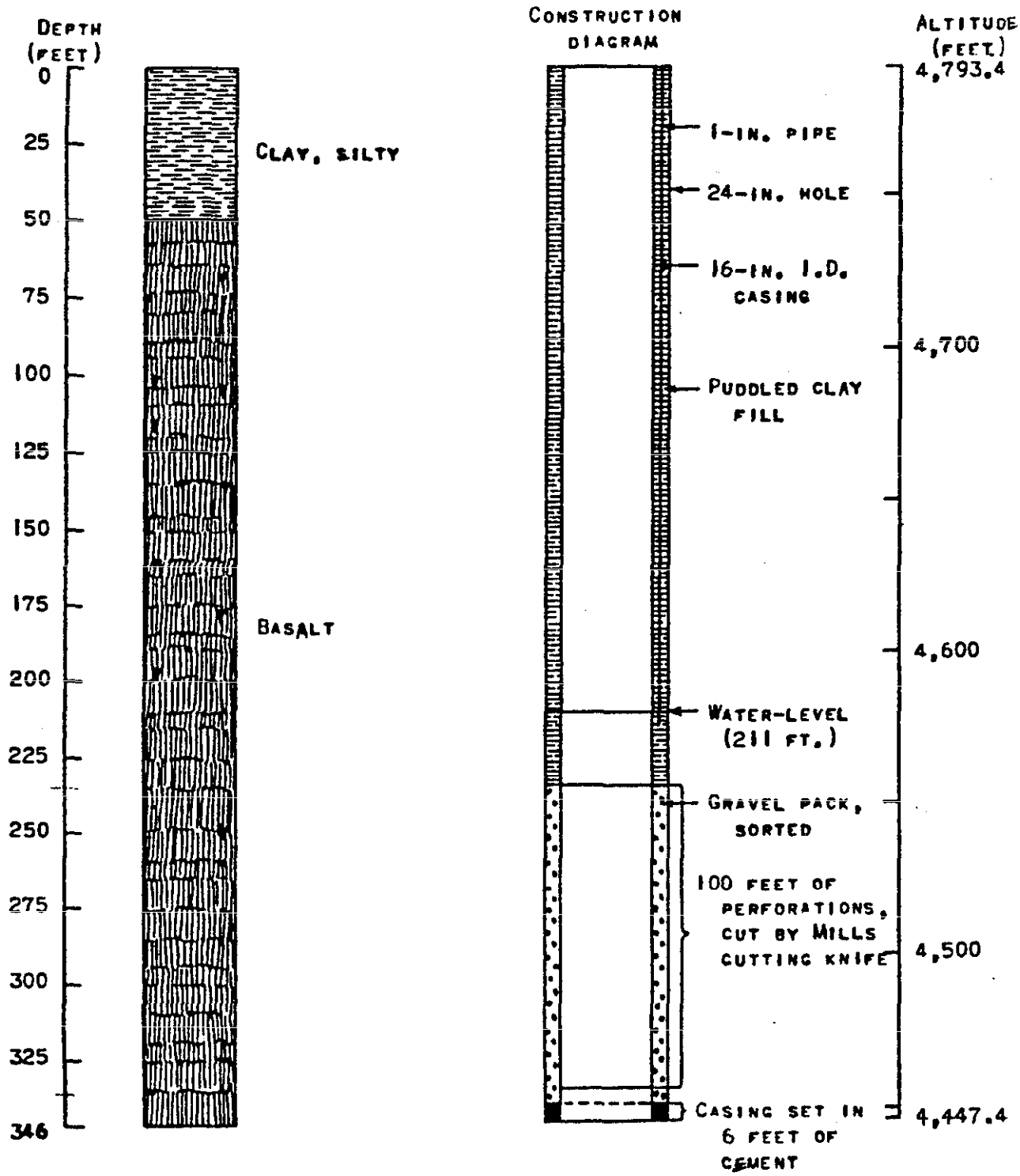
OWSLEY-2


Gamma log
Depth (feet)
Radioactivity increases
Lithologic log inferred from gamma-ray log
Construction diagram
Altitude (feet)
0
25
50
75
100
125
150
175
200
225
250
275
300
309.9
Silt and sand
Basaltic volcanic rocks
Sediment
Basaltic volcanic rocks
Sediment
Basaltic volcanic rocks
8-in. cast-iron pipe ≈ 4 ft
Depth of 4½ in. casing unknown ≈ 208 ft
Water-level (221 ft.)
4,785.5
4,700
4,600
4,500
4,475.6

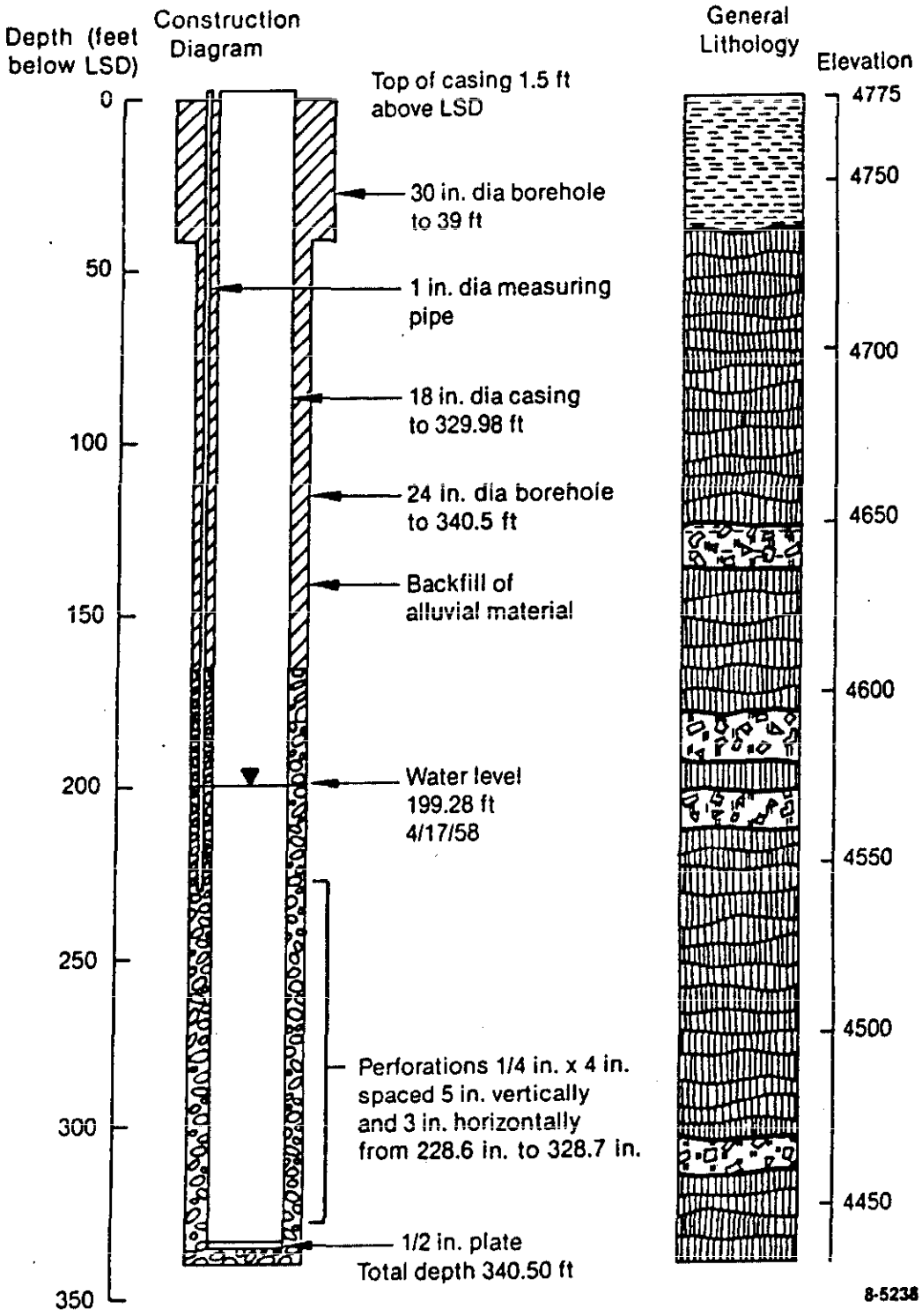
TAN-1


DEPTH (FEET)
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
366
CLAY
BASALT
BASALT AND SANDSTONE
BASALT
CONSTRUCTION DIAGRAM
1-INCH PIPE
25-IN. HOLE
16-IN. I.D. STEEL CASING
PUDDLED CLAY FILL
CEMENT SEAL
WATER-LEVEL (208 FT.)
GRAVEL PACK, SORTED
PERFORATED CASING
24-IN. HOLE
CEMENT SEAL
ALTITUDE (FEET)
4,789.9
4,700
4,600
4

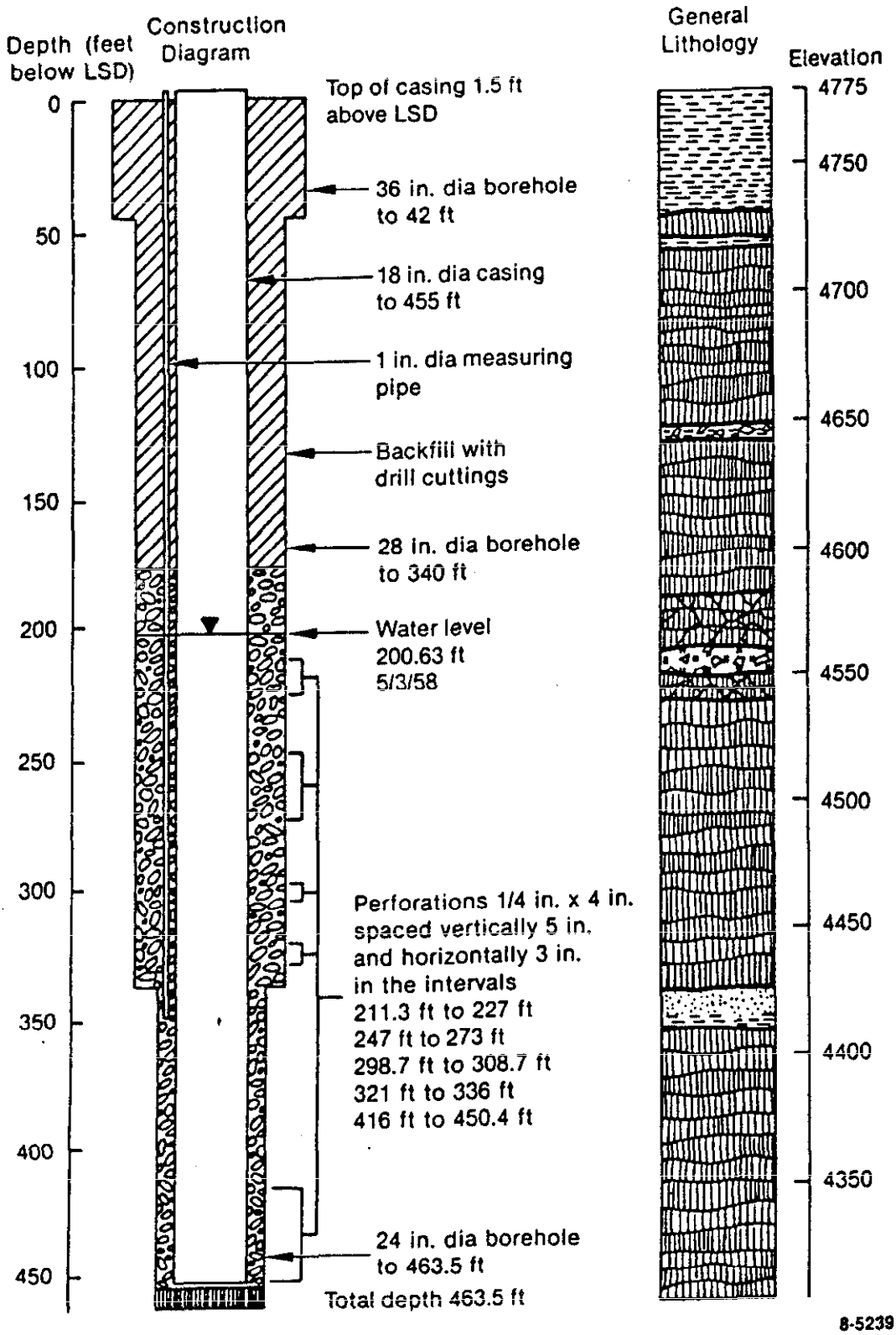
TAN-2


DEPTH (FEET)
0
25
50
75
100
125
150
175
200
225
250
275
300
325
346
CLAY, SILTY
BASALT
CONSTRUCTION DIAGRAM
ALTITUDE (FEET)
4,793.4
1-IN. PIPE
24-IN. HOLE
16-IN. I.D. CASING
4,700
PUDDLED CLAY FILL
4,600
WATER-LEVEL (211 FT.)
GRAVEL PACK, SORTED
100 FEET OF PERFORATIONS, CUT BY MILLS CUTTING KNIFE
4,500
CASING SET IN 6 FEET OF CEMENT
4,447.4

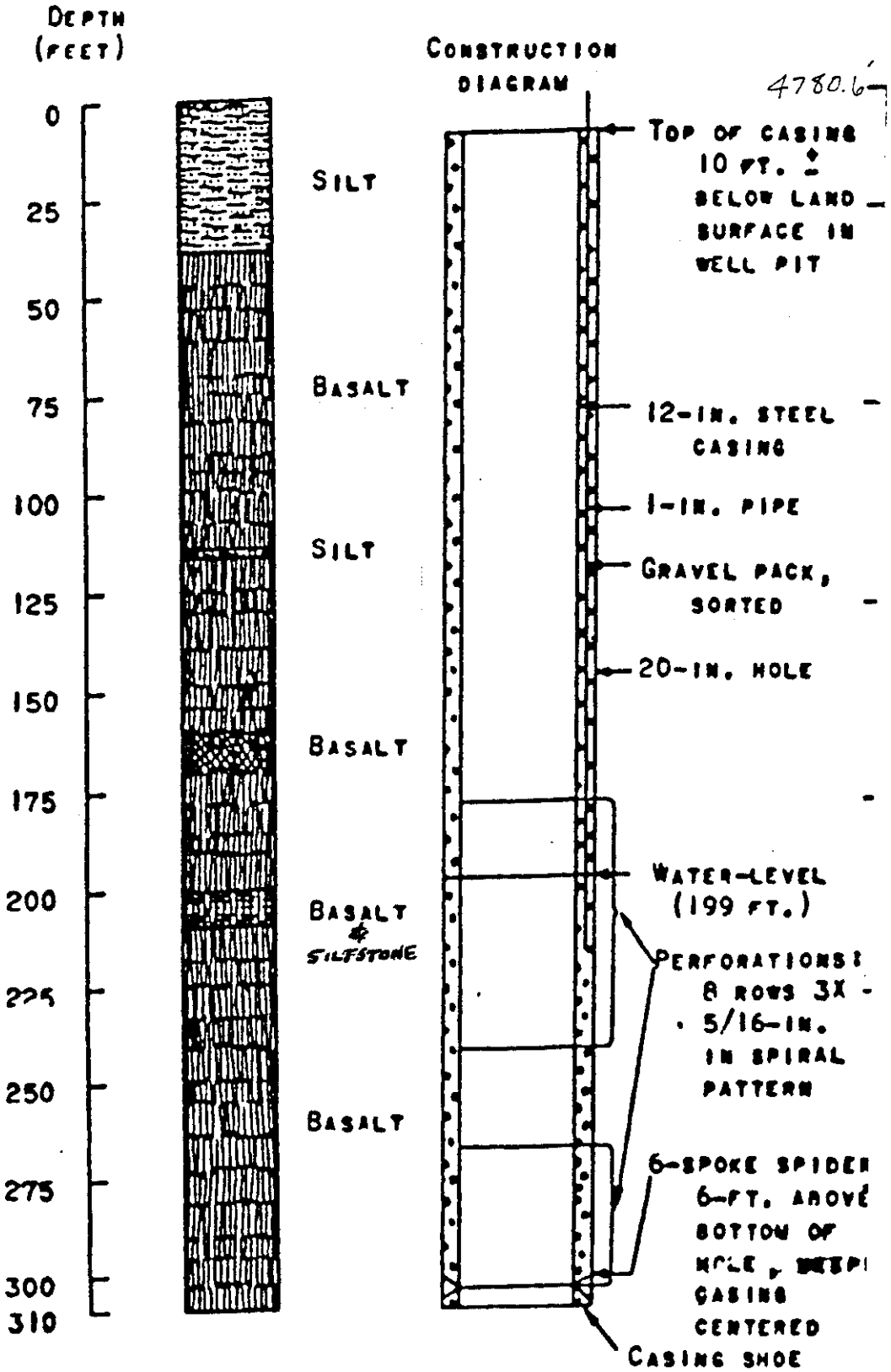
LOFT-1


Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
0
50
100
150
200
250
300
350
4775
4750
4700
4650
4600
4550
4500
4450
Top of casing 1.5 ft above LSD
30 in. dia borehole to 39 ft
1 in. dia measuring pipe
18 in. dia casing to 329.98 ft
24 in. dia borehole to 340.5 ft
Backfill of alluvial material
Water level 199.28 ft 4/17/58
Perforations 1/4 in. x 4 in. spaced 5 in. vertically and 3 in. horizontally from 228.6 in. to 328.7 in.
1/2 in. plate
Total depth 340.50 ft
8-5238

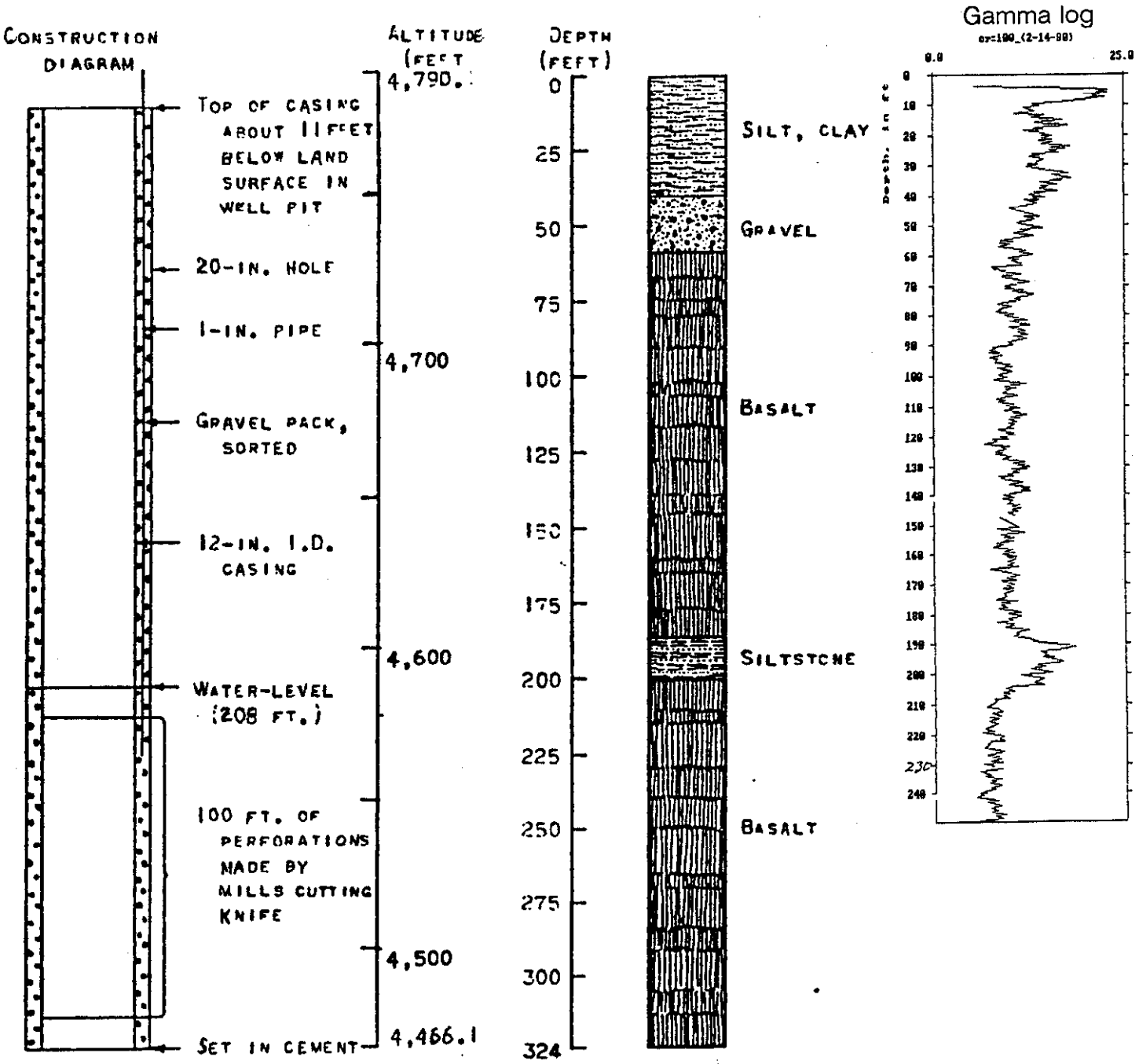
LOFT-2


Depth (feet below LSD)
Construction Diagram
General Lithology
Elevation
0
50
100
150
200
250
300
350
400
450
4775
4750
4700
4650
4600
4550
4500
4450
4400
4350
Top of casing 1.5 ft above LSD
36 in. dia borehole to 42 ft
18 in. dia casing to 455 ft
1 in. dia measuring pipe
Backfill with drill cuttings
28 in. dia borehole to 340 ft
Water level 200.63 ft 5/3/58
Perforations 1/4 in. x 4 in. spaced vertically 5 in. and horizontally 3 in. in the intervals
211.3 ft to 227 ft
247 ft to 273 ft
298.7 ft to 308.7 ft
321 ft to 336 ft
416 ft to 450.4 ft
24 in. dia borehole to 463.5 ft
Total depth 463.5 ft
8-5239

TSF-INJ


DEPTH (FEET)
0
25
50
75
100
125
150
175
200
225
250
275
300
310
SILT
BASALT
SILT
BASALT
BASALT & SILTSTONE
BASALT
CONSTRUCTION DIAGRAM
4780.6
TOP OF CASING 10 FT. ± BELOW LAND SURFACE IN WELL PIT
12-IN. STEEL CASING
1-IN. PIPE
GRAVEL PACK, SORTED
20-IN. HOLE
WATER-LEVEL (199 FT.)
PERFORATIONS: 8 ROWS 3X 5/16-IN. IN SPIRAL PATTERN
6-SPOKE SPIDER 6-FT. ABOVE BOTTOM OF HOLE, WITH CASING CENTERED
CASING SHOE

