Notes Ck'd by	Survey of	F. B. 3285 PG. 5
Map No.	JN Tape Std °F	
Office Work	Surveyed by	
Checked	Notes Date	
Date	Indexed	

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76F309S CE # 310 3-61

CARBON MESA

Notes Ck'd by	Survey of LANDSLIDE AREA
Map No.	JN 0021.92 Tape 201 Std 84 °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 7-18-66
Date	Indexed C. J. GALLI AUG 1 6 '66

F. B. 3285 PG. 7

J.N. 0021.92

CARBON MESA

LANDSLIDE AREA

HORIZONTAL MOVEMENT OBSERVATIONS

CONT. FROM F.B. 2633 - PAGES 54 - 72
SEE F.B. 2633 FOR VERTICAL CONTROL

JULY 18, 1966

PARTY

LIND
DOVER
DUERBECK
ALMANZAN
PETERSON

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78F3095 CE # 310 3-61

F. B. 3285 PG. 8

"B" LINE — DATE JULY, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES	
B-1	B-6		0+00.00	0.00		SEE F.B. 2633-28 FOR SKETCH	
		P.O.T	0+97.47	0.00		T=74° 101.84@21°55' =	97.47
			290.19				
		P.O.T.	3+84.66	0.00		T=74° 291.20@4°43' =	290.19
			67.05				
		B-2	4+51.71	0.06	L	T=74° 67.05 LEV. =	67.05
			110.63				
		B-3	5+62.34	0.03	L	T=72°	
			105.09				
		B-4	6+67.43	4.50	L	T=72°	

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"C" LINE DATE JULY 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES	
B-1	E-4		0+00.00	0.00		SEE F.B. 2633-28 FOR SKETCH	
		C-2	3+72.14	0.04	L	T=70° 273.75@1°16' =	273.66
						T=70° 39.23@20°-12' =	36.82
						T=70° 28.47 LEV. =	28.47
			233.20			T=70° 33.19 LEV. =	33.19
							372.14
		P.O.T.	6+07.34	0.00		T=74° 239.39@10°-43' =	235.20
			1.76				
		C-3	6+09.10	12.26	L	T=74° 1.76 LEV =	1.76

Notes Ck'd by
Map. No.
Office Work
Checked
Date

Survey of LANDSLIDE AREA
JN 0021.92 Tape 201 Std 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 7-18-66
Indexed C. J. GALLI

CARBON MESA

F.B. 3285 PG. 9

F. B. 3785 Pg. 10

"D"-LINE

DATE JULY 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES	
D-1A	E-4		0+00.00	0.00		SEE F.B. 2633-28 FOR SKETCH	
		D-1	0+28.11	0.00		T=68° 28.11 Lev	= 28.11
			14.56				
		P.O.T.	0+42.67	0.00		T=68° 14.56 Lev.	= 14.56
			120.38				
		D-2	1+63.05	8.78	L	T= 68° - 14.07 Lev	= -14.07
			14.07				
		P.O.T.	1+77.12	0.00		T= 68° 138.54@ 13°56	= 134.45
			182.70				
		D-3	3+59.82	4.98	L	T= 68° 191.85@ 17°45	= 182.70

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"E"- LINE

DATE JULY 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
E-1	E-4		0+00.00	0.00		SEE F.B. 2633 FOR SKETCH
		E-2	0+07.97	0.02	R	T= 68° 7 97 LEV. = 7.97
		E-3	179.88 1+87.85	0.32	L	T= 68° 215 19@ 33°-17'= 179.88

Notes Ck'd by
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Checked
Date

Survey of LANDSLIDE AREA
JN 2021.07 Tape 201 Std. 84 °F
Surveyed by C.K. LIND
Notes R. DOVER Date 7-18-66
Indexed C. J. GALLI

CARBON MESA

F. B. 3285 PG. 11

F. B. 3285 PG. 12

G-LINE

DATE JULY 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
E-1	G-5		0+00.00	0.00		SEE F.B. 2633-28 FOR SKETCH
		G-2	0+08.44 183.41	0.09	R	T= 68° 8.44 LEV. = 8.44
		G-3	1+91.85	1.86	R	T= 68° 201.63@ 24°-32' = 183.41

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"B" LINE DATE 1-10-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L./R.	NOTES	
B-1	B-6		0+00.00	0.00		REF FB 2633-28	
						T=74 101.84 @ 21.55 =	94.47
		POT	0+94.47	0.00			
			290.19				
		POT	3+84.66	0.00		T=74 291.20 @ 4°43' =	290.19
			67.05				
		B-2	4+51.71	0.06	L.	T=74 67.05 @ LEV =	67.05
			110.66				
		B-3	5+62.37	0.02	L.	T=70 117.39 @ 19°29' =	110.66
			105.44				
		B-4	6+67.81	4.64	L.	T=70 111.15 @ 18°27' =	105.44

Notes Ck'd by
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Office Work
Checked
Date

Survey of LAND SLIDE
JN 0021.92 Tape 184 Std 84 °F
Surveyed by LIND
Notes LIND Date 1-10-67
Indexed C. J. GALLI JAN 19 '67

CARBON MESA

F. B. 3285 PG. 13

F.B. 3285 PG. 14

"C" - LINE DATE 1-10-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES	
B-1	E-4		0+00.00	0.00		REF	F.B. 2633-28
						T=70	273.75 @ 1° 16' = 273.66
		C-2	3+72.14	0.04	L	"	39.23 @ 20° 12' = 36.82
						"	61.67 @ LEV = 61.66
							372.14
			235.33				
		POT	6+07.47	0.00		T=78	239.27 @ 10° 24' = 235.33
			1.77				
		C-3	6+09.24	12.83	L	T=78	1.77 @ LEV = 1.77

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"D" LINE 1-10-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R.	NOTES.
D-1A	E-4		0+00.00	0.00		REF: F.B. 2633-28
		POT	0+41.60	0.00		T=76° 41.60 @ LEV = 41.60
		D-2	121.97 1+63.57	9.25	L	T=76° 11.18 @ LEV = 11.18
		POT	1118 1+74.75	0.00		T=76° 137.00 @ 13.36 = 133.15
		D-3	185.80 3+60.55	5.19	L.	T=78° 194.09 @ 16° 48' = 185.80

Notes Ck'd by
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Office Work
Checked
Date

Survey of LANDSLIDE AREA
JN 0021.42 Tape 184 Std 84 °F
Surveyed by LIND
Notes LIND Date 1-10-67
Indexed C. J. GALLI

CARBON MESA

F. B. 3285 PG. 15

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"E" LINE 1-10-66

On Line From	On Line To	Sight on Station	Plus	Offset Amt	Offset L/R		Notes		
E-1	E-4		0+00.00	0.00		REF	FB 2633		
		E-2	0+07.98	0.02	R	T=76	7.98 @	Lev =	7.98
		E-3	180.09 1+88.07	0.34	L	T=76	215.72 @	33°24' =	180.09

F. B. 32225 PG 16

76F3095 CE # 310 3-61

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"G" LINE 1-10-66

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
E-1	G-5		0+00.00	0.00		REF FB 2633-28
		G-2	0+08.42	0.10	R	T=76 8.42 @ LEV = 8.42
		G-3	183.81 1+92.23	1.98	R	T=76 183.81 @ 24°22' = 183.81

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of LANDSLIDE
JN 00 21.92 Tape 164 Std 84 °F
Surveyed by LIND
Notes LIND Date 1-10-67
Indexed C. J. GALLI

CARBON MESA

F. B. 3285 PG. 17

Notes Ck'd by	Survey of Carbon Mesa Landslide
Map No.	JN 0021.92 Tape 196 Std 32 °F
Office Work	Surveyed by [illegible]
Checked	Notes Lind Date 7-25-67
Date	Indexed C. J. GALLI AUG 1 0 '67

F. B. 3295 PG. 19

J.N. 00 21.92

CARBON MESA LANDSLIDE AREA

HORIZONTAL MOVEMENT OBSERVATIONS

7-26-67

Lind

McCall

Falsey

Wilson

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76F3095 CE # 310 3-61

F. B. 3286 PG 20

"B" LINE

July 26, 1967

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES		
B-1	B-6		0+00.00	0.00		REF FB 2633-28		
		B-2	4+51.71	0.06	L	T=84	451.71 LEV = 451.71'	
		B-3	5+62.34	0.00		T=84	117.66 @ 14°54' =	113.63'
			106.46					
		B-4	6+68.80	5.38	L	T=84	BACK 1.47 LEV =	1.47
		P.O.T.	6+70.27	0.00		T=84	112.30 @ 16°54' =	107.93

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"C" LINE ✓ DATE 7-26-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L./R.	NOTES
B1	E-4		0+00.00	0.00		REF FB. 2633 -28 T=84 372.14 LEV= 372.14
		C-2	3+72.14	0.04	L.	
		POT	6+07.03	0.00		T=84 238.98 @ 10° 37' = 234.89'
		C-3	6+10.09	14.93	L.	T=84 3.06 AHEAD LEV= 3.06

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Lorraine Mesa Landscape F. B. 3285 PG. 21
JN 0021.92 Tape 1.96 Std 34 °F
Surveyed by Lind
Notes Lind Date 7-26-67
Indexed C. J. GALLI

F. B. 3226 PG 22

D- LINE ✓ 7-26-67

On Line From	On Line To	Sight on Station	Plus	Offset Amt	Offset L/R	Notes		
DIA	E-4		4400.00	0.00		Ref. FB	2633-23	
		D-2	1465.40	10.69	L.	T=84	Back 14.71	Lev. = 14.71
			14.71					
		POT	1480.11	0.00		T=84	184.41 @	17°24' = 180.11
			179.66					
		POT	3459.77	0.00		T=84	187.94 @	17°04' = 179.66
			3.21					
		D-3	3462.98	5.96	L.	T=84	3.21 Ahead	

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Notes Ck'd by	Survey of Gordon Mesa Landslide
Map No.	JN 902192 Tape 196 Std 24 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 7-26-67
Date	Indexed C. J. GALLI

F. B. 3285 PG. 23

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76F309S CE # 310 3-61

7-26-67

"E" LINE

ON LINE FROM	ON LINE TO	SHEET ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
E-1	E-4		0+00.00	0.00		REF	FB. 2633
		E-2	0+08.00	0.03	R	T=84	8.00 LEV = 8.00
		E-3	1+88.93	0.38	L	T=84	217.02 @ 33°31' = 180.75

F. B. 3285 Pg. 24

G - LINE ✓ 7-26-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	OFF SET L/R	NOTES
E-1	G-5		0+00.00	0.00		REF F.B. 2633-28
		G-2	0+08.44	0.11	R.	T=84 8.44 LEV = 8.44'
		G-3	1+93.66	2.30	R.	T=84 203.52 24° 27' = 155.22'

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Notes Ck'd by	Survey of CARBON MESA LANDSLIDE	F. B. 3265	PG. 25
Map No.	JN 0021.92 Tape 196 Std 22 °F		
Office Work	Surveyed by LIND		
Checked	Notes LIND Date 1-4-68		
Date	Indexed G. J. GALLI JAN 19 68		

JN 0021.92

CARBON MESA LANDSLIDE AREA

HORIZONTAL MOVEMENT OBSERVATIONS

1-4-68

LIND

STRAPER

SWANN

MUNOZ

FISHER

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76F309S CE#310 1-65

F. B. 3285 PG. 26

B- LINE 1-4-63

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	OFF SET L/R		NOTES
B-1	B-6		0+00.00	0.00		REF.	FB 2633-28
		B-2	4+51.71	0.06	L.	T=64	451.77 Lev. 451.71
		B-3	5+62.35	0.00		T=64	117.56 @ 19°44' = 110.64
		B-4	6+69.00	5.50	L.	T=64	112.14 @ 17°54' = 106.65

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ON LINE — C - LINE — 1-4-68

From	To	Sight on Station	Plus	Offset Amt	L/R		Notes
B-1	E-4		0+00.00	0.00		REF.	F.B. 2633-28
		C-2	3+72.14	0.04	L.	T=66	372.14 @ Lev = 372.14
		P.O.T.	6+06.98	0.00		T=66	239.00 @ Lev = 35.44
		C-3	6+10.17	15.21	L.	T=66	3.19 @ Lev = 3.19

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of [illegible]
JN [illegible] Tape [illegible] Std [illegible] °F
Surveyed by [illegible]
Notes [illegible] Date [illegible]
Indexed C. J. GALLI

F. B. [illegible] PG. [illegible]

F. B. 3265 PG. 28

D- LINE 1-4-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L./R.		NOTES		
DIA.	E-4		0+00.00	0.00		REF.	FB 2633 - 28		
		P.O.T.	0+16.84	0.00		T= 68	16.84 @	LEV =	16.84
		POT	1+41.05	0.00		T= 68	130.24 @	17°24' =	124.21
		D-2	24.80 1+65.85 7.76	11.03	L.	T= 68	- 8.76 LEV	= 8.76 = BACK	
		POT	1+74.61	0.00		T= 68	33.56 @	LEV =	33.56
		D-3	188.94 3+63.55	6.12	L.	T= 68	197.35 @	16°46' =	188.94

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E - LINE

1-4-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT	L/R		NOTES
E-1	E-4		0+00.00	0.00		REF	E.B. 2633
		E-2	0+07.97	0.02	R.	T=66° =	7.97 @ Lev = 7.97
		E-3	1+89.04	0.37	L.	T=66	216.92 @ 33°.24' = 131.07

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Carson Mesa Landslide
JN 6021.92 Tape 196 Std 24 °F
Surveyed by [illegible]
Notes Line Date 1-4-68
Indexed C. J. GALLI JAN 19 68

F. B. 3215 PG. 29

F. B. 3285 PG. 30

G- LINE 1-4-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES
E-1	G-5		0400.00	0.00		REF.	F.B. 2653-18
		G-2	0408.42	0.10	R.	T&L	8.42 Lat = 8.42
		G-3	1493.89	2.41	R.	T&L	203.39 @ 24°13' = 185.47

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Notes Ck'd by	Survey of CARBON MESA	F.B. 3285 Pg. 31
Map No.	JN 0021.92 Tape 145 Std 84 °F	
Office Work	Surveyed by LIND	
Checked	Notes LIND Date 7-11-68	
Date	Indexed C. J. GALLI JUL 23 68	

JN 0021.92

CARBON MESA LANDSLIDE AREA

HORIZONTAL MOVEMENT OBSERVATIONS

7-11-68

LIND
JONES
DIETZ
LOVE

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76P3095 CE #310 5-66

B- LINE

7-11-68

ON FROM	LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L./R.	NOTES
B-1	B-6		0+00.00	0.00		REF. FB. 2633-28
		B-2	4+51.71	0.06	L.	T=76 451.73 L=V= 451.71 ✓✓
		B-3	5+62.35	0.00		T=76 117.48 @ 19°38 = 114.64 ✓✓
		B-4	6+69.53	5.88	L.	T=76 107.19 L=V = 107.18 ✓

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C- LINE 7-11-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
B-1	E-4		0+00.00	0.00		REF FB 2633-28
		C-2	3+72.14	0.04	L.	T=76 372.16 @ LEV = 3+72.14 ✓
		POT	6+03.68	0.00		T=76 235.75 @ 10°50' = 231.54 ✓
		C-3	6+10.68	16.38	L.	T=76 7.00 LEV = 7.00 ✓

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Carson Mesa Sec. 4
JN 0021.92 Tape 1/2 Std 84 °F
Surveyed by LIND
Notes LIND Date 7-11-68
Indexed C. J. GALLI

F.B. 3285 Pg. 33

D- LINE

7-11-68

On Line From	To	Sight on Station	Plus	Off Set Amt	L/R	Notes			
D1A	E-4		0+00.00	0.00					
		P.O.T.	0+14.40	0.00		T= 90	14.40 @	Lev =	14.40
		Pot	1+44.41	0.00		T= 90	136.20 @	17°21' =	130.01
		D-2	22.61 1+67.02	11.92	L.	T=90	-10.69 @	Lev =	10.69
		Pot	10.69 1+77.71	0.00		T=90	33.30	Lev =	33.30
		D-3	187.30 3+65.01	6.58	L.	T=76	195.09 @	16°14' =	187.30

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76P3095 CE #310 5-66

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E - LINE 7-11-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
E-1	E-4		0+00.00	0.00		
		E-2	0+07.99	0.02	R.	T=80 7.99 @ Lev= 7.99
		E-3	1+89.55	0.38	L	T=80 216.69 @ 33°05' = 181.56

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Cameron Mesa
JN 021.92 Tape 145 Std 14 °F
Surveyed by Lind
Notes Lind Date 7-11-68
Indexed C. J. GALLI JUL 2 3 '68

F.B. 3285 Pg. 35

G - LINE 7-11-68

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES		
E-1	G-5		0+00.00	0.00				
		G-2	0+08.42	0.10	R.	T=80	8.42 @ LEV =	8.42'
		G-3	1+94.75	2.62	R.	T=80	204.16 @ 24°07' =	186.33'

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Notes Ck'd by	Survey of Carbon Mesa Landslide F.B. 3285 Pg. 37
Map No.	JN 0021.92 Tape 99 Std 24 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 1-16-69
Date	Indexed K.L. GALLI Jan 25 '69

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

1-16-69

LIND
JONES
McCALL
MUNOZ
FISHER LA

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76F3098 CE#310 9-67

FB 3286 Pg. 34

"B" LINE 1-14-49

ON LINE		Sight on Station	Pluss	Offset		Notes
From	To			Amt	L/R	
B-1	B-2		0+00	0.00		Temp = 66°
		B-2	4+51.71	0.46	L.	4+51.76 Lev = 451.71
		Pot	5+58.65	4.00		114.44 @ 20°51' = 106.94
						B-3 Not Recovered
		B-4	6+29.62	5.88	L	112.98 Lev = 110.97

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76F3098 CE#310 9-67

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"C" - LINE 1-16-69

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET Amt.		NOTES	
B-1	E-4		0+00	0.00		temp =	66°
		C-2	3+72.14	0.04	L	372.18 LEV =	372.14
		Pot	6+06.92 ~~0.00~~	0.00		239.08 @ 10°51' =	234.78
		C-3	6+10.79	16.75	L	3.87 LEV =	3.87

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Alexia Landslide
JN 4021-96 Tape 99 Std 84°F
Surveyed by Line
Notes Line 2 Date 1-16-69
Indexed [illegible]

CARBON

F.B. 3285 PG 39

F.B. 2265 PG 4

D- LINE

1-16-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES	
D-14	E-4		0+00	0.00		TEMP =	66°
		P.O.T.	0+14.40	0.00		14.40 @ LEV =	14.40
		POT	1+46.91	0.00		138.77 @ 17°18' =	132.51
		D-2	1+47.32	12.15	L	10.94 @ LEV. ~~5.15 @ LEV~~ =	10.94 ~~5.15~~
		POT	1+78.26	0.00		31.35 @ LEV =	31.35
		D-3	3+65.44	6.17	L	195.46 @ 16°43' =	187.18

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76F3098 CE#310 9-67

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"E-" LINE 1-16-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFF SET Amt	L/R	Notes
E-1	E-4		0+00	0.00		temp = 72°
						7.99 @ LEV = 7.99
		E-2	0+07.99	0.02	R	217.69 @ 33°23' = 181.76
		E-3	1+89.75	0.40	L	

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Garden Mesa Landslide
JN 2-1-72 Tape 99 Std 84 °F
Surveyed by LND
Notes
Indexed
Date 1-16-69

