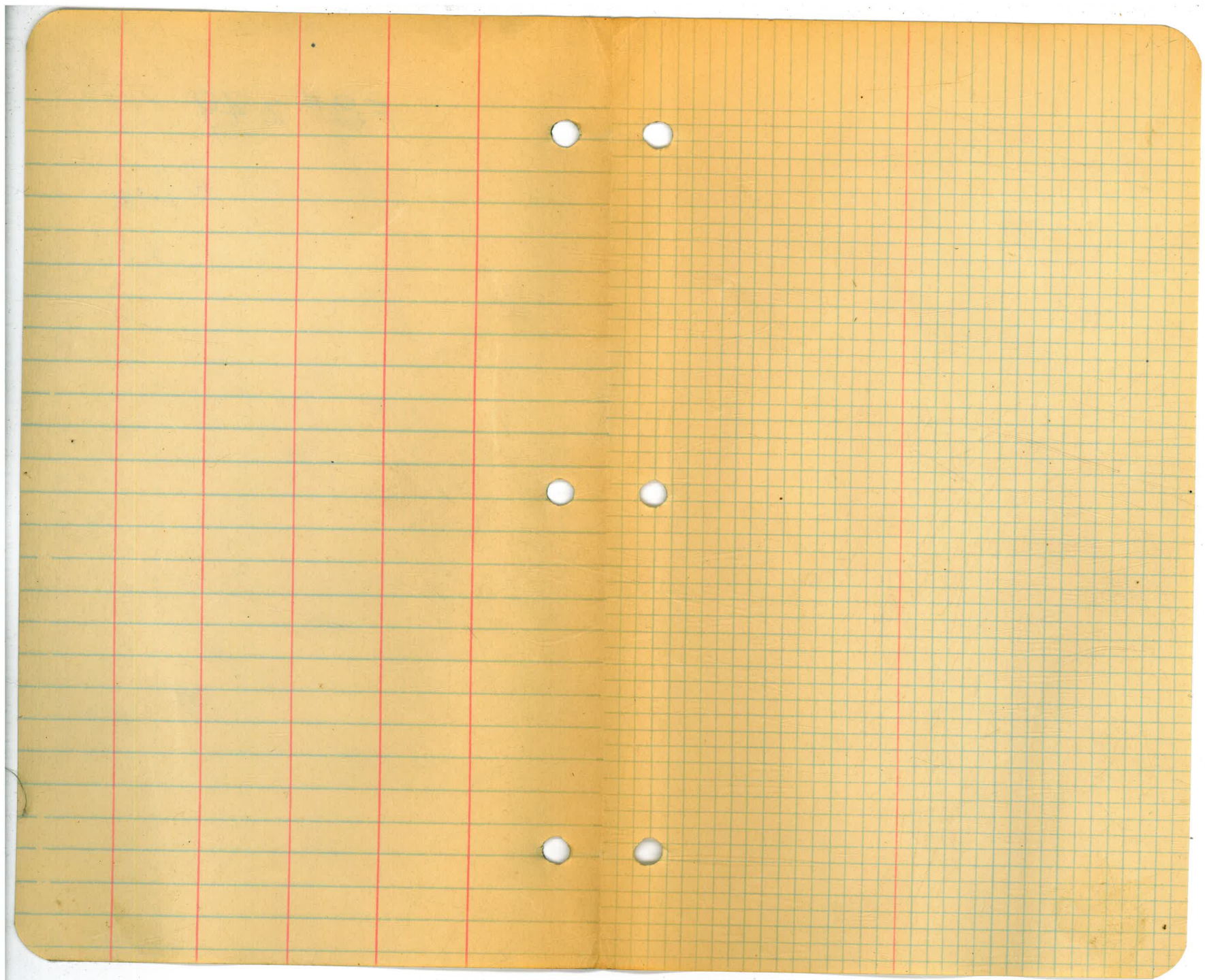


FB# 249



Index.

Lakeside Wells - Feb. 1928
Location & Elevations 1-26

El Capitan Pipe Line
Extension, County Road
Survey along ... (1927) 27-40

El Cajon Creek Stadia Meander
from proposed El Cajon Sewage
Disposal Plant to S.D. River 42-53
(Sept. 1928)

Sand Trap - 31st & Brdwy,
Field Notes on proposed ... 54-55

San Vicente Dam
Profile Levels on east
side axis 56-60

Solar on axis 61

Coordinates for traverse
south from west end of
axis (May 1926) ~~63~~ 63-64
(over)

Coordinates of transit
points on 750 contour traverse
northerly from west end
San Vicente Dam Axis. 65-85
May-1926.

Location of Recording
Wells and Elevations on
Same. Water Investigation.
Lakeside and Vicinity.

Feb. 1928.
Converse.

Note. See Map # 126-3.

6/18/28
located on map
1832-D³ Newcomb

Location of Reading
Walls and Elevations on
Some Water Investigations
Landscape and History
Feb 1928
Chicago
With See Map # 12-3

Elevation Top Casing Well #2.
Riverview Pumping Project.

Feb. 1928.
Gentlesc.



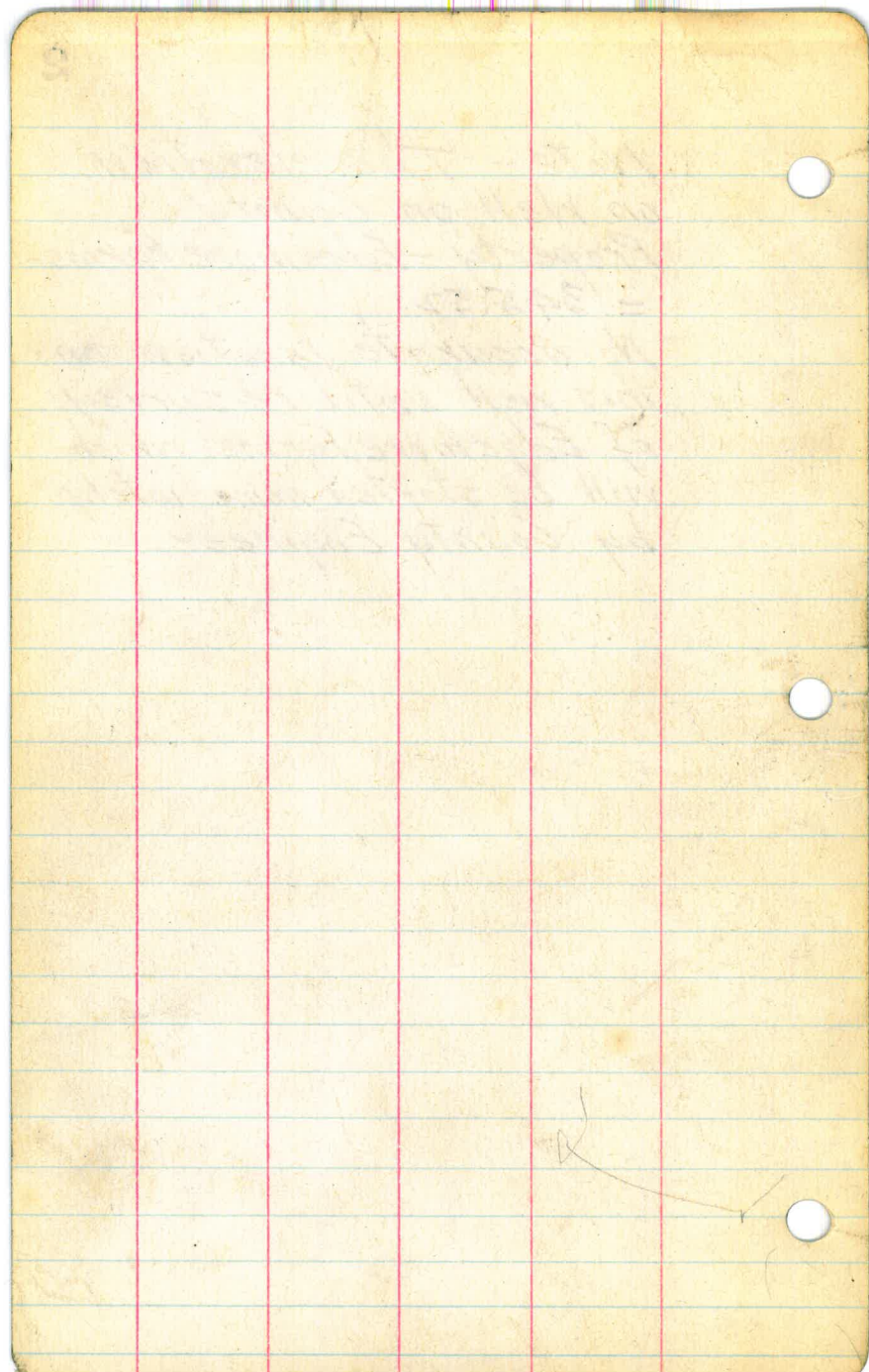
1 Elev. Top Well #2 to be used by
F.E. Green for Gauging
Purposes.

B.M.		378.81.
1.84	380.65	
Top Casting Well #2	7.06	373.59

Note - Locate this well on Map
for Gauging purposes.

Note - The elevation
on Well on County
Property - Edgemore Farms -
= 345.52.

No accurate location on
this well until re-survey
of Edgemore Farms, which
will be started immediately
by County Engineer.



Location of Gauging Well and
Recorder House.

Walker Property,
Lot 2 Block 5, Subdivision
of Lot "O" Rancho El Cajon.

Feb. 1928

Converse.

1972
11 56
816

Walker

B.M. #63			365.70
7.32	373.02		
		12.70	360.82
1.44	368.76		
		8.62	353.64
4.55	358.19		
		6.35	351.84
6.84	358.68		
		7.16	351.52
5.56	357.08		
Top 8" casing		3.60	353.48

Subdivision of Lot 0
Rancho El Cajon.
1320

West Line
Lot 2.

Lot 2.
Elev 353.48.
Top 8" casing

South Line
660.

Lot 3

1156

Lot 4

737.1

Walker Property.

660. 365.4
Lakeside Ave.

N. Line R.R. R. of W.



Ballantyne.

B.M. #61.			361.74
3.66	365.40		
		7.48	357.92
4.71	362.63		
Top 2" Pipe.		1.58	361.05

Location of Gauging Well.
Ballantyne Property.
Lot 1, Block 1, Subdivision
of Lot "D", Rancho El Cajon.

Feb. 1978.

Converse.

Ballantyne.

B.M.# 61.			361.74
3.66	365.40		
		7.48	357.92
4.71	362.63		
Top 2" Pipe.		1.58	361.05

Ballantyne.

← To Santee

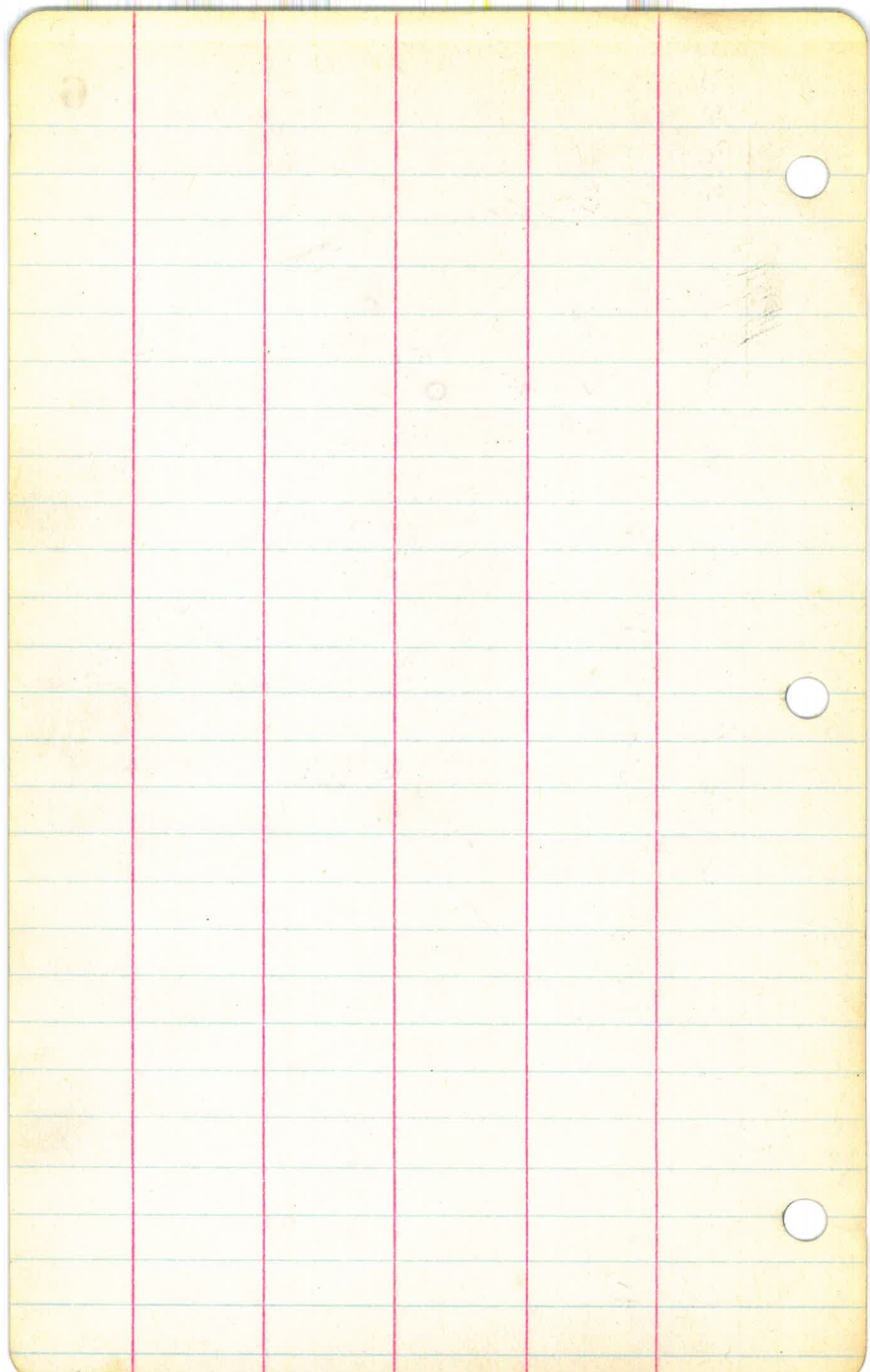


N.W. 1/4
 Subdivision of Lot 1,
 Rancho El Cajon,
 Ballantyne Property.

R.R. R. of W.
 R. of W.

Highway

60. 50

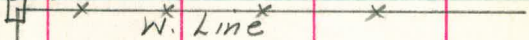


7
Location of Gaugeing.
Well and Recorder House.
S.W. Cor. Gilchrist Prop.
Feb. 1928.
Converse.

Gilchrist Property.
Location of Well and
Recorder House.

B.M. #56.			373.76
1.38	375.14		
		11.80	363.34
3.19	366.53		
		1.19	365.34
6.06	371.40		
Top N. Side 8" casing.		4.90	366.50

S.W. Cor.
Gilchrist Prop.



174°

x

Well and
Recorder House



x

S. Line

x

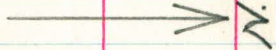
x

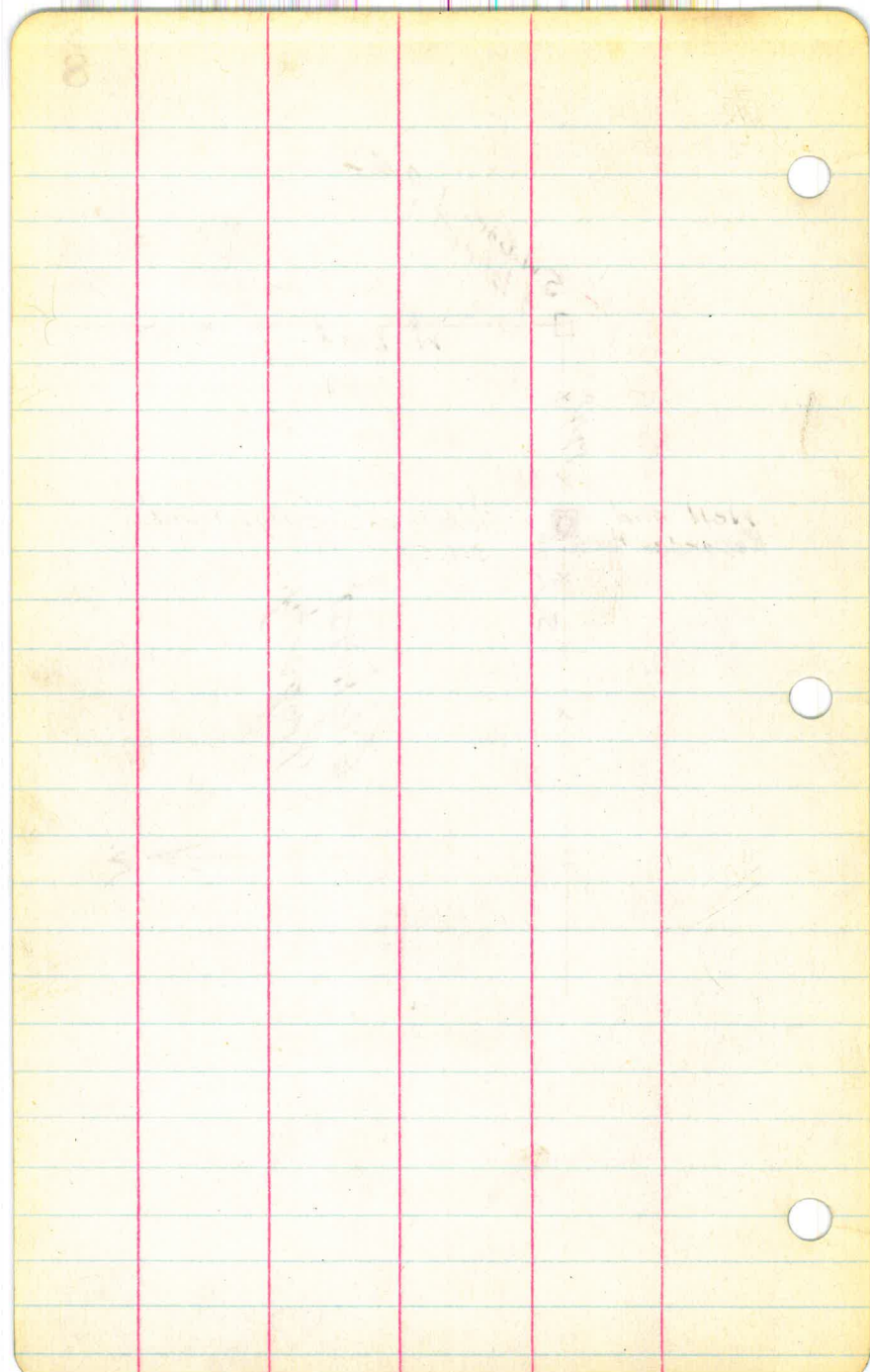
x

x

Elev. Top 8" Casing, N. Side.
366.50

Gilchrist
Property.