IET-DISP


Construction diagram
Altitude (feet)
Depth (feet)
Gamma log
Top of casing about 11 feet below land surface in well pit
20-in. hole
1-in. pipe
Gravel pack, sorted
12-in. I.D. casing
Water-level (208 ft.)
100 ft. of perforations made by Mills cutting knife
Set in cement
4,790.
4,700
4,600
4,500
4,466.1
0
25
50
75
100
125
150
175
200
225
250
275
300
324
Silt, clay
Gravel
Basalt
Siltstone
Basalt
0.0
25.0

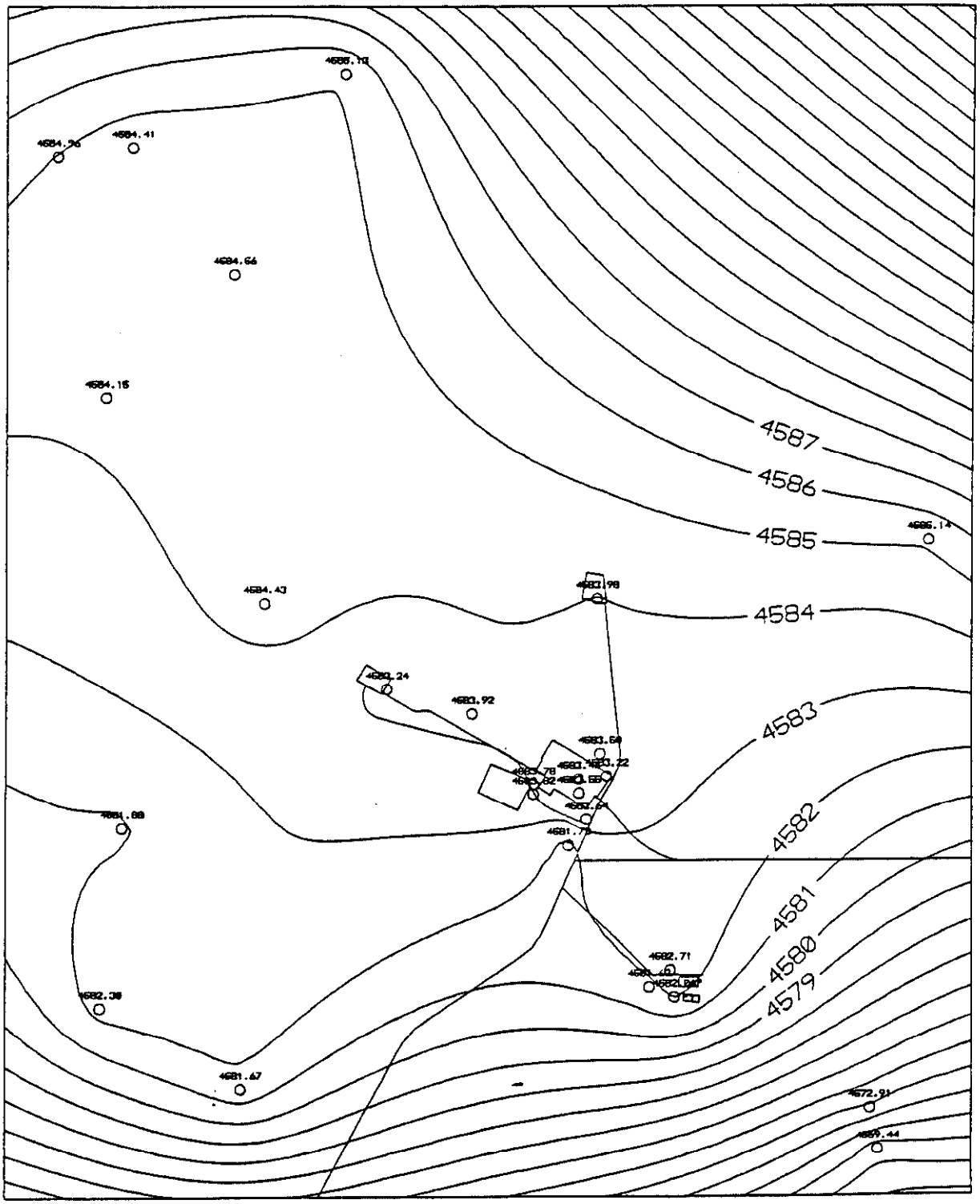
Appendix F

Number

APPENDIX F

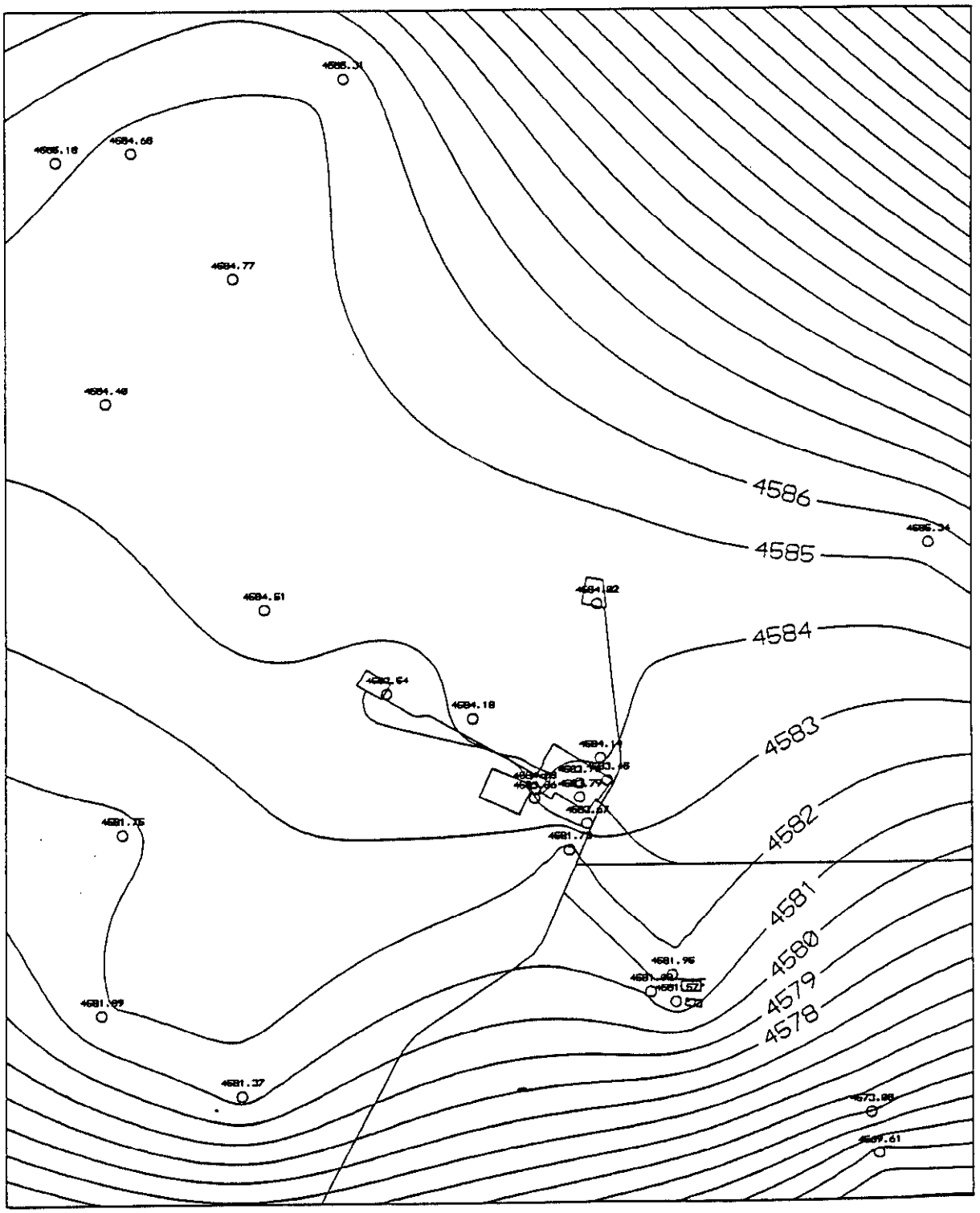
POTENTIOMETRIC MAPS, WELL HYDROGRAPHS, AND WATER LEVEL DATA SHEETS (JANUARY 1990 - DECEMBER 1990)

