UTAH POWER AND LIGHT COMPANY

1982 SUBSIDENCE REPORT

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Des-Bee-Dove Mines, Subsidence Study by Engineering Enterprises Inc.

Deer Creek Mine, Subsidence Graphs and Printouts, Bureau of Mines

RECEIVED
OCT 30 1983
DIVISION OF
OIL, GAS & MINING

1982 SUBSIDENCE REPORT

INTRODUCTION

The East Mountain Subsidence Monitoring Study is an ongoing project designed to detect and observe the effects of and report mining induced subsidence caused by the Deer Creek, Wilberg and Des-Bee-Dove Mines (see figure 1). This report is the second annual report submitted covering the monitoring period between August 1981 and August 1982.

The initial report submitted in 1982 describes in detail the monitoring methods used in this study. Therefore a detailed discussion will not be given here. In brief, UP&L uses aerial photogrammetric survey methods augmented by conventional monumentated on the ground surveys, and an annual helicopter reconnaissance to monitor subsidence. In addition, the Bureau of Mines continues to monitor subsidence caused by Multiple Seam longwall mining above the Deer Creek and Wilberg Mines. Data collected by all these methods are discussed herein.

LOCATION

A helicopter reconnaissance above all areas of UP&L mines which may have subsided was completed on July 20th 1982 (see figure 2). This survey revealed an area of subsidence in addition to the five areas reported in 1982. The location of this most recent area of subsidence is shown together with the five previously identified areas as shown in figure 2.

The observed subsidence at each of the six locations is discussed, by section, in the following paragraphs. The previous report discussed the topographic and geologic setting of the five initially observed areas, therefore, the discussion will not be repeated here. However, if the reader has questions regarding this information a review of the 1981 monitoring report should clarify these issues.

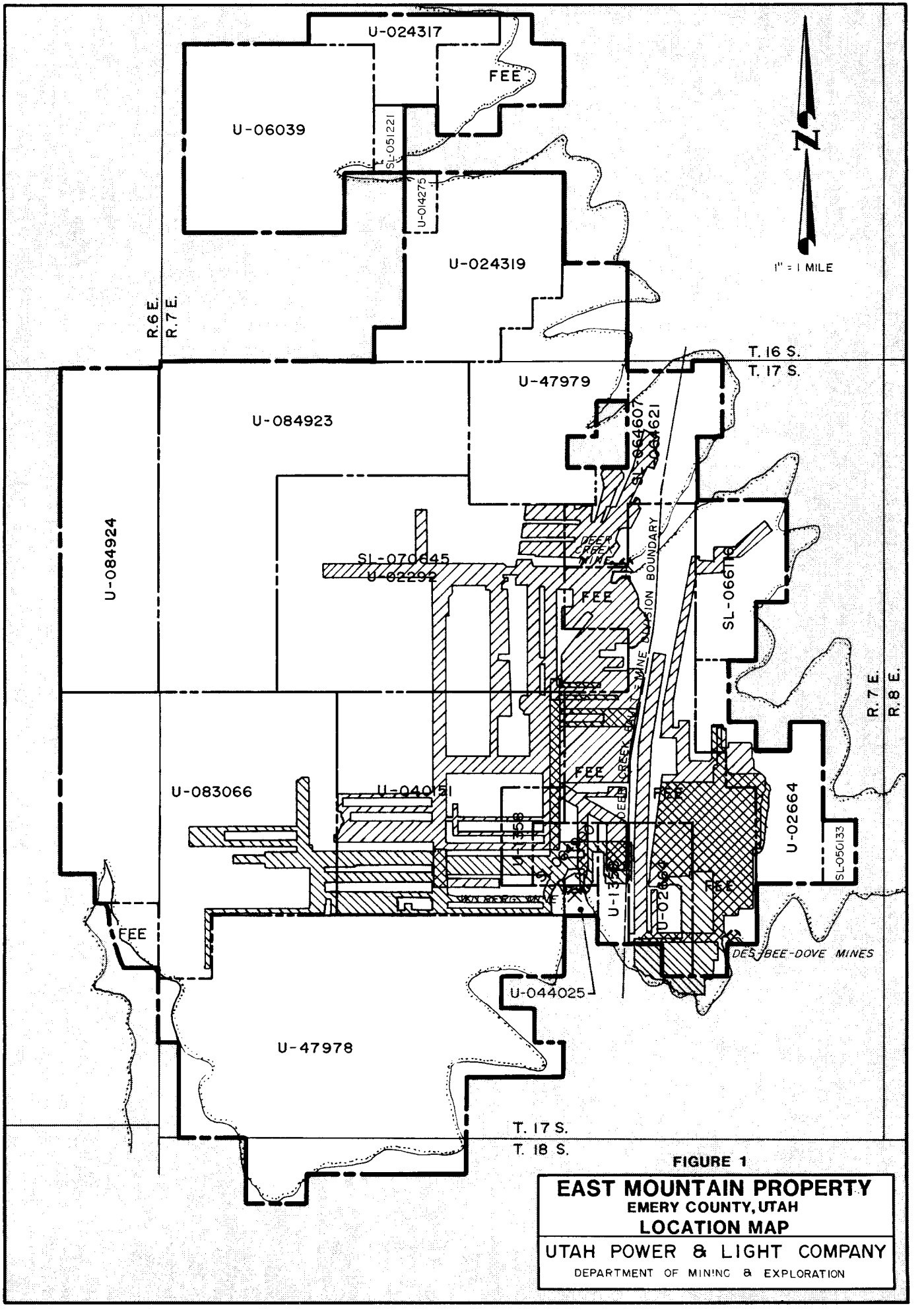
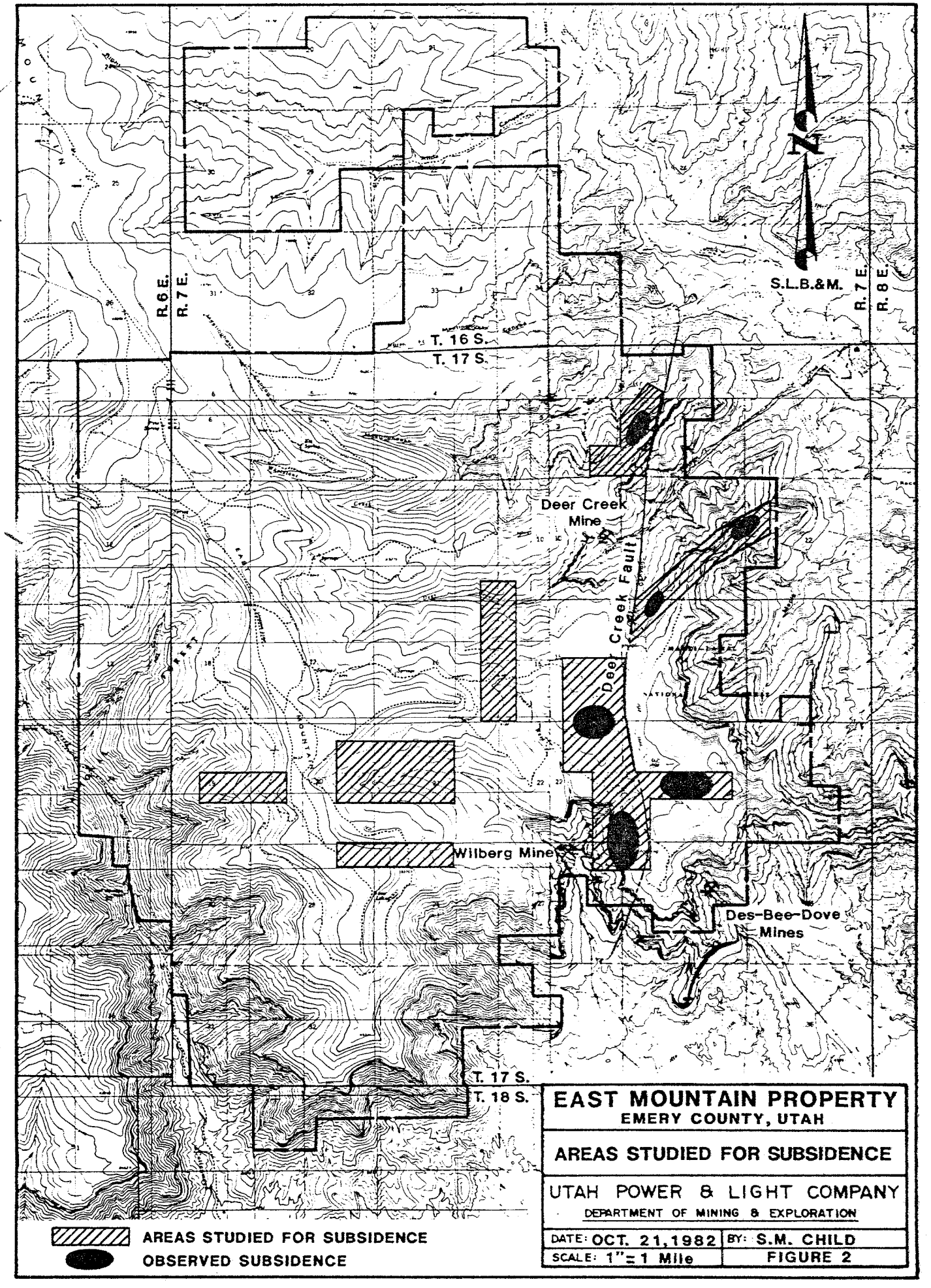


FIGURE 1

EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
LOCATION MAP

UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION



EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH

AREAS STUDIED FOR SUBSIDENCE

UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION

DATE: OCT. 21, 1982	BY: S.M. CHILD
SCALE: 1" = 1 Mile	FIGURE 2

DEER CREEK 9TH EAST - WILBERG 1ST RIGHT

Subsidence in this area was first documented in the 1981 subsidence monitoring report submitted in December, 1982. The relationship of the area of subsidence with the current Deer Creek and Wilberg Mine workings is shown in figure 3.

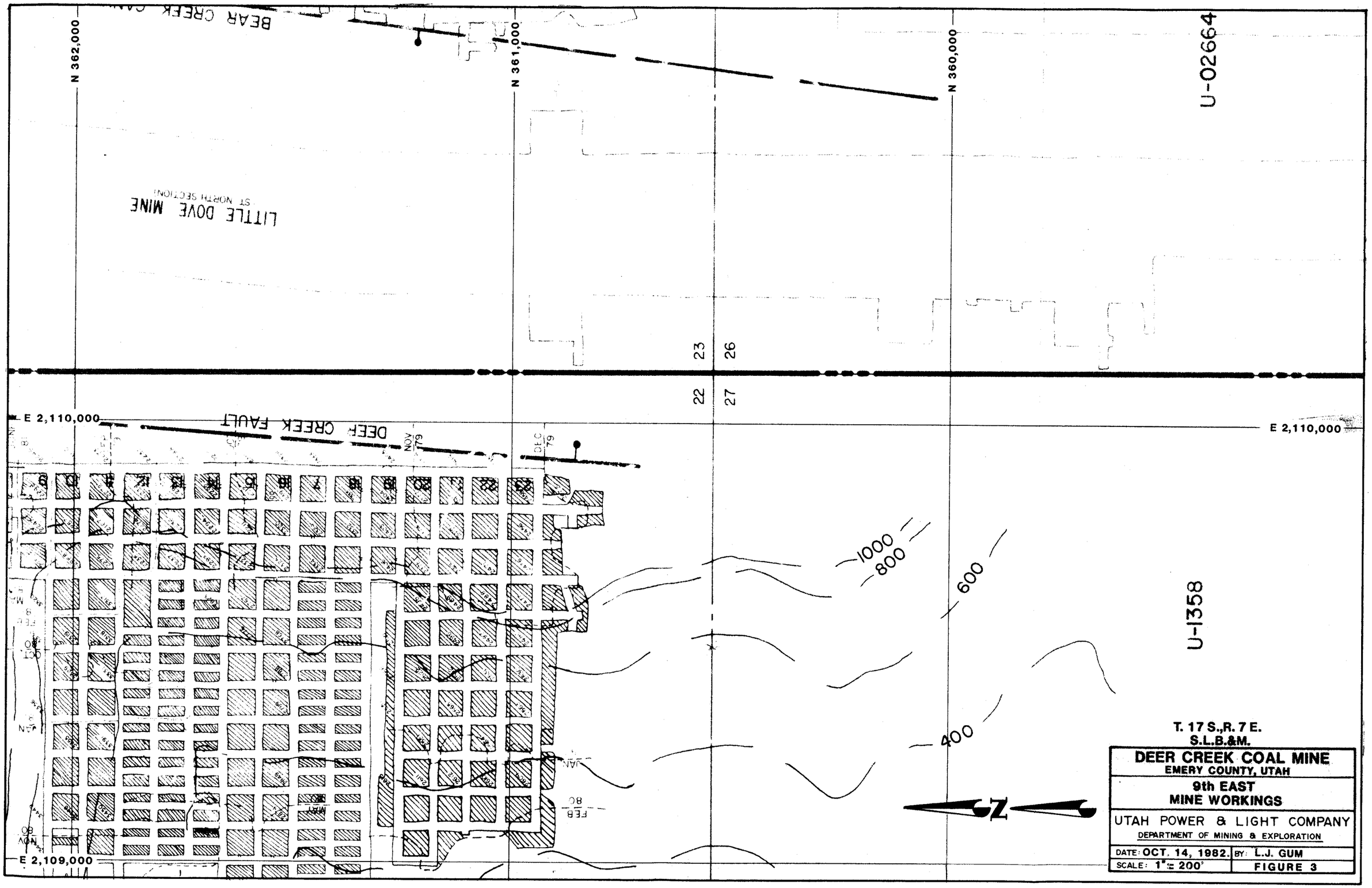
The Subsidence monitoring during 1982 showed a continuation of surface deformation even though the section has been abandoned since the 1981 survey was completed. The maximum subsidence which occurred prior to August 1981 was seven feet and was located immediately above the mine workings (see figure 4). This area overlies burned coal in both the Blind Canyon and Hiawatha Seams which supports the theory that the clinker beds have been crushed allowing subsidence to occur outside of the area of mine workings.

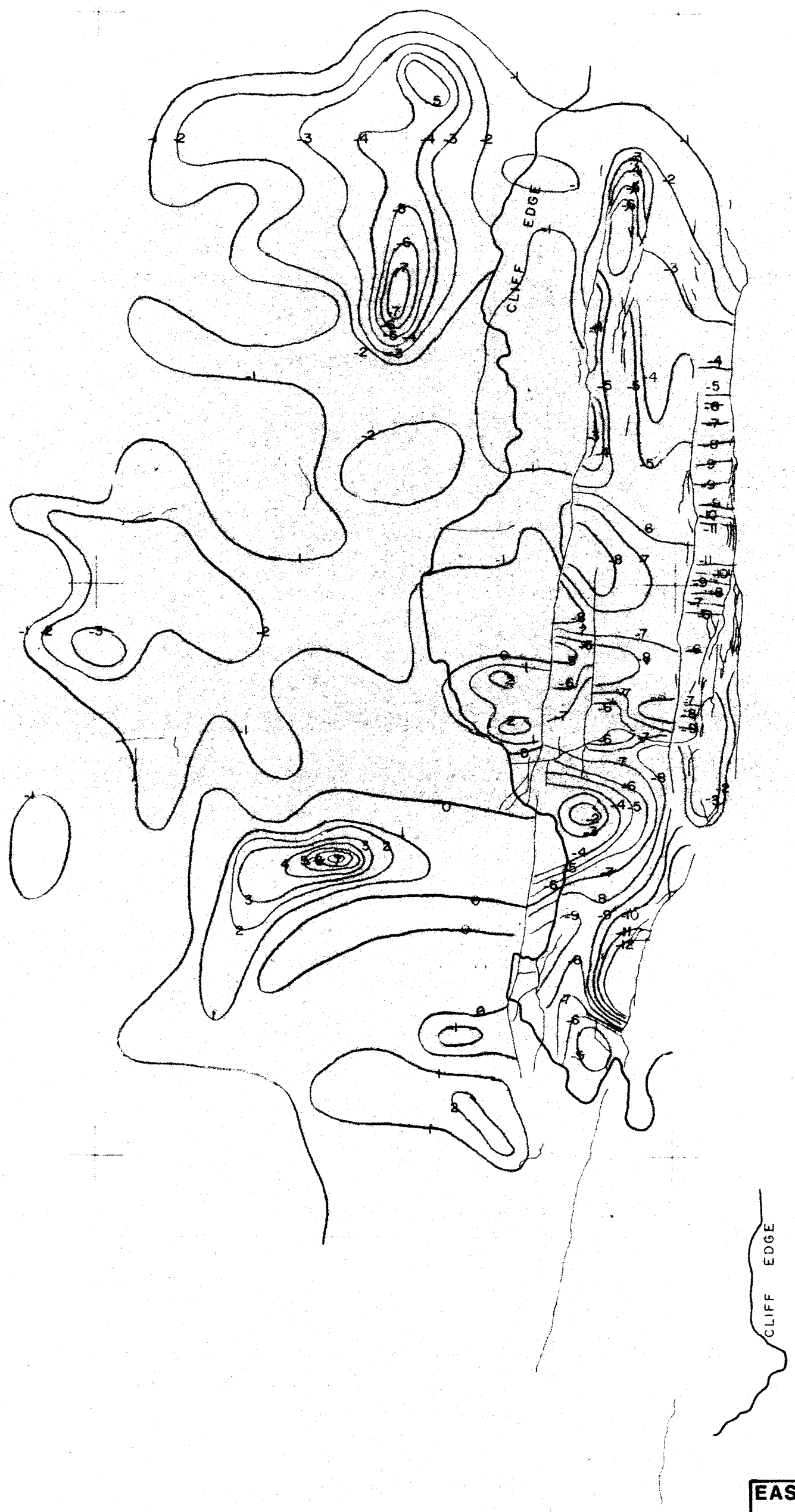
In addition to increased subsidence between 1981 and 1982 more fractures were mapped on the surface. Generally these fractures were within the graben like feature which is present in the disturbed area; however, some local fractures have developed within the Blackhawk formation where the overburden above the mine workings is about 400 feet (see figure 4, coordinates 2,109,500 E, 361,100 N).

The 1982 aerial mapping has identified one area where the land surface appears to have raised up to seven feet (see figure 4, coordinates 2,109,500 E, 360,500 N).

This area is a debris pile formed by a thin slab of the Castlegate Sandstone Cliff which fell between 1981 and 1982. It is possible that this area has subsided one or two feet prior to being covered by the debris.

No Hydrologic impacts of this area of subsidence have been observed.


BEAR CREEK CAN
N 362,000
N 361,000
N 360,000
U-02664
LITTLE DOVE MINE
ST NORTH SECTION
23
26
22
27
E 2,110,000
DEEP CREEK FAULT
NOV 79
DEC 79
1000
800
600
400
U-1358
E 2,110,000
E 2,109,000
T. 17 S.,R. 7 E.
S.L.B.&M.
DEER CREEK COAL MINE
EMERY COUNTY, UTAH
9th EAST
MINE WORKINGS
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: OCT. 14, 1982.
BY: L.J. GUM
SCALE: 1" = 200'
FIGURE 3



EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH

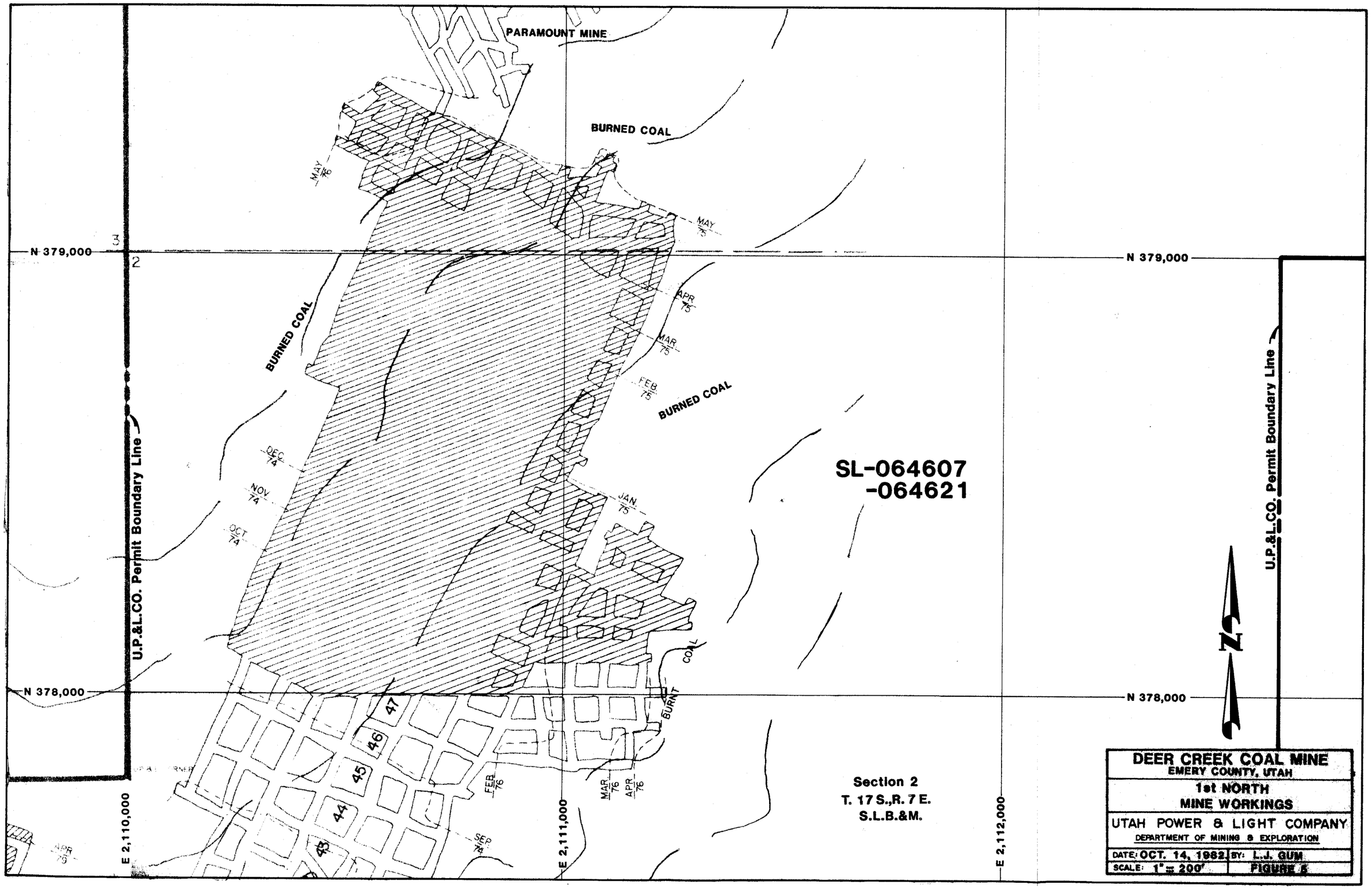
DEER CREEK 9th EAST
WILBERG 1st RIGHT
1982 SUBSIDENCE MAP

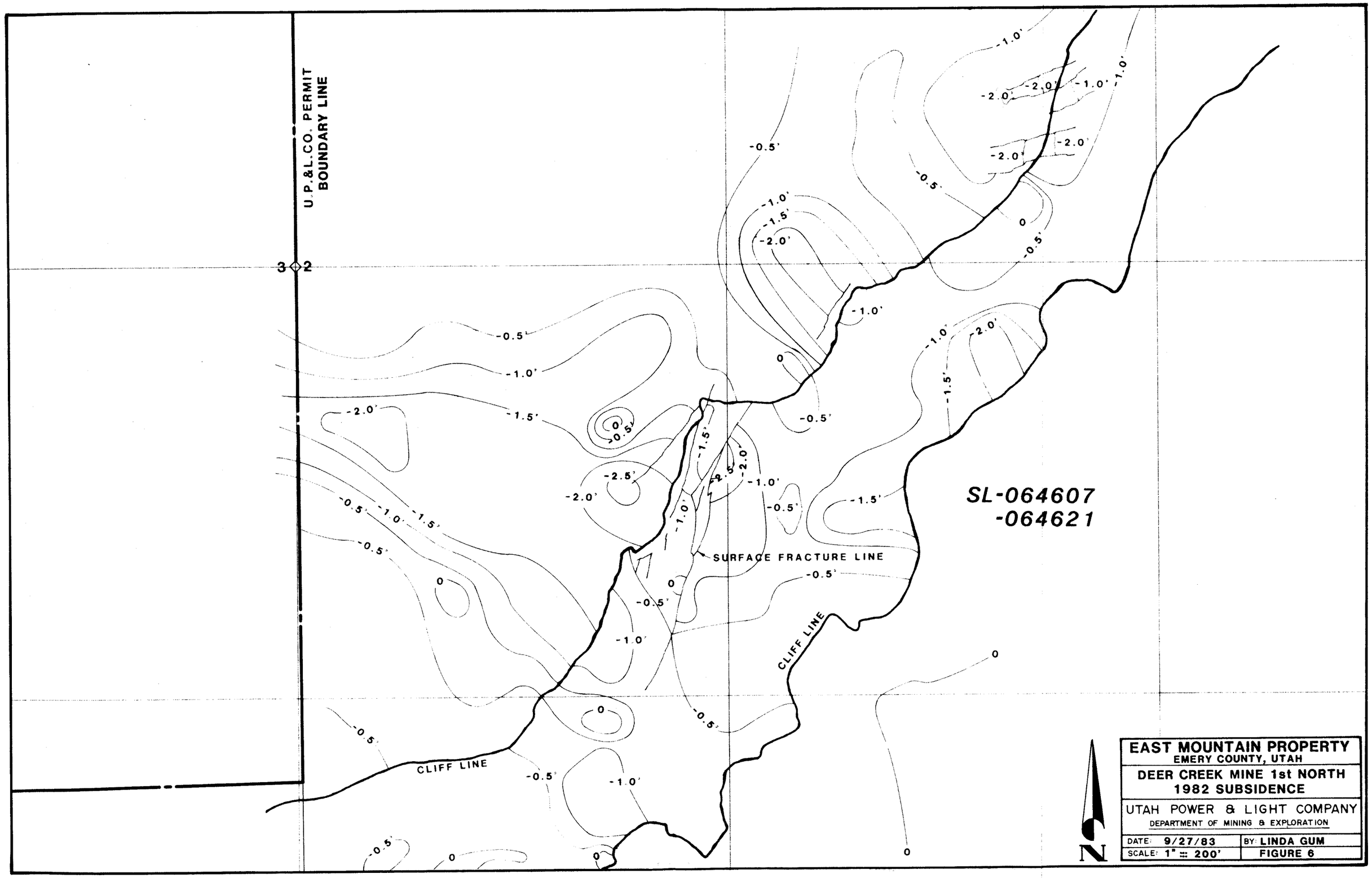
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION

DATE: 9/27/83	BY: LINDA J. GUM
SCALE: 1" = 200'	FIGURE 4

DEER CREEK 1ST NORTH

The 1st North section of the Deer Creek Mine is mined out and sealed having been abandoned in 1978. Nevertheless, additional subsidence was detected during the 1981 - 1982 monitory period. As of August 1981 a maximum of two feet of subsidence had occurred above the mine workings. The 1982 survey showed a slight increase to a maximum of 2.5 feet of subsidence. A comparison of figure 5 with figure 6 illustrates that the area of maximum subsidence is centered above the abandoned mine workings. No additional fracturing of surface disturbance has been observed at this location.

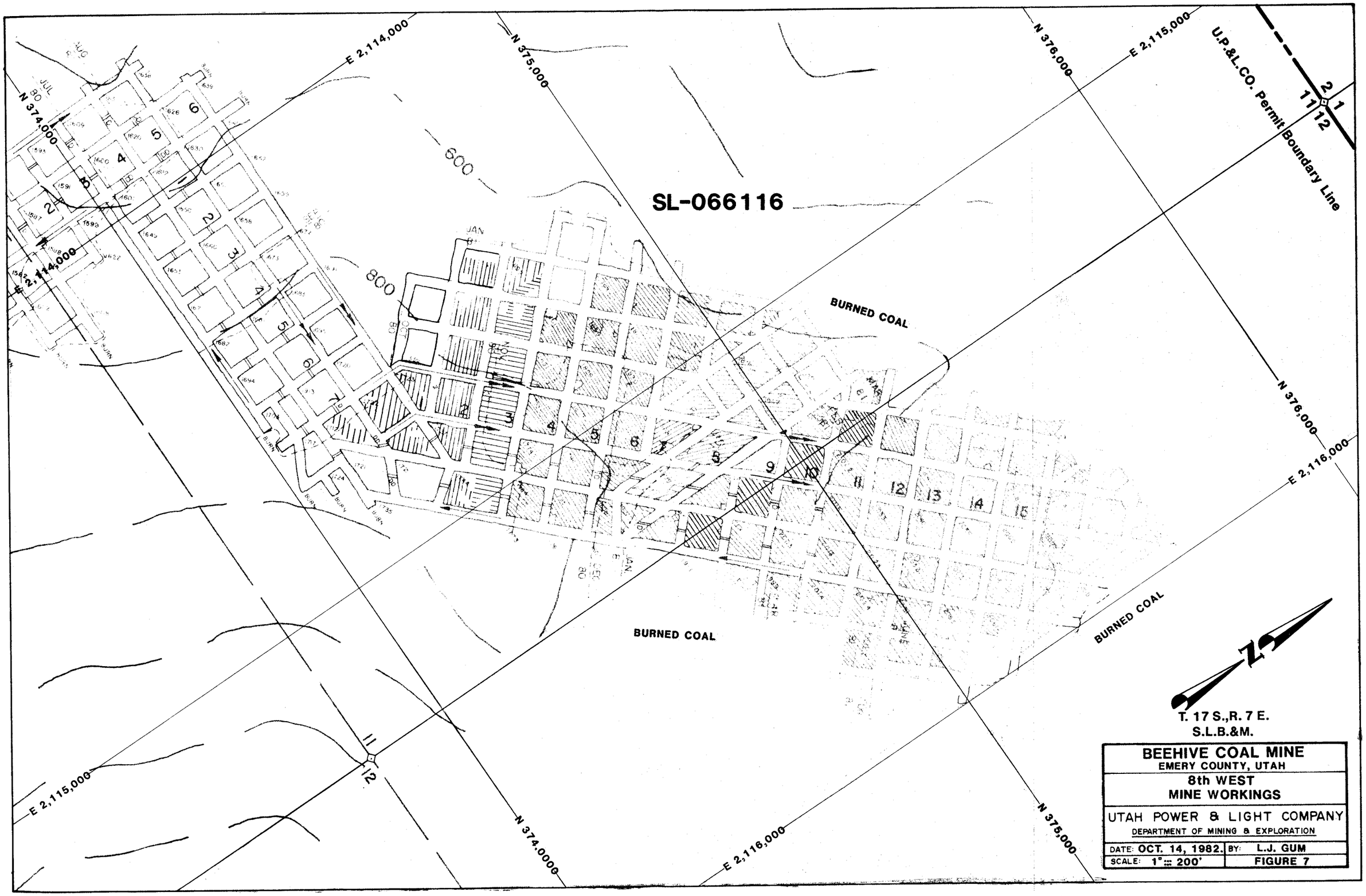

PARAMOUNT MINE
BURNED COAL
BURNED COAL
BURNED COAL
BURNT COAL
MAY 76
MAY 75
APR 75
MAR 75
FEB 75
JAN 75
DEC 74
NOV 74
OCT 74
SEP 74
FEB 76
MAR 76
APR 76
APR 76
N 379,000
N 378,000
N 379,000
N 378,000
3
2
U.P.&L.CO. Permit Boundary Line
U.P.&L.CO. Permit Boundary Line
SL-064607
-064621
47
46
45
44
43
E 2,110,000
E 2,111,000
E 2,112,000
Section 2
T. 17 S.,R. 7 E.
S.L.B.&M.
N
DEER CREEK COAL MINE
EMERY COUNTY, UTAH
1st NORTH
MINE WORKINGS
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: OCT. 14, 1982
BY: L.J. GUM
SCALE: 1" = 200'
FIGURE 5

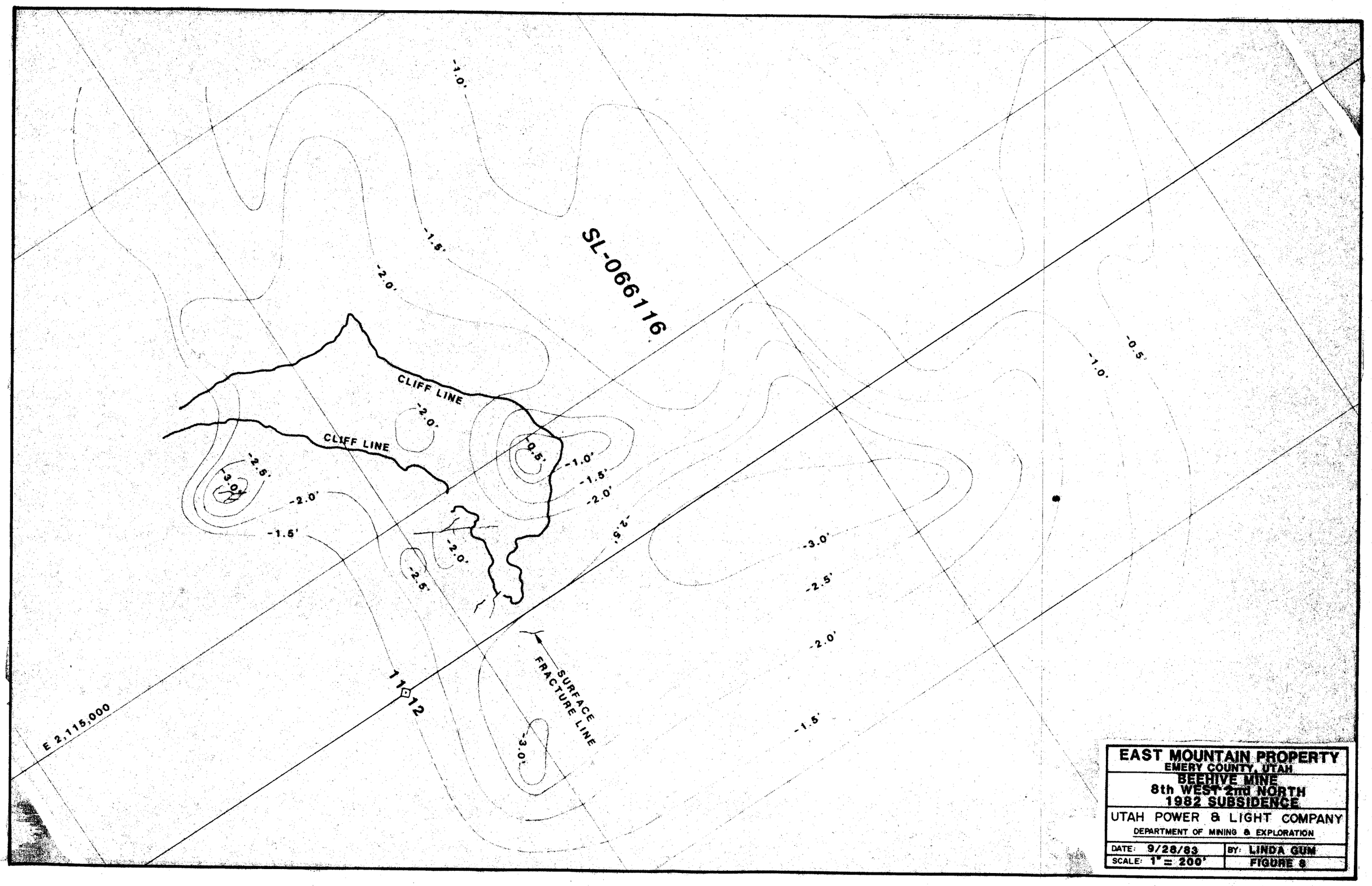

U.P.&L.CO. PERMIT BOUNDARY LINE
3
2
SL-064607
-064621
SURFACE FRACTURE LINE
CLIFF LINE
CLIFF LINE
N
EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
DEER CREEK MINE 1st NORTH
1982 SUBSIDENCE
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: 9/27/83
BY: LINDA GUM
SCALE: 1" = 200'
FIGURE 6

BEEHIVE MINE 8TH WEST

Pillar extraction mining continued throughout the August 1981 to August 1982 monitoring period in the Beehive 8th West section. All of the pillar extraction was adjacent to burned coal. There the subsidence was measured to have dropped three feet in 1981 with no change measured in 1982.