F B 3255 PG 44

F.B. 3285 Pg. 42

"G" - LINE 6-16-69

ON LINE From	ON LINE to	Sight on Station	Pluss	Offset Amt	Offset L/R		Notes
E-1	G-5						Temp = 72°
		G-2	0+08.43	0.09	R	8.43	Lev = 8.43
		G-3	1+95.03	2.66	R	205.06	Δ 24°29' = 186.6

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Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape 190 Std 84 °F
Office Work	Surveyed by PETERSON
Checked	Notes T.C.P. Date 7-69
Date	Indexed H. E. OTT JUL 17 '69

F. B. 3285 PG. 43

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

7-7-69

PETERSON T.C.
MANLEY
MUNOZ
BLANCHARD

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76F309S CE#310 3-68

F. B. 3285 PG 44

B LINE

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES
B1	B6					TO 70
		B-2	4+51.74	0.17	L	451.78 @ LEV = 451.74
		P.O.T.	5+64.33	0.00		118.55 @ 18°14' = 112.59
		B-4	6+73.27	9.00	L	108.95 @ LEV = 108.94

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"C" LINE

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES		
B-1	E-4					T=70		
		C-2	3+72.12	0.12	L	372.15	@ LEV =	372.12
		P.O.T.						
		C-3	6+14.22? 6+15.48	24.78	L	248.42	@ Vert. ∡ 11°34' =	243.36

Horiz ∡ missing? R.J.M. 10-6-69

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA LANDSLIDE
JN 002192 Tape 190 Std 84 °F
Surveyed by PETERSON
Notes T.K.R. Date 7-69
Indexed H. E. OTT JUL 17 '69

F.B. 3285 PG. 45

"D" LINE

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L / R	NOTES
D1A	E4		0+00.00			
		P.O.T.	0+14.42	0.02	R	14.42 @ LEV = 14.42
		P.O.T.	1+28.64	0.00		122.56 @ 21°15' = 114.22
		D-2	1+75.36	18.91	L	46.72 @ LEV = 46.72
		P.O.T.				
		D-3	3+77.15	10.34	L	207.58 @ 15°41' = 201.79 37

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"E" LINE 7- -69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES
E 1	E 4					
						8.08 @ LEV = 8.08
		E 2	0+08.08	0.00		
		E 3	1+93.11	0.60	L	222.25 @ 33°38' = 185.03

Notes Ck'd by
Map No.
Office Work
Checked
Date

CARBON MESA
Survey of ZANDSLIDE
JN 0021.92 Tape 190 Std 84 °F
Surveyed by PETERSON
Notes H.E. OTT Date 7-69
Indexed JUL 17 '69

F. B. 3285 PG. 47

"G" LINE 7-7-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES
E1	G5		0+00.00			T = 72
		G-2	0+08.48	0.15	R	8.48 @ LEV = = 8.48
		G-3	2+00.75	4.16	R	213.28 @ 25° 38' = 192.27

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Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape 190 Std. 84 °F
Office Work	Surveyed by LIND
Checked	Notes T.C.P. Date 9-69
Date	Indexed C. L. GALLI OCT 6 '69

F. B. 3285 PG. 49

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

9-29-69

LIND

PETERSON T.C.

SWANN

BLANCHARD

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16F309S CE#310 3-68

F.B. 3285 PG. 50

B LINE 9-29-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	L/R	NOTES
B1	B6					
						T=B4
		B-2	4+51.74	0.19	L	451.74 @ LEV = 451.74
		P.O.T.	5+64.34	0.00		119.37 @ 19°23' = 112.60
		B-4	6+73.35	9.08	L	{115.45 @ 18°39' = 109.39 109.39 @ 4°15'40" = 109.01}

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F3095 CE#310 3-68

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C LINE 9-29-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES		
B1	E4							
		C-2	3+72.14	0.04	L	372.14	@ T=84 LEV =	372.14
		P.O.T.						
		C-3	6+14.31	25.07	L	248.16 243.46	@ Vert ∡ 11°10' = @ 5°54'40" Horiz ∡ =	243.46 242.17

Notes Ck'd by
Map No.
Office Work
Checked
Date

CARBON MESA LANDSLIDE
Survey of
JN 0021.92 Tape 190 Std 84 °F
Surveyed by LIND
Notes T.C.P. Date 9-69
Indexed C.J. GALLI OCT 7 '69

F.B. 3285 PG. 51

F. B. 3285 PG. 52

D LINE E 9-29-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES
DIA	E4	P.O.T.	0+18.14	0.00		18.14 @ LEV T=84 = 18.14
		P.O.T.				
		D-2	1+75.72	19.29	L	165.33 @ 16°12' = 158.76 158.76 @ 6°58'50" = 157.58
		P.O.T.				
		D-3	3+76.33	10.52	L	Vert A 209.56 @ 15°19' = 202.12 202.12 @ 2°29'10" = 200.61 Hor. A

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E ✓ LINE 9-29-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R	NOTES
E1	E4					
		E 2	0+08.10	0.00		8.10 @ T= 84 LEV = 8.10
		E 3	1+93.25	0.52	L	222.08 @ 33°31' = 185.15

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Landslide
JN 002192 Tape 190 Std 84 °F
Surveyed by LHD
Notes T.L.P. Date 9-29-69
Indexed C.J. GALLI OCT 7 '69

Carson Hill

F. B. 3285 PG. 53

F. B. 3265 PG. 54

ON LINE FROM	ON LINE TO	G. SIGHT ON STATION	LINE PLUS	OFFSET AMOUNT	OFFSET L/R	9-29-69 NOTES
E1	G5					
		G 2	0+08.49	0.16	R	8.49 @ LEV = 8.49
		G 3	2+01.01	4.23	R	212.83 @ 25° 12' = 192.57 192.57 @ 1° 15' 30" = 192.52

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Profile No.	Notes Red	Plotted	Job No. 0021.92	Division No. 11	F.B. 3285 Pg. 63A
	Date	Date	Survey of CARBON MESA LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by LIND	Notes T.C.P.	Date 9-29-69
	Date	Date	Map No.	Indexed C.J. GALLI	Date OCT 7 '69

J.N. 0021.92

CARBON MESA LANDSLIDE

RE RUN OF LEVELS

CONT. FROM F.B. 2633-264

STATION	B.S.	H.I.	F.S.	ELEV.

9-29-69
SEPT 1969

LIND
PETERSON T.C.
SWANN
BLANCHARD

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
BM C.M. 3	2388	403704		401 316	BM.C.M.#3 ELEV. 401.316	F.B. 2633-15
E1			3207	400497		
G-2			3208	400496		
E-2			3277	400427		
Bm C.M. 3			2387	403 ~~705~~ 1.317		
B.M.C.M. 2	0412	357401		356989	B.M.C.M.#2 ELEV. 356.989	F.B. 2633-14
T.P.	0449	346700	11150	346251		
T.P.	0333	335760	11273	335427		
T.P.	1044	325501	11303	324457		
T.P.	5054	320647	9908	315593		
D-1A	0960	320189	1418	319229		
T.P.	0684	311673	9200	310989		
T.P.	6810	314822	3661	308012		
G-3	5969	315996	4795	310027		
T.P.	1063	306129	10930	305066		
T.P.	0398	294932	11595	294534		
T.P.	0480	283891	11521	283411		
E-3			5736	278155		
T.P.	4261	276277	11875	272016		
D-2			1999	274278		

F.B. 3286 Pg. 64A Job No. 0021.92 Division No. 11 Notes Red Plotted Profile
Survey of CARBON MESA LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. Checked Date No.
Indexed C.J. GALLI Date Date

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		276 277				
T.P.	1 755	267 119	10913	265 364		
T.P.	2519	259 377	10261	256 858		
T.P.	1627	249 295	11 709	247 668		
T.P.	4484	243 356	10423	238 872		
T.P.	1821	233678	11 499	231 857		
T.P.	4 822	227 849	10 651	223027		
D-3			8 828	219021		
T.P	1 982	222740	7091	220758		
T.P	0297	212 028	11009	211 731		
T.P.	0520	202 172	10376	201 652		
C-3			11 373	190 799		
T.P.	0 515	191 618	11 069	191 103		
T.P.	2 528	182 658	11488	180 130		
B-2			10120	172538		
T.P.	1 102	173 790	9 970	172 688		
T.P.	1532	163 597	11 725	162 065		
T.P.	1049	153 506	11 140	152457		
T.P.	1 019	145351	9 174	144 332		
T.P.	1439	135811	10 979	134 372		
T.P.			10917	124 894		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.92 Division No. 11 F.B. 3285 Pg 85
Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by LIND Notes T.C.P. Date 9-29-69
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date OCT 7 '69

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 2295 Pg. 56 | Job No. 0021.92 | Division No. 11 | Notes Red | Plotted | Profile
Survey of CARBON MESA LANDSLIDE | Date | Date | No.
Survey by LIND | Notes T.C.P. | Date | Notes Chkd. | Checked | X-Sec.
Indexed C.J. GALLI | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P	1425	126319		124894		
T.P.	1371	116422	11268	115051		
T.P.	1130	107037	10515	105907		
T.P	6700	102539	11198	95839		
B-4			8455	94084		
T.P.	0749	91539	11749	90790		
T.P.	0601	80400	11740	79799		
T.P.	0531	70022	10909	69491		
T.P.	0867	59933	10956	59066		
T.P.	0474	49485	10922	49011		
T.P.	1227	39644	11068	38417		
T.P.	0918	29425	11137	28507		
T.P.	2115	20340	11200	18225		
BM C.M.#1			6080	14260	BM C.M.#1 ELEV. 14,298	F.B. 2633-9

Profile No.	Notes Red	Plotted	Job No. 00 21.92	Division No. 11	F.B. 3295	Pg. 57
	Date	Date	Survey of CARBON MESA LAND SLIDE			
X-Sec. No.	Notes Chkd.	Checked	Survey by LIND	Notes ADAMS	Date 1-19-70	
	Date	Date	Map No.	Indexed C. J. GALLI	Date FEB 5 70	

STATION	B.S.	H.I.	F.S.	ELEV.	
					J.N 00 21.92 CARBON MESA LAND SLIDE
					CE RUN OF LEVEL
			JAN 19-70 LIND		
		ADAMS DARVIS LIND			

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403 Los Angeles County Engineering Bldg.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.			
B.M.C.M.#3	4963	406279		401316	B.M. C.M.#3	EL 401.316	F.B. 2633-15
T.P.	6790	405109	7960	398319			
E-1			4604	400505			
G-2			4617	400492			
E-2			4678	400431			
T.P.	3875	402194	6790	398319			
B.M. C.M.#3			0876	401318		EL 401.316	
B.M. C.M.#2	1777	358766		356989	B.M. C.M.#2	EL = 356.989	FB 2633-14
T.P.	1470	348794	11442	347324			
T.P.	0.982	338254	11522	337272			
T.P.	1065	327509	11810	326444			
T.P.	4849	322708	9650	317859			
D-1A	0537	319754	3491	319217	319.215		
T.P.	0737	309349	11142	308612			
T.P.	5963	309262	6050	303299			
T.P.	6310	315001	1071	308191			
G-3			5158	309843	309.840		
T.P.	0420	303746	11675	303326			
T.P.	0215	292921	11040	292706			
T.P.	6431	287990	11362	281559			

F.B. 3285 PG. 58

Job No. 202192 Division No. 11 Notes Red Plotted Profile

Survey of CARBON MESA LANDSLIDE Date Date No. X-Sec.

Survey by LIND Notes ADAMS Notes Chkd. Checked No.

Indexed C. J. GALLI Date 1-15-70 Date Date

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
E-3		287990	9930	278060	✓ 278.056	
T.P.	1800	278087	11703	276287		
D.2			4000	274087	✓ 274.082	
T.P.	0584	266996	11675	266412		
T.P.	0434	255706	11724	255272		
T.P.	0901	245317	11290	244416		
T.P.	0576	234485	11408	233909		
T.P.	4038	227238	11285	223200		
D-3			8280	218958	✓ 218.952	
T.P.	0429	216133	11534	215704		
T.P.	3697	208564	11266	204867		
T.P.	3091	200315	11340	197224		
C-3			9501	190.814	✓ 190.807	
T.P.	1070	189506	11879	188.436		
T.P.	3479	181254	11731	177.775		
B-2	1711	174300	8665	172589	✓ 172.581	
T.P.	3145	166685	10760	163540		
T.P.	0729	156159	11255	155430		
T.P.	1078	145986	11251	144908		
T.P.	0965	135390	11561	134.425		
T.P.	2094	127014	10470	124.920		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 002192 Division No. 11 F.B. 3285 Pg. 59
Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by LUND Notes ADAMS Date 1-19-70
Date ____ Date ____ Map No. ____ Indexed C. L. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.		
T.P.	0329	116 803	10540	116474		
T.P.	0185	105 128	11860	104943		
T.P.	7331	100 954	11505	93623		
B-4			6910	94044	94033	
T.P.	0478	89672	11760	89194		
T.P.	0485	78 568	11589	78083		
T.P.	0268	67721	11115	67453		
T.P.	0305	56 468	11558	56163		
T.P.	1391	46225	11643	44834		
T.P.	0602	35313	11514	34711		
T.P.	0740	24739	11314	23999		
T.P.	3047	20052	7734	17005		
B.M.C.M.#1			5771	14281	B.M.C.M.#1 ELEV = 14,258	F.B. 2633 9

F.B. 3285 Pg. 60

Job No. 2021.92 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of CARBON MESA LANDSLIDE Date ____ Date ____ No. ____ X-Sec. ____

Survey by LIND Notes ADAMS Notes Chkd. ____ Checked ____ No. ____

Indexed G. J. GALLI Date ____ Date ____ Date ____

Notes Ck'd by	Survey of CARBON MESA SLIDE F.B. 3285 PG. 61
Map No.	JN 0021.92 Tape 4 Std 84°F
Office Work	Surveyed by LIND
Checked	Notes LIND Date
Date	Indexed C. J. GALLI FEB 5 '70

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

1-29-70

LIND

ADAMS

DARVIS

LUND

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B - LINE

1-20-70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
B-1	B-6		0+00			TEMP. = 60° 100.53 @ 110° 40' = 94.04 285.19 @ 265° 20' = 284.20 73.53 @ LEV. = 73.52 451.76
		B-2	4+51.76	0.17	L.	234.69 @ 109.00 = 221.87 HORIZ. ANGLE = 2° 21' 20" OFFSET = 9.12 PLUS = 221.68
		B-4	6+73.44	9.12	L.	

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"C" LINE 1-20-70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L./R.	NOTES
B-1	E-4		0+00			TEMP. = 60°
						83.55 @ 97° 43' = 82.78
						177.86 @ LEV = 177.83
						63.93 @ 111° 36' = 59.43
						52.16 @ LEV. = 52.16
						372.20
		C-2	3+72.20	0.14	L.	
						248.47 @ 101° 24' = 243.53
						HORIZ. ANGLE = 5° 58' 40"
						OFFSET = 25.36
		C-3	6+14.40	25.36	L.	PLUSS = 242.20

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARSON MESA
JN 0021.92 Tape 4 Std 24 °F
Surveyed by LINP
Notes LINP Date 1-20-70
Indexed C. J. GALLI JAN 13 '70

F.B. 3285 Pg. 63

"D" - LINE

1-20-70

FB 3285 Pg 64

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R.	NOTES
D-1-A	E-4		0+00			TEMP = 60°
		P.O.T.	0+17.65	0.00		
						166.25 @ 106° 19' = 159.52
		D-2	1+75.96	19.58	L.	HORIZ. ANGLE = 7° 03' 00"
						OFF. = 19.58
						PLUS = 158.31
						DISTANCE D-2 TO D-3
		D-3	3+77.99	10.60	L.	209.99 @ 254° 24' = 202.23
						HORIZ. ANGLE POT - D-2 - D-3
						= 9° 35' 36"
						OFF = 8.98 - 19.58 = 10.60
						PLUS = 202.08

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"E" - LINE 1-20-70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	NOTES
E-1	E-4		0+00			TEMP = 62°
						8.10 @ LEV. = 8.10
		E-2	0+08.10	0.00		
						221.41 @ 123° 12' = 185.24
		E-3	1+93.34	0.61	L.	

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA SL
JN0021.92 Tape 4 Std 84°F
Surveyed by LIND
Notes LIND Date 1-20-70
Indexed C.J. GALLI JAN 13 '71

F.B. 3225 Pg 65

F.B. 3285 Pg. 66

"G" LINE

1-20-70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
E-1	G-5		0+00			TEMP = 62
		G-2	0+08.48	0.16	R	8.48 @ Lev. = 8.48
		G-3	2+01.20	4.16	R	212.98 @ 115° 09 = 192.76
						HORIZ ANGLE = 1° 14' 11"
						OFFSET = 4.16
						PLUSS = 192.72

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Profile	Notes Red	Plotted	Job No. 11	Division No. 0021.92	F.B. 3285	Pg. 67
No.	Date	Date	Survey of CARBON MESA LANDSLIDE			
X-Sec.	Notes Chkd.	Checked	Survey by LIND	Notes LIND	Date 1-7-71	
No.	Date	Date	Map No.	Indexed G.J. GATT	Date JAN 13 71	

J. N. 0021.92

CARBON MESA LANDSLIDE

RE-RUN OF LEVELS

STATION	B.S.	H.I.	F.S.	ELEV.
			JAN. 6 1971	
		LIND DOVER		
		MANLEY DARVIS		

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STATION	B.S.	H.I.	F.S.	ELEV.		
B.M. C.M. #3	1.660	402.976		401.316	B.M. C.M. #3 EL = 401.316	F.B. 2633-15
E-1			2.470	400.506		
E-2			2.565	400.411		
G-2			2.555	400.421		
B.M. C.M. #3			1.660	401.316	B.M. C.M. #3	
B.M. C.M. #2	0.359	357.348		356.989	B.M. C.M. #2 EL = 356.98	
T.P.	1.120	348.495	9.973	347.375		
T.P.	0.383	337.206	11.672	336.823		
T.P.	0.355	326.809	10.752	326.454		
T.P.	5.389	322.154	10.044	316.765		
D-1A			2.910	319.244		
T.P.	0.290	310.712	11.732	310.422		
T.P.	4.480	307.222	7.970	302.742		
T.P.	6.460	312.685	0.997	306.225		
G-3			4.368	308.317		
T.P.	0.340	306.565	6.460	306.225		
T.P.	1.019	296.379	11.205	295.360		
T.P.	1.185	286.632	10.932	285.447		
E-3			9.362	277.270		

F.B. 3285 PG. 68

Job No. 0021.92 Division No. 11 Notes Red ____ Plotted ____ Profile

Survey of CARBON MESA LANDSLIDE Date ____ Date ____ No. ____ X-Sec.