January 1990



SCALE 1 inch = 5000 Feet

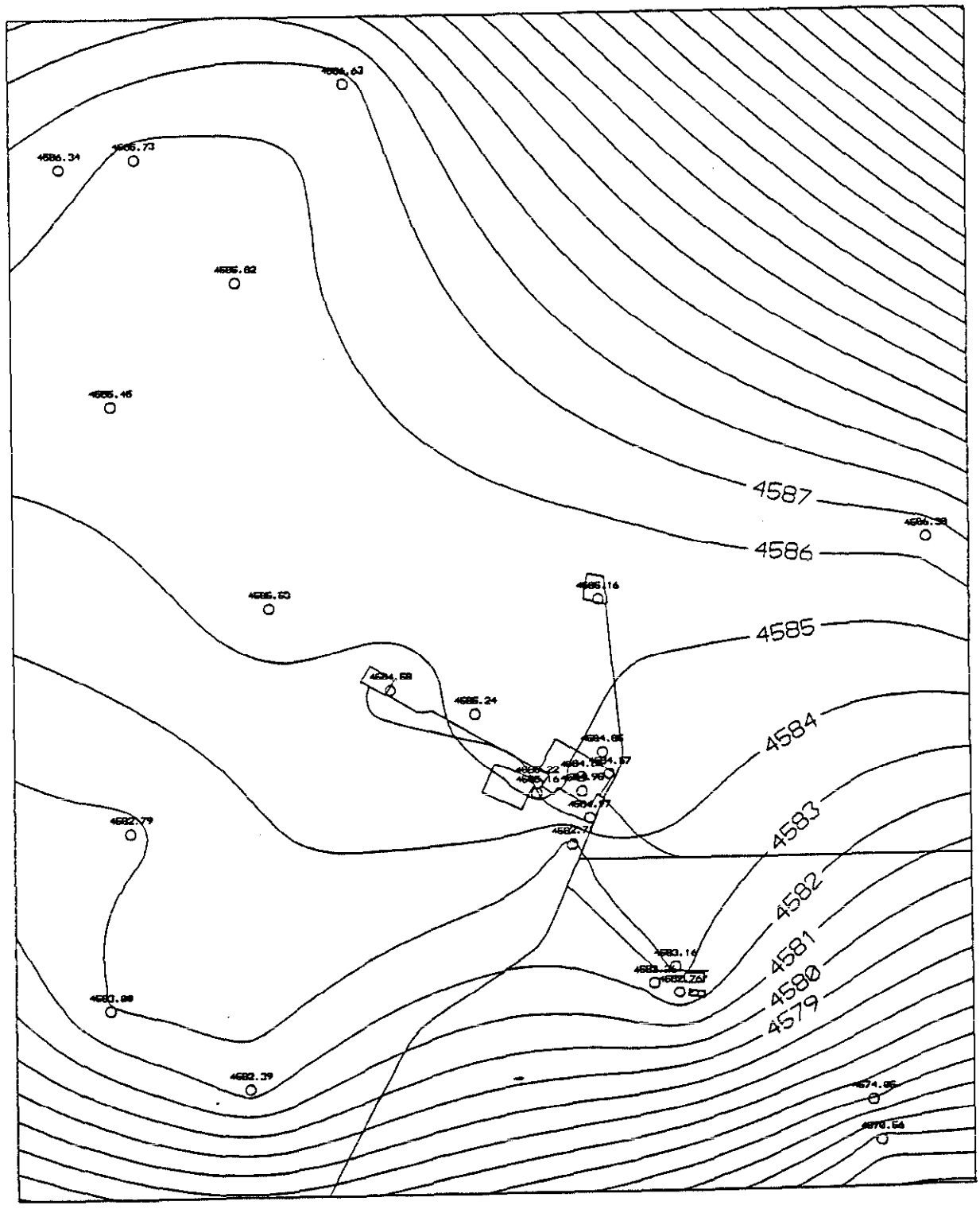
Febuary 1990

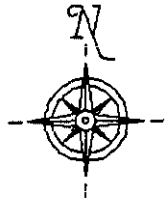


N

SCALE 1 inch = 5000 Feet

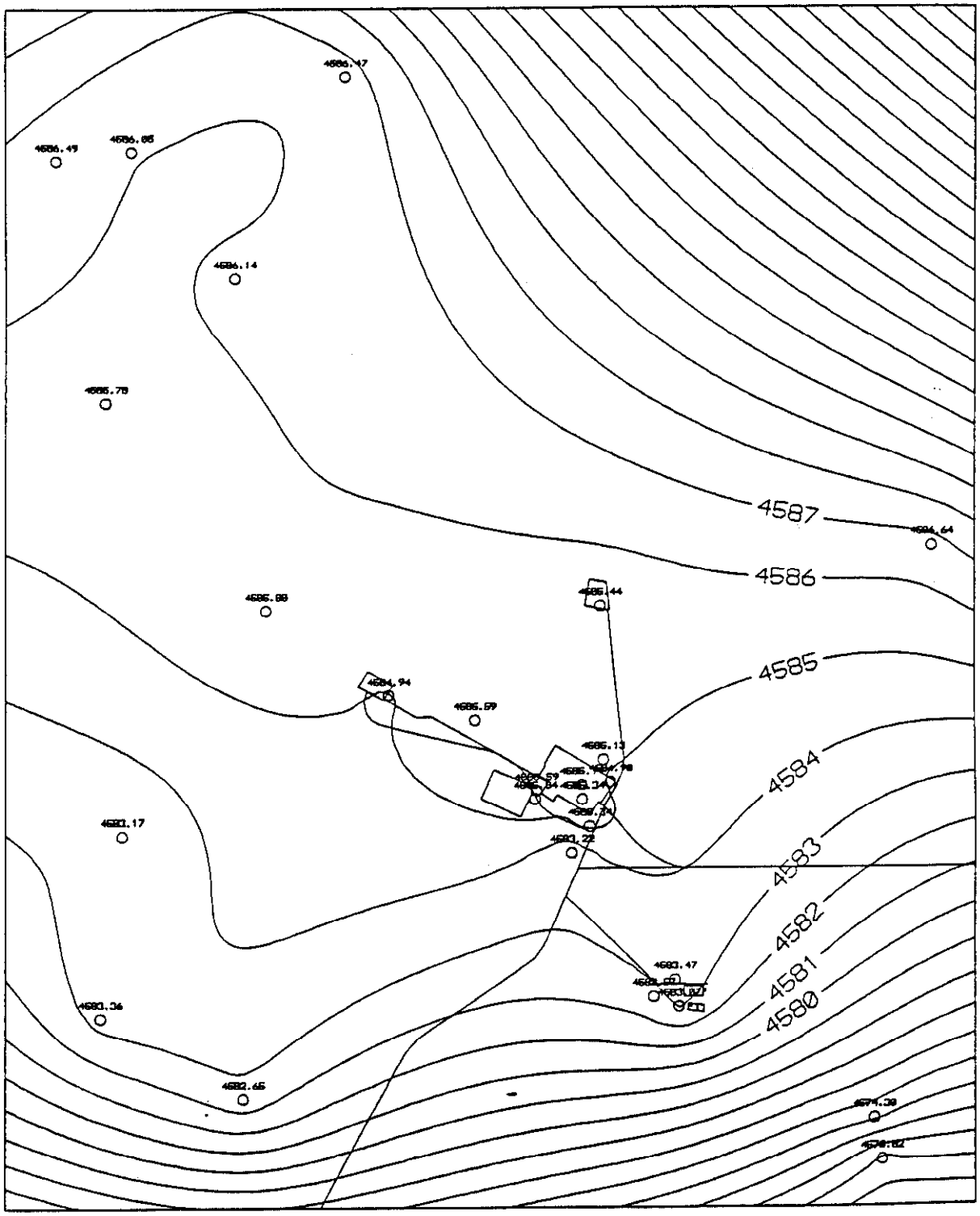
March 1990

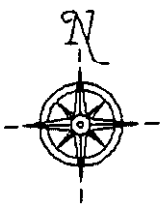




SCALE 1 inch = 5000 Feet

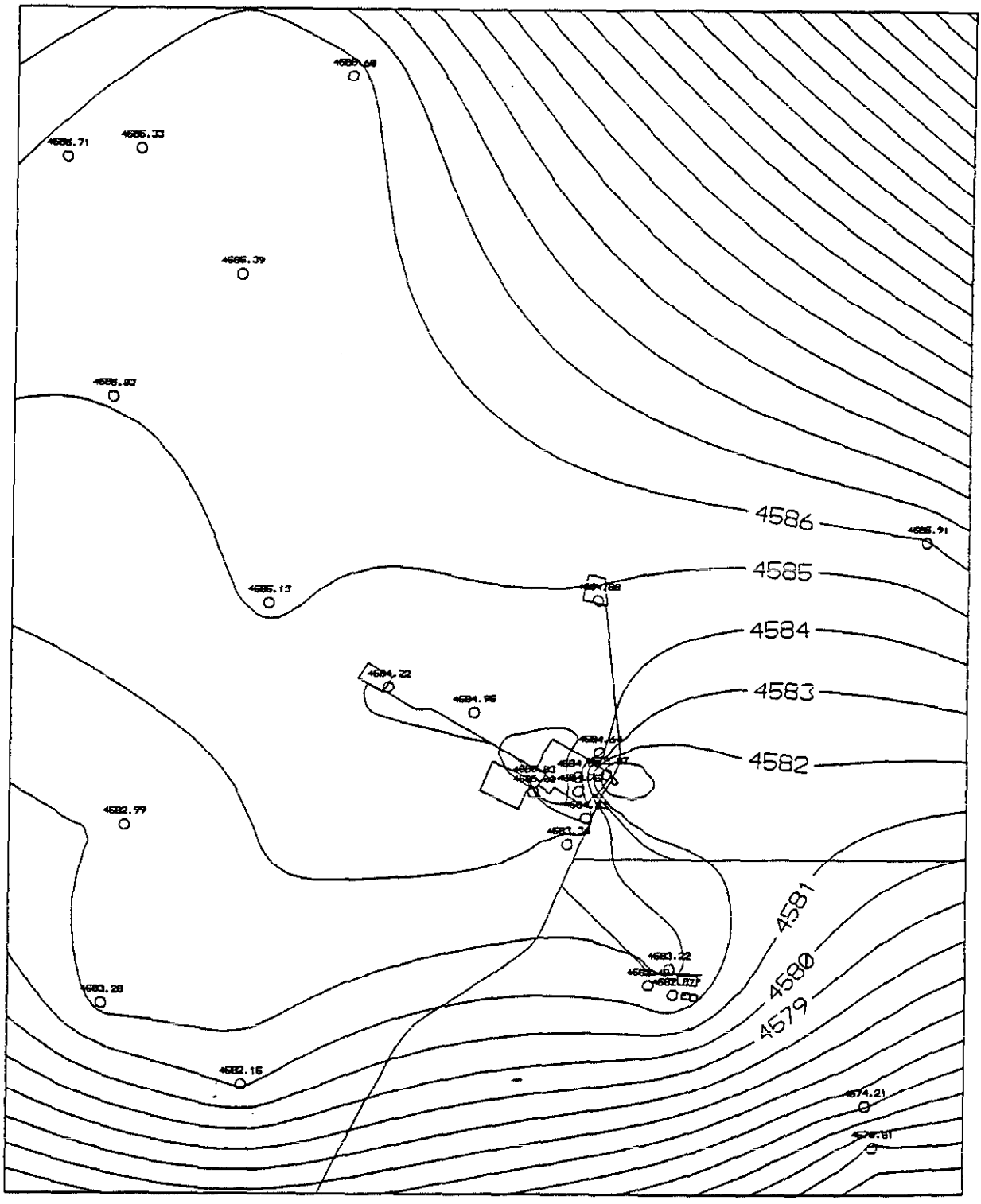
April 1990

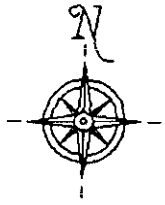




SCALE 1 inch = 5000 Feet

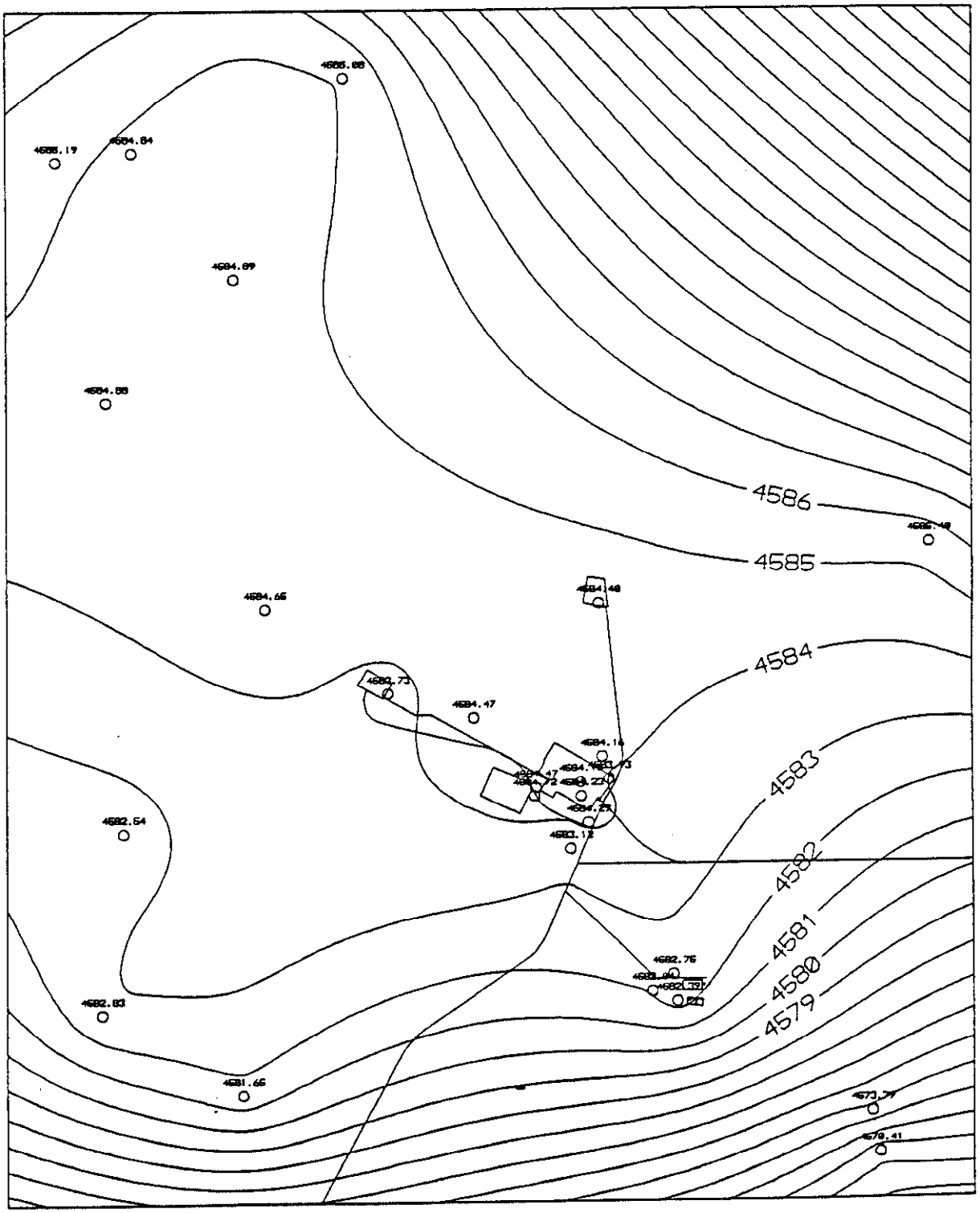
May 1990





SCALE 1 inch = 5000 Feet

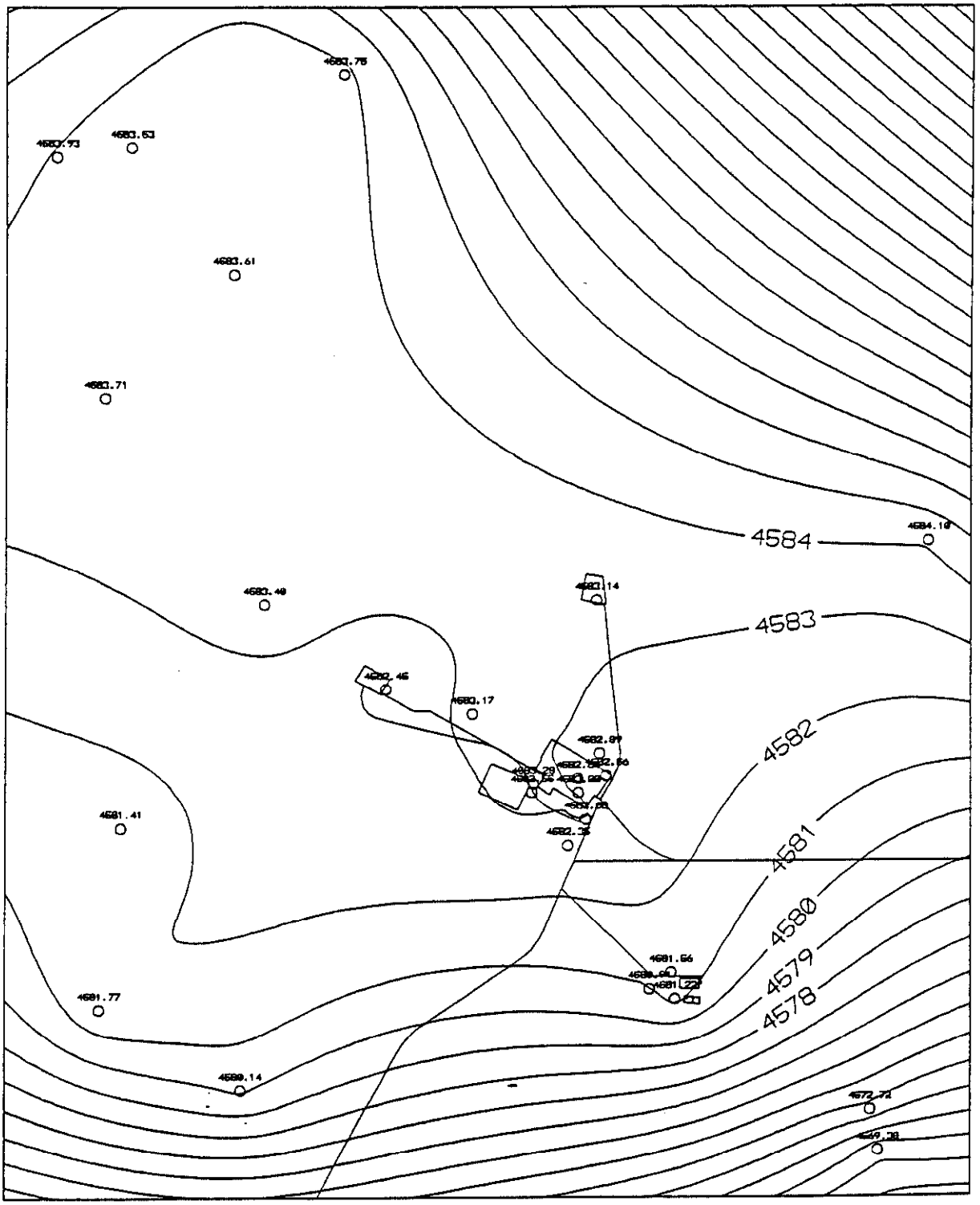
June 1990



N

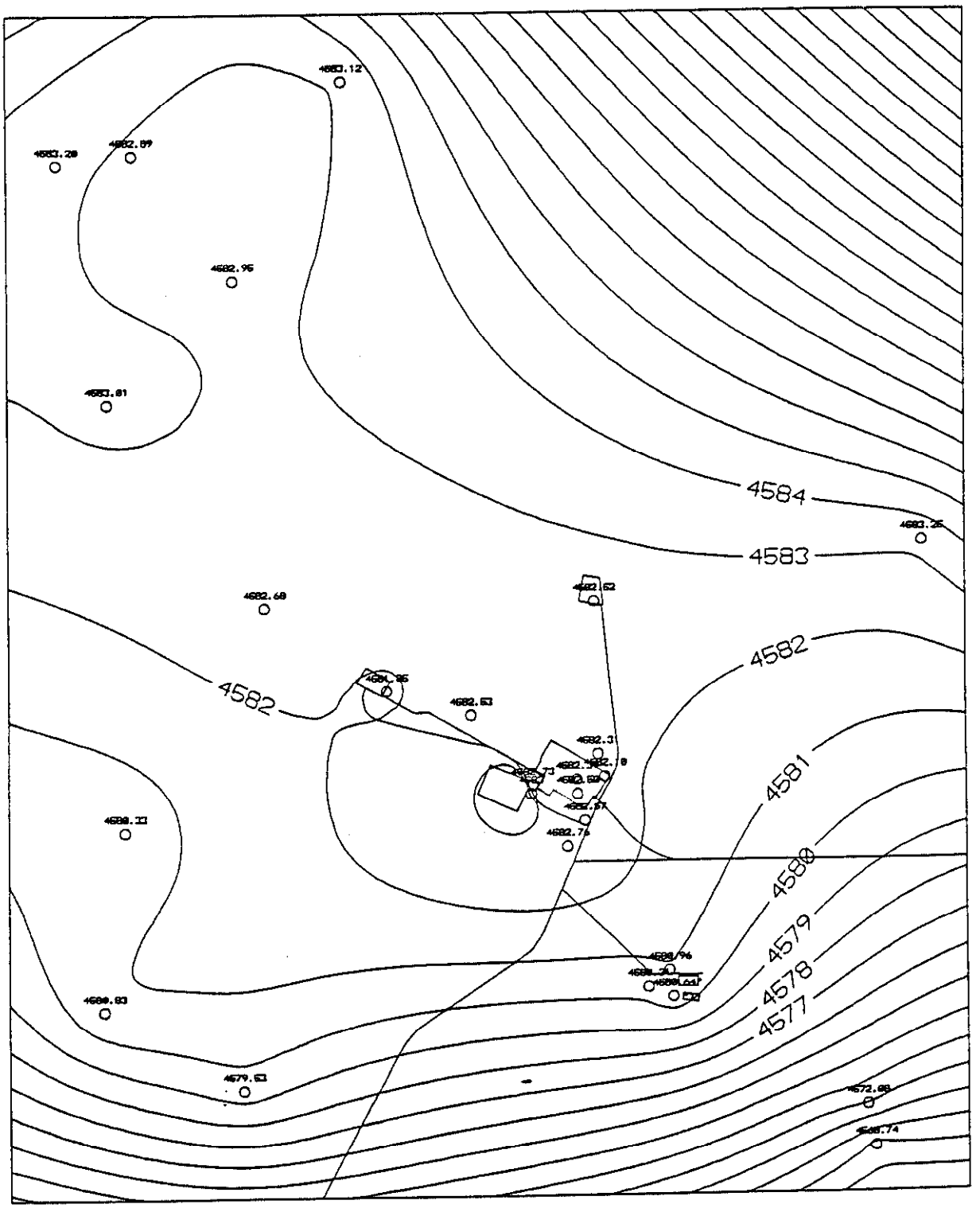
SCALE 1 inch = 5000 Feet

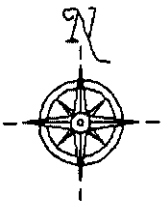
July 1990



SCALE 1 inch = 5000 Feet

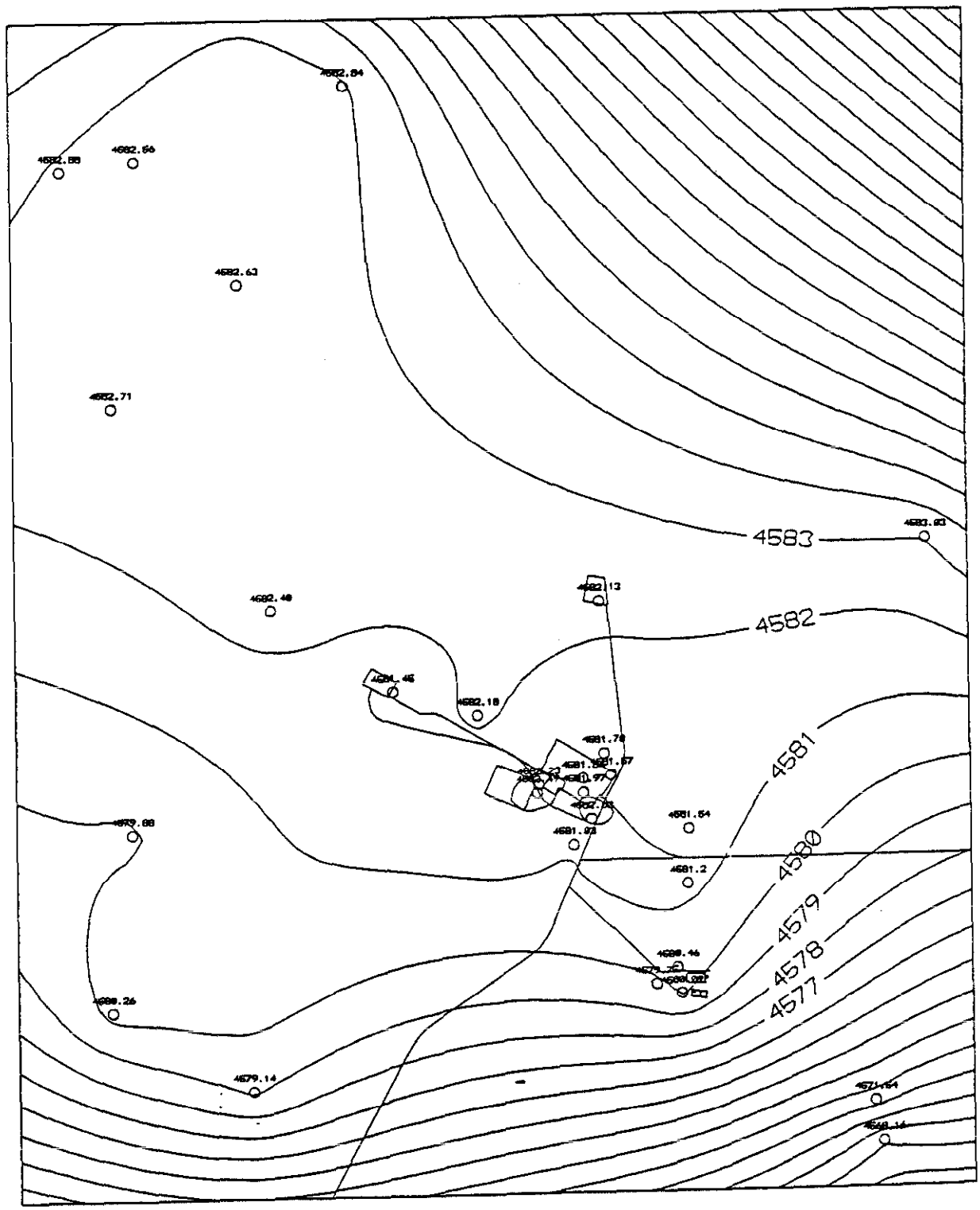
August 1990

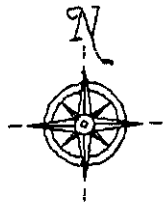




SCALE 1 inch = 5000 Feet

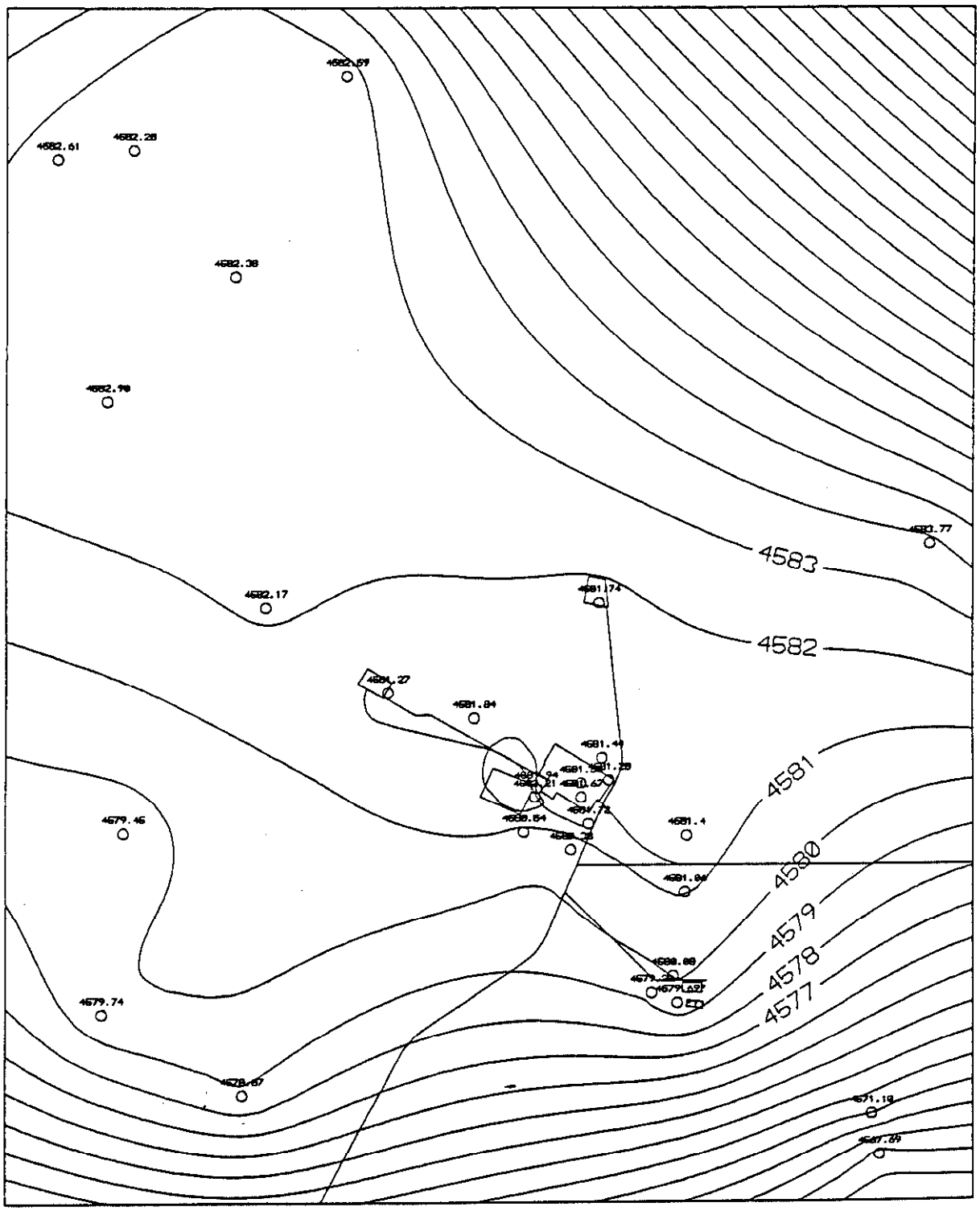
September 1990

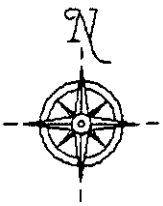




SCALE 1 inch = 5000 Feet

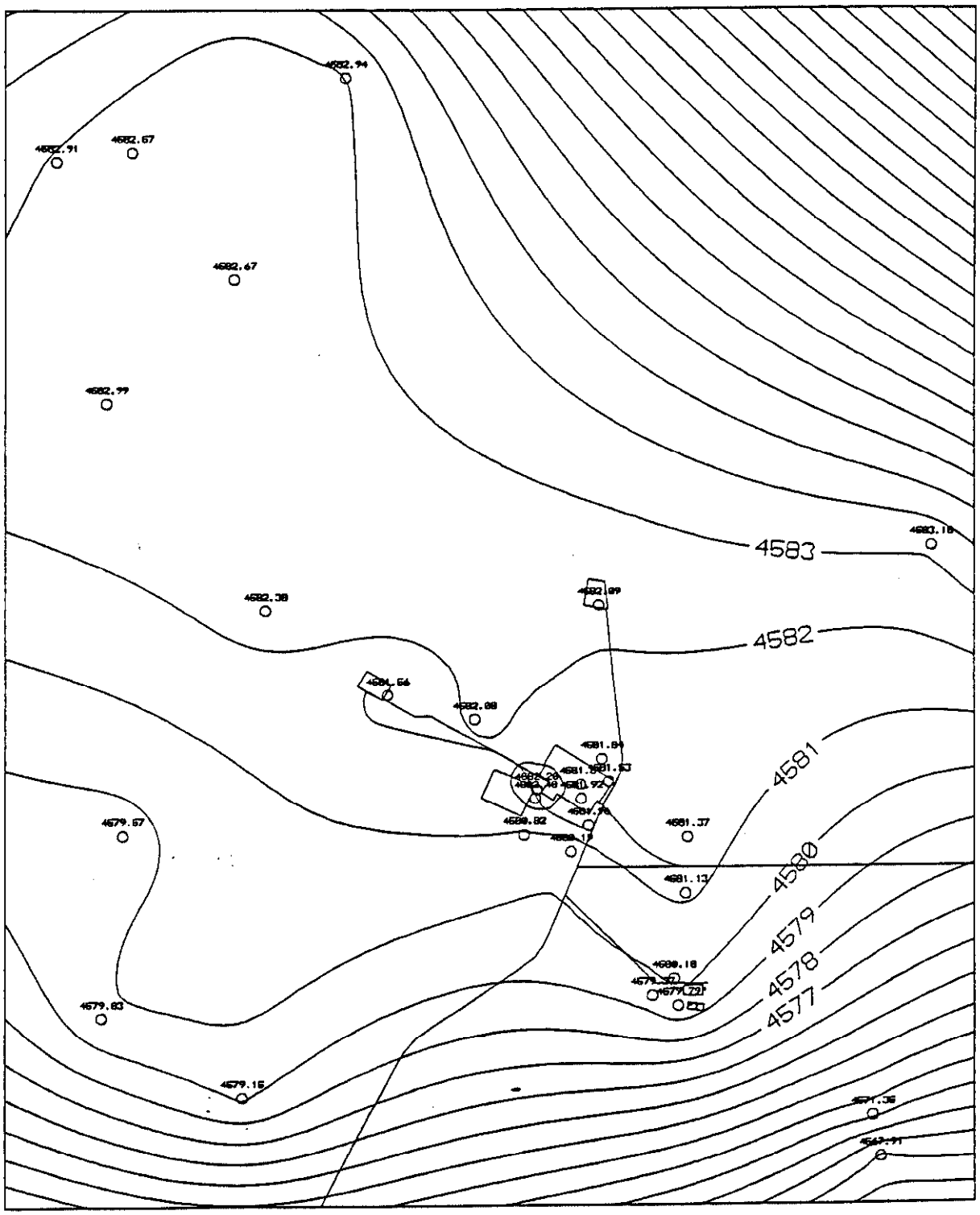
October 1990





SCALE 1 inch = 5000 Feet

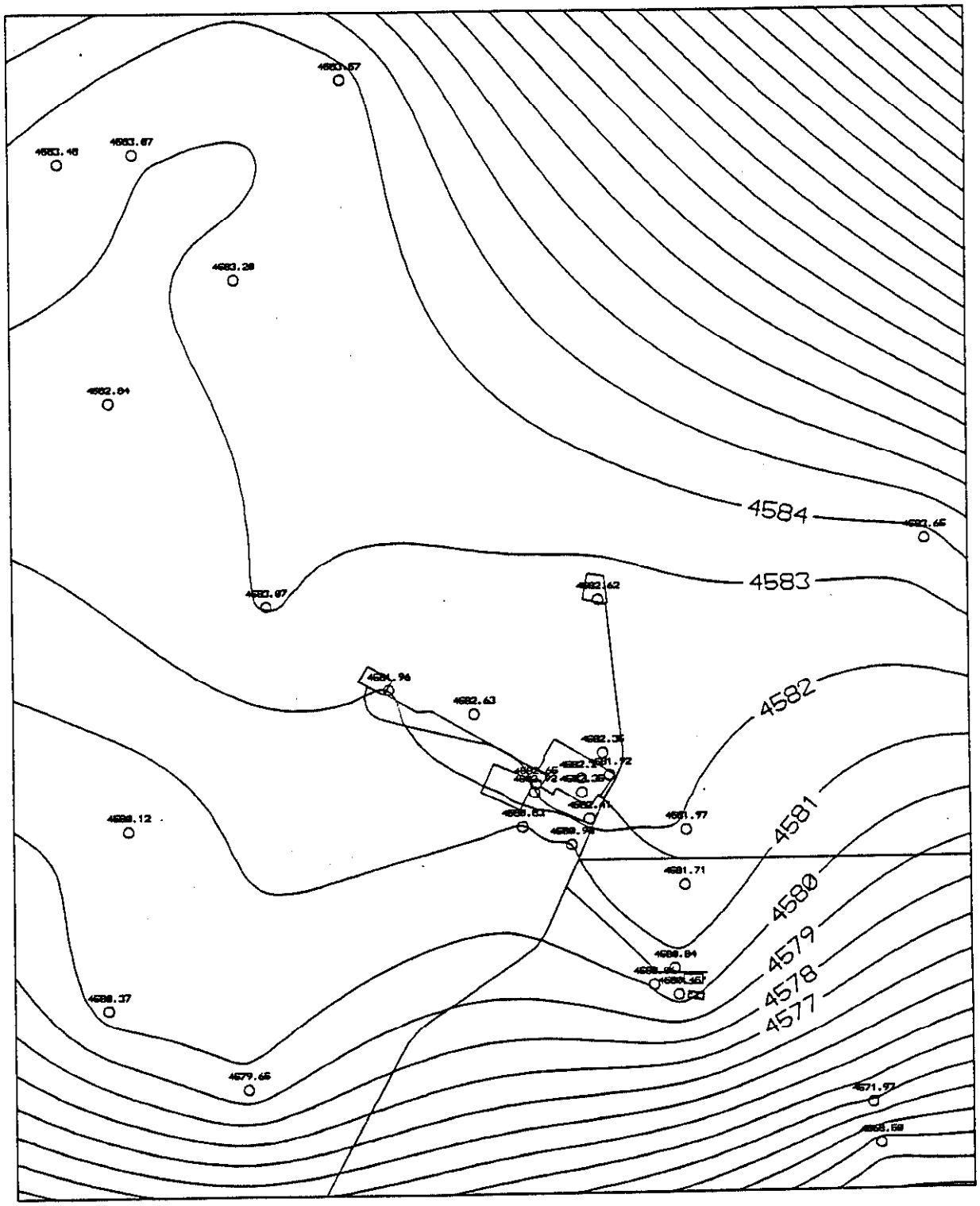
November 1990



N

SCALE 1 inch = 5000 Feet

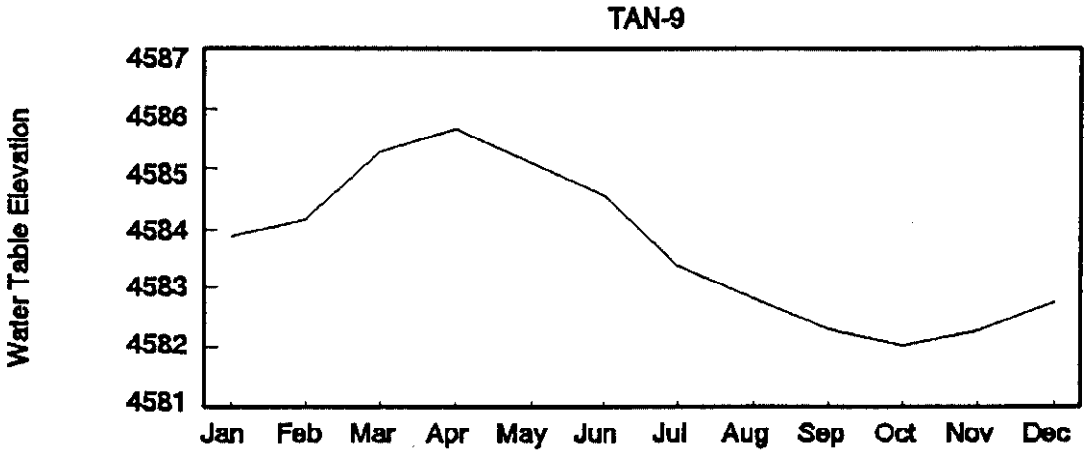
December 1990

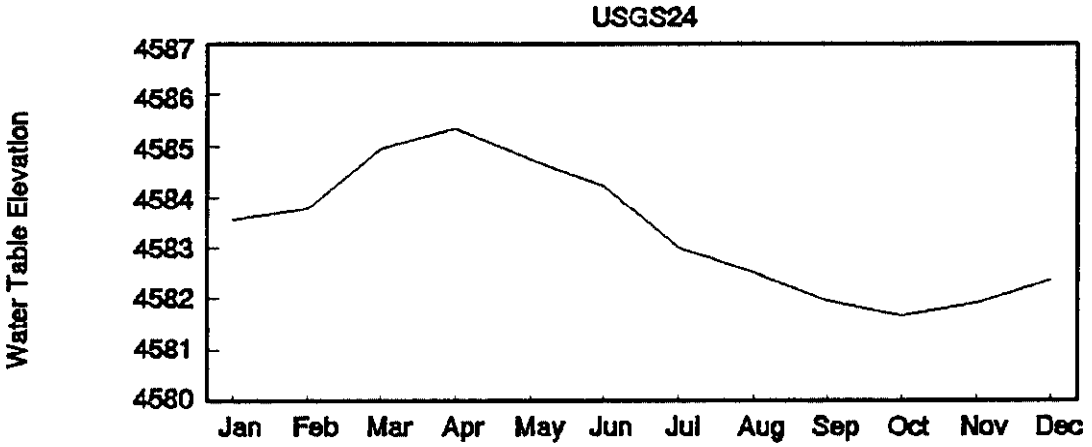


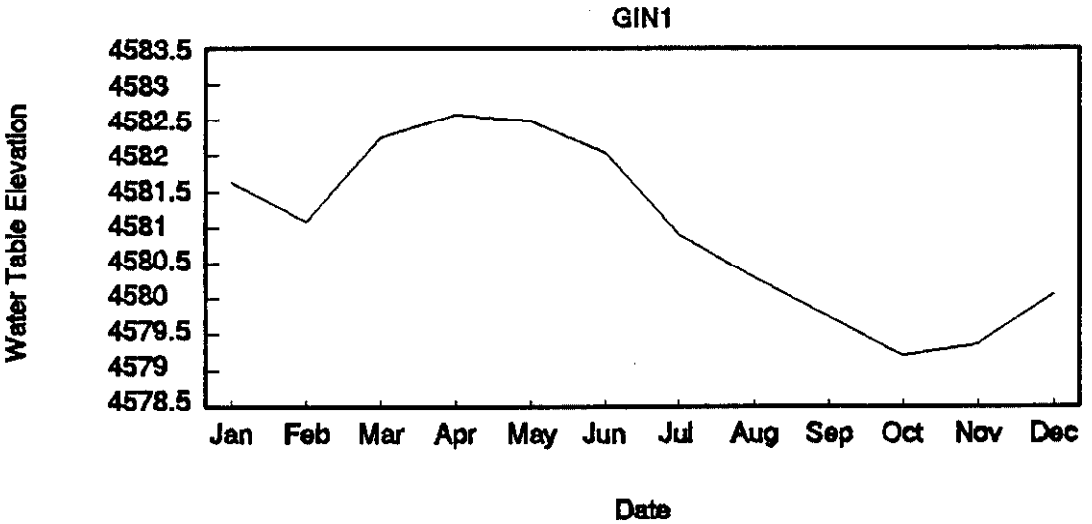
N

SCALE 1 inch = 5000 Feet

Hydrograph

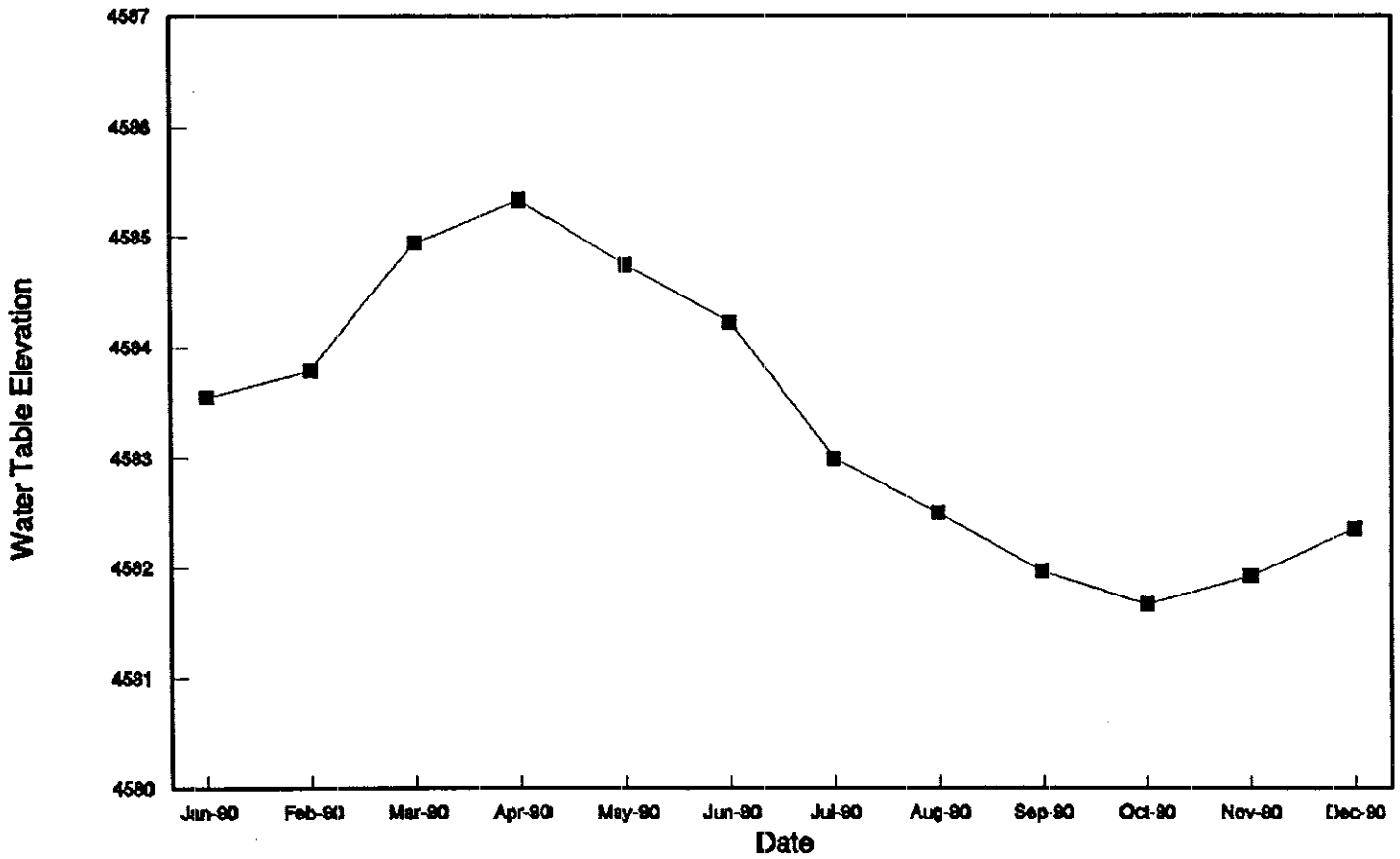

TAN-9
Water Table Elevation
4587
4586
4585
4584
4583
4582
4581
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec


USGS24
Water Table Elevation
4587
4586
4585
4584
4583
4582
4581
4580
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec


GIN1
Water Table Elevation
4583.5
4583
4582.5
4582
4581.5
4581
4580.5
4580
4579.5
4579
4578.5
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Date

Hydrograph

USGS24



INEL RCRA/CERCLA INVESTIGATIONS

TAN GROUNDWATER INVESTIGATION
WATER LEVEL DATA

DATE START _____, 19 _____

DATE END _____, 19 _____

LOGBOOK NO: ERP-140-90

LOGBOOK ASSIGNED TO: Alan Whiley

TAN GROUNDWATER INVESTIGATION

WHEN COMPLETED RETURN TO: D. KIRCHNER
MS: 1403

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

4874.90

MP = ' Above Land Surface

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. ANP 5 OWNER _____

Site Ident. No. [ ] (8–19) Water Level Data [R: 234] [T: A] Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 Midnight Reading, Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321:]

M.P. End Date [322:] M.P. Height [323: 2.9] (ABOVE / BELOW) LSD

MP = Top of well casing

M.P. Remark [324: M.P. H.O. 4874.90] (20–80)

Date M.P. Punched [ ] By ALVRGS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	01/24/1990	237: 287.85	238:	239:			290.75	1520		
235	2/3/90	237: 287.60	238:	239:			290.50	1255	AW & NL	
235	2/28/90	237:	238:	239:			290.11	1319	AW - oil in well	
235	3/28/90	237:	238:	239:			289.45	0959	AW & OK - oil in well	
235	4/25/90	237:	238:	239:			289.12	1210	AW oil in well	
235	5/30/1990	237:	238:	239:	not a good measurement		300.95	1011	AW & OK oil in well	wipad
235	6/18/1990	237:	238:	239:				1000	AW & OK unable to measure due to oil	
235	6/18/1990	237:	238:	239:	292	8.98	290.02	10:18	oil level AW & OK	
236	7/26/1990	237:	238:	239:	292	-.81	291.19		AW & JM	
235	8/23/1990	237:	238:	239:	293.0	1.11	291.89	9:32	AW steel tape	
236	09/19/1990	237:	238:	239:	294.0	2.34	292.34	9:56	Condensation - [illegible]	
236	/ /	237:	238:	239:	294.2	2.12	292.08	10:02	retry measurement - [illegible]	
235	10/24/1990	237:	238:	239:	296.0	4.0	292.00	0933	AW & RS	
236	11/29/1990	237:	238:	239:	296.0	4.18	291.82	0915	AW condensation probe	
235	12/20/1990	237:	238:	239:			292.06	08:54	MP Measurement - [illegible]	
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, destroyed well, surface water effects, other

Method of Measurement [239: A C E G H L R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical log, for, reported, steel tape, electric tape, calibrated electric tape, other

1" MP 212.68
1" MP = 2" above top of box
TOC = 25" above LS

FORM NO. 9-E

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. AN/P 6 OWNER _____

Site Ident. No. [ ] (6–19)

Water Level Data [R=234] [T=A]

Method of W/L Selection from Recorder [240= M N A P] (Mea daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R=320] [T= A D M] (add, delete, modify)

M. P. Begin Date [321 # / /]

M. P. End Date [322 = / /]

M. P. Height [323 = 2.08] ABOVE / BELOW LSD

M.P. = top of 1" nipple.

M P Remark [324 = M.P. NO. 4797] (20–80)

Date M P Punched [/ /] By AW & ES

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	01/24/1990	237 = 210.60	238 =	239 =			212.68	1116		
235 #	2/3/90	237 = 210.52	238 =	239 =			212.60	1221	AW & DK	
235 #	2/28/90	237 =	238 =	239 =			212.23	1532	AW	
235 #	3/28/90	237 =	238 =	239 =			211.58	1136	AW & DK	
235 #	4/25/90	237 =	238 =	239 =			211.23	1350	AW	
235 #	5/30/1990	237 =	238 =	239 =			211.98	0943	AW & CH	
235 #	6/18/1990	237 =	238 =	239 =			212.46	1202	AW & CH	
235 #	7/26/1990	237 =	238 =	239 =			213.71	1210	AW & AM	
235 #	08/23/1990	237 =	238 =	239 =			214.43	1108	AW	
235 #	09/19/1990	237 =	238 =	239 =			214.71	1924	AW	
235 #	10/24/1990	237 =	238 =	239 =			214.94	0822	AW & ES	
235 #	11/29/1990	237 =	238 =	239 =			214.73	1043	AW	
235 #	12/20/1990	237 =	238 =	239 =			214.13	0822	AW	
235 #	12/20/1990	237 =	238 =	239 =	216	1.96	214.04	0832	AW	
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						

Site Status [238 = D E F G H N O P R S T V W X Z]
D: dry, recently; E: flowed; F: flowing; G: nearby, flowing; H: nearby, recently flowing; N: measurement, discontinued; O: obstruction; P: pumping; R: recently pumped; S: nearby, pumping; T: nearby, recently pumped; V: foreign substance; W: well, destroyed; X: surface water effects; Z: other

Method of Measurement [239 = A C E G H L M R S T V Z]
A: airline; C: calibrated airline; E: estimated; G: pressure gage; H: calibrated pressure gage; L: geophysical log; M: manometer; R: reported; S: steel tape; T: electric tape; V: calibrated electric tape; Z: other

F-19

FORM NO. 9 -E

U.S. DEPT. INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. ANP 7 OWNER _____

Site Ident. No. [ ] (6–19)

Water Level Data [R=234] [T: A]

Method of W/L Selection from Recorder [240: M (Max daily value) N (Min daily value) A (1:00 noon Reading) P (Midnight Reading)]

Meas. Point [R: 320] [T: A (add) D (delete) M (modify)]

M. P. Begin Date [321] [/ /]

M. P. End Date [322:] [/ /]

M. P. Height [323:] ABOVE / BELOW LSD

TOC

M. P. Remark [324: M.P. N.O. 4937.01] (20–80)

[ ] Date M. P. Punched [/ /] By _____

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	3/31/90	237	238	239			349.96		AW & JL	