Location of Gauging Well.
Learn Property.
Lot 1 Block 6. Subdivision of
Lot "O" Rancho El Cajon.

Feb. 1928.
Converse.

Learn.

B.M. #56.

373.76

1.38 375.14

3.26 371.88

9.20 381.08

Top Curb. S.E. Corn

2.15 378.93

Learn.

→ To Lakeside



N. Line Lot 1.

* * *

30° N.W. Cor Lot 1.

Paved

154'

Lot 1, Block 6.
Subdivision of Lot 0
Rancho El Cajon

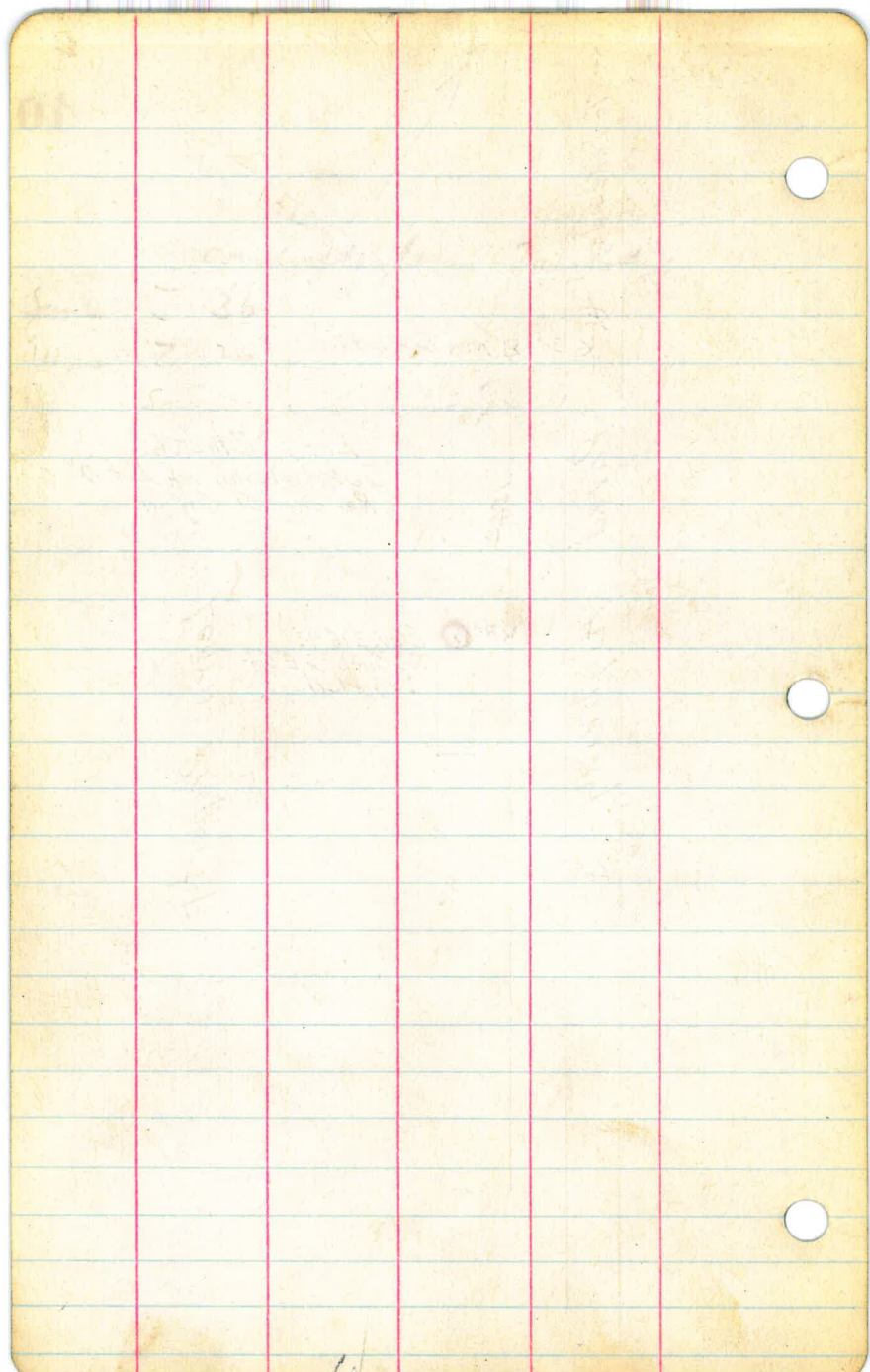
5

Highway



Elev. 378.93
Top Curb, S.E. Cor.
Dug Well.

Learn Property.



Location of Gauging Well
Burch Property.
Lot 2. Riverview Farms.

Feb. 1928.

Converse.

Burch.

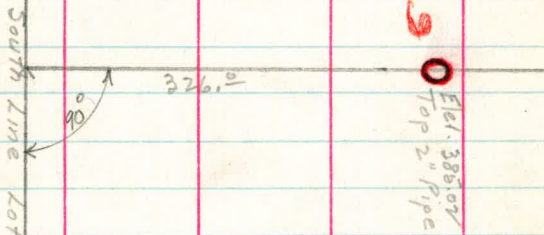
B.M. # 52.			382.84
4.32	387.16		
		3.88	383.28
5.34	388.62		
Top 2" Pipe.		3.60	385.02

Burch.

Highway

Parcement.

To Lakeside →

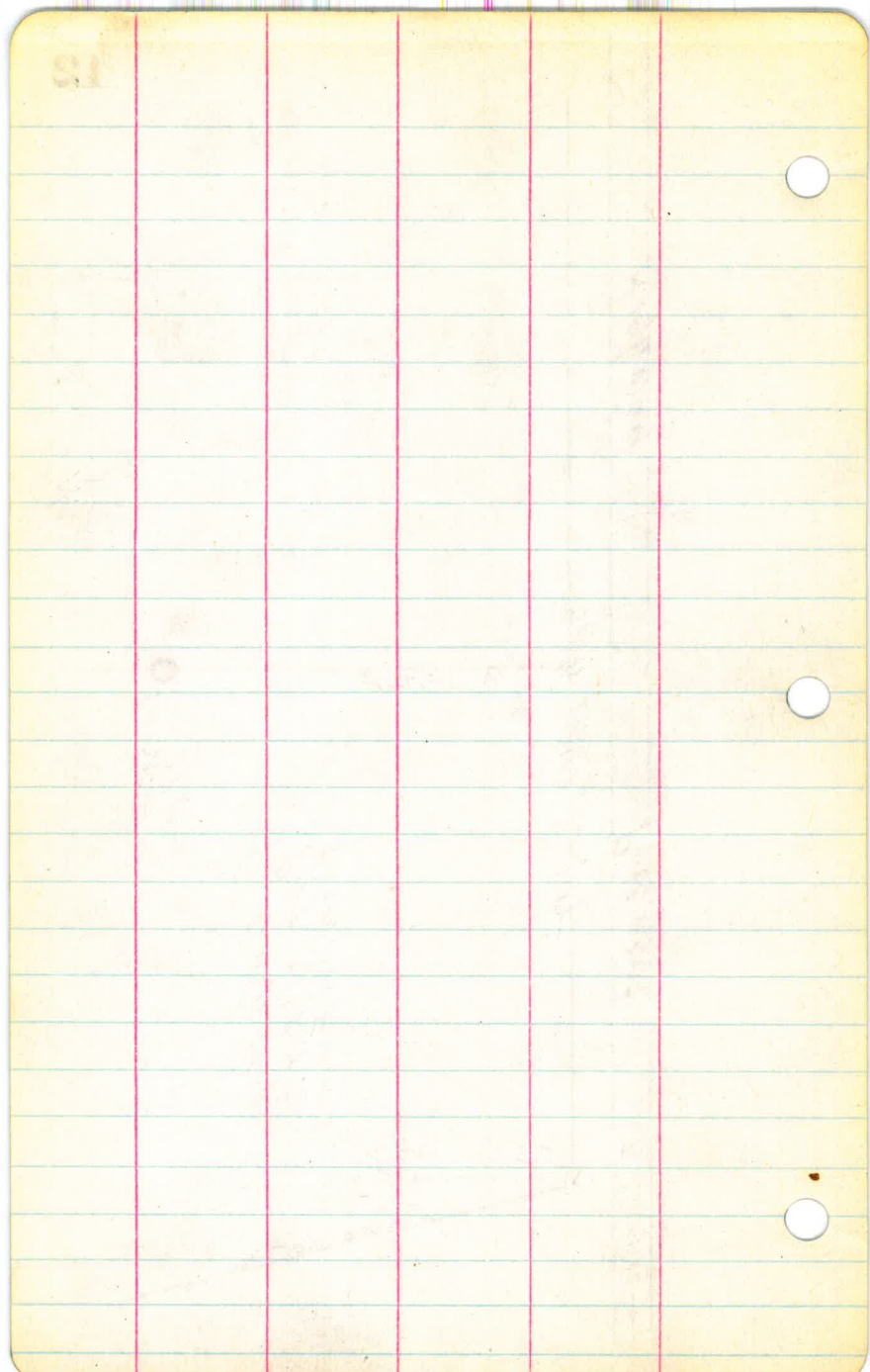


Part of Lot 2
Riverview Farms.

Burch Property.

S.E. Cor. Lot 2.
Riverview Farms.

E. line Lot 2.



Location of Gauging
Well, McClain Property,
Lot 57, El Cajon Valley Co's
Lands.

Feb. 1928.

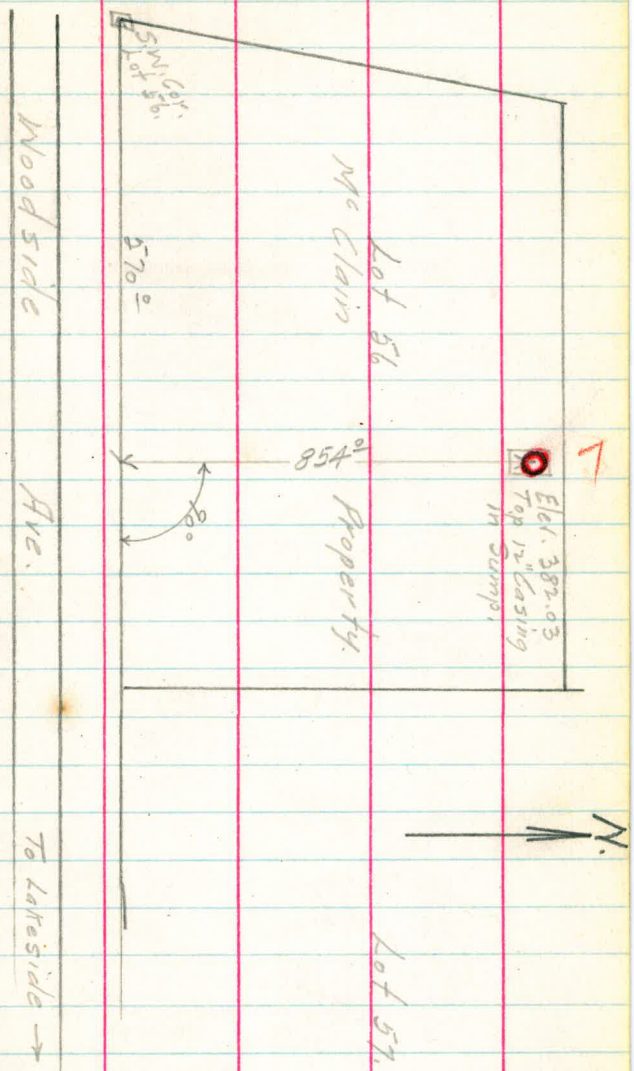
Converse.

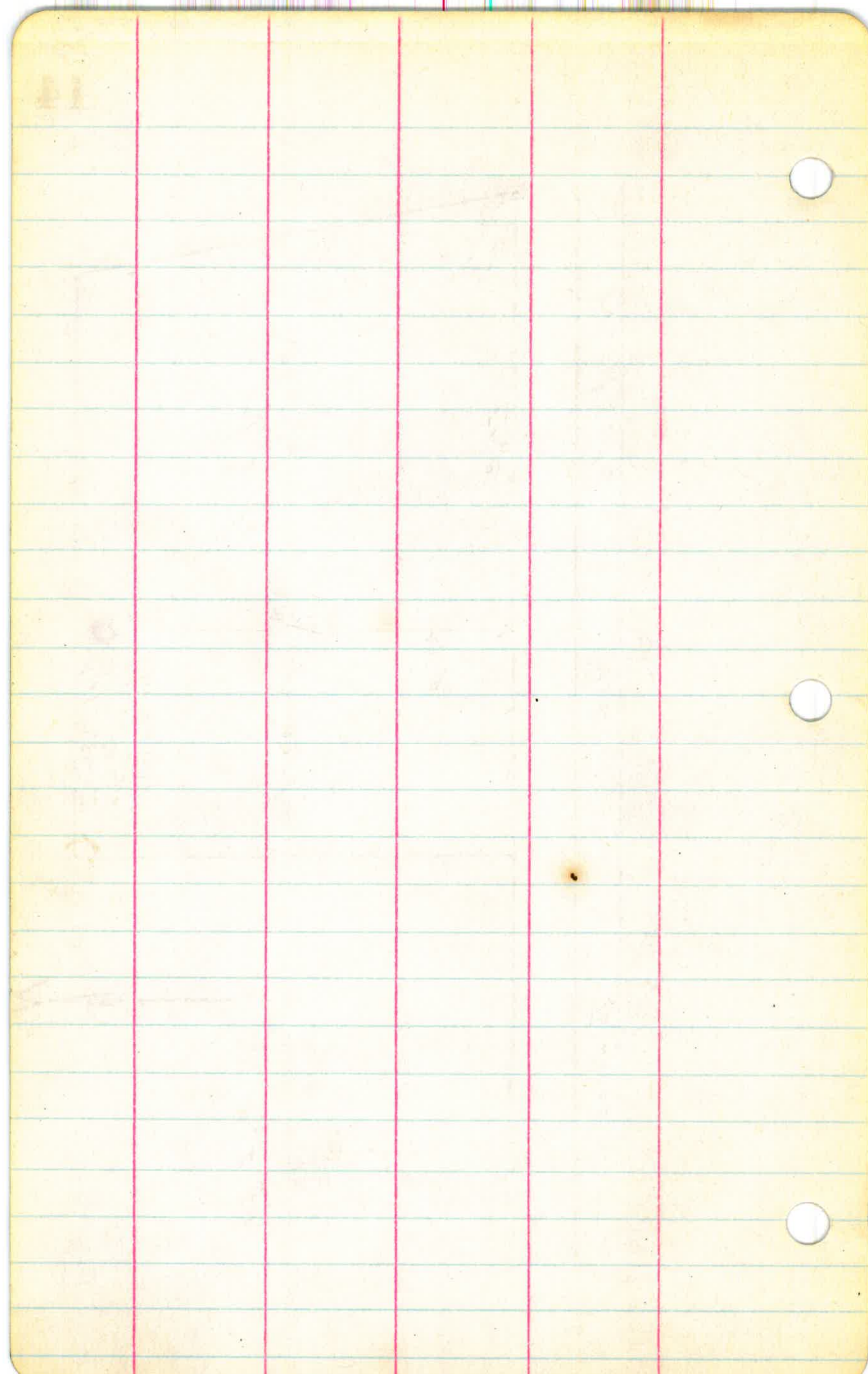
M^c Clain.