Survey by LIND Notes DOVER Notes Chkd. ____ Checked ____ No. ____

Indexed C. J. GALLY Date ____ Date ____ Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.
(CONT.)		286.632		
T.P.	5.057	280.712	10.977	275.655
D-2	2.506	275.345	7.873	272.839
T.P.	0.855	265.153	11.047	264.298
T.P.	0.671	253.997	11.827	253.326
T.P.	1.192	244.486	10.703	243.294
T.P.	0.473	234.037	10.922	233.564
T.P.	2.850	225.875	11.012	223.025
D-3			7.812	218.063
T.P.	0.440	215.395	10.920	214.955
T.P.	1.900	205.720	11.575	203.820
T.P.	1.712	196.242	11.190	194.530
C-3			5.844	190.398
T.P.	1.008	186.232	11.018	185.224
T.P.	0.900	176.843	10.289	175.943
B-2	0.240	172.858	4.225	172.618
T.P.	1.363	162.971	11.250	161.608
T.P.	0.188	152.142	11.017	151.954
T.P.	0.863	141.871	11.134	141.008
T.P.	1.249	131.650	11.470	130.401
T.P.	0.465	122.044	10.071	121.579

Profile Notes Red ____ Plotted ____ Job No. 0021.92 Division No. 11
No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. Notes Chkd ____ Checked ____ Survey by LIND Notes PEVER Date 1-6-71
No. ____ Date ____ Date ____ Map No. ____ Indexed G.L. GALL Date JAN 13 '71

F.B. 3285 Pg. 69

76-L298 CE 307 3-61

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F.B. 3285 Pg. 70

Job No. 0221.92 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of CARBON MESA LANDSLIDE Date ____ Date ____ No. ____ X-Sec. ____

Survey by L.J.P. Notes ____ Notes Chkd. ____ Checked ____ No. ____

Indexed B.T. (GATT) Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.		
(CONT.)		122.044				
T.P.	0.720	111.506	11.258	110.786		
T.P.	1.509	102.139	10.876	100.630		
B-4			8.484	93.655		
T.P.	1.041	92.250	10.930	91.209		
T.P.	0.505	82.212	10.543	81.707		
T.P.	0.777	71.898	11.091	71.121		
T.P.	0.576	60.866	11.608	60.290		
T.P.	0.565	50.086	11.345	49.521		
T.P.	0.695	39.467	11.314	38.772		
T.P.	0.805	28.673	11.599	27.868		
T.P.	1.472	18.753	11.392	17.281		
B.M. C.M.#1			4.500	14.253	B.M. C.M.#1 EL = 14.258	F.B. 2633-9

Notes Ck'd by	Survey of Carbon Mesa Landslide F.B. 3285 Pg. 71
Map No.	JN 0021.92 Tape 100 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 1-5-71
Date	Indexed [illegible] JW 13 '70

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT

OBSERVATIONS

1-5-71

LIND

DOVER

MANLEY

DARVIS

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76F3098 CE#31D 9.67

B - Line

1-5-71 ✓

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L./R.	NOTES
B-1	B-6		0+00	0.00		T= 60°
						110.53 @ 110° 40' = 94.04
						285.19 @ 265° 20' = 284.20
						73.53 @ LEV. 73.52
						451.76
		B-2	4+51.76	0.19	L.	
						T= 56°
						117.62 @ 109° 29' = 110.86
		POT	5+62.62	0.00		
						T= 56°
						118.06 @ 108° 42' = 111.81
		B-4	6+74.01	9.63	L.	HORIZ. ANGLE = 4° 56' 30"
						OFFSET = 111.39
						PLUS = 9.63

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"C" LINE 1-5-71

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.	NOTES
B-1	E-4		0+00			T= 60°
						372.26 LEV = 372.20
		C-2	3+72.20	0.14	L.	
						T= 56°
						249.48 @ 101° 11' = 244.69
						HORIZ. ANGLE = 6° 26' 55"
						PLUS = 243.14
						OFFSET = 27.49
		C-3	6+15.34	27.49	L.	

Notes Ck'd by
Map No.
Office Work Paul
Checked
Date

Survey of CARBON MESA SLIDE F.B. 3285 PG. 73
JNo. 21.92 Tape 100 Std 84°F
Surveyed by LIND
Notes LIND Date 1-5-70
Indexed C. J. GALLI M 1-5-70

D - LINE

1-5-71

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.	"NOTES"
D-1-A	E-4		0+00			TEMP = 58°
		POT	0+15.63	0.00		15.63 LEV = 15.63
						170.93 @ 106°19' = 164.02
						HORIZ. ANGLE = 7° 32' 45"
						PLUS = 162.59
		D-2	1+78.22	21.54	L.	OFFSET = 21.54
		D-3	3+81.59	11.59	L.	DISTANCE D-2 TO D-3
						210.65 @ 104°49' = 203.61
						HORIZ. ANGLE = POT - D-2 - D-3
						= 190°20'45"
						OFFSET = 21.54 - 9.95 = 11.59
						PLUS = 203.37

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"E"-LINE 1-5-71 ✓

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.	NOTES
E-1	E-4					TEMP = 60°
						8.13 LEV = 8.13
		E-2	0+08.13	0.00		
						223.84 @ 123°.44' = 186.13
		E-3	1+94.26	0.57	L.	

Notes Ck'd by
Map No.
Office Work Pan
Checked
Date

Survey of CARBON MESA SLIDE
JN 0021.92 Tape 100 Std 84°F
Surveyed by LIND
Notes LIND Date 1-5-71
Indexed G. J. GALLI JAN 13 '71

F.B. 3285 PG 75

G- LINE 1- 5- 71 ✓

On Line From	To	Sight on Station	Plus	Offset Amt	L/R	Notes
E-1	G-2		0400			T= 54°
						B.S. LEV = 8.50
		G-2	0408.50	0.17	R.	
						214.42 @ 114°58' = 194.40
						HORIZ ANGLE = 1° 23' 45"
		G-3	2+02.84	4.74	R.	PLUS = 194.34
						OFFSET = 4.74

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F. B. 3285 PG. 77

Profile No. Notes Red Date Plotted Date Job No. 0021.92 Division No. 11
Survey of CARBON MESA LANDSLIDE
X-Sec. No. Notes Cont'd Date Checked Date Survey by LIND Notes LIND Date 9-13-71
Map No. Indexed T. M. PALMERI Date SEP 22 71

ROBERT D. MICHIK

J.N. 0021.92

CARBON MESA LANDSLIDE

RE-RUN OF LEVELS

STATION	B.S.	H.I.	F.S.	ELEV.
			SEPT. 13 1971	
		LIND		
		DOVER		
	MAHER			
	TOLLISON			

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76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
BM CM #3	1547	402 913		401 316	BM C. M. # 3	EL= 401.316
T.P.	5734	405 657	2 990	399 923		F.B. 2633-15
E-1			5201	400 456		
E-2			5295	400 362		
G-2			5267	400 390		
T.P.	3713	403 567	5803	399 854		
B.M. C.M. #3			2248	401 319	B.M. C.M. #3	
B.M. CM #2	1314	358 303		356 989	B.M. C.M. #2	EL= 356.989
T.P.	0413	346 831	11885	346 418		
T.P.	0283	335 267	11 847	334 984		
T.P.	0510	324 263	11514	323 753		
T.P.	8630	325 463	7430	316 833		
D-1 A			6301	319 162		
T.P.	0236	317 069	8 630	316 833		
T.P.	1928	308 327	10670	306 399		
T.P.	7244	310 188	5383	302 944		
G-3			5 160	305 028		
T.P.	1630	301 315	10503	299 685		
T.P.	0285	290 080	11520	289 795		
T.P.	2387	281 427	11040	279 040		

F. B. 3285 Pg. 78

Job No. 0021.42 Division No. 11 Notes Red Plotted Profile

Survey of CARBON MESA LANDSLIDE Date Date No.

Survey by LIND Notes LIND Notes Chk'd. ROBERT D. MICHIK Checked X-Sec.

Indexed T. M. PALMERI Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.
		281 427		
E-3			5 947	275 480
T.P.	1 665	271 499	11 593	269 834
T.P.	1 289	261 082	11 706	259 793
T.P.	1 142	251 937	10 287	250 795
T.P.	0 658	241 713	10 882	241 055
T.P.	0 898	231 122	11 489	230 224
T.P.	6 194	226 135	11 181	219 941
D-3			10 052	216 083
T.P.	5 512	220 137	11 510	214 625
T.P.	0 756	209 158	11 735	208 402
T.P.	1 567	199 753	10 972	198 186
C-3			10 497	189 256
T.P.	2 142	190 090	11 805	187 948
T.P.	1 943	181 139	10 894	179 196
B-2	1 902	174 446	8 595	172 544
T.P.	0 852	164 184	11 114	163 332
T.P.	0 855	154 203	10 836	153 348
T.P.	0 568	143 699	11 072	143 131
T.P.	6 502	139 531	10 670	133 029
T.P.	1 813	130 011	11 333	128 198

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0821.97 Division No. 11 F. B. 3285 PG. 79
X-Sec. No. ____ Date ____ Date ____ Survey of CARIBON MESA LANDSLIDE
Notes Chk'd. ROBERT D. MIGLIO Date ____ Checked ____ Survey by LIND Notes LIND Date 9-13-71
Date ____ Date ____ Map No. ____ Indexed T. M. PALMER Date SEP 22 '71

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STATION	B. S.	H. I.	F. S.	ELEV.
		130 011		
T.P.	1505	120 161	11 355	118 656 ✓
T.P.	0857	109 289	11 729	108 432 ✓
T.P.	0451	99 762	9978	99 311 ✓
B-4			7255	92 507 ✓
T.P.	1364	90 572	10 554	89 208 ✓
T.P.	0476	80 199	10 849	79 723 ✓
T.P.	1017	69 654	11 562	68 637 ✓
T.P.	1526	60 365	10 815	58 839 ✓
T.P.	1830	50 805	11 390	48 975 ✓
T.P.	0458	39 441	11 822	38 983 ✓
T.P.	0633	29 102	10 972	28 469 ✓
T.P.	2791	20 989	10 904	18 198 ✓
BM C.M. #1			6745	14 244 ✓ BM C.M. #1. EL= 14.258

F.B. 2633-9

F. B. 3285 Pg. 80

Job No. 4021.92 Division No. 11 Notes Red Plotted Profile

Survey of CARIBAN MESA LAND SLIDE Date Date No.

Survey by LIND Notes LIND Checked X-Sec.

Indexed T. M. PALMERI Date Date Date No.

ROBERT D. MICHIE

Notes Ck'd by	Survey of CARBON MESA
Map No.	JN 0021.92 Tape 167 Std 84 °F
Office Work	Surveyed by LINS
Checked ROBERT D. MICHIK	Notes LINS Date 9-3-71 SEP 22 '71
Date	Indexed T. M. PALMERI

F. B. 3285 PG. 81

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

9-3-71

LINS

DOVER

TOLLISON

MAHER

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76F309S CE#310 3-68

F. B. 3285 PG 82

9-3-71

B-LINE

ON LINE FROM	ON LINE TO	SHOT OR STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
B-1	B-6		0+00			T= 84° LEV = 45.76
		B-2	4+51.76	0.19	L.	T= 84° @ 109° 51' = 104.91
		PBT	5+58.67	0.00		T= 84° LEV = 6.83
		PBT	5+65.50	0.00		T= 84°
		B-4	6+75.34	10.84	L.	117.12 @ 109° 32' = 110.38 HORIZ. ANGLE = 5° 37' 30" PLUS = 100.84 OFFSET = 10.84

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"C"- LINE 9-3-71

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
B-1	E-4		0+00.			T= 84°
						372.20 LEV = 372.20
		C-2	3+72.20	0.15	L.	T= 74°
						252.14 @ 101° 31' = 247.04
		C-3	6+17.24	31.63	L.	HORIZ. ANGLE = 7° 21' 20"
						PLUS = 245.04
						OFFSET = 31.63

Notes Ck'd by
Map No.
Office Work
Checked ROBERT D. MICHIK
Date

Survey of FARBON MESA SLIDE
JN 0021.42 Tape 167 Std 64 °F
Surveyed by LIND
Notes LIND Date 9-3-71
Indexed T. M. PALMERI SEP 22 '71

F. B. 3285 PG. 83

"D"- LINE 9-3-71

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT		NOTES
D-1-A	E-4		0+00	0.00		T = 74°
						18.41 LEV = 18.41
		POT	0+18.41	0.00		188.98 @ 104°41' = 182.81
		D-2				D-2 THIS STATION DESTROYED BY ROAD CONST. NOT RECOVERED
		POT	2+01.~~21~~ 22	0.00		158.33 @ 105°56' = 152.25
		POT	3+53.~~45~~ 47	0.00		41.00 @ 111°28' = 38.16 ✓
						HORIZ ANGLE = 21°02'20"
						PLUS = ~~37.91~~ 35.62
		D-3	3+~~91.36~~ 89.09	13.70	L.	OFFSET = 13.70

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E - LINE 9-3-71

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L./R.			
E-1	E-4		0+00				T= 74°	
		E-2	0+08.14	0.00		8.14	@ LEV. =	8.14
		E-3	1+96.27	0.57	L.	226.14	@ 123° 42' =	188.~~15~~ 14

Notes Ck'd by
Map No.
Office Work
Checked ROBERT D. MICHIK
Date

Survey of CARBON MESA
JN0021.92 Tape 167 Std 84 °F
Surveyed by LIND
Notes LIND Date 9-3-71
Indexed T. M. PALMERI SEP 22 '71

F. B. 3285 PG. 85

F. B. 3285 PG 86

"G" - LINE

9-3-71

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
E-1	G-5		0+00			T= 74'
		G-2	0+08.52	0.20	R	8.52 @ LEV. = 8.52
		G-3	2+06.48	5.86	R	219.56 @ 115° 34' = 198.05
						HORIZ ANGLE = 1° 41' 43"
						PLUS = 197.96
						OFFSET = 5.86

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Profile No.	Notes Red	Plotted	Job No. 0021.92	Division No. 11	F. B. 3285 PG. 87
	Date	Date	Survey of CARBON MESA LANDSLIDE		
X-Sec. No.	Notes Chk'd.	Checked	Survey by LIND	Notes CARO	Date 6-15-72
	Date	Date	Map No.	Indexed C. J. GALLI	Date JUL 31 1972

U.N. 0021.92

CARBON MESA LANDSLIDE

Re-Run of Levels

STATION	B. S.	H. I.	F. S.	ELEV.
				June 15, 1972
		Lind Caro Mitchell Tollison		
		Masuda		

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76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M.C.M. #3	10210	411 526		401 316	B.M.C.M #3	EL = 401.316
E-1			11 055	400 471		F.B. 2633-15
E-2	11157	411 503	11 180	400 346		
B.M.C.M. #3			10190	401 313	B.M. C.M. #3	
B.M.C.M. #2	0489	357 478		356 989	B.M. C.M. #2	
T.P.	0214	346 617	11 075	346 403		
T.P.	0190	335 169	11 638	334 979		
T.P.	0521	324 272	11 418	323 751		
T.P.	5802	322 368	7706	316 566		
D-1A			3137	319 231		
T.P.	0275	316 841		316 566		
T.P.	1761	306 794	11 808	305 033		
T.P.	5098	309 812	2080	304 714		
G-3			5300	304 512		
T.P.	0159	298 667	11 304	298 508		
T.P.	0190	287 577	11 280	287 387		
T.P.	0269	277 627	10 219	277 358		
E-3			2437	275 190		
T.P.	0920	267 235	11 312	266 315		

F. B. 3285 Pg. 88 | Job No. 0021.92 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile ____

Survey of CARBON MESA LANDSLIDE | Date ____ | Date ____ | No. ____

Survey by LIND | Notes CA720 | Notes Chk'd. ____ | Checked ____ | X-Sec. ____

Indexed G. J. GALLI | Date ____ | Date ____ | No. ____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
		267 235				
T.P.	0523	256 726	11 032	256203		
T.P.	1210	246 403	11533	245 193		
T.P.	1101	236 195	11 309	235 094		
T.P.	1032	225 775	11 452	224743		
D-3	11 076	226 894	9957	215818		
T.P.	0270	216 867	10 297	216597		
T.P.	0533	205 568	11 832	205035		
T.P.	3494	197 393	11 669	193899		
C-3			8230	189 163		
T.P.	0486	194 385		193 899		
T.P.	0552	184 252	10685	183 700		
B-2	1297	173 824	11 725	172527		
T.P.	1165	163 673	11316	162508		
T.P.	1322	153 638	11 357	152316		
T.P.	1696	144 044	11 290	142 348		
T.P.	1009	134 006	11 047	132997		
T.P.	1420	123 905	11 521	122485		
T.P.	1541	114 963	10483	113 422		
T.P.	0488	104 028	11 423	103 540		
B-4			11 636	92392		

Profile Notes Red ____ Plotted ____ Job No. 0021-92 Division No. 11 F. B. 3285 PG. 89
No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by LIND Notes CARO Date 6-15-72
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 31 '72

F. B. 3285 Pg. 90 | Job No. 0021.92 Division No. 11 | Notes Red _____ Plotted _____ Profile

Survey of CARBON MESA LANDSLIDE | Date _____ Date _____ No. _____

Survey by LIND Notes Carp | Notes Chk'd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

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STATION	B. S.	H. I.	F. S.	ELEV.
		104.028		
T.P.	0278	93 008	11 298	92 730
T.P.	0514	81 641	11 881	81 127
T.P.	0726	71 191	11 176	70 465
T.P.	0212	59 959	11 444	59 744
T.P.	1320	50 288	10 991	48 968
T.P.	1070	39 758	11 600	38 688
T.P.	1049	29 517	11 290	28 468
T.P.	1836	20 034	11 319	18 198
B.M. C.M.#1			5790	14 244

B.M. C.M.#1 EL = 14.258

F.B. 2633-9

Notes Ck'd by	Survey of CARBON MESA SLIDE
Map No.	JN 0021.92 Tape 167 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes Caro Date 6-15-72
Date	Indexed C. J. GALLI 3-72

F. B. 3285 PG. 91

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

6-15-72

Lind
Caro
Tollison
Masuda
Mitchell

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16F309S CE#310 3-68

F.B. 3285 PG 92

B-Line

6-15-72

On Line From	On Line TO	Sight on Station	Plus	Offset Amt.	Offset L/R.		Notes		
B-1	B-6		0+00			451.76	T= 84° Lev.=	451.76	
		B-2	4+51.76	0.19	L.	120.75 121.20	T= 84° @ 109°33' @ 110°10'	= 113.79 = 113.77	113.78
		P.O.T.	5+65.54	0.00		117.10 116.91	T= 72° @ 109°15' @ 108°58'	= 110.54 = 110.55	110.54
		B-4	6+75.54	10.95	L.	Horiz Plus Offset	Angle = =	5° 41' 15" 110.00 10.95	

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"C"-Line 6-15-72

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	L/R.		Notes	
B-1	E-4		0+00				T=84°	
						372.20	Lev. =	372.20
		C-2	3+72.20	0.15	L.			
							T=84°	
		C-3	6+17.50	32.25	L.	252.41	@ 101° 25'	= 247.4X
						252.31	@ 101° 18	= 247.42
							Mea.	= 247.4X
						Horiz	Angle	= 7°29'20"
						Plus		= 245.30
						Offset		= 32.25

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA SLIDE
JN 0021.92 Tape 167 Std 84 °F
Surveyed by LIND
Notes CARO Date 6-15-72
Indexed C. J. GALLI JUL 31 '72

F. B. 3285 PG. 93

F. B. 3285 PG. 94

"D"- Line 6-15-72

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	Offset L/R		Notes		
D-1A	E-4		0+00	0.00		18.47	T=70° Lev.	= 18.47	
		P.O.T.	0+18.47	0.00		187.17	T=70° @ 104°32'	= 181.18	181.18
						186.92	@ 104°14'	= 181.18	
		P.O.T.	1+99.63	0.00					
		D-3	3+90.26	14.01	L.	Horiz	T=70 Angle	= 4°12'13"	
						Plus		= 190.63	
						Offset		= 14.01	
						199.11	@ 106°15'	= 191.14	191.14
						199.04	@ 106°11'	= 191.13	

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"E" Line 6-15-72

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	L/R			
E-1	E-4		0+00					
		E-2	0+08.14	0.00		8.16	T=74° @ Lev =	8.16
		E-3	1+96.64	0.56	L.	226.48 226.76	T=74° @ 123.41 = @ 123.47 =	188.45 188.45
							Mea =	188.45

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA SLIDE
JN0021.92 Tape 167 Std 84 °F
Surveyed by LIND
Notes Carco Date 6-15-72
Indexed G. J. GALLI JUL 31 72

F. B. 3285 Pg. 95

F. B32.85 PG. 96

"G-" Line

6-15-72

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	L/R.		Notes		
E-1	G-5		0+00				T=74°		
						NOTE:	"G-2"	DESTROYED	
		POT.	0+08.49	0.00		8.49 @	T=74° Lev =	8.49	
		G-3	2+07.04	6.05	R.	220.43 @	T=74° 115°41' =	198.64	198.64'
						220.21 @	115°34' =	198.64	
						Horiz Angle	=	1°44'43"	
						Plus	=	198.55'	
						Offset	=	6.05'	

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Profile No.	Notes Red	Plotted	Job No. 0021.92	Division No. 11	F.B. 3285	Pg. 97
	Date	Date	Survey of CARBON MESA LANDSLIDE			
X-Sec. No.	Notes Chkd. Paul	Checked	Survey by LIND	Notes LIND	Date 3-13-73	
	Date	Date	Map No.	Indexed G. D. BAILEY	Date APR 4 1973	

J.N. 0021.92

CARBON MESA LANDSLIDE

RE-RUN OF LEVELS.