235	2/28/90	237	238	239			349.94		AW	
235	3/28/90	237	238	239			347.89	1105	DK & AW ← (AW WATER INTO ABOVE M)	3-29-90 FLOWING
235	4/25/90	237	238	239			349.26	1318	AW	
235	5/30/1990	237	238	239			350.55	1121	AW & CH	
235	6/18/1990	237	238	239			350.88	1153	AW & CH	
235	7/26/1990	237	238	239			352.20	1140	AW & KM	
235	08/23/1990	237	238	239			352.91	1039	AW	
235	09/11/1990	237	238	239			353.21	1113	AW	
235	10/24/1990	237	238	239			353.46	0842	AW & RS	
235	11/29/1990	237	238	239		353.05	353.50	1009	AW WATER IN GV PIT	
235	12/20/1990	237	238	239			AW TI-EYE 353.17	0946	AW	
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						

Site Status [238: D E F G H N O P R S T V W X Z]
D: dry; E: flowed, recently; F: flowing; G: nearby, flowing; H: nearby, recently flowing; N: measurement discontinued; O: obstruction; P: pumping; R: recently pumped; S: nearby, pumping; T: nearby, recently pumped; V: foreign substance; W: well destroyed; X: surface water effects; Z: other

Method of Measurement [239: A C E G H L M R S T V Z]
A: airline; C: calibrated airline; E: estimated; G: pressure gage; H: calibrated pressure gage; L: geophysical logs; M: manometer; R: reported; S: steel tape; T: electric tape; V: calibrated electric tape; Z: other

F-20

FORM NO. 9-19

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. ANP 9 OWNER _____

Site Ident. No. (8–19) _____ Water Level Data 234: R T: A — Method of W/L Selection from Recorder 240: M (Max daily value) N (Min daily value) A (12:00 noon Reading) P (Midnight Reading)

Meas. Point 320: R T: A (add) D (delete) M (modify)

M. P. Begin Date 321: _____

M. P. End Date 322: _____

M. P. Height 323: 2.04 ABOVE / BELOW LSD

MP = TOC

M.P. Remark 324: M.P. N.O. 479.92 (20–80)

Date M P Punched _____ By AWGS

F-21

235	DATE	WATER LEVEL (BELOW LSD) 237	STATUS 238	METHOD 239	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
	01/24/1990	218.41					220.48	10:10		
	21/31/90	218.27					220.31	9:36	AW JL	
	212/81/90						220.01	11:04	AW	
	3/28/90						219.36	1345	DK+AW	
	4/25/90						219.10	1009	AW	
	5/30/1990						219.11	1326	AW & CH	
	6/18/1990						219.51	1340	AW & CH	
	7/26/1990						220.54	1425	AW & RM	
	08/23/1990						221.18	~~15~~ AW 5-23-90 1357	AW	
	9/11/1990						221.76	1433	AW	
	10/24/1990						222.23	1231	AW & RS	
	11/29/1990						222.01	1206	AW	
	/ /						~~220~~ AW 11-29-90			
	12/20/1990						221.42	11:24	AW	
	/ /									
	/ /									
	/ /									
	/ /									
	/ /									

Is Status 238: D E F G H N O P R S T V W X Z

dry, flowed recently; flowing; nearby, flowing; nearby, recently flowing; measurement discontinued; obstruction; pumping; recently pumped; nearby, pumping; nearby, recently pumped; foreign substance; well destroyed; surface water effects; other

Method of measurement 239: A C E G H L M R S T V Z

airline; calibrated airline; estimated; pressure gage; calibrated pressure gage; geophysical logs; manometer; reported; steel tape; electric tape; calibrated electric tape; other

Method of: A (recently flowing) C (flowing recently discontinued) E G H L — R (pumped) S (pumping recently pumped) T (substance destroyed) V (water effects) Z

FORM NO 9-1904-E

U S DEPT OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. ANP 10 OWNER _____

Site Ident. No. (6–19) _____ Water Level Data 20: R: 234 * T: A * Method of W/L Selection from Recorder 240: M (Max daily value) N (Min daily value) A (8:00 noon Reading) P (Midnight Reading) *

Meas. Point R: 320 * T: A (add) D (delete) M (modify) * M. P. Begin Date 321 * __/__/__ *

M. P. End Date 322: __/__/__ * M. P. Height 323: 1.65 * (ABOVE / BELOW) LSD

M P = Top of casing 4791.55 f ABOVE MSL

M P Remark 324: M.P. N.O. 4791.55 (20–80)

__ * Date M P Punched __/__/__ By AW & GS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	01/24/1990	237: 21 1 2 0 9 9	238:	239:			218.64	1015		
235 #	21 31 90	237: 21 6 8 2	238:	239:			218.47	942	AW & JL	
235 #	2/2/81 90	237:	238:	239:			218.15	1112	AW	
235 #	3/2/81 90	237:	238:	239:			217.50	1351	AW & DK	
235 #	4/2/51 90	237:	238:	239:			217.25	1017	AW	
236 #	5/30/1990	237:	238:	239:			217.34	1333	AW & CH	
235 #	6/18/1990	237:	238:	239:			217.76	1347	AW & CH	
235 #	7/26/1990	237:	238:	239:			218.83	1430	AW & RS	
236 #	08/23/1990	237:	238:	239:			219.47	1404	AW	
235 #	09/19/1990	237:	238:	239:			220.01	1440	AW	
236 #	10/24/1990	237:	238:	239:			220.45	1240	AW & RS	
236 #	11/29/1990	237:	238:	239:			220.20	1213	AW	
235 #	12/20/1990	237:	238:	239:			219.58	1131	AW	
236 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						

Site Status 230: D (dry, recently) E (flowed, recently) F (flowing) G (nearby, flowing recently) H (nearby, recently flowing) N (measurement, discontinued) O (obstruction) P (pumping) R (recently pumped) S (nearby, pumping) T (nearby, recently pumped) V (foreign substance) W (well, destroyed) X (surface, water effects) Z (other)

Method of Measurement: A (steline, calibrated sounder) C (calibrated, estimated) E (pressure gage) G (pressure, calibrated gage) H (geophysical, mar logs) L R (reported) S (steel tape) T (electric tape) V (calibrated, electric tape) Z (other)

mp = 3 1" = 2.73

FORM NO. 9-1. .-E

U.S. DEP ITERIOR
GEOLOGI. SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. FET Disp OWNER _____

Site Ident. No. [ ] 8–19 Water Level Date [R=234] [T: A] Method of W/L Selection from Recorder [240: M H A P] (Mea daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R=320] [T: A D M] (add, delete, modify) M.P. Begin Date [321 #] [/ /]

M.P. End Date [322 =] [/ /] M.P. Height [323 = 2.73] ABOVE / BELOW LSD

M.P. Remark [324 = M.P. N.O. 4784.98] 20–80

~~4784.01' ABOVE MSLE~~ 9-3-91

mP = TOC marked w/black

[ ] 20 Date M.P. Punched [/ /] By AW + GS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	01/24/1990	237 = 188.02	238 =	239 =			201.75	1226		
235 #	02/03/1990	237 = 198.22	238 =	239 =			201.45	1514	JL + AW	
235 #	2/2/81 9.0	237 =	238 =	239 =			201.07	1638	AW	
235 #	3/8/81 9.0	237 =	238 =	239 =			200.41	1446	AW + DK	
235 #	4/2/81 9.0	237 =	238 =	239 =			200.05	1516	AW	
235 #	5/30/1990	237 =	238 =	239 =			200.72	1605	AW & CH	
235 #	6/18/1990	237 =	238 =	239 =			201.26	1507	AW + CH	
235 #	7/26/1990	237 =	238 =	239 =		202.54	~~1545~~	1545	AW + RM	
235 #	08/23/1990	237 =	238 =	239 =			203.14	1532	AW	
235 #	09/11/1990	237 =	238 =	239 =			203.59	1629	AW	
235 #	10/24/1990	237 =	238 =	239 =	206	2.28	203.72	1344	AW & RS	
235 #	11/29/1990	237 =	238 =	239 =			203.43	1537	AW	
235 #	12/26/1990	237 =	238 =	239 =			203.03	1347	AW	
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						