B.M. # 50.			393.39
2.79	396.18		
		5.73	390.45
4.44	394.89		
		4.63	390.76
1.12	391.38		
		1.95	389.43
1.67	391.10		
Top 12" casing		9.07	388.03

2

McClain



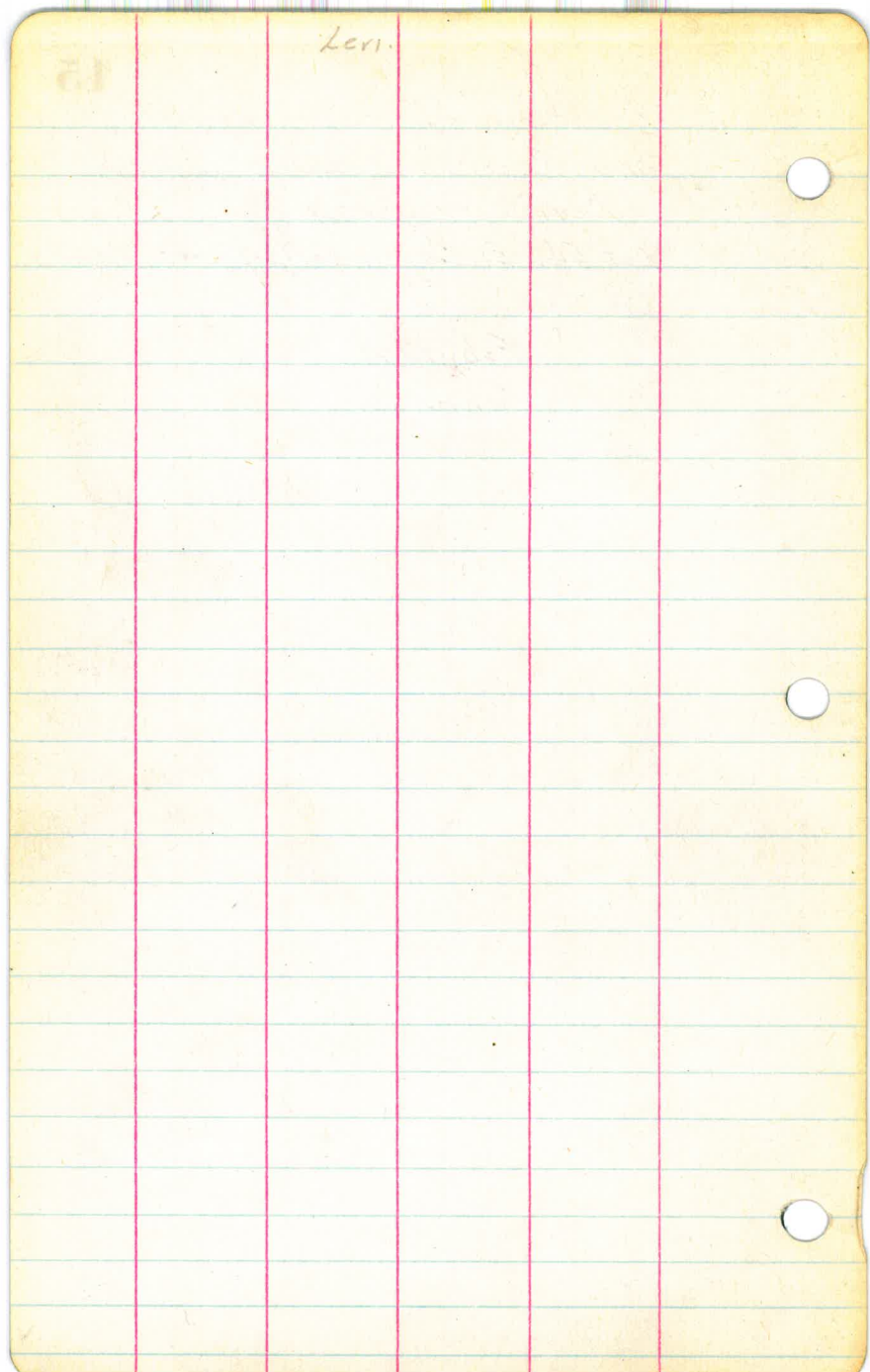


Location of Gauging Well
and Recorder House.

Levi Property.
Lot 54. El Cajon Valley Co's. Lands.

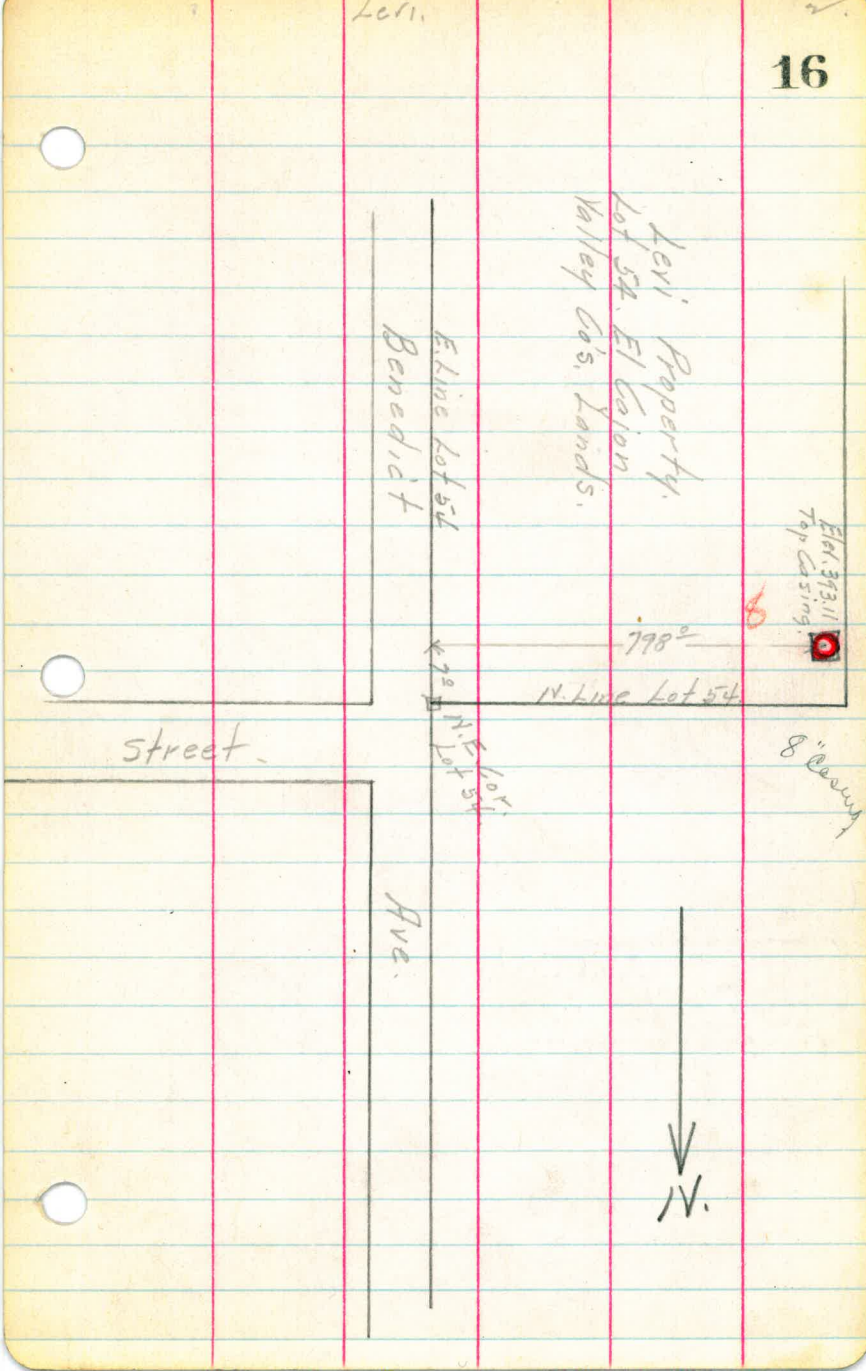
Feb. 1978.

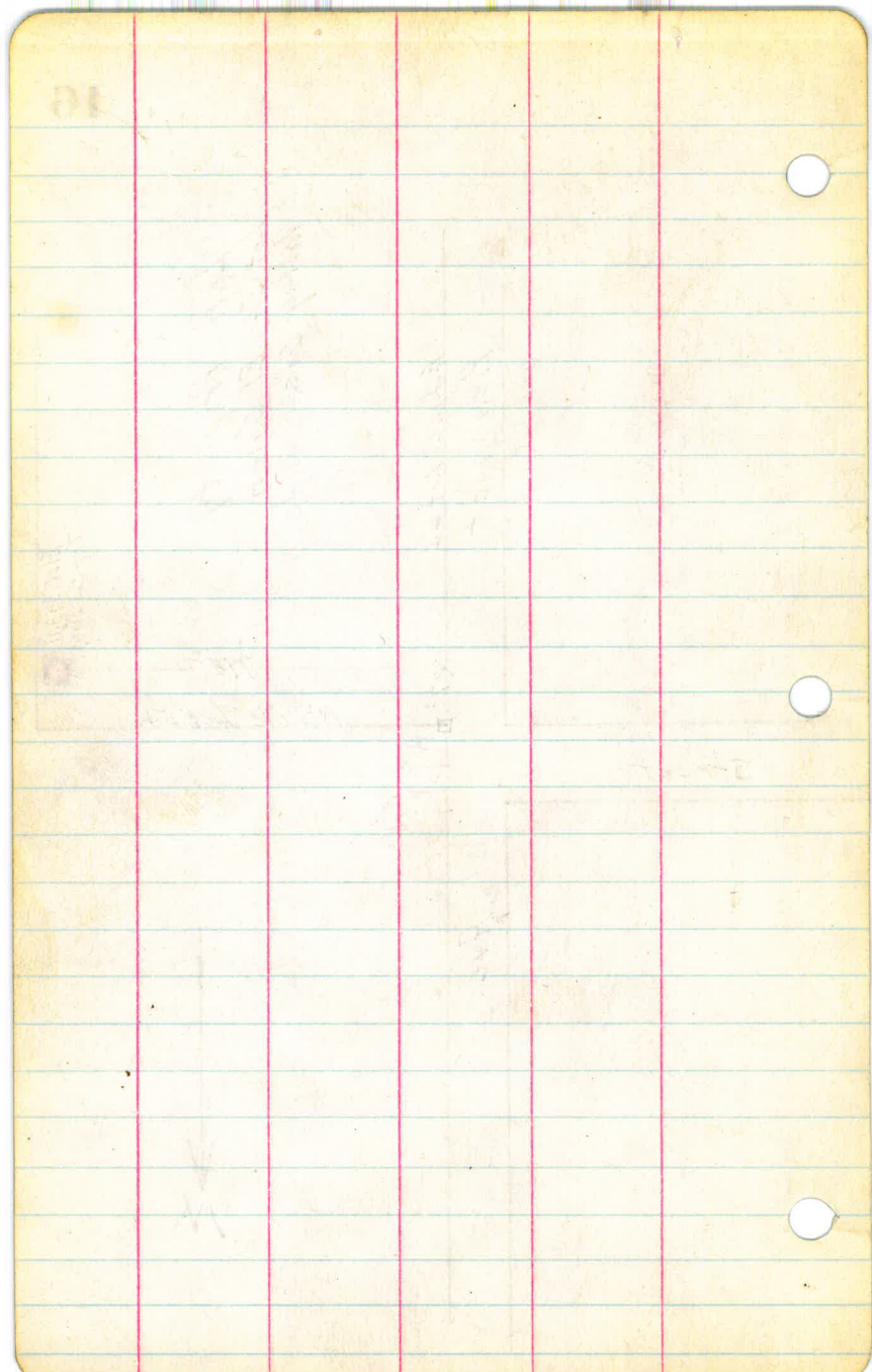
Converse.



Leri.

2011

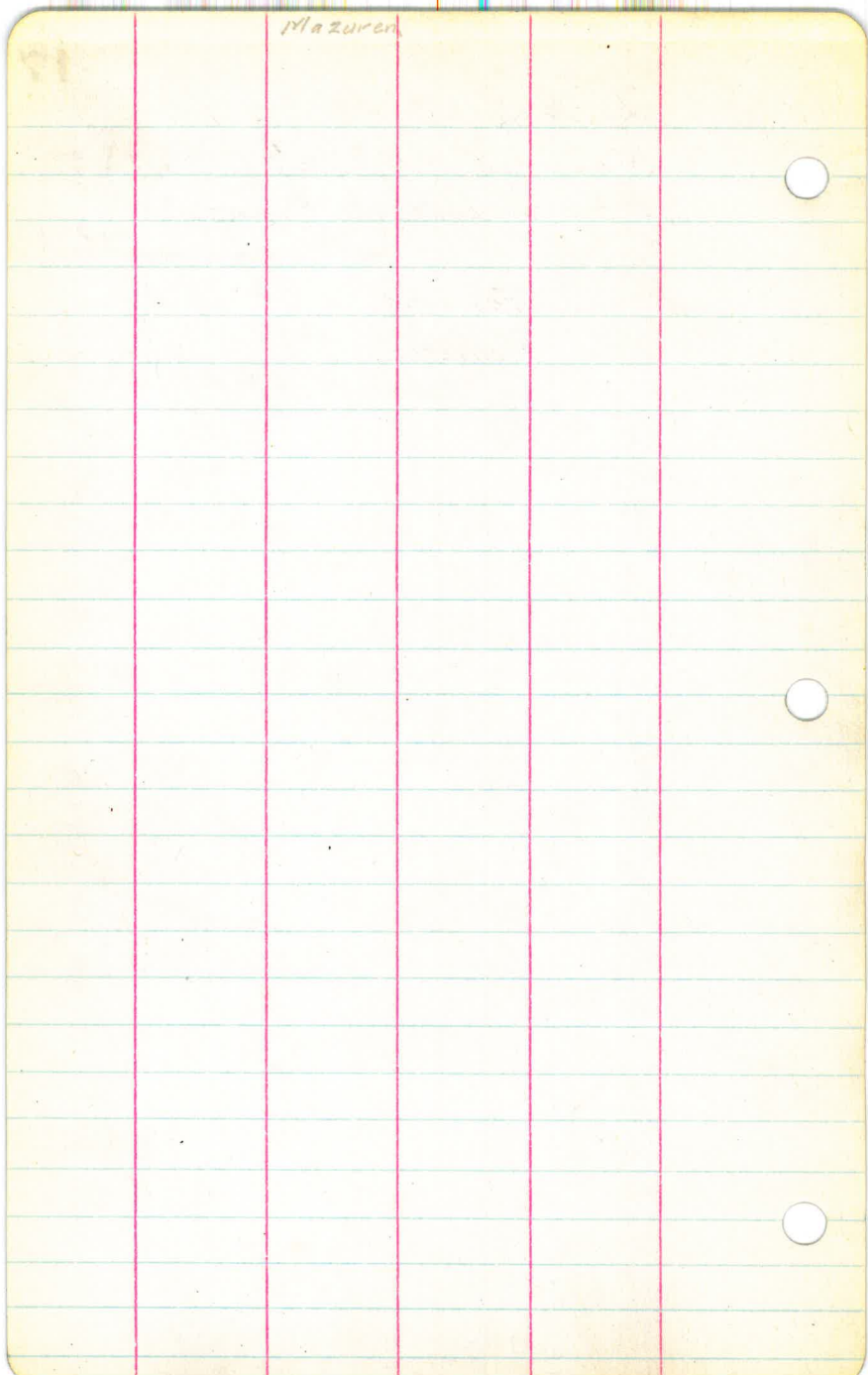




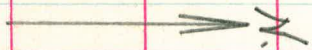
Location of Gauging Well,
Mazurka Property
Lot 102 Lakeside Farms.

Feb. 1928.