STATION	B.S.	H.I.	F.S.	ELEV.
		TOLLISON	LIND MITCHELL	3-13-73

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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F.B. 3285 PG. 98 | Job No. 002.1.42 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____ X-Sec. No. ____

Survey of Lake Bau Mesa Landslide

Survey by Lind Notes ____ Notes Chkd. ____ Checked ____

Indexed G. D. BAILEY Date APR 4 Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
BM CM #3	2003	403 319		401 316	B.M. C.M. #3	EL = 401.316
T.P.	5934	405 390	3863	399 456		F.B. 2633-15
E-1	4874	405 337	4927	400 463		
T.P.	3746	403 162	5921	399 416		
BM CM #3			1843	401 319	BM. C.M. #3	
BM CM #2	0543	357 532		356 989	BM C.M. #2	
T.P.	0345	346 779	11098	346434		
T.P.	0662	335 636	11805	334974		
T.P.	0264	324 026	11874	323 762		
T.P.	10374	324 554	9846	314180		
D-1-A	5385	324 554	5385	319169		
T.P.	1027	315 207	10374	314180		
T.P.	0732	304 455	11484	303 723		
T.P.	11403	304 524	11334	293 121		
T.P.	7774	309 603	2695	301 829		
G-3			5447	304 156		
T.P.	2294	300 515	11382	298 221		
T.P.	0215	289 480	11250	289 265		
T.P.	2112	280 497	11095	278 385		
E-3			5486	275 011		

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		280 497				
T.P.	3262	272 397	11362	269 135		
T.P.	1485	262 190	11692	260 705		
T.P.	2019	252 791	11418	250 772		
T.P.	2957	243 889	11859	240 932		
T.P.	0699	232 833	11755	232 134		
T.P.	3839	225 180	11492	221341		
D-3	10578	226 131	9627	215 553		
T.P.	0752	215 505	11378	214753		
T.P.	0701	205 250	10956	204 549		
T.P.	4086	199 648	9688	195 562		
C-3			10545	189 103		
T.P.	1795	190 430	11013	188 635		
T.P.	1138	180 462	11106	179 324		
B-2	1197	173 763	7896	172 566		
T.P.	0266	163 033	10996	162 767		
T.P.	1313	153 254	11092	151 941		
T.P.	0807	143 179	10882	142 372		
T.P.	2536	135 560	10155	133 024		
T.P.	1824	130 021	7363	128 197		
T.P.	0642	118 737	11926	118 095		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 00492 Division No. 11 F.B. 3285 Pg. 99
X-Sec. No. ____ Date ____ Date ____ Survey of Carbon Mesa Landslide
Notes Chkd. Paul Checked ____ Survey by Lind Notes Lind Date 3-13-73
Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date APR 4 1973

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STATION	B.S.	H.I.	F.S.	ELEV.		
		118 737				
T.P.	0711	107 874	11 574	107163		
T.P.	6682	103 200	11 356	96 518		
B-4			10741	92 459		
T.P.	0252	93 058	10394	92 806		
T.P.	0659	82 263	11454	81 604		
T.P.	0707	71 407	11563	70 700		
T.P.	0498	60 758	11 147	60 260		
T.P.	0212	49 707	11 263	49 495		
T.P.	0750	39 215	11 242	38 465		
T.P.	0456	27 748	11923	27292		
T.P.	2988	20 149	10587	17 161		
BM CM#1			5868	14 281	BM C.M.#1	EL= 14.258
					PER F.B. 2635-9	

F.B. 3285 Pg. 100 Job No. 0021.92 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of LARBON MESA LANDSLIDE Date ____ Date ____ No. ____
Survey by LIND Notes LIND Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed G. D. BAILEY Date APR 4 1973 Date ____ Date ____ No. ____

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape 164 Std 84 °F
Office Work PAW	Surveyed by LIND
Checked	Notes LIND Date 3-29-73
Date	Indexed G. D. BAILEY APR 4 1973

F. B. 3285 PG. 101

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

3-29-73

LIND

WALKER

TALLISON

MITCHELL

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16F309S CE#310 3-68

F. B. 3285 PG. 102

ON LINE FROM	ON LINE TO	SIGHT ON STATION	"B-LINE" PLUS	OFFSET AMT	OFFSET L./R.				
3-29-73									
B-1	B-6		0+00.00						
		B-2	4+51.76	0.22	L.				
		PT	6+17.15	0.00					
		B-4	6+75.91	11.07	L.				

NOTES

TEMP. = 64°

LEV. = 451.76

451.82

173.60 @ 107° 40' = 165.39
173.61 @ 107° 40' = 165.40

DISTANCE POT TO B-4

45.29 @ 113° 39' = 59.80
45.08 @ 113° 14' = 59.79

HORIZ. ANGLE = 10° 39' 54"

PLUS = 58.76

OFFSET = 11.07

59.79 MEAS

11.07

58.76

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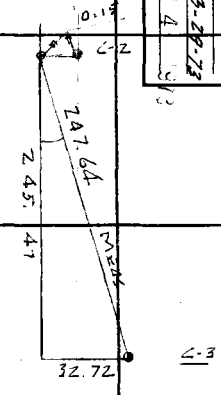
"C" - LINE

3-29-73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R.		NOTES
B-1	E-4		0+00.00				TEMP. = 64°
						267.65 @ 267.70 @	92° 02' = 267.45 = 267.45 92° 15' = 267.46
						48.55 @ 48.00 @	116° 08' = 43.58 = 114° 47' = 43.57 = 43.57
						25.49 @	LEV = 25.49 = 25.49
						35.77 @	LEV = 35.77 = 35.77
							372.28
		C-2	3+72.28	0.16	L.	252.96 @ 252.68 @	101° 44' = 247.64 = 247.64 101° 26' = 247.64 = 247.64
						HORIZ. ANGLE =	7° 35' 34"
						OFFSET =	32.72
						PLUS =	245.47
		C-3	6+17.75	32.72	L		



Notes Ck'd by
Map No.
Office Work Paul
Checked
Date

Survey of CARBON MESA SLIDE
JN 00021.92 Tape 164 Std 84 °F
Surveyed by LIND
Notes Date 3-29-73
Indexed G. D. BAILEY APR 4

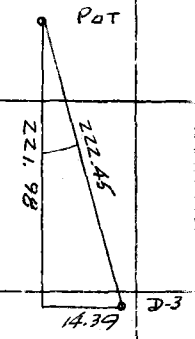
F. B. 3285 PG. 103

F.B. 3285 PG. 104

"D" LINE

3-29-73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES
D-1-A	E-4		0+00.00	0.00		TEMP. = 64°
						13.73 LEV. = 13.73
		POT	0+13.73	0.00		
						161.23 @ 104° 53' = 155.80 161.19 @ 104° 50 = 155.80
		POT	1+69.53	0.00		POT TO D-3
						231.70 @ 106° 13' = 222.45 231.61 @ 106° 08' = 222.46
		D-3	3+91.51	14.39	L	HORIZ. ANGLE 3° 42' 30"
						PLUS = 221.98 OFFSET = 14.39



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"E" LINE 3-29-73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.	NOTES.
E-1	E-4		0+00.00	0.00		TEMP = 64°
						NOTE: E-2 DESTROYED
		POT	0+08.67	0.00		8.67 LEV = 8.67
		E-3	1+96.97	0.60	L.	225.78 @ 123° 29' = 188.29 225.50 @ 123° 22' = 188.31 = 188.30

Notes Ck'd by
Map No.
Office Work Paul
Checked
Date

Survey of Carbon Mesa Slide
JN 0021.92 Tape 164 Std 84 °F
Surveyed by Lind
Notes Date 3-29-73
Indexed G. D. BAILEY APR 4 1973

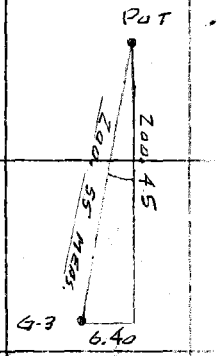
F. B. 3285 PG. 105

F.B. 3285 PG. 106

"G" LINE

3-29-73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
E-1	G-5		0+00.00'	0.00		TEMP = 64°
						7.16 LEV = 7.16
		POT	0+07.16'	0.00		POT TO G-3
						222.36 @ 115° 35' = 200.59 222.05 @ 115° 24' = 200.56 = 200.55
		G-3	2+07.61'	6.40	R.	HORIZ. ANGLE = 1° 49' 47" OFFSET = 6.40 PLUS = 200.45



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Notes Ck'd by R. HILARIO	Survey of CARBON MESA LANDSLIDE AREA	F. B. 3285 PG. 107
Map No.	JN 0301.03 Tape Std 89 °F	
Office Work	Surveyed by R.C. DALE	
Checked	Notes RCD Date 7/3/74	
Date	Indexed G. J. GALLI AUG 7 1974	

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

JN 0301.03

JULY 3 1974

PARTY
R.C. DALE
B.R. JACKSON
R.R. RODRIGUEZ
T. ONASHI

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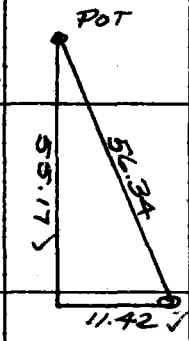
76F309S CE#310 3-69

"B" LINE

7/3/74

F.B. 3285 Pg. 108

ONLINE FROM	ONLINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R	NOTES
B-1	B-6		0+00			ELECTRONIC MEASUREMENT 455.475 @ 7°13'20" = 451.861
		B-2	4+51.861	0.26	L	BY TAPE STD 84° 177.80 @ 18°03' T=72° = 169.04 177.57 @ 17°48' T=72° = 169.06 AVG: 169.05
		POT	6+20.91	0.00		62.33 @ 25°18' T=72° = 56.34 62.06 @ 24°47' T=72° = 56.33 AVG: 56.34 HORIZ ANGLE = 11°42'20"
		B-4	6+76.08	11.42	L	PLUS = 55.17 OFFSET = 11.42



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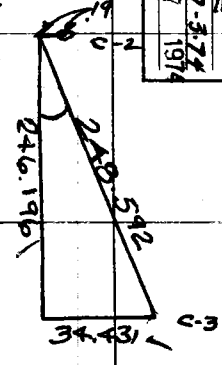
"C" LINE 7/3/74

ON LINE FROM	ON LINE TO	SIGHTON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
B-1	E-4		0+00			ELECTRONIC MEASUREMENT 335.140 @ 2°19'00" = 334.866 BY TAPE STD 84° 37.43 @ LEV T=70° = 37.430 372.296
		C-2	3+72.296	0.19	L	ELECT. MEAS. 253.620 @ 11°25'40" = 248.592 HORIZ ANGLE: 7°57'40"
		C-3	6+18.492	34.43	L	OFFSET = 34.431 PLUS = 246.196



Notes Ck'd by R. HILARIO
Map No.
Office Work
Checked
Date

Survey of CARBON MESA LANDSLIDE AREA
JN 030103 Tape Std 84 °F
Surveyed by R.C. DALE
Notes R.C.D. Date 7-3-74
Indexed C. J. GALLI AUG 7 1974

F. B. 3285 PG. 109

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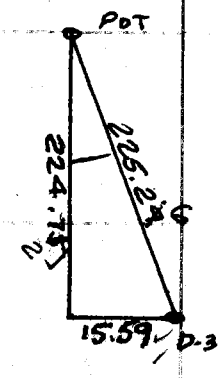
"D" LINE 7/3/74

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
D-1-A	E-4		0+00	0.00		
		POT	0+13.73	0.00		FD PK. NAIL 13.73 @ LEV T=70° = 13.73
		POT	1+70 94	0.00		SET 8" NAIL POT. TO POT. 162.92 @ 15°12' T=70° = 157.21; 162.56 @ 14°44' T=70° = 157.21; 157.21
		D-3	3+95 ~~69~~ 6	15.59	L	POT. TO D-3 234.30 @ 15°59' T=70° = 225.~~30~~.23; 234.26 @ 15°54' T=70° = 225.28; 225.2~~9~~6

OFFSET - 15.59
PLUS = 224.75

HORIZ ∡
3°-58'-30"



F. B. 3285 PG. 110

76F309S CE#310 3-69

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"E" - LINE 7-3-74

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES
E-1	E-4		0+00	0.00		
		P.O.T.	0+08.67	0.00		P.O.T. RESET - 8.67 @ Lev T=70° = 8.67
		E-3	1+98.04	0.57	L	BY TAPE STD 84° 228.86 @ 34°09' T=70° = 189.38 228.45 @ 34°00' T=70° = 189.37 AVG = 189.37

Notes Ck'd by R. HILARIO
Map No.
Office Work
Checked
Date

Survey of CARBON MESA LANDSLIDE AREA
JN 001.03 Tape Std 84 °F
Surveyed by R.C. DALE
Notes RCD Date 7-3-74
Indexed C. J. GALLI AUG 7 1974

F. 2285 PG. 111

Profile No.	Notes Red	Plotted	Job No. 0301.03	Division No.	F. B. 3285	Pg. 113
	Date	Date	Survey of CARBON MESA LANDSLIDE AREA			
X-Sec. No.	Notes Chk'd. R. HILARIO	Checked	Survey by R.C. DALE	Notes RCD	Date 7-9-74	
	Date	Date	Map No.	Indexed C. J. CALLI	Date AUG 7 1974	

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CARBON MESA LANDSLIDE

RE-RUN OF LEVELS

JN 0301.03

JULY 9 1974

PARTY

R.C. DALE
B.R. JACKSON
R.R. RODRIGUEZ
T. ONASHI

STATION	B. S.	H. I.	F. S.	ELEV.

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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F. B. 3285 Pg. 114 | Job No. 0303 | Division No. | Notes Red | Plotted | Profile No.
Survey of CARBON MESA LANDSLIDE AREA | Date | Date | X-Sec. No.
Survey by R.C. DALE | Notes | Notes Chk'd. | Checked
Indexed C. J. GALLE | Date AUG 7 1974 | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
BM CM #3	0.394	401.869		401.475	BM CM #3 EL = 401.475 FB. 2450-80	
T.P.	6.015	404.584	3.300	398.569	PER FB 2450-80	FB2633-15
E-1	4.027	404.619	3.992	400.592	EI. EL =	
T.P	3.727	401.933	6.413	398.206		
BM CM #3			0.460	401.473	BM CM #3 EL = 401.475 SEE ABOVE	
BM CM #2	0.530	357.673		357.143	BM CM #2 - ELEV = 357.143	FB2450-81
T.P.	0.591	346.692	11.592	346.101		
T.P.	0.665	335.687	11.670	335.022		
T.P.	0.461	326.527	9.621	326.066		
T.P.	5.300	320.834	10.993	315.534		
T.P.	3.594	323.621	0.801	320.033		
D-1-A	1.520	320.892	4.255	319.372	D-1-A ELEV = 319.169	FB3285-98
T.P.	0.738	310.905	10.725	310.167		
T.P	0.315	299.705	11.515	299.390		
T.P.	3.070	294.665	8.110	291.595		
T.P.	0.629	285.849	9.445	285.220		
E-3	1.225	275.424	11.650	274.199	E-3 ELEV = 275.011	FB3285-98
T.P.	0.655	264.205	11.874	263.550		
T.P.	0.234	253.044	11.395	252.810		
T.P.	0.580	242.833	10.791	242.253		

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
		242.833			
T.P.	0.535	231.535	11.833	231.000	
T.P.	5.800	226.328	11.007	220.528	
D-3			11.770	214.558	D-3 ELEV = 215.553 FB 3285-99
T.P.	4.509	222.889	7.948	218.380	
T.P.	0.918	214.207	9.600	213.289	
T.P.	0.950	203.793	11.364	202.843	
T.P.	3.082	196.042	10.833	192.960	
C-3	0.499	189.323	7.218	188.824	C-3 ELEV = 189.103 FB 3285-99
T.P.	0.940	181.683	8.580	180.743	
B-2	0.803	173.476	9.010	172.673	B-2 - ELEV = 172.566 FB 3285-99
T.P.	0.845	163.244	11.077	162.399	
T.P.	1.818	153.897	11.165	152.079	
T.P.	1.686	145.264	10.319	143.578	
T.P.	1.131	136.274	10.121	135.143	
T.P.	1.840	129.502	8.612	127.662	
T.P.	1.050	118.682	11.870	117.632	
T.P.	0.984	109.062	10.604	108.078	
T.P.	2.158	100.127	11.093	97.969	
B-4			7.929	92.198	B-4 - ELEV = 92.459 FB 3285-100
	0.688	89.~~149~~ 56	11.661	88.46~~1~~6	

Profile Notes Red ____ Plotted ____ Job No. 6301.03 Division No. ____ F. B. 3285 Pg. 115
No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE AREA
X-Sec. Notes Chk'd. R. HILARIO Checked ____ Date ____ Survey by R.C. DALE Notes RCD Date 7-9-74
No. ____ Date ____ Date ____ Map No. ____ Indexed J. J. GALLI Date AUG 7 1974

F. B. 3285 PG. 116 | Job No. 0301.03 Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of CARBON MESA LANDSLIDE AREA Date _____ Date _____ No. _____

Survey by R.C. DALE Notes RCD Notes Chk'd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date AUG 7 1974 Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.
T.P.	0.826	89.146	11.698	77.448
T.P.	0.233	78.279	11.382	66.897
T.P.	0.990	67.189	11.388	55.799
T.P.	0.340	56.735	11.008	45.727
T.P.	0.320	46.062	11.557	34.505
T.P.	0.284	34.825	11.428	23.397
BM CM-1		23.684	9.301	14.383

BM CM-1 ELEV = 14.258
TB 328-100

Notes Ck'd by	Survey of CARBON MESA LANDSLIDE F. B. 3285 PG. 117
Map No.	JN 0301.03 Tape 2 Std B4 °F
Office Work	Surveyed by M. E. WACKER
Checked	Notes M. E. W. Date FEB-76
Date	Indexed L. L. PALMER AUG 2 1976