Although pillars were pulled as far as 1100 feet south of the area mined in 1981, the area of subsidence remained the same as in 1981. In general this area of subsidence appears to have stabilized (see figures 7 and 8).


E 2,114,000
N 375,000
N 376,000
E 2,115,000
U.P.&L.CO. Permit Boundary Line
N 374,000
E 2,114,000
600
800
SL-066116
BURNED COAL
BURNED COAL
BURNED COAL
N 376,000
E 2,116,000
E 2,115,000
N 374,0000
E 2,116,000
N 375,000
T. 17 S.,R. 7 E.
S.L.B.&M.
BEEHIVE COAL MINE
EMERY COUNTY, UTAH
8th WEST
MINE WORKINGS
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: OCT. 14, 1982.
BY: L.J. GUM
SCALE: 1" = 200'
FIGURE 7


SL-066116
CLIFF LINE
CLIFF LINE
SURFACE FRACTURE LINE
E 2,115,000
11
12
-1.0'
-1.5'
-2.0'
-2.5'
-3.0'
-0.5'
EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
BEEHIVE MINE
8th WEST 2nd NORTH
1982 SUBSIDENCE
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: 9/28/83
BY: LINDA GUM
SCALE: 1" = 200'
FIGURE 8

1ST NORTH LITTLE DOVE

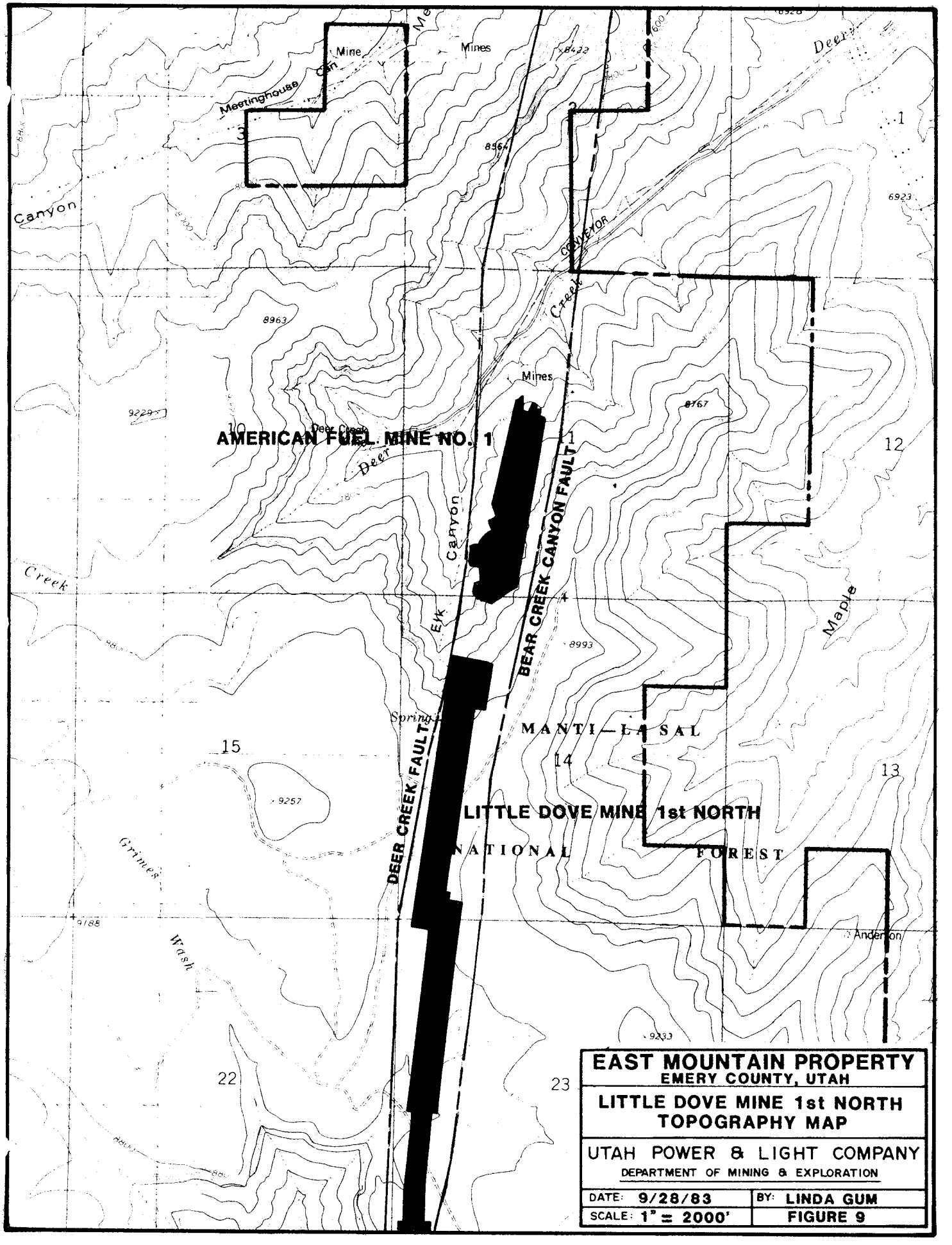
The 1982 subsidence monitoring revealed a new area of subsidence on a steep side hill about one mile south of the Deer creek Mine portal (see figure 9). In this area the Castlegate Sandstone crops out forming a 250 foot cliff which overlies a steep cedar covered slope (see figure 10). The coal within this area is overlain by 600 to 1200 feet of overburden.

This area of subsidence is adjacent to an area overlaying an unmapped portion of the abandoned American Fuels mine. In early August of 1982 mining in the First North section of the Little Dove Mine intersected the old mine workings about 2600 feet south of where they were depicted on a map (see figure 11). The mining conditions in that area indicated that the strata were highly stressed. In some cases pillars were crushed prior to the time they could be extracted. Apparently the recent mining rejuvenated the stresses above the old working causing subsidence to occur in this area. The angle of draw offset the subsidence so it is located about 200 feet east of the mine workings.

The observed subsidence is evident from five northeast trending fractures, the easternmost and largest of which is located along the surface trace of the Bear Creek fault. The land surface in this area has been measured photogrammetrically to have dropped up to two feet (see figure 12).

The cause of this subsidence can only be attributed to the added stresses subjected to the American fuel mine workings when the Little Dove Mine approached that area. The Eighth West Beehive Mine section is located immediately above this area but those mine working remain open without any pillars having been pulled.

Therefore, the eighth west section of the Beehive Mine is not considered as the cause of the subsidence. It is felt that this area will have no impact on the hydrology of this area because the strata appear to be dry and no springs have been observed on the surface in this area.



EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH

LITTLE DOVE MINE 1st NORTH
TOPOGRAPHY MAP

UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION

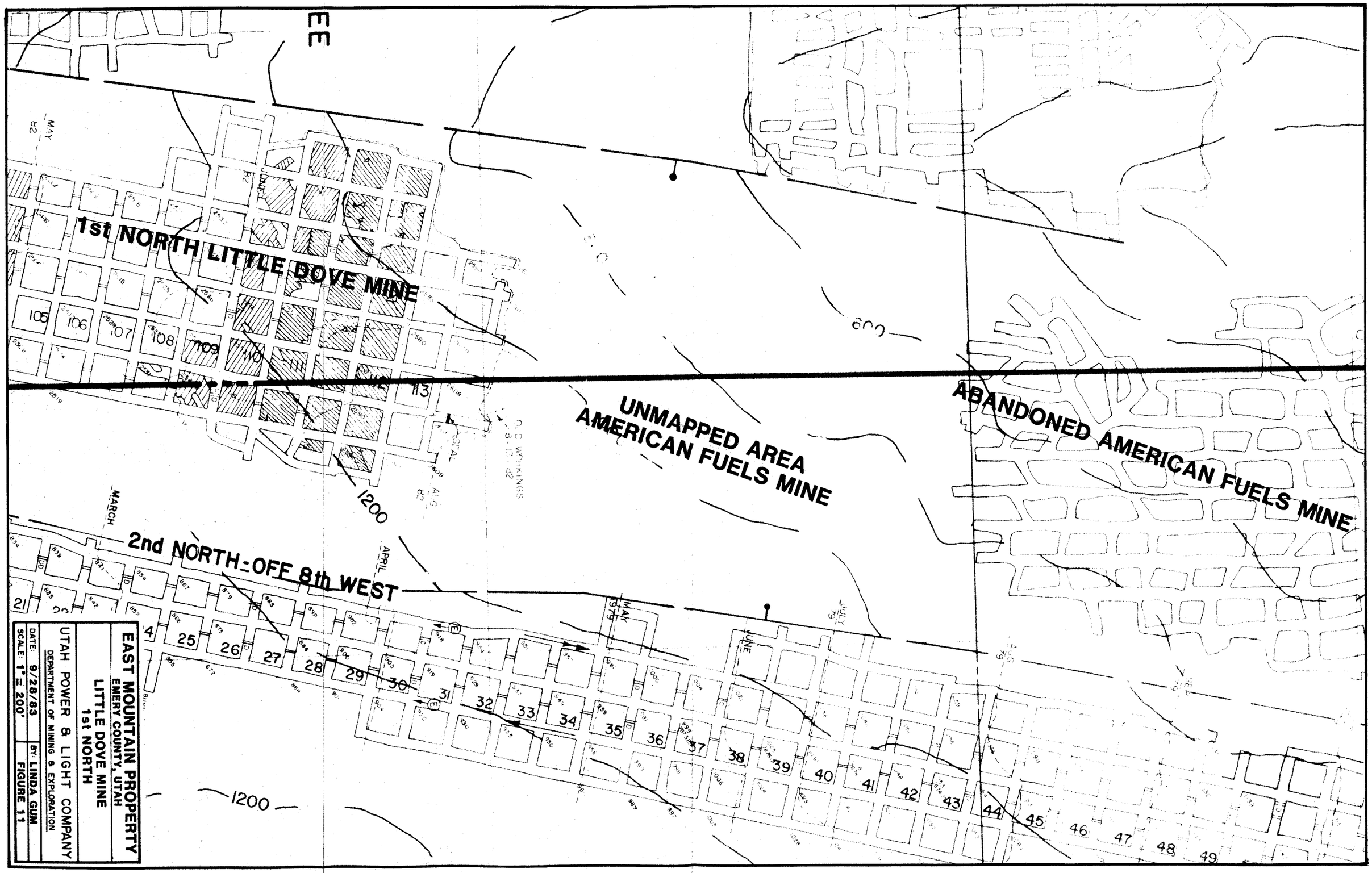
DATE: 9/28/83	BY: LINDA GUM
SCALE: 1" = 2000'	FIGURE 9

EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH

LITTLE DOVE MINE
1st NORTH

UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION

DATE: 10/5/83	BY: LINDA J. GUM
SCALE: 1" = 800'	FIGURE 10


EE
1st NORTH LITTLE DOVE MINE
UNMAPPED AREA
AMERICAN FUELS MINE
ABANDONED AMERICAN FUELS MINE
2nd NORTH-OFF 8th WEST
MARCH
APRIL
MAY
JUNE
1200
600
105
106
107
108
109
110
111
112
113
21
4
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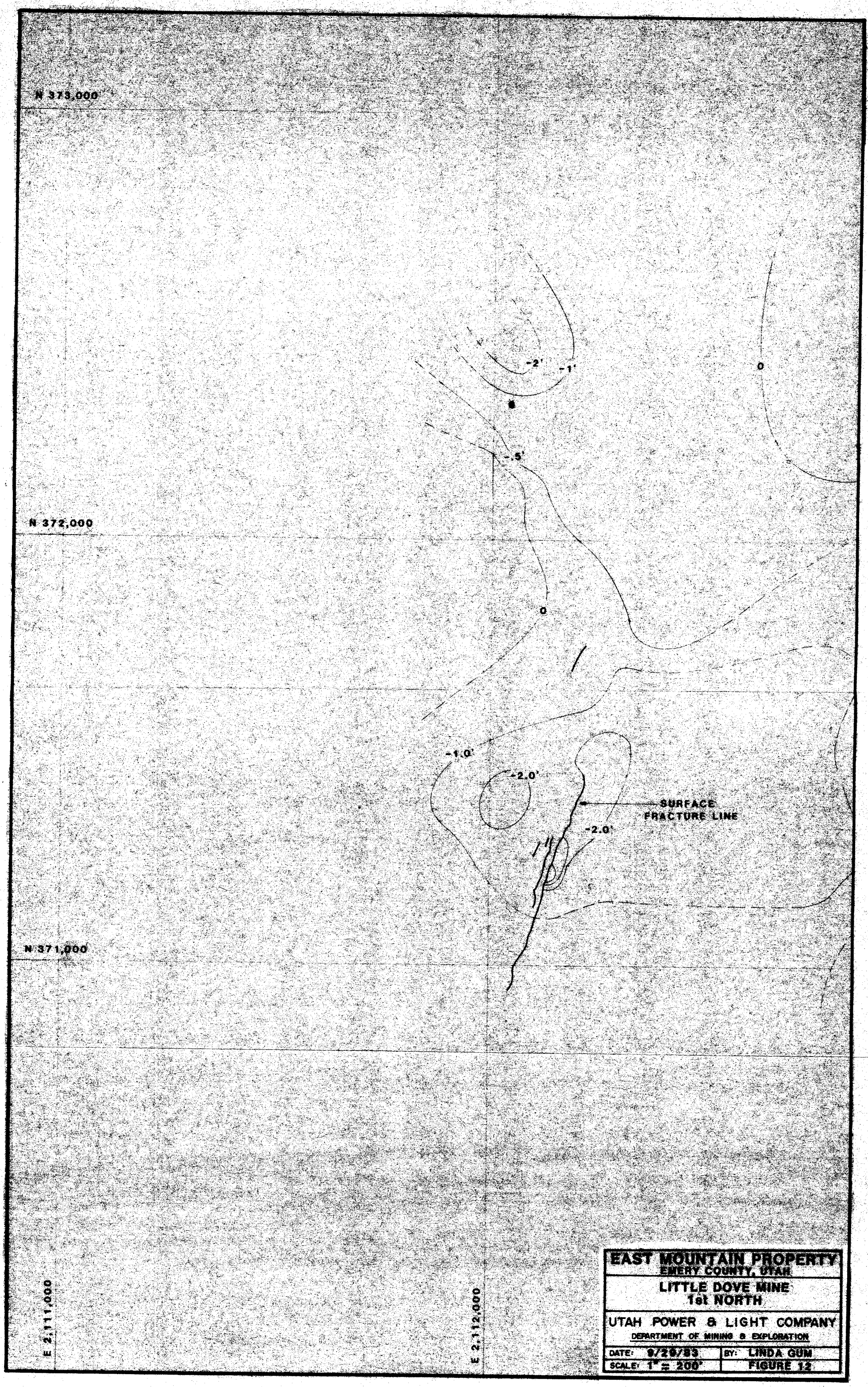
49
EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
LITTLE DOVE MINE
1st NORTH
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: 9/28/83
BY: LINDA GUM
SCALE: 1" = 200'
FIGURE 11

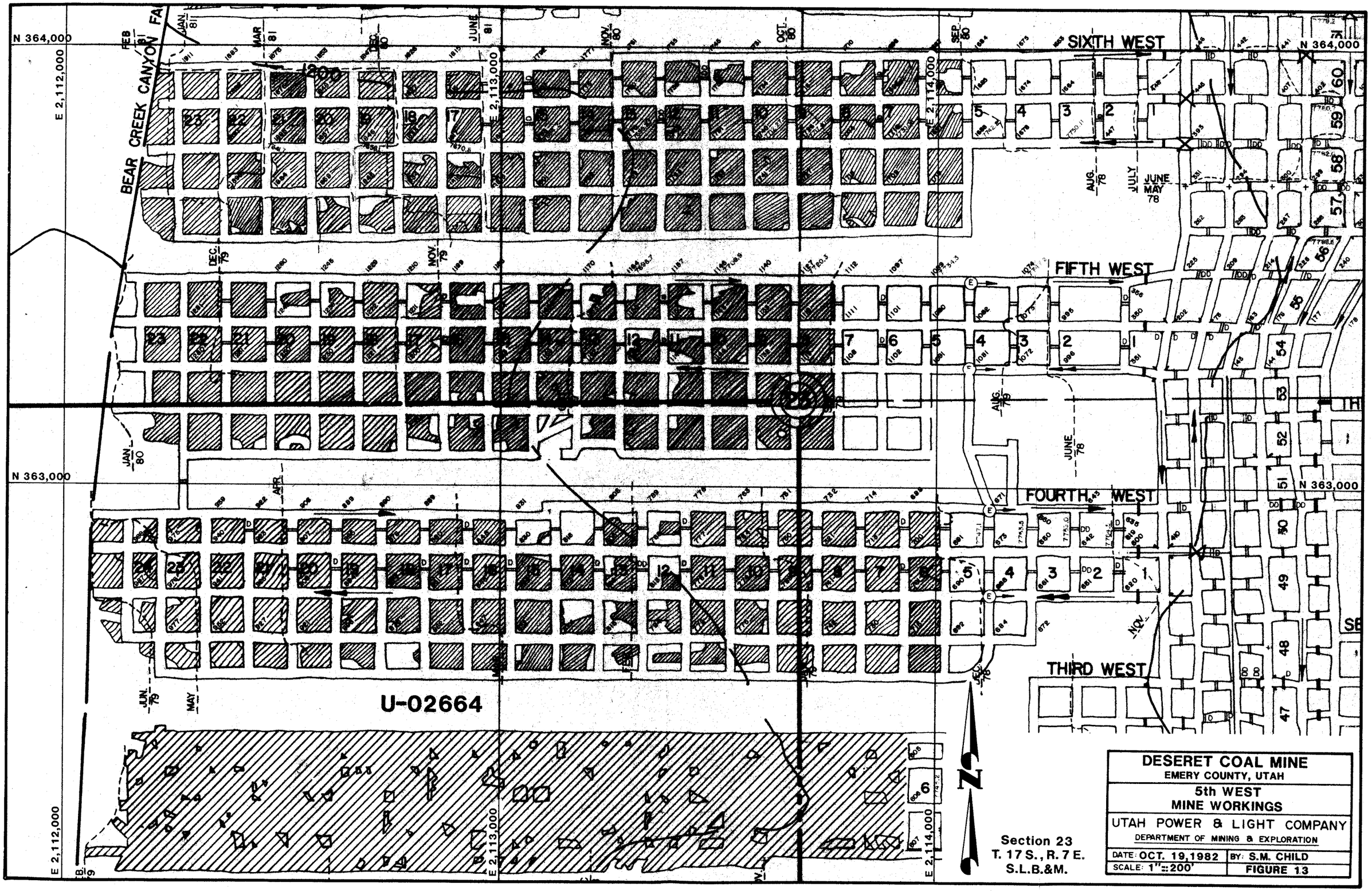

N 373,000
N 372,000
N 371,000
E 2,111,000
E 2,112,000
-2'
-1'
0
-.5'
0
-1.0'
-2.0'
-2.0'
SURFACE
FRACTURE LINE
EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
LITTLE DOVE MINE
1st NORTH
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: 9/29/83
BY: LINDA GUM
SCALE: 1" = 200'
FIGURE 12

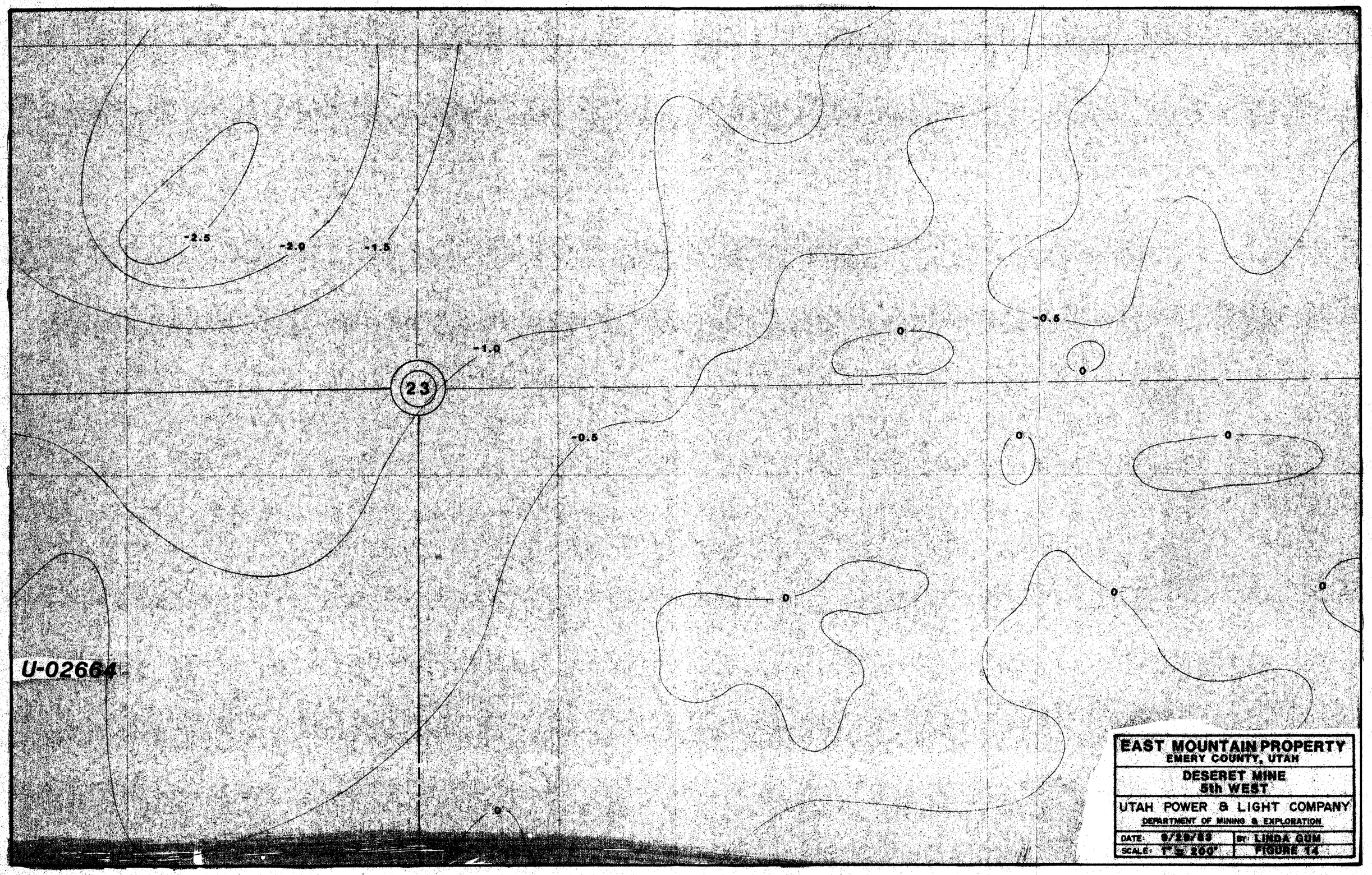
BEEHIVE 4TH WEST, DESERET MINE 5TH WEST

Mining in this area in both the Beehive and Deseret Mines had been completed prior to August of 1981. A total of 18 feet of coal was mined in the two seams and pillars were extracted allowing the mine workings to collapse (see figure 13).

The subsidence in this area was measured using a conventional monumented grid centered over the Beehive Mine 4th West section. This monitoring revealed that the maximum subsidence had increased slightly from 1.7 feet in 1981 to 2.5 feet in 1982 as shown in figure 14.

No visual effects or fracturing have been observed on this study site. On the ground monitoring will continue through 1983 and be terminated if no further subsidence is detected. This area will be covered by annual photogrammetrical methods for the remainder of mining life.

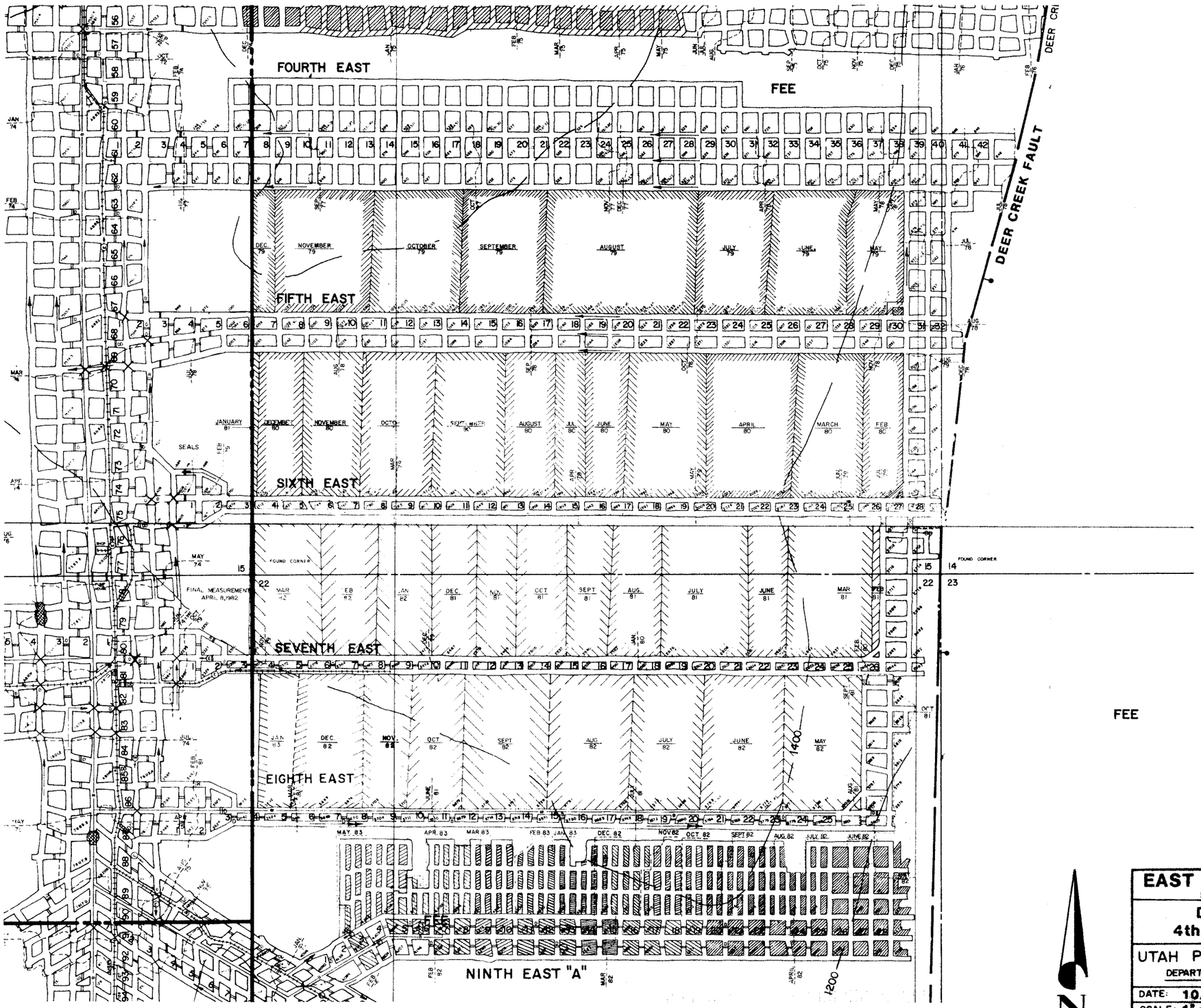

N 364,000
N 363,000
E 2,112,000
E 2,113,000
E 2,114,000
BEAR CREEK CANYON
SIXTH WEST
FIFTH WEST
FOURTH WEST
THIRD WEST
U-02664
N
Section 23
T. 17 S., R. 7 E.
S.L.B.&M.
DESERET COAL MINE
EMERY COUNTY, UTAH
5th WEST
MINE WORKINGS
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: OCT. 19,1982
BY: S.M. CHILD
SCALE: 1"=200'
FIGURE 13


-2.5
-2.0
-1.5
-1.0
-0.5
0
23
U-02664
EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
DESERET MINE
5th WEST
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: 9/29/83
BY: LINDA GUM
SCALE: 1" = 200'
FIGURE 14

DEER CREEK MINE 4TH, 5TH, 6TH, and 7TH LONGWALL PANELS, WILBERG MINE 10TH RIGHT

By August of 1982 longwall mining in three panels in the Deer Creek Mine (4th E, 5th E & 6th E) had been completed and the mining in the southernmost longwall panel in the Deer Creek mine in that area (7th E) had begun. Underlying these panels in the Wilberg Mine the first longwall panel in this area (10th Right) was also being mined.

The Bureau of Mines subsidence monumentation and surveys revealed that the subsidence in this area had increased from 2.6 feet to over 5 feet between 1981 and 1982. The measurements taken showed the greatest area of subsidence to be located over the 6th East panel of the Deer Creek Mine as can be seen by comparing figures 15 and 16. This subsidence has occurred without any fracturing or visual evidence on the surface. No springs have been identified within the area of subsidence but springs located one-fourth mile west still show no effect from the subsidence.