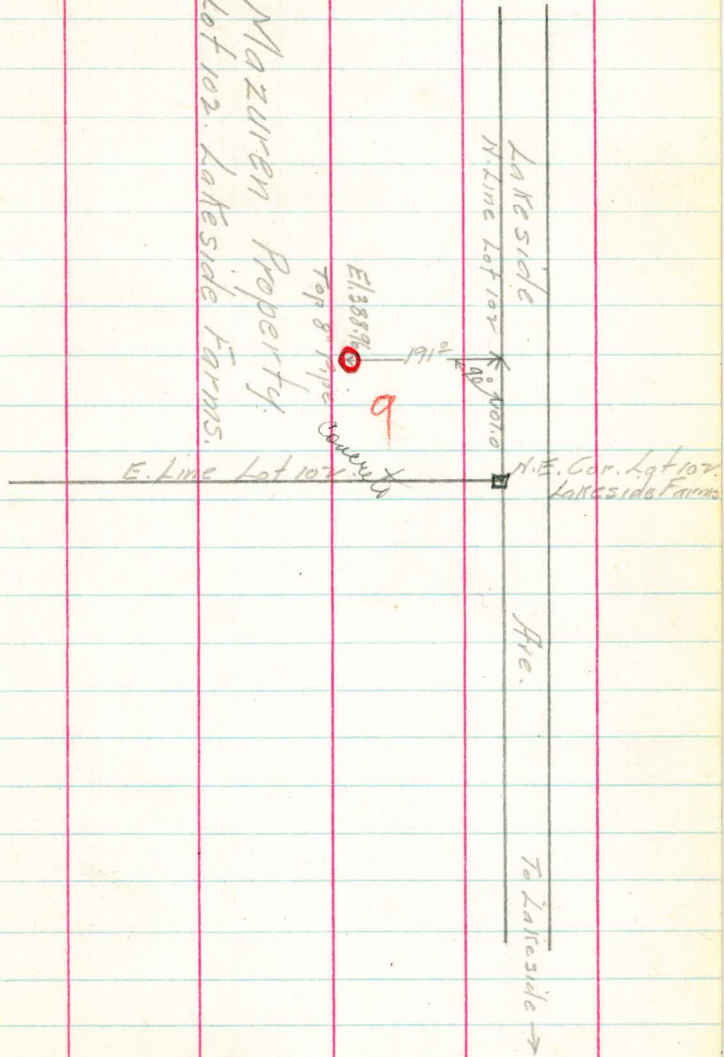
Converse.

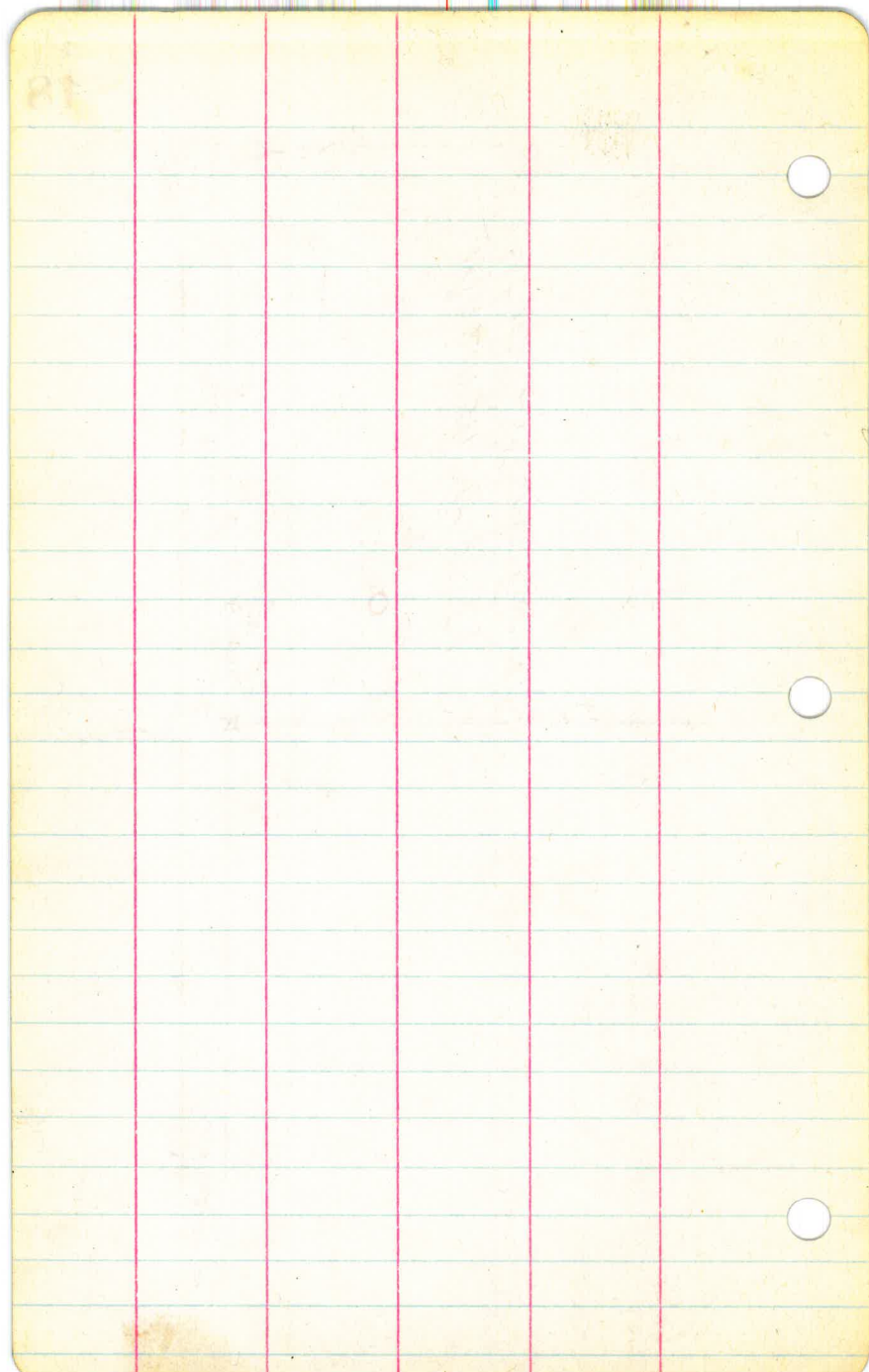


Mazuren



Mazuren Property
Lot 102 Lakeside Farms.





Location of Gauging Well.
Gay Property
Lot 52, El Cajon Valley Co's. Lands.

Feb. 1928.

Converse.

		6dy.	
B.M. #4. San Vicente			399.21
	3.58	402.79	
		4.60	398.19
	5.34	403.53	
Top 12" casing.		2.85	400.68

Gay Property.

10

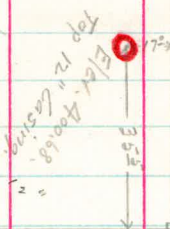
Lot 52.

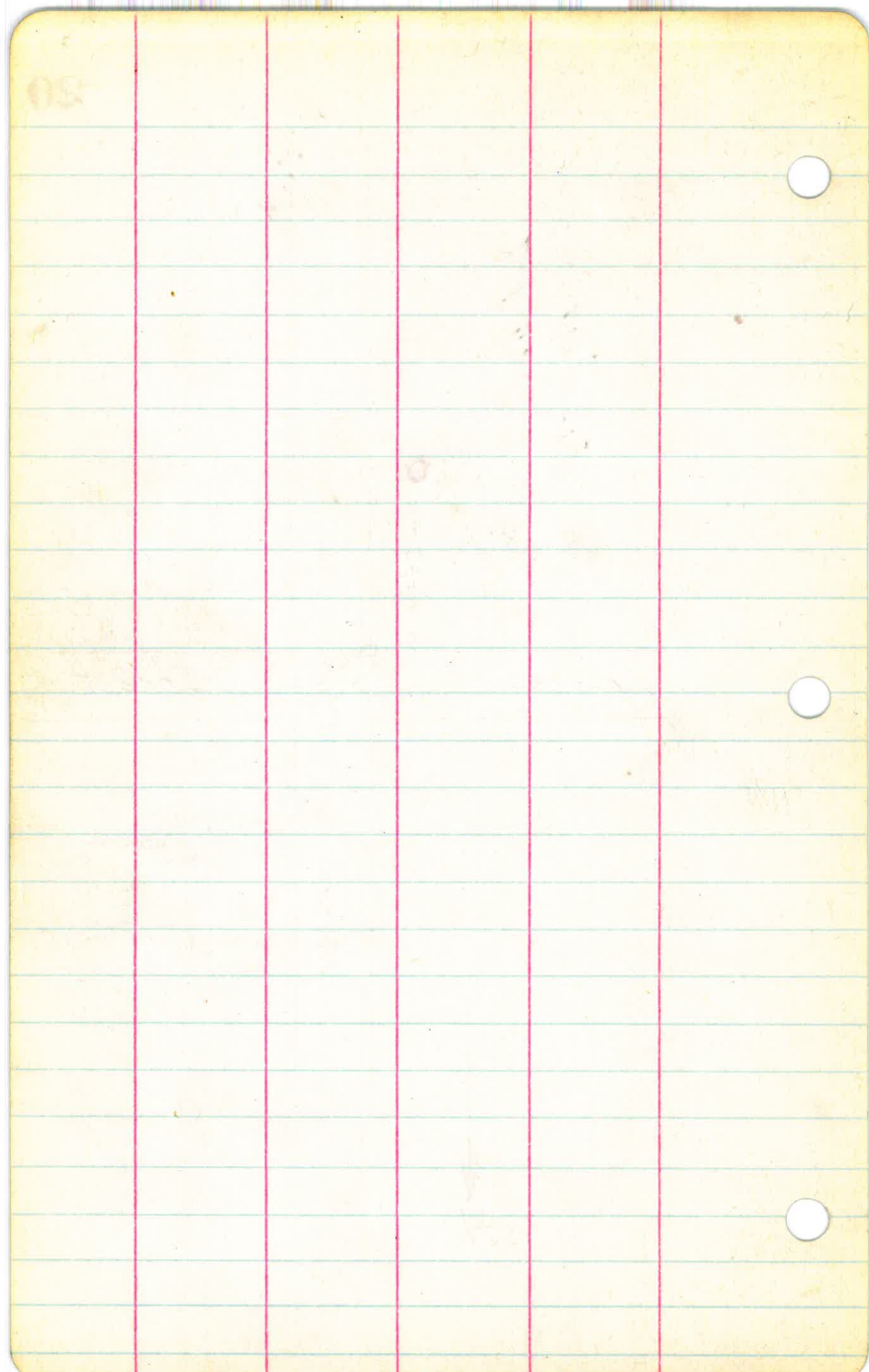
Laurel

Vinc

Street.

Street.





Location of Gauging Well
Philbrook Property.
Lot 78. El Cajon Valley Co.'s Lands.
Also Location of Gauging Well
at N.W. Cor. Lot 77. [Called Rickerts
Well by F.E. Green.]

Feb. 1928
Converse.

Philbrook
and (Rickerts)

B.M. San Vicente 412.92

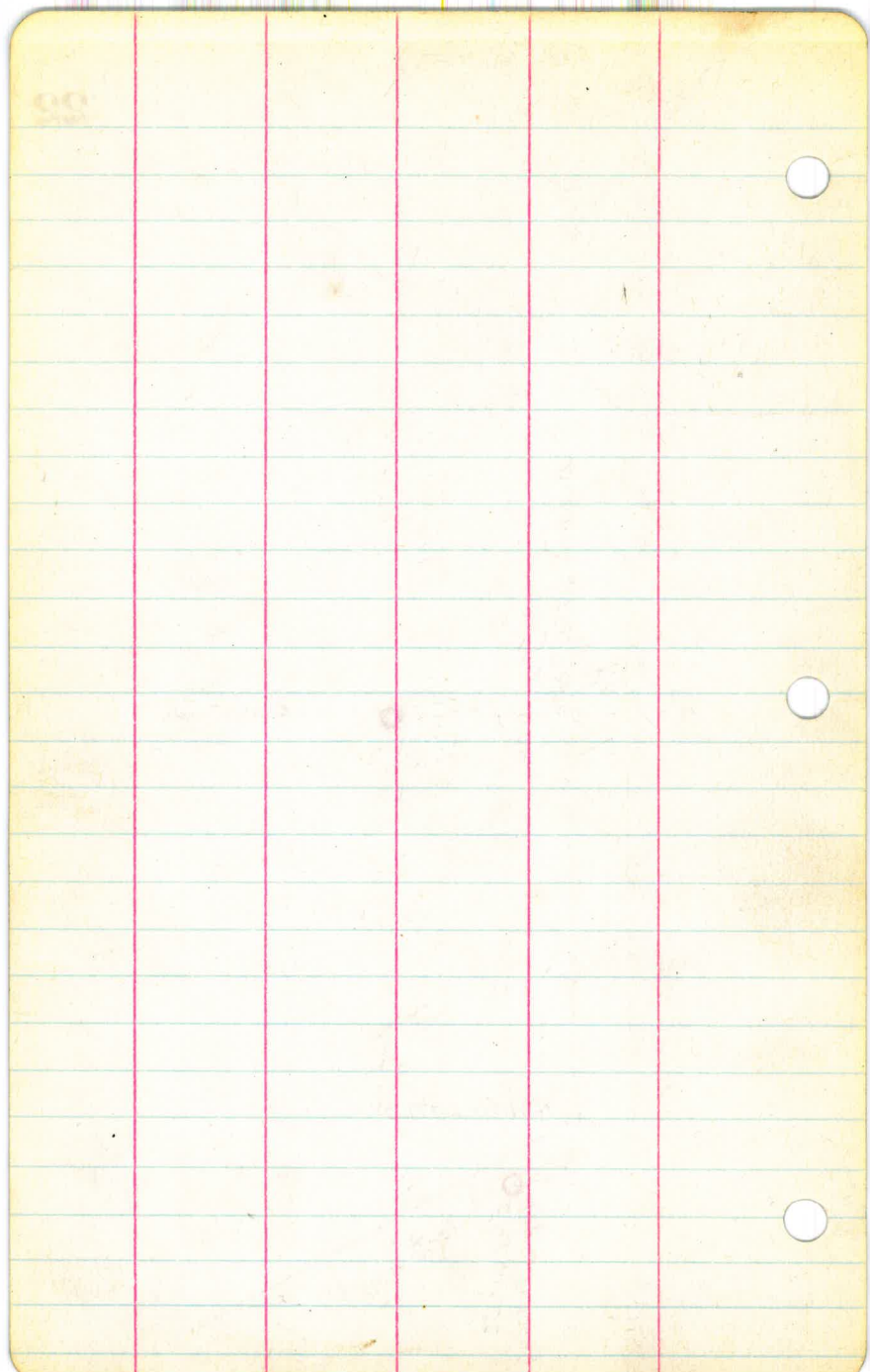
3.93 416.85

Top Taq. Philbrook Hall. 3.20 413.65

B.M. #10. San Vicente 413.44

2.96 416.40

Top 2" Reducer. (Rickerts) 8.85 407.55



Location of Gauging Wells
Ircys and Aul Property.
Timber Reserve. El Cajon
Valley Co's Lands.

Feb. 1928.

Converse.

E. Line. El Cajon Valley Co's Lands.

300'

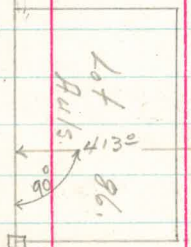
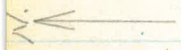
41

El. 426.11.
Top 2" Reduc.
Pipe

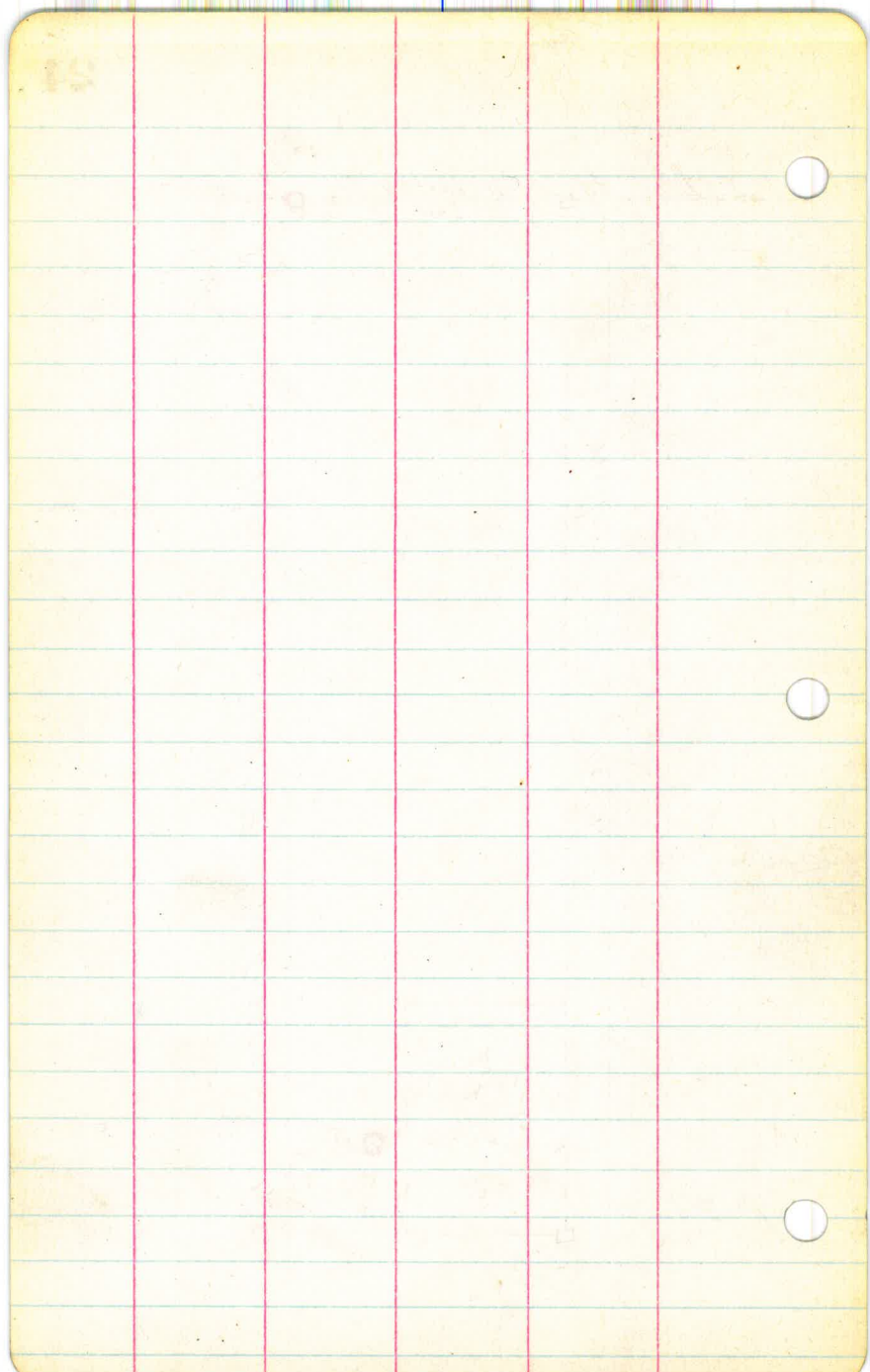
Willow

Road

Not Subdivided - Timber Reserve



El. 471.50
Top 2" Pipe
41



Location of Gauging Well.
Uimmerman Property.
Lot 181. El Cajon Valley Co's.
Lands.