J.N. 0301.03

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

JAN-30-76

REF:

F.B. 3285

PARTY:

WACKER
DOVER
TOLLISON
JOHNSON

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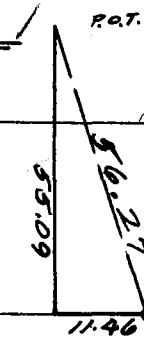
76F3095 CE#310 3-68

F. B. 3285 PG 118

'B' LINE

JAN-30-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L./R.	NOTES
B-1	B-6		0+00			ELECTRONIC MEAS. 455.445 @ 7°13'25" = 451.83
		B-2	4+51.83	0.25	L.	TAPE # 2 STD. 84° 177.79 @ 17°51' = 169.21 177.60 @ 17°39' = 169.22 T = 64° = 169.21
		P.O.T.	6+21.04	0.00		62.00 @ 24°49' = 56.27 61.88 @ 24°34' = 56.27 = 56.27
		B-4	6+76.13	11.46	L.	HORIZ ANGLE = 11°45'00" PLUS = 55.09 OFFSET = 11.46



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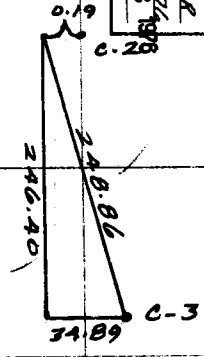
'C' LINE — 30-JAN-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES:
B-1	E-4		0+00			ELECTRONIC MEAS.
						338.56 @ 2°11'28" = 338.31
						TAPE #2 STD. 84°
						34.00 @ LEV = 34.00
						372.31
		C-2	3+72.31	0.19	L.	TAPE #2 STD. 84°
						254.14 @ 11°40' = 248.86
						253.94 @ 11°27' = " "
						T=64° = 248.86
		C-3	6+18.71	34.89	L.	HORIZ. ANGLE = 8°03'35"
						PLUS = 246.40
						OFFSET = 34.89



Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARMEN MESA LANDFILL
JN 2701.03 Tape 2 Std 84 °F
Surveyed by M. E. WACKER
Notes
Indexed by R. PALMER Date JAN-76
AUG 2 1976

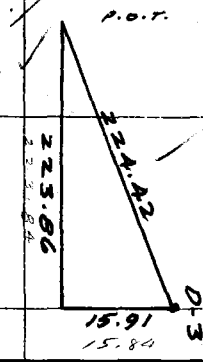
F. B. 3295 Pg. 119

F. B. 3285 PG. 120

"D" LINE

29-JAN-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R.	NOTES.
D-1-A	E-4		0+00			TAPE #2 STD. 84°
		P.O.T.	0+12.50	0.00	—	T= 76° 12.50 @ 2cv = 12.50
		P.O.T.	1+73.13	0.00	—	T= 76° 165.99 @ 255°25' = 160.63 165.73 @ 255°46' = " . " = 160.63
		D-3	3+96.99	15.91	L.	T= 76 233.41 @ 15°57' = 224.41 233.28 @ 15°50' = 224.42 HORIZ. ANGLE = 4°03'55" PLUS. = 223.86 OFFSET = 15.91



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'E' LINE

29-JAN-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R	NOTES.
E-1	E-4		0+00	0.00	—	TAPE #2 STD. 84°
						T= 76°
						8.68 @ LEV = 8.68
		P.O.T.	0+08.68	0.00	—	
						T= 76°
						228.42 @ 123°53' = 189.62
						228.73 @ 124°00' = 189.62
		E-3	1+98.30	0.60	L.	= 189.62

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA LANDSLIDE
JN 0301.03 Tape 2 Std 84 °F
Surveyed by M. E. WACKER
Notes M. E. W. Date JAN-76
Indexed L. M. PALMERI AUG 2 1976

F. B. 3285 PG. 121

Profile No.	Notes Red	Plotted	Job No. 0301.03	Division No. 11	F. B. 3285	PG. 123
	Date	Date	Survey of CARBON MESA LANDSLIDE AREA			
X-Sec. No.	Notes Chk'd.	Checked	Survey by WACKER	Notes DOVER	Date 2 FEB 76	
	Date	Date	Map No.	Indexed	Date AUG 2 1976	

J.N. 0301.03

CARBON MESA LANDSLIDE

2 FEB 1976

RE-RUN OF LEVELS

PARTY

M. WACKER
R. DOVER
G. TOLLISON
C. JOHNSON

STATION	B.S.	H.I.	F.S.	ELEV.

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76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	ADOPTED, EL.
BM CM#3	0.279	401.754		401.475	BM CM#3 ELEV = 401.475 F.B. 2450-80
T.P.	11.552	401.890	11.416	390.338	" #3 " = 401.32 HELD
T.P.	5.809	404.854	2.845	399.045	
E-1	4.399	404.992	4.261	400.593	STA E-1 Elev = 400.438
T.P.	2.833	401.880	5.945	399.047	
T.P.	0.658	390.993	11.545	390.335	
T.P.	0.385	379.652	11.726	379.267	
T.P.	0.370	369.178	10.844	368.808	
B.M CM#2			12.041	357.137	BM CM#2 ELEV = 357.143 F.B. 2450-81
	0.622	357.765		357.143	#2 EL = 356.982
T.P.	0.363	346.878	11.250	346.515	
T.P.	0.387	335.444	11.821	335.057	
T.P.	0.242	323.677	12.009	323.435	
T.P.	7.825	324.159	7.343	316.334	
D-1A	0.376	319.752	4.783	319.376	319.372 LAST RUN STABLE? 319.224 ADJ.
T.P.	0.678	308.681	11.749	308.003	
T.P.	0.352	298.111	10.922	297.759	
T.P.	0.200	297.398	0.913	297.198	
T.P.	0.431	287.090	10.739	286.659	
T.P.	6.488	282.749	10.829	276.261	
E-3			8.860	273.889	E-3 274.199 LAST RUN 273.737 ADJ.

F. B. 3285 Pg. 124 | Job No. 0301.03 | Division No. 11 | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____ | X-Sec. No. ____

Survey of GARBON MESA LANDSLIDE | Notes ____ | Notes Chk'd. ____ Date ____ | Checked ____ Date ____

Survey by WACKER R. DOVER | Date AUG 2 1976

Indexed L. M. PALMERI

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.			
	0.465	274.354		273.889			
T.P.	0.095	262.727	11.722	262.632			
T.P.	2.110	254.517	10.320	252.407			
TP	0.752	243.339	11.930	242.587			
T.P.	1.860	233.999	11.200	232.139			
T.P.	2.600	225.084	11.515	222.484			
D-3	11.978	226.197	10.865	214.219	D-3	214.558 LAST RUN	214.067 ADJ.
T.P.	0.829	215.226	11.800	214.397			
T.P.	0.502	204.773	10.955	204.271			
T.P.	4.763	198.496	11.040	193.733			
C-3	3.950	192.605	9.841	188.655	C-3	188.824 LAST RUN	188.503 ADJ.
T.P.	0.380	181.190	11.795	180.810			
B-2	0.487	173.157	8.520	172.670	B-2	172.673 LAST RUN STABLE ?	172.518 ADJ.
T.P.	1.509	163.492	11.174	161.983			
T.P.	0.542	152.850	11.184	152.308			
T.P.	2.246	143.593	11.503	141.347			
T.P.	0.818	133.331	11.080	132.513			
T.P.	0.953	123.756	10.528	122.803			
T.P.	0.224	112.679	11.301	112.455			
T.P.	0.522	101.496	11.705	100.974			
B-4			9.368	92.128	B-4	91.976 ADJ.	

Profile Notes Red ____ Plotted ____ Job No. 030103 Division No. ____
No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE AREA
X-Sec. Notes Chk'd. ____ Checked ____ Survey by WACKER Notes DOVER Date 2 FEB 76
No. ____ Date ____ Date ____ Map No. ____ Index ____ Date AUG 2 1976

F. B. 3285 Pg. 125

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
	8.140	100.268		92.128	B-4 91.976 ADJ.	
T.P.	0.529	89.881	10.916	89.352		
T.P.	0.299	79.148	11.032	78.849		
T.P.	0.401	67.781	11.768	67.380		
T.P.	0.690	57.086	11.385	56.396		
T.P.	0.721	46.587	11.220	45.866		
T.P.	0.190	35.228	11.549	35.038		
T.P.	0.288	24.646	10.870	24.358		
T.P.	4.085	20.722	8.009	16.637		
BM CM#1			6.303	14.419	BM CM#1 Elev = 14.258 PER F.B. 2633-9	
					Elev = (14.385 LAST RUN) PER F.B. 3285-100 & 116	
					A 3" BT. SPK. IN LEAD IN CONC. CURB NEAR POWER POLE USED 14.26 HELD	

F. B. 3285 PG. 126 Job No. 0301.03 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of CARBON MESA LANDSLIDE AREA Date ____ Date ____ No. ____
Survey by WACKER Notes R. DOVER Notes Chk'd. ____ Checked ____ X-Sec. ____
Indexed J. M. PALMERI Date AUG 2 1976 Date ____ Date ____ No. ____

Notes Ck'd by R. C. BOWERS	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0301.03 Tape 2 Std 84 °F
Office Work	Surveyed by M. E. WACKER
Checked	Notes M. E. W. Date JULY-76
Date	Indexed L. M. PALMER AUG 2 1976

F. B. 3285 PG. 127

J.N. 0301.03

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT OBSERVATIONS

JULY-20-76

REF

F.B. 3285

PARTY

WACKER
DOVER
TOLLISON

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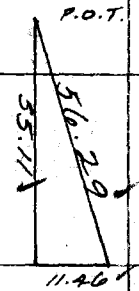
16F309S CE#310 3-68

F. B. 3285 Pg. 128

'B' LINE

JULY-20-1976

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L./R.	NOTES:
B-1	B-6		0+00	—	—	ELECT. MEAS. 455.41 @ 7°11'25" = 451.83
	[redacted]	B-2	4+51.83	0.25	L.	T = 72°.01
						177.65 @ 107°43' = 169.20 177.46 @ 107°32' = 169.19 .21 = 169.20
	[redacted]	P.O.T.	6+21.03	—	—	62.10 @ 114°59' = 56.29 61.99 @ 114°45' = 56.30 = 56.29
		B-4	6+76.14	11.46	L.	HORZ. ANGLE = 11°44'47" PLUS = 55.11 OFFSET = 11.46



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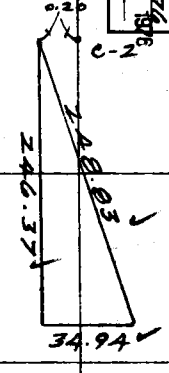
'C' LINE

JULY-20-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L./R.	NOTES:
B-1	E-4		0+00	—	—	ELECT. MEAS.
						338.64 @ 2° 22' 50" = 338.35
						33.98 @ LEV T = 72° = 33.98
						372.33
		C-2	3+72.33	0.20	L.	ELECT MEAS.
						253.77 @ 11° 19' 10" = 248.83
		C-3	6+18.70	34.94	L.	HORZ ANGLE = 8° 04' 17"
						PLUS = 246.37
						OFFSET = 34.94



Notes Ck'd by R. C. BOWERS
Map No.
Office Work
Checked
Date

Survey of Carbon Mesa Landslide
JN 030103 Tape 2 Std 84 °F
Surveyed by M. E. WACKER
Notes M. E. W. Date JULY-76
Indexed [illegible] PALMER AUG 2 1976

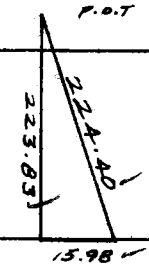
F. B. 3285 PG. 129

F. B. 3285 Pg. 130

'D' LINE

JULY-20-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R.	NOTES:
D-1-A	E-A		0+00	—	—	72°
						12.51 @ Lev = 12.51
		P.O.T.	0+12.51	—	—	
						.01 165.96 @ 104°32' = 160.64
						165.67 @ 104°08' = 160.65
						= 160.64
		P.O.T	1+73.15	—	—	
						.02 233.40 @ 105°57' = 224.40 39
						233.27 @ 105°50' = 224.40
						= 224.40
		D-3	3+96.98	15.98	L.	
						HORIZ. ANGLE = 4° 05' 00"
						PLUS = 223.83
						OFF = 15.98



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'E' LINE — JULY-20-76

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R.	NOTES
E-1	E-4		0+00	—	—	T=68°
						8.69 @ Lev = 8.69
		P.O.T.	0+08.69	—	—	
						.02 228.48 @ 123°53' = 189.66
						228.05 @ 123°43' = 189.67
						= 189.66
		E-3	1+98.35	0.59	L.	

Notes Ck'd by R. C. BOWERS
Map No.
Office Work
Checked
Date

Survey of CARBON MESA LANDSLIDE
JN 0301.03 Tape 2 Std 84 °F
Surveyed by M. E. WACKER
Notes M. E. W Date JULY-26
Indexed J. M. PALMERI AUG 2 1976

F. B. 3285 PG. 131

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NOT ABLE TO RECOVER

'G' LINE 20-JULY-76

F. B. 3285 PG. 132

Profile No.	Notes Red	Plotted	Job No. 0301.03	Division No.	F. B. 3285 PG. 133
	Date	Date	Survey of CARBON MESA LANDSLIDE		
X-Sec. No.	Notes Chkd. R.C. BOWER	Checked	Survey by M. E.W.	Notes M.E.W	Date JULY - 76
	Date	Date	Map No.	Indexed J. M. PALMERI	Date AUG 2 1976

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J.N. 0301.03

CARBON MESA LANDSLIDE

21-JULY-76

RE-RUN OF LEVELS

STATION	B.S.	H.I.	F.S.	ELEV.	
					REF: / PARTY:
			F.B. 3285		DOVER
			F.B. 2450		TOLLISON
					WACKER

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. CM#3	1.398	402.873		401.475	B.M. CM#3 ELEV = 401.475	F.B. 2450-80
T.P.	5.589	405.732	2.730	400.143		
E-1	5.097	405.696	5.133	400.599	STA. E-1 ELEV =	
T.P.	3.079	403.222	5.553	400.143		
T.P.	0.270	401.750	1.742	401.480		
T.P.	1.066	390.856	11.960	389.790		
T.P.	0.757	380.025	11.588	379.268		
T.P.	0.188	369.000	11.213	368.812		
B.M. CM#2	0.562	357.699	11.863	357.137	B.M. CM#2 ELEV = 357.143	F.B. 2450-81
T.P.	0.668	347.185	11.182	346.517		
T.P.	0.538	335.921	11.802	335.383		
T.P.	0.469	324.436	11.954	323.967		
T.P.	6.447	322.313	8.570	315.866		
D-1A	2.812	322.183	2.942	319.371	D-1~~A~~ 319.376	LAST RUN
T.P.	0.269	311.243	11.209	310.974		
T.P.	0.500	299.965	11.778	299.465		
T.P.	0.260	288.773	11.452	288.513		
T.P.	7.408	284.313	11.868	276.905		
T.P.	11.766	284.121	11.958	272.355		
T.P.	6.657	279.863	10.915	273.206		
E-3			5.972	273.891	E-3 273.889	LAST RUN

F. B. 3285 PG. 134 Job No. 0301.03 Division No. 11 Notes Red ___ Plotted ___ Profile ___
Survey of CARBON MESA LANDSLIDE Date ___ Date ___ No. ___
Survey by M.E.W. Notes M. E. WACKER Notes ___ Checked ___ X-Sec. ___
Indexed L. M. PALMER Date AUG 2 1976 Date ___ Date ___ No. ___
R. C. BOWERS

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.			
	5.943	279.834		273.891	✓		
T. P.	1.642	274.848	6.628	273.206	✓		
T. P.	1.415	264.516	11.747	263.101	✓		
T. P.	1.293	253.872	11.937	252.579	✓		
T. P.	3.225	245.258	11.839	242.033	✓		
T. P.	2.520	236.464	11.314	233.944	✓		
T. P.	0.670	225.134	12.000	224.464	✓		
D-3	11.950	226.168	10.916	214.218	✓ D-3	214.219	LAST RUN
T. P.	0.702	215.062	11.808	214.360	✓		
T. P.	0.460	204.730	10.792	204.270	✓		
T. P.	3.825	197.057	11.498	193.232	✓		
C-3	2.721	191.421	8.357	188.700	✓ C-3	188.6[illegible]	LAST RUN
T. P.	0.739	180.328	11.832	179.589	✓		
T. P.	7.520	175.995	11.853	168.475	✓		
B-2	0.452	173.137	3.310	172.685	✓ B-2	[illegible]	LAST RUN
T. P.	1.284	163.207	11.214	161.923	✓		
T. P.	1.428	152.885	11.750	151.457	✓		
T. P.	2.637	143.995	11.527	141.358	✓		
T. P.	0.678	133.203	11.470	132.525	✓		
T. P.	0.330	123.130	10.403	122.800	✓		
T. P.			10.677	112.453	✓		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0301-03 Division No. 11 F. B. 3285 PG. 135
X-Sec. No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
Notes Checked R. C. BOWERS Survey by M. E. W. Notes M. E. W. Date JULY-76
Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date AUG 2 1976

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
	3.476	115.929		112.453		
T. P.	0.014	104.213	11.730	104.199		
B-A	9.862	101.985	12.090	92.123	B-A 92.128	LAST RUN
T. P.	0.279	90.743	11.521	90.464		
T. P.	0.579	79.410	11.912	78.831		
T. P.	0.680	68.178	11.912	67.498		
T. P.	0.625	57.021	11.782	56.396		
T. P.	0.531	46.403	11.149	45.872		
T. P.	0.927	35.478	11.852	34.551		
T. P.	0.328	23.972	11.834	23.644		
B.M. CM#1			9.548	14.424	BM CM#1 ELEV = 14.258 PER. F.B. 2633-9	
					14.419 = LAST RUN = Pg. 127	
					A 3" BT. SPK. IN LEAD IN CONC. CURB NEAR POWER POLL # 1017697E	

F. B. 3285 PG. 136 Job No. 0301.03 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of CARBON MESA LANDSLIDE Date ____ Date ____ No. ____
Survey by M. E. W. Notes M. E. WACKER Notes R. C. BOWERS Checked ____ X-Sec. ____
Indexed I. M. PALMER Date AUG 2 1976 Date ____ Date ____ No. ____

Notes Ck'd by R. HILARIO	Survey of Carbon Mesa Slides
Map No.	JN 0301.03 Tape H.P. Std °F
Office Work	Surveyed by Tom Mankey
Checked R. HILARIO	Notes Tom M. Date 7-[illegible]-77
Date	Indexed G.D. BAILEY SEP [illegible] 1977

F. B. 3285 PG. 137

J.N. 0301.03

CARBON MESA SLIDES

HORIZONTAL OBSERVATIONS

"B" "C" "D" "E" LINES

Mankey
Dover
Lund
Scherb

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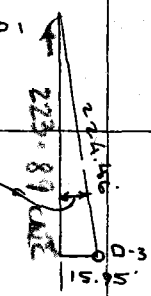
76F3095 CE#310 3-68