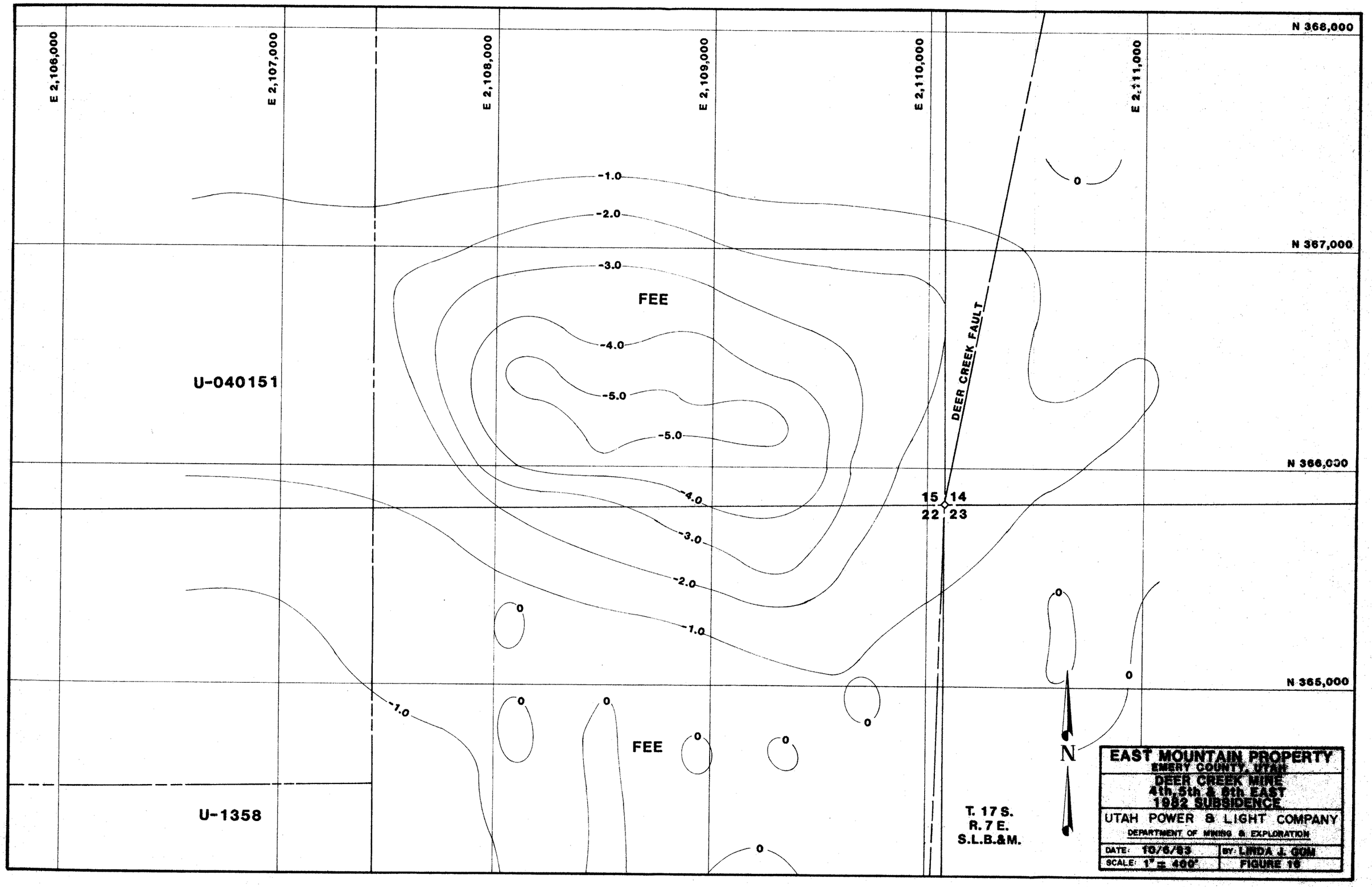
N

EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH

DEER CREEK MINE
4th, 5th, 6th & 7th EAST

UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION

DATE: 10/6/83	BY: LINDA J. GUM
SCALE: 1" = 400'	FIGURE 15


N 368,000
N 367,000
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N 365,000
E 2,106,000
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E 2,109,000
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E 2,111,000
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-2.0
-3.0
-4.0
-5.0
-5.0
-4.0
-3.0
-2.0
-1.0
-1.0
0
FEE
U-040151
DEER CREEK FAULT
15 14
22 23
FEE
U-1358
T. 17 S.
R. 7 E.
S.L.B.&M.
N
EAST MOUNTAIN PROPERTY
EMERY COUNTY, UTAH
DEER CREEK MINE
4th, 5th & 6th EAST
1982 SUBSIDENCE
UTAH POWER & LIGHT COMPANY
DEPARTMENT OF MINING & EXPLORATION
DATE: 10/6/83
BY: LINDA J. GOM
SCALE: 1" = 400'
FIGURE 16

SUMMARY

As of August 1982, Utah Power and Light Company has identified six areas of mining induced subsidence. Four of the areas are very similar in geologic setting and observed subsidence effects. These are located in areas of steep slopes and cliffs formed by the Castlegate Sandstone. Also, the mine workings were located adjacent to burned coal or abandoned mine workings. These factors helped promote fracturing which reached the surface. Two areas having a different geologic setting and observed effects of subsidence were also identified. These areas are located within the interior of the property with much greater overburden above the coal seam. Although large areas of coal have been removed by longwall and room and pillar methods beneath these areas, the strata have subsided without the development of surface fractures.

The influence of modern mining methods on allowing surface subsidence to occur without impacting the environment has been demonstrated in the mining of the Deer Creek 4th through 7th East longwall panels and the Beehive 4th West - Deseret 5th west room and pillar sections. In these areas subsidence has occurred without any visual or hydrologic effects. In excess of 80% of the property have conditions similar to those areas. It is therefore felt that the mining methods utilized are suited to the geologic conditions allowing a controlled subsidence to occur.

REPORT OF SUBSIDENCE STUDY

LOCATED ON EAST MOUNTAIN ABOVE THE

DES-BEE-DOVE
COAL MINES

from October 1980
to November 1982

By

Intermountain Aerial Surveys
A Div. of Engineering Enterprises, Inc.

Salt Lake City, Utah

SUBSIDENCE REPORT
DES-BEE-DOVE COAL MINES

I. Scope of Work

A. Establish Monuments on East Mountain above the "Des-Bee-Dove" Mine System as directed. Included sketch shows locations as related to mine workings. Computation sheets identify station location by State Plane Coordinate System (Utah Central Zone Modified C.A.F. = 1.0004350)

B. Monitor elevation changes on Monuments at monthly intervals as long as weather allows practical access.

II. Procedures

A. Elevations were established in 1980 by use of trigonometric leveling. Vertical angles were measured with a Wild T-2 theodolite. Accepted survey practices were utilized to insure reasonable accuracies.

B. 1982 Elevations were monitored by differential leveling. Third order technique and accuracies were observed.

C. Horizontal point determination was accomplished by employing third order techniques. Wild T-2 theodolites and AGA Model 78 Distance Measuring Equipment were used.

III. Control Datum

Control point "P-3" is used as the reference monument for this study. It is located on East Mountain, east of the monitoring line (See computation sheets). Its stability has been tested by recalculating several control networks which have passed through the station throughout the last several years. To insure against the possibility of future subsidence it will be tied to control point "M-2" at systematic periods throughout the monitoring year by trigonometric leveling. M-2 is located near the portal of the Deseret Mine and is outside of the area of any suspected subsidence.

SUBSIDENCE STUDY

DES-BEE-DOVE COAL MINES

STATION	VABM OCT 80	JULY 82	AUGUST 82	SEPT 82	OCT 82	NOV 82	DIFF. 80 - NOV 82
P-3	9239.89	9239.89	9239.89		9239.89	9239.89	Fixed
BS-21	9223.5	9223.60	9223.55		9223.60	9223.56	+0.1
BS-20	9210.2	9210.32	9210.27		9210.36	9210.28	+0.1
BS-19	9201.9	9202.00	9201.94		9202.03	9201.96	+0.1
BS-18	9188.7	9188.74	9188.66		9188.71	9188.68	0
BS-17	9167.2	9167.14	9167.05		9167.12	9167.08	-0.1
BS-16	9147.1	9146.73	9146.61		9146.71	9146.66	-0.4
BS-15	9125.4	9124.75	9124.59		9124.72	9124.66	-0.7
BS-14	9106.7	9105.91	9105.73		9105.90	9105.81	-0.9
BS-13	9085.8	9084.81	9084.61		9084.80	9084.70	-1.1
BS-12	9062.3	9061.21	9060.99		9061.20	9061.11	-1.2
BS-11	9038.3	9037.15	9036.91		9037.13	9037.05	-1.3
BS-10	9016.5	9015.38	9015.11		9015.36	9015.27	-1.2
BS-9	8993.3	8992.14	8991.86		8992.14	8992.03	-1.3
BS-8	8962.8	8961.74	8961.44		8961.74	8961.64	-1.2

SUBSIDENCE STUDY

DES-BEE-DOVE COAL MINES

STATION	VABM OCT 80	JULY 82	AUGUST 82	SEPT 82	OCT 82	NOV 82	DIFF. 80 - NOV 82
BS-7	8931.0	8930.08	8929.74		8930.07	8929.98	-1.0
BS-6	8900.6	8899.81	8899.45		8899.79	8899.71	-0.9
BS-5	8867.4	8867.45	8867.10		8867.46	8867.39	0
BS-4	8846.5	8846.56	8846.19		8846.60	8846.51	0
BS-3	8806.6	8806.76	8806.38		8806.80	8806.71	+0.1
BS-2	8795.2	8795.36	8794.98		8795.40	8795.29	+0.1
BS-1	8785.6	8785.67	8785.27		8785.73	8785.54	-0.1

SUBSIDENCE STUDY

DES-BEE-DOVE COAL MINES

STATION	VABM OCT 80	JULY 82	AUG 82	SEPT 82	OCT 82	NOV 82	DIFF 80 - NOV 82
BS-9							
#1 No.	8983.8	8982.48	8982.19		8982.48	8982.36	-1.4
#2 No.	8973.9	8972.44	8972.15		8972.44	8972.32	-1.6
#3 No.	8960.0	8958.44	8958.15		8958.42	8958.32	-1.7
#4 No.	8946.8	8945.12	8944.82		8945.10	8945.02	-1.8
BS-9							
#1 So.	8995.7	8994.72	8994.44		8994.72	8994.61	-1.1
#2 So.	8992.6	8991.73	8991.45		8991.72	8991.61	-1.0
#3 So.	8980.6	8979.85	8979.57		8979.84	8979.75	-0.9
#4 So.	8958.3	8957.61	8957.32		8957.57	8957.50	-0.8

SUBSIDENCE STUDY

DES-BEE-DOVE COAL MINES

STATION	VABM OCT 80	JULY 82	AUGUST 82	SEPT 82	OCT 82	NOV 82	DIFF 80 - NOV 82
BS-14							
#1 No.	9103.0	9102.16	9101.97		9102.14	9102.05	-1.0
#2 No.	9098.8	9097.88	9097.69		9097.86	9097.76	-1.0
#3 No.	9087.4	9086.34	9086.14		9086.31	9086.22	-1.2
#4 No.	9076.8	9075.74	9075.52		9075.69	9075.61	-1.2
BS-14							
#1 So.	9105.2	9104.46	9104.27		9104.44	9104.35	-0.9
#2 So.	9095.0	9094.32	9094.13		9094.30	9094.21	-0.8
#3 So.	9082.8	9082.18	9081.99		9082.16	9082.05	-0.8
#4 So.	9079.4	9078.88	9078.70		9078.86	9078.77	-0.6

DIRECT _____

FROM _____

TO _____

SPIRIT LEVELING

SHEET _____ OF _____

DATE 20-Sep-82

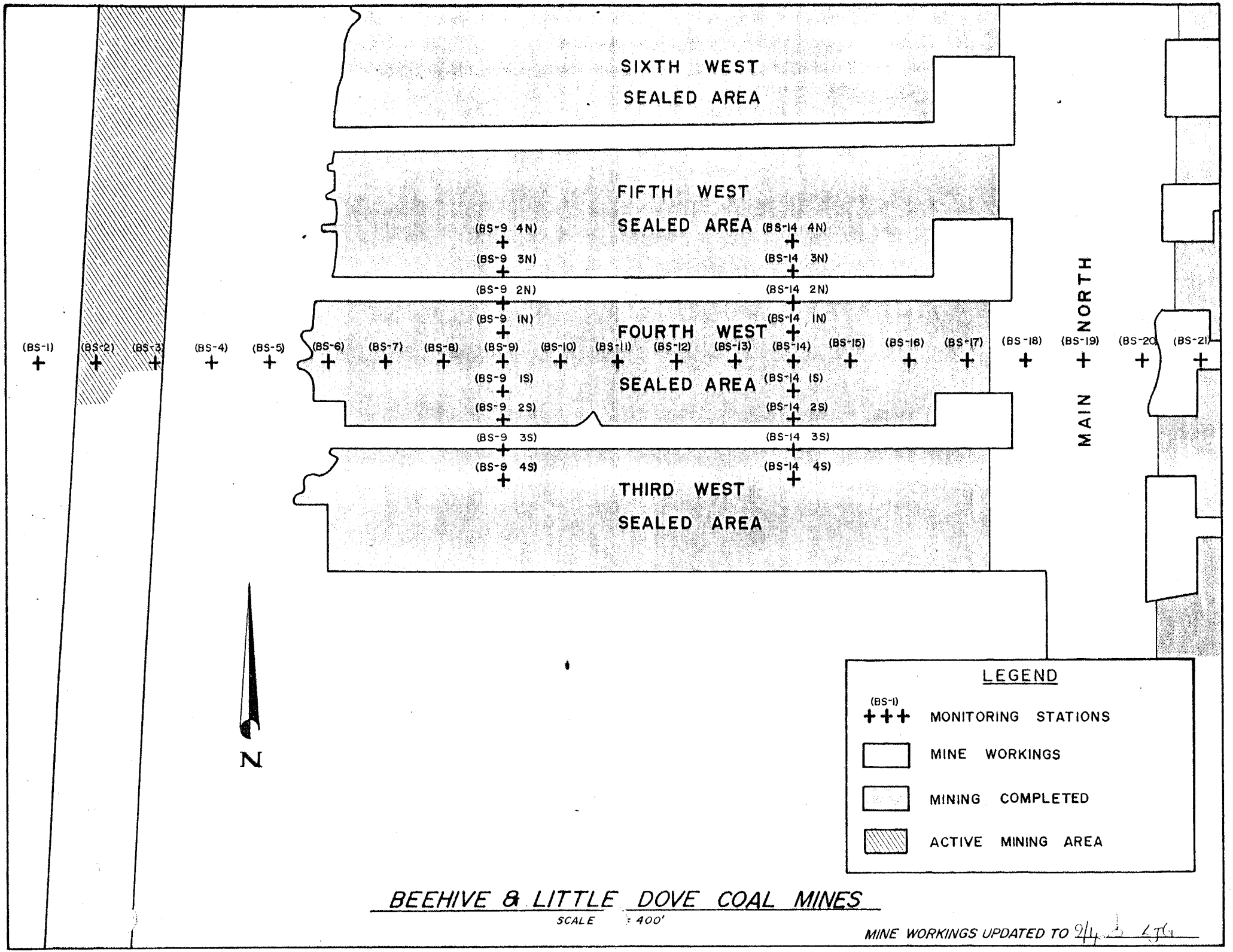
JOB NO. 8216

INST. NO. _____

CHIEF PARTY _____

ADJ. BY _____

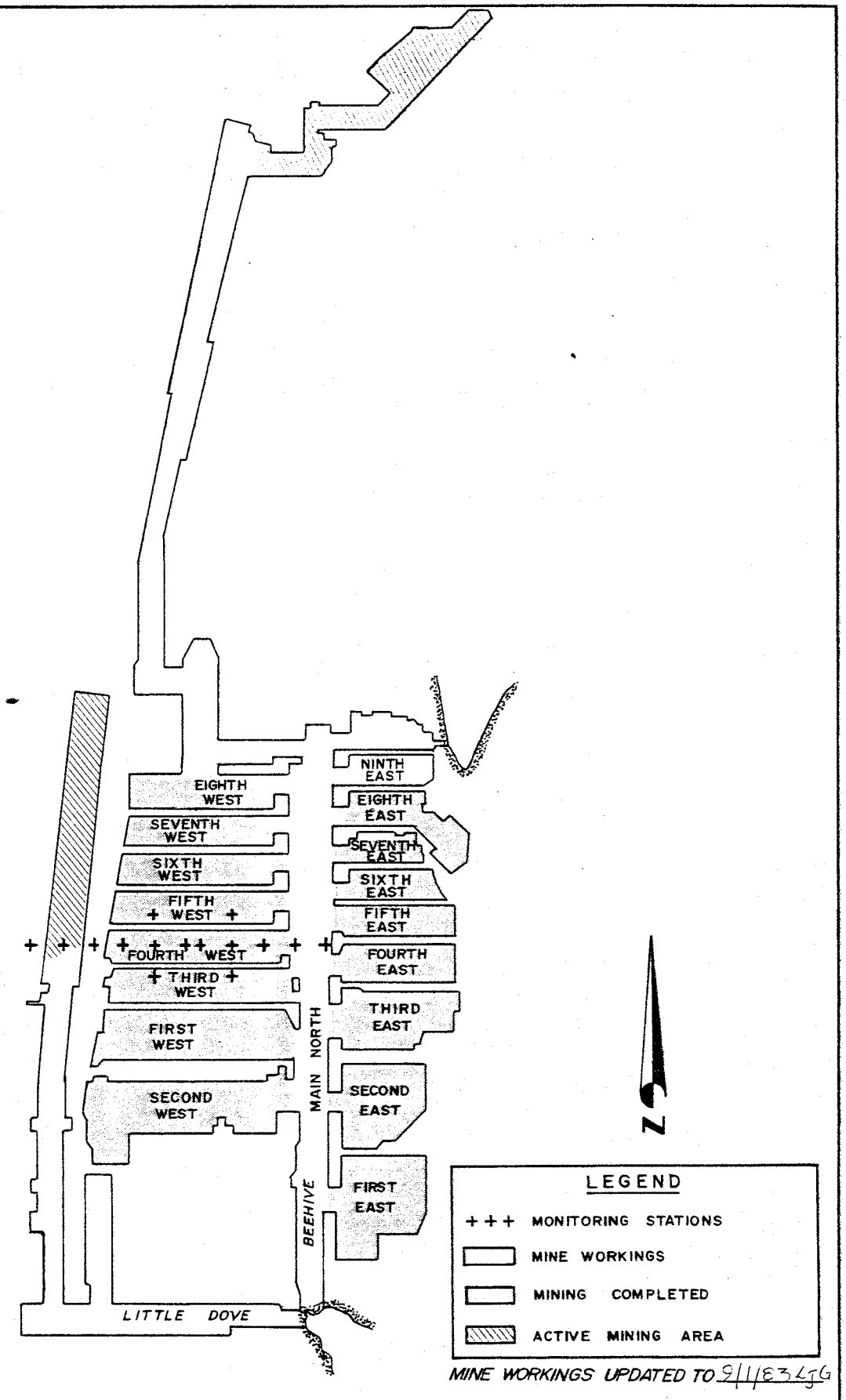
STA.	BK. PG.	NO. Turns	DIFFERENCE ELEVATION D1 (F)	D2 (B)	D3 (F)	D4 (B)	AVERAGE DIFFERENCE	DIST.	ALLOW ERROR	ADJ.	ADJUSTED DIFFERENCE	ELEVATION
			P-3 STABILITY CHECK									
			NOV. 1981									
1-2A												
					VABM		+1963.05					
P-3V									+ 1995.17			
					LEVELS		+ 32.12					
P-3												
			JULY 1982									
1-2A												
					VABM		+1963.20					
P-3V									+ 1995.28			
					LEVELS		+32.08					
P-3												
			AUGUST 1982									
1-2A												
					VABM		+1963.19					
P-3V									+ 1995.32			
					LEVELS		+32.13					
P-3												
			OCTOBER 1982									
1-2A												
					VABM		+1963.47					
P-3V									+1995.47			
					LEVELS		+ 32.00					
P-3												



BEEHIVE & LITTLE DOVE COAL MINES

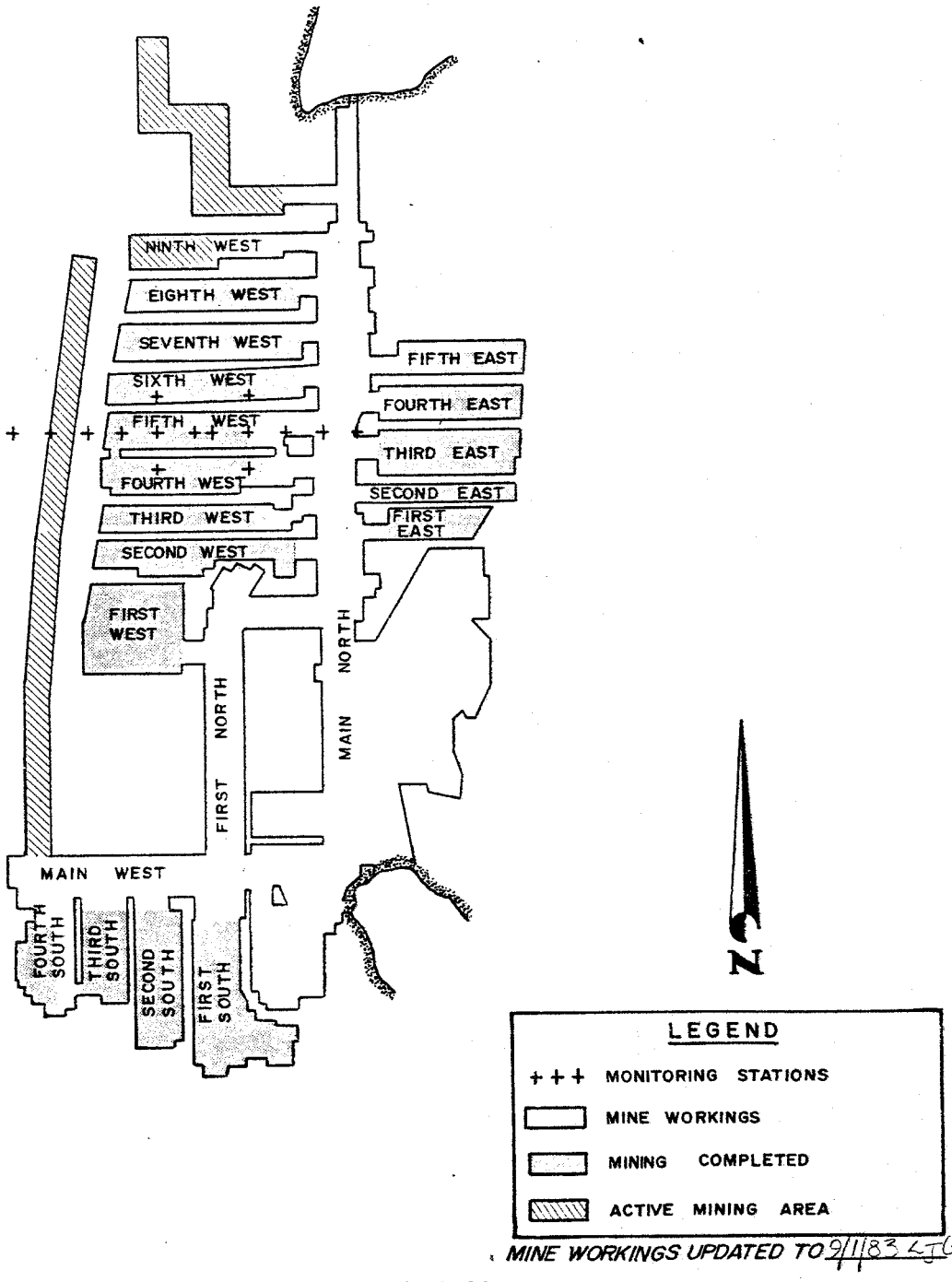
SCALE : 400'

MINE WORKINGS UPDATED TO 9/4 [illegible]



BEEHIVE & LITTLE DOVE COAL MINES

SCALE: 1" = 2000



MINE WORKINGS UPDATED TO 9/1/83 LJG

DESERET COAL MINE

SCALE: 1" = 2000'

Project East Mountain Subsidence Mapping Control
Job # 3036
Date 18 February 1981
Sheet 5 of

Utah Central Zone

es 4 Ang Error 4.0

-0.1609 E 0.2817
ite 0.32442413 N Az119-43-34.6
eter 8688.2500 1 ft in 26781

oint	Iden.	So. Azim.	Adj. S.L. Length	Sea Level North	East	C.A.F. = 1.0004350 North	East
	MT-7	205-33-59.7	0.00				
2	MT-6			366492.69	2110199.82	366652.11	2111117.76
		26-22-25.9	3773.35				
3	BS-1A			363112.09	2108523.60	363270.04	2109440.81
		270- 0- 5.2	4595.61				
4	BS-20			363111.97	2113119.21	363269.93	2114038.42
		303-32-27.9	319.12				
5	Stump			362935.65	2113385.19	363093.53	2114304.51
		284-32-39.4	0.00				
	P-3						

Project East Mountain Subsidence Study (Beehive)
Job # 8036
Date 11 March 1981
Sheet 50

Utah Central Zone

C.A.F. = 1.0004350

Iden.	So. Azim.	Length	North	East
BS-14 1 South			363169.87	2112839.94
BS-14 1 North			363369.82	2112839.94
BS-14 2 North			363469.85	2112839.95
BS-14 3 North			363569.24	2112839.95
BS-14 4 North			363669.43	2112839.96
BS-14 2 South			363069.91	2112839.94
BS-14 3 South			362969.38	2112839.93
BS-14 4 South			362869.09	2112839.93
BS-9 1 South			363169.94	2111840.07
BS-9 2 South			363069.88	2111840.06
BS-9 1 North			363369.68	2111840.07
BS-9 2 North			363470.10	2111840.08
BS-9 3 North			363570.16	2111840.08
BS-9 4 North			363670.63	2111840.09
BS-9 3 South			362970.01	2111840.06
BS-9 4 South			362870.50	2111840.05

Project East Mountain Subsidence Study (Beehive)
Job 8036
Date 11 March 1981
Sheet 49

Utah Central Zone

C.A.F. = 1.0004350

Point	Iden.	So. Azim.	Length	North	East
	DS-1A				
		270- 0- 5.2	0.00		
	DS-1			363270.02	2110239.96
	DS-2			363270.01	2110439.81
	DS-3			363270.01	2110639.83
	DS-4			363270.00	2110840.11
	DS-5			363270.00	2111040.01
	DS-6			363269.99	2111239.86
	DS-7			363269.99	2111439.74
	DS-8			363269.98	2111639.63
	DS-9			363269.98	2111840.07
	DS-10			363269.97	2112039.67
	DS-11			363269.97	2112239.73
	DS-12			363269.96	2112439.72
	DS-13			363269.96	2112639.93
	DS-14			363269.95	2112839.94
	DS-15			363269.95	2113039.83
	DS-16			363269.94	2113239.50
	DS-17			363269.94	2113439.03
	DS-18			363269.93	2113638.86
	DS-19			363269.93	2113838.62
	XXXXX			XXXXXXXXXX	XXXXXXXXXX
	DS-21			363270.06	2114238.67

DS-20 listed on printout sheet 5

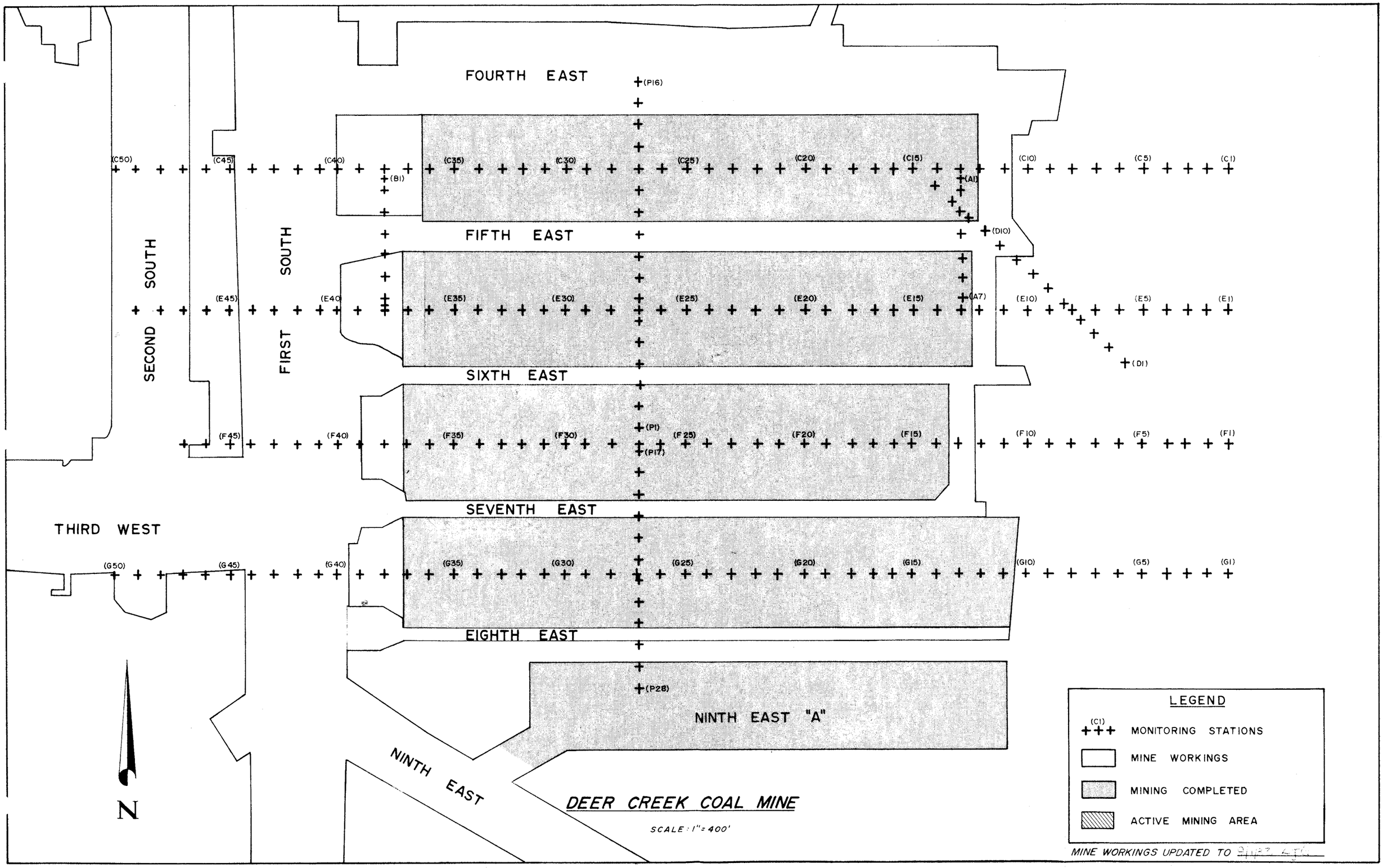
Project East Mountain Subsidence Mapping Contro.
Job # 8046
Date 18 February 1981
Sheet 1