Feb. 1928.
Converse.

Wimmerman.

B.M. #16. San Vicente.

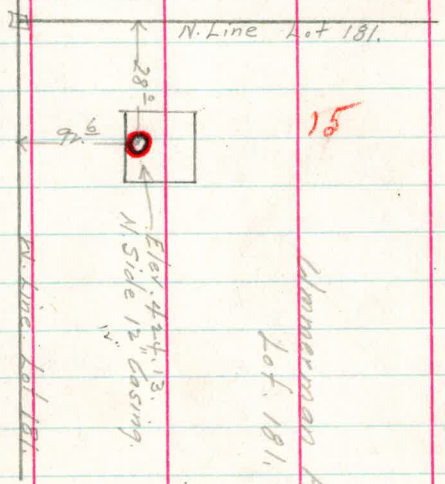
428.315

4.015 432.33

Top 12" casing.

8.20 424.13

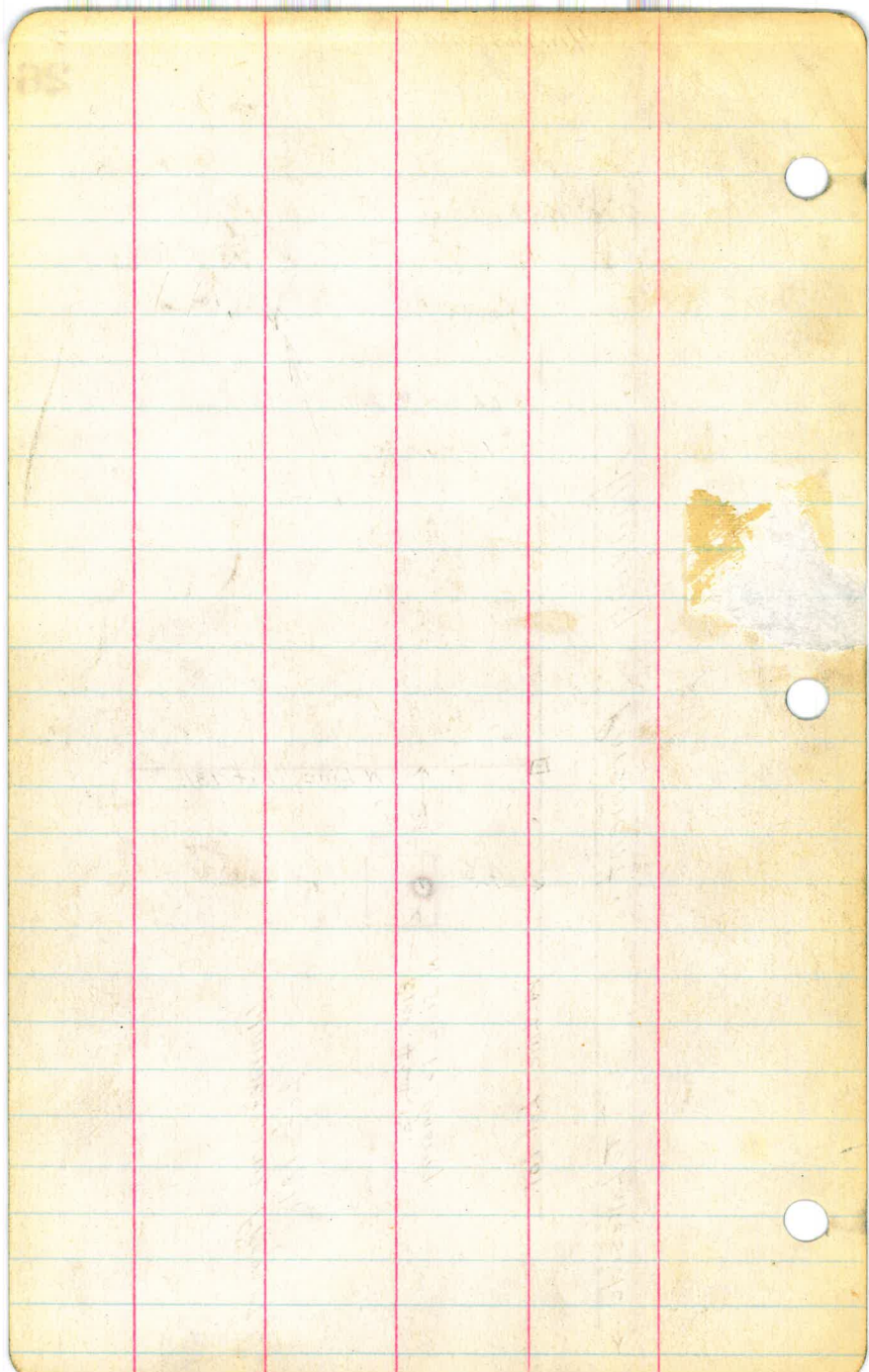
Highway Pavement
To Lakeside →



15

Ummerman Property
Lot 181.

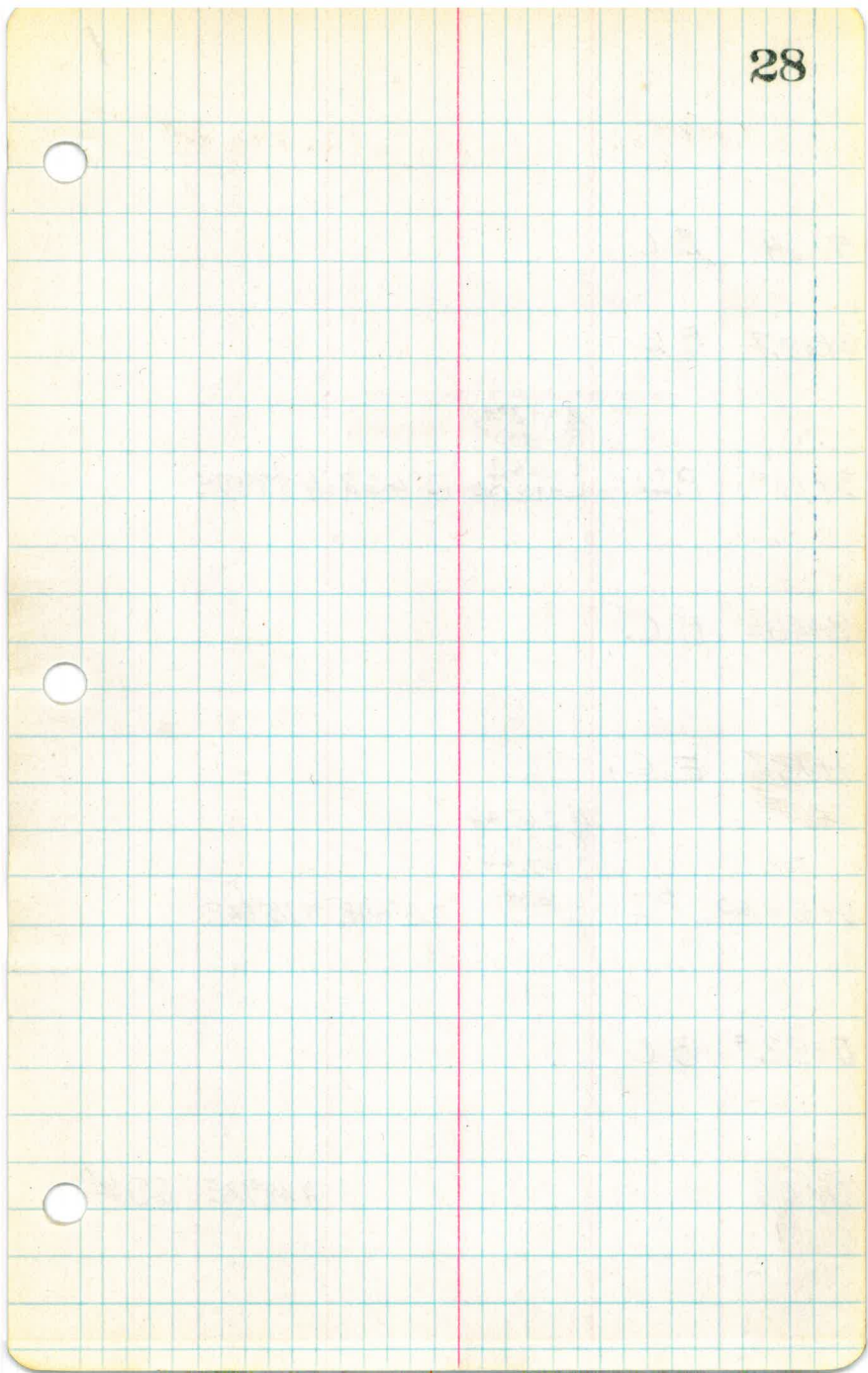




County Road Survey
El Capitan Extension

22

County Road Survey
El Cajon District



5+64° BC

3+69.7 EC

3+10° P.I.

A=13°46'
R=500'
T=60±
L=120±

13°46R N88°50E

2+49± B.C.

1+15⁸ E.C.

A 26°46'
R 200.0
T 47.60

0+69.60 PI

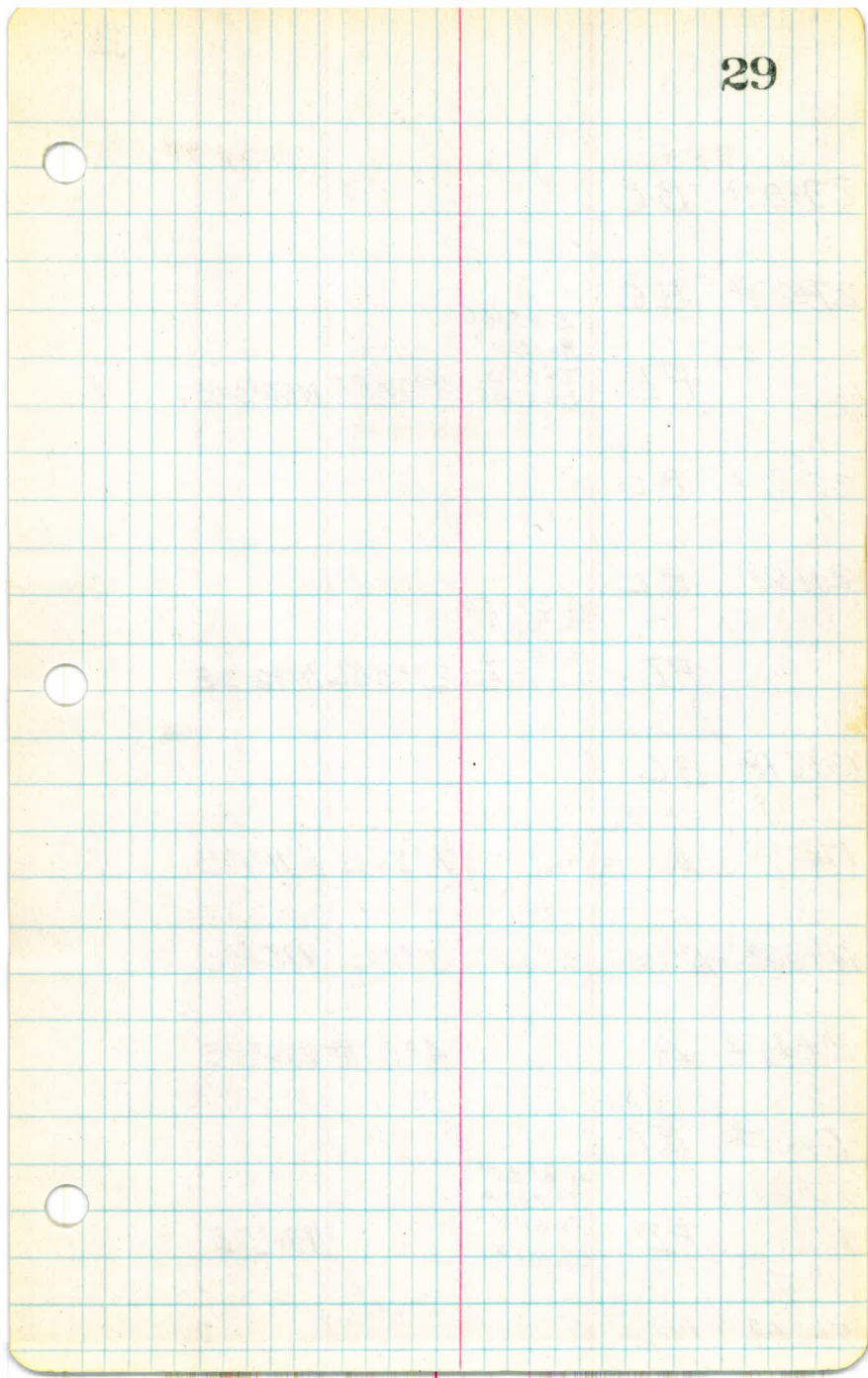
L 93±
E

26°40R N75°04E

0+22.4 BC

0+00

N48°18E 69.60



29+93^o BC27+22^z EC

PI

 $\Delta 8^{\circ}00'$
 $R=1000^{\circ}$
 $T=699$
 $L=1302$
8⁰⁰ RT N50^o30E25+83^L BC21+62^o EC

PI

 $\Delta 27^{\circ}50'$
 $T=991$
 $R=4002$
 $L=1943$
27^o56^L N42^o30E19+61^o B.C17+55^o A7^o30^L N71^o10E14+00^o A5^o50^L5^o50^L N78^o40E9+45^z A4^o00^{RT} N84^o30E6+65^z EC

P.F. PI

 $\Delta 8^{\circ}20'$
 $R=700^{\circ}$
 $T=51^{\circ}$
 $L=1012$
N80^o30E5+64^o BC

40+29° E.C.

P.I. $\Delta=17^{\circ}20'$
 $R=400'$
 $T=61'$
 $L=121'$ 17°20' L N49°20'E

39+08° B.C.

36+83° E.C.

1 P.I. $\Delta=13^{\circ}30'$
 $R=500'$
 $T=59'$
 $L=117'$ 13°30' P N66°40'E

35+65° B.C.

33+94° E.C.