"D" LINE

July 1977

ON LINE From	ON LINE To	SIGHT ON STATION	PLUS	Offset Amt	Offset R L	REMARKS
D-1A	E-4		0 + 00.00			Fd I.P. & C.E. Tag in lawn F.B. 2433-35 F.B. 2450-157
		(Set) P.O.T. 1	0 + 12.84	0	—	D-1A To P.O.T. 1 used 300' Steel Tape #101 12.84' @ T= 80° = 12.84'
		(Fd) P.O.T. (2)	1 + 73.23	0.07'	L	P.O.T. 1 To P.O.T. (2) 300' Steel Tape #101 165.90' T=80° Δ=14° 48' = 160.395' 165.70' T=80° Δ=14° 33' = 160.385'
		(Fd) D-3	3 + 97.12	15.95	L	P.O.T. (2) To D-3 300' Steel Tape #101 233.59' T=66° Δ=16° 03' = 224.46' 233.51' T=66° Δ=15° 59' = 224.45'
						
		E-4	7 + 24.56	0	-	D-1A To E-4 H.P. E.V.M. = +0.05' Slope = 724.495' Δ = 1°27' 45" Horiz = 724.26' + 0.30' Bracket 724.56'

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76F309S CE#310 3-69

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"C" LINE — JULY 77

ON LINE From	ON LINE To	SIGHT ON STATION	PLUS	OFFSET Amt.	OFFSET R L	Remarks
B-1	E-4		0 + 00			
		Set P.O.T. 1	3 + 39.03	0	-	B-1 To P.O.T. 1 H.P. E.V.M. 0.00 Slope = 339.31 Δ = 2° 20' 45" Horiz. 339.03
		C-2	3 + 72.39	0.20	L	P.O.T. 1 To C-2 300' Steel Tape #101 Std. @ T = 84° 33.36 @ T = 72° = 33.36'
		C-3	6 + 18.74	34.98	L	C-2 To 1½" Stk. set 90° to C-3 300' Steel Tape #101 250.16' T = 72° Δ = 10° = 246.34' 250.30' T = 72° Δ = 10° 09' = 246.36'
		E-4	10 + 74.62	0	-	P.O.T. #1 To E-4 H.P. E.V.M. 0.00 Slope = 739.88' Δ = 4° 31' 10" Horiz = 735.59'

Notes Ck'd by R. HILARIO
Map No.
Office Work
Checked R. HILARIO
Date

Survey of Carbon Mesa Slides
JN 0301.03 Tape H.P. Std °F
Surveyed by Tom Mankey Date 7-20-77
Notes
Indexed G. D. BAILEY SEP 6 1977

F. B. 3286 PG. 139

F.B. 3285 PG 140

"B" LINE

JULY 1977

ON LINE From	ON LINE To	SIGHT ON STATION	PLUS	Offset Amt	Offset R / L	Remarks
B-1	B-6		0+00.00	0	–	B-1 a C.E. Brass Cap Mon.
		B-2	4+51.84 ✓	0.25	L	B-1 To B-2 H.P. E.V.M. Slope = 455.42 ∡ = 7° 11' 22" Horiz. = 451.84 ✓
		(Set) P.O.T.	6+21.03 ✓	0	–	B-2 To P.O.T. 300' Steel Tape #101 Std. 84° 177.80' T = 66° ∡ = 17°53' = 169.19' ✓ 178.04' T = 66° ∡ = 18°07' = 169.19'
		B-4 ~~B-3~~	~~6+76.13~~	11.46'	L	P.O.T. To 1x2 stk. & nail set at 90° To B-4 59.07' T = 66° ∡ = 21°06' = 55.10' ✓ 58.62' T = 66° ∡ = 19°56' = 55.10' ✓
		B-6	9+23.41 ✓	0	–	B-1 To B-6 H.P. E.V.M. 0.00 Slope 926.55 ∡ = 4° 43' 13" Horiz. = 923.41 ✓

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"E" LINE — JULY 1977

ON LINE From	ON LINE To	SIGHT ON STATION	PLUS	Offset Amt	Offset R L	REMARKS
E-1	E-4		0+00	0	—	E-1 a C. Brass Cap Mon
		P.O.T. Fd	0+08.71	0	-	P.O.T. a 1"x2" Stk & nail F.B. 3285-131 300' Steel Tape #104 Std. at 84° 8.71 @ T=68° = 8.71
		E-3	1+98.38	0.57	L	P.O.T. To E-3 300' Steel Tape #101 228.25 T=64° ∡=33°47' = 189.68 228.76 T=64° ∡=33°59' = 189.66
		E-4	6+94.17	0	—	H.P. E.V.M. = +0.00 Slope=701.31 ∡=8°11'00" Hor.=694.17

Notes Ck'd by R. HILARIO
Map No.
Office Work R. HILARIO
Checked
Date

Survey of Carbon Mesa Slides
JN 0301.03 Tape H.P. Std. °F
Surveyed by Tom Mankey
Notes Tom M. Date 7-1977
Indexed G. D. BAILEY SEP 8 1977

F.B. 3285 PG. 141

Profile No.	Notes Red	Plotted	Job No. 0301.03	Division No.	F. B. 3285	Pg. 143
	Date	Date	Survey of Carbon Mesa Slides			
X-Sec. No.	Notes Chk'd.	Checked R. HILARIO	Survey by L. Mankey	Notes Tom M.	Date 7-28-77	
	Date	Date	Map No.	Indexed G. D. BAILEY	Date SEP 6 1977	

J. N. 0301.03

CARBON MESA SLIDES

VERTICAL OBSERVATIONS

"B" "C" "D" "E" LINES

Mankey
Dover
Lund
Scherb

STATION	B. S.	H. I.	F. S.	ELEV.

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7 8-70

76-L-298 CE 307 8-70

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76-1

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M.C.M.#3 (Fd)	0.360	401.835		401.475	✓ B.M.C.M.#3 EL.=401.475'	F.B.2450-80
T.P.	4.320	404.952	1.203	400.632	✓	
E-1	4.298	404.897	4.353	400.599	✓ E-1	
T.P.	0.363	400.997	4.263	400.634	✓	
T.P.	0.852	391.206	10.643	390.354	✓	
T.P.	0.764	380.028	11.942	379.264	✓	
T.P.	0.438	369.257	11.209	368.819	✓	
T.P.	0.973	359.794	10.436	358.821	✓	
B.M.C.M.#2 (Fd.)	0.315	357.460	2.649	357.145	✓ B.M.C.M.#2 Elev.= 357.143'	✓ F.B. 2450-81
T.P.	0.549	347.071	10.938	346.522	✓	
T.P.	0.412	335.624	11.859	335.212	✓	
T.P.	0.358	324.875	11.107	324.517	✓	
T.P.	6.390	322.403	8.862	316.013	✓	
D-1A (Fd.)	0.617	319.960	3.060	319.343	✓ D-1A	
T.P.	0.618	309.356	11.222	308.738	✓	
T.P.	0.561	298.384	11.533	297.823	✓	
T.P.	0.653	287.614	11.423	286.961	✓	
T.P.	5.003	280.940	11.677	275.937	✓	
T.P.	8.800	277.931	11.809	269.131	✓	
E-3 (Fd.)	4.022	277.903	4.050	273.881	✓ E-3	
T.P.			11.672	266.231	✓	

F. B. 3285 PG. 144

Job No. ____ Division No. ____ Notes Red ____ Plotted ____ Profile ____

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chk'd. ____ Checked ____ X-Sec. ____

Indexed G. D. BAILEY Date SEP 6 1977 Date ____ Date ____ No. ____

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P. (Fd.)	0.301	266.532		266.231	T.P. per Pg. 144	
T.P.	1.100	256.320	11.312	255.220		
T.P.	0.202	245.336	11.186	245.134		
T.P.	0.770	234.183	11.923	233.413		
T.P.	1.005	223.423	11.765	222.418		
D-3	8.550	222.746	9.227	214.196	D-3	
T.P.	0.558	211.519	11.785	210.961		
T.P.	0.183	199.986	11.716	199.803		
C-3	1.135	189.865	11.256	188.730	C-3	
T.P.	0.277	178.539	11.603	178.262		
T.P.	7.163	175.598	~~8~~ 10.104	168.435		
B-2	0.936	173.632	2.902	172.696	B-2	
T.P.	1.155	163.060	11.727	161.905		
T.P.	0.878	152.352	11.586	151.474		
T.P.	2.193	144.528	10.017	142.335		
T.P.	0.424	133.875	11.077	133.451		
T.P.	1.530	124.346	11.059	122.816		
T.P.	1.163	115.932	~~9.567~~ 9.577	114.769		
T.P.	0.560	104.680	11.812	104.120		
T.P.	~~7.54~~ 7.958	103.130	9.508	95.172		
B-~~4~~ 4			10.993	92.137	B-~~4~~ 4	

Profile Notes Red _____ Plotted _____ Job No. 8301.03 Division No. _____ F. B. 3285 Pg. 145
No. _____ Date _____ Date _____ Survey of Carbon Mesa Slides
X-Sec. Notes Chk'd. _____ Checked R. HILARIO Survey by Tom M. Notes Tom M. Date 7-28-77
No. _____ Date _____ Date _____ Map No. _____ Indexed R. D. BAILEY Date SEP 6 1977

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F. B. 3285 PG. 146 | Job No. 0701.03 Division No. | Notes Red | Plotted | Profile
Survey of Carbon Mesa Slides | Date | Date | No.
Survey by Tom M. Notes | Notes Chk'd. | Checked R. HILARIO | X-Sec.
Indexed G. D. BAILEY | Date SEP 8 1977 | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
B-~~4~~	8.544	100.681		92.137	(CONT.) B-4	
T.P.	0.788	92.417	9.052	91.629		
T.P.	0.517	81.467	11.467	80.950		
T.P.	0.647	70.202	11.912	69.555		
T.P.	0.792	59.256	11.738	58.464		
T.P.	1.032	50.185	10.103	49.153		
T.P.	0.348	39.230	11.303	38.882		
T.P.	0.421	27.958	11.893	27.337		
T.P.	3.884	19.938	11.704	16.054		
BM CM#1 (Fd.)			5.495	14.443	B.M. CM#1 ELEV= 14.258	PER F.B. 2633-9

FOUND A 3" BT. SPK. IN LEAD IN CONC CURB NEAR POWER POLE # 1017697E AT STREET SIDE OF POLE

Profile No.	Notes Red	Plotted	Job No. 0021-92	Division No. 11	F. B. 3285 PG. 147
	Date	Date	Survey of CARBON MESA LANDSLIDE		
X-Sec. No.	Notes Ch'k'd. P. HILARIO	Checked	Survey by LIND	Notes DALE	Date 3-28-78
	Date	Date	Map No.	Indexed G. D. BAILEY	Date MAY 23 1978

J. N. 0021.92

CARBON MESA LANDSLIDE

VERTICAL OBSERVATIONS

"B" "C" "D" & "E" LINES

STATION	B. S.	H. I.	F. S.	ELEV.	
					TERRANOVA — DALE — LIND
					PETERSON DOVER

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M.C.M.#3	1.854	403 329		401.475	B.M. C.M.#3 EL=	401.475 F.B 2450-80
T.P.	5 666	405 412	3 583	399 746		
E-1			4 859	400 553	E-1	
T.P.	0 239	395 538	10 113	395 299		
T.P.	0 340	384 563	11 315	384 223		
T.P.	0 697	373 868	11 392	373 171		
T.P.	1103	363 609	11 362	362 506		
B.M.CM#2	0556	357 704	6461	357 148	B.M. C.M#2 EL=357.143	F.B 2450-81
TP	0591	346 521	11 774	345 930		
TP	0761	335 289	11 993	334 528		
TP	0625	324 523	11391	323 898		
TP	7 933	323 708	8748	315 775		
D-1-A	3 687	323.059	4 336	319 372	D 1 A	
T.P.	1.265	313.309	11.015	312.044		
T.P.	0.215	301.765	11 759	301 550		
T.P.	0.552	291.079	11.238	290.527		
T.P.	4 375	284.648	10.806	280.273		
T.P.	3 653	277.777	10524	274.124		
T.P.	0 550	269.475	8 852	268.925		
T.P.	11.230	270.190	10.515	258.960		
T.P.	9 815	278 773	1.232	268.958		

F. B. 3285 PG. 148 Job No. 0021.92 Division No. 11 Notes Red Plotted Profile
Survey of CARBON MESA LAND SLIDE Date Date No. X-Sec.
Survey by LIND Notes DALE Notes Chk'd. R. HILARIO Checked
Indexed G. D. BAILEY Date MAY 23 1978 Date Date No.

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		278 773				
E-3			8.289	~~269.484~~ 270484	E-3	
T.P.	1.175	268.508	11 440	267.333		
T.P	1 563	258.159	11 912	256.596		
T.P	1.803	248.728	11.234	246.925		
T.P	1.904	238.955	11.677	237.051		
T.P	0.702	228.289	11.368	227.587		
	1.285	218.183	11 391	216.898		
D-3			9.073	209.110	D-3	
T.P	3.784	220.597	1 370	216813		
T.P	0 525	209.475	11 647	208.950		
T.P	0 460	198.550	11 385	198.090		
C-3	2.350	189.073	11.827	186.723	C-3	
T.P	1 782	180.760	10.095	178.978		
B-2	0.392	173.040	8.112	172.648	B-2	
T.P	0.682	162 494	11.228	161.812		
T.P	0.316	151.345	11.465	151.029		
T.P	0 378	140.157	11.566	139.779		
T.P.	0 515	129.222	11.450	128.707		
T.P.	0 902	119 151	10.973	118.249		
T.P	1.143	108.736	11 558	107.593		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 002192 Division No. ____ F.B. 3285 Pg. 149
X-Sec. No. ____ Date ____ Date ____ Survey of CARBON MESA LANDSLIDE
Notes Ch. Rd. HILARIO Checked ____ Survey by DALE CLIND Notes RCD Date 3-13-78
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date MAY 2 3 1978

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		108.736				
T.P.	3.688	100.826	11.598	97.138		
B - $4	7.857	97.675	11.008	89.818	B - $4	
T.P.	0.688	87.316	11.047	86.628		
T.P.	0.333	75.836	11.813	75.503		
T.P.	0.303	64.513	11.626	64.210		
T.P.	0.454	53.142	11.825	52.688		
T.P.	0.216	41.846	11.512	41.630		
T.P.	0.235	31.343	10.758	31.088		
TP	2.368	22.318	11.393	19.950		
Bm cm #1 (FD)			7.918	14.400	Bm Cm-1 ELEV = 14.258 PER FB 2633-9	
					FD A 3" BT SPK. IN LEAD IN CONC CURB NEAR	
					P.P.# 1017697E AT STREET SIDE OF POLE	

F. B. 3285 Pg. 150 Job No. 002192 Division No. Notes Red Plotted Profile
Survey of CARBON MESA LANDSLIDE Date 3-13-78 Date No.
Survey by DALE & LIND Notes R.C.D. Notes Ch. R. HILARIO Checked X-Sec.
Indexed G. D. BAILEY Date MAY 23 1978 Date Date No.

Notes Ck'd R. HILARIO	Survey of CARBON MESA LANDSLIDE
Map No.	JN 0021.92 Tape H.P. Std. — °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 3-7-78
Date	Indexed G. D. BAILEY MAY 23 1978

F. B. 3235 PG. 151

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT STUDY OBSERVATIONS

"B", "C", "D", "E", LINES

ENGLISH	LIND	TERRANOVA
CARO	DALE	PETERSON
BRADLY	DOVER	

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76F309S CE#310 3-69

F. B. 3285 PG. 152

1) 3-23-50
4) 13°47'20"
M = 3°23'50"

MARCH 1978

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSETS AMT	OFFSETS L/R	"B" - LINE
B-1	B-6	B-2	0+00	0.30	L	H.P. DIST E-4 TO B-2 (3-13-78) 471.975 @ 87°31'20" = 471.534
		B-4	4+51.84	14.48	L	H.P. DIST E-4 TO B-5 252.235 @ 104°20'47" = 244.37 − 243.94 Calc.
		B-6	9+23.37	0.00	—	H.P. DIST B-1 to B-6 (3-7-78) 926.39 @ 94° 37' 28" = 923.37'

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"C" - LINE

MARCH 1978

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSETS AMT	OFFSETS L/R	
B-1	E-4		0+00			
		C-2	3+72.39	0.25 ~~0.30~~	L	H.P. DIST E-4 TO C-2 (3-13-78) ~~471.975 @ 89° 31' 20" = 471.53~~ - 704.745 @ 94° 56' 30" = 702.13 ✓
		C-3	6+22.19	42.99	L	H.P. DIST. E-4 TO C-3 (3-13-78) 468.195 @ 103° 57' 30" = 454.37 ✓ - 452.33 Calc.
		E-4	10+74.52	0.00	—	B-1 to E-4 (3-7-78) H.P. DIST. 1076.92 @ 86° 10' 28" = 1074.52 ✓

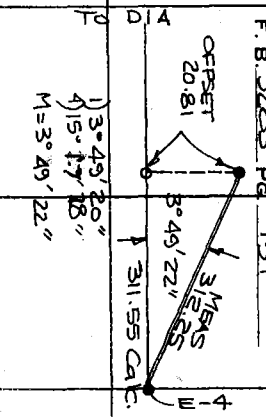
Notes Ck'd by R. HILARIO
Map No.
Office Work
Checked
Date

Survey of CARBON MESA
JN 0021.42 Tape Std °F
Surveyed by C.K. LIND
Notes R. DOVER Date 3-78
Indexed G.D. BAILEY MAY 23 1978

F. B. 3285 PG. 153

1) 5° 25 45"
2) 21 43 10"
M = 5° 25' 47"

F.B. 3285 Pg. 154



"D"- LINE

MARCH 1978

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	"REMARKS"
D-1A	E-4					
		D-3	4+12.94	20.81	LEFT	H.P. DIST E-4 TO D-3 325.12 @ 106° 10' 25" = 312.25 ✓ - 311.55 Calc dist.
		E-4	7+24.49	0.00	—	H.P. DIST. D-1A TO E-4 (3-7-78) 724.72 @ 91°27' 25" = 724.49

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSETS AMT	OFFSETS L/R	"REMARKS"
		"E" LINE				MARCH 1978
E-1	E-4		0+00			
		E-3	2+02.60	0.58	L	H.P. DIST. E-4 TO E-3 (3-13-78) 492.34 @ 98° 23' 30" = 491.48 ✓
		E-4	6+94.08	0.00	—	H.P. DIST E-1 to E-4 (3-7-78) 701.17 @ 98° 09' 25" = 694.08 ✓