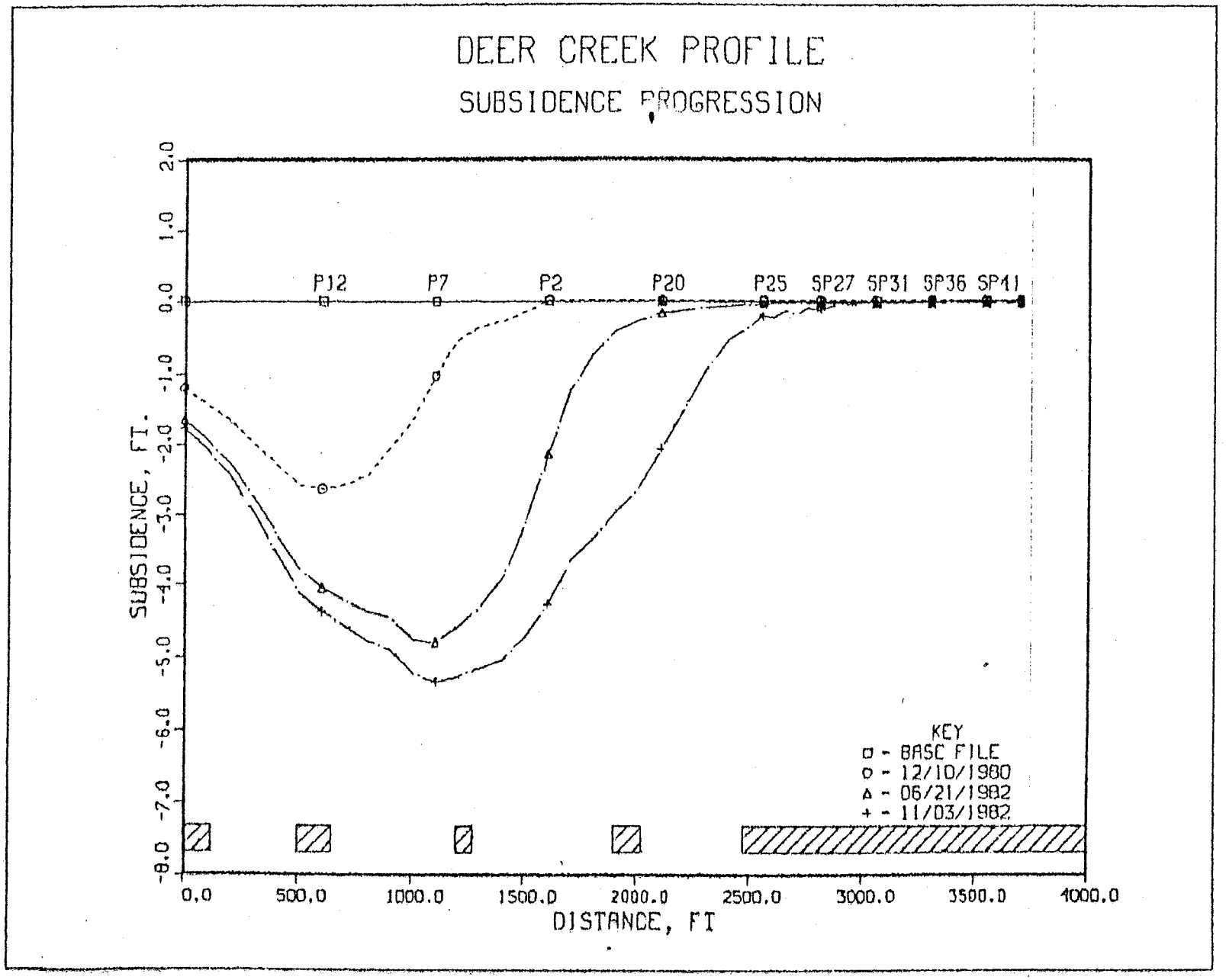
Utah Central Zone

es 4 Ang Error -8.4

-0.0316 E -0.1706
ute 0.17346686 N Az100-29-15.2
eter 23041.9810 1 ft in 127067

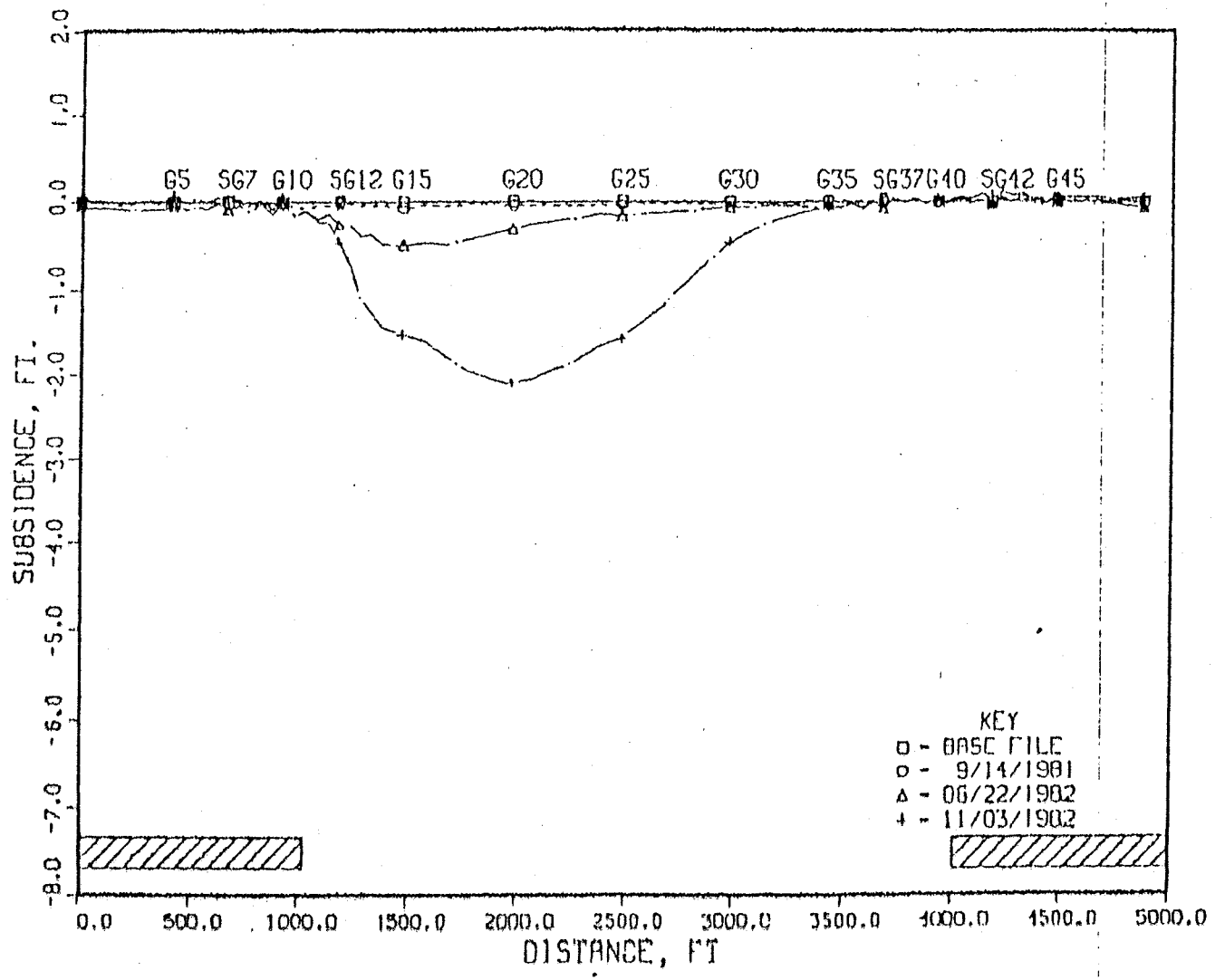
oint	Iden.	So. Azim,	Adj. S.L. Length	Sea Level North	East	C.A.F. = 1.0004350 North	East
	MT-3	32-38-45.2	0.00				
2	MT-2			365345.74	2108279.78	365504.67	2109196.88
		295-16-13.6	5645.69				
3	Stump			362935.65	2113385.19	363093.52	2114304.51
		284-32-39.4	312.10				
4	P-3			362857.27	2113687.29	363015.11	2114606.75
		72-19- 1.0	16084.10				
5	P-2			357971.70	2098363.14	358127.42	2099275.93
		265-33-46.3	0.00				
	MT-6						


FOURTH EAST
FIFTH EAST
SIXTH EAST
SEVENTH EAST
EIGHTH EAST
NINTH EAST "A"
NINTH EAST
THIRD WEST
SECOND SOUTH
FIRST SOUTH
(P16)
(P1)
(P17)
(P28)
(B1)
(A1)
(D10)
(A7)
(D1)
(C50) (C45) (C40) (C35) (C30) (C25) (C20) (C15) (C10) (C5) (C1)
(E45) (E40) (E35) (E30) (E25) (E20) (E15) (E10) (E5) (E1)
(F45) (F40) (F35) (F30) (F25) (F20) (F15) (F10) (F5) (F1)
(G50) (G45) (G40) (G35) (G30) (G25) (G20) (G15) (G10) (G5) (G1)
N
DEER CREEK COAL MINE
SCALE: 1" = 400'
LEGEND
(C1) MONITORING STATIONS
MINE WORKINGS
MINING COMPLETED
ACTIVE MINING AREA
MINE WORKINGS UPDATED TO


DEER CREEK PROFILE
SUBSIDENCE PROGRESSION
P12
P7
P2
P20
P25
SP27
SP31
SP36
SP41
SUBSIDENCE, FT.
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-6.0
-7.0
-8.0
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
3500.0
4000.0
DISTANCE, FT
KEY
□ - BASE FILE
○ - 12/10/1980
△ - 06/21/1982
+ - 11/03/1982

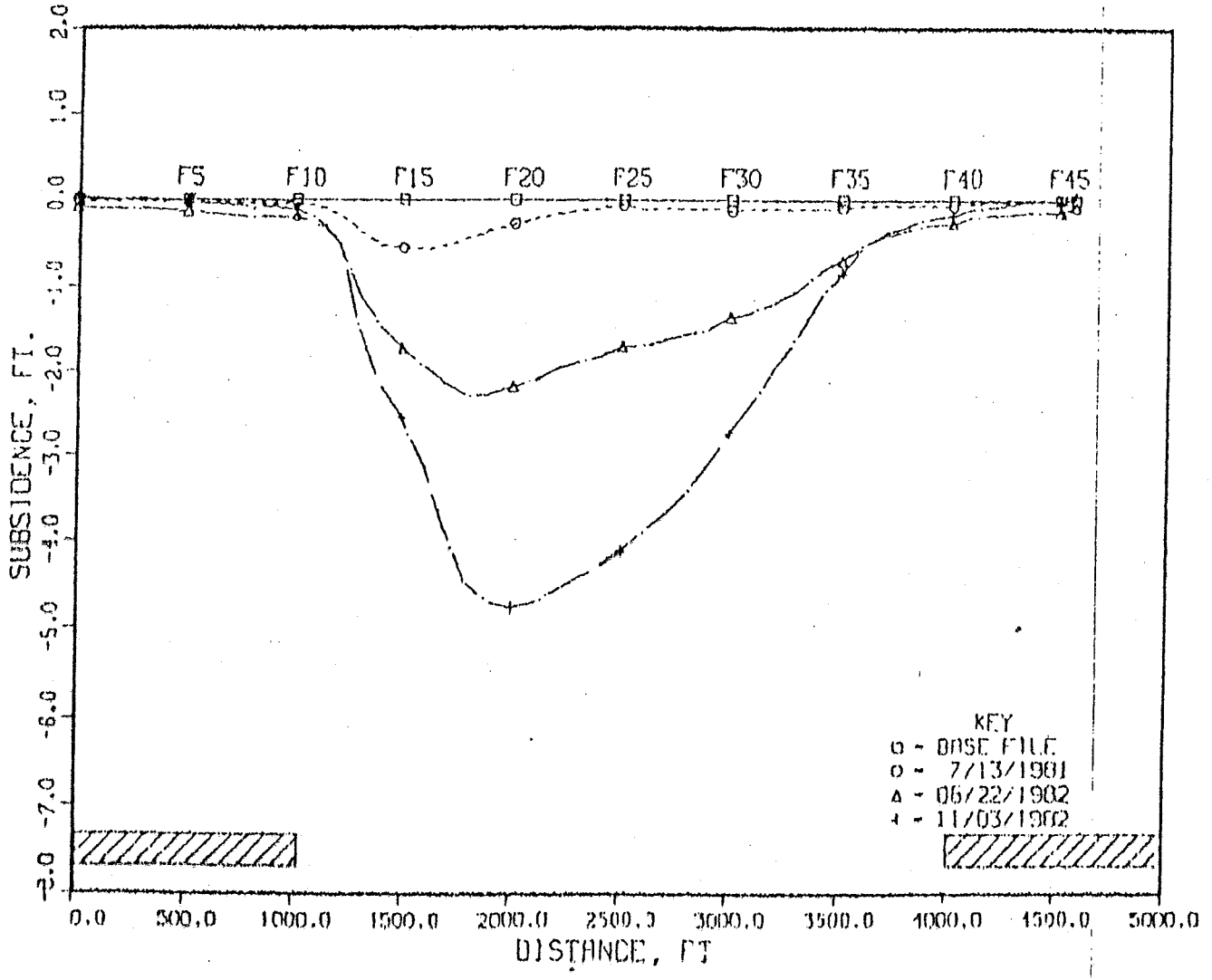
DEER CREEK PROFILE

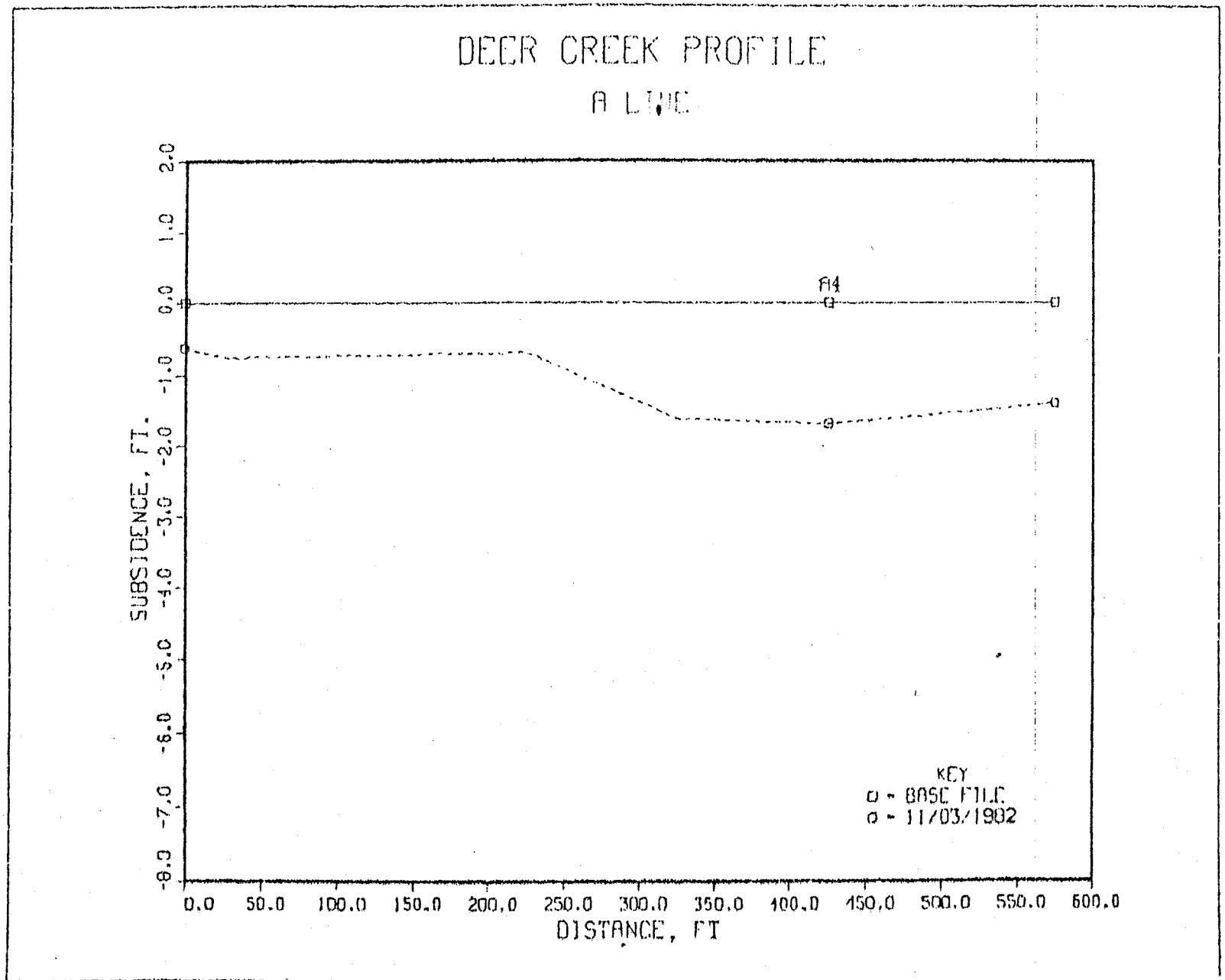
SUBSIDENCE PROGRESSION PANEL 8E

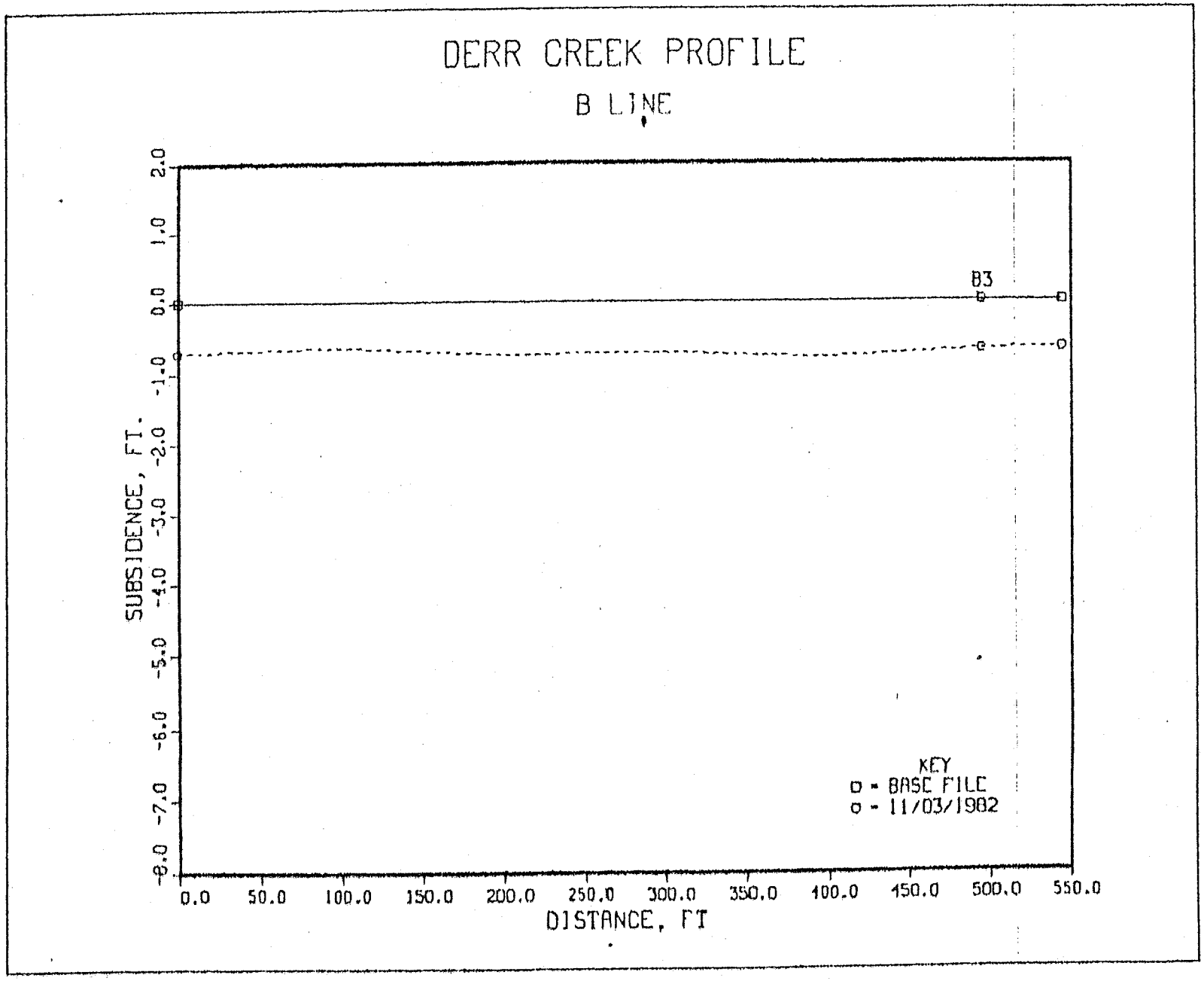


DEER CREEK PROFILE

SUBSIDENCE PROGRESSION PANEL 7E

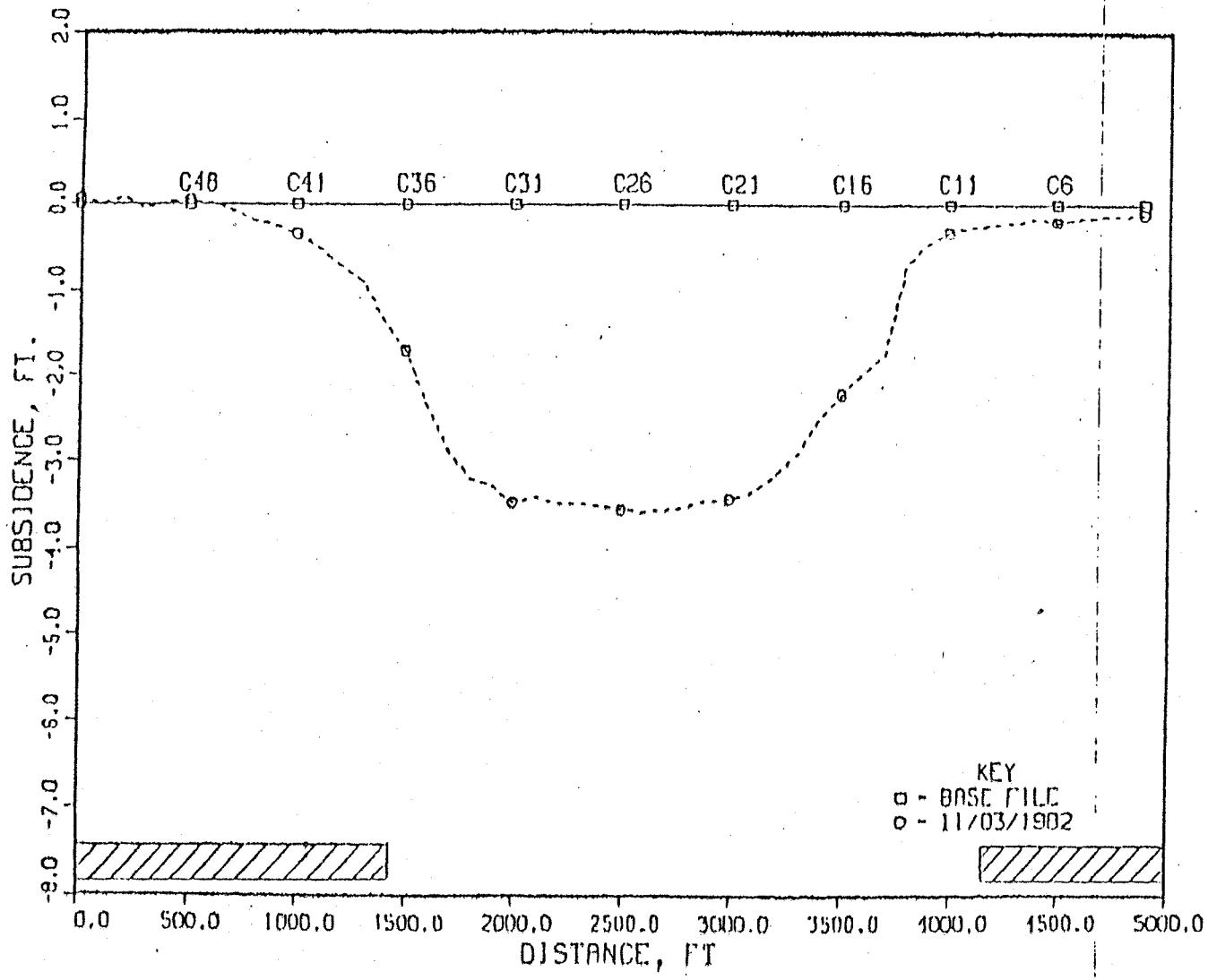



DEER CREEK PROFILE
A LINE
A4
SUBSIDENCE, FT.
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-6.0
-7.0
-8.0
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
550.0
600.0
DISTANCE, FT
KEY
- BASE FILE
- 11/03/1982


DERR CREEK PROFILE
B LINE
SUBSIDENCE, FT.
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-6.0
-7.0
-8.0
B3
KEY
□ - BASE FILE
o - 11/03/1982
0.0
50.0
100.0
150.0
200.0
250.0
300.0
350.0
400.0
450.0
500.0
550.0
DISTANCE, FT

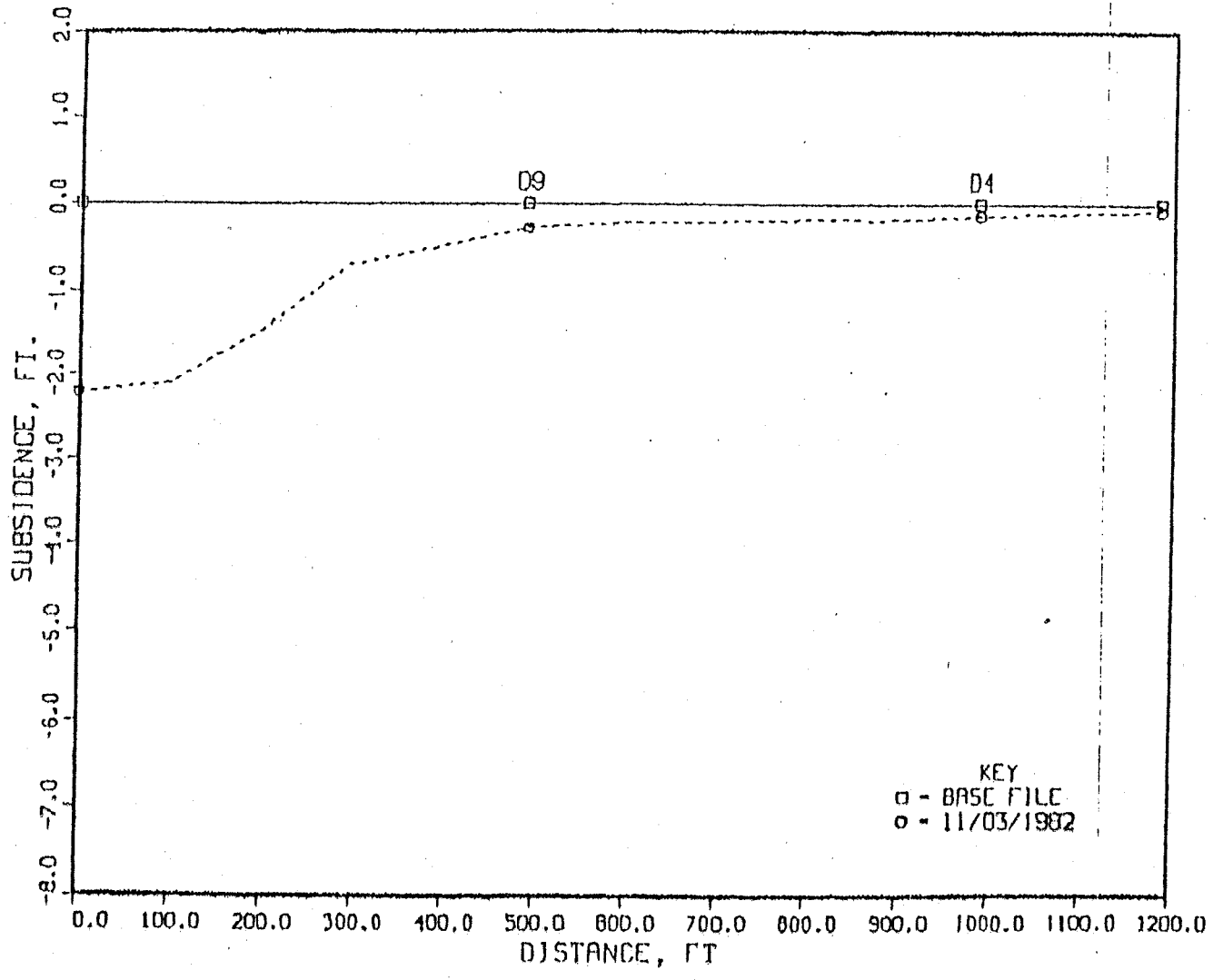
DEER CREEK PROFILE

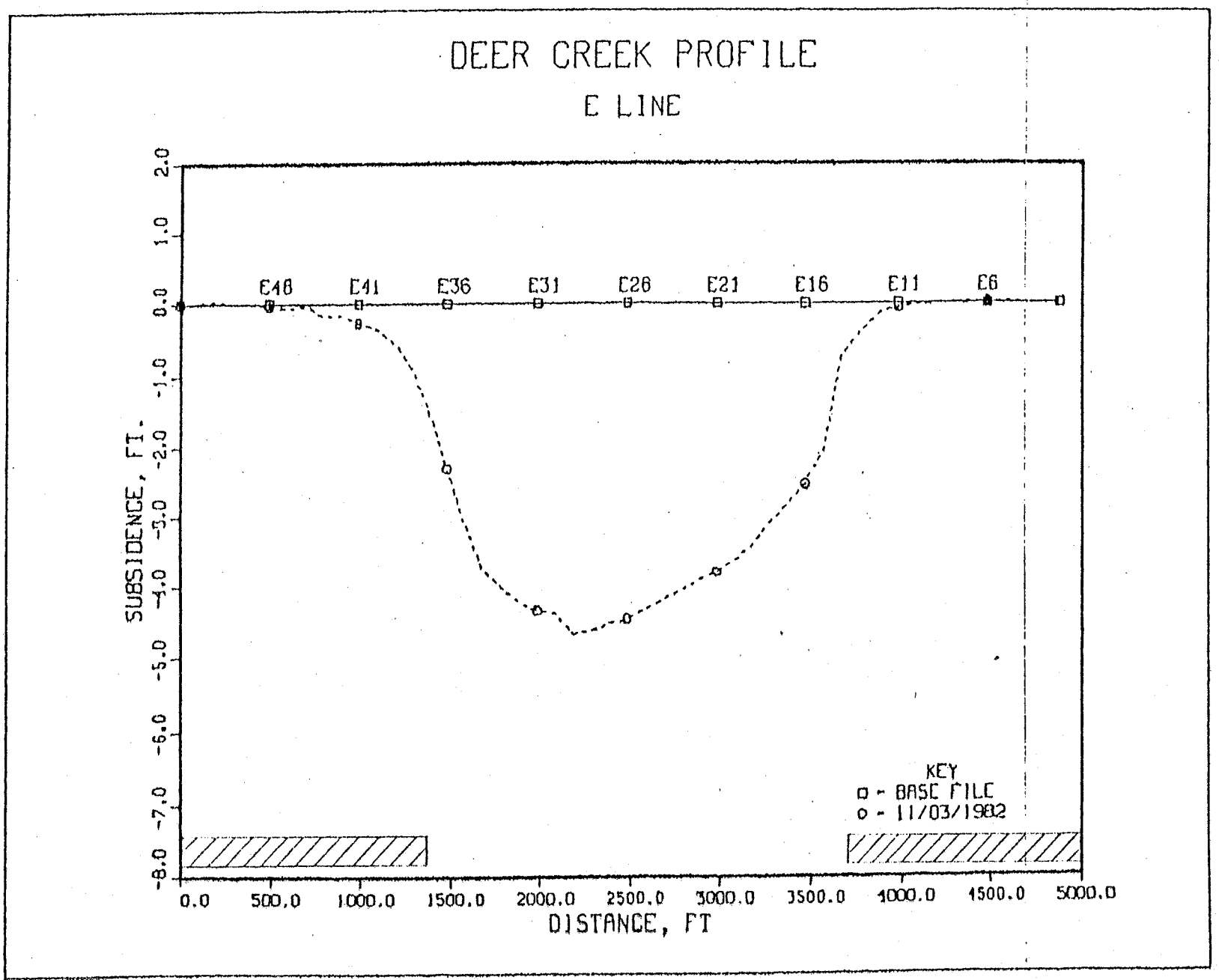
C LINE

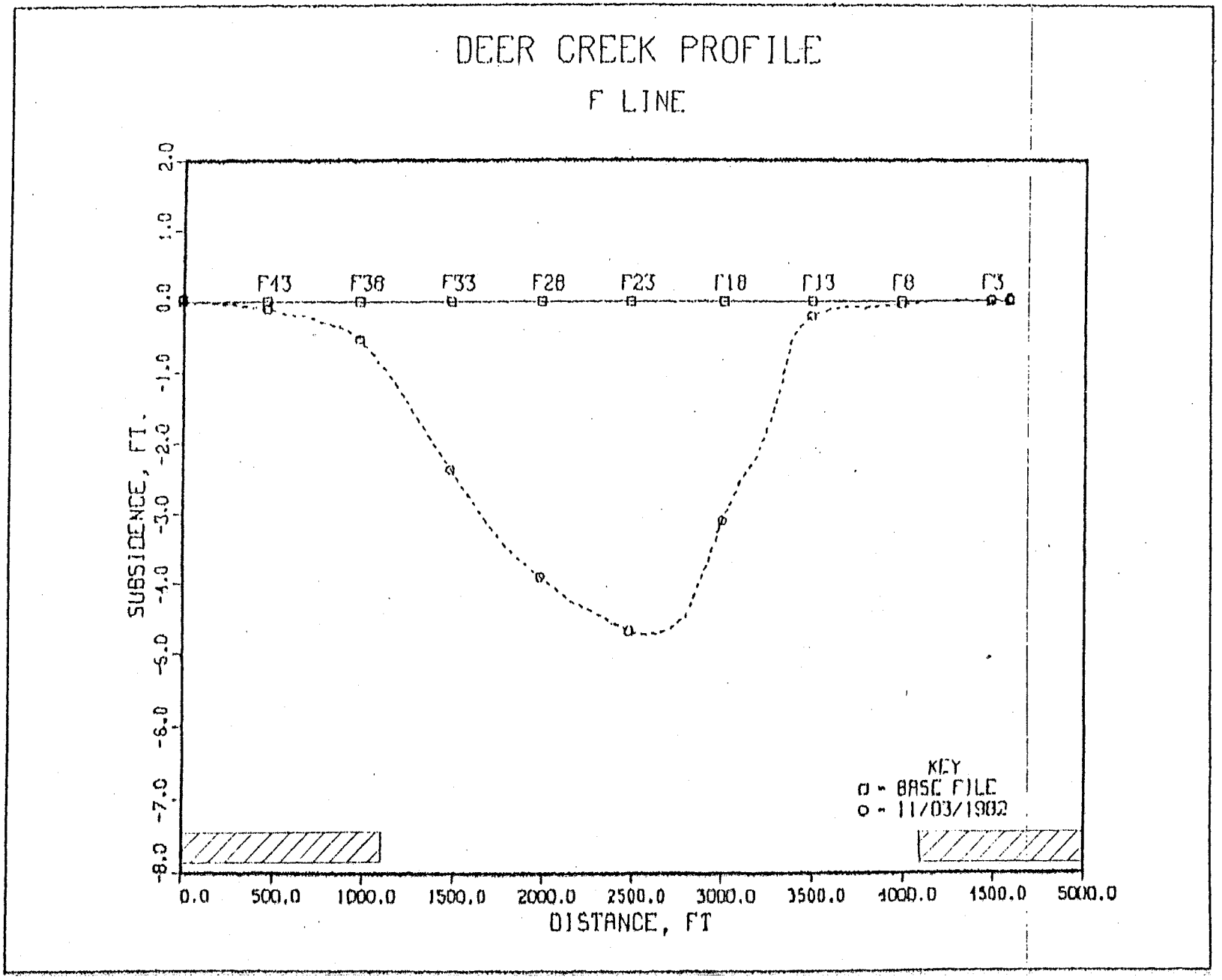


DEER CREEK PROFILE

D LINE

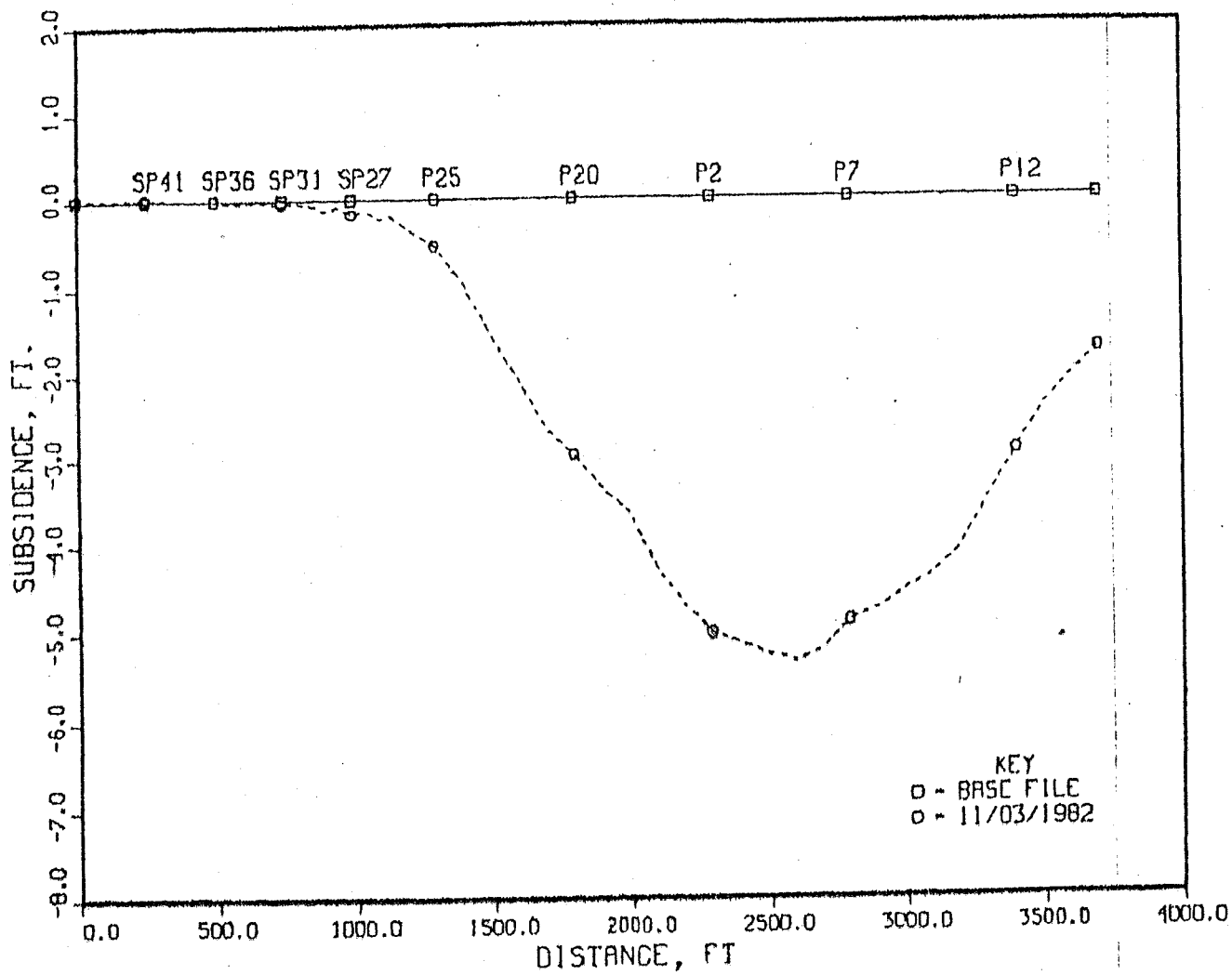



DEER CREEK PROFILE
E LINE
E46
E41
E36
E31
E26
E21
E16
E11
E6
SUBSIDENCE, FT.
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-6.0
-7.0
-8.0
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
3500.0
4000.0
4500.0
5000.0
DISTANCE, FT
KEY
□ - BASE FILE
o - 11/03/1982