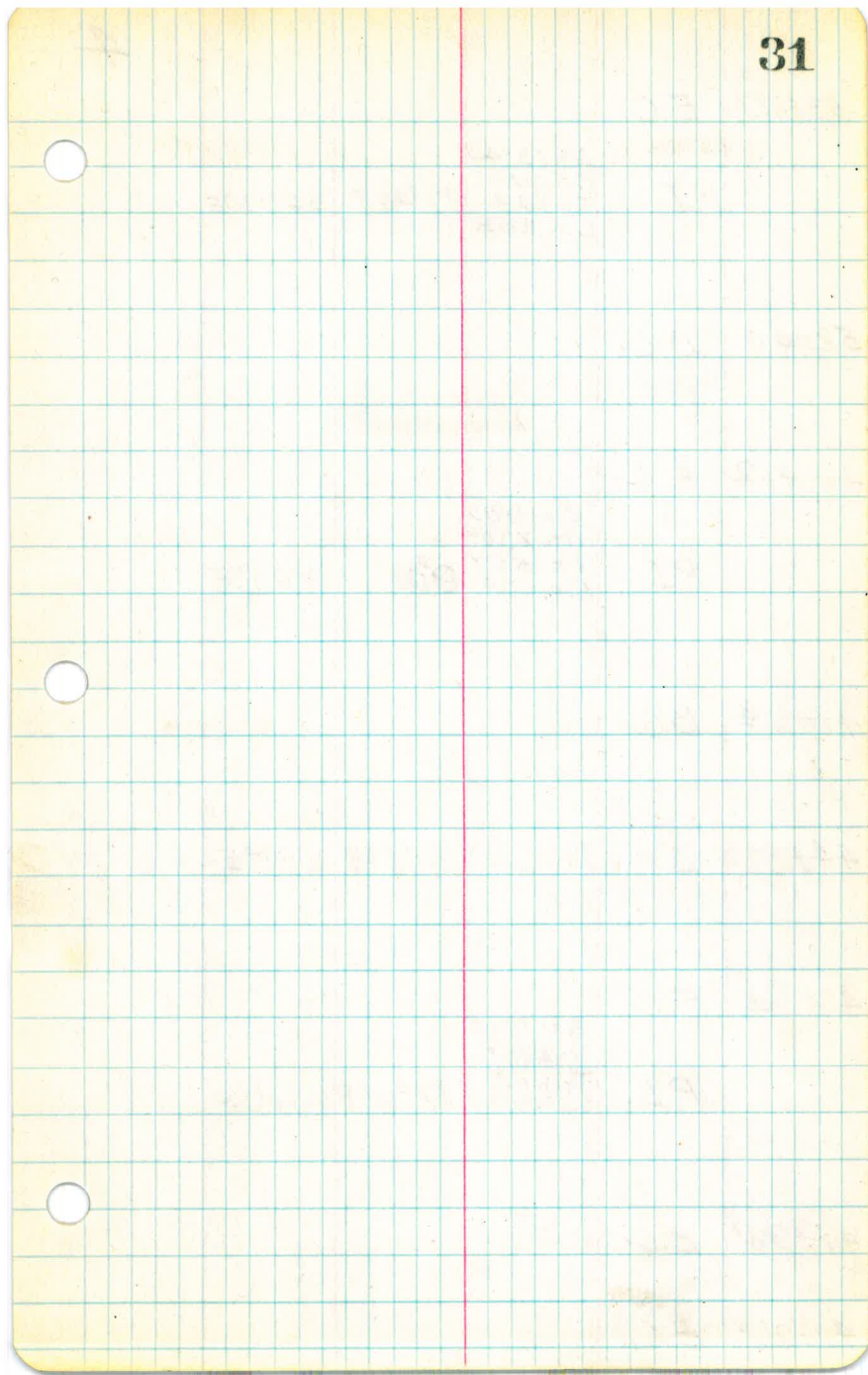
P.I. $\Delta=35^{\circ}00'$
 $R=300'$
 $T=94'$
 $L=183'$ 35°00' P N53°10'E

32+11° B.C.

31+05° E.C.

PI $\Delta=32^{\circ}20'$
 $R=200'$
 $T=58'$
 $L=112'$ 32°20' L N18°10'E

29+93° B.C.



4

53+68.7 EC

PI

 $\Delta = 73^{\circ}40'$
 $R = 100^{\circ}$
 $T = 74^{\circ}$
 $L = 128^{\circ}$

73°40' R 543°20'E

52+40 B.C.

48+41² EC

PI

 $\Delta = 98^{\circ}$
 $R = 700^{\circ}$
 $T = 55'$
 $L = 110^{\circ}$

900 N63°E

47+31² BC44+92² A

5°30' R N72°E

43+16⁴ E.C

P.I.

 $\Delta = 17^{\circ}10'$
 $R = 400^{\circ}$
 $T = 60^{\circ}$
 $L = 119^{\circ}$

17°10' R N66°30'E

41+96⁶ B.C.40+29⁰ E.C.

5

78+95^B BC

77+117 EC

$\Delta = 17^{\circ}50'$
 $R = 400$
 $T = 62.8$
 $L = 124.5$

17°50' L N11°30'E

75+87² B.C.73+38⁵ EC

$\Delta = 46^{\circ}54'$
 $R = 100$
 $T = 43.4$
 $L = 81.9$

46°54' L N29°20'E

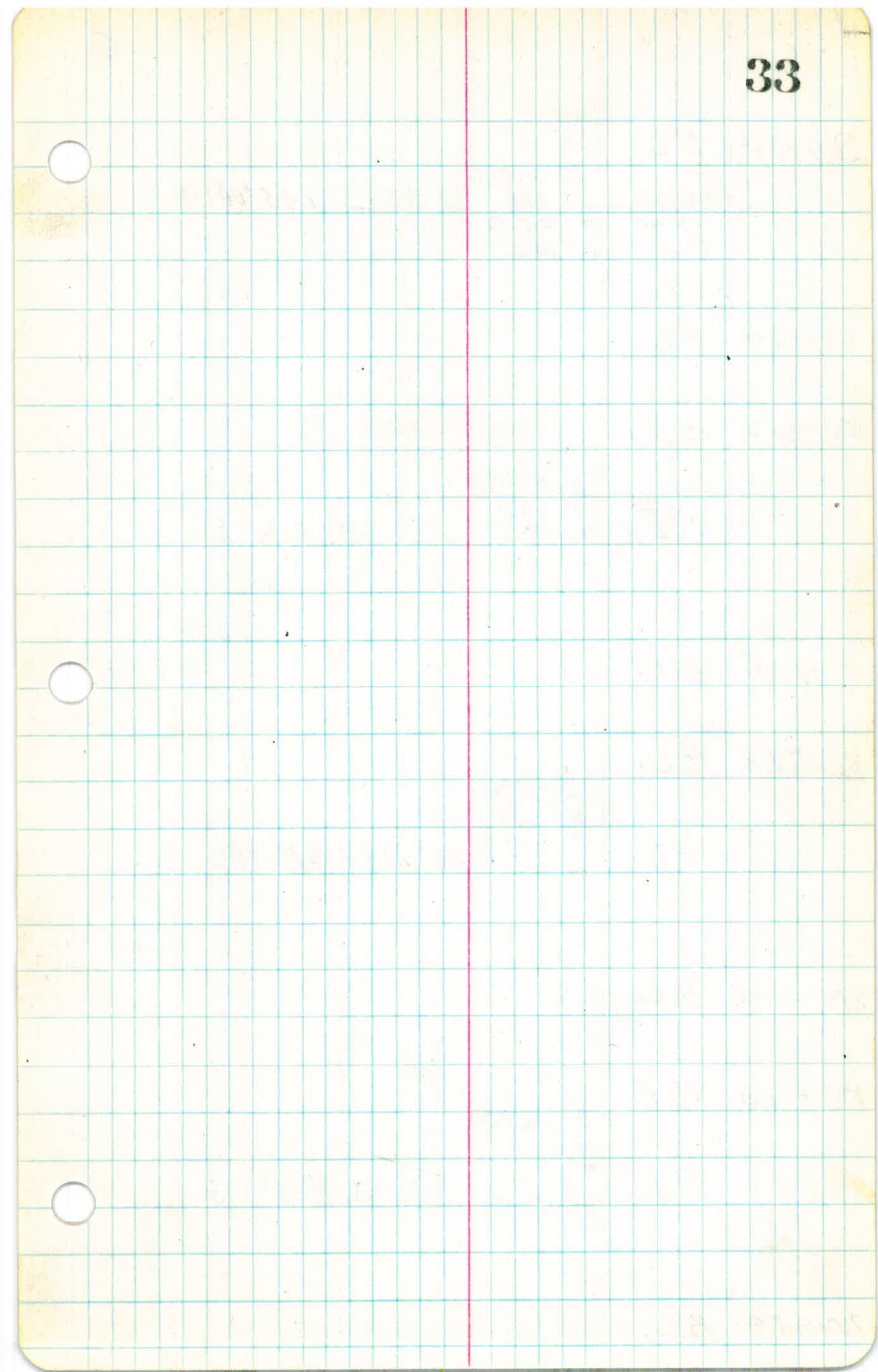
72+56⁴ BC

57+26A E.C.

$\Delta = 60^{\circ}26'$
 $R = 150'$
 $T = 87.4$
 $L = 158.2$

60°26' L N76°14'E

55+68² B.C.53+68² E.C.



90+06^L EC

P.I.

 $\Delta = 81^{\circ}20'$
 $R = 100$
 $T = 85.9$
 $L = 142'$

81°20' L N48°00'

88+64^L BC86+39^E E.C.

P.I.

 $\Delta = 50^{\circ}20'$
 $R = 150$
 $T = 70.6$
 $L = 131.8$

50°20' R S55°40'E

85+07^E B.C.

82+57.8 E.C.

P.I.

 $\Delta = 45^{\circ}10'$
 $R = 150$
 $T = 62.4$
 $L = 118.2$

45°10' R N79°00'E

81+39^B BC

80+12.7 EC

P.I.

 $\Delta = 22^{\circ}20'$
 $R = 300$
 $T = 59.2$
 $L = 116.9$

22°20' R N33°50'E

78+95^B B.C.

109+77 E.C.

 $\Delta = 47^{\circ}08'$
 $R = 100$
 $T = 43.6$
 $L = 82.3$ P.I. $47^{\circ}08' L N 38^{\circ}04' E$
108+94~~8~~ B.C.97+92~~8~~ E.C.
 $\Delta = 46^{\circ}42'$
 $R = 250$
 $T = 107.9$
 $L = 203.8$ P.I. $46^{\circ}42' L N 85^{\circ}12' E$
95+89⁰ B.C.92+97⁰ E.C.
 $A = 83^{\circ}54'$
 $R = 700$
 $T = 629$
 $L = 102.5$ P.I. $83^{\circ}54' R S 48^{\circ}06' E$
91+94[±] BC90+06[±] EC



144+33[±] EC

$$\Delta = 72^{\circ}56'$$

$$R = 100$$

$$T = 73.9$$

$$L = 127.3$$

PI

72°56' L N46°24'E

143+06[±] BC

142-587 EC

$$\Delta = 64^{\circ}20'$$

$$R = 150$$

$$T = 94.3$$

$$L = 158.0$$

PI

64°20' R S60°40'E

144+00[±] BC

140+29[±] EC

$$\Delta = 12^{\circ}00'$$

$$R = 500$$

$$T = 52.5$$

$$L = 104.7$$

P.I.

12°00' R N55°00'E

139+25⁰ B.C

135+39.5 A

7°23' R N43°00'E

128+22[±] A

2°27' L N35°37'E

109+77 EC

8

				9
		$\Delta=10^{\circ}10'$ $R=600$ $T=53.4$ $L=106.5$		
	P.I.		$10^{\circ}10'R$	$N53^{\circ}00'E$
152+296	B.C.			
152+226	E.C.	$\Delta=12^{\circ}00'$ $R=600$ $T=63.1$ $L=125.7$		
	P.I.		$12^{\circ}00'R$	$N42^{\circ}50'E$
150+969	B.C.			
150+863	E.C.	$\Delta=34^{\circ}10'$ $R=300$ $T=92.2$ $L=178.9$		
	P.I.		$34^{\circ}10'L$	$N30^{\circ}50'E$
149+078	B.C.			
147+333	E.C.	$\Delta=18^{\circ}46'$ $R=300$ $T=49.1$ $L=97.4$		
	P.I.		$18^{\circ}46'R$	$N65^{\circ}00'E$
146+359	B.C.			
144+334	E.C.			$N46^{\circ}24'E$

159473.8 E.C.

$\Delta = 48^{\circ}50'$

P.I. R=100 $48^{\circ}50' L$ $55^{\circ}00' E$
T=45.4
L=86.2

158488.6 B.C.

157430.5 EC

$\Delta = 25^{\circ}50'$

P.I. R=300 $25^{\circ}50' R$ $N53^{\circ}50' E$
T=68.8
L=105.3

156495.2 BC

155787 EC

$\Delta = 25^{\circ}00'$

P.I. R=200 $25^{\circ}00' L$ $N28^{\circ}00' E$
T=44.3
L=87.3

154499.2 BC

153436.4 EC

 $N53^{\circ}00' E$

170+83.9

E.C.
E.C.

$$\Delta = 52^{\circ}40'$$

$$R = 103.6$$

$$T = 51.3$$

$$L = 95.2$$

P.I.

52°40' N40°30'W

B.C.

169+88.7

P.C.C.

$$\Delta = 42^{\circ}0'$$

$$R = 300$$

$$T = 115.2$$

$$L = 219.9$$

P.I.

42°0' L N12°10'E

167+68.8

B.C.

160+72.1

E.C.

$$\Delta = 49^{\circ}10'$$

$$R = 100$$

$$T = 45.7$$

$$L = 85.8$$

P.I.

49°10' R N54°10'E

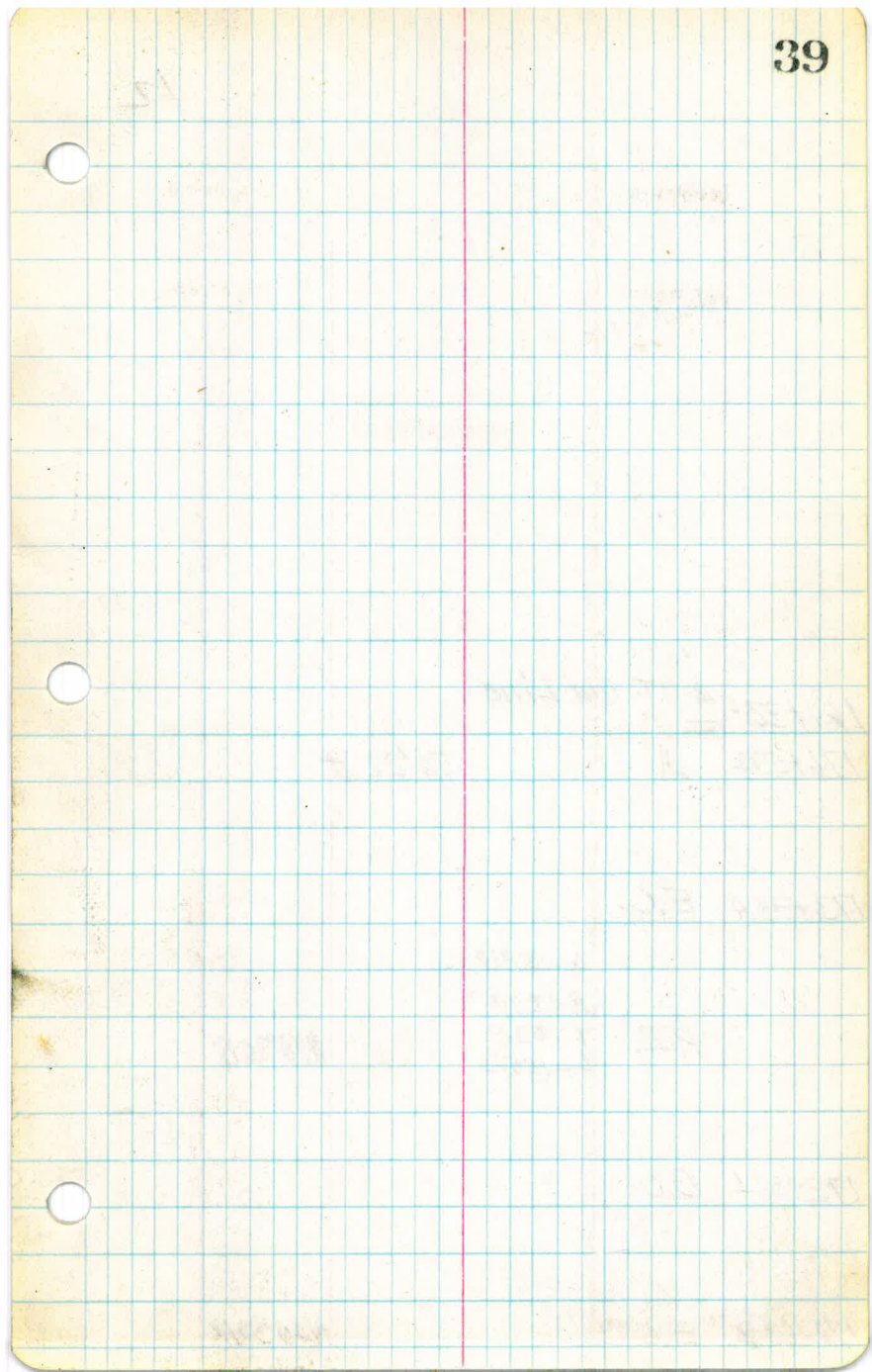
159+86.3

B.C.

159+73.8

E.C.

S5°00'E



88

12

161+336 = A O.T. Old Line

176+596 A

54°22'RT

173+93.4 E.C.

A = 30°10

R = 200

P.I.