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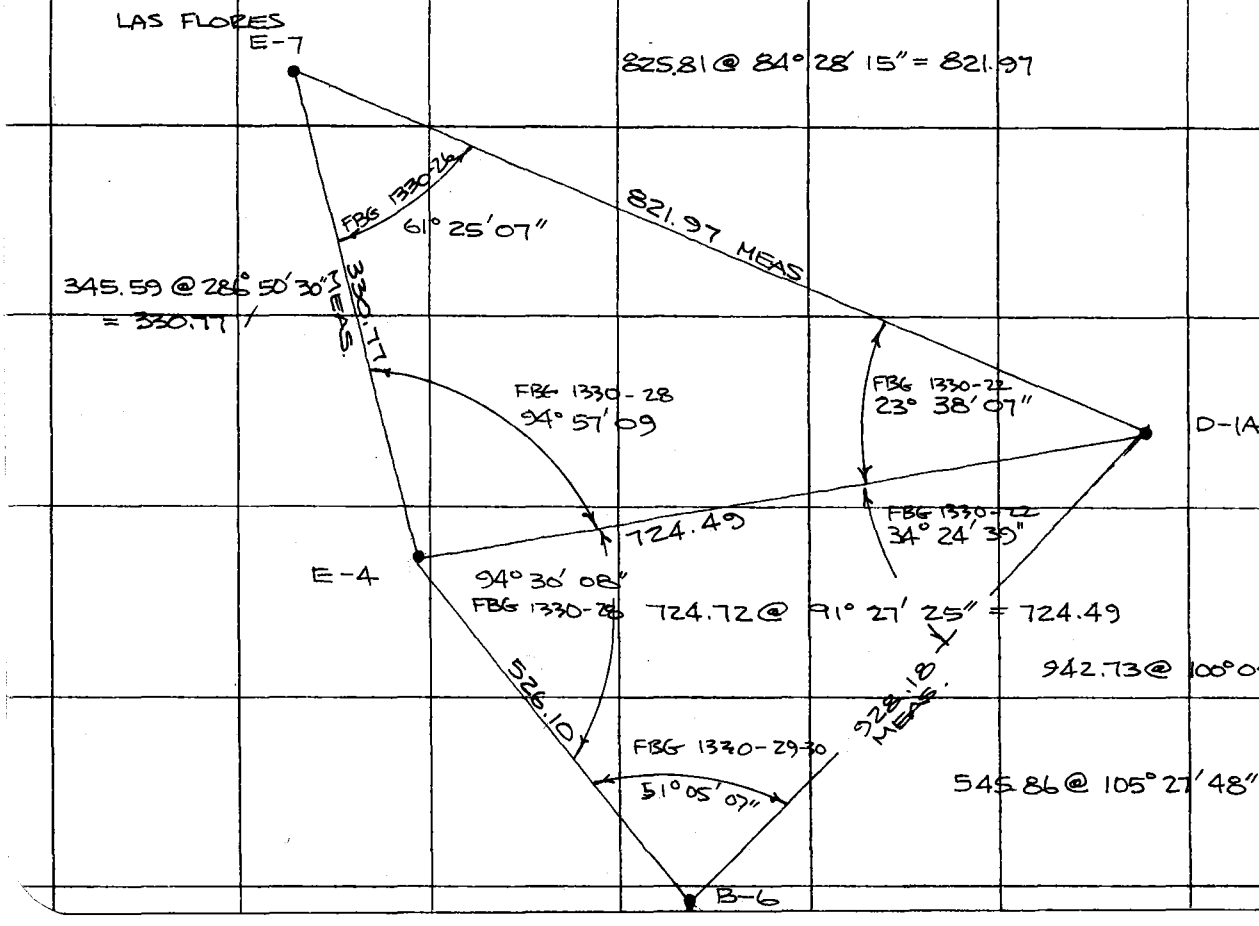

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Office Work
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Date

Survey of CARBON MESA
JN 0071.92 Tape ___ Std ___ °F
Surveyed by C.K. LIND
Notes R. DOVER Date 3-78
Indexed G.D. BAILEY MAY 2 3 1978

F. B. 3285 PG. 155

Profile No.	Notes Red / Date	Plotted / Date	Job No. 0021.92	Division No.	F.B. 3285	PG. 157
X-Sec. No.	Notes Chk'd. / Date	Checked / Date	Survey of Carbon Mesa Landslide			
			Survey by English Notes Ed	Date 5-8-78		
			Map No.	Indexed B. D. BAILEY	Date MAY 23 1978	

Carbon Mesa Landslide
J.N. 0021.92

Vertical Observations
Lines: B, C, D & E.

May 8, 1978.
English & Dale
Caro
Scherb & Bradley.

STATION	B.S.	H.I.	F.S.	ELEV.

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76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
fd. B.M. C.M. #3	2 116	403 591		401 475	B.M. C.M. #3, F.B. 3285-148, C.S. brass cap Mon.
T.P.	6 127	405 711	4 007	399 584	
E-1	2 123	402 657	5 177	400 534	2" C.E. Brass cap.
T.P.	0 678	391 810	11 525	391 132	
T.P.	0 490	380 773	11 527	380 283	
T.P.	1 68	370 554	11 387	369 386	
T.P.	2 538	363 386	9 706	360 848	
fd. B.M. C.M. #2	0 802	357 936	6 252	357 134	C.M. #2, C.E. Brass cap mon.
T.P.	0 724	347 167	11 493	346 443	
T.P.	0 384	336 606	10 945	336 222	
T.P.	0 492	326 200	10 898	325 708	
T.P.	5 303	321 557	9 946	316 254	
D-1A	0 715	320.048	2.224	319.333	D-1A 3/4" I.P.
T.P.	0 465	309.066	11.447	308 601	
T.P.	0 427	298 326	11.167	297.899	
T.P.	0.384	286 846	11.864	286 462	
T.P.	0 296	275 791	11.351	275.495	
T.P.	3.888	268 217	11.462	264.329	
T.P.	1.588	265.634	4.171	264.046	
T.P.	11.453	271 795	5 292	260.342	
E-3			1 644	270 151	E-3

F. B. 3285 Pg. 158 | Job No. 0021.92 | Division No. | Notes Red | Plotted | Profile
Survey of Carbon Mesa Landslide | Date | Date | No.
Survey by English | Notes Ed. | Notes Chk'd. | Checked | X-Sec.
Indexed G. D. BAILEY | Date MAY 23 1978 | Date | Date | No.

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		271 795				
T.P.	0.904	261.246	11.453	260 342		
T.P.	0 344	250 543	11.047	250 199		
T.P.	0 523	239 824	11 242	239 301		
T.P.	1 021	229 553	11 292	228 532		
T.P.	0 521	218 636	11438	218 115		
D-3			9 903	208 733		
T.P.	0 537	217 060	2113	216 523		
T.P.	0 442	205 949	11553	205 507		
	3 486	197 838	11597	194 352		
C-3			11197	186 641		
T.P.	0 588	186 899	11527	186 311		
T.P.	4 072	179 517	11454	175 445		
B-2	3 123	175 794	6846	172 671		
T.P.	1 462	165 457	11 799	163 995		
T.P.	1 047	155 098	11406	154 051		
T.P.	0 896	144 507	11 487	143 611		
T.P.	1 504	134 989	11 022	133 485		
T.P.	1 118	124 923	11 184	123 805		
T.P.	0 424	113 924	11423	113 500		
T.P.	0 231	102 577	11578	102 346		

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 002192 Division No. 11 Survey of CARBON MESA LANDSLIDE Survey by LIND Notes LIND Date 5-8-78 Map No. ____ Indexed G. D. BAILEY Date MAY 23 [illegible]

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

F. B. 3285 Pg. 159

76-L298 CE 307 3-61

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F.B. 3285 Pg. 160 Job No. 0021.92 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of LARSON MESA LANDSLIDE Date ____ Date ____ No. ____ X-Sec. ____
Survey by LIND Notes LIND Notes Chkd. ____ Checked ____ No. ____
Indexed G. D. BAILEY Date MAY 23 1978 Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.		
		102 577				
T.P.	5743	100 982	7338	95239		
B-4			11378	89604		
T.P.	0213	91 181	10014	90968		
T.P.	0518	80 172	11527	79654		
T.P.	0240	68 947	11465	68707		
T.P.	0567	57 893	11621	57326		
T.P.	0539	46 577	11855	46038		
T.P.	0344	35 007	11914	34663		
T.P.	0275	23 927	11355	23652		
B.M.CM#1			9498	14429	B.M. CM #1 EL= 14.258	FB 2633-9

Notes Ck'd by	Survey of Carbon Mesa Slide
Map No.	JN 0021.92 Tape H.P. Std ___ °F
Office Work	Surveyed by C.K. Lind
Checked	Notes Lind Date 5-11-78
Date	Indexed G.D. BAILEY MAY 2 3 1978

F. B. 3285 PG. 161

J.N. 0021.92

CARBON MESA LANDSLIDE

HORIZONTAL MOVEMENT STUDY

OBSERVATIONS

LINES B, C, D, E

ENGLISH LIND - DALE
DOVER
CARO
SCHERB

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76F309S CE#310 3-69

F. B. 3185 PG. 162

B- LINE

MAY 11, 1978

on line From	on line to	Sight on Station	Pluss	Offsets Amt	Offsets L./R.	
B-1	B-6		0+00			
		B-2	4+51.86	0.31	L.	B-6 to B-2 471.92 @ 87°33'24" = 471.49 ✓
		B-4	6+79.74	14.76	L.	B-6 to B-4 251.60 @ 104°28'27" = 243.61 ✓
		B-6	9+23.35	0.00	—	B-1 to B-6 926.62 @ 94°48'48" = 923.35 ✓

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ON LINE — C - LINE OFFSETS — 5-12-78

FROM	to	Sight on Station	Pluss	AMT	L./R.	
B-1	E-4					
		gone C-2 2-80 J.A.M.	3+72.39	0.26	L.	E-4 to C-2 704.77 @ 94°58'47" = 702.11 ✓
		C-3	6+22.41	43.61	L.	E-4 to C-3 466.91 @ 104°28'27" = 452.09 ✓
		E-4	10+74.50	0.00	—	B-1 to E-4 10+76.79 @ 86°15'35" = 1074.50 ✓

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of CARBON MESA
JN 0021.92 Tape HR Std °F
Surveyed by LIND
Notes LIND Date
Indexed G. D. BAILEY MAY 23 1978

F. B. 3185 PG. 163

F.B. 3185 PG. 164

D - LINE

5-12-78

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L./R.	
D-1-A	E-4	D-3	4+13.96	21.08	L.	E-4 to D-3 323.58 @ 106°22'18" = 310.46
		E-4	7+24.42	0.00		D-1A to E-4. 724.70 @ 91°36'18" = 724.42

E - LINE

5-12-78

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L./R.	
E-1	E-4					E-4 to E-3
		E-3	2+02.94	0.60	L	492.03 @ 93°29'28" = 491.12
		E-4	6+94.06	0.00	-	E-1 to E-4 701.46 @ 98°19'49" = 694.06

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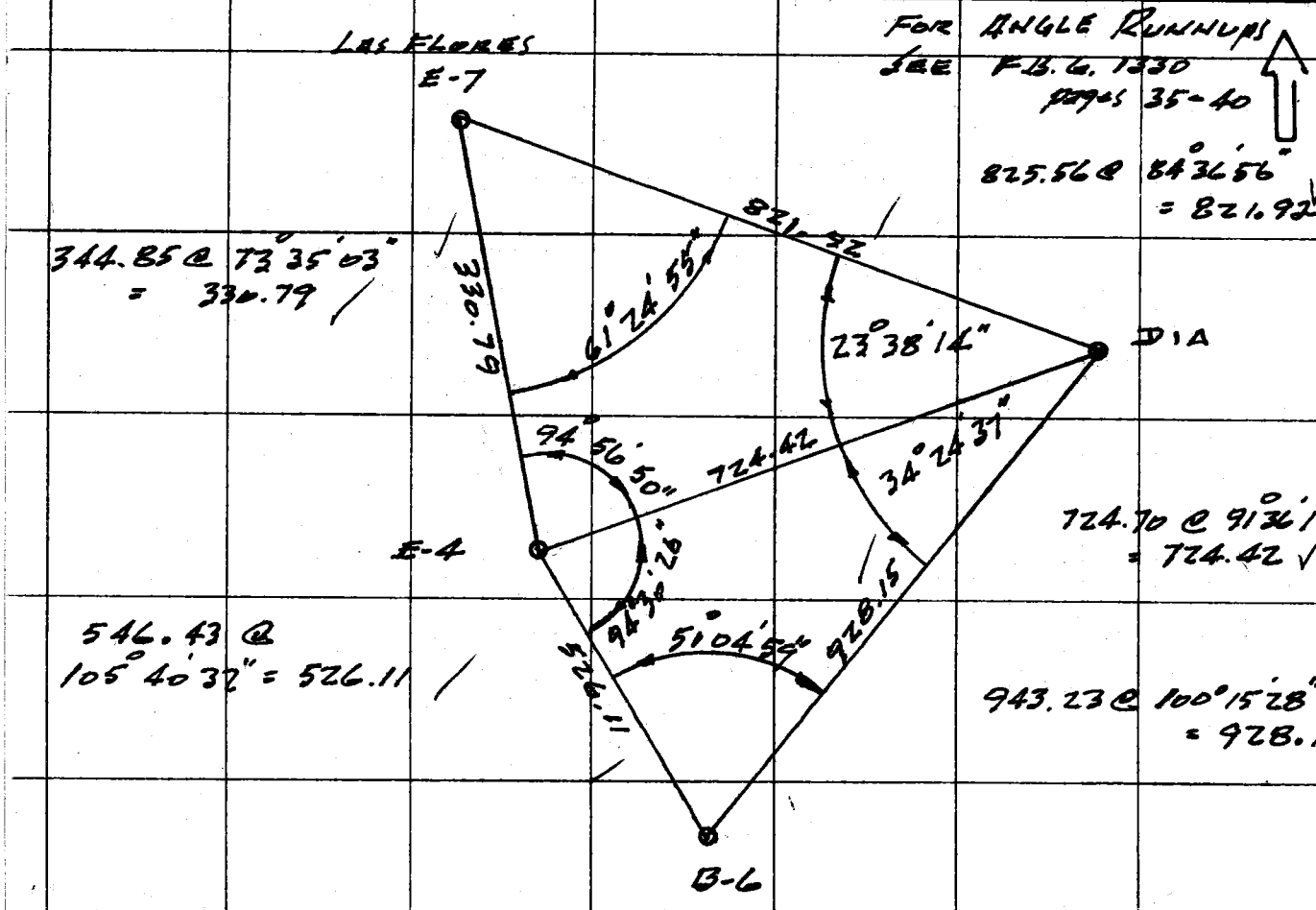

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Map No.
Office Work
Checked
Date

Survey of CARBON MESA
JN 0021.92 Tape H.P. Std °F
Surveyed by LIND
Notes LIND Date 5-12-78
Indexed G. D. BAILEY MAY 23 1978

F. B. 3285 PG. 165

Profile No.	Notes Red	Plotted	Job No. 0206.91	Division No.	F. B. 3285 PG. 167
	Date	Date	Survey of Carbon Mesa Slides		
X-Sec. No.	Notes Chk'd.	Checked	Survey by E. Landa	Notes E.L.	Date 2-4-80
	Date	Date	Map No.	Indexed	Date MAY 16 1980

L. HOLMAN

J. N. 0206.91

CARBON MESA SLIDES

VERTICAL OBSERVATIONS

LINES B, C, D, & E

FEB. 4 - 1980

Pty. Landa
Moody
Caro
Bankson

STATION	B. S.	H. I.	F. S.	ELEV.

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76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

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2-4-80 Carbon Mesa Slides

STATION	B. S.	H. I.	F. S.	ELEV.	
(FND) B.M. C.M. #3	3 068	404 543		401 475	B.M. C.M. #3 ELEV = 401.475 F.B. 3285 - 158, C.S.Br. Ca Man
E-1	4 068	404 519	4 092	400 451	E-1
TP	0 240	395 099	9 660	394 859	TP
TP	0 368	385 537	9 930	385 169	TP
TP	0 250	375 912	9 875	375 662	TP
TP	0 769	366 851	9 830	366 082	TP
B.M. C.M. #2	0 313	357 444	9 720	357 131	B.M. C.M. #2
TP	0 474	347 960	9 958	347 486	TP
TP	0 287	338 850	9 397	338 563	TP
TP	0 394	329 568	9 676	329 174	TP
TP	3 415	323 003	9 980	319 588	TP
			2 998	320 005	S.E. COR. of Conc. SLAB - Back-yard of HSE # 22509
NOTE: D-1A GONE					
(SET) D-1B		(Pick-up See Rt. of Pg.)		319 299	D-1B EL = 1" I.P. CONC. PLUG W/CE TAG 2' W. OF THE SLY. COR OF THE CONC. SLAB IN THE Back yd of HSE # 22509 OR CARBON Cyn Rd.
	0 718	320 723			
TP	0 377	311 530	9 570	311 153	TP
TP	0 276	302 071	9 735	301 795	TP
TP	0 330	292 781	9 620	292 451	TP
TP	0 274	283 765	9 290	283 491	TP
TP	3 568	277 753	9 580	274 185	
TP			9 400	268 353	

Pick-up SE Cor = 320.005
CONC. SLAB
+3.900
H.I = 323.905
-4.606
D-1B = 319.299

F.B. 3285 Pg. 168
Job No. 0206.91
Division No.
Notes Red
Plotted
Profile
Survey of Carbon Mesa Slides
Date
No.
Survey by E. Landa
Notes E.L.
Notes Chk'd.
Checked
X-Sec.
Indexed
Date
Date
No.

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	2-4-80' Carbon Mesa Slides	
CONT						
TP	9350	277 703		268 353'	TP	
	1461	272 129	7 035	270 668'		
E-3			2 188	269 941'	E-3	
	(NOTE: SIDE SHOT TO E-3)				2" I.P. Conc. plug w/ Bt. Spk & W, Ely side slope of Cyn.	
TP	0 236	262 701	9 664	262 465'	TP	
TP	1 322	255 067	8 956	253 745'	TP	
TP	2 046	247 345	9 768	245 299'	TP	
TP	1 193	239 228	9 310	238 035'	TP	
TP	4 133	234 411	9 550	229 678'	TP	
TP	0 626	225 234	9 803	224 608'	TP	
TP	2 054	218 053	9 235	215 999'	TP	
D-3			9 740	208 313'	D-3 El:	FP
	(NOTE: SIDE SHOT TO D-3)				2" I.P. w/ Br. Cp. Co. Engr. ± 15' E. of Cyn Brk.	
TP	2359	219 512	0 900	217 153'	TP	
TP			9 476	210 036'	TP	
	CONT					

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0206.91 Division No. ____ F.B. 3285 PG. 169
X-Sec. No. ____ Date ____ Date ____ Survey of Carbon Mesa Slides
Notes Chk'd. ____ Checked ____ Survey by E. Conda Notes EL Date 2-4-80
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

H. HOLMAN MAY 16 1980

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	2-4-80 Carbon Mesa Slides	
CONT	0 595	210 631		210 036'	TP	
	0 230	201 113	9 748	200 883'		
	4 174	196 283	9 006	192 107'		
C-3			9 948	186 335'	C-3, Elev:	FB. 3285-
	(NOTE: SIDE SHOT TO C-3)				2" I.P. w/ Br. Cp. Co. Engr. Top of KNOB.	
	0 500	187 303	9 480	186 803'	N.W. of B-2	
	5 136	182 614	9 825	177 478'		
B-2	0 728	173 382	9 960	172 654'	B-2, Elev =	FB 3285-
					2" I.P. Conc. Plug w/ Bt spk & W.	
					± 100' N. of W. Edge of Hse # 22261 at	
					Top of Brk	
TP	0 760	164 670	9 472	163 910'	TP	
TP	0 546	155 574	9 642	155 028'	TP	
TP	1 260	147 542	9 292	146 282'	TP	
TP	0 230	138 666	9 106	138 436'	TP	
TP	0 324	129 566	9 424	129 242'	TP	
TP	0 701	120 827	9 440	120 126'	TP	
TP	0 188	111 771	9 244	111 583'	TP	
TP	0 205	102 256	9 720	102 051'	TP	
TP	4 378	99 022'	7 612	94 644'	TP	

F. B. 3285 PG. 170 Job No. 0206.91 Division No. Notes Red Plotted Profile
Survey of Carbon Mesa Slides Date 2-4-80 Date No.
Survey by E. Landa Notes E.L. Notes Chk'd. Checked X-Sec.
Indexed Date Date Date No.