Site Status [238 = D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239 = A C E G H L M R S T V Z]
airline, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric tape, calibrated electric tape, other

F-23

TOC
MP
MP is 11.5 above LSD

.67

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. GIN I OWNER _____

Site Ident. No. [ ] (8–19) Water Level Date [R: 234] [T: A] Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 Midnight Reading, Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321:]

M.P. End Date [322:] M.P. Height [323: 4.6] ABOVE ~~BELOW~~ LSD

MP Moved to TOC 2-3-90 = 7.45 ABOVE LSD

MP = marked 0" 11.5 above LSD

M.P. Remark [324: M.P. N.O. 4788.45] (20–80) ~~4788.58 P ABOVE MSL~~ 9-3-91

Date M.P. Punched [ ] By AW & GS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	11/24/1990	237: 205.86	238:	239:			206.82	1030		
235 #	3/3/90	237: 205.92	238:	239:			207.37	1042	AW & JL	
235 #	2/28/90	237:	238:	239:			206.96	1135	AW	
235 #	3/28/90	237:	238:	239:			206.19	1415	DK & AW	
235 #	4/25/90	237:	238:	239:			205.88	1050	AW	
235 #	5/30/1990	237:	238:	239:			205.96	1408	AW & CH Flowing	well
235 #	6/18/1990	237:	238:	239:			206.41	1422	AW & CH Flowing	well
235 #	8/26/1990	237:	238:	239:			207.54	1445	DKD & RM Flowing	
238 #	8/26/1990	237:	238:	239:			208.14	1434	AW Flowing well	
235 #	9/11/1990	237:	238:	239:			208.70	1513	AW	
238 #	10/24/1990	237:	238:	239:			209.25	1250	AW RS	
238 #	11/29/1990	237:	238:	239:			209.08	1240	AW Flowing well	
238 #	12/20/1990	237:	238:	239:			208.39	12:03	AW	
238 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						
235 #	/ /	237:	238:	239:						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of [A C E G H L] [R S T V Z]

F-24

airline, calibrated, estimated, pressure, calibrated, geophysical, manom... reported, steel, electric, calibrated, other
airline gage pressure gage logs tape tape electric tape

FORM NO. 9-15

-7" temp
1.0 mi tolS

U S DEPT. OF ...RIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY / LOCAL WELL NO. GIN 2 OWNER

Site Ident. No. (8–19) Water Level Data R=234 T:A Method of W/L Selection from Recorder 240: M N A P (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point R=320 T: A D M (add, delete, modify) M. P. Begin Date 321 #

M. P. End Date 322: M. P. Height 323: 1.58 ABOVE / BELOW LSD = 1.58

MP moved T TOC 2-3-90

MP = 1.0 above LS

4788.23 ft ABOVE MSL 9-3-91

M.P. Remark 324: M.P. N.O. 4788.26

Date M P. Punched By AW 0655

235	DATE	237	WATER LEVEL (BELOW LSD)	238	STATUS	239	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	01/24/1990	237	204.97	238		239				205.97	1045		
235 #	21/31/90	237	204.83	238		239				206.41	1033	AW & DL	
235 #	212/81/90	237		238		239				205.97	1146	AW	
235 #	3/28/90	237		238		239				205.20	1426	AW & DR	
235 #	4/25/90	237		238		239				204.90	1104	AW, Hard to get down	
235 #	5/30/1990	237		238		239				205.09	1419	AW & CH "Blowing well"	
235 #	6/18/1990	237		238		239				205.57	1435	AW & CH Probe got stuck in well	
235 #	7/26/1990	237		238		239				206.75	1455	AW & RM Blowing	
238 #	08/23/1990	237		238		239				207.35	1445	AW Blowing well	
235 #	09/17/1990	237		238		239				207.87	1525	AW	
238 #	10/24/1990	237		238		239						AW & RS PROBE STUCK IN WELL	
238 #	11/28/1990	237		238		239						Probe retrieved by the Lord	
235 #	/ /	237		238		239							
238 #	/ /	237		238		239							
235 #	/ /	237		238		239							
235 #	/ /	237		238		239							
235 #	/ /	237		238		239							
235 #	/ /	237		238		239							
235 #	/ /	237		238		239							

Status 238: D E F G H N O P R S T V W X Z
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement 239: A C E G H L M R S T V Z
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

F-25

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. G1N-3 OWNER _____

Site Ident. No. [ ] 6–19 Water Level Data [R=234] 20 [T:A] Method of W/L Selection from Recorder [240: M H A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321 # / /]

M.P. End Date [322: / /] M.P. Height [323: 4.9] ABOVE / BELOW LSD

MP MOVED TO TOC 2-3-90 = 2.13

MP – MARKED, 6" below TOC
-17.7/8 = elevation

M.P. Remark [324: M.P. N.O. 4783.81] 20–80

Date M.P. Punched [/ /] By _____

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 # 01/24/1990	237: 205.26	238:	239:			206.75	1038		
235 # 01/31/1990	237: 205.11	238:	239:			207.24	1029	AW+UL	
235 # 02/08/1990	237:	238:	239:			206.81	1153	AW	
235 # 02/08/1990	237:	238:	239:			206.05	1430	AW & DR	
235 # 02/15/1990	237:	238:	239:			205.74	1110	AW	
235 # 03/01/1990	237:	238:	239:			205.94	1412	AW & CH	
235 # 03/08/1990	237:	238:	239:			206.42	1440	AW & CH	
235 # 03/26/1990	237:	238:	239:			207.59	1500	DR & CH	
235 # 04/23/1990	237:	238:	239:			208.17	1553	AW Blowing well	
235 # 04/11/1990	237:	238:	239:			208.72	1530	AW	
235 # 10/24/1990	237:	238:	239:	212.0	2.88	209.12	1314	AW & RS	
235 # 11/29/1990	237:	238:	239:			209.02	1254	AW Blowing Well	
235 # 12/20/1990	237:	238:	239:			208.36	1215	AW Frost in well	
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water affects, other

Method of Measurement [A C E G H L M R S T V Z]
other, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-196

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. GIN 4 OWNER _____

Site Ident. No. _____ Water Level Data R=234 T: A Method of W/L Selection from Recorder 240: M N A P

Meas. Point R: 320 T: A D M (add, delete, modify) M. P. Begin Date 321:

M. P. End Date 322: M. P. Height 323: 0.0 ABOVE LSD BELOW

M.P. Remark 324: M.P. NO. 478S31

MP MOVED TO TOC 2-3-90 = 1.73

MP 7 TOC above
8 3/4 = .73

Date M P Punched _____ By _____

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
01/24/1990	205.23					206.23	1050		
210/31/990	205.12					206.85	1036	206.85 AW+VL	
212/81/90						206.40	1142	AW	
3/2/81/90						205.62	1420	AW+DK	
4/2/51/90						205.32	1056	AW	
5/30/90						~~204.97~~			
5/30/1990						205.51	1424	AW & CH	
6/18/1990						206.00	1428	AW&CH Blowing well	
7/26/1990						207.16	1450	AW KM	
08/23/1990						206.76	1440	AW Blowing well	
09/19/1990						208.30	1520	AW	
10/24/1990				211.0	2.31	208.69	1308	AW & RS	
11/29/1990						208.60	1246	AW Blowing Well	
12/20/1990						207.92	1209	AW	
/ /									
/ /									
/ /									
/ /									
/ /									

Status 238: D E F G H N O P R S T V W X Z

dry, flowed recently; flowing; nearby flowing; nearby recently flowing; measurement discontinued; obstruction; pumping; recently pumped; nearby pumping; nearby recently pumped; foreign substance; well destroyed; surface water effects; other

Method of measurement 239: A C E G H L M R S T V Z

airline; calibrated airline; estimated; pressure gage; calibrated pressure gage; geophysical logs; meter; reported; steel tape; electric tape; calibrated electric tape; other

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TOC = [illegible] 94

TOC above MP = 10 3/8" = .87
MP above LS = 15" = 1.25

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. GTN 5 OWNER _____

Site Ident. No. [ ] 6–19 Water Level Data [R: 234] [T: A] 20 Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 Midnight Reading, Noon Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M. P. Begin Date [321 # / /]

M. P. End Date [322: / /] M. P. Height [323: 1.25] ABOVE / BELOW LSD

MP = marked

M. P. Remark [324: M.P. NO. 478.41] 20–80

MP MOVED TO TOC 2-3-90 = 2.11 ABOVE LSD

20 Date M. P. Punched [/ /] By AWYGS

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 # 01/24/1990	237: 204.95	238:	239:			206.20	1055		
235 # 01/31/90	237: 204.85	238:	239:			206.96	1048	AW & JL	
235 # 02/08/90	237:	238:	239:			206.49	1200	AW	
235 # 03/08/90	237:	238:	239:			205.75	1434	AW & DK	
235 # 04/25/90	237:	238:	239:			205.44	1117	AW	
235 # 05/30/1990	237:	238:	239:			205.69	1428	AW & CH "BLOWING"	
235 # 06/08/1990	237:	238:	239:			206.16	1446	AW & KW "BLOWING"	
235 # 07/26/90	237:	238:	239:			207.35	1505	AW & RM Blowing	
235 # 08/23/1990	237:	238:	239:			207.95	1506	AW Blowing well	
235 # 09/07/1990	237:	238:	239:			208.45	1537	AW	
235 # 10/24/1990	237:	238:	239:	212.0	3.17	208.83	1320	AW & RS "Blowing Well"	
235 # 11/29/1990	237:	238:	239:			208.73	1259	AW Blowing well	
235 # 12/20/1990	237:	238:	239:			208.07	1320	AW	
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing recently, nearby discontinued, measurement, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
tape, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. IET Disp OWNER _____

Site Ident. No. [ ] Water Level Data [R: 234] [T: A] Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321:]

M.P. End Date [322:] M.P. Height [323: 2.58] (ABOVE / BELOW LSD)

MP = top of casing (bottom of pump box)

M.P. Remark [324: M.P. N.O. 4794.59]

Date M.P. Punched [ ] By AW+GS

	DATE (MO DAY YR)	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	01/24/1992	237: 208.03	238:	239:			210.61	1320		
235	02/03/1990	237: 202.99	238:	239:			210.57	1427	AW & JL	
235	2/28/90	237:	238:	239:			210.16	1231	AW	
235	3/28/90	237:	238:	239:			209.43	0903	AW & DK	
235	4/25/90	237:	238:	239:			208.15	0852	AW	
235	5/30/1990	237:	238:	239:			209.21	0915	AW & CH	
235	6/18/1990	237:	238:	239:			210.19	0920	AW & JJ	
235	7/26/1990	237:	238:	239:			211.45	0900	AW + RM	
235	08/23/1990	237:	238:	239:			212.07	1229	AW	
235	09/19/1990	237:	238:	239:			212.46	1325	AW DELOW TAPE	
235	10/24/1990	237:	238:	239:			213.05	1108	AW & RS	
235	11/29/1990	237:	238:	239:			212.50	1450	AW	
235	12/20/1990	237:	238:	239:			211.97	1022	AW	
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						

Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. No Name OWNER _____

Site Ident. No. [ ] 8 19 Water Level Data [R=234] 20 [T: A] Method of W/L Selection from Recorder [240: M N A P] Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading

Meas. Point [R: 320] [T: A D M] add, delete, modify M. P. Begin Date [321 / /]

M. P. End Date [322: / /] M. P. Height [323: 0.0] ABOVE/BELOW LSD

MOVED MP 2-3-90 1.30 MP=TOC

MP= below top of casing .5'

M P Remark [324: M.P. N.O. 4785.64] 20

MOVED MP 8-23-90 to 1" NIPPLE 1.53 80

20 Date M. P. Punched [/ /] By AW+GS

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DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 # 01/24/1990	237: 202.81	238:	239:			203.31	0910		
235 # 02/03/90	237: 202.64	238:	239:			203.94	8:59		
235 # 02/28/90	237:	238:	239:			203.57	0943		
235 # 03/28/90	237:	238:	239:			202.90	1245	DK & AW	
235 # 04/25/90	237:	238:	239:			202.52	09:29	AW	
235 # 05/30/1990	237:	238:	239:			202.70	1255	AW & CH	
235 # 06/18/1990	237:	238:	239:			203.15	1303	AW & CH	
235 # 07/06/1990	237:	238:	239:			204.28	1321	AW & RM	
235 # 08/23/1990	237:	238:	239:			205.36	1319	AW	
235 # 09/11/1990	237:	238:	239:			205.81	1355	AW	
235 # 10/24/1990	237:	238:	239:			206.24	1023	AW & GS	
235 # 11/29/1990	237:	238:	239:			206.12	1109	AW	
235 # 12/20/1990	237:	238:	239:			205.57	1054	AW	
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						

Site Status [230: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing recently, nearby discontinued flowing, measurement, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [2 C E G H L M R S T V Z]
line, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical log, manome ... reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. 2nd Owsley OWNER _____

Site Ident. No. [ ] 8–19

Water Level Data [R=234] [T: A]

Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify)

M. P. Begin Date [321: / /]

M. P. End Date [322: / /]

M. P. Height [323: 2.2] ABOVE / BELOW LSD

MP = Top of casing

M.P. Remark [324: M.P. No. 4787.65] 20–80

[ ] 20

Date M. P. Punched [/ /] By AW & GS

235 #	DATE	237 = WATER LEVEL (BELOW LSD)	238 = STATUS	239 = METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	2/24/1990	219.17	238 =	239 =			222.18	0954		
235 #	/ /		238 =	239 =			~~222.18~~			
235 #	2/3/90	219.89	238 =	239 =			222.10	1007	AW & VL	
235 #	2/28/90		238 =	239 =			221.82	1047	AW	
235 #	3/28/90		238 =	239 =			221.15	1400	AW & DK	
235 #	4/25/90		238 =	239 =			221.00	1031	AW	
235 #	5/30/1990		238 =	239 =			221.050	1346	AW & CH	
235 #	6/18/1990		238 =	239 =			221.44	1402	AW & CH	
235 #	7/26/1990		238 =	239 =			221.43	1410	AW & RM	
235 #	08/23/1990		238 =	239 =			222.91	1418	AW	
235 #	09/19/1990		238 =	239 =			223.42	1454	AW	
235 #	10/24/1990		238 =	239 =			223.91	1219	AW & RS	
235 #	11/29/1990		238 =	239 =			223.72	1225	AW	
235 #	12/21/1990		238 =	239 =			222.99	1145	AW.	
235 #	/ /		238 =	239 =						
235 #	/ /		238 =	239 =						
235 #	/ /		238 =	239 =						
235 #	/ /		238 =	239 =						
235 #	/ /		238 =	239 =						

Site Status [230: D E F G H H O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. P4 W-1 OWNER _____

Site Ident. No. [ ] 8 19 Water Level Data R=234 T: A Method of W/L Selection from Recorder 240: M N A P
Max daily value Min daily value 12:00 noon Reading Midnight Reading

Meas. Point R: 320 T: A D M (add delete modify) M. P. Begin Date 321 / /

M. P. End Date 322 : / / M. P. Height 323 : 1.62 ABOVE BELOW LSD

MP = TOC

M. P. Remark 324 : M.P. N.O. 4897.62 20 80

Date M. P. Punched / / By AW+GS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	12/4/1990	237: 31.04	238:	239:			312.66	1420		
235	2/3/90	237: 31.82	238:	239:			312.44	1323	AW+JL	
235	2/28/90	237:	238:	239:			312.10	1422	AW	
235	3/28/90	237:	238:	239:			311.28	1044	AW+DK	
235	4/25/90	237:	238:	239:			311.13	1301	AW	
235	5/30/1990	237:	238:	239:			311.91	1107	AW & AH	
235	6/28/1990	237:	238:	239:			312.43	1112	AW & CH	
235	7/26/1990	237:	238:	239:			313.69	11:30	AW & RM	
235	08/23/1990	237:	238:	239:			314.42	10:25	AW	
235	09/19/1990	237:	238:	239:			314.74	1059	AW	
235	10/24/1990	237:	238:	239:			315.01	0906	AW & GS	
235	11/29/1990	237:	238:	239:			314.71	0967	AW	
235	12/20/1990	237:	238:	239:			314.14	0936	AW	
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						

Site Status 238: D E F G H N O P R S T V W X Z
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement A C E G H L R S T V Z
tether, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical log, meas., reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9– E

U.S. DEPT. TERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. P 4 U2-2 OWNER _____

Site Ident. No. _____ Water Level Data R=234 T:A Method of W/L Selection from Recorder 240: M N A P

Meas. Point R: 320 T: A D M M. P. Begin Date 321 /

M. P. End Date 322 / M. P. Height 323: 1.92 ABOVE BELOW LSD MP = ~~1.92~~ TOP OF HINGE

M P. Remark 324: M.P. N.O. 4893.06

Date M. P. Punched / By AW465

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 1/24/1990	237: 306.73	238:	239:			308.65	1416		
235 2/3/90	237: 306.46	238:	239:			308.38	1317	AW & ESU	
235 2/28/90	237:	238:	239:			307.97	1414		
235 3/28/90	237:	238:	239:			307.33	1038	AW+DK	
235 4/25/90	237:	238:	239:			307.01	1254	AW	
235 5/30/1990	237:	239:	239:			307.73	1100	AW & CH "worked obsidian"	
235 6/18/1990	237:	238:	239:			308.22	11:11	AW & CH	
235 8/26/1990	237:	238:	239:			309.53	11:20	AW + RM	
238 08/23/1990	237:	238:	239:			310.17	10:18	AW	
235 09/19/1990	237:	238:	239:			310.50	10:49	AW	
238 10/24/1990	237:	238:	239:			310.78	0859	AW & RS	
238 11/29/1990	237:	238:	239:			310.49	0950	AW	
235 12/20/1990	237:	238:	239:			309.99	0930	AW	
238 / /	237:	238:	239:						
235 / /	237:	238:	239:						
235 / /	237:	238:	239:						
235 / /	237:	238:	239:						
235 / /	237:	238:	239:						
235 / /	237:	238:	239:						

Site Status 238: D E F G H N O P R S T V W X Z
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement 239: A C E G H L M R S T V Z
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. Pa W 3 OWNER _____

Site Ident. No. [ ] Water Level Date [R=234] [T:A] Method of W/L Selection from Recorder [240: M N A P]

Meas. Point [R: 320] [T: A D M] M. P. Begin Date [321:]

M. P. End Date [322:] M. P. Height [323: 2.19] ABOVE BELOW LSD

MP = TIC = 26.35
= 2.19'
above LSD

M. P. Remark [324: M.P. H.O. 4987.45]

Date M. P. Punched [ ] By AWT&S

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	01/24/1990	390.13					302.32	1427		
235	02/03/1990	299.95					302.14	1336	AW & VL	
235	2/28/90						301.84	1358	AW	
235	3/28/90						300.82	1028	AW & DK	
235	4/25/90						300.98	1240	AW	
235	5/30/1990						301.85	1045	AW & CH	
235	6/18/1990					CH	303.37	1032	AW & CH	
235	7/26/1990						303.70	1110	AW & KM	
235	08/23/1990						304.33	1003	AW	
235	09/19/1990						304.61	1036	AW	
235	10/24/1990						304.86	0849	AW & RS	
235	11/29/1990						304.51	0940	AW	
235	12/20/1990						303.88	0921	AW	
235	/ /									
235	/ /									
235	/ /									
235	/ /									
235	/ /									
235	/ /									

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing recently flowing, nearby discontinued, measurement, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [A C E G H L R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, reported, steel tape, electric tape, calibrated electric tape, other

F-34

FORM NO. 9-196

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. PSTF OWNER _____

Site Ident. No. [ ] (8–19)

Water Level Data R:234 T:A

Method of W/L Selection from Recorder 240: M (Max daily value) N (Min daily value) A (12:00 midnight Reading) P (Noon Reading)

Meas. Point R:320 T: A (add) D (delete) M (modify)

M. P. Begin Date 321: [/ /]

M. P. End Date 322: [/ /]

M. P. Height 323: 4.2 ABOVE LSD

MP = .375' below top of casing

M.P. Remark 324: M.P. N.O. 4787.72

MOVED MP TO TOC 2-3-90: 1.80 BELOW ABOVE LSD

MP MOVED TO 1" NAPPE 8-23-90 2.03

Date M P. Punched [/ /] By AW+GS

F-35

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235: 01/24/1990	237: 204.00	238:	239:			205.42	0850		
235: / /	237: 208.01	238:	239:			205.83	0850	AW + JL	
235: 2/28/90	237:	238:	239:			205.45	10:01	AW	
235: 3/28/90	237:	238:	239:			204.72	1327	AW + DK	
235: 4/25/90	237:	238:	239:			204.36	09:13	AW (well sucking)	
235: 5/30/1990	237:	238:	239:			204.44	1243	AW & CH "well blowing"	
235: 6/18/1990	237:	238:	239:			204.89	12-1	AW & CH "well blowing"	
235: 7/26/1990	237:	238:	239:			205.95	1010	AW & KM "well sucking"	
235: 08/23/1990	237:	238:	239:			206.89	1309	AW "Well Blowing"	
235: 09/19/1990	237:	238:	239:			207.46	1344	AW	
235: 10/24/1990	237:	238:	239:			207.98	1017	AW + RS "Well Blowing"	
235: 11/29/1990	237:	238:	239:			207.89	1054	AW "Well Blowing"	
235: 12/20/1990	237:	238:	239:			207.35	1045	AW	
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						

Site Status 238: D E F G H N O P R S T V W X Z

D = dry, E = flowed recently, F = flowing, G = nearby flowing, H = nearby recently flowing, N = measurement discontinued, O = obstruction, P = pumping, R = recently pumped, S = nearby pumping, T = nearby recently pumped, V = foreign substance, W = well destroyed, X = surface water affects, Z = other

Method of Measurement 239: A C E G H I M R S T V Z

A = airline, C = calibrated airline, E = estimated, G = pressure gage, H = calibrated pressure gage, I = geophysical logs, M = manometer, R = reported, S = steel tape, T = electric tape, V = calibrated electric tape, Z = other

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FORM NO 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

(612)

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

MP is .46' from top of pad
MP is 1.46' from floor

COUNTY _____ LOCAL WELL NO. TAN-1 OWNER _____

Site Ident. No. [ ] 8–19 Water Level Data [R=234] [T: A] Method of W/L Selection from Recorder [240: M N A P] (Mea daily value, Min daily value, Recent Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M. P. Begin Date [321:]