DEER CREEK PROFILE
F LINE
F43
F38
F33
F28
F23
F18
F13
F8
F3
SUBSIDENCE, FT.
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-6.0
-7.0
-8.0
0.0
500.0
1000.0
1500.0
2000.0
2500.0
3000.0
3500.0
4000.0
4500.0
5000.0
DISTANCE, FT
KEY
□ - BASE FILE
○ - 11/03/1982

DEER CREEK PROFILE

P LINE



DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/17/1978 USBM : T	7/10/1979 USBM : T	9/19/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J + T : L
DC1	8994.68	0.00	0.00	0.00	0.00	0.00	0.00	. . . .
DC2	8955.53	0.00	0.00	0.00	0.00	0.00	0.00	. . . .
BM1	9025.91	0.00	-0.00	-0.00	-0.00	-0.00	0.00	0.00
BM2	9159.51	0.00	0.00	0.00	0.35	. . . .	. . . .	0.38
BM3	9188.67	0.00	0.00	0.00	0.47	. . . .	. . . .	0.70
BM4	9104.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BM5	9096.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BM6	8943.36	. . . .	. . . .	. . . .	. . . .	. . . .	-0.09	. . . .
BM7	9106.90	. . . .	. . . .	. . . .	. . . .	. . . .	0.00	. . . .
BM8	8980.15	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
BM9	8961.81	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
BM10	9067.32	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP0	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP1	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP2	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP4	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP5	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP6	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP7	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP8	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP9	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
C1	8998.65	-0.04	0.03	0.03	0.14	. . . .	. . . .	0.09
C2	8988.15	-0.04	0.03	0.05	0.14	. . . .	. . . .	0.12
C3	8978.20	-0.05	0.04	0.05	0.18	. . . .	. . . .	0.12
C4	8971.85	-0.04	0.03	0.07	0.13	. . . .	. . . .	0.10
C5	8970.99	-0.07	0.05	0.05	0.16	. . . .	. . . .	0.15
C6	8976.02	-0.05	0.04	0.05	0.17	. . . .	. . . .	0.12
C7	8984.61	-0.07	0.06	0.06	0.20	. . . .	. . . .	0.16
C8	8990.13	-0.07	0.06	0.05	0.20	. . . .	. . . .	0.16
C9	8993.46	-0.09	0.08	0.07	0.23	. . . .	. . . .	0.20
C10	8997.67	-0.04	0.04	0.12	0.23	. . . .	. . . .	0.22
C11	9001.98	-0.07	0.05	0.07	0.29	. . . .	. . . .	0.28
C12	9008.04	-0.06	0.05	0.10	0.37	. . . .	. . . .	0.38
C13	9017.60	-0.13	0.11	0.19	0.95	. . . .	. . . .	0.92
C14	9030.62	-0.09	0.08	0.18	0.98	. . . .	. . . .	1.05
C15	9054.08	-0.09	0.08	0.18	1.11	. . . .	. . . .	1.16
C16	9076.04	-0.04	0.02	0.15	1.08	. . . .	. . . .	1.29
C17	9096.46	-0.03	0.03	0.22	1.43	. . . .	. . . .	1.55
C18	9120.88	-0.03	0.03	0.19	1.51	. . . .	. . . .	1.76

DEEP CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 10/17/1978 USBM : T	7/10/1979 USBM : T	9/18/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J & T : L
C19	9137.26	0.00	-0.01	0.25	1.60	....	....	1.86
C20	9152.74	0.00	-0.00	0.26	1.68	....	....	1.90
C21	9166.18	-0.04	0.03	0.22	1.66	....	....	1.87
C22	9173.53	-0.05	0.03	0.20	1.57	....	....	1.85
C23	9175.25	0.00	0.00	0.23	1.54	....	....	1.81
C24	9170.81	-0.01	0.01	0.20	1.70	....	....	1.73
C25	9170.54	....	....	....	....	....	....	....
C26	9181.64	0.04	-0.04	0.15	1.03	....	....	1.43
C27	9188.24	-0.01	0.01	0.14	1.02	....	....	1.32
C28	9187.66	0.02	-0.03	0.12	0.92	....	....	1.22
C29	9189.62	0.01	-0.01	0.10	0.87	....	....	1.06
C30	9190.13	-0.04	0.02	0.05	0.78	....	....	1.01
C31	9193.08	....	....	-0.00	0.74	....	....	0.82
C32	9188.37	....	....	-0.01	0.69	....	....	0.74
C33	9187.61	....	....	-0.01	1.08	....	....	0.72
C34	9183.94	....	....	-0.01	0.69	....	....	0.36
C35	9179.18	....	....	0.00	0.49	....	....	0.14
C36	9178.90	....	....	-0.00	0.52	....	....	0.20
C37	9178.13	....	....	-0.01	0.40	....	....	0.02
C38	9175.22	....	....	-0.00	0.33	....	....	0.06
C39	9170.81	....	....	-0.01	0.39	....	....	0.01
C40	9162.20	....	....	-0.00	0.27	....	....	-0.06
C41	9148.84	....	....	-0.01	0.26	....	....	-0.07
C42	9135.52	....	....	-0.00	0.15	....	....	-0.10
C43	9125.00	....	....	-0.01	0.11	....	....	-0.20
C44	9117.09	....	....	-0.00	0.02	....	....	-0.23
C45	9105.25	....	....	-0.00	-0.00	....	....	-0.26
C46	9084.48	....	....	-0.01	0.17	....	....	-0.22
C47	9065.21	....	....	-0.00	0.14	....	....	-0.11
C48	9046.81	....	....	-0.00	0.06	....	....	-0.24
C49	9028.02	....	....	-0.01	0.05	....	....	-0.13
C50	9004.20	....	....	-0.00	-0.00	....	....	-0.21
P16	9203.57	-0.03	0.01	0.24	0.94	....	....	1.00
P15	9197.23	-0.04	0.04	0.15	1.01	....	....	1.14
P14	9194.67	-0.02	0.00	0.13	1.05	....	....	1.22
P13	9191.28	-0.01	0.01	0.14	1.06	....	....	1.32
P12	9183.72	0.01	-0.01	0.20	1.08	....	....	1.37
P11	9180.58	0.01	-0.01	0.13	0.95	....	....	1.19
P10	9176.25	0.01	-0.02	0.10	0.81	....	....	1.04
P9	9171.03	0.01	-0.01	0.13	0.72	....	....	0.91

DEER CREEK SUBSIDENCE PROJECT LISTI OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 12/12/1978 USBM : T	7/11/1979 USBM : T	9/18/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J + T : L
P8	9165.59	0.02	-0.04	0.08	0.49	. . . .	. . . .	0.66
P7	9160.70	0.05	-0.04	0.08	0.51	. . . .	. . . .	0.65
P6	9159.07	0.01	-0.03	0.05	0.42	. . . .	. . . .	0.50
P5	9160.44	0.03	-0.05	0.01	0.31	. . . .	. . . .	0.33
P4	9157.80	0.01	-0.02	0.02	0.26	. . . .	. . . .	0.27
P3	9154.42	0.02	-0.02	0.02	0.26	. . . .	. . . .	0.25
P2	9151.12	0.03	-0.05	-0.04	0.22	. . . .	. . . .	0.16
F1	9143.31	-0.10	0.07	-0.09	0.09	. . . .	. . . .	0.01
P17	9129.72	. . . .	. . . .	. . . .	. . . .	. . . .	0.28	-0.08
P18	9114.29	. . . .	. . . .	. . . .	. . . .	. . . .	0.28	. . . .
P19	9100.43	. . . .	. . . .	. . . .	. . . .	. . . .	0.21	. . . .
P20	9089.13	. . . .	. . . .	. . . .	. . . .	. . . .	0.22	. . . .
P21	9074.91	. . . .	. . . .	. . . .	. . . .	. . . .	0.19	. . . .
P22	9061.37	. . . .	. . . .	. . . .	. . . .	. . . .	0.23	. . . .
P23	9048.42	. . . .	. . . .	. . . .	. . . .	. . . .	0.21	. . . .
P24	9042.63	. . . .	. . . .	. . . .	. . . .	. . . .	0.23	. . . .
P25	9038.54	. . . .	. . . .	. . . .	. . . .	. . . .	0.23	. . . .
SP25	9039.18	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
P26	9036.75	. . . .	. . . .	. . . .	. . . .	. . . .	0.20	. . . .
SP26	9036.84	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
P27	9035.61	. . . .	. . . .	. . . .	. . . .	. . . .	0.33	. . . .
SP27	9033.56	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
P28	9027.03	. . . .	. . . .	. . . .	. . . .	. . . .	0.27	. . . .
SP28	9020.71	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP29	9014.04	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP30	9007.47	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP31	9000.30	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP32	8991.51	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP33	8979.06	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP34	8966.51	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP35	8954.85	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP36	8945.07	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP37	8937.55	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP38	8932.96	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP39	8929.45	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP40	8926.23	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP41	8923.56	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP42	8922.57	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP43	8922.02	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
SP44	8921.65	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/17/1978 USBM : T	7/1/1979 USBM : T	9/18/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J + T : L
SP45	8921.35	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
D1	8960.18	0.03	-0.05	-0.00	0.03	. . . .	. . . .	0.08
D2	8953.04	0.01	-0.01	0.03	0.10	. . . .	. . . .	0.13
D3	8949.27	-0.01	-0.00	0.04	0.12	. . . .	. . . .	0.14
D4	8949.94	0.01	-0.01	0.00	0.08	. . . .	. . . .	0.15
D5	8957.29	-0.01	0.01	0.04	0.08	. . . .	. . . .	0.15
D6	8967.44	-0.03	0.01	0.04	0.15	. . . .	. . . .	0.18
D7	8975.26	0.06	-0.07	-0.03	0.14	. . . .	. . . .	0.13
D8	8983.90	0.03	-0.02	0.01	0.18	. . . .	. . . .	0.15
D9	8990.92	-0.01	0.01	0.05	0.44	. . . .	. . . .	0.28
D10	8999.20	0.00	0.05	0.12	0.41	. . . .	. . . .	0.43
D11	9007.03	-0.04	0.03	0.06	0.66	. . . .	. . . .	0.70
D12	9016.69	-0.05	0.05	0.09	0.97	. . . .	. . . .	1.03
D13	9029.19	-0.05	0.05	0.14	1.10	. . . .	. . . .	1.16
A1	9015.87	. . . .	. . . .	0.00	0.50	. . . .	. . . .	0.52
A2	9014.25	. . . .	. . . .	-0.01	0.51	. . . .	. . . .	0.56
A3	9009.87	. . . .	. . . .	-0.01	0.55	. . . .	. . . .	0.61
A4	9004.22	. . . .	. . . .	-0.01	0.49	. . . .	. . . .	0.57
A5	9001.00	. . . .	. . . .	-0.01	0.25	. . . .	. . . .	0.23
A6	8998.75	. . . .	. . . .	-0.01	0.24	. . . .	. . . .	0.18
A7	8993.71	. . . .	. . . .	0.00	0.25	. . . .	. . . .	. . . .
A8	8991.47	. . . .	. . . .	-0.01	0.03	. . . .	. . . .	-0.01
B1	9173.78	. . . .	. . . .	-0.01	0.32	. . . .	. . . .	-0.06
B2	9170.78	. . . .	. . . .	-0.01	0.23	. . . .	. . . .	-0.08
B3	9159.29	. . . .	. . . .	-0.01	0.36	. . . .	. . . .	-0.04
B4	9141.32	. . . .	. . . .	-0.01	0.11	. . . .	. . . .	-0.15
B5	9124.50	. . . .	. . . .	-0.00	0.19	. . . .	. . . .	-0.10
B6	9111.43	. . . .	. . . .	-0.01	0.06	. . . .	. . . .	-0.22
B7	9095.66	. . . .	. . . .	-0.01	0.19	. . . .	. . . .	-0.12
E1	9008.16	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E2	8997.85	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E3	8987.42	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E4	8977.75	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E5	8968.10	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E6	8959.71	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	0.00
E7	8954.73	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E8	8957.98	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.01
E9	8959.92	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E10	8960.97	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00
E11	8967.90	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	-0.00

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 10/17/1978 USBM : T	7/10/1979 USBM : T	9/18/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J + T : L
E12	8983.37	....	....	....	....	....	....	-0.00
E13	8993.64	....	....	....	....	....	....	....
E14	9007.06	....	....	....	....	....	....	-0.00
E15	9029.96	....	....	....	....	....	....	-0.01
E16	9055.05	....	....	....	....	....	....	-0.01
E17	9076.10	....	....	....	....	....	....	-0.00
E18	9094.27	....	....	....	....	....	....	-0.00
E19	9104.22	....	....	....	....	....	....	-0.01
E20	9105.05	....	....	....	....	....	....	-0.00
E21	9118.34	....	....	....	....	....	....	-0.00
E22	9129.72	....	....	....	....	....	....	-0.00
E23	9140.18	....	....	....	....	....	....	-0.00
E24	9147.95	....	....	....	....	....	....	-0.01
E25	9154.02	....	....	....	....	....	....	-0.00
E26	9157.11	....	....	....	....	....	....	-0.00
E27	9159.69	....	....	....	....	....	....	0.01
E28	9161.39	....	....	....	....	....	....	0.02
E29	9159.70	....	....	....	....	....	....	-0.23
E30	9155.41	....	....	....	....	....	....	-0.18
E31	9148.90	....	....	....	....	....	....	-0.25
E32	9141.48	....	....	....	....	....	....	-0.27
E33	9134.71	....	....	....	....	....	....	-0.22
E34	9125.08	....	....	....	....	....	....	-0.25
E35	9116.50	....	....	....	....	....	....	-0.22
E36	9112.04	....	....	....	....	....	....	-0.19
E37	9105.12	....	....	....	....	....	....	-0.23
E38	9090.76	....	....	....	....	....	....	-0.24
E39	9075.68	....	....	....	....	....	....	-0.33
E40	9065.14	....	....	....	....	....	....	-0.27
E41	9051.25	....	....	....	....	....	....	-0.28
E42	9040.70	....	....	....	....	....	....	-0.16
E43	9034.43	....	....	....	....	....	....	-0.27
E44	9031.28	....	....	....	....	....	....	-0.20
E45	9025.88	....	....	....	....	....	....	-0.22
E46	9006.92	....	....	....	....	....	....	-0.20
E47	8988.15	....	....	....	....	....	....	-0.20
E48	8971.80	....	....	....	....	....	....	-0.17
E49	8951.26	....	....	....	....	....	....	-0.11
E50	8942.68	....	....	....	....	....	....	-0.07
F1	9023.07	....	....	....	....	0.09	....	-0.01

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 10/17/1978 USBM : T	7/10/1979 USBM : T	9/18/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J + T : L
F2	9008.49	. . . .	. . . .	. . . .	. . . .	0.10	. . . .	-0.00
F3	8995.51	. . . .	. . . .	. . . .	. . . .	0.12	. . . .	-0.01
F4	8982.79	. . . .	. . . .	. . . .	. . . .	0.09	. . . .	-0.01
F5	8970.51	. . . .	. . . .	. . . .	. . . .	0.08	. . . .	-0.01
F6	8956.47	. . . .	. . . .	. . . .	. . . .	0.09	. . . .	-0.00
F7	8945.05	. . . .	. . . .	. . . .	. . . .	0.10	. . . .	-0.01
F8	8931.96	. . . .	. . . .	. . . .	. . . .	0.14	. . . .	-0.00
F9	8924.71	. . . .	. . . .	. . . .	. . . .	0.11	. . . .	-0.00
F10	8926.09	. . . .	. . . .	. . . .	. . . .	0.05	. . . .	-0.00
F11	8941.36	. . . .	. . . .	. . . .	. . . .	0.09	. . . .	-0.00
F12	8955.26	. . . .	. . . .	. . . .	. . . .	0.05	. . . .	-0.00
F13	8966.19	. . . .	. . . .	. . . .	. . . .	0.03	. . . .	-0.00
F14	8978.04	. . . .	. . . .	. . . .	. . . .	0.12	. . . .	-0.00
F15	9000.47	. . . .	. . . .	. . . .	. . . .	0.09	. . . .	-0.00
F16	9026.33	. . . .	. . . .	. . . .	. . . .	0.13	. . . .	-0.00
F17	9061.13	. . . .	. . . .	. . . .	. . . .	0.15	. . . .	-0.00
F18	9081.04	. . . .	. . . .	. . . .	. . . .	0.19	. . . .	-0.00
F19	9093.32	. . . .	. . . .	. . . .	. . . .	0.17	. . . .	-0.00
F20	9099.94	. . . .	. . . .	. . . .	. . . .	0.22	. . . .	-0.01
F21	9107.45	. . . .	. . . .	. . . .	. . . .	0.19	. . . .	-0.01
F22	9114.79	. . . .	. . . .	. . . .	. . . .	0.18	. . . .	-0.00
F23	9120.92	. . . .	. . . .	. . . .	. . . .	0.21	. . . .	-0.01
F24	9124.11	. . . .	. . . .	. . . .	. . . .	0.33	. . . .	-0.01
F25	9125.36	. . . .	. . . .	. . . .	. . . .	0.56	. . . .	-0.00
F26	9128.82	. . . .	. . . .	. . . .	. . . .	0.39	. . . .	-0.00
F27	9137.33	. . . .	. . . .	. . . .	. . . .	0.42	. . . .	-0.00
F28	9143.67	. . . .	. . . .	. . . .	. . . .	0.40	. . . .	-0.01
F29	9142.21	. . . .	. . . .	. . . .	. . . .	0.38	. . . .	-0.00
F30	9133.76	. . . .	. . . .	. . . .	. . . .	0.39	. . . .	0.00
F31	9121.28	. . . .	. . . .	. . . .	. . . .	0.36	. . . .	-0.00
F32	9108.36	. . . .	. . . .	. . . .	. . . .	0.36	. . . .	-0.01
F33	9093.02	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .	-0.01
F34	9083.37	. . . .	. . . .	. . . .	. . . .	0.26	. . . .	-0.00
F35	9075.64	. . . .	. . . .	. . . .	. . . .	0.70	. . . .	-0.00
F36	9070.91	. . . .	. . . .	. . . .	. . . .	0.26	. . . .	-0.00
F37	9057.40	. . . .	. . . .	. . . .	. . . .	-0.01	. . . .	-0.01
F38	9039.82	. . . .	. . . .	. . . .	. . . .	0.27	. . . .	-0.00
F39	9027.80	. . . .	. . . .	. . . .	. . . .	0.26	. . . .	-0.01
F40	9008.94	. . . .	. . . .	. . . .	. . . .	0.18	. . . .	-0.01
F41	8989.27	. . . .	. . . .	. . . .	. . . .	0.19	. . . .	-0.00

DEER CREEK SUBSIDENCE PROJECT LISTIN OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 10/17/1978 USBM : T	7/10/1979 USBM : T	9/18/1979 USBM : T	7/09/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	8/26/1980 J + T : L
F42	8973.19	. . . .	. . . .	. . . .	. . . .	0.11	. . . .	-0.00
F43	8952.18	. . . .	. . . .	. . . .	. . . .	0.14	. . . .	-0.00
F44	8931.29	. . . .	. . . .	. . . .	. . . .	0.15	. . . .	-0.00
F45	8911.66	. . . .	. . . .	. . . .	. . . .	0.12	. . . .	-0.00
F46	8893.75	. . . .	. . . .	. . . .	. . . .	0.08	. . . .	-0.00
F47	8889.64	. . . .	. . . .	. . . .	. . . .	0.15	. . . .	-0.00
G1	9017.27	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .
G2	9010.00	. . . .	. . . .	. . . .	. . . .	. . . .	-0.04	. . . .
G3	8996.96	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .
G4	8986.77	. . . .	. . . .	. . . .	. . . .	. . . .	-0.11	. . . .
G5	8979.31	. . . .	. . . .	. . . .	. . . .	. . . .	-0.06	. . . .
SG5	8974.82	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G6	8968.83	. . . .	. . . .	. . . .	. . . .	. . . .	-0.07	. . . .
SG6	8964.78	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G7	8957.86	. . . .	. . . .	. . . .	. . . .	. . . .	-0.08	. . . .
SG7	8951.87	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G8	8940.86	. . . .	. . . .	. . . .	. . . .	. . . .	-0.18	. . . .
SG8	8931.87	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G9	8920.29	. . . .	. . . .	. . . .	. . . .	. . . .	-0.18	. . . .
SG9	8911.38	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G10	8904.15	. . . .	. . . .	. . . .	. . . .	. . . .	-0.18	. . . .
SG10	8900.79	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G11	8897.67	. . . .	. . . .	. . . .	. . . .	. . . .	-0.13	. . . .
SG11	8906.63	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G12	8916.99	. . . .	. . . .	. . . .	. . . .	. . . .	-0.11	. . . .
SG12	8929.77	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G13	8939.73	. . . .	. . . .	. . . .	. . . .	. . . .	-0.10	. . . .
SG13	8949.34	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G14	8956.00	. . . .	. . . .	. . . .	. . . .	. . . .	0.03	. . . .
SG14	8970.00	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G15	8986.45	. . . .	. . . .	. . . .	. . . .	. . . .	-0.08	. . . .
G16	9020.60	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .
G17	9049.24	. . . .	. . . .	. . . .	. . . .	. . . .	-0.12	. . . .
G18	9068.76	. . . .	. . . .	. . . .	. . . .	. . . .	-0.02	. . . .
G19	9080.04	. . . .	. . . .	. . . .	. . . .	. . . .	-0.03	. . . .
G20	9096.97	. . . .	. . . .	. . . .	. . . .	. . . .	-0.19	. . . .
G21	9090.12	. . . .	. . . .	. . . .	. . . .	. . . .	0.05	. . . .
G22	9085.88	. . . .	. . . .	. . . .	. . . .	. . . .	0.31	. . . .
G23	9082.52	. . . .	. . . .	. . . .	. . . .	. . . .	0.29	. . . .
G24	9079.10	. . . .	. . . .	. . . .	. . . .	. . . .	0.32	. . . .

DELR CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/17/1978 USBM : T	7/16/1979 USBM : T	9/18/1979 USBM : T	7/05/1980 USBM : T	8/05/1980 USBM : T	9/03/1980 USBM : T	6/26/1980 J + T : L
G25	9072.97	. . . .	. . . .	. . . .	. . . .	. . . .	0.27	. . . .
G26	9066.68	. . . .	. . . .	. . . .	. . . .	. . . .	0.24	. . . .
G27	9058.06	. . . .	. . . .	. . . .	. . . .	. . . .	0.23	. . . .
G28	9050.08	. . . .	. . . .	. . . .	. . . .	. . . .	0.18	. . . .
G29	9042.11	. . . .	. . . .	. . . .	. . . .	. . . .	0.14	. . . .
G30	9033.43	. . . .	. . . .	. . . .	. . . .	. . . .	0.11	. . . .
G31	9025.21	. . . .	. . . .	. . . .	. . . .	. . . .	0.10	. . . .
G32	9018.40	. . . .	. . . .	. . . .	. . . .	. . . .	0.09	. . . .
G33	9006.13	. . . .	. . . .	. . . .	. . . .	. . . .	0.03	. . . .
G34	8995.21	. . . .	. . . .	. . . .	. . . .	. . . .	0.08	. . . .
G35	8981.85	. . . .	. . . .	. . . .	. . . .	. . . .	0.10	. . . .
SG35	8974.89	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G36	8964.21	. . . .	. . . .	. . . .	. . . .	. . . .	0.02	. . . .
SG36	8955.26	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G37	8945.34	. . . .	. . . .	. . . .	. . . .	. . . .	0.04	. . . .
SG37	8937.39	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G38	8930.39	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .
SG38	8923.44	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G39	8916.86	. . . .	. . . .	. . . .	. . . .	. . . .	-0.03	. . . .
SG39	8913.78	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G40	8906.02	. . . .	. . . .	. . . .	. . . .	. . . .	0.01	. . . .
SG40	8902.15	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G41	8892.67	. . . .	. . . .	. . . .	. . . .	. . . .	-0.04	. . . .
SG41	8886.58	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G42	8877.43	. . . .	. . . .	. . . .	. . . .	. . . .	-0.01	. . . .
SG42	8872.97	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G43	8863.53	. . . .	. . . .	. . . .	. . . .	. . . .	-0.03	. . . .
SG43	8861.41	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G44	8858.04	. . . .	. . . .	. . . .	. . . .	. . . .	-0.02	. . . .
SG44	8859.48	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
G45	8859.54	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .
G46	8872.66	. . . .	. . . .	. . . .	. . . .	. . . .	-0.07	. . . .
G47	8884.46	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	. . . .
G48	8898.13	. . . .	. . . .	. . . .	. . . .	. . . .	-0.06	. . . .
G49	8913.06	. . . .	. . . .	. . . .	. . . .	. . . .	-0.09	. . . .
G50	8927.28	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	0.04

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
DC1	8994.66	0.00	0.00	0.00	....	....	....	....
DC2	8955.53	0.00	0.00	0.00	....	....	....	....
BM1	9025.91	0.00	0.00	0.00	0.00	0.00	0.00	0.11
BM2	9150.51	0.58	0.56	0.61	0.45	0.64	0.77	0.73
BM3	9188.67	1.37	1.96	2.42	2.30	....	2.78	2.97
BM4	9134.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BM5	9096.70	0.09	0.00	0.00	0.00	0.00	0.00	0.00
BM6	8943.36	0.00	0.00	0.00	....	....	0.04	0.06
BM7	9106.90	0.00	0.00	0.00	....	0.00	0.00	0.00
BM8	8980.15	....	....	....	....	....	....	....
BM9	8961.61	....	....	....	....	....	....	....
BM10	9067.32	....	....	....	....	....	....	....
NCP0	....	....	....	....	....	....	....	....
NCP1	....	....	....	....	....	....	....	....
NCP2	....	....	....	....	....	....	....	....
NCP3	....	....	....	....	....	....	....	....
NCP4	....	....	....	....	....	....	....	....
NCP5	....	....	....	....	....	....	....	....
NCP6	....	....	....	....	....	....	....	....
NCP7	....	....	....	....	....	....	....	....
NCP8	....	....	....	....	....	....	....	....
NCP9	....	....	....	....	....	....	....	....
C1	8998.65	0.13	0.11	0.12	0.10	0.09	....	....
C2	8988.15	0.13	0.13	0.12	0.13	0.10	....	....
C3	8978.20	0.13	0.12	0.13	0.15	0.13	....	....
C4	8971.85	0.16	0.15	0.18	0.15	0.12	....	....
C5	8970.99	0.15	0.15	0.18	0.18	0.17	....	....
C6	8976.02	0.15	0.14	0.09	0.16	0.14	....	....
C7	8984.61	0.15	0.17	0.22	0.19	0.18	....	....
C8	8990.13	0.19	0.18	0.25	0.18	0.19	....	....
C9	8993.46	0.19	0.22	0.25	0.23	0.22	....	....
C10	8997.67	0.25	0.26	0.32	0.30	0.25	....	....
C11	9001.98	0.30	0.32	0.36	0.36	0.33	....	....
C12	9008.04	0.39	0.43	0.50	0.48	0.49	....	....
C13	9017.60	1.03	1.08	1.09	1.07	1.16	....	....
C14	9030.62	1.17	1.20	1.24	1.22	1.28	....	....
C15	9054.08	1.31	1.35	1.40	1.35	1.47	....	....
C16	9076.04	1.44	1.53	1.58	1.50	1.64	....	....
C17	9096.46	1.68	1.87	1.84	1.78	1.96	....	....
C18	9120.88	1.90	2.04	2.06	1.98	2.16	....	....

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES: 9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
C19	9137.26	2.08	2.26	2.26	2.14	2.33	....	....
C20	9152.74	2.15	2.34	2.37	2.22	2.42	....	....
C21	9166.18	2.21	2.31	2.41	2.25	2.48	....	....
C22	9173.53	2.25	2.33	2.46	2.32	2.55	....	....
C23	9175.25	2.21	2.39	2.54	2.36	2.59	....	....
C24	9170.81	2.19	2.39	2.57	2.39	2.64	....	....
C25	9170.54	....	....	....	....	....	....	....
C26	9151.64	1.58	2.31	2.49	2.33	2.56	....	....
C27	9138.24	1.88	2.25	2.47	2.29	2.56	....	....
C28	9187.66	1.71	2.12	2.35	2.24	2.54	....	....
C29	9189.62	1.60	2.00	2.32	2.15	2.47	....	....
C30	9190.13	1.39	1.94	2.30	2.14	2.49	....	....
C31	9193.08	1.31	1.69	2.09	1.92	2.28	....	....
C32	9188.37	1.16	1.54	1.91	1.81	2.19	....	....
C33	9187.61	1.13	1.41	1.79	1.63	2.01	....	....
C34	9183.94	0.88	1.18	1.45	1.12	1.48	....	....
C35	9179.18	0.63	0.69	0.99	0.69	1.01	....	....
C36	9175.90	0.75	0.83	0.93	0.57	0.88	....	....
C37	9178.13	0.62	0.48	0.58	0.28	0.53	....	....
C38	9175.22	0.52	0.60	0.53	0.24	0.44	....	....
C39	9170.81	0.40	0.37	0.47	0.12	0.31	....	....
C40	9162.20	0.31	0.22	0.31	0.01	0.18	....	....
C41	9148.84	0.40	0.18	0.27	-0.04	0.13	....	....
C42	9135.52	0.26	0.07	0.17	-0.09	0.06	....	....
C43	9125.00	0.20	-0.06	0.10	-0.20	-0.04	....	....
C44	9117.09	0.04	-0.13	-0.01	-0.23	-0.07	....	....
C45	9105.25	0.07	-0.16	-0.03	-0.29	-0.12	....	....
C46	9094.48	0.12	-0.14	0.03	-0.25	-0.11	....	....
C47	9065.21	0.27	0.01	0.21	-0.15	0.02	....	....
C48	9046.81	0.05	-0.30	0.06	-0.29	-0.13	....	....
C49	9028.02	0.28	-0.04	0.13	-0.19	-0.01	....	....
C50	9024.26	0.17	....	0.03	-0.27	-0.10	....	....
P16	9203.57	1.37	1.40	1.40	1.21	1.37	....	....
P15	9197.23	1.50	1.60	1.63	1.44	1.62	....	....
P14	9194.67	1.61	2.09	1.86	1.66	1.87	....	....
P13	9191.28	1.78	2.04	2.16	1.99	2.22	....	....
P12	9183.72	2.04	2.38	2.72	2.57	2.85	....	....
P11	9180.58	1.87	2.37	2.78	2.63	2.93	....	....
P10	9176.25	1.75	2.32	2.74	2.57	2.88	....	....
P9	9171.03	1.61	2.17	2.60	2.45	2.76	....	....