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	2-4-80 Carbon Mesa Slides	
		99 022'				
TP	0 370	95 666	3 696	95 326'	TP P.K. in mac Dr w/ Hse #2261 N.W. cor. 5' S. & 5' E.	
(SET) B-4 A	(unable to Locate B-4 Due to FILL)					Pick-up on P.K. = 95.326' + 4 180 = 99.506' - 4.296 = 95.210'
				95 210		
TP	0 250	86 296	9 620	86 046'	TP	
TP	0 850	77 276	9 870	76 426'	TP	
	0 356	68 492	9 140	68 136'		
	0 224	59 274	9 442	59 050'		
	0 437	50 361	9 350	49 924'		
	0 371	41 502	9 230	41 131'		
TP	0 846	32 896	9 852	32 050'	TP (pk. H end wd. Bridge)	
	0 514	23 577	9 833	23 063'		
B.M. CM #1			9 167	14410'	B.M. C.M #1, El = 14.429 FB. 3285-160	

Profile Notes Red ____ Plotted ____ Job No. 0206.91 Division No. ____
No. ____ Date ____ Date ____ Survey of Carbon Mesa Slides
X-Sec. Notes Chk'd. ____ Checked ____ Survey by E. Lopez Notes E.C. Date 2-4-80
No. ____ Date ____ Date ____ Map No. ____ Indexed H. HOLMAN Date MAY 16 1980

F. B. 3285 Pg. 171

Notes Ck'd by	Survey of Carbon mesa slide
Map No.	JN 0206.91 Tape EDM Std °F
Office Work	Surveyed by E. Landa
Checked	Notes Moody/EEL Date 2-80
Date	Indexed H. HOLMAN MAY 16 1980

F. B. 3285 PG. 173

JN 0206.91

CARBON MESA LANDSLIDE

Horizontal movement study

Observations

Lines B, C, D & E

REF - See F.B. G-1525 1

Pty:
Landa
moody
Caro

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F. B. 3285 PG 174

B-LINE

FEB 8TH 1980

TO STA. B-2 } From STA. B-1
TO STA. B-6 }

on Line From	on Line To	Sight on station	PLUS	OFFSETS AMT.	OFFSETS L/R
B-1	B-6		0+00		
		B-2	4+51.85'	0.35	L.
		B-4A	6+80.14'	0.00	—
		B-6	9+23.34'	—	—

B-1 TO B-2
455.42 @ 7°-10'-40" = 451.85'

B-6 TO B-4A = (SET 1" I.P. CONC. PLUG W/ C.E. TAG ON LINE 2' W. of TOE of Bank)
249.61 @ 13-00-50 = 243.20'

B-1 TO B-6
924.56 @ 4-06-38 = 923.34'

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76F309S CE#310 3-69

451.50

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C-LINE

FEB. 26TH 1980

ONLINE FROM	ONLINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	⊼ @ E-4
B-1	E-4					
		C-2A	3+52.64'	0.00	—	E-4 TO C-2A (NOTE: C-2 GONE) 724.20 @ 4-39-00 = 721.82'
		C-3	6+22.96'	44.80'	L.	E-4 TO C-3 (SEE F.B.6 1525-5) 467.73 @ 14-03-30 = 453.72' NOTE: calc. rt. TRIA. FOR PLUS 453.72 @ 5-40-00 = 451.50'
		E-4	10+74.46'	—	—	E-4 TO B-1 1076.76 @ 3-44-45 = 1074.46'

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Carbon mesa
JN Tape Std °F
Surveyed by E. Landa
Notes E. Landa Date
Indexed H. HOLMAN MAY 16 1980

F. B. 3285 PG. 175

F. B. 3285 PG. 176

D-LINE

FEB 26 1980

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	Offset L/R
D-1B	E-4				
		D-3	4+22.84'	19.95'	L
		E-4	7+31.26'	—	—
On Line From	On Line To				
		"E" LINE			
E1	E-4				
		E-3	2+03.21'	0.63	L
		E-4	6+93.83'	—	—

E-4 To D-3

322.43 @ 16-33-19 = 309.06'

309.06 @ 3-42-04 = 306.42' (RT Δ FOR PLUS)

D-1B To E-4

731.54 @ 1-34-17 = 731.26'

E-4 To E-3

491.53 @ 3-29-45 = 490.62'

E-4 To E-1

701.10 @ 8-15-40 = 693.83'

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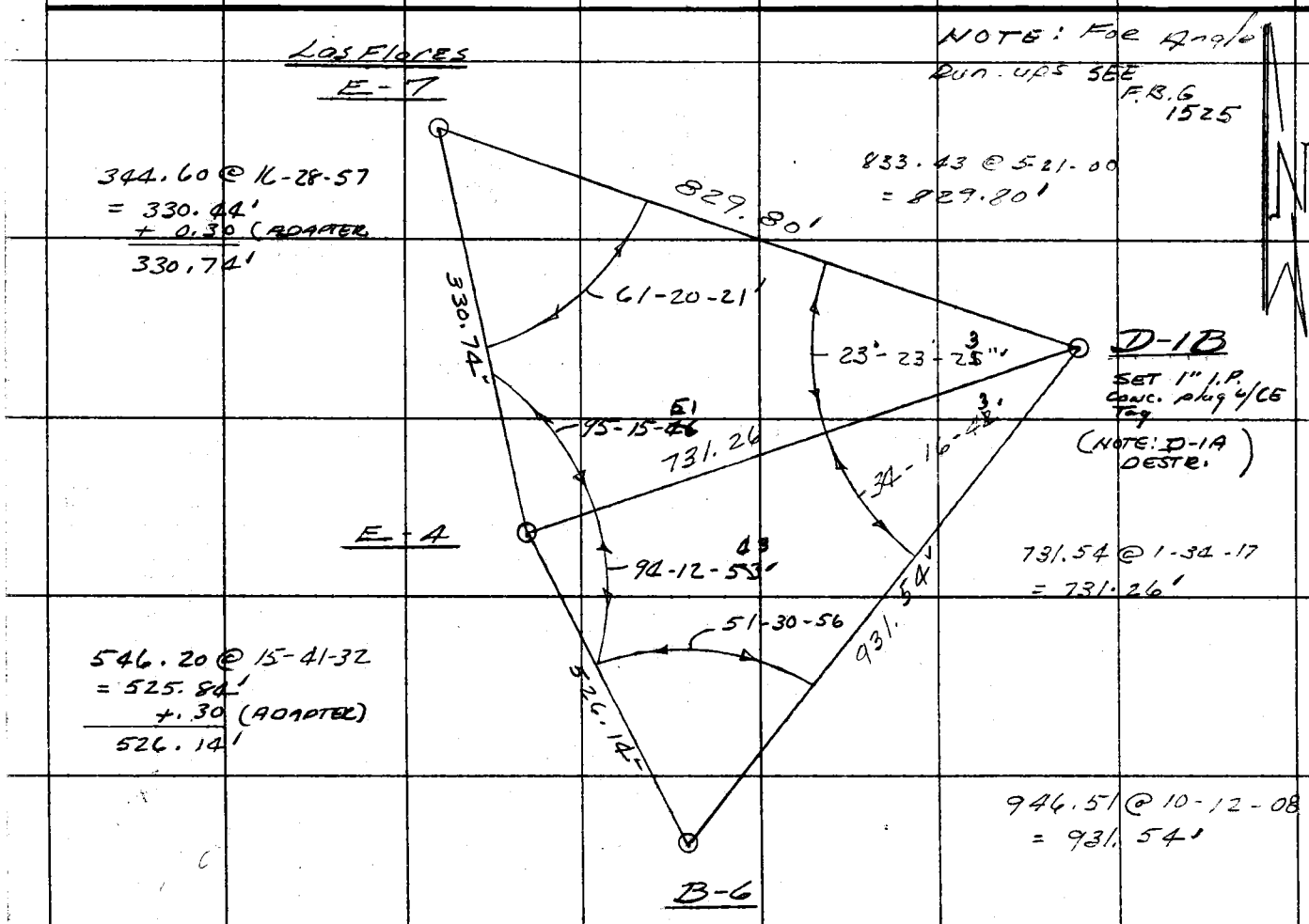

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Carbon Mesa Slide
JN 02069 Tape EMD Std °F
Surveyed by Landa
Notes Vert & El. Date 2-80
Indexed H. HOLMAN MAY 16 1980

F.B. 3285 PG. 177

Profile No.	Notes Red	Plotted	Job No. 0206.91	Division No.	F. B. 3285 PG. 179
	Date	Date	Survey of Carbon Mesa		
X-Sec. No.	Notes Chk'd.	Checked	Survey by Eland	Notes GL	Date 5-1-80
	Date	Date	Map No.	Indexed	Date MAY 16 1980

B. HOLMAN

J. N. 0206.91

CARBON MESA SLIDE

LINES B, C, D & E

STATION	B. S.	H. I.	F. S.	ELEV.

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76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.m.CM#3	2 659	404 134		401.475	B.m C.m.#3, El = 401.475 FB	
E-1	3 666	403 993	3 807	400 327	E-1	
TP	0 178	393 973	10 198	393 795		
TP	0 267	382 258	11 982	381 991		
TP	0 440	371 019	11 679	370 579		
TP	1 768	362 250	10 537	360 482	TP	
CM#2	0 748	357 886	5 112	357 138	B.m C.M#2	
TP	0 537	346 690	11 733	346 153	TP	
TP	0 285	335 696	11 279	335 411		
TP	0 867	324 718	11 845	323 851		
	5 887	322 196	8 409	316 309		
D-1B	2 665	321 956	2 905	319 291	D-1B, Elev = 319.299, FB 3285-168	
TP	1 122	320 196	2 882	319 074		
TP	0 867	309 184	11 879	308 317		
142 TP			11 449	297 735	TP	

F. B. 3285 PG. 180 | Job No. 0206.91 | Division No. | Notes Red | Plotted | Profile
Survey of Carbon Mesa | Date | Date | No.
Survey by EL | Notes EL | Notes Chk'd. | Checked | X-Sec.
Indexed | Date 5-1-80 | Date | Date | No.

76-L-298 CE 307 8-70

11.

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STATION	B. S.	H. I.	F. S.	ELEV.		
CONT/ TP	0 523	298 258		297 735	' TP	
	0 317	287 597	10 978	287 280	' "	
	0 257	275 925	11 929	275 668	' "	
	0 287	264 909	11 303	264 622	' "	
	0 322	253 506	11 725	253 184	' "	
	1 346	243 417	11 435	242 071	' "	
	11 092	254 197	0 312	243 105	' "	
	11 465	265 312	0 350	253 847	'	
	10 909	275 978	0 243	265 069	'	
	5 676	270 725	10 929	265 049	'	
E-3			2 257	268 468	' E-3	
	0 678	260 248	11 155	259 570	' TP	
	0 577	249 844	10 981	249 267	' "	
	0 312	238 805	11 351	238 493	' "	
	0 429	228 626	10 608	228 197	'	
	0 413	217 686	11 353	217 273	'	
D-3	9 869	215 678	11 877	205.809	' D-3	
TP	0 318	205 305	10 691	204 987	' T	
TP			10 868	194 437	' TP	
	CONT					

Profile Notes Red ____ Plotted ____ Job No. 0206.91 Division No. ____ F. B. 5285 PG. 181
No. ____ Date ____ Date ____ Survey of Sycamore Mesa
X-Sec. Notes Chk'd ____ Checked ____ Survey by EL Notes EL Date 5-1-80
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date MAY 16 1980

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	
CONT					
	0 311	194 748		194 437	
C-3	0 752	185 823	9 677	185 071	C-3
TP	5 839	180 331	11 331	174 492	TP
B-2	0 335	173 009	7 657	172 674	B-2
TP	1 123	162 964	11 168	161 841	
TP	0 403	151 452	11 915	151 049	
"	1 009	141 520	10 941	140 511	
"	0 441	130 448	11 513	130 007	
"	0 713	120 001	11 160	119 288	
	0 433	109 202	11 232	108 769	
	1 857	100 838	10 221	98 981	
(SET) B-4B	0 713	97 243	4 308	96 530	B-4B 2" I.P. conc. plug w/ CE Tag
				86 110	± 2' abv. Toe of Slope
TP	0 567	86 6~~7~~97	11 113	86 130	NOTE: B-4A GONE
"	0 386	75 ~~391~~ 411	11 672	75 ~~005~~ 025	
"	0 241	63 8~~61~~ 81	11 771	63 6~~20~~ 40	
"			11 613	52 2~~48~~ 68	
cont					

F. B. 3285 Pg. 182 Job No. 0206.91 Division No. Notes Red Plotted Profile
Survey of Carbon Mesa Date Date No. X-Sec.
Survey by EL Notes EL Notes Chk'd. Checked
Indexed Date Date Date No.

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
Cont						
TP	0 522	52 7~~7~~9 0		52 2~~4~~6 8	TP	
"	0 278	41, 4~~4~~6 8	11 600	41, 1~~7~~9 0		
"	0 831	30 ~~382~~ 402	11 897	29 5~~5~~7 1		
	1 711	20 2~~3~~5 5	11 858	18 5~~2~~4 4		
B.M.C.M.#1			5 791	14 4~~4~~6 4	B.M. C.M.#1	El: 14.429
						FB 3285-160

Profile Notes Red ____ Plotted ____ Job No. 0206.91 Division No. ____ F. B. 3285 Pg. 183
No. ____ Date ____ Date ____ Survey of Carbon Mesa
X-Sec. Notes Chk'd. ____ Checked ____ Survey by EL Notes EL Date 5-1-80
No. ____ Date ____ Date ____ Map No. ____ Indexed H. HOLMAN Date MAY 16 1980

Notes Ck'd by	Survey of Carbon Mesa	F. B. 3285 PG. 185
Map No.	JN 0206.91 Tape Std °F	
Office Work	Surveyed by Eilanda	
Checked	Notes EL Date 5-1-80	
Date	Indexed HOLMAN MAY 6 1980	

J.N. 0206.91

CARBON MESA LANDSLIDE

HORZ. MOVEMENT OBSER.

MAY 1st 1980

REF: SEE F.B. 6-1526
Pgs 1-6

Pty: LANDA
MOODY
CAEO
McCoy

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16F309S CE#310 3-69

F. B. 3285 PG. 186

B - LINE

(MAY 1ST 1980)

FROM	TO	Sight ON STA	PLUS	OFFSETS	L/RT.
B-1	B-6		0+00		
		B-2	4+51.89'	0.37	Lf.
		NOTE:- B-4A GONE (AREA FILLED)			
	SET	B-4B	6+79.01'	0.00	-
		B-6	9+23.39'	—	-

B-6 TO B-2

471.93 @ 2-27-00 = 471.50'

B-6 TO B-4B SET 2" I.P. ±2' ABV. TOP of BRK.

250.59 @ 12-46-55 = 244.38

B-6 TO B-1

926.63 @ 4-47-30 = 923.39'

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C - LINE (MAY 1st 1980)

π @ E-4

On Line From	On Line To	Sight on STA.	plus	OFFSET amt.	OFFSET L/RT	
B-1	E-4					
		C-2A	3+52.61	0.02'	Lf.	E-4 TO C-2A 724.19 @ 4-37-55 = 721.82'
		C-3	6+24.78	49.04'	Lf.	E-4 TO C-3 466.61 @ 14-13-02 = 452.32' (452.32 @ 6-13-28 = 449.65' Rt. Δ for plus)
		E-4	10+74.43	-	-	E-4 TO B-1 1076.74 @ 3-45-00 = 1074.43'

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Carbon Mesa
JN 0206.9 Tape Std °F
Surveyed by EL
Notes EL Date 5-1-80
Indexed H. HOLMAN MAY 16 1980

F. B. 3285 PG. 187

F. B. 3285 PG. 188

(MAY 1ST 1980)

D - LINE

ON LINE From	ON LINE To	Sight ON STA.	plus	OFFSET amt.	OFFSET L/Rt.	
D-1B	E4	D-3	4+28.06	21.85'	Lf.	E-4 TO D-3 317.08 @ 17-12-40 = 302.88' 302.88 @ 4-08-14 = 302.09' (Rt. Δ For plus)
		E-4	7+31.15'	—	—	D-1B TO E-4 731.42 @ 1-33-13 = 731.15'

E - LINE

ON LINE From	ON LINE To	Sight ON STA.	plus	OFFSET amt.	OFFSET L/Rt.	
E-1	E-4	E-3	2+05.06'	0.67	Lf.	E-4 TO E-3 489.72 @ 3-38-33 = 488.73'
		E-4	6+93.79'	—	—	E-4 TO E-1 700.99 @ 8-13-18 = 693.79'

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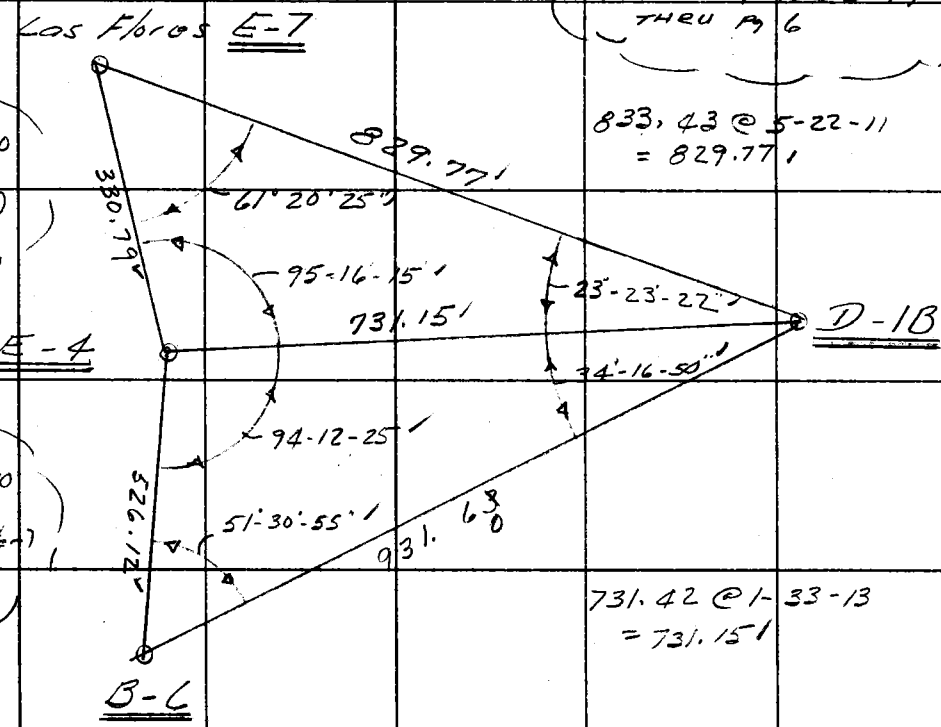
SEE FB-G-1526 Pg 1 THRU Pg 6



344.51 @ 16-24-10
= 330.49'
+ .30 (adapt.)
330.79'

546.07 @ 15-39-10
= 525.82'
+ .30 (adapter)
526.12'

833.43 @ 5-22-11
= 829.77'

731.42 @ 1-33-13
= 731.15'

946.54 @ 10-11-30
= 931.63

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Carbon Mesa
JN 0206.91 Tape Std °F
Surveyed by EL
Notes EL Date 5-1-80
Indexed H. HOLMAN MAY 16 1980

F. B. 3285 PG. 189