M. P. End Date [322:] M. P. Height [323: 1.46] ABOVE / BELOW LSD

MP = Top of 1" pipe nipple

M.P. Remark [324: M.P. No. 479 3]

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Date M P Punched [ ] By _____

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	1/24/1990	206.45					207.91	1240	AW & GS	
235	2/3/90	206.22					207.68	1422	AW & IL	
235	2/28/90						207.25	1455	AW	
235	3/28/90						206.56	1505	AW & DK	
235	4/25/90						206.23	1458	AW	
235	5/30/1990						212.26	1532	AW & CH pumping 1060 gpm	
235	6/18/1990						207.20	1518	AW & CH	
235	7/26/1990						208.57	1540	AW & RM	
235	08/23/1990						209.03	1522	AW	
235	09/19/1990						207.56	1620	AW	
235	10/24/1990				212.0	2.15	209.85	1332	AW & RS	
235	11/29/1990						209.60	1510	AW	
235	12/20/1990						209.21	1337	AW	
235	/ /									
235	/ /									
235	/ /									
235	/ /									
235	/ /									
235	/ /									

Site Status [230: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [23 A C E G H L M R S T V Z]
air, calibrated orifice, estimated, pressure gage, calibrated pressure gage, graphical, manometer gage, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAM-2 OWNER _____

Site Ident. No. (8–19) _____ Water Level Data (20) R: 234 X T: A X Method of W/L Selection from Recorder 240: M (Max daily value) N (Min daily value) A (12:00 noon Reading) P (Midnight Reading) X

Meas. Point R: 320 X T: A (add) D (delete) M (modify) X M. P. Begin Date 321 X

M. P. End Date 322: X M. P. Height 323: 0 ABOVE / BELOW LSD

M.P. Remark 324: M.P. NO. 47A4.84 (20–80)

20 X Date M.P. Punched By AW & GS

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DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235: 1/24/1990	237:	238:	239:				12:45	Unable to measure because of oil	
235: / /	237:	238:	239:						
235: 3/2/81	237:	238:	239:				15:09	DK&AW - [illegible]	
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
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235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						

Site Status 230: D E F G H N O P R S T V W X Z

D: dry, flowed, recently; E: flowing; F: flowing; G: nearby, recently flowing; H: nearby, discontinued; N: measurement, obstruction; O: pumping; P: recently pumped; R: nearby, pumping; S: nearby, recently pumped; T: foreign, substance; V: well, destroyed; W: surface, water; X: other effects; Z: other

Method of Measurement 239: A C E G H L M R S T V Z

A: airline; C: calibrated, airline; E: estimated; G: pressure, gage; H: calibrated, pressure gage; L: geophysical, logs; M: manometer; R: reported; S: steel, tape; T: electric, tape; V: calibrated, electric tape; Z: other

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 3 OWNER _____

Site Ident. No. [ ] Water Level Data [R=234] [T=A] Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R=320] [T: A D M] (add, delete, modify) M. P. Begin Date [321: / /]

M. P. End Date [322: / /] M. P. Height [323: 2.2] ABOVE/BELOW LSD

M.P. Remark [324: M.P. N.O. 4792.80]

Date M. P. Punched [/ /] By AW & GS

MP is top of 4" casing

235	DATE	237	WATER LEVEL (BELOW LSD)	238	STATUS	239	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	01/24/1990	237	207.18	238		239				209.30	1331		
235	2/31/90	237	206.93	238		239				209.05	1433	AW & GSJL	
235	2/2/81/90	237		238		239				208.66	1240	AW	
235	3/2/81/90	237		238		239				207.95	0908	AW & DK	
235	4/25/1/90	237		238		239				207.67	0901	AW	
235	5/30/1/90	237		238		239				208.18	0922	AW & CH	
235	6/18/1/990	237		238		239				208.64	0929	AW & DK	
235	7/26/1/90	237		238		239				209.91	0910	JKW & KM	
238	08/23/1/90	237		238		239				210.99	1248	AW decon tape	
235	09/19/1/90	237		238		239				211.10	1318	AW	
238	10/24/1/90	237		238		239				211.36	1101	AW & RS	
238	11/29/1/90	237		238		239				210.96	1457	AW	
235	12/20/1/90	237		238		239				210.45	1031	AW	
238	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [A C E G H L M R S T V Z]
line, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-15

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAM-4 OWNER _____

Site Ident. No. [ ] 6–15

Water Level Data [R=234] 20 [T=A]

Method of W/L Selection from Recorder [240=] M (Mea daily value) N (Min daily value) A (12:00 noon Reading) P (Midnight Reading)

Meas. Point [R=320] [T= A (add) D (delete) M (modify)]

M. P. Begin Date [321 #] / /

M. P. End Date [322 =] / /

M. P. Height [323 =] 2.00 ABOVE / BELOW LSD

MP = TOC (1")

M P. Remark [324 =] M.P. H.O. 4803.24 (20–80)

Date M P. Punched / / By AW & GS

	DATE (MO DAY YR)	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	1/24/1990	237 = 217.81	238 =	239 =			219.81	1252		
235 #	02/03/1990	237 = 217.54	238 =	239 =			219.54	1501	AW & VL	
235 #	2/28/90	237 =	238 =	239 =			219.06	1721	AW	
235 #	3/28/90	237 =	238 =	239 =			218.39	1527	DK & AW	
235 #	4/25/90	237 =	238 =	239 =			218.05	1432	AW	
235 #	5/30/1990	237 =	238 =	239 =			218.64	1540	AW & CH	
235 #	6/18/1990	237 =	238 =	239 =			219.06	1636	AW & CH	
235 #	7/26/1990	237 =	238 =	239 =			220.36	1600	AW & RM	
235 #	08/23/1990	237 =	238 =	239 =			220.85	1542	AW	
235 #	09/19/1990	237 =	238 =	239 =		1.34 BLS	221.38	1640	AW	
235 #	10/24/1990	237 =	238 =	239 =	223.0	1.35	221.66	1349	AW & RS	
235 #	11/29/1990	237 =	238 =	239 =			221.43	1515	AW	
235 #	12/26/1990	237 =	238 =	239 =			221.00	1359	AW	
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						
235 #	/ /	237 =	238 =	239 =						

Site Status [238 =] D E F G H H O P R S T V W X Z

dry, recently flowed, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239 =] A C E G H L M R S T V Z

airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAM-5 OWNER _____

Site Ident. No. [ ] Water Level Data [R=234] [T=A] Method of W/L Selection from Recorder [240: M (Max daily value) M (Min daily value) A (12:00 noon Reading) P (Midnight Reading)]

Meas. Point [R=320] [T=A (add) D (delete) M (modify)] M. P. Begin Date [321: / /]

M. P. End Date [322: / /] M. P. Height [323: 1.89] ABOVE/BELOW LSD MP = TOC (-1.0)

M.P. Remark [324: M.P. No. 48.03.63]

Date M. P. Punched [/ /] By AW+GS

F-40

235	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	/ /		238	239			219.87			
235	01/24/1980	219.32	238	239			220.27	1301		
235	2/3/90	218.09	238	239			219.98	1458	AW+VL	
235	2/28/90		238	239			219.52	1724	AW	
235	3/28/90		238	239			218.84	1525	DK+AW	
235	4/25/90		238	239			219.51	1435	AW	
235	5/30/1980		238	239			219.14	1542	AW & CH	
235	6/18/1980		238	239			219.54	1638	AW & CH	
235	7/26/1980		238	239			220.81	1600	AW+RM	
235	08/23/1980		238	239			221.31	1547	AW	
235	09/19/1980		238	239			221.85	1644	AW	
235	10/24/1980		238	239	223.0	0.88	222.22	1352	AW & R.S	
235	11/29/1980		238	239			221.91	1519	AW	
235	12/20/1980		238	239			221.44	1403	AW	
235	/ /		238	239						
235	/ /		238	239						
235	/ /		238	239						
235	/ /		238	239						
235	/ /		238	239						

Site Status [230: D E F G H H O P R S T V W X Z]
dry, flowed recently; flowing; nearby, flowing recently; nearby, discontinued flowing; measurement; obstruction; pumping; recently pumped; nearby pumping; nearby, recently pumped; foreign substance; well destroyed; surface water affects; other

Method of Measurement [230: A C E G H L M R S T V Z]
inv. airline; calibrated; estimated; pressure gage; calibrated pressure gage; geophysical log; manom; reported; steel tape; electric tape; calibrated electric tape; other

FORM NO. 9-196-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 6 OWNER _____

Site Ident. No. [ ] Water Level Data [R=234] [T: A] Method of W/L Selection from Recorder [240: M N A P] (Max daily value, Min daily value, 12:00 Noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321] [ ]

M.P. End Date [322 :] M.P. Height [323 : 2.20] (ABOVE / BELOW LSD)

m.p. = +0.51' 10/24/90

M.P. Remark [324 : M.P. N.O. 4789.5]

[ ] Date M.P. Punched [ ] By AW

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	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	09/19/90	237	238	239			207.45	1605	AW	
235	10/24/90	237	238	239	209.0	0.9	208.10	1507	AW & RS	
235	/ /	237	238	239			~~208.~~	~~10-29-90~~	AW 11-29-90	
235	11/29/90	237	238	239			~~207.78~~	1321	AW	
235	11/29/90	237	238	239			208.13	1326	AW	
235	12/20/90	237	238	239			207.53	1242	AW	
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						

Site Status [230: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

OMB NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAM 7 OWNER _____

Site Ident. No. [ ] (8–19)

Water Level Data [R: 234] [T: A]

Method of W/L Selection from Recorder [240: M N A P] (Max daily value; Min daily value; 11:00 Morning Reading; Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify)

M. P. Begin Date [321:]

M. P. End Date [322:]

M. P. Height [323: 2.05] ABOVE / BELOW LSD

mp = + 0.51' 10/24/90

M. P. Remark [324: M.P. NO. TAS 4789.3] (20–80)

Date M. P. Punched [ ] By AW

F-42

235	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	09/19/1990	237	238	239	209.55		207.30	1601	AW	
235	10/24/1990	237	238	239	209.0	0.76	208.24	1516	AW RES	
235	11/29/1990	237	238	239			208.13	1326	AW AW71-28	80
235	11/21/1990	237	238	239			207.98	1321	AW	
235	12/26/1990	237	238	239			207.37	1238	AW	
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						

Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing recently flowing, nearby discontinued, measurement, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of measurement [239: C E G H L M R S T V Z]
calibrated, estimated, pressure gage, calibrated pressure gage, geophysical logs, macomber sounder, steel tape, electric tape, calibrated electric tape, other

! MP from L "=M" = LS

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TN 9 OWNER _____

Site Ident. No. [ ] Water Level Data R=234 T:A Method of W/L Selection from Recorder 240: M (Max daily value) N (Min daily value) A (12:00 Noon Reading) P (Midnight Reading)

Meas. Point R: 320 T: A (add) D (delete) M (modify) M.P. Begin Date 321

M.P. End Date 322 M.P. Height 323: .58 (ABOVE / BELOW LSD)

M.P. Remark 324: M.P. H.O. 4782.38

Date M.P. Punched [ ] By AW-GS

F-44

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 # 01/24/1990	237: 196.91	238:	239:			196.52	12:12		
235 # 2/3/90	237: 196.64	238:	239:			198.22	1520	AW & JC	
235 # 2/28/90	237:	238:	239:			197.78	1754	AW	
235 # 3/28/90	237:	238:	239:			197.10	1602	DK & AW	
235 # 4/25/90	237:	238:	239:			196.71	1527	AW	
235 # 5/30/1990	237:	238:	239:			197.28	1617	AW & CH	
235 # 6/18/1990	237:	238:	239:			197.83	1655	AW & CH	
235 # 7/26/1990	237:	238:	239:			199.03	1635	AW, CH	
235 # 08/23/1990	237:	238:	239:		199.58	198.58	1558	AW	
235 # 09/19/1990	237:	238:	239:			200.08	1651	AW	
235 # 10/24/1990	237:	238:	239:	202.0	1.63	200.37	1405	AW & RS	
235 # 11/29/1990	237:	238:	239:			200.10	1548	AW	
235 # 12/20/1990	237:	238:	239:			199.65	1414	AW	
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						

Site Status 238: D E F G H N O P R S T V W X Z

D: dry; E: flowed recently; F: flowing; G: nearby flowing; H: nearby recently discontinued flowing; N: measurement; O: obstruction; P: pumping; R: recently pumped; S: nearby pumping; T: nearby recently pumped; V: foreign substance; W: well destroyed; X: surface water effects; Z: other

Method of Measurement 239: C E G H L M R S T V Z

C: tape, calibrated airline; E: estimated; G: pressure gage; H: calibrated pressure gage; L: geophysical log; M: manometer; R: reported; S: steel; T: electric; V: calibrated

OMB NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 10 OWNER _____

Site Ident. No. _____ Water Level Data R:234 I:A Method of W/L Selection from Recorder 240: M (Max daily value) H (Min daily value) A (12:00 noon Reading) P (Midnight Reading)

Meas. Point R: 320 T: A (add) D (delete) M (modify) M.P. Begin Date 321 _____

M.P. End Date 322: _____ M.P. Height 323: 2.00 ABOVE / BELOW LSD

MP = Top of 4" casing

M.P. Remark 324: M.P. H.O. 4782.30

Date M.P. Punched _____ By AW & GS

F-45

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 # 01/24/1990	237: 198.48	238:	239:			198.48	0754		
235 # 01/31/90	237: 198.44	238:	239:			198.44	1105	AW & VC	
235 # 02/08/90	237:	238:	239:			197.82	1622	AW	
235 # 03/08/90	237:	238:	239:			197.14	1621	DEK & AW	
235 # 04/25/90	237:	238:	239:			196.76	1545	AW	
235 # 05/30/1990	237:	238:	239:			197.30	1642	AW & CH	
235 # 06/18/1990	237:	238:	239:			197.87	1714	AW & CH	
235 # 07/26/1990	237:	238:	239:			199.07	1700	AW + RM	
235 # 08/23/1990	237:	238:	239:			199.58	1622	AW	
235 # 09/11/1990	237:	238:	239:			200.10	1724	AW	
235 # 09/11/1990	237:	238:	239:	206.00	4.00	200.00	1731	AW Tool Tite	
235 # 10/24/1990	237:	238:	239:	206.00 2020	2.12	199.88	1442	AW & RS	
235 # 11/29/1990	237:	238:	239:			200.13	1619	AW	
235 # 12/20/1990	237:	238:	239:			198.69	1448	AW	
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						

Site Status 230: D E F G H N O P R S T V W X Z
dry, recently; flowed, recently; flowing, flowing; nearby, recently; measurement, discontinued; obstruction, flowing; pumping; recently pumped; nearby, pumping; nearby, recently pumped; foreign substance; well destroyed; surface water effects; other

Method of Measurement 239: A C E G H L M R S T V Z
airline, airline; calibrated; estimated; pressure gage; calibrated pressure gage; geophysical logs; manometer; reported; steel tape; electric tape; calibrated electric tape; other

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 10 A OWNER E646

Site Ident. No. [ ] Water Level Data [H:234] [T:A] Method of W/L Selection from Recorder [240: M H A P]
(M: Mean daily value; H: Hi daily value; A: 12-00 noon Reading; P: Digital)

Meas. Point [R:320] [T: A D M] (add, delete, modify) M. P. Begin Date [321: / /]

M. P. End Date [322: / /] M. P. Height [323:] ABOVE / BELOW LSD

M. P. Remark [324: M.P. H.O. 4783.18]

F-46

Date M. P. Punched [/ /] By _____

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	4/25/96	237	238	239			197.34		AW	
235	5/30/1986	237	238	239			197.82	16	AW & AU	
235	6/18/1986	237	238	239			198.46	1716	AW & AU	
235	7/16/1990	237	238	239			199.63	1705	AW & AU	
235	08/23/1990	237	238	239			200.18	1619	AW	
235	9/11/1990	237	238	239			200.69	1717	AW	
235	10/24/1990	237	238	239	101.0	1.03	200.97	1450	AW & AS	
235	11/29/1990	237	238	239			200.70	1616	AW	
235	12/20/1990	237	238	239			200.26	1452	AW	
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						

Site Status [238: D E F G H I O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [A C E G H L R S T V Z]
tether, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical log, measuring, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9- -E

U.S. DEP ITERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 11 OWNER _____

Site Ident. No. [ ] 8 19

Water Level Data [R: 234] [T: A]

Method of W/L Selection from Recorder [240: M H A P K] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify)

M. P. Begin Date [321:]

M. P. End Date [322:]

M. P. Height [323: 1.92] ABOVE / BELOW LSD

MP = top of 4" Casing

M.P. Remark [324: M.P. H.O. 4 5 4782.40]

Date M. P. Punched [ ] By AW & GS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	1/24/1990	196.65					198.57	0757		
235	2/3/90	196.54					198.50	1103	AW & VL	
235	2/28/90						197.91	1619	AW	
235	3/8/90						197.21	1620	DK + AW	
235	4/25/90						196.82	1540	AW	
235	5/30/1990						197.38	1638	AW & CH	
235	6/18/1990						197.95	1711	AW & GH	
235	7/26/1990						199.12	1700	AW + KM	
235	8/23/1990						199.66	1626	AW	
235	9/11/1990						200.17	1734	AW	
235	10/24/1990				205.1	4.64	200.46	1450	AW & RS	
235	11/29/1990						200.20	1622	AW	
235	12/21/1990						199.76	1444	AW	
235	/ /									
235	/ /									
235	/ /									
235	/ /									
235	/ /									
235	/ /									

Site Status [230: D E F G H H O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
sling, calibrated sling, estimated, pressure gage, calibrated pressure gage, geophysical, mano-meter, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 12 OWNER _____

Site Ident. No. [ ] 8–19

Water Level Data [R : 234] [T : A]

Method of W/L Selection from Recorder [240 : M H A P]
M = Meas daily value; H = Hi daily value; A = 12:00 average Reading; P = Midnight Reading

Meas. Point [R : 320] [T : A D M] (add, delete, modify)

M. P. Begin Date [321 : / /]

M. P. End Date [322 : / /]

M. P. Height [323 : 2.29] ABOVE / LSD / BELOW

mp = +0.61' 10/24/90

M. P. Remark [324 : M.P. NO. 12 4778.59] 20–80

Date M. P. Punched [/ /] By AW

235	DATE	237	WATER LEVEL (BELOW LSD)	238	STATUS	239	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	09/19/90	237		238		239				200.66	1738	AW	
235	10/24/1990	237		238		239		202.0	0.56	201.44	1438	AW & R.S	
235	11/29/1990	237		238		239				201.17	[illegible]	AW	
235	12/20/1990	237		238		239				200.73	1430	AW	
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
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235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							
235	/ /	237		238		239							

Site Status [230 : D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently capped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [2 C E G H L M R S T V Z]
clino, calibrated sounding, estimated, pressure gage, calibrated pressure gage, geophysical log, manom., reported, steel, electric, calibrated, other

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FORM NO. 9-1904

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 13 OWNER _____

Site Ident. No. _____ Water Level Data R=234 T:A Method of W/L Selection from Recorder 240: M H A P

Meas. Point R: 320 T: A D M (add, delete, modify) M. P. Begin Date 321

M. P. End Date 322: M. P. Height 323: 2.00 ABOVE / BELOW LSD

M. P. Remark 324: M.P. NO. 4782.63

Date M. P. Punched _____ By AW

F-49

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
10/24/1990				204.0	1.91	202.09	1454	AWIRS	
11/28/1990								GROUTED UP	
								+ ABANDONED	

Status 238: D E F G H N O P R S T V W X Z

dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of measurement 239: A C E G H L M R S T V Z

airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 13A OWNER _____

Site Ident. No. [ ] 8–19 Water Level Data 20: [H:234] [T:A] Method of W/L Selection from Recorder [240: M H A P]

Meas. Point [H:320] [T: A D M] M. P. Begin Date [321: 12/9/1990]

M. P. End Date [322:] M. P. Height [323: 2.97] ABOVE / BELOW LSD

2.75

M.P. Remark [324: M.P. H.O. 4783.26] 20–80

Date M. P. Punched [ ] By AW

F-50

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
232: 12/9/1990	237:	238:	239:			203.08	1430	AW	
232: 12/10/1990	237:	238:	239:			202.43	1315	AW	
232: / /	237:	238:	239:						
232: / /	237:	238:	239:						
232: / /	237:	238:	239:						
232: / /	237:	238:	239:						
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232: / /	237:	238:	239:						

Site Status [230: D E F G H H O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
tether, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 14 OWNER _____

Site Ident. No. [ ] Water Level Data [R=234] [T:A] Method of W/L Selection from Recorder [240: M H A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R=320] [T: A D M] (add, delete, modify) M. P. Begin Date [321:]

M. P. End Date [322:] M. P. Height [323: 1.75] (above / below LSD)

M.P. Remark [324: M.P. H.O. 4783.02] MP CHANGED 11-29-90 → 2.08

Date M. P. Punched [ ] By AW

235	DATE	236	WATER LEVEL (BELOW LSD)	237	STATUS	238	METHOD	239	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	10/24/1990	236		237		238		239	204.0	1.80	202.20	1459	AW 185	
235	11/29/1990	236		237		238		239			202.74	1423	AW	
235	12/20/1990	236		237		238		239			202.29	1314	AW	
235	/ /	236		237		238		239						
235	/ /	236		237		238		239						
235	/ /	236		237		238		239						
235	/ /	236		237		238		239						
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235	/ /	236		237		238		239						
235	/ /	236		237		238		239						

Site Status [230: D E F G H H O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
altitude, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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HM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 15 OWNER _____

Site Ident. No. [ ] Water Level Date [R=234] [T=A] Method of W/L Selection from Recorder [240=] M (Max daily value) N (Min daily value) A (12:00 noon Reading) P (Midnight Reading) K

Meas. Point [R=320] [T=A D M] (add, delete, modify) M.P. Begin Date [321] [/ /]

M.P. End Date [322=] [/ /] M.P. Height [323=] 2.75 ABOVE / BELOW LSD

MP CHANGED 11-24-90 -3.26

Remark [324=] M.P. H.O. TAS 4789.93

Date M.P. Punched [/ /] By AW

F-52

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
12/11/1990	237=	238=	239=			208.11	1550	AW	
10/2/1990	237=	238=	239=		-	208.08	- AW 11-14-90	Sampling Pump	
11/13/1990	237=	238=	239=			208.80	1309	AW	
12/21/1990	237=	238=	239=			208.22	1233	AW	
/ /	237=	238=	239=						
/ /	237=	238=	239=						
/ /	237=	238=	239=						
/ /	237=	238=	239=						
/ /	237=	238=	239=						
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Status [238=] D E F G H N O P R S T V W X Z

dry, flowed recently, flowing, nearby flowing recently, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of measurement [239=] A C E G H L M R S T V Z

calibrated orifice, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, tape, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN 16 OWNER _____

Site Ident. No. [ ] (6–19)

Water Level Data [R: 234] [T: A]

Method of W/L Selection from Recorder [240: M H A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify)