T = 53.9

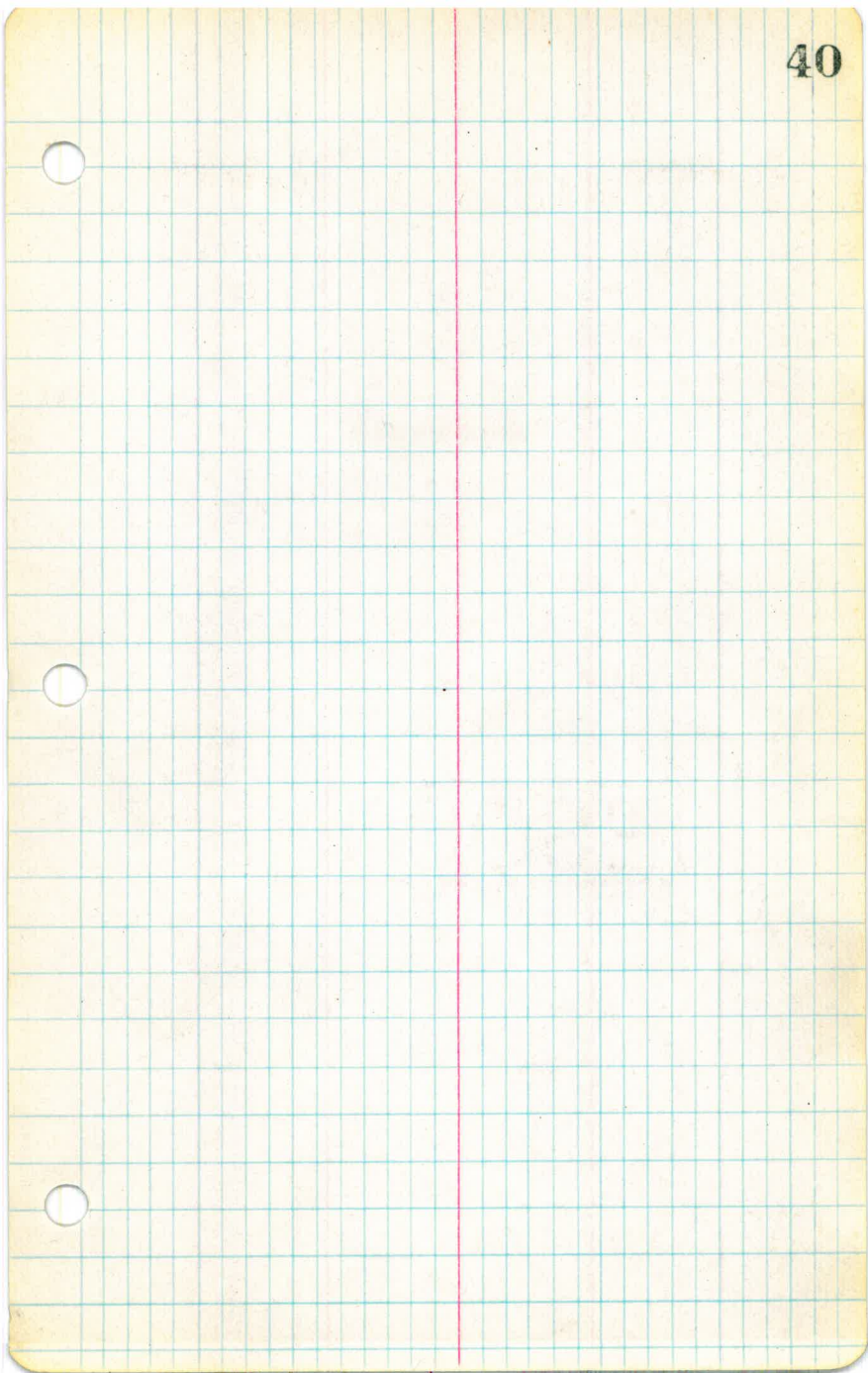
L = 105.3

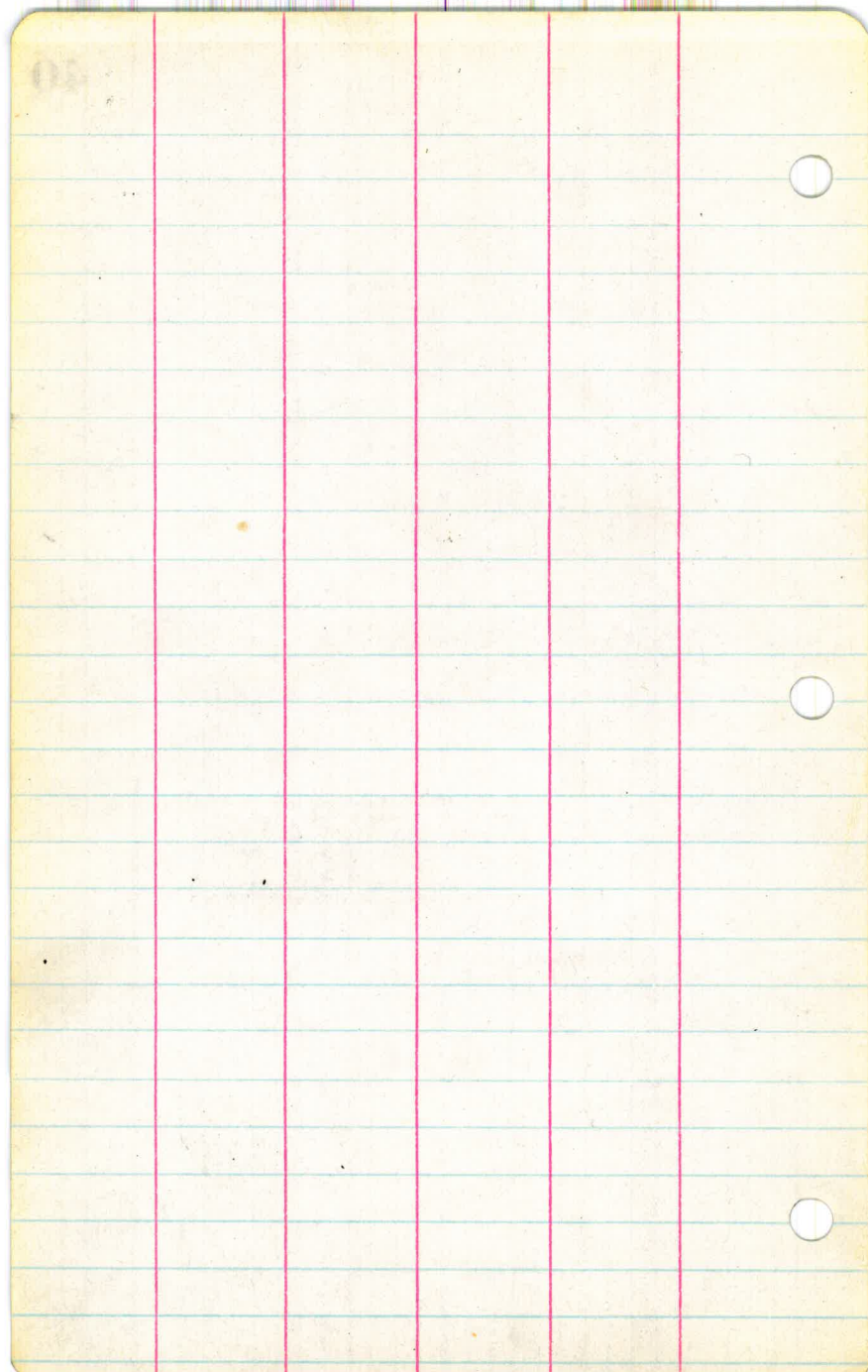
N10°20'W

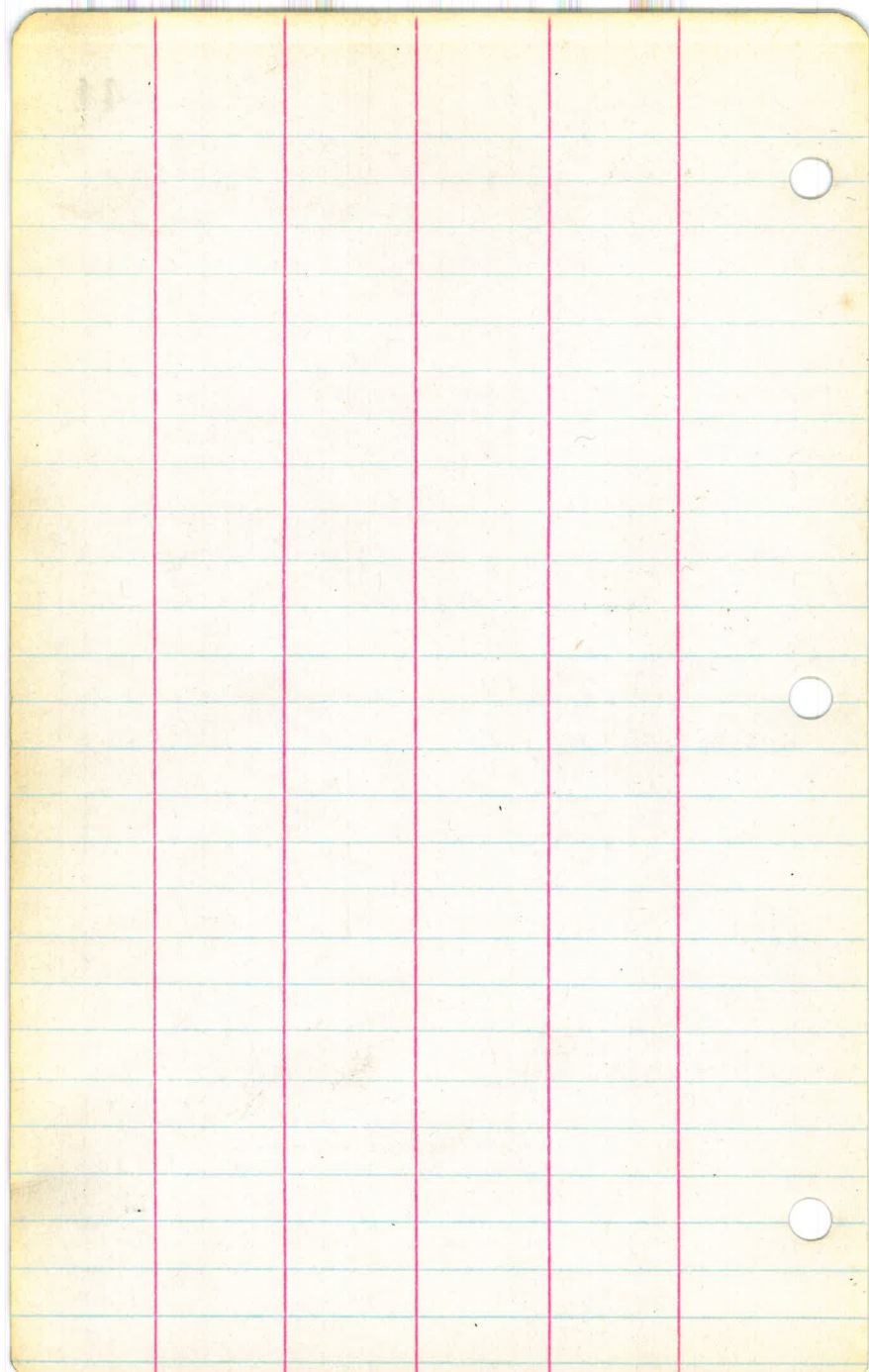
172+88.1 BC

170+83.2 EC

N40°30'W







Stadia Meander of
El Cajon Creek from Site
of proposed El Cajon City
Sewage Disposal Plant to
San Diego River.

Sept. 1928.

Pages 1-12.

Converse

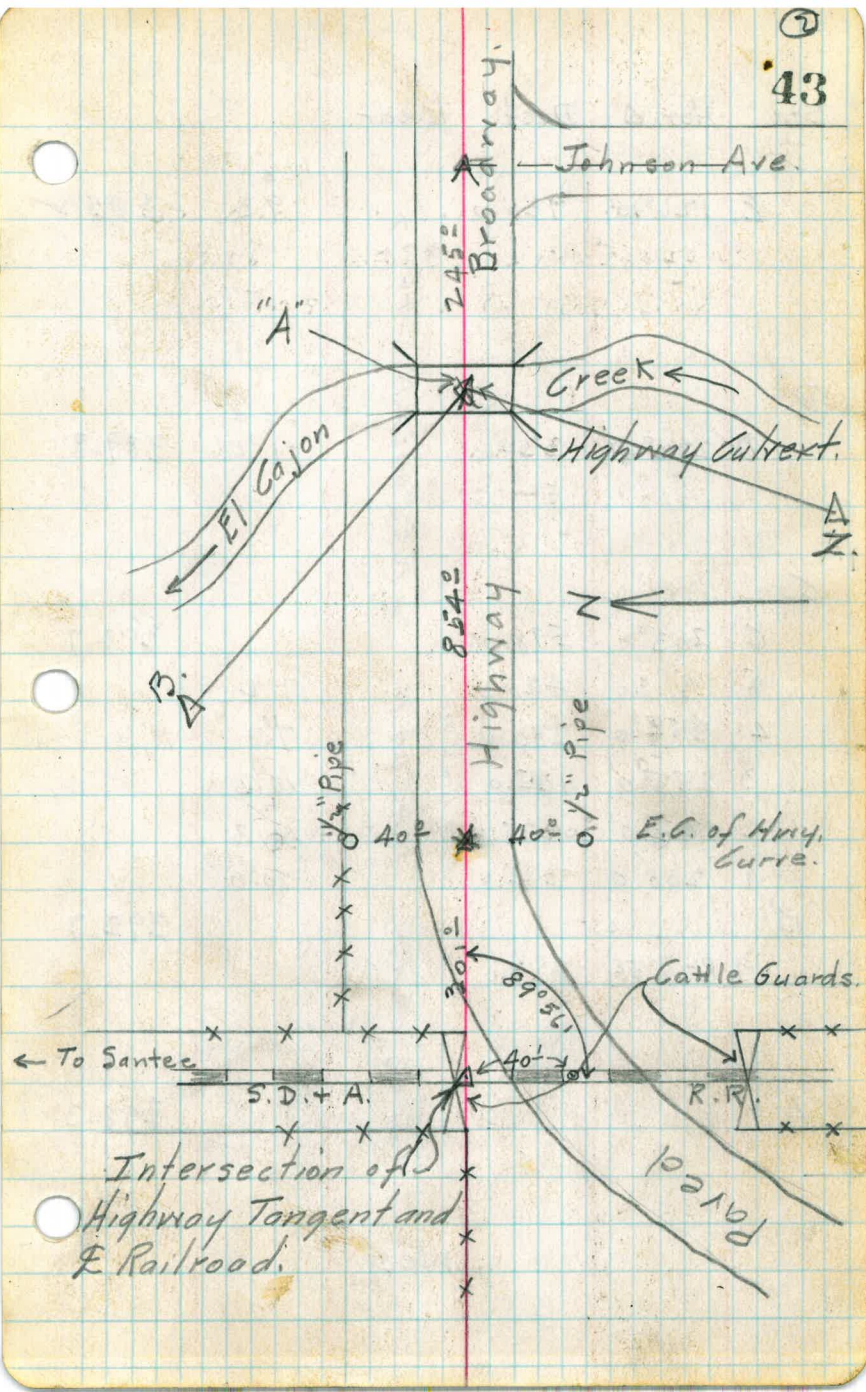
Palmer.

Starting elevation derived from
Co. B.M. Nail in Tree 50'
So. of Pavement on N. Side
Johnson Ave. El. 405.65

$$\begin{array}{r} 405.65 \text{ B.M.} \\ \underline{3.18} \\ 408.83 \\ \underline{10.55} \\ 398.28 = \Delta A. \end{array}$$

Note - Unless otherwise noted
all Hor. Angles read to right from
back Tangent.

Note - Elevations recorded at
Inst. points corrected from
check on El Capitan B.M. #77.



Intersection of
 Highway Tangent and
 R.R. Road.

26 56
5 00

Sta. Hor. Δ. Dist. Bear.

E. 126°10' 930.0

-4.1
9.3

385.2

N. 52°05' E X N. 1°45' W

D.

D. 272°09' 334.0

-6.4
-1°06'

389.8

C.

C. 203°0' 598.0

396.7

5 5°30' 420.0

7.2

4 354°0' 280.0

7.7

3 253°0' 135.0

10.3

2 230°0' 275.0

10.3

1 208°0' 295.0

10.0

Mag. N. 42° W.

N. 40° 04' W.

"B"

B. R. 26°56' 623.0

392.7

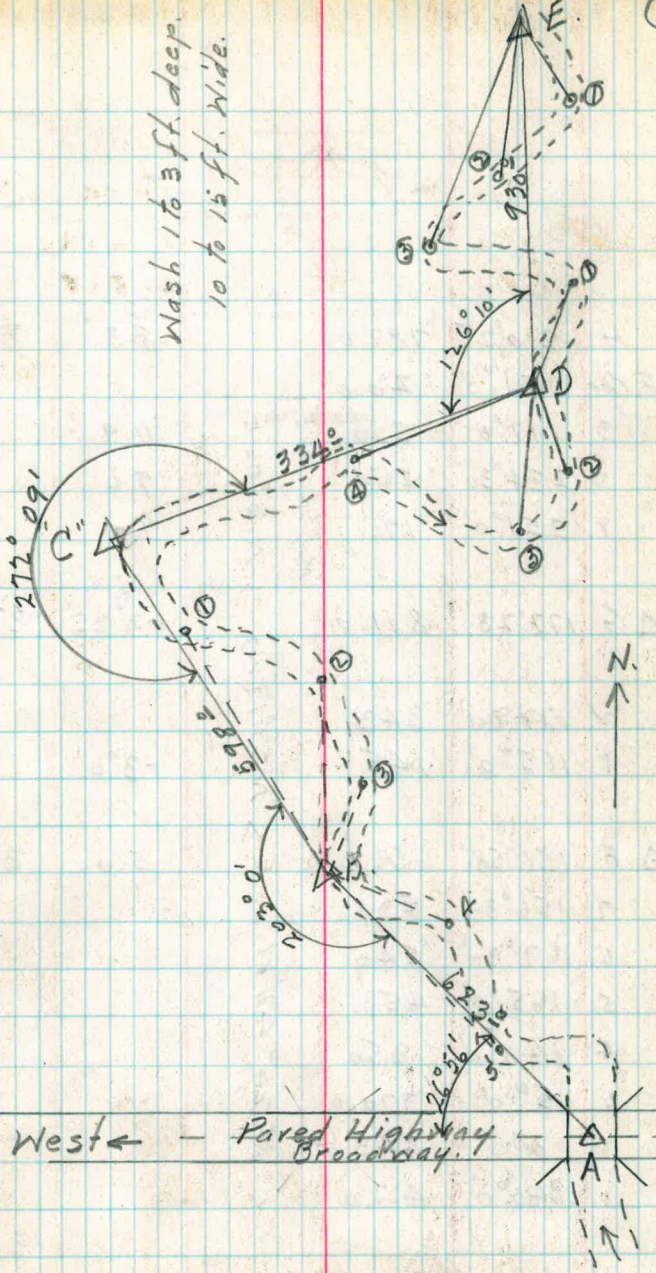
N. 63°04' W

"A"

R.