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/16/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
P8	9165.59	1.24	1.77	2.16	2.06	2.37	....	....
P7	9160.70	1.16	1.51	1.75	1.64	1.90	....	....
P6	9159.07	0.87	1.01	1.19	1.02	1.21	....	....
P5	9160.44	0.61	0.58	0.67	0.52	0.62	....	....
P4	9157.80	0.45	0.42	0.49	0.34	0.41	....	....
P3	9154.42	0.47	0.37	0.41	0.26	0.31	....	....
P2	9151.12	0.32	0.24	0.30	0.14	0.19	....	....
P1	9143.31	0.19	0.10	0.13	-0.02	0.03	....	....
P17	9129.72	....	....	....	....	....	0.02	0.08
P18	9114.29	....	....	....	....	....	0.19	0.23
P19	9100.43	....	....	....	....	....	0.03	0.15
P20	9089.13	....	....	....	....	....	0.12	0.23
P21	9074.91	....	....	....	....	....	0.04	0.10
P22	9061.37	....	....	....	....	....	0.13	0.17
P23	9048.42	....	....	....	....	....	0.03	0.22
P24	9042.63	....	....	....	....	....	0.17	0.16
P25	9038.54	....	....	....	....	....	0.11	0.19
SP25	9039.18	....	....	....	....	....	0.08	0.04
P26	9036.75	....	....	....	....	....	0.14	0.18
SP26	9036.84	....	....	....	....	....	0.02	0.16
P27	9035.61	....	....	....	....	....	0.15	0.32
SP27	9033.56	....	....	....	....	....	0.11	0.14
P28	9027.03	....	....	....	....	....	0.10	0.28
SP28	9020.71	....	....	....	....	....	-0.04	0.11
SP29	9014.04	....	....	....	....	....	0.10	0.15
SP30	9007.47	....	....	....	....	....	0.09	0.20
SP31	9000.30	....	....	....	....	....	0.03	0.13
SP32	8991.51	....	....	....	....	....	0.09	0.31
SP33	8979.06	....	....	....	....	....	0.16	0.13
SP34	8966.51	....	....	....	....	....	0.04	0.19
SP35	8954.55	....	....	....	....	....	....	0.21
SP36	8945.07	....	....	....	....	....	....	....
SP37	8937.55	....	....	....	....	....	....	....
SP38	8932.96	....	....	....	....	....	....	....
SP39	8929.45	....	....	....	....	....	....	....
SP40	8926.20	....	....	....	....	....	....	....
SP41	8923.56	....	....	....	....	....	....	....
SP42	8922.57	....	....	....	....	....	....	....
SP43	8922.02	....	....	....	....	....	....	....
SP44	8921.65	....	....	....	....	....	....	....

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
SP45	8921.35	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
D1	8940.16	0.06	0.10	0.11	-0.11	0.06	. . . .	. . . .
D2	8953.04	0.16	0.17	0.19	-0.06	0.11	. . . .	. . . .
D3	8949.27	0.13	0.19	0.15	-0.05	0.12	. . . .	. . . .
D4	8949.94	0.10	0.15	0.17	-0.04	0.13	. . . .	. . . .
D5	8957.29	0.13	0.15	0.21	-0.03	0.15	. . . .	. . . .
D6	8967.44	0.16	0.25	0.23	-0.02	0.16	. . . .	. . . .
D7	8975.26	0.13	0.19	0.22	-0.03	0.14	. . . .	. . . .
D8	8983.90	0.23	0.23	0.12	-0.00	0.19	. . . .	. . . .
D9	8990.92	0.27	0.38	0.36	0.14	0.36	. . . .	. . . .
D10	8999.20	0.47	0.53	0.50	0.29	0.51	. . . .	. . . .
D11	9007.03	0.73	0.97	0.86	0.65	0.92	. . . .	. . . .
D12	9016.69	1.13	1.24	1.27	1.07	1.33	. . . .	. . . .
D13	9029.19	1.23	1.40	1.40	1.20	1.45	. . . .	. . . .
A1	9015.87	0.60	0.59	0.73	0.54	. . . .	. . . .	. . . .
A2	9014.25	0.65	0.63	0.75	0.60	0.83	. . . .	. . . .
A3	9009.87	0.71	0.66	0.83	0.64	0.91	. . . .	. . . .
A4	9004.22	0.63	0.58	0.71	0.55	0.81	. . . .	. . . .
A5	9001.00	0.28	0.20	0.35	0.16	0.35	. . . .	. . . .
A6	8998.65	0.22	0.15	0.30	0.10	0.33	. . . .	. . . .
A7	8993.71	0.17	0.09	0.27	0.06	0.28	. . . .	. . . .
A8	8991.47	0.02	-0.04	0.08	-0.10	0.15	. . . .	. . . .
B1	9173.78	0.38	0.56	0.43	0.16	0.38	. . . .	. . . .
B2	9170.75	0.38	0.44	0.46	0.16	0.39	. . . .	. . . .
B3	9158.29	0.39	0.37	0.45	0.21	0.43	. . . .	. . . .
B4	9141.32	0.28	0.18	0.36	0.11	0.29	. . . .	. . . .
B5	9124.50	0.22	0.19	0.35	0.12	0.31	. . . .	. . . .
B6	9111.43	0.12	0.02	0.28	-0.00	0.16	. . . .	. . . .
B7	9095.66	0.14	-0.06	0.26	0.03	0.22	. . . .	. . . .
E1	9008.16	-0.07	-0.03	-0.04	-0.09	-0.02	. . . .	. . . .
E2	8997.85	-0.07	-0.04	-0.03	-0.09	-0.01	. . . .	. . . .
E3	8987.42	-0.08	-0.04	-0.05	-0.11	-0.03	. . . .	. . . .
E4	8977.75	-0.08	-0.05	-0.05	-0.11	-0.03	. . . .	. . . .
E5	8968.10	-0.06	-0.05	-0.05	-0.12	-0.02	. . . .	. . . .
E6	8959.71	-0.06	-0.05	-0.05	-0.16	-0.02	. . . .	. . . .
E7	8954.73	-0.06	-0.07	-0.03	-0.12	-0.01	. . . .	. . . .
E8	8957.98	-0.09	-0.03	-0.08	-0.13	-0.03	. . . .	. . . .
E9	8959.92	-0.08	-0.04	0.02	-0.16	-0.01	. . . .	. . . .
E10	8960.97	-0.08	-0.04	-0.23	-0.11	-0.02	. . . .	. . . .
E11	8967.90	-0.06	-0.01	0.03	-0.10	0.02	. . . .	. . . .

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES: 9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
E12	8983.37	-0.05	0.00	0.06	-0.10	0.10	....	....
E13	8993.24	0.04	0.07	0.12	-0.02	0.22	....	....
E14	9007.06	0.02	0.06	0.07	-0.01	0.39	....	....
E15	9029.96	0.02	0.05	0.07	-0.02	0.52	....	....
E16	9055.05	0.03	0.06	0.13	-0.01	0.54	....	....
E17	9076.10	0.06	0.13	0.21	0.02	0.57	....	....
E18	9094.27	0.13	0.17	0.25	0.07	0.57	....	....
E19	9104.22	....	....	....	0.13	0.61	....	....
E20	9105.05	....	....	....	0.23	0.64	....	....
E21	9118.34	0.24	0.39	0.52	0.29	0.72	....	....
E22	9129.72	0.30	0.58	0.59	0.39	0.80	....	....
E23	9140.18	0.43	0.44	0.62	0.48	0.90	....	....
E24	9147.95	0.36	0.58	0.76	0.60	1.00	....	....
E25	9154.02	0.46	0.63	0.87	0.74	1.13	....	....
E26	9157.11	0.43	0.68	0.96	0.82	1.23	....	....
E27	9159.69	0.45	0.75	1.04	0.95	1.32	....	....
E28	9161.39	0.36	0.75	1.07	0.98	1.36	....	....
E29	9159.76	0.33	0.62	0.98	0.71	1.10	....	....
E30	9155.41	0.20	0.55	1.00	0.72	1.11	....	....
E31	9148.90	0.19	0.33	0.86	0.54	0.97	....	....
E32	9141.48	0.04	0.34	0.66	0.42	0.85	....	....
E33	9134.71	0.09	0.24	0.52	0.31	0.77	....	....
E34	9125.08	0.08	0.10	0.33	0.17	0.60	....	....
E35	9116.50	0.06	0.11	0.31	0.08	0.49	....	....
E36	9112.04	0.06	-0.21	0.28	0.01	0.38	....	....
E37	9105.12	0.03	-0.07	0.11	-0.08	0.19	....	....
E38	9090.76	....	....	0.07	-0.16	0.06	....	....
E39	9075.65	-0.02	-0.13	-0.00	-0.21	-0.03	....	....
E40	9065.14	-0.00	-0.16	0.06	-0.19	-0.01	....	....
E41	9051.25	0.04	-0.19	-0.02	-0.23	-0.07	....	....
E42	9040.70	0.02	-0.09	0.09	-0.16	-0.00	....	....
E43	9034.43	0.04	-0.19	-0.01	-0.26	-0.11	....	....
E44	9031.28	-0.04	-0.22	0.04	-0.19	-0.06	....	....
E45	9025.88	0.02	-0.20	-0.01	-0.22	-0.10	....	....
E46	9006.92	0.00	-0.32	-0.03	-0.21	-0.08	....	....
E47	8988.15	0.04	-0.21	-0.06	-0.22	-0.07	....	....
E48	8971.80	0.03	-0.20	-0.01	-0.21	-0.06	....	....
E49	8951.26	0.11	-0.17	0.03	-0.15	0.00	....	....
E50	8942.68	....	....	....	-0.14	0.00	....	....
F1	9027.07	-0.06	-0.02	-0.04	-0.04	-0.03	....	....

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/02/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
F2	9008.49	-0.04	-0.03	-0.04	-0.03	-0.01	. . . .	. . . .
F3	8995.51	-0.06	0.00	0.00	-0.03	-0.01	. . . .	. . . .
F4	8982.79	-0.03	-0.00	0.01	-0.02	-0.00	. . . .	. . . .
F5	8970.51	-0.02	-0.00	-0.01	-0.03	-0.01	. . . .	. . . .
F6	8956.47	-0.01	0.01	-0.01	-0.00	0.01	. . . .	. . . .
F7	8945.05	0.00	-0.01	0.01	-0.00	0.01	. . . .	. . . .
F8	8931.96	-0.01	0.06	0.05	0.01	0.01	. . . .	. . . .
F9	8924.71	-0.02	0.08	0.06	0.01	0.00	. . . .	. . . .
F10	8926.09	-0.06	-0.02	-0.01	-0.03	0.00	. . . .	. . . .
F11	8941.36	-0.02	-0.00	-0.01	-0.03	-0.02	. . . .	. . . .
F12	8955.26	-0.00	-0.04	0.01	-0.02	0.01	. . . .	. . . .
F13	8966.39	0.00	-0.05	-0.03	-0.02	0.09	. . . .	. . . .
F14	8978.04	0.03	0.02	0.05	-0.03	0.18	. . . .	. . . .
F15	9000.47	0.03	0.01	0.04	-0.03	0.21	. . . .	. . . .
F16	9026.33	0.03	-0.02	0.03	-0.05	0.22	. . . .	. . . .
F17	9061.13	0.05	-0.03	0.04	-0.08	0.21	. . . .	. . . .
F18	9081.04	0.07	0.04	0.07	-0.08	0.18	. . . .	. . . .
F19	9093.32	0.07	0.03	0.06	-0.07	0.14	. . . .	. . . .
F20	9099.94	0.09	0.08	0.08	-0.08	0.12	. . . .	. . . .
F21	9107.45	. . . .	0.20	0.10	-0.07	0.09	. . . .	. . . .
F22	9114.79	0.10	0.13	0.14	-0.07	0.07	. . . .	. . . .
F23	9120.92	0.23	0.10	0.16	-0.06	0.05	. . . .	. . . .
F24	9124.11	0.30	0.34	0.44	-0.05	0.04	. . . .	. . . .
F25	9125.36	0.16	0.41	0.38	-0.05	0.01	. . . .	. . . .
F26	9128.82	0.15	0.34	0.37	-0.05	-0.03	. . . .	. . . .
F27	9137.33	0.33	0.41	0.01	-0.05	0.00	. . . .	. . . .
F28	9143.67	0.34	0.21	0.13	-0.04	-0.00	. . . .	. . . .
F29	9142.21	0.18	0.31	0.18	-0.04	0.00	. . . .	. . . .
F30	9133.76	0.15	0.38	0.21	-0.02	0.01	. . . .	. . . .
F31	9121.28	0.28	0.39	0.13	-0.01	0.02	. . . .	. . . .
F32	9108.36	0.19	0.24	0.17	-0.01	0.02	. . . .	. . . .
F33	9093.02	0.16	0.25	0.18	-0.01	0.04	. . . .	. . . .
F34	9083.37	0.17	0.25	0.25	-0.00	0.04	. . . .	. . . .
F35	9075.64	0.09	0.12	0.14	0.00	0.03	. . . .	. . . .
F36	9070.91	0.15	0.19	0.20	0.00	0.05	. . . .	. . . .
F37	9057.40	0.12	0.02	0.14	-0.01	0.03	. . . .	. . . .
F38	9039.82	0.19	0.17	0.18	-0.00	0.03	. . . .	. . . .
F39	9027.80	0.14	0.08	0.13	-0.01	0.05	. . . .	. . . .
F40	9008.94	0.17	0.10	0.12	-0.01	0.05	. . . .	. . . .
F41	8989.27	0.10	-0.03	0.06	-0.01	0.07	. . . .	. . . .

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
F42	8973.19	0.14	0.04	0.08	-0.02	0.06	....	....
F43	8952.18	0.05	-0.09	0.00	-0.02	0.06	....	....
F44	8931.29	0.10	0.02	0.06	-0.02	0.05	....	....
F45	8911.66	0.07	-0.15	-0.01	-0.03	0.06	....	....
F46	8893.75	0.09	-0.03	0.03	-0.02	0.04	....	....
F47	8859.64	0.03	-0.19	-0.02	-0.03	-0.01	....	....
G1	9017.27	....	....	....	....	....	-0.16	0.39
G2	9010.00	....	....	....	....	....	-0.07	-0.08
G3	8996.96	....	....	....	....	....	-0.12	-0.10
G4	8986.77	....	....	....	....	....	-0.21	-0.04
G5	8979.31	....	....	....	....	....	-0.19	-0.05
SG5	8974.82	....	....	....	....	....	0.03	-0.09
G6	8968.83	....	....	....	....	....	-0.06	-0.03
SG6	8964.78	....	....	....	....	....	-0.01	-0.14
G7	8957.86	....	....	....	....	....	-0.07	-0.06
SG7	8951.87	....	....	....	....	....	-0.01	-0.14
G8	8940.86	....	....	....	....	....	-0.34	....
SG8	8931.87	....	....	....	....	....	-0.14	....
G9	8920.29	....	....	....	....	....	-0.07	....
SG9	8911.38	....	....	....	....	....	-0.18	....
G10	8904.15	....	....	....	....	....	-0.08	....
SG10	8900.79	....	....	....	....	....	-0.16	....
G11	8897.67	....	....	....	....	....	-0.07	....
SG11	8906.63	....	....	....	....	....	-0.16	....
G12	8916.99	....	....	....	....	....	-0.11	-0.11
SG12	8929.77	....	....	....	....	....	0.03	-0.13
G13	8939.73	....	....	....	....	....	-0.06	-0.07
SG13	8949.34	....	....	....	....	....	0.06	-0.08
G14	8956.60	....	....	....	....	....	-0.07	-0.02
SG14	8970.00	....	....	....	....	....	....	-0.13
G15	8986.45	....	....	....	....	....	-0.02	-0.10
G16	9020.60	....	....	....	....	....	-0.08	-0.01
G17	9049.24	....	....	....	....	....	-0.09	-0.05
G18	9068.76	....	....	....	....	....	-0.10	0.00
G19	9080.04	....	....	....	....	....	-0.08	-0.11
G20	9086.97	....	....	....	....	....	0.01	0.01
G21	9090.12	....	....	....	....	....	0.29	0.15
G22	9085.88	....	....	....	....	....	0.09	0.18
G23	9092.52	....	....	....	....	....	0.10	0.13
G24	9079.10	....	....	....	....	....	0.02	0.06

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	9/19/1980 J + T : T	10/27/1980 J + T : T	12/04/1980 J + T : T	12/10/1980 J + T : L	6/08/1981 J + T : L	6/23/1981 USBM : T	7/07/1981 USBM : T
G25	9072.97	. . . .	. . . .	. . . .	. . . .	. . . .	0.00	0.02
G26	9066.66	. . . .	. . . .	. . . .	. . . .	. . . .	0.05	0.07
G27	9058.06	. . . .	. . . .	. . . .	. . . .	. . . .	0.04	0.18
G28	9050.06	. . . .	. . . .	. . . .	. . . .	. . . .	-0.02	0.21
G29	9042.11	. . . .	. . . .	. . . .	. . . .	. . . .	0.00	0.19
G30	9033.43	. . . .	. . . .	. . . .	. . . .	. . . .	-0.11	0.11
G31	9025.21	. . . .	. . . .	. . . .	. . . .	. . . .	0.11	0.07
G32	9018.40	. . . .	. . . .	. . . .	. . . .	. . . .	-0.10	0.12
G33	9006.13	. . . .	. . . .	. . . .	. . . .	. . . .	0.07	0.12
G34	8995.21	. . . .	. . . .	. . . .	. . . .	. . . .	-0.02	0.09
G35	8981.85	. . . .	. . . .	. . . .	. . . .	. . . .	-0.10	-0.02
SG35	8974.89	. . . .	. . . .	. . . .	. . . .	. . . .	0.02	0.09
G36	8964.21	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	0.06
SG36	8956.26	. . . .	. . . .	. . . .	. . . .	. . . .	-0.01	0.03
G37	8945.34	. . . .	. . . .	. . . .	. . . .	. . . .	-0.04	0.06
SG37	8937.39	. . . .	. . . .	. . . .	. . . .	. . . .	-0.03	-0.12
G38	8930.39	. . . .	. . . .	. . . .	. . . .	. . . .	-0.07	0.04
SG38	8923.44	. . . .	. . . .	. . . .	. . . .	. . . .	-0.06	-0.05
G39	8916.86	. . . .	. . . .	. . . .	. . . .	. . . .	-0.11	-0.03
SG39	8913.78	. . . .	. . . .	. . . .	. . . .	. . . .	-0.06	-0.08
G40	8908.02	. . . .	. . . .	. . . .	. . . .	. . . .	-0.03	0.00
SG40	8902.15	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	0.03
G41	8892.67	. . . .	. . . .	. . . .	. . . .	. . . .	0.45	-0.02
SG41	8886.58	. . . .	. . . .	. . . .	. . . .	. . . .	0.00	-0.08
G42	8877.43	. . . .	. . . .	. . . .	. . . .	. . . .	-0.06	0.00
SG42	8872.97	. . . .	. . . .	. . . .	. . . .	. . . .	-0.07	-0.08
G43	8863.93	. . . .	. . . .	. . . .	. . . .	. . . .	-0.12	-0.05
SG43	8861.41	. . . .	. . . .	. . . .	. . . .	. . . .	-0.15	-0.10
G44	8858.04	. . . .	. . . .	. . . .	. . . .	. . . .	-0.06	-0.03
SG44	8859.48	. . . .	. . . .	. . . .	. . . .	. . . .	-0.16	-0.14
G45	8859.54	. . . .	. . . .	. . . .	. . . .	. . . .	-0.11	-0.07
G46	8872.66	. . . .	. . . .	. . . .	. . . .	. . . .	-0.05	-0.01
G47	8884.46	. . . .	. . . .	. . . .	. . . .	. . . .	-0.10	-0.02
G48	8898.13	. . . .	. . . .	. . . .	. . . .	. . . .	-0.12	0.03
G49	8913.06	. . . .	. . . .	. . . .	. . . .	. . . .	-0.07	-0.02
G50	8927.28	. . . .	. . . .	. . . .	. . . .	. . . .	-0.11	-0.04

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
DC1	8994.68	. . . .	0.00	. . . .	. . . .	. . . .	. . . .	. . . .
DC2	8955.53	. . . .	0.00	. . . .	. . . .	. . . .	. . . .	. . . .
BM1	9025.91	0.00	0.00	0.00	0.00	. . . .	0.00	0.00
BM2	9159.51	0.71	1.49	0.87	0.87	0.78	1.13	. . . .
BM3	9188.67	. . . .	3.25	. . . .	2.70	2.72	. . . .	. . . .
BM4	9184.14	0.00	0.00	0.00	0.00	. . . .	0.00	0.00
BM5	9096.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BM6	8943.36	0.05	0.00	0.07	0.17	. . . .	0.09	. . . .
BM7	9106.90	0.00	0.00	0.00	0.00	. . . .	0.00	. . . .
BM8	8980.15	. . . .	0.00	. . . .	. . . .	. . . .	. . . .	. . . .
BM9	8961.61	. . . .	0.00	. . . .	. . . .	. . . .	. . . .	. . . .
BM10	9067.32	. . . .	0.00	. . . .	0.00	. . . .	. . . .	. . . .
NCP0	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP1	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP2	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP3	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP4	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP5	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP6	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP7	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP8	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
NCP9	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
C1	8998.65	. . . .	. . . .	. . . .	0.08	. . . .	. . . .	. . . .
C2	8966.15	. . . .	. . . .	. . . .	0.09	. . . .	. . . .	. . . .
C3	8978.20	. . . .	. . . .	. . . .	0.10	. . . .	. . . .	. . . .
C4	8971.85	. . . .	. . . .	. . . .	0.07	. . . .	. . . .	. . . .
C5	8970.99	. . . .	. . . .	. . . .	0.15	0.17	. . . .	. . . .
C6	8976.02	. . . .	. . . .	. . . .	0.13	0.14	. . . .	. . . .
C7	8984.61	. . . .	. . . .	. . . .	0.16	0.18	. . . .	. . . .
C8	8990.13	. . . .	. . . .	. . . .	0.16	0.19	. . . .	. . . .
C9	8993.46	. . . .	. . . .	. . . .	0.16	0.23	. . . .	. . . .
C10	8997.67	. . . .	. . . .	. . . .	0.25	0.29	. . . .	. . . .
C11	9001.98	. . . .	. . . .	. . . .	0.35	0.37	. . . .	. . . .
C12	9008.04	. . . .	. . . .	. . . .	0.53	0.55	. . . .	. . . .
C13	9017.60	. . . .	. . . .	. . . .	1.26	1.27	. . . .	. . . .
C14	9030.62	. . . .	. . . .	. . . .	1.44	1.44	. . . .	. . . .
C15	9054.08	. . . .	. . . .	. . . .	1.60	1.56	. . . .	. . . .
C16	9076.04	. . . .	. . . .	. . . .	1.77	1.77	. . . .	. . . .
C17	9096.46	. . . .	. . . .	. . . .	2.12	2.10	. . . .	. . . .
C18	9120.86	. . . .	. . . .	. . . .	2.44	2.32	. . . .	. . . .

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
C19	9137.26	....	....	....	2.54	2.48	....	....
C20	9152.74	....	....	....	2.56	2.57	....	....
C21	9166.18	....	....	....	2.64	2.58	....	....
C22	9173.53	....	....	....	2.74	2.63	....	....
C23	9175.25	....	....	....	2.86	2.67	....	....
C24	9170.51	....	....	....	2.96	2.68	....	....
C25	9170.54	....	....	....	....	....	....	....
C26	9161.64	....	....	....	2.69	2.64	....	....
C27	9188.24	....	....	....	2.52	2.56	....	....
C28	9167.66	....	....	....	2.47	2.53	....	....
C29	9189.62	....	....	....	2.42	2.46	....	....
C30	9190.13	....	....	....	2.38	2.46	....	....
C31	9193.08	....	....	....	2.52	2.24	....	....
C32	9188.37	....	....	....	2.40	2.14	....	....
C33	9187.61	....	....	....	....	1.93	....	....
C34	9183.94	....	....	....	1.43	1.42	....	....
C35	9179.18	....	....	....	1.00	0.94	....	....
C36	9173.90	....	....	....	1.03	0.77	....	....
C37	9178.13	....	....	....	0.55	0.42	....	....
C38	9175.22	....	....	....	0.53	0.33	....	....
C39	9170.81	....	....	....	0.36	0.19	....	....
C40	9162.20	....	....	....	0.31	0.06	....	....
C41	9148.84	....	....	....	0.05	0.01	....	....
C42	9135.52	....	....	....	0.03	-0.05	....	....
C43	9125.00	....	....	....	-0.20	-0.13	....	....
C44	9117.09	....	....	....	-0.01	-0.20	....	....
C45	9105.25	....	....	....	-0.06	-0.25	....	....
C46	9084.48	....	....	....	-0.09	-0.19	....	....
C47	9065.21	....	....	....	-0.03	-0.09	....	....
C48	9046.81	....	....	....	-0.12	-0.22	....	....
C49	9028.02	....	....	....	-0.08	-0.12	....	....
C50	9004.20	....	....	....	-0.16	-0.20	....	....
P16	9203.57	....	....	....	1.63	1.30	....	....
P15	9197.23	....	....	....	1.88	1.56	....	....
P14	9194.67	....	....	....	2.14	1.82	....	....
P13	9191.28	....	....	....	2.50	2.20	....	....
P12	9193.72	....	....	....	3.14	2.93	....	....
P11	9180.58	....	....	....	3.24	3.03	....	....
P10	9176.25	....	....	....	3.18	3.00	....	....
P9	9171.03	....	....	....	3.09	2.91	....	....

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES: 7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
P8	9165.59	2.53	. . . .	2.67	2.73	2.55	2.84	. . . .
P7	9160.70	2.09	. . . .	2.24	2.30	2.13	2.41	. . . .
P6	9159.07	1.37	. . . .	1.50	1.56	1.38	1.66	. . . .
P5	9160.44	0.77	. . . .	0.88	0.93	0.76	1.01	. . . .
P4	9157.80	0.54	. . . .	0.61	0.67	0.50	0.72	. . . .
P3	9154.42	0.46	. . . .	0.53	0.59	0.40	0.60	. . . .
P2	9151.12	0.27	. . . .	0.32	0.41	0.22	0.42	. . . .
P1	9143.31	0.13	. . . .	0.17	0.23	0.05	0.22	. . . .
P17	9129.72	-0.01	. . . .	0.03	0.04	-0.08	0.09	. . . .
P18	9114.29	0.00	. . . .	0.06	0.14	-0.03	0.12	. . . .
P19	9100.43	-0.01	. . . .	0.02	0.24	-0.05	0.06	. . . .
P20	9089.13	0.00	. . . .	0.02	0.15	-0.04	0.05	. . . .
P21	9074.91	-0.00	. . . .	0.01	0.10	-0.04	0.03	. . . .
P22	9061.37	-0.00	. . . .	0.01	0.17	-0.03	0.02	. . . .
P23	9048.42	-0.00	. . . .	0.01	0.06	-0.03	0.03	. . . .
P24	9042.63	-0.00	. . . .	0.01	0.03	-0.01	0.04	. . . .
P25	9038.54	-0.00	. . . .	-0.00	0.11	-0.03	0.01	. . . .
SP25	9039.18	. . . .	. . . .	. . . .	0.12	-0.09	. . . .	. . . .
P26	9036.75	-0.01	. . . .	-0.00	0.09	-0.04	0.00	. . . .
SP26	9036.84	. . . .	. . . .	. . . .	0.22	-0.08	. . . .	. . . .
P27	9035.61	-0.00	. . . .	0.02	0.08	-0.02	0.03	. . . .
SP27	9033.56	. . . .	. . . .	. . . .	0.14	-0.07	. . . .	. . . .
P28	9027.03	-0.00	. . . .	0.01	0.02	-0.03	0.04	. . . .
SP28	9020.71	. . . .	. . . .	. . . .	0.09	-0.06	. . . .	. . . .
SP29	9014.04	. . . .	. . . .	. . . .	0.09	-0.02	. . . .	. . . .
SP30	9007.47	. . . .	. . . .	. . . .	0.16	-0.01	. . . .	. . . .
SP31	9000.30	. . . .	. . . .	. . . .	0.00	-0.00	. . . .	. . . .
SP32	8991.51	. . . .	. . . .	. . . .	0.15	0.01	. . . .	. . . .
SP33	8979.06	. . . .	. . . .	. . . .	0.07	0.02	. . . .	. . . .
SP34	8966.51	. . . .	. . . .	. . . .	0.13	0.04	. . . .	. . . .
SP35	8954.85	. . . .	. . . .	. . . .	0.13	0.02	. . . .	. . . .
SP36	8945.07	. . . .	. . . .	. . . .	0.06	0.09	. . . .	. . . .
SP37	8937.55	. . . .	. . . .	. . . .	0.13	0.10	. . . .	. . . .
SP38	8932.96	. . . .	. . . .	. . . .	0.14	0.08	. . . .	. . . .
SP39	8929.45	. . . .	. . . .	. . . .	0.05	0.07	. . . .	. . . .
SP40	8926.20	. . . .	. . . .	. . . .	0.15	0.07	. . . .	. . . .
SP41	8923.56	. . . .	. . . .	. . . .	0.04	0.07	. . . .	. . . .
SP42	8922.57	. . . .	. . . .	. . . .	0.06	0.07	. . . .	. . . .
SP43	8922.02	. . . .	. . . .	. . . .	0.03	0.05	. . . .	. . . .
SP44	8921.65	. . . .	. . . .	. . . .	0.00	0.07	. . . .	. . . .