M. P. Begin Date [321: 7/ /]

M. P. End Date [322: / /]

M. P. Height [323: 2.31] ABOVE / BELOW LSD

MP = +0.51' 10/24/90

M.P. Remark [324: M.P. NO. TOC SURVEY H. MP MARKED 4789.38 PM 1-9-91]

Date M. P. Punched [/ /] By AW

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	09/11/91	237	238	239	210	24/10	207.49	1556	A(1)	
235	10/24/90	237	238	239	210.0	0.68	208.32	1520	AW & RS	
235	11/29/91	237	238	239			208.17	1314	AW	
235	12/20/90	237	238	239			207.61	1224	AW	
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed, recently; flowing; nearby, flowing; nearby, recently flowing; measurement, discontinued; obstruction; pumping; recently, pumped; nearby, pumping; nearby, recently pumped; foreign, substance; well, destroyed; surface, water effects; other

Method of Measurement [239: A C E G H L M R S T V Z]
airline, airline; calibrated; estimated; pressure, gage; calibrated, pressure gage; graphical; manometer; reported; steel, tape; electric, tape; calibrated, electric tape; other

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FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TC11-1 OWNER _____

Site Ident. No. [ ] 8–19 Water Level Data [R: 234] [T: A] Method of W/L Selection from Recorder [240: M (Max. daily value) N (Min. daily value) A (Average Reading) P (Midnight Reading)]

Meas. Point [R: 320] [T: A (add) D (delete) M (modify)] M.P. Begin Date [321:]

M.P. End Date [322:] M.P. Height [323: 2.3] ABOVE/BELOW LSD

MP = TOC − 1" PVC

M.P. Remark [324: M.P. N.O. 478.32] 20–80

[ ] Date M.P. Punched [ ] By AW & GS

F-54

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235: 2/12/1990	237: 195.21	238:	239:			197.54	1107		
235: 2/3/90	237: 195.09	238:	239:			197.92	1109	AW & JL	
235: 3/28/90	237:	238:	239:			196.16	1625	DK + AW	
235: 4/25/90	237:	238:	239:			195.76	1555	AW	
235: 5/30/1990	237:	238:	239:			196.55	1633	AW & CH	
235: 6/18/1990	237:	238:	239:			197.14	1722	AW & CH	
235: 7/26/1990	237:	238:	239:			198.34	1655	AW + KM	
235: 08/23/1990	237:	238:	239:			198.92	1614	AW	
235: 9/11/1990	237:	238:	239:			197.34	1513	AW	
235: 10/24/1990	237:	238:	239:	200.0	2.43	199.57	1126	AW + RS	
235: 11/29/1990	237:	238:	239:			199.26	1608	AW	
235: 11/ /	237:	238:	239:			~~200.70~~	~~1615~~	~~AW~~ AW 11-29-90	
235: 12/20/1990	237:	238:	239:			198.36	1134	AW	
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						

Site Status [238: D E F G H N O P R S T V W X Z]
D: dry, recently; E: flowed; F: flowing; G: nearby, flowing recently; H: nearby, discontinued; N: measurement; O: obstruction; P: pumping; R: recently pumped; S: nearby, pumping; T: nearby, recently pumped; V: foreign substance; W: well, destroyed; X: surface water effects; Z: other

Method of Measurement [2 A C E G H L M R S T V Z]
A: air, calibrated; C: calibrated; E: estimated; G: pressure gage; H: pressure gage; L: geophysical log; M: manometer; R: probed; S: steel tape; T: electric tape; V: calibrated electric tape; Z: other

Sheet (2)

FORM NO. 9-1

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TCH 25 OWNER _____

Site Ident. No. [ ] Water Level Data [R: 234] [T: A] Method of W/L Selection from Recorder [240: M H A P]

Meas. Point [R: 320] [T: A D M] M. P. Begin Date [321]

M. P. End Date [322] M. P. Height [323 : 1.21] ABOVE / BELOW LSD

M.P. Remark [324 : M.P. NO. 1 SURVEY 1-9-91 TOC MARKED 1-8-91 = 4791.43]

Date M. P. Punched [12/30/1990] By AW

F-55

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	12/20/1990	237 :	238 :	239 :			199.50	1251	AW	
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
236	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
236	/ /	237 :	238 :	239 :						
236	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
236	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						
235	/ /	237 :	238 :	239 :						

Site Status [238 : D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239 : A C E G H L M R S T V Z]
sounder, calibrated sounder, estimated, pressure gage, calibrated pressure gage, graphical, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TCH 2 D ~1090' OWNER _____

Site Ident. No. [ ] Water Level Data [R: 234] [T: A] Method of W/L Selection from Recorder [240: M H A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321: 11-24-90]

M.P. End Date [322:] M.P. Height [323: 2.10] ABOVE / BELOW CSD 1.58

M.P. Remark [324: M.P. NO. 1 SURVEY 1-4-91 TOC MARKED 1-4-91 = 4791.82]

Date M.P. Punched [ ] By AW

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	12/9/1990	237	238	239			212.72	1343	AW	
235	12/10/1990	237	238	239			211.74	1256	AW	
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						
235	/ /	237	238	239						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [: A C E G H L R S T V Z]
tape, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical log, reported, steel tape, electric tape, calibrated electric tape, other

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FORM NO. 9-1904-

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAN Dis parcel 1 OWNER _____

Site Ident. No. [ ] (8–19) Water Level Data [R: 234] [T: A] Method of W/L Selection from Recorder [240: M H A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M. P. Begin Date [321 #] [/ /]

M. P. End Date [322: / /] M. P. Height [323: 3'] (ABOVE / BELOW LSD)

M. P. Remark [324: M.P. N.O. 4789.15] (20–80)

[ ] Date M.P. Punched [/ /] By 659 AW

F-57

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 # 2/24/90	237: 205.2	238:	239:			205.5	0740		
235 # 2/3/90	237: 205.18	238:	239:			205.48	1057	AW & JL	
235 # 2/28/90	237:	238:	239:			204.85	1803	AW	
235 # 3/28/90	237:	238:	239:			204.17	1616	DK & AW	
235 # 4/25/90	237:	238:	239:			203.80	1559	AW	
235 # 5/30/90	237:	238:	239:			204.32	1648	AW & CH	
235 # 6/18/90	237:	238:	239:			204.86	1707	AW & CH	
235 # 7/26/90	237:	238:	239:			206.06	1710	DW & AM	
235 # 08/31/90	237:	238:	239:			206.58	1631	AW	
235 # 09/11/90	237:	238:	239:			207.12	1746	AW	
235 # 10/24/90	237:	238:	239:	210.0	2.5B	207.42	1535	AW & RS	
235 # 11/29/90	237:	238:	239:			207.18	1632	AW	
235 # 12/20/90	237:	238:	239:			206.74	1453	AW	
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						
235 # / /	237:	238:	239:						

Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of measurement [239: A C E G H L M R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1904

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. TAM DISP #3 OWNER _____

Site Ident. No. [ ] (8–19) Water Level Data [R=234] [T: A] Method of W/L Selection from Recorder [240: M H A P] (Mea daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321:]

M.P. End Date [322:] M.P. Height [323: 0.0] ABOVE/BELOW LSD MP = TOP OF BUNKER

M.P. Remark [324: M.P. N.O. 4779.95]

F-59 [ ] Date M.P. Punched [ ] By AW & GS

DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235: 1/24/1990	237: 115.02	238:	239:			196.02	1547		
235: 2/3/90	237: 194.76	238:	239:			195.76	1403	AW & JL	
235: 2/28/90	237:	238:	239:			195.33	1517	AW	
235: 3/28/90	237:	238:	239:			194.71	1125	AW + DK	
235: 4/25/90	237:	238:	239:			194.35	1338	AW	
235: 5/30/1990	237:	238:	239:			195.00	1139	AW & CH	
235: 6/18/1990	237:	238:	239:			195.47	1148	AW & CH	
235: 7/26/1990	237:	238:	239:			196.78	12:00	AW + RM	
235: 8/23/1990	237:	238:	239:			197.42	1055	AW	
235: 9/19/1990	237:	238:	239:			197.76	1129	AW	
235: / /	237:	238:	239:			~~197.00~~	AW 9-1-90		
235: 9/19/1990	237:	238:	239:	199.00	1.33	197.67	1135	AW	
235: 10/24/1990	237:	238:	239:			198.10	0957	AW & RS	
235: 11/29/1990	237:	238:	239:			197.87	1032	AW	
235: 12/20/1990	237:	238:	239:			197.31	10:04	AW	
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						
235: / /	237:	238:	239:						

Site Status [238: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
airline, calibrated airline, calibrated gage, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 9-1904-E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. 1586-7 OWNER _____

Site Ident. No. [ ] 6 19

Water Level Data R:234 [ ] 20 T: A [ ]

Method of W/L Selection from Recorder 240: M (Mea daily value) N (Min daily value) A (12:00 noon Reading) P (Midnight Reading) [ ]

Meas. Point R: 320 [ ] T: A (add) D (delete) M (modify) [ ]

M. P. Begin Date 321 [ ]

M. P. End Date 322: [ ]

M. P. Height 323: 4.2 [ ] ABOVE LSD / BELOW

MP MOVED TO TOC 2-3-90 1.42 ABOVE LSD

mP = -6" Ave Topo Elev
+ GL = +11" .92 from mP

M P Remark 324: M.P. No. 4790.36
20 7/26/90 New MP at 1" Nipple + .23 = 1.65 80

[ ] Date M P. Punched [ ] By AW+GS

	DATE	WATER LEVEL (BELOW LSD) 207.77	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	01/24/90	208.69	230	239			208.69	0930		
235 #	02/31/90	207.57	230	239			208.99	918	AW+VL	
235 #	02/28/90		230	239			208.63	1014	AW	
235 #	03/28/90		230	239			207.97	1318	DK+AW	
235 #	04/25/90		230	239			207.71	0952	AW	
235 #	05/30/1990		230	239			208.21	1231	AW+CH	
235 #	06/18/1990		230	239			208.71	1322	AW+CH	
235 #	07/26/90		230	239			210.22	13:50	AW+RM	
235 #	08/23/1990		230	239			210.83	13:40	AW	
235 #	/ /		230	239			211.22	14:15	AW	
235 #	10/24/1990		230	239			211.49	1044	AW & DS	
235 #	11/29/1990		230	239			211.21	1125	AW	
235 #	12/20/1990		230	239			210.71	1105	AW	
235 #	/ /		230	239						
235 #	/ /		230	239						
235 #	/ /		230	239						
235 #	/ /		230	239						
235 #	/ /		230	239						
235 #	/ /		230	239						

Site Status 238: D E F G H N O P R S T V W X Z
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement 1: A C E G H L R S T V Z
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical log, reported, steel tape, electric tape, calibrated electric tape, other

F-60

2.5" 21.75" 213.

MP = 21.75" or 1.81' from LS

FORM NO 9-15

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. USGS 24 OWNER _____

Site Ident. No. (8–19) Water Level Date 234: R [X] T: A [X] Method of W/L Selection from Recorder 240: M (Max daily value) N (Min daily value) A (12:00 noon Reading) P (Midnight Reading) [X]

Meas. Point 320: R [X] T: A (add) D (delete) M (modify) [X] M. P. Begin Date 321: [X]

M. P. End Date 322: [X] M. P. Height 323: 1.81 [X] ABOVE / BELOW LSD

MP = TOC

M. P. Remark 324: M.P. N.O. 479.6.9.6 [X]

Date M. P. Punched [X] By _____

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	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235	01/24/1990	237: 211.67	238:	239:			213.41	1557		
235	21/31/90	237: 211.36	238:	239:			213.17	1506	AW & JL	
235	212.81/90	237:	238:	239:			212.69	1731	AW	
235	3/8.81/90	237:	238:	239:			212.01	1541	DK+AW	
235	4/2.51/90	237:	238:	239:			211.62	1621	AW	
235	5/30/1990	237:	238:	239:			212.21	1623	AW&CH	
235	6/18/1990	237:	238:	239:			212.73	1700	AW&CH	
235	7/2.7/90	237:	238:	239:			213.96	1143	AW	
235	08/23/1990	237:	238:	239:			214.46	1607	AW	
235	09/19/1990	237:	238:	239:			214.99	1703	AW	
235	10/24/1990	237:	238:	239:	217	1.71	215.29	1410	AW&CS	
235	11/27/1990	237:	238:	239:			215.04	1559	AW	
235	12/20/1990	237:	238:	239:			214.61	1417	AW	
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						
235	/ /	237:	238:	239:						

Site Status 238: D E F G H N O P R S T V W X Z

dry, recently flowed, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement 239: A C E G H L M R S T V Z

airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

FORM NO. 4-E

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

mP 4 D = 17.3
= 28.25
= 2.35

COUNTY _____ LOCAL WELL NO. USGS 25 OWNER _____

Site Ident. No. [ ] (8–19)

Water Level Data [R: 234] [T: A]

Method of W/L Selection from Recorder [240: M H A P] (Max daily value; Min daily value; 12-00 Midnight Reading; Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify)

M. P. Begin Date [321 #]

M. P. End Date [322 :]

M. P. Height [323 : 2.35] (ABOVE / BELOW LSD)

M.P. Remark [324 : M.P. H.O. 485.23] (20–80)

Date M. P. Punched [ ] By GS + AW

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	11/24/1990	264.32	238 :	239 :			266.67	1455		
235 #	2/3/90	264.11	238 :	239 :			266.96	1308	AW + VL	
235 #	2/26/90		238 :	239 :			266.16	1344	AW	
235 #	3/28/90		238 :	239 :			265.41	1019	DK + AW	
235 #	4/25/90		238 :	239 :			265.09	1227	AW	
235 #	5/30/1990		238 :	239 :			265.84	1031	AW & CH	
235 #	6/18/1990		238 :	239 :			266.34	1243	AW & CH	
235 #	7/26/90		238 :	239 :			267.62	11:55	AW & RM	
235 #	08/23/1990		238 :	239 :			268.28	09:50	AW	
235 #	09/19/1990		238 :	239 :			268.60	10:24	AW	
235 #	10/24/1990		238 :	239 :			268.85	0917	AW & RS	
235 #	11/29/1990		238 :	239 :			268.56	0930	AW	
235 #	12/20/1990		238 :	239 :			268.03	0912	AW	
235 #	/ /		238 :	239 :						
235 #	/ /		238 :	239 :						
235 #	/ /		238 :	239 :						
235 #	/ /		238 :	239 :						
235 #	/ /		238 :	239 :						
235 #	/ /		238 :	239 :						

Site Status [238 : D E F G H H O P R S T V W X Z]
dry, recently flowed, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239 : A C E G H L M R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical, m[illegible] tape, reported, steel tape, electric tape, calibrated electric tape, other

(0.122) 8-23-90 | 0.23 | Casing corr | 20 3/4

FORM NO. 9– E

U.S. DEPT. OF INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

GROUND WATER SITE INVENTORY
WATER-LEVEL DATA

COUNTY _____ LOCAL WELL NO. 1565 ~~24~~ 26 OWNER _____

Site Ident. No. [ ] (5–19) Water Level Data [R=234] [T: A] Method of W/L Selection from Recorder [240: M H A P] (Max daily value, Min daily value, 12:00 noon Reading, Midnight Reading)

Meas. Point [R: 320] [T: A D M] (add, delete, modify) M.P. Begin Date [321: / /]

M.P. End Date [322: / /] M.P. Height [323: 1.73] ABOVE / BELOW LSD

MP = Top of casing

M.P. Remark [324: M.P. N.O. 4.79/1.66 NEW M.P. 8-23-90 — 1.96 ABOVE LSD] (20–80)

Date M.P. Punched [/ /] By AW & GS

	DATE	WATER LEVEL (BELOW LSD)	STATUS	METHOD	HOLD	CUT	DEPTH BELOW MP	MEAS BY TIME	REMARKS	DATE PUNCHED
235 #	01/24/1990	204.79	230 •	239 •			206.52	1615		
235 #	02/03/1990	204.59	230 •	239 •			206.32	0823	AW & VL	
235 #	2/28/90		230 •	239 •			205.90	1609	AW	
235 #	3/28/90		230 •	239 •			205.88	8137	AW & DR	
235 #	4/25/90		230 •	239 •			205.02	8:21	AW	
235 #	5/30/1990		230 •	239 •			205.75	8:40	AW & CH	
235 #	6/18/1990		230 •	239 •			206.26	844	AW & CH	
235 #	6/18/1990		230 •	239 •	211	4.77	206.23	850	AW & CH	
235 #	7/26/1990		230 •	239 •			207.56		AW	
235 #	7/26/1990		230 •	239 •	208	.5	207.5	8:30	AW & RM	
235 #	8/23/1990		230 •	239 •			208.41	8:42	AW & RM AW 8-23-90	
235 #	08/23/1990		230 •	239 •	209	.67	208.33	9:46	AW - Steel Tape	
235 #	9/11/1990		230 •	239 •			208.63	8:32	AW	
235 #	09/19/1990		230 •	239 •	212	3.48	208.52	8:40	AW - Steel Tape	
235 #	10/24/1990		230 •	239 •	212 AW		208.87	7:51	AW & RS	
235 #	10/24/1990		230 •	239 •	210	2.11	207.99	7:54	AW & RS Steel tape	
235 #	11/29/1990		230 •	239 •	208 AW		208.55	08:26	AW	
235 #	11/29/1990		230 •	239 •	210	1.52	208.48	08:32	AW	
235 #	12/20/1990		230 •	239 •			208.01	07:56	AW	

Site Status [230: D E F G H N O P R S T V W X Z]
dry, flowed recently, flowing, nearby flowing, nearby recently flowing, measurement discontinued, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other

Method of Measurement [239: A C E G H L M R S T V Z]
airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other

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APPENDIX G

VALIDATED MARCH 1989
GROUNDWATER ANALYTICAL RESULTS

Analytical Methods

Volatile organics	United States Environmental Protection Agency (EPA) Contract Laboratory Program (CLP)
Semivolatile organics	EPA CLP
Inorganics (metals, cyanide, and sulfide)	EPA CLP (SOW 7/88)
Pesticides/PCBs	EPA CLP
Herbicides	SW-846 8150
Acetonitrile, acrolein, and acrylonitrile	SW-846 8030

DATA QUALIFIER DEFINITIONS

Organic Analysis Data Flags

A - Indicates that a tentatively identified compound is a suspected aldol-condensation product.

B - Used when the analyte is found in the associated blank as well as in the sample.

C - Applies to pesticide results where the identification has been confirmed by GC/MS.

D - Identifies all compounds identified in an analysis at a secondary dilution factor.

E - Identifies compounds which have concentrations that exceed the calibration range of the GC/MS instrument for that specific analysis

J - Indicates as estimated value.

U - Indicates compound was analyzed for but not detected.

Organic Validation Data Qualifiers

J - The analyte was positively identified in the sample, but the associated numerical value may not be an accurate representation of the amount actually present in the environmental sample. The data should be seriously considered for decision making and are usable for many purposes.

N - Presumptive evidence of the presence of the material.

NJ - Presumptive evidence of the presence of the material at an estimated quantity.

R - The data are unusable (may or may not be present). Resampling and reanalysis is necessary for verification.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFIER DEFINITIONS

Inorganic Analysis Data Flags

B - Value is less than the CRDL, but greater than the IDL.

E - Value is estimated because of the presence of interference.

N - Spiked sample recovery not within control limits.

NR - Analyte was not required to be analyzed.

S - Value was determined by the method of standard additions (MSA).

U - Analyte was analyzed for but not detected.

W - Post digestion spike for Furnace AA analysis is out of control limits (85% to 115%), while sample absorbance is less than 50% of spike absorbance.

***** - Duplicate analysis not within control limits.

Methods

A - Flame AA.

CV - Manual Cold Vapor AA.

F - Furnace AA.

NR - Not run, analyte not required to be analyzed.

P - Inductively Couple Plasma-Atomic Emission Spectrometry.

Inorganic Validation Data Qualifiers

J - The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample.

R - The data are unusable.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may not accurately reflect the instrument detection limit in the sample matrix.

Reference: Environmental Restoration Department, Sample Management Office Standard Operating Procedures 12.1.4 and 12.1.5 (EG&G, Idaho).