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
SP45	8921.35	....	....	....	0.05	0.06	....	....
D1	8960.18	....	....	....	....	0.08	....	....
D2	8953.04	....	....	....	0.05	0.13	....	....
D3	8949.27	....	....	....	....	0.13	....	....
D4	8949.94	....	....	....	....	0.18	....	....
D5	8957.29	....	....	....	0.09	0.18	....	....
D6	8967.44	....	....	....	0.22	0.20	....	....
D7	8975.26	....	....	....	0.14	0.19	....	....
D8	8983.90	....	....	....	0.27	0.24	....	....
D9	8990.92	....	....	....	0.34	0.42	....	....
D10	8999.20	....	....	....	0.69	0.59	....	....
D11	9007.03	....	....	....	1.07	1.06	....	....
D12	9016.69	....	....	....	1.47	1.52	....	....
D13	9029.19	....	....	....	1.59	1.62	....	....
A1	9015.87	....	....	....	0.92	0.89	....	....
A2	9014.25	....	....	....	1.00	0.98	....	....
A3	9009.87	....	....	....	1.12	1.11	....	....
A4	9004.22	....	....	....	1.11	1.07	....	....
A5	9001.00	....	....	....	0.44	0.47	....	....
A6	8998.65	....	....	....	0.62	0.49	....	....
A7	8993.71	....	....	....	0.39	0.76	....	....
A8	8991.47	....	....	....	0.42	0.62	....	....
B1	9173.78	....	....	....	0.29	0.27	....	....
B2	9170.78	....	....	....	0.46	0.28	....	....
B3	9158.29	....	....	....	0.43	0.35	....	....
B4	9141.32	....	....	....	0.48	0.26	....	....
B5	9124.50	....	....	....	0.32	0.27	....	....
B6	9111.43	....	....	....	0.19	0.13	....	....
B7	9095.66	....	....	....	0.19	0.17	....	....
E1	9008.16	-0.01	....	-0.00	....	....	0.00	0.09
E2	8997.85	-0.02	....	-0.01	....	....	-0.01	0.07
E3	8987.42	-0.02	....	-0.01	....	....	0.00	0.10
E4	8977.75	-0.03	....	-0.02	....	....	-0.02	0.07
E5	8968.10	-0.02	....	-0.02	....	....	0.00	0.09
E6	8959.71	-0.03	....	-0.02	....	....	0.00	0.07
E7	8954.73	-0.03	....	-0.02	....	....	0.01	0.12
E8	8957.98	-0.03	....	-0.03	....	....	0.00	0.13
E9	8959.92	-0.03	....	-0.02	....	....	0.00	0.19
E10	8960.97	-0.03	....	-0.00	....	....	0.03	0.16
E11	8957.90	-0.03	....	0.06	....	....	0.09	0.26

DEER CREEK SUBSIDENCE PROJECT LISTING ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
E12	8983.37	0.16	....	0.21	....	....	0.24	0.39
E13	8993.84	0.34	....	0.43	....	....	0.48	0.61
E14	9007.06	0.82	....	1.13	....	....	1.26	1.44
E15	9029.96	0.98	....	1.43	....	....	1.61	1.82
E16	9055.05	1.06	....	1.59	....	....	1.79	2.04
E17	9076.10	1.12	....	1.73	....	....	1.98	2.22
E18	9094.27	1.12	....	1.88	....	....	2.20	2.46
E19	9104.22	1.06	....	1.91	....	....	2.31	2.56
E20	9105.05	0.99	....	1.89	....	....	2.38	....
E21	9118.34	0.95	....	1.70	....	....	2.28	2.56
E22	9129.72	0.95	....	1.56	....	....	2.18	2.47
E23	9140.18	0.99	....	1.44	....	....	2.03	2.25
E24	9147.95	1.06	....	1.41	....	....	1.90	2.10
E25	9154.02	1.15	....	1.43	....	....	1.81	2.01
E26	9157.11	1.23	....	1.44	....	....	1.71	1.89
E27	9159.69	1.38	....	1.51	....	....	1.69	1.86
E28	9161.39	1.41	....	1.52	....	....	1.66	1.83
E29	9159.70	1.15	....	1.25	....	....	1.34	1.51
E30	9155.41	1.15	....	1.21	....	....	1.28	1.42
E31	9148.90	1.01	....	1.07	....	....	1.12	1.35
E32	9141.48	0.87	....	0.92	....	....	0.95	1.20
E33	9134.71	0.79	....	0.81	....	....	0.82	....
E34	9125.08	0.61	....	0.64	....	....	0.64	0.81
E35	9116.50	0.49	....	0.50	....	....	0.48	0.72
E36	9112.04	0.38	....	0.39	....	....	0.37	0.63
E37	9105.12	0.24	....	0.23	....	....	0.20	0.34
E38	9090.76	0.13	....	0.13	....	....	0.11	....
E39	9075.68	0.04	....	0.03	....	....	-0.00	0.14
E40	9065.14	0.06	....	0.05	....	....	0.02	0.24
E41	9051.25	0.00	....	-0.00	....	....	-0.03	0.18
E42	9040.70	0.05	....	0.04	....	....	-0.00	0.16
E43	9034.43	-0.06	....	-0.07	....	....	-0.10	0.07
E44	9031.28	-0.01	....	-0.03	....	....	-0.06	0.17
E45	9025.88	-0.05	....	-0.06	....	....	-0.08	0.05
E46	9006.92	-0.04	....	-0.06	....	....	-0.08	0.04
E47	8988.15	-0.05	....	-0.06	....	....	-0.09	0.09
E48	8971.80	-0.05	....	-0.06	....	....	-0.09	0.09
E49	8951.26	0.00	....	-0.02	....	....	-0.05	0.32
E50	8942.68	0.00	....	-0.00	....	....	-0.03	....
F1	9023.07	0.00	....	0.01	....	....	0.01	0.12

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES: 7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
F2	9008.49	0.01	....	0.01	....	....	0.01	0.18
F3	8975.51	0.00	....	0.01	....	....	0.02	0.16
F4	8982.79	0.01	....	0.02	....	....	0.03	0.22
F5	8970.51	0.00	....	0.01	....	....	0.03	0.22
F6	8956.47	0.02	....	0.02	....	....	0.04	0.27
F7	8945.05	0.02	....	0.02	....	....	0.04	0.18
F8	8931.96	0.03	....	0.02	....	....	0.05	0.33
F9	8924.71	0.04	....	0.03	....	....	0.07	0.31
F10	8926.09	0.02	....	0.01	....	....	0.04	0.18
F11	8941.36	0.02	....	0.02	....	....	0.07	0.25
F12	8955.26	0.06	....	0.07	....	....	0.12	0.27
F13	8966.19	0.16	....	0.17	....	....	0.24	0.43
F14	8978.04	0.37	....	0.46	....	....	0.55	0.72
F15	9000.47	0.53	....	0.71	....	....	0.82	1.02
F16	9026.33	0.56	....	0.78	....	....	0.91	1.07
F17	9061.13	0.57	....	0.85	....	....	1.01	1.28
F18	9081.04	0.53	....	0.87	....	....	1.07	1.32
F19	9093.32	0.45	....	0.85	....	....	1.12	1.34
F20	9099.94	0.36	....	0.72	....	....	1.04	1.36
F21	9107.45	0.27	....	0.55	....	....	0.86	1.18
F22	9114.79	0.21	....	0.41	....	....	0.66	1.00
F23	9120.92	0.16	....	0.30	....	....	0.49	0.74
F24	9124.11	0.12	....	0.21	....	....	0.36	0.62
F25	9125.36	0.09	....	0.16	....	....	0.30	0.57
F26	9128.82	0.05	....	0.14	....	....	0.26	....
F27	9137.33	0.10	....	0.14	....	....	0.19	0.69
F28	9143.67	0.09	....	0.11	....	....	0.13	0.42
F29	9142.21	0.09	....	0.10	....	....	0.12	0.40
F30	9133.76	0.10	....	0.11	....	....	0.12	0.61
F31	9121.28	0.11	....	0.10	....	....	0.09	0.38
F32	9108.36	0.10	....	0.09	....	....	0.09	0.40
F33	9093.02	0.10	....	0.09	....	....	0.07	0.42
F34	9083.37	0.09	....	0.09	....	....	0.08	0.35
F35	9075.64	0.09	....	0.07	....	....	0.07	....
F36	9070.91	0.08	....	0.08	....	....	0.07	0.36
F37	9057.40	0.05	....	0.04	....	....	0.04	0.26
F38	9039.82	0.05	....	0.04	....	....	0.02	0.29
F39	9027.80	0.06	....	0.05	....	....	0.04	0.31
F40	9008.94	0.05	....	0.03	....	....	0.02	0.29
F41	8989.27	0.05	....	0.03	....	....	0.02	0.24

DEER CREEK SUBSIDENCE PROJECT LISTIN F ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
F42	8973.19	0.03	. . . .	0.01	. . . .	. . . .	-0.01	0.26
F43	8952.18	0.01	. . . .	-0.01	. . . .	. . . .	-0.03	0.29
F44	8931.29	0.01	. . . .	-0.01	. . . .	. . . .	-0.03	0.29
F45	8911.66	-0.00	. . . .	-0.02	. . . .	. . . .	-0.03	0.29
F46	8893.75	-0.01	. . . .	-0.02	. . . .	. . . .	-0.03	0.36
F47	8889.64	-0.01	. . . .	-0.03	. . . .	. . . .	-0.04	0.39
G1	9017.27	-0.00	-0.19	-0.00	0.02	0.02	0.00	. . . .
G2	9010.00	-0.00	-0.06	-0.00	-0.01	0.03	-0.00	. . . .
G3	8996.96	0.00	-0.11	0.01	0.04	0.03	0.01	. . . .
G4	8986.77	-0.01	-0.02	0.00	0.00	0.04	-0.00	. . . .
G5	8979.31	-0.00	-0.12	0.00	0.04	0.05	0.00	. . . .
SG5	8974.82	-0.04	. . . .	. . . .	-0.04	-0.00	. . . .	. . . .
G6	8968.83	0.00	-0.39	0.00	0.04	0.04	-0.00	. . . .
SG6	8964.78	. . . .	. . . .	. . . .	-0.06	-0.00	. . . .	. . . .
G7	8957.86	-0.01	-0.17	0.00	0.00	0.05	-0.00	. . . .
SG7	8951.87	. . . .	. . . .	. . . .	-0.08	-0.01	. . . .	. . . .
G8	8940.86	-0.01	-0.15	-0.00	-0.31	0.06	-0.00	. . . .
SG8	8931.87	. . . .	. . . .	. . . .	-0.34	-0.00	. . . .	. . . .
G9	8920.29	-0.00	-0.15	0.01	-0.28	0.07	0.01	. . . .
SG9	8911.38	. . . .	. . . .	. . . .	-0.37	-0.00	. . . .	. . . .
G10	8904.15	-0.01	-0.11	0.01	-0.29	0.08	0.02	. . . .
SG10	8900.79	. . . .	. . . .	. . . .	-0.35	-0.01	. . . .	. . . .
G11	8897.67	0.00	-0.07	0.05	-0.24	0.10	0.06	. . . .
SG11	8896.63	. . . .	. . . .	. . . .	-0.08	-0.01	. . . .	. . . .
G12	8916.99	-0.01	-0.01	0.01	. . . .	0.07	0.03	. . . .
SG12	8929.77	-0.07	. . . .	. . . .	-0.04	-0.00	. . . .	. . . .
G13	8939.73	-0.01	-0.03	0.02	0.05	0.05	0.02	. . . .
SG13	8949.34	-0.06	. . . .	. . . .	-0.02	-0.00	. . . .	. . . .
G14	8956.60	-0.00	-0.01	0.01	-0.01	0.04	0.03	. . . .
SG14	8970.00	. . . .	. . . .	. . . .	-0.04	-0.01	. . . .	. . . .
G15	8986.45	-0.00	-0.04	0.02	0.05	0.05	0.04	. . . .
G16	9020.60	-0.00	0.15	0.04	0.09	0.07	0.06	. . . .
G17	9049.24	-0.01	-0.06	0.03	0.02	0.03	0.03	. . . .
G18	9068.76	0.00	0.04	0.02	0.10	0.02	0.04	. . . .
G19	9080.04	-0.01	0.01	0.01	-0.02	-0.00	0.02	. . . .
G20	9086.97	-0.01	0.08	0.01	0.05	0.00	0.02	. . . .
G21	9090.12	0.00	-0.05	0.01	0.01	0.01	0.03	. . . .
G22	9085.88	-0.00	0.24	0.01	0.24	0.00	0.04	. . . .
G23	9082.52	-0.01	0.32	0.01	0.08	0.00	0.03	. . . .
G24	9079.10	0.00	0.20	0.02	0.02	0.01	0.04	. . . .

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	7/13/1981 J + T : L	7/15/1981 J + T : T	8/17/1981 J + T : L	8/18/1981 USBM : T	8/19/1981 USBM : L	9/14/1981 J + T : L	9/25/1981 USBM : T
G25	9072.97	-0.01	0.02	0.01	-0.03	0.00	0.03	. . . .
G26	9066.66	-0.00	0.19	0.01	0.17	0.00	0.02	. . . .
G27	9058.06	-0.01	0.26	-0.00	0.07	-0.02	0.02	. . . .
G28	9050.08	-0.00	0.16	0.01	0.13	0.00	0.02	. . . .
G29	9042.11	-0.01	0.24	-0.00	0.08	0.00	0.01	. . . .
G30	9033.43	-0.01	0.14	0.00	0.05	0.01	0.02	. . . .
G31	9025.21	0.00	0.20	-0.02	0.06	-0.01	-0.02	. . . .
G32	9018.40	-0.01	0.06	-0.01	0.00	0.00	0.00	. . . .
G33	9006.13	-0.01	-0.13	-0.01	0.02	0.02	0.00	. . . .
G34	8995.21	0.00	0.03	-0.01	0.01	0.02	-0.00	. . . .
G35	8981.85	-0.00	0.21	-0.03	0.00	0.01	-0.03	. . . .
SG35	8974.89	. . . .	. . . .	. . . .	0.01	-0.00	. . . .	. . . .
G36	8964.21	-0.01	0.05	-0.03	0.00	0.02	-0.03	. . . .
SG36	8956.26	. . . .	. . . .	. . . .	-0.01	-0.00	. . . .	. . . .
G37	8945.34	-0.00	0.15	-0.02	0.01	0.03	-0.03	. . . .
SG37	8937.39	. . . .	. . . .	. . . .	0.01	-0.00	. . . .	. . . .
G38	8930.39	-0.01	0.04	-0.03	0.00	0.02	-0.04	. . . .
SG38	8923.44	. . . .	. . . .	. . . .	-0.07	-0.00	. . . .	. . . .
G39	8916.86	-0.01	0.06	-0.01	0.03	0.05	-0.01	. . . .
SG39	8913.78	. . . .	. . . .	. . . .	-0.04	-0.01	. . . .	. . . .
G40	8908.02	-0.01	-0.13	-0.01	0.02	0.06	-0.01	. . . .
SG40	8902.15	. . . .	. . . .	. . . .	-0.01	0.00	. . . .	. . . .
G41	8892.67	-0.01	0.06	-0.02	0.00	0.04	-0.03	. . . .
SG41	8886.58	. . . .	. . . .	. . . .	0.03	0.00	. . . .	. . . .
G42	8877.43	-0.01	-0.23	-0.02	0.03	0.04	-0.03	. . . .
SG42	8872.97	. . . .	. . . .	. . . .	0.00	0.00	. . . .	. . . .
G43	8863.93	-0.01	0.12	-0.02	0.01	0.06	-0.02	. . . .
SG43	8861.41	. . . .	. . . .	. . . .	-0.06	-0.00	. . . .	. . . .
G44	8858.04	-0.00	0.01	-0.02	-0.01	0.06	-0.02	. . . .
SG44	8859.48	-0.07	. . . .	. . . .	-0.07	-0.00	. . . .	. . . .
G45	8859.54	0.00	0.22	-0.01	-0.02	0.06	-0.01	. . . .
G46	8872.66	-0.00	-0.26	-0.03	-0.04	0.04	-0.04	. . . .
G47	8884.46	-0.01	-0.07	-0.03	0.01	0.05	-0.03	. . . .
G48	8898.13	-0.01	-0.10	-0.03	-0.05	0.05	-0.03	. . . .
G49	8913.06	-0.00	0.01	-0.02	-0.02	0.05	-0.02	. . . .
G50	8927.28	-0.01	-0.07	-0.01	-0.59	0.06	0.01	. . . .

DEEP CREEK SUBSIDENCE PROJECT LISTING / ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/13/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
DC1	8994.68	0.00	....	....	....	....	....	....
DC2	8955.53	0.00	....	....	....	....	....	....
BM1	9025.91	0.00	-0.00	0.00	0.00	0.00	0.00	0.00
BM2	9159.51	1.49	1.49	....	4.56	4.65	....	4.89
BM3	9188.67	3.25	....	....	3.93	4.01	....	4.07
BM4	9104.14	0.00	....	....	0.00	0.00	....	0.00
BM5	9096.70	0.00	0.00	....	0.00	0.00	....	0.00
BM6	8943.36	0.00	0.04	....	0.33	0.38	....	0.38
BM7	9106.90	0.00	....	....	0.00	0.00	....	0.00
BM8	8980.15	0.00	....	....	-0.00	....	....	....
BM9	8961.81	0.00	....	....	0.00	0.00	....	0.00
BM10	9067.32	0.00	....	0.00	....	....	....	....
NCP0	....	....	....	....	....	....	....	....
NCP1	....	....	....	....	....	....	....	....
NCP2	....	....	....	....	....	....	....	....
NCP3	....	....	....	....	....	....	....	....
NCP4	....	....	....	....	....	....	....	....
NCP5	....	....	....	....	....	....	....	....
NCP6	....	....	....	....	....	....	....	....
NCP7	....	....	....	....	....	....	....	....
NCP8	....	....	....	....	....	....	....	....
NCP9	....	....	....	....	....	....	....	....
C1	8998.65	0.13	....	0.08	....	....	0.10	....
C2	8988.15	0.09	....	0.09	....	....	0.12	....
C3	8978.20	0.16	....	0.10	....	....	0.14	....
C4	8971.85	0.09	....	0.12	....	....	0.12	....
C5	8970.99	0.20	....	0.16	....	....	0.20	....
C6	8976.02	0.10	....	0.12	....	....	0.16	....
C7	8984.61	0.19	....	0.18	....	....	0.22	....
C8	8990.13	0.14	....	0.20	....	....	0.22	....
C9	8993.46	0.27	....	0.23	....	....	0.26	....
C10	8997.67	0.29	....	0.25	....	....	0.31	....
C11	9001.98	0.45	....	0.38	....	....	0.43	....
C12	9009.04	0.55	....	0.59	....	....	0.64	....
C13	9017.60	1.42	....	1.51	....	....	1.62	....
C14	9030.52	1.54	....	1.67	....	....	1.81	....
C15	9054.08	1.75	....	1.90	....	....	2.04	....
C16	9076.04	1.93	....	2.10	....	....	2.25	....
C17	9096.46	2.33	....	2.46	....	....	2.61	....
C18	9120.88	2.54	....	2.67	....	....	2.82	....

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/12/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
C19	9137.26	2.77	....	2.88	....	....	2.99	....
C20	9152.74	2.86	....	2.98	....	....	3.09	....
C21	9166.18	2.91	....	3.04	....	....	3.13	....
C22	9173.53	2.93	....	3.15	....	....	3.21	....
C23	9175.25	2.92	....	3.23	....	....	3.28	....
C24	9170.81	2.91	....	3.26	....	....	3.32	....
C25	9170.54	....	....	3.25	....	....	3.32	....
C26	9181.64	3.09	....	3.22	....	....	3.30	....
C27	9188.24	3.06	....	3.26	....	....	3.30	....
C28	9187.66	2.98	....	3.21	....	....	3.25	....
C29	9189.62	2.91	....	3.17	....	....	3.21	....
C30	9190.13	2.90	....	3.24	....	....	3.27	....
C31	9193.08	2.70	....	3.06	....	....	3.07	....
C32	9188.37	2.57	....	2.99	....	....	3.01	....
C33	9187.61	2.36	....	2.74	....	....	2.74	....
C34	9183.94	2.05	....	2.16	....	....	2.19	....
C35	9179.18	1.60	....	1.55	....	....	1.58	....
C36	9178.90	1.37	....	1.26	....	....	1.27	....
C37	9178.13	1.01	....	0.80	....	....	0.81	....
C38	9175.22	0.88	....	0.64	....	....	0.66	....
C39	9170.81	0.72	....	0.48	....	....	0.48	....
C40	9162.20	0.64	....	0.30	....	....	0.32	....
C41	9148.84	0.44	....	0.23	....	....	0.24	....
C42	9135.52	0.45	....	0.13	....	....	0.16	....
C43	9125.00	0.76	....	0.05	....	....	0.06	....
C44	9117.09	0.23	....	-0.04	....	....	-0.04	....
C45	9105.25	0.09	....	-0.09	....	....	-0.08	....
C46	9084.48	0.22	....	-0.10	....	....	-0.06	....
C47	9065.21	0.25	....	0.02	....	....	0.03	....
C48	9046.81	0.12	....	-0.15	....	....	-0.11	....
C49	9028.02	0.15	....	-0.06	....	....	-0.04	....
C50	9004.20	0.15	....	-0.16	....	....	-0.08	....
P16	9203.57	1.75	....	1.66	....	....	1.69	....
P15	9197.23	2.02	....	1.95	....	....	1.99	....
P14	9194.67	2.27	....	2.29	....	....	2.32	....
P13	9191.28	2.47	....	2.74	....	....	2.79	....
P12	9183.72	3.22	....	3.76	3.69	3.79	3.83	3.84
P11	9180.58	3.31	....	4.04	3.96	4.06	....	4.11
P10	9176.25	3.35	....	4.20	4.12	4.22	....	4.28
P9	9171.03	3.25	....	4.36	4.29	4.39	....	4.47

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/13/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
P8	9165.59	2.97	2.95	4.44	4.42	4.47	. . . .	4.58
P7	9160.70	2.51	2.57	4.73	4.71	4.79	. . . .	4.91
P6	9159.07	1.91	1.86	4.77	4.74	4.81	. . . .	4.98
P5	9160.44	1.15	1.20	4.56	4.53	4.62	. . . .	4.82
P4	9157.80	0.92	0.86	4.29	4.26	4.35	. . . .	4.61
P3	9154.42	0.77	0.71	3.89	3.87	3.98	. . . .	4.33
P2	9151.12	0.46	0.51	3.11	3.09	3.21	. . . .	3.66
P1	9143.31	0.28	0.27	2.14	2.10	2.22	. . . .	2.79
P17	9129.72	. . . .	0.11	1.23	1.25	1.28	. . . .	1.82
P18	9114.29	. . . .	0.13	0.73	0.77	0.78	. . . .	1.29
P19	9100.43	. . . .	0.05	0.41	0.47	0.46	. . . .	0.85
P20	9089.13	. . . .	0.02	0.26	0.33	0.29	. . . .	0.59
P21	9074.91	. . . .	-0.01	0.16	0.19	0.16	. . . .	0.40
P22	9061.37	. . . .	-0.02	0.11	0.14	0.12	. . . .	0.30
P23	9048.42	. . . .	-0.03	0.06	0.11	0.08	. . . .	0.21
P24	9042.63	. . . .	-0.02	0.05	0.10	0.05	. . . .	0.15
P25	9038.54	. . . .	-0.04	0.02	0.09	0.04	. . . .	0.09
SP25	9039.18	. . . .	. . . .	. . . .	0.02	-0.03	. . . .	0.01
P26	9036.75	. . . .	-0.05	0.01	0.07	0.03	. . . .	0.06
SP26	9036.84	. . . .	. . . .	. . . .	0.01	-0.03	. . . .	-0.03
P27	9035.61	. . . .	-0.04	0.02	0.08	0.03	. . . .	0.05
SP27	9033.56	. . . .	. . . .	. . . .	0.02	-0.02	. . . .	-0.01
P28	9027.03	. . . .	-0.04	0.01	0.07	0.03	. . . .	0.03
SP28	9020.71	. . . .	. . . .	. . . .	0.03	-0.02	. . . .	-0.03
SP29	9014.04	. . . .	. . . .	. . . .	0.03	-0.02	. . . .	-0.02
SP30	9007.47	. . . .	. . . .	. . . .	0.03	-0.02	. . . .	-0.03
SP31	9000.30	. . . .	. . . .	. . . .	0.03	-0.02	. . . .	-0.03
SP32	8991.51	. . . .	. . . .	. . . .	0.03	-0.01	. . . .	-0.04
SP33	8979.06	. . . .	. . . .	. . . .	0.03	-0.01	. . . .	-0.04
SP34	8966.51	. . . .	. . . .	. . . .	0.03	-0.01	. . . .	-0.04
SP35	8954.85	. . . .	. . . .	. . . .	0.04	-0.02	. . . .	-0.05
SP36	8945.07	. . . .	. . . .	. . . .	0.04	-0.02	. . . .	-0.05
SP37	8937.55	. . . .	. . . .	. . . .	0.07	-0.00	. . . .	-0.04
SP38	8932.96	. . . .	. . . .	. . . .	0.06	-0.01	. . . .	-0.05
SP39	8929.45	. . . .	. . . .	. . . .	0.06	-0.01	. . . .	-0.06
SP40	8926.20	. . . .	. . . .	. . . .	0.06	-0.01	. . . .	-0.06
SP41	8923.56	. . . .	. . . .	. . . .	0.06	-0.01	. . . .	-0.05
SP42	8922.57	. . . .	. . . .	. . . .	0.06	-0.01	. . . .	-0.06
SP43	8922.02	. . . .	. . . .	. . . .	0.06	0.01	. . . .	-0.06
SP44	8921.65	. . . .	. . . .	. . . .	0.06	-0.01	. . . .	-0.06

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/13/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
SP45	8921.35	....	....	....	0.06	-0.01	....	-0.07
D1	8960.18	0.13	....	0.02	....	....	0.12	....
D2	8953.04	0.10	....	0.06	....	....	0.16	....
D3	8949.27	0.18	....	0.08	....	....	0.17	....
D4	8949.94	0.12	....	0.11	....	....	0.21	....
D5	8957.29	0.22	....	0.13	....	....	0.21	....
D6	8967.44	0.24	....	0.15	....	....	0.25	....
D7	8975.26	0.17	....	0.15	....	....	0.23	....
D8	8983.90	0.32	....	0.22	....	....	0.30	....
D9	8990.92	0.43	....	0.44	....	....	0.52	....
D10	8999.20	0.66	....	0.63	....	....	0.71	....
D11	9007.03	1.10	....	1.28	....	....	1.38	....
D12	9016.69	1.69	....	1.82	....	....	1.95	....
D13	9029.19	1.70	....	1.91	....	....	2.06	....
A1	9015.87	1.04	....	1.16	....	....	1.28	....
A2	9014.25	1.02	....	1.25	....	....	1.38	....
A3	9009.87	1.26	....	1.41	....	....	1.56	....
A4	9004.22	1.18	....	1.34	....	....	1.49	....
A5	9001.00	0.52	....	0.58	....	....	0.65	....
A6	8998.65	0.62	....	0.60	....	....	0.69	....
A7	8993.71	0.55	....	0.60	....	....	0.70	....
A8	8991.47	0.49	....	0.47	....	....	0.58	....
B1	9173.78	0.74	....	0.62	....	....	0.61	....
B2	9170.78	0.79	....	0.64	....	....	0.63	....
B3	9158.29	0.80	....	0.73	....	....	0.72	....
B4	9141.32	0.75	....	0.65	....	....	0.65	....
B5	9124.50	0.75	....	0.67	....	....	0.68	....
B6	9111.43	0.61	....	0.56	....	....	0.59	....
B7	9095.66	0.62	....	0.63	....	....	0.65	....
E1	9008.16	....	-0.00	....	-0.01	-0.00	....	-0.01
E2	8997.85	....	-0.01	....	-0.01	0.02	....	-0.01
E3	8987.42	....	-0.01	....	-0.02	-0.00	....	-0.00
E4	8977.75	....	-0.02	....	-0.04	-0.03	....	-0.03
E5	8968.10	....	-0.01	....	-0.02	-0.01	....	-0.02
E6	8959.71	....	-0.01	....	-0.02	-0.03	....	-0.02
E7	8954.73	....	0.01	....	0.01	-0.00	....	0.01
E8	8957.98	....	0.00	....	-0.00	0.00	....	0.01
E9	8959.92	....	0.01	....	0.02	0.01	....	0.02
E10	8960.97	....	0.03	....	0.05	0.03	....	0.05
E11	8967.95	....	0.09	....	0.11	0.10	....	0.11

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/13/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
E12	8983.37	. . . .	0.25	. . . .	0.35	0.35	. . . .	0.38
E13	8993.84	. . . .	0.48	. . . .	0.62	0.64	. . . .	0.69
E14	9007.06	. . . .	1.32	. . . .	1.67	1.75	. . . .	1.88
E15	9029.96	. . . .	1.70	. . . .	2.09	2.18	. . . .	2.34
E16	9055.05	. . . .	1.89	. . . .	2.35	2.45	. . . .	2.61
E17	9076.10	. . . .	2.11	. . . .	2.61	2.71	. . . .	2.86
E18	9094.27	. . . .	2.35	. . . .	2.90	3.00	. . . .	3.15
E19	9104.22	. . . .	2.49	. . . .	3.12	3.21	. . . .	3.35
E20	9105.05	. . . .	2.61	. . . .	3.22	3.31	. . . .	3.48
E21	9118.34	. . . .	2.56	. . . .	3.38	3.46	. . . .	3.61
E22	9129.72	. . . .	2.52	. . . .	3.51	3.60	. . . .	3.75
E23	9140.18	. . . .	2.44	. . . .	3.66	3.73	. . . .	3.88
E24	9147.95	. . . .	2.33	. . . .	3.79	3.86	. . . .	4.01
E25	9154.02	. . . .	2.13	. . . .	3.92	3.99	. . . .	4.14
E26	9157.11	. . . .	1.96	. . . .	4.00	4.06	. . . .	4.20
E27	9159.69	. . . .	1.86	. . . .	4.10	4.16	. . . .	4.28
E28	9161.39	. . . .	1.77	. . . .	4.16	4.22	. . . .	4.33
E29	9159.70	. . . .	1.42	. . . .	3.89	3.95	. . . .	4.06
E30	9155.41	. . . .	1.33	. . . .	3.87	3.93	. . . .	4.02
E31	9148.90	. . . .	1.16	. . . .	3.76	3.82	. . . .	3.91
E32	9141.48	. . . .	0.97	. . . .	3.56	3.60	. . . .	3.68
E33	9134.71	. . . .	0.84	. . . .	3.31	3.35	. . . .	3.42
E34	9125.08	. . . .	0.65	. . . .	2.72	2.76	. . . .	2.82
E35	9116.50	. . . .	0.50	. . . .	1.98	2.02	. . . .	2.06
E36	9112.04	. . . .	0.37	. . . .	1.24	1.28	. . . .	1.32
E37	9105.12	. . . .	0.19	. . . .	0.73	0.76	. . . .	0.78
E38	9090.76	. . . .	0.09	. . . .	0.44	0.46	. . . .	0.47
E39	9075.68	. . . .	-0.02	. . . .	0.24	0.26	. . . .	0.26
E40	9065.14	. . . .	-0.00	. . . .	0.18	0.20	. . . .	0.20
E41	9051.25	. . . .	-0.05	. . . .	0.07	0.09	. . . .	0.10
E42	9040.70	. . . .	0.00	. . . .	0.12	0.12	. . . .	0.11
E43	9034.43	. . . .	-0.10	. . . .	-0.01	-0.01	. . . .	-0.01
E44	9031.28	. . . .	-0.07	. . . .	0.03	0.02	. . . .	0.01
E45	9025.88	. . . .	-0.09	. . . .	-0.00	-0.00	. . . .	-0.01
E46	9006.92	. . . .	-0.09	. . . .	-0.03	-0.04	. . . .	-0.05
E47	8988.15	. . . .	-0.09	. . . .	-0.02	-0.04	. . . .	-0.04
E48	8971.80	. . . .	-0.08	. . . .	-0.01	-0.06	. . . .	-0.06
E49	8951.26	. . . .	-0.05	. . . .	0.02	-0.06	. . . .	-0.07
E50	8942.68	. . . .	-0.03	. . . .	0.03	-0.05	. . . .	-0.05
F1	9023.07	. . . .	0.05	. . . .	0.07	-0.00	. . . .	-0.02

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES:

STATION NAME	BASE FILE	10/17/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
F2	9008.49	. . . .	0.05	. . . .	0.08	0.01	. . . .	0.00
F3	8995.51	. . . .	0.05	. . . .	0.09	0.02	. . . .	0.00
F4	8982.79	. . . .	0.06	. . . .	0.10	0.04	. . . .	0.02
F5	8970.51	. . . .	0.04	. . . .	0.11	0.05	. . . .	0.03
F6	8956.47	. . . .	0.06	. . . .	0.13	0.07	. . . .	0.06
F7	8945.05	. . . .	0.06	. . . .	0.15	0.09	. . . .	0.07
F8	8931.96	. . . .	0.06	. . . .	0.16	0.10	. . . .	0.09
F9	8924.71	. . . .	0.09	. . . .	0.19	0.12	. . . .	0.12
F10	8926.09	. . . .	0.05	. . . .	0.19	0.11	. . . .	0.11
F11	8941.36	. . . .	0.07	. . . .	0.18	0.13	. . . .	0.13
F12	8955.26	. . . .	0.13	. . . .	0.27	0.23	. . . .	0.23
F13	8966.19	. . . .	0.25	. . . .	0.49	0.46	. . . .	0.47
F14	8978.04	. . . .	0.59	. . . .	1.11	1.18	. . . .	1.36
F15	9000.47	. . . .	0.88	. . . .	1.49	1.64	. . . .	1.93
F16	9026.33	. . . .	0.97	. . . .	1.72	1.94	. . . .	2.28
F17	9061.13	. . . .	1.09	. . . .	1.93	2.28	. . . .	2.79
F18	9081.04	. . . .	1.17	. . . .	2.13	2.66	. . . .	3.45
F19	9093.32	. . . .	1.27	. . . .	2.29	2.93	. . . .	4.02
F20	9099.94	. . . .	1.24	. . . .	2.27	2.88	. . . .	4.17
F21	9107.45	. . . .	1.11	. . . .	2.19	2.66	. . . .	4.12
F22	9114.79	. . . .	0.94	. . . .	2.10	2.51	. . . .	3.90
F23	9120.92	. . . .	0.73	. . . .	1.97	2.19	. . . .	3.55
F24	9124.11	. . . .	0.56	. . . .	1.88	2.03	. . . .	3.19
F25	9125.36	. . . .	0.46	. . . .	1.83	1.93	. . . .	2.86
F26	9126.82	. . . .	0.38	. . . .	1.71	1.77	. . . .	2.53
F27	9137.33	. . . .	0.22	1.68	1.70	1.72	. . . .	2.26
F28	9143.67	. . . .	0.14	. . . .	1.63	1.65	. . . .	2.06
F29	9142.21	. . . .	0.10	. . . .	1.57	1.57	. . . .	1.89
F30	9133.76	. . . .	0.11	. . . .	1.50	1.49	. . . .	1.75
F31	9121.28	. . . .	0.07	. . . .	1.37	1.36	. . . .	1.56
F32	9108.36	. . . .	0.06	. . . .	1.31	1.29	. . . .	1.46
F33	9093.02	. . . .	0.05	. . . .	1.18	1.15	. . . .	1.27
F34	9083.37	. . . .	0.04	. . . .	1.05	1.01	. . . .	1.11
F35	9075.64	. . . .	0.03	. . . .	0.84	0.79	. . . .	0.84
F36	9070.91	. . . .	0.03	. . . .	0.70	0.65	. . . .	0.68
F37	9057.40	. . . .	0.01	. . . .	0.52	0.46	. . . .	0.47
F38	9039.82	. . . .	0.00	. . . .	0.42	0.34	. . . .	0.35
F39	9027.80	. . . .	0.02	. . . .	0.36	0.30	. . . .	0.30
F40	9008.94	. . . .	-0.00	. . . .	0.29	0.21	. . . .	0.22
F41	8989.27	. . . .	0.01	. . . .	0.26	0.18	. . . .	0.19

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/15/1981 J + T : T	10/21/1981 J + T : L	07/21/1982 USBM : L	08/22/1982 J + T : L	07/20/1982 J + T : L	09/09/1982 USBM : L	08/26/1982 J + T : L
F42	8973.19	. . . .	-0.01	. . . .	0.19	0.11	. . . .	0.12
F43	8952.18	. . . .	-0.03	. . . .	0.17	0.07	. . . .	0.09
F44	8931.29	. . . .	-0.03	. . . .	0.15	0.06	. . . .	0.07
F45	8911.66	. . . .	-0.03	. . . .	0.13	0.04	. . . .	0.04
F46	8893.75	. . . .	-0.04	. . . .	0.13	0.05	. . . .	0.05
F47	8889.64	. . . .	-0.04	. . . .	0.08	-0.01	. . . .	-0.01
G1	9017.27	. . . .	-0.00	. . . .	0.04	-0.02	. . . .	-0.02
G2	9010.00	. . . .	-0.01	. . . .	0.06	-0.01	. . . .	-0.02
G3	8996.96	. . . .	-0.00	. . . .	0.07	0.01	. . . .	-0.00
G4	8986.77	. . . .	-0.02	. . . .	0.07	-0.00	. . . .	-0.01
G5	8979.31	. . . .	-0.01	. . . .	0.07	0.01	. . . .	-0.01
SG5	8974.82	. . . .	. . . .	. . . .	0.03	-0.03	. . . .	-0.05
G6	8968.83	. . . .	-0.02	. . . .	0.08	0.02	. . . .	-0.00
SG6	8964.78	. . . .	. . . .	. . . .	0.03	-0.02	. . . .	-0.05
G7	8957.86	. . . .	-0.02	. . . .	0.08	0.03	. . . .	-0.00
SG7	8951.87	. . . .	. . . .	. . . .	0.01	-0.03	. . . .	-0.06
G8	8945.86	. . . .	-0.03	. . . .	0.08	0.04	. . . .	-0.00
SG8	8931.87	. . . .	. . . .	. . . .	0.03	-0.02	. . . .	-0.05
G9	8920.29	. . . .	-0.02	. . . .	0.11	0.07	. . . .	0.04
SG9	3911.38	. . . .	. . . .	. . . .	0.02	-0.00	. . . .	-0.04
G10	8904.15	. . . .	-0.02	. . . .	0.12	0.09	. . . .	0.06
SG10	8900.79	. . . .	. . . .	. . . .	0.00	-0.03	. . . .	-0.07
G11	8897.67	. . . .	0.01	. . . .	0.15	0.13	. . . .	0.10
SG11	8896.63	. . . .	. . . .	. . . .	0.08	0.07	. . . .	0.04
G12	8916.99	. . . .	-0.02	. . . .	0.19	0.17	. . . .	0.17
SG12	8929.77	. . . .	. . . .	. . . .	0.12	0.13	. . . .	0.15
G13	8939.73	. . . .	-0.03	. . . .	0.26	0.27	. . . .	0.32
SG13	8949.34	. . . .	. . . .	. . . .	0.28	0.32	. . . .	0.47
G14	8956.60	. . . .	-0.02	. . . .	0.39	0.47	. . . .	0.71
SG14	8970.00	. . . .	. . . .	. . . .	0.37	0.48	. . . .	0.78
G15	8986.45	. . . .	-0.02	. . . .	0.49	0.61	. . . .	0.94
G16	9020.60	. . . .	0.00	. . . .	0.50	0.64	. . . .	1.02
G17	9049.24	. . . .	-0.01	. . . .	0.47	0.66	. . . .	1.07
G18	9068.76	. . . .	-0.01	. . . .	0.49	0.70	. . . .	1.20
G19	9080.04	. . . .	-0.02	. . . .	0.43	0.67	. . . .	1.30
G20	9086.97	. . . .	-0.02	. . . .	0.36	0.58	. . . .	1.35
G21	9090.12	. . . .	-0.00	. . . .	0.31	0.46	. . . .	1.30
G22	9085.88	. . . .	-0.01	. . . .	0.25	0.34	. . . .	1.12
G23	9082.52	. . . .	-0.02	. . . .	0.21	0.26	. . . .	0.92
G24	9079.10	. . . .	-0.01	. . . .	0.19	0.20	. . . .	0.72

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	10/13/1981 J + T : T	10/21/1981 J + T : L	06/21/1982 USBM : L	06/22/1982 J + T : L	07/20/1982 J + T : L	08/09/1982 USBM : L	08/26/1982 J + T : L
G25	9072.97	. . . .	-0.02	. . . .	0.13	0.13	. . . .	0.52
G26	9066.66	. . . .	-0.02	. . . .	0.15	0.13	. . . .	0.38
G27	9058.06	. . . .	-0.03	. . . .	0.13	0.10	. . . .	0.27
G28	9050.08	. . . .	-0.02	. . . .	0.12	0.08	. . . .	0.19
G29	9042.11	. . . .	-0.02	. . . .	0.09	0.06	. . . .	0.11
G30	9033.43	. . . .	-0.02	. . . .	0.08	0.05	. . . .	0.07
G31	9025.21	. . . .	-0.03	. . . .	0.06	0.02	. . . .	0.03
G32	9018.40	. . . .	-0.03	. . . .	0.05	0.02	. . . .	0.01
G33	9006.13	. . . .	-0.01	. . . .	0.03	0.01	. . . .	-0.01
G34	8995.21	. . . .	-0.04	. . . .	0.03	0.01	. . . .	-0.02
G35	8981.85	. . . .	-0.05	. . . .	0.05	0.00	. . . .	-0.04
SG35	8974.89	. . . .	. . . .	. . . .	0.01	-0.02	. . . .	-0.06
G36	8964.21	. . . .	-0.05	. . . .	0.06	0.01	. . . .	-0.04
SG36	8956.26	. . . .	. . . .	. . . .	0.02	-0.02	. . . .	-0.07
G37	8945.34	. . . .	-0.04	. . . .	0.07	0.02	. . . .	-0.03
SG37	8937.39	. . . .	. . . .	. . . .	-0.01	-0.05	. . . .	-0.09
G38	8930.39	. . . .	-0.06	. . . .	0.06	0.02	. . . .	-0.04
SG38	8923.44	. . . .	. . . .	. . . .	-0.05	-0.07	. . . .	-0.12
G39	8916.86	. . . .	-0.04	. . . .	-0.00	-0.03	. . . .	-0.08
SG39	8913.78	. . . .	. . . .	. . . .	-0.02	-0.06	. . . .	-0.12
G40	8908.02	. . . .	-0.04	. . . .	0.02	-0.01	. . . .	-0.06
SG40	8902.15	. . . .	. . . .	. . . .	-0.02	-0.06	. . . .	-0.12
G41	8892.67	. . . .	-0.06	. . . .	0.02	-0.03	. . . .	-0.09
SG41	8886.58	. . . .	. . . .	. . . .	-0.02	-0.08	. . . .	-0.13
G42	8877.43	. . . .	-0.07	. . . .	0.02	-0.04	. . . .	-0.10
SG42	8872.97	. . . .	. . . .	. . . .	-0.05	-0.10	. . . .	-0.16
G43	8863.93	. . . .	-0.03	. . . .	0.01	-0.06	. . . .	-0.12
SG43	8861.41	. . . .	. . . .	. . . .	-0.06	-0.13	. . . .	-0.19
G44	8858.04	. . . .	-0.04	. . . .	-0.00	-0.07	. . . .	-0.13
SG44	8859.48	. . . .	. . . .	. . . .	-0.09	-0.13	. . . .	-0.18
G45	8859.54	. . . .	-0.03	. . . .	0.01	-0.05	. . . .	-0.10
G46	8872.66	. . . .	-0.05	. . . .	-0.00	-0.06	. . . .	-0.12
G47	8884.46	. . . .	-0.03	. . . .	-0.01	-0.07	. . . .	-0.14
G48	8898.13	. . . .	-0.03	. . . .	0.02	-0.04	. . . .	-0.11
G49	8913.06	. . . .	-0.03	. . . .	0.03	-0.03	. . . .	-0.09
G50	8927.28	. . . .	-0.01	. . . .	0.06	-0.06	. . . .	-0.11

DEER CREEK SUBSIDENCE PROJECT LISTING - ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES: 09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
DC1	8994.68	. . . .	. . . .	. . . .
DC2	8955.53	. . . .	. . . .	. . . .
BM1	9025.91	0.00	0.00	0.00
BM2	9159.51	5.10	5.16	5.31
BM3	9188.67	4.17	4.17	4.30
BM4	9104.14	0.00	0.00	-0.07
BM5	9096.70	0.00	0.00	-0.11
BM6	8943.36	0.45	0.52	0.52
BM7	9106.90	0.00	0.00	-0.08
BM8	8980.15	. . . .	. . . .	-0.03
BM9	8961.81	-0.07	0.00	-0.09
BM10	9067.32	. . . .	. . . .	. . . .
NCP0	. . . .	. . . .	. . . .	. . . .
NCP1	. . . .	. . . .	. . . .	. . . .
NCP2	. . . .	. . . .	. . . .	. . . .
NCP3	. . . .	. . . .	. . . .	. . . .
NCP4	. . . .	. . . .	. . . .	. . . .
NCP5	. . . .	. . . .	. . . .	. . . .
NCP6	. . . .	. . . .	. . . .	. . . .
NCP7	. . . .	. . . .	. . . .	. . . .
NCP8	. . . .	. . . .	. . . .	. . . .
NCP9	. . . .	. . . .	. . . .	. . . .
C1	8998.65	. . . .	. . . .	0.11
C2	8968.15	. . . .	. . . .	0.13
C3	8978.20	. . . .	. . . .	0.14
C4	8971.85	. . . .	. . . .	0.17
C5	8970.99	. . . .	. . . .	0.20
C6	8976.02	. . . .	. . . .	0.17
C7	8984.61	. . . .	. . . .	0.22
C8	8990.13	. . . .	. . . .	0.23
C9	8993.46	. . . .	. . . .	0.28
C10	8997.67	. . . .	. . . .	0.33
C11	9001.98	. . . .	. . . .	0.44
C12	9008.04	. . . .	. . . .	0.69
C13	9017.60	. . . .	. . . .	1.75
C14	9030.62	. . . .	. . . .	1.98
C15	9054.08	. . . .	. . . .	2.23
C16	9076.04	. . . .	. . . .	2.49
C17	9096.46	. . . .	. . . .	2.90
C18	9120.58	. . . .	. . . .	3.16

DEER CREEK SUBSIDENCE PROJECT LISTIN F ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
C19	9137.26	. . . .	. . . .	3.35
C20	9152.74	. . . .	. . . .	3.42
C21	9166.18	. . . .	. . . .	3.44
C22	9173.53	. . . .	. . . .	3.51
C23	9175.25	. . . .	. . . .	3.56
C24	9170.81	. . . .	. . . .	3.57
C25	9170.54	. . . .	. . . .	3.55
C26	9181.64	. . . .	. . . .	3.50
C27	9188.24	. . . .	. . . .	3.47
C28	9187.66	. . . .	. . . .	3.47
C29	9189.62	. . . .	. . . .	3.40
C30	9190.13	. . . .	. . . .	3.46
C31	9193.08	. . . .	. . . .	3.25
C32	9188.37	. . . .	. . . .	3.18
C33	9187.61	. . . .	. . . .	2.89
C34	9183.94	. . . .	. . . .	2.33
C35	9179.18	. . . .	. . . .	1.70
C36	9178.90	. . . .	. . . .	1.36
C37	9178.13	. . . .	. . . .	0.88
C38	9175.22	. . . .	. . . .	0.71
C39	9170.81	. . . .	. . . .	0.51
C40	9162.20	. . . .	. . . .	0.35
C41	9148.84	. . . .	. . . .	0.26
C42	9135.52	. . . .	. . . .	0.19
C43	9125.00	. . . .	. . . .	0.06
C44	9117.09	. . . .	. . . .	-0.02
C45	9105.25	. . . .	. . . .	-0.07
C46	9084.48	. . . .	. . . .	-0.04
C47	9065.21	. . . .	. . . .	0.04
C48	9046.81	. . . .	. . . .	-0.10
C49	9028.02	. . . .	. . . .	-0.01
C50	9004.20	. . . .	. . . .	-0.09
P16	9203.57	. . . .	. . . .	1.76
P15	9197.23	. . . .	. . . .	2.09
P14	9194.67	. . . .	. . . .	2.45
P13	9191.28	. . . .	. . . .	2.94
P12	9183.72	3.94	3.93	4.08
P11	9180.58	4.22	4.22	4.36
P10	9176.25	4.40	4.40	4.55
P9	9171.03	4.59	4.60	4.74

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
P8	9165.59	4.72	4.73	4.88
P7	9160.70	5.07	5.09	5.21
P6	9159.07	5.15	5.17	5.32
P5	9160.44	5.22	5.08	5.24
P4	9157.80	4.86	4.96	5.13
P3	9154.42	4.65	4.81	5.01
P2	9151.12	4.12	4.43	4.69
P1	9143.31	3.39	3.90	4.25
P17	9129.72	2.48	3.21	3.64
P18	9114.29	1.99	2.81	3.34
P19	9100.43	1.50	2.37	2.96
P20	9089.13	1.15	2.01	2.63
P21	9074.91	0.82	1.54	2.07
P22	9061.37	0.65	1.16	1.54
P23	9048.42	0.45	0.75	0.94
P24	9042.63	0.31	0.46	0.53
P25	9038.54	0.21	0.31	0.33
SP25	9039.18	0.12	0.19	0.20
P26	9036.75	0.15	0.22	0.21
SP26	9036.84	0.08	0.14	0.12
P27	9035.61	0.13	0.18	0.16
SP27	9033.56	0.06	0.11	0.08
P28	9027.03	0.11	0.14	0.11
SP28	9020.71	0.05	0.08	0.05
SP29	9014.04	0.05	0.08	0.04
SP30	9007.47	0.04	0.07	0.03
SP31	9000.30	0.04	0.07	0.02
SP32	8991.51	0.03	0.06	0.01
SP33	8979.06	0.03	0.06	0.01
SP34	8966.51	0.03	0.05	0.01
SP35	8954.85	0.01	0.04	-0.01
SP36	8945.07	0.03	0.04	0.00
SP37	8937.55	0.03	0.05	-0.00
SP38	8932.96	0.02	0.05	-0.01
SP39	8929.45	0.01	0.04	-0.02
SP40	8926.20	0.01	0.03	-0.02
SP41	8923.56	0.01	0.04	-0.02
SP42	8922.57	-0.01	0.02	-0.03
SP43	8922.02	-0.00	0.02	-0.03
SP44	8921.65	0.00	0.02	-0.03

DEER CREEK SUBSIDENCE PROJECT LISTIN F ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
SP45	8921.35	0.00	0.01	-0.04
D1	8960.18	. . . .	. . . .	0.08
D2	8953.04	. . . .	. . . .	0.10
D3	8949.27	. . . .	. . . .	0.14
D4	8949.94	. . . .	. . . .	0.18
D5	8957.29	. . . .	. . . .	0.18
D6	8967.44	. . . .	. . . .	0.21
D7	8975.26	. . . .	. . . .	0.22
D8	8983.90	. . . .	. . . .	0.28
D9	8990.92	. . . .	. . . .	0.51
D10	8999.20	. . . .	. . . .	0.72
D11	9007.03	. . . .	. . . .	1.48
D12	9016.69	. . . .	. . . .	2.10
D13	9029.19	. . . .	. . . .	2.22
A1	9015.87	. . . .	. . . .	1.40
A2	9014.25	. . . .	. . . .	1.51
A3	9009.87	. . . .	. . . .	1.69
A4	9004.22	. . . .	. . . .	1.62
A5	9001.00	. . . .	. . . .	0.69
A6	8998.65	. . . .	. . . .	0.73
A7	8993.71	. . . .	. . . .	0.76
A8	8991.47	. . . .	. . . .	0.64
B1	9173.78	. . . .	. . . .	0.66
B2	9170.78	. . . .	. . . .	0.69
B3	9158.29	. . . .	. . . .	0.79
B4	9141.32	. . . .	. . . .	0.72
B5	9124.50	. . . .	. . . .	0.75
B6	9111.43	. . . .	. . . .	0.64
B7	9095.06	. . . .	. . . .	0.72
E1	9003.16	-0.00	0.00	-0.01
E2	8997.85	-0.00	0.00	-0.01
E3	8957.42	0.01	0.00	-0.01
E4	8977.75	-0.02	-0.02	-0.04
E5	8968.10	-0.00	-0.00	-0.02
E6	8959.71	-0.00	0.00	-0.03
E7	8954.73	0.02	0.02	-0.00
E8	8957.98	0.03	0.03	0.00
E9	8959.92	0.04	0.04	0.02
E10	8960.97	0.07	0.07	0.06
E11	8957.90	0.14	0.14	0.13

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES : 09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
E12	8983.37	3.41	0.41	0.42
E13	8993.84	0.72	0.74	0.75
E14	9007.06	1.97	2.02	2.06
E15	9029.96	2.43	2.49	2.54
E16	9055.05	2.70	2.75	2.82
E17	9076.10	2.95	3.01	3.08
E18	9094.27	3.25	3.31	3.40
E19	9104.22	3.46	3.53	3.63
E20	9105.05	3.67	3.68	3.79
E21	9118.34	3.78	3.80	3.91
E22	9129.72	3.93	3.94	4.06
E23	9140.18	4.06	4.07	4.20
E24	9147.95	4.18	4.20	4.33
E25	9154.02	4.30	4.32	4.46
E26	9157.11	4.36	4.39	4.53
E27	9159.69	4.45	4.47	4.62
E28	9161.39	4.49	4.52	4.67
E29	9159.70	4.21	4.24	4.38
E30	9155.41	4.17	4.20	4.34
E31	9148.90	4.05	4.08	4.22
E32	9141.48	3.83	3.86	3.99
E33	9134.71	3.56	3.59	3.72
E34	9125.08	2.95	2.97	3.10
E35	9116.50	2.19	2.19	2.31
E36	9112.04	1.42	1.41	1.49
E37	9105.12	0.86	0.83	0.88
E38	9090.76	0.55	0.51	0.55
E39	9075.68	0.33	0.29	0.32
E40	9065.14	0.26	0.22	0.25
E41	9051.25	0.16	0.12	0.15
E42	9040.70	0.17	0.14	0.16
E43	9034.43	0.05	0.02	0.03
E44	9031.28	0.07	0.04	0.06
E45	9025.88	0.05	0.02	0.03
E46	9006.92	0.02	-0.01	0.00
E47	8988.15	0.02	-0.01	0.00
E48	8971.80	0.00	-0.02	-0.04
E49	8951.26	-0.01	-0.02	-0.02
E50	8942.68	0.02	0.00	0.00
F1	9023.07	-0.01	-0.02	-0.04

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION
BASE DATE DIFFERENCES BY DATES:

STATION NAME	BASE FILE	09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
F2	9008.49	-0.00	-0.00	-0.03
F3	8995.51	0.01	0.00	-0.02
F4	8982.79	0.03	0.02	-0.02
F5	8970.51	0.04	0.03	-0.01
F6	8956.47	0.06	0.05	0.02
F7	8945.05	0.08	0.07	0.04
F8	8931.96	0.09	0.09	0.06
F9	8924.71	0.12	0.11	0.08
F10	8926.09	0.11	0.10	0.07
F11	8941.36	0.13	0.12	0.11
F12	8955.26	0.24	0.24	0.21
F13	8966.19	0.50	0.50	0.49
F14	8978.04	1.45	1.50	1.53
F15	9000.47	2.05	2.13	2.18
F16	9026.33	2.40	2.50	2.55
F17	9061.13	2.93	3.03	3.10
F18	9081.04	3.62	3.74	3.82
F19	9093.32	4.23	4.36	4.44
F20	9099.94	4.42	4.58	4.67
F21	9107.45	4.44	4.63	4.74
F22	9114.79	4.31	4.56	4.68
F23	9120.92	4.08	4.40	4.55
F24	9124.11	3.81	4.22	4.40
F25	9125.36	3.53	4.05	4.28
F26	9128.82	3.19	3.81	4.10
F27	9137.33	2.83	3.52	3.89
F28	9143.67	2.53	3.25	3.68
F29	9142.21	2.27	2.95	3.43
F30	9133.76	2.05	2.64	3.13
F31	9121.26	1.80	2.28	2.72
F32	9108.36	1.64	2.02	2.38
F33	9093.02	1.42	1.70	1.97
F34	9083.37	1.22	1.43	1.60
F35	9075.64	0.92	1.06	1.14
F36	9070.91	0.73	0.81	0.84
F37	9057.40	0.51	0.55	0.54
F38	9039.82	0.37	0.40	0.36
F39	9027.80	0.31	0.34	0.30
F40	9008.94	0.23	0.26	0.20
F41	8989.27	0.20	0.23	0.18

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

BASE DATE DIFFERENCES BY DATES :

STATION NAME	BASE FILE	09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
F42	8973.19	0.12	0.15	0.10
F43	8952.18	0.10	0.13	0.06
F44	8931.29	0.08	0.11	0.04
F45	8911.66	0.06	0.09	0.02
F46	8893.75	0.06	0.09	0.02
F47	8889.64	-0.05	0.03	-0.05
G1	9017.27	-0.03	-0.02	-0.04
G2	9010.00	-0.02	-0.01	-0.03
G3	8996.96	0.00	0.01	-0.01
G4	8986.77	-0.01	0.00	-0.02
G5	8979.31	-0.00	0.01	-0.02
SG5	8974.82	-0.04	-0.03	-0.06
G6	8968.83	0.01	0.02	-0.00
SG6	8964.78	-0.04	-0.02	-0.05
G7	8957.86	0.01	0.03	-0.00
SG7	8951.87	-0.05	-0.03	-0.06
G8	8940.56	0.01	0.03	-0.00
SG8	8931.87	-0.04	-0.01	-0.04
G9	8920.29	0.05	0.08	0.04
SG9	8911.38	-0.02	0.00	-0.03
G10	8904.15	0.08	0.10	0.07
SG10	8900.79	-0.04	-0.01	-0.04
G11	8897.67	0.14	0.17	0.15
SG11	8906.63	0.08	0.12	0.09
G12	8916.99	0.21	0.25	0.23
SG12	8929.77	0.20	0.24	0.23
G13	8939.73	0.40	0.46	0.47
SG13	8949.34	0.58	0.68	0.73
G14	8956.60	0.86	1.02	1.13
SG14	8970.00	0.96	1.13	1.25
G15	8986.45	1.14	1.32	1.44
G16	9020.60	1.22	1.41	1.53
G17	9049.24	1.28	1.49	1.61
G18	9068.76	1.42	1.64	1.78
G19	9080.04	1.56	1.79	1.95
G20	9086.97	1.65	1.90	2.05
G21	9090.12	1.64	1.92	2.11
G22	9085.88	1.51	1.82	2.04
G23	9082.52	1.37	1.71	1.93
G24	9079.10	1.19	1.58	1.33

DEER CREEK SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE BASE FILE	DIFFERENCES BY DATES: 09/21/1982 J + T : L	10/13/1982 J + T : L	11/03/1982 J + T : L
G25	9072.97	0.97	1.40	1.67
G26	9066.68	0.79	1.26	1.58
G27	9058.06	0.58	1.04	1.39
G28	9050.08	0.43	0.81	1.17
G29	9042.11	0.30	0.58	0.91
G30	9033.43	0.22	0.42	0.68
G31	9025.21	0.14	0.28	0.47
G32	9018.40	0.10	0.20	0.33
G33	9006.13	0.07	0.13	0.21
G34	8995.21	0.05	0.10	0.14
G35	8981.85	0.02	0.06	0.08
SG35	8974.59	0.00	0.04	0.05
G36	8964.21	0.02	0.05	0.06
SG36	8956.26	-0.01	0.02	0.02
G37	8945.34	0.02	0.06	0.06
SG37	8937.39	-0.04	-0.00	-0.01
G38	8930.39	0.01	0.05	0.04
SG38	8923.44	-0.06	-0.04	-0.05
G39	8916.86	-0.03	0.00	-0.01
SG39	8913.78	-0.07	-0.03	-0.04
G40	8908.02	0.00	0.03	0.01
SG40	8902.15	-0.06	-0.03	-0.05
G41	8892.67	-0.03	0.00	-0.02
SG41	8886.58	-0.08	-0.05	-0.06
G42	8877.43	-0.05	-0.01	-0.04
SG42	8872.97	-0.11	-0.08	-0.10
G43	8863.93	-0.07	-0.03	-0.06
SG43	8861.41	-0.14	-0.10	-0.13
G44	8858.04	-0.09	-0.04	-0.08
SG44	8859.48	-0.13	-0.09	-0.12
G45	8859.54	-0.06	-0.01	-0.04
G46	8872.66	0.01	-0.03	-0.06
G47	8884.46	-0.01	-0.04	-0.07
G48	8898.13	0.02	-0.02	-0.06
G49	8913.06	0.03	-0.02	-0.04
G50	8927.28	0.01	-0.03	-0.06

WILBERG SUBSIDENCE PROJECT LISTING OF VATION

STATION NAME	BASE DATE 09/17/1980 USBM : L	DIFFERENCES BY DATES : 07/07/1981 USBM : L	09/23/1981 USBM : L	10/27/1981 USBM : L	07/12/1982 USBM : L
P2	9638.13	0.00	0.00	. . . .	0.00
BM2	9282.42	0.00	0.00	. . . .	0.00
BM8	. . . .	. . . .	. . . .	. . . .	. . . .
BM9	. . . .	. . . .	. . . .	. . . .	. . . .
BM10	. . . .	. . . .	. . . .	. . . .	. . . .
B1	9637.48	0.01	0.01	. . . .	. . . .
B2	9637.40	0.00	0.03	0.03	0.04
B3	9636.68	-0.00	0.05	0.04	0.05
B4	9635.25	0.00	0.09	0.08	0.09
B5	9633.91	-0.01	0.12	0.11	0.13
B6	9632.56	0.00	0.14	0.14	0.16
B7	9631.13	-0.01	0.17	0.17	0.18
B8	9626.92	0.00	0.18	0.17	0.18
B9	9624.58	-0.01	0.18	0.16	0.16
B10	. . . .	. . . .	. . . .	. . . .	. . . .
B11	. . . .	. . . .	. . . .	. . . .	. . . .
B12	. . . .	. . . .	. . . .	. . . .	. . . .
B13	. . . .	. . . .	. . . .	. . . .	. . . .
A1	9647.02	0.01	-0.03	-0.03	-0.04
A2	9645.81	-0.02	-0.02	-0.02	-0.03
A3	9644.09	-0.00	-0.01	-0.01	-0.01
A4	9640.17	-0.01	0.03	0.02	0.03
A5	9636.54	-0.02	0.05	0.04	0.05
A6	9633.89	0.00	0.09	0.08	0.09
A7	9633.23	0.01	0.11	0.10	0.11
A8	9632.33	0.00	0.14	0.13	0.15
A9	9632.49	0.02	0.15	0.13	0.15
A10	9630.70	0.00	0.16	0.16	0.16
A11	9629.99	0.01	0.16	0.16	0.18
A12	9628.88	0.01	0.39	0.40	0.40
A13	9627.27	-0.01	0.17	0.16	0.17
A14	9624.34	0.00	0.13	0.16	0.17
A15	9621.75	0.01	0.12	0.13	0.15
A16	9617.33	-0.00	0.10	0.11	0.10
A17	9533.08	-0.02	0.01	. . . .	0.12
A18	9459.85	-0.00	-0.01	. . . .	0.08
A19	9400.86	-0.01	0.00	. . . .	0.06
A20	9366.92	-0.01	0.00	. . . .	0.02
A21	9331.97	-0.01	0.02	. . . .	0.01
A22	9308.38	0.01	0.02	. . . .	0.01

WILBERG SUBSIDENCE PROJECT LISTING OF ELEVATION

STATION NAME	BASE DATE 09/17/1980 USBM : L	DIFFERENCES BY DATES : 07/07/1981 USBM : L	09/23/1981 USBM : L	10/27/1981 USBM : L	07/12/1982 USBM : L
A23	9294.86	0.01	0.04	. . . .	-0.00
A24	9280.90	-0.01	0.04	. . . .	-0.00
A25	9242.48	0.01	0.02	. . . .	-0.05
A26	9191.45	-0.03	0.03	. . . .	-0.07
A27	9138.56	-0.01	0.02	. . . .	-0.07
A28	9083.71	0.01	0.04	. . . .	-0.10
M1	. . . .	. . . .	. . . .	. . . .	. . . .
M2	. . . .	. . . .	. . . .	. . . .	. . . .
M3	. . . .	. . . .	. . . .	. . . .	. . . .
M4	. . . .	. . . .	. . . .	. . . .	. . . .
M5	. . . .	. . . .	. . . .	. . . .	. . . .
M6	. . . .	. . . .	. . . .	. . . .	. . . .
M7	. . . .	. . . .	. . . .	. . . .	. . . .
M8	. . . .	. . . .	. . . .	. . . .	. . . .
M9	. . . .	. . . .	. . . .	. . . .	. . . .
M10	. . . .	. . . .	. . . .	. . . .	. . . .
M11	. . . .	. . . .	. . . .	. . . .	. . . .
M12	. . . .	. . . .	. . . .	. . . .	. . . .
M13	. . . .	. . . .	. . . .	. . . .	. . . .
M14	. . . .	. . . .	. . . .	. . . .	. . . .
M15	. . . .	. . . .	. . . .	. . . .	. . . .
M16	. . . .	. . . .	. . . .	. . . .	. . . .
M17	. . . .	. . . .	. . . .	. . . .	. . . .
M18	. . . .	. . . .	. . . .	. . . .	. . . .
M19	. . . .	. . . .	. . . .	. . . .	. . . .
M20	. . . .	. . . .	. . . .	. . . .	. . . .
M21	. . . .	. . . .	. . . .	. . . .	. . . .
M22	. . . .	. . . .	. . . .	. . . .	. . . .
M23	. . . .	. . . .	. . . .	. . . .	. . . .
M24	. . . .	. . . .	. . . .	. . . .	. . . .
M25	. . . .	. . . .	. . . .	. . . .	. . . .
M26	. . . .	. . . .	. . . .	. . . .	. . . .
M27	. . . .	. . . .	. . . .	. . . .	. . . .
M28	. . . .	. . . .	. . . .	. . . .	. . . .
M29	. . . .	. . . .	. . . .	. . . .	. . . .
M30	. . . .	. . . .	. . . .	. . . .	. . . .
M31	. . . .	. . . .	. . . .	. . . .	. . . .
M32	. . . .	. . . .	. . . .	. . . .	. . . .
M33	. . . .	. . . .	. . . .	. . . .	. . . .
M34	. . . .	. . . .	. . . .	. . . .	. . . .

WILBERG SUBSIDENCE PROJECT LISTING OF ELEVATION

STA. 11/03/1982
NAME J + T: L

M35	9230.45
M36	9243.70
M37	9255.45
M38	9263.71
M39	9264.41
M40	9243.58
M41	9217.04
M42	9194.32
M43	9183.41
M44	9172.23
M45	9158.45
M46	9141.68
M47	9130.52
M48	9122.11
M49	9115.36
M50	9112.43
M51	9110.94
M52	9109.45
M53	9109.29
M54	9112.42
M55	9114.62
M56	9117.71
M57	9124.15
M58	9127.08
M59	9129.68
M60	9131.91
M61	9133.01
R1	9200.67
R2	9197.80
R3	9195.77
R4	9191.81
R5	9187.47
R6	9183.68
R7	9180.01
R8	9176.15
R9	9172.18
R10	. . .
R11	. . .
R12	. . .
R13	. . .

WILBERG SUBSIDENCE PROJECT LISTING OF ELEVATION

STA. NAME	11/03/1982 J + T: L
R14	. . .
R15	. . .
R16	. . .
R17	. . .
R18	. . .
R19	. . .
R20	. . .
R21	. . .
R22	. . .
R23	. . .
R24	. . .
R25	. . .
R26	. . .
R27	. . .
R28	. . .
R29	. . .
R30	. . .
T1	9211.36
T2	9215.51
T3	9221.13
T4	9218.21
T5	9213.28
T6	9208.14
T7	9198.98
T8	9190.47
T9	9180.26
T10	9175.26
T11	. . .
T12	. . .
T13	. . .
T14	. . .
T15	. . .
T16	. . .
T17	. . .
T18	. . .
T19	. . .
T20	. . .
T21	. . .
T22	. . .
T23	. . .

WILBERG SUBSIDENCE PROJECT LISTING OF ELEVATION

STA. NAME	11/03/1982 J + T: L
T24	. . .
T25	. . .
T26	. . .
T27	. . .
T28	. . .
T29	. . .
T30	. . .
S1	9127.76
S2	9154.77
S3	9171.55
S4	9187.55
S5	9199.52
S6	9194.90
S7	9189.47
S8	9182.70
S9	9177.31
S10	. . .
S11	. . .
S12	. . .
S13	. . .
S14	. . .
S15	. . .
S16	. . .
S17	. . .
S18	. . .
S19	. . .
S20	. . .
S21	. . .
S22	. . .
S23	. . .
S24	. . .
S25	. . .
S26	. . .
S27	. . .
S28	. . .

WILBERG SUBSIDENCE PROJECT LISTING OF EL TION

STAG 11/03/1982
NAME J + T: L

A23	. . .
A24	. . .
A25	. . .
A26	. . .
A27	. . .
A28	. . .
M1	8970.56
M2	8963.06
M3	8956.46
M4	8949.61
M5	8943.65
M6	8939.43
M7	8936.42
M8	8939.32
M9	8945.36
M10	8953.57
M11	8962.71
M12	8970.50
M13	8977.44
M14	8984.99
M15	8994.94
M16	9006.27
M17	9024.21
M18	9053.06
M19	9072.43
M20	. . .
M21	. . .
M22	9137.31
M23	9149.44
M24	9157.71
M25	9165.09
M26	9174.52
M27	9185.53
M28	9192.06
M29	9198.51
M30	9204.04
M31	9208.60
M32	9213.44
M33	9217.44
M34	9221.99