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX 1X ORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	TAND1	TAND2	TSF05	TSF05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TSF0589001	TSF0589001DL
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS					
Depth (ft)	240-250	205-215	210-250	230-240	230-240
TARGET COMPOUNDS					
Chloromethane	---	---	---	---	2000 UD
Bromomethane	---	---	---	---	2000 UD
Vinyl Chloride	---	---	---	25	2000 UD
Chloroethane	---	---	---	---	2000 UD
Methylene Chloride	---	---	---	---	610 BJD
Acetone	---	6 J	---	---	670 BJD
Carbon Disulfide	18	---	3 J	---	1000 UD
1,1-Dichloroethene	---	---	---	23	1000 UD
1,1-Dichloroethane	---	---	---	---	1000 UD
1,2-Dichloroethene_(total)	---	---	---	6800 E	7800 D
Chloroform	---	---	---	---	1000 UD
1,2-Dichloroethane	---	---	---	---	1000 UD
2-Butanone	---	---	---	---	2000 UD
1,1,1-Trichloroethane	---	---	---	---	1000 UD
Carbon Tetrachloride	---	---	---	---	1000 UD
Vinyl Acetate	---	---	---	---	2000 UD
Bromodichloromethane	---	---	---	---	1000 UD
1,2-Dichloropropane	---	---	---	---	1000 UD
cis-1,3-Dichloropropene	---	---	---	---	1000 UD
Trichloroethene	---	39	170	5400 E	28000 BD
Dibromochloromethane	---	---	---	---	1000 UD
1,1,2-Trichloroethane	---	---	---	---	1000 UD
Benzene	2 J	5 UJ	---	4 J	1000 UD
Trans-1,3-Dichloropropene	---	---	---	---	1000 UD
Bromoform	---	---	---	---	1000 UD
4-Methyl-2-Pentanone	---	---	---	---	2000 UD
2-Hexanone	---	---	---	---	2000 UD
Tetrachloroethene	---	6	10	---	1000 UD
1,1,2,2-Tetrachloroethane	---	---	---	---	1000 UD
Toluene	---	5 UJ	---	---	1000 UD

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	TAND1	TAND2	TSF05	TSF05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TSF0589001	TSF0589001DL
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
Chlorobenzene	---	---	---	---	1000 UD
Ethylbenzene	---	5 UJ	---	---	1000 UD
Styrene	---	---	---	---	1000 UD
Xylene (total)	---	5 UJ	---	---	1000 UD
Trichlorofluoromethane	---	---	---	---	1000 UD
Iodomethane	---	---	---	---	1000 UD
Allyl chloride	---	---	---	---	1000 UD
Propionitrile	---	---	---	---	1000 UD
2-Chloro-1,3-butadiene	---	---	---	---	1000 UD
Dilution Factor	1.000	1.000	1.000	1.000	200.000
Total (Allowed) Hold Time	10(14)d	14(14)d	10(14)d	10(14)d	12(14)d

TABLE _.-._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TSF05	TSF05	TSF05	TSF05	USG24
TYPE OF LOCATION	INJECTION WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL	MONITORING WELL
SAMPLE NUMBER	TSF0589002	TSF0589002DL	TSF0589002RE	TSF0589003DL	USG2489001
MEDIA	WATER	WATER	WATER	SOIL	WATER
UNITS	ug/L	ug/L	ug/L	ug/kg	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS					
Depth (ft)	238-248	238-248	238-248	275-300	211-260
TARGET COMPOUNDS					
Chloromethane	10 UJ	1000 UD	10 UJ	2600000 UDJ	---
Bromomethane	10 UJ	1000 UD	10 UJ	2600000 UDJ	---
Vinyl Chloride	16 J	1000 UD	25 J	2600000 UDJ	---
Chloroethane	5 UJ	1000 UD	10 UJ	2600000 UDJ	---
Methylene Chloride	5 UJ	500 UD	5 UJ	290000 JD	---
Acetone	10 UJ	550 BJD	10 UJ	2600000 UDJ	---
Carbon Disulfide	5 UJ	500 UD	5 UJ	1300000 UDJ	---
1,1-Dichloroethene	16 J	500 UD	23 J	1300000 UDJ	---
1,1-Dichloroethane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
1,2-Dichloroethene_(total)	5300 EJ	7400 D	5000 EJ	1300000 UDJ	4 J
Chloroform	5 UJ	500 UD	5 UJ	1300000 UDJ	---
1,2-Dichloroethane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
2-Butanone	10 UJ	1000 UD	10 UJ	1800000 JD	---
1,1,1-Trichloroethane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Carbon Tetrachloride	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Vinyl Acetate	10 UJ	1000 UD	10 UJ	2600000 UDJ	---
Bromodichloromethane	5 UJ	500 UD	5 UJ	1600000 UDJ	---
1,2-Dichloropropane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
cis-1,3-Dichloropropene	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Trichloroethene	3700 EJ	16000 BD	4600 EJ	20000000 DJ	450 E
Dibromochloromethane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
1,1,2-Trichloroethane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Benzene	3 J	500 UD	4 J	1300000 UDJ	---
Trans-1,3-Dichloropropene	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Bromoform	5 UJ	500 UD	5 UJ	1300000 UDJ	---
4-Methyl-2-Pentanone	10 UJ	1000 UD	10 UJ	2600000 UDJ	---
2-Hexanone	10 UJ	1000 UD	10 UJ	2600000 UDJ	---
Tetrachloroethene	37 J	500 UD	53 J	1300000 UDJ	19
1,1,2,2-Tetrachloroethane	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Toluene	5 UJ	500 UD	5 UJ	1300000 UDJ	---

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TSF05	TSF05	TSF05	TSF05	USG24
TYPE OF LOCATION	INJECTION WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL	MONITORING WELL
SAMPLE NUMBER	TSF0589002	TSF0589002DL	TSF0589002RE	TSF0589003DL	USG2489001
MEDIA	WATER	WATER	WATER	SOIL	WATER
UNITS	ug/L	ug/L	ug/L	ug/kg	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
Chlorobenzene	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Ethylbenzene	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Styrene	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Xylene (total)	5 UJ	500 UD	5 UJ	1300000 UDJ	---
Trichlorofluoromethane	5 UJ	500 UD	---	1300000 UDJ	---
Iodomethane	5 UJ	500 UD	---	1300000 UDJ	---
Allyl chloride	5 UJ	500 UD	---	1300000 UDJ	---
Propionitrile	5 UJ	500 UD	---	1300000 UDJ	---
2-Chloro-1,3-butadiene	5 UJ	500 UD	---	1300000 UDJ	---
Dilution Factor	1.000	100.000	1.000	500.000	1.000
Total (Allowed) Hold Time	10(14)d	12(14)d	12(14)d	11(14)d	11(14)d

TABLE _.-._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC DATA (Continued)

AREA	TAN
LOCATION	USG24
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	USG2489001DL
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
FIELD MEASUREMENTS	
Depth (ft)	211-260
TARGET COMPOUNDS	
Chloromethane	50 UD
Bromomethane	50 UD
Vinyl Chloride	50 UD
Chloroethane	50 UD
Methylene Chloride	13 BJD
Acetone	18 JD
Carbon Disulfide	25 UD
1,1-Dichloroethene	25 UD
1,1-Dichloroethane	25 UD
1,2-Dichloroethene_(total)	22 JD
Chloroform	25 UD
1,2-Dichloroethane	25 UD
2-Butanone	50 UD
1,1,1-Trichloroethane	25 UD
Carbon Tetrachloride	25 UD
Vinyl Acetate	50 UD
Bromodichloromethane	25 UD
1,2-Dichloropropane	25 UD
cis-1,3-Dichloropropene	25 UD
Trichloroethene	210 D
Dibromochloromethane	25 UD
1,1,2-Trichloroethane	25 UD
Benzene	25 UD
Trans-1,3-Dichloropropene	25 UD
Bromoform	25 UD
4-Methyl-2-Pentanone	50 UD
2-Hexanone	50 UD
Tetrachloroethene	25 UD
1,1,2,2-Tetrachloroethane	25 UD
Toluene	25 UD

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC DATA (Continued)

AREA	TAN
LOCATION	USG24
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	USG2489001DL
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
Chlorobenzene	25 UD
Ethylbenzene	25 UD
Styrene	25 UD
Xylene (total)	25 UD
Trichlorofluoromethane	25 UD
Iodomethane	25 UD
Allyl chloride	25 UD
Propionitrile	25 UD
2-Chloro-1,3-butadiene	25 UD
Dilution Factor	5.000
Total (Allowed) Hold Time	17(14)d*

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - SEMIVOLATILE APPENDIX IX ORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	QC	TAND1	TAND2	TAND2
TYPE OF LOCATION	MONITORING WELL	SPIKE SAMPLE	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TAND289001RE	TSF0589001
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS					
Depth (ft)	240-250	205-215	210-250	210-250	230-240
TARGET COMPOUNDS					
Di-n-butylphthalate	1 J	1 J	---	---	---
bis(2-Ethylhexyl)phthalate	---	---	---	2 J	---
Di-n-octylphthalate	1 J	---	10 UJ	---	10 UJ
Benzo(b)fluoranthene	---	---	10 UJ	---	10 UJ
Benzo(k)fluoranthene	---	---	10 UJ	---	10 UJ
Benzo(a)pyrene	---	---	10 UJ	---	10 UJ
Indeno(1,2,3-cd)pyrene	---	---	10 UJ	---	10 UJ
Dibenz(a,h)anthracene	---	---	10 UJ	---	10 UJ
Benzo(g,h,i)perylene	---	---	10 UJ	---	10 UJ
Dilution Factor	1.000	1.000	1.000	1.000	1.000
Extraction (Allowed) Hold Time	4(7)d	3(7)d	1(7)d	1(7)d	0(7)d
Analytical (Allowed) Hold Time	9(40)d	9(40)d	6(40)d	8(40)d	6(40)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - SEMIVOLATILE APPENDIX IX ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TSF05	TSF05	TSF05	TSF05	TSF05
TYPE OF LOCATION	INJECTION WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	TSF0589001RE	TSF0589002	TSF0589003	TSF0589003RE	USG2489001
MEDIA	WATER	WATER	SOIL	SOIL	WATER
UNITS	ug/L	ug/L	ug/kg	ug/kg	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS					
Depth (ft)	230-240	238-248	275-300	275-300	211-260
TARGET COMPOUNDS					
Di-n-butylphthalate	---	---	---	---	1 J
bis(2-Ethylhexyl)phthalate	3 J	---	---	---	---
Di-n-octylphthalate	---	---	---	---	10 UJ
Benzo(b)fluoranthene	---	---	---	---	10 UJ
Benzo(k)fluoranthene	---	---	---	---	10 UJ
Benzo(a)pyrene	---	---	---	---	10 UJ
Indeno(1,2,3-cd)pyrene	---	---	---	---	10 UJ
Dibenz(a,h)anthracene	---	---	---	---	10 UJ
Benzo(g,h,i)perylene	---	---	---	---	10 UJ
Dilution Factor	1.000	1.000	1.000	1.000	1.000
Extraction (Allowed) Hold Time	0(7)d	0(7)d	5(14)d	5(14)d	1(7)d
Analytical (Allowed) Hold Time	8(40)d	6(40)d	2(40)d	22(40)d	12(40)d

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - SEMIVOLATILE APPENDIX IX ORGANIC DATA *(Continued)*

AREA	TAN
LOCATION	USG24
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	USG2489001RE
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
FIELD MEASUREMENTS	
Depth (ft)	
TARGET COMPOUNDS	
Di-n-butylphthalate	1 J
bis(2-Ethylhexyl)phthalate	2 J
Di-n-octylphthalate	---
Benzo(b)fluoranthene	---
Benzo(k)fluoranthene	---
Benzo(a)pyrene	---
Indeno(1,2,3-cd)pyrene	---
Dibenz(a,h)anthracene	---
Benzo(g,h,i)perylene	---
Dilution factor	1.000
Extraction (Allowed) Hold Time	1(7)d
Analytical (Allowed) Hold Time	14(40)d

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	TAND1	TAND2	TSF05	TSF05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TSF0589001	TSF0589002
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS					
Depth (ft)	240-250	205-215	210-250	230-240	238-248
ANALYTES					
Aluminum	NR	NR	NR	NR	NR
Antimony	30.0 UNJ	30.0 UNJ	30.0 UNWJ	30.0 UNWJ	30.0 UNWJ
Arsenic	---	---	---	---	---
Barium	125 BEJ	76.0 BEJ	286 EJ	147 BEJ	148 BEJ
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	NR	NR	NR	NR	NR
Chromium	---	---	---	---	---
Cobalt	---	---	---	---	---
Copper	60.0 *J	42.0 *J	73.0 *J	90.0 *J	87.0 *J
Cyanide	---	---	---	---	---
Iron	NR	NR	NR	NR	NR
Lead	8.3	6.5	10.2	14.0 S	6.9 S
Magnesium	NR	NR	NR	NR	NR
Manganese	NR	NR	NR	NR	NR
Mercury	0.20 U*J	0.20 U*J	0.20 U*J	0.33 *J	0.25 *J
Nickel	---	---	26.0 B	---	21.0 B
Potassium	NR	NR	NR	NR	NR
Selenium	10.0	2.0 UJ	---	2.0 UW	2.0 UW
Silver	---	2.0 UW	2.0 UW	2.0 UW	2.0 UW
Sodium	NR	NR	NR	NR	NR
Sulfide	---	---	---	---	---
Thallium	3.3 BJ	3.0 BJ	2.2 BJ	1.6 BJ	1.3 BJ
Tin	---	---	---	---	---
Vanadium	---	---	15.0 B	---	10.0 B
Zinc	175 *J	36.0 *J	72.0 *J	267 *J	342 *J
Total (Allowed) Hold Time[a]	12(180)d	11(180)d	7(180)d	6(180)d	6(180)d
Total (Allowed) Hold Time[b]	7(26)d	6(26)d	2(26)d	10(26)d	10(26)d
Total (Allowed) Hold Time[c]	12(180)d	11(180)d	7(180)d	6(180)d	6(180)d
Total (Allowed) Hold Time[d]	8(12)d	7(12)d	3(12)d	2(12)d	2(12)d

a. ICP
b. CVAAS
c. GFAAS
d. Cyanide

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN
LOCATION	TSF05	USG24
TYPE OF LOCATION	INJECTION WELL	MONITORING WELL
SAMPLE NUMBER	TSF0589003	USG2489001
MEDIA	SOIL	WATER
UNITS	mg/kg	ug/L
SDG NUMBER	USG2489001	USG2489001
FIELD MEASUREMENTS		
Depth (ft)	275-300	211-260
ANALYTES		
Aluminum	NR	NR
Antimony	21.1 NUJ	30.0 UNWJ
Arsenic	3.7	---
Barium	326 EJ	201 EJ
Beryllium	0.70 B	---
Cadmium	11.3	---
Calcium	NR	NR
Chromium	90.7	---
Cobalt	---	---
Copper	1320 *J	56.0 *J
Cyanide	1.0 UNJ	---
Iron	NR	NR
Lead	159	8.9
Magnesium	NR	NR
Manganese	NR	NR
Mercury	42.5 N*J	0.20 U*J
Nickel	51.3	---
Potassium	NR	NR
Selenium	1.3	2.0 UW
Silver	14.9 *J	2.0 UW
Sodium		
Sulfide	41500	---
Thallium	0.65 J	3.3 BJ
Tin	---	---
Vanadium	17.6	---
Zinc	2600 *J	64.0 *J
Total (Allowed) Hold Time[a]	22(180)d	13(180)d
Total (Allowed) Hold Time[b]	10(26)d	8(26)d
Total (Allowed) Hold Time[c]	22(180)d	13(180)d
Total (Allowed) Hold Time[d]	2(12)d	9(12)d

a. ICP
b. CVAAS
c. GFAAS
d. Cyanide

TABLE _.-.- 1989 TAN HYDROGEOLOGIC INVESTIGATION - ACETRONITRILE, ACROLEIN, ACRYLONITRILE DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	TAND1	TAND2	TSF05	TSF05	TSF05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TSF0589001	TSF0589002	TSF0589003
MEDIA	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS						
Depth (ft)	240-250	205-215	210-250	230-240	238-248	275-300
TARGET COMPOUNDS						
None Detected.						
Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0
Total (Allowed) Hold Time	6(14)d	6(14)d	2(14)d	2(14)d	2(14)d	2(14)d

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - ACETRONITRILE, ACROLEIN, ACRYLONITRILE DATA (Continued)

AREA	TAN	TAN
LOCATION	USG24	USG24
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TSF0589003DL	USG2489001
MEDIA	SOIL	WATER
UNITS	ug/kg	ug/L
SDG NUMBER	USG2489001	USG2489001
FIELD MEASUREMENTS		
Depth (ft)	275-300	211-260
TARGET COMPOUNDS		
None Detected.		
Dilution Factor	1000.0	1.0
Total (Allowed) Hold Time	13(14)d	7(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - HERBICIDE DATE

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	TAND1	TAND2	TSF05	TSF05	TSF05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TSF0589001	TSF0589002	TSF0589003DL
MEDIA	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS						
Depth (ft)	240-250	205-215	210-250	230-240	238-248	275-300
TARGET COMPOUNDS						
None Detected.						
Dilution Factor	1.0	1.0	1.0	1.0	1.0	10.0
Extraction (Allowed) Hold Time	0(7)d	3(7)d	1(7)d	0(7)d	0(7)d	5(14)d
Analytical (Allowed) Hold Time	6(40)d	3(40)d	12(40)d	12(40)d	12(40)d	7(40)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - HERBICIDE (Continued)

AREA	TAN
LOCATION	USG24
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	USG2489001
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
FIELD MEASUREMENTS	
Depth (ft)	211-260
TARGET COMPOUNDS	
None Detected.	
Dilution Factor	1.0
Extraction (Allowed) Hold Time	1(7)d
Analytical (Allowed) Hold Time	5(40)d

TABLE _.-._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - PESTICIDE/PCB DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	IET06	TAND1	TAND2	TSF05	TSF05	TSF05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	INJECTION WELL	INJECTION WELL	INJECTION WELL
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001	TSF0589001	TSF0589002	TSF0589003DL
MEDIA	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
FIELD MEASUREMENTS						
Depth (ft)	240-250	205-215	210-250	230-240	238-248	275-300
TARGET COMPOUNDS						
delta-BHC	---	---	0.05 UJ	0.05 UJ	0.05 UJ	950 UDJ
Dilution Factor	1.0	1.0	1.0	1.0	1.0	5.0
Extraction (Allowed) Hold Time	0(7)d	3(7)d	1(7)d	0(7)d	0(7)d	5(14)d
Analytical (Allowed) Hold Time	6(40)d	3(40)d	12(40)d	12(40)d	12(40)d	7(40)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - PESTICIDE/PCB DATA (Continued)

AREA	TAN
LOCATION	USG24
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	USG2489001
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
FIELD MEASUREMENTS	
Depth (ft)	211-260
TARGET COMPOUNDS	
delta-BHC	---
Dilution Factor	1.0
Extraction (Allowed) Hold Time	1(7)d
Analytical (Allowed) Hold Time	5(40)d

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC FIELD BLANK DATA

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	QC	QC	QC	QC	QC
TYPE OF LOCATION	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	IET0689001SB	TAND189001SB	TAND289001SB	TSF0589001SB	TSF0589002SB
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
TARGET COMPOUNDS					
Chloromethane	10 UJ	---	---	---	---
Bromomethane	10 UJ	---	---	---	---
Vinyl Chloride	10 UJ	---	---	---	---
Chloroethane	10 UJ	---	---	---	---
Methylene Chloride	2 J	---	---	---	---
Acetone	10 UJ	5 J	5 J	4 J	5 J
Carbon Disulfide	5 UJ	---	---	---	---
1,1-Dichloroethene	5 UJ	---	---	---	---
1,1-Dichloroethane	5 UJ	---	---	---	---
1,2-Dichloroethene_(total)	5 UJ	---	---	---	---
Chloroform	5 UJ	3 J	---	2 J	2 J
1,2-Dichloroethane	5 UJ	---	---	---	---
2-Butanone	10 UJ	---	---	---	---
1,1,1-Trichloroethane	5 UJ	---	---	---	---
Carbon Tetrachloride	5 UJ	---	---	---	---
Vinyl Acetate	10 UJ	---	---	---	---
Bromodichloromethane	5 UJ	---	---	---	---
1,2-Dichloropropane	5 UJ	---	---	---	---
cis-1,3-Dichloropropene	5 UJ	---	---	---	---
Trichloroethene	5 UJ	---	---	---	---
Dibromochloromethane	1 J	---	2 J	---	---
1,1,2-Trichloroethane	5 UJ	---	---	---	---
Benzene	5 UJ	---	---	---	---
Trans-1,3-Dichloropropene	5 UJ	---	---	---	---
Bromoform	3 J	---	3 J	4 J	4 J
4-Methyl-2-Pentanone	10 UJ	---	---	---	---
2-Hexanone	10 UJ	---	---	---	---
Tetrachloroethene	5 UJ	---	---	---	---
1,1,2,2-Tetrachloroethane	5 UJ	---	---	---	---
Toluene	5 UJ	---	---	---	---

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC FIELD BLANK DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	QC	QC	QC	QC	QC
TYPE OF LOCATION	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	IET0689001SB	TAND189001SB	TAND289001SB	TSF0589001SB	TSF0589002SB
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
Chlorobenzene	5 UJ	---	---	---	---
Ethylbenzene	5 UJ	---	---	---	---
Styrene	5 UJ	---	---	---	---
Xylene (total)	5 UJ	---	---	---	---
Trichlorofluoromethane	5 UJ	---	---	---	---
Iodomethane	5 UJ	---	---	---	---
Allyl chloride	5 UJ	---	---	---	---
Propionitrile	5 UJ	---	---	---	---
2-Chloro-1,3-butadiene	5 UJ	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	10(14)d	14(14)d	10(14)d	10(14)d	10(14)d

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC FIELD BLANK DATA (Continued)

AREA	TAN
LOCATION	QC
TYPE OF LOCATION	FIELD BLANK
SAMPLE NUMBER	USG2489001SB
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
TARGET COMPOUNDS	
Chloromethane	---
Bromomethane	---
Vinyl Chloride	---
Chloroethane	---
Methylene Chloride	2 J
Acetone	---
Carbon Disulfide	---
1,1-Dichloroethene	---
1,1-Dichloroethane	---
1,2-Dichloroethene (total)	---
Chloroform	2 J
1,2-Dichloroethane	---
2-Butanone	---
1,1,1-Trichloroethane	---
Carbon Tetrachloride	---
Vinyl Acetate	---
Bromodichloromethane	---
1,2-Dichloropropane	---
cis-1,3-Dichloropropene	---
Trichloroethene	---
Dibromochloromethane	2 J
1,1,2-Trichloroethane	---
Benzene	---
Trans-1,3-Dichloropropene	---
Bromoform	4 J
4-Methyl-2-Pentanone	---
2-Hexanone	---
Tetrachloroethene	---
1,1,2,2-Tetrachloroethane	---
Toluene	---

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC FIELD BLANK DATA (Continued)

AREA	TAN
LOCATION	QC
TYPE OF LOCATION	FIELD BLANK
SAMPLE NUMBER	USG2489001SB
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
Chlorobenzene	---
Ethylbenzene	---
Styrene	---
Xylene (total)	---
Trichlorofluoromethane	---
Iodomethane	---
Allyl chloride	---
Propionitrile	---
2-Chloro-1,3-butadiene	---
Dilution Factor	1.000
Total (Allowed) Hold Time	11(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC RINSATE DATA

AREA	TAN
LOCATION	QC
TYPE OF LOCATION	RINSATE
SAMPLE NUMBER	TAND189001UB
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	USG2489001
TARGET COMPOUNDS	
Acetone	5 J
Carbon Disulfide	10
Benzene	1 J
Styrene	2 J
Dilution Factor	1.000
Total (Allowed) Hold Time	14(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC TRIP BLANK DATA

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	QC	QC	QC	QC	QC
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	IET0689001TB	TAN2489001TB	TAND189001TB	TAND289001TB	TSF0589001TB
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001	USG2489001
TARGET COMPOUNDS					
Methylene Chloride	---	2 J	---	1 JB	3 JB
Acetone	---	---	4 J	6 J	---
Chloroform	---	---	---	---	3 J
Trichloroethene	---	3 J	---	---	---
Toluene	---	1 J	---	---	---
Chlorobenzene	---	2 J	---	---	---
Ethylbenzene	---	2 J	---	---	---
Styrene	---	1 J	---	---	---
Xylene (total)	---	1 J	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	10(14)d	9(14)d	14(14)d	10(14)d	10(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE APPENDIX IX ORGANIC DATA TRIP BLANK (Continued)

AREA	TAN	TAN	TAN	TAN
LOCATION	QC	QC	QC	QC
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	TSF0589002TB	TSF0589003SB	TSF0589003TB	USG2489001TB
MEDIA	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001	USG2489001
TARGET COMPOUNDS				
Methylene Chloride	3 JB	---	2 BJ	2 J
Acetone	3 J	5 J	2 J	---
Chloroform	3 J	---	---	---
Trichloroethene	---	---	---	---
Toluene	---	---	---	---
Chlorobenzene	---	---	---	---
Ethylbenzene	---	---	---	1 J
Styrene	---	---	---	1 J
Xylene (total)	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	10(14)d	10(14)d	10(14)d	11(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - ACETRONITRILE, ACROLEIN, ACRYLONITRILE TRIP BLANK DATA

AREA	TAN	TAN	TAN
LOCATION	QC	QC	QC
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	IET0689001	TAND189001	TAND289001
MEDIA	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L
SDG NUMBER	USG2489001	USG2489001	USG2489001
TARGET COMPOUNDS			
None Detected.			
Dilution Factor	1.0	1.0	1.0
Total (Allowed) Hold Time	7(14)d	6(14)d	2(14)d