398.3

West



3

44

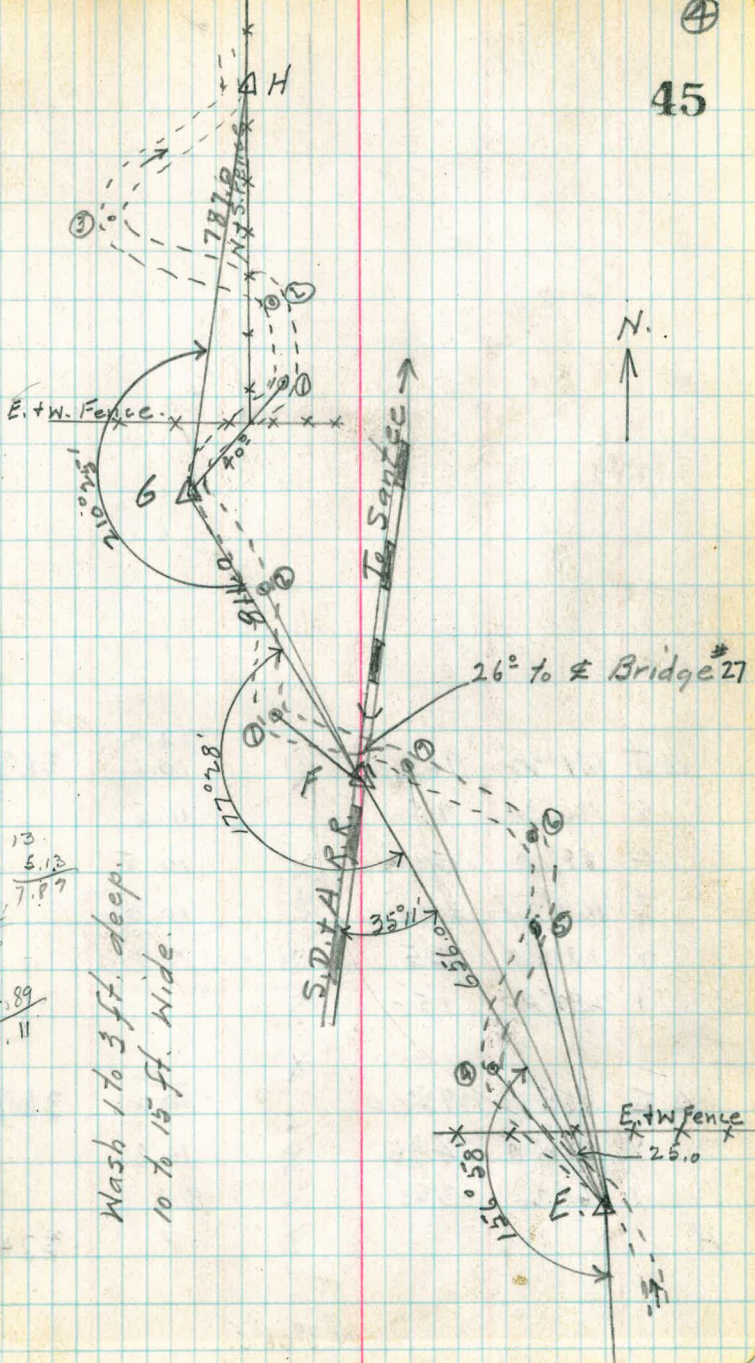
				-3.1	
	H	210°25'	787.0	8.3	374.7
	F. Cor.	251°0'	40.0		
	3	197°0'	510	11.9	
	✓	234°30'	254	7.3	
	1	251°0'	170	9.0	
G.				-5.9	
	Δ G	177°28'	811.0	-0°25'	378.3
	✓	177°30'	343		
	1	165°0'	145	-3°0'	
F					
	Δ F	156°58'	656.0	5.0	384.7
	7	156°30'	530		
	6	167°30'	540		
	5	165°0'	450		
	4	148°0'	350		
	3	5°0'	770.0		
	2	0°0'	445.0		
	1	340°0'	417.0		
E.					385.2

N. 9.0° 30' E.
N. 3° 06' E.

N. 27° 19' W

N. 24° 47' W

N. 1° 45' W



$$\begin{array}{r} 13 \\ 6.4 \\ \hline 6.56 \end{array}$$

$$\begin{array}{r} 13 \\ 4.89 \\ \hline 8.11 \end{array}$$

Wash 1 to 3 ft. deep.
10 to 15 ft. wide.

ΔJ	$181^{\circ}22'$	969.0	N. $10^{\circ}14'N$	-4.9	363.8
5	$186^{\circ}30'$	750		10.1	
4	$188^{\circ}0'$	590		11.5	
3	$160^{\circ}30'$	400		10.5	
2	$182^{\circ}0'$	235		10.0	
1	$282^{\circ}45'$	150		7.9	

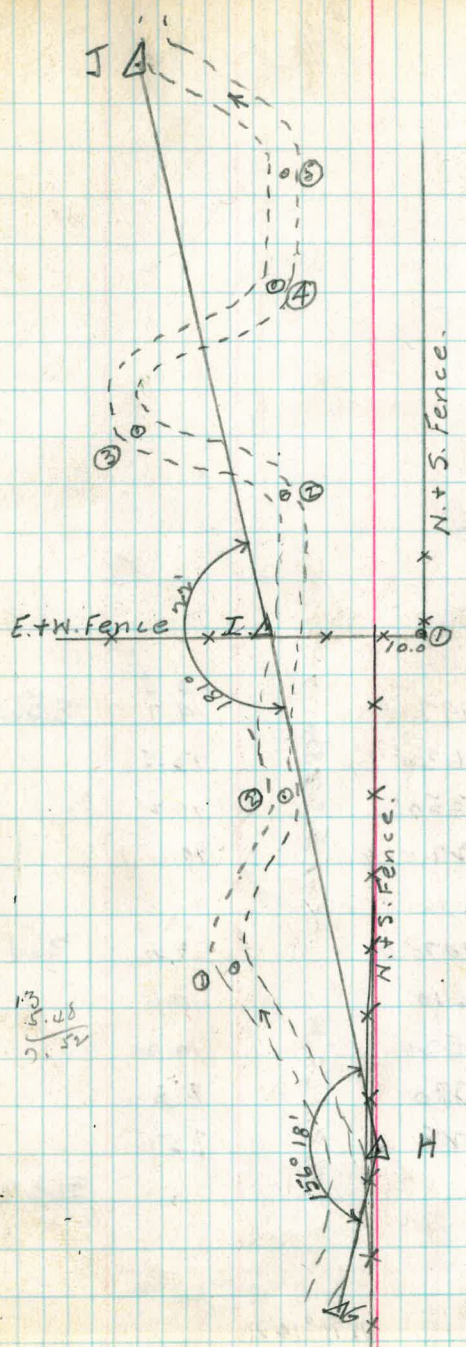
I.

ΔI	$165^{\circ}18'$	752.0	N. $11^{\circ}36'W$	5.0	369.2
2	$171^{\circ}0'$	495		10.2	
1	$160^{\circ}30'$	350		10.3	

H.

				9.6	374.7
--	--	--	--	-----	-------

N. $3^{\circ}06'E$.



Wash 1 to 3 ft deep,
10 to 15 ft wide.



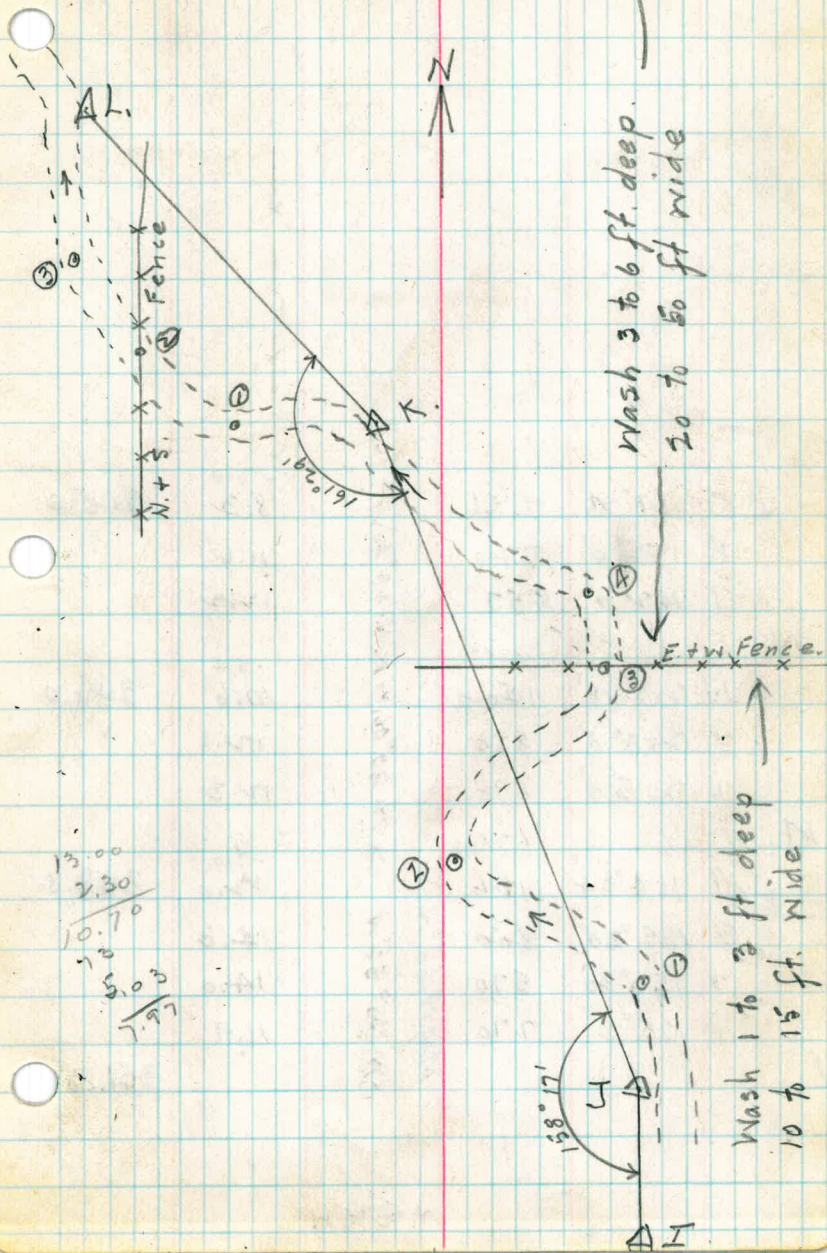
153
15.28
152

L.					
ΔL	161°29'	797.0		-4.5	
3	149°0'	630		9.7	356.3
✓	142°0'	350		13.5	
1	117°0'	220		10.2	
				10.6	

K					
ΔK	158°17'	1070.0		-2.0	
4	175°0'	610		7.0	361.3
3	176°0'	520		10.6	
✓	161°0'	380		10.2	
1	188°0'	125		8.5	
				7.5	

J.					
					363.8

N.10°14'W



$$\begin{array}{r} 13.00 \\ 2.30 \\ \hline 10.70 \\ 10.70 \\ \hline 21.40 \\ 1.27 \\ \hline 22.67 \end{array}$$

ΔO	$161^{\circ}26'$	9.56		-3.0	
\sphericalangle	$155^{\circ}0'$	720		8.3	340.0
1	$162^{\circ}0'$	457		11.6	
				12.2	

N.

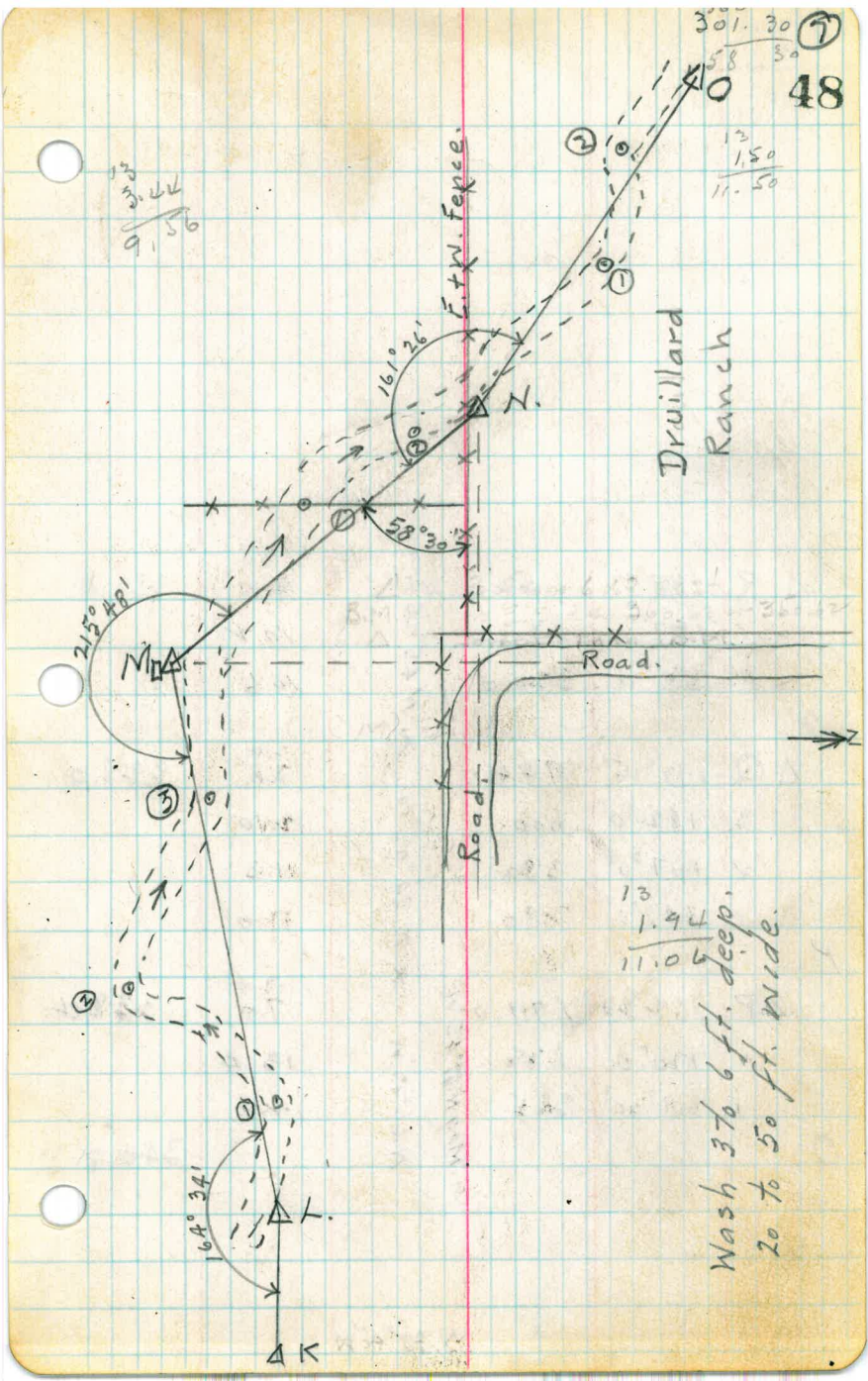
ΔN	$215^{\circ}48'$	1150.0	X N. $30^{\circ}06'W$ X N. $48^{\circ}40'W$	-3.4	
\sphericalangle	$218^{\circ}0'$	860		10.6	344.0
1.	$215^{\circ}0'$	690		12.1	
				12.3	

M.

ΔM	$164^{\circ}34'$	1106.0	Mag. N. $68^{\circ}W$ X N. $65^{\circ}54'W$	-7.0	
3	$165^{\circ}30'$	800		12.0	348.3
\sphericalangle	$153^{\circ}30'$	570		14.0	
1	$175^{\circ}0'$	270		14.0	
				11.9	

L. 356.3

N. $50^{\circ}28'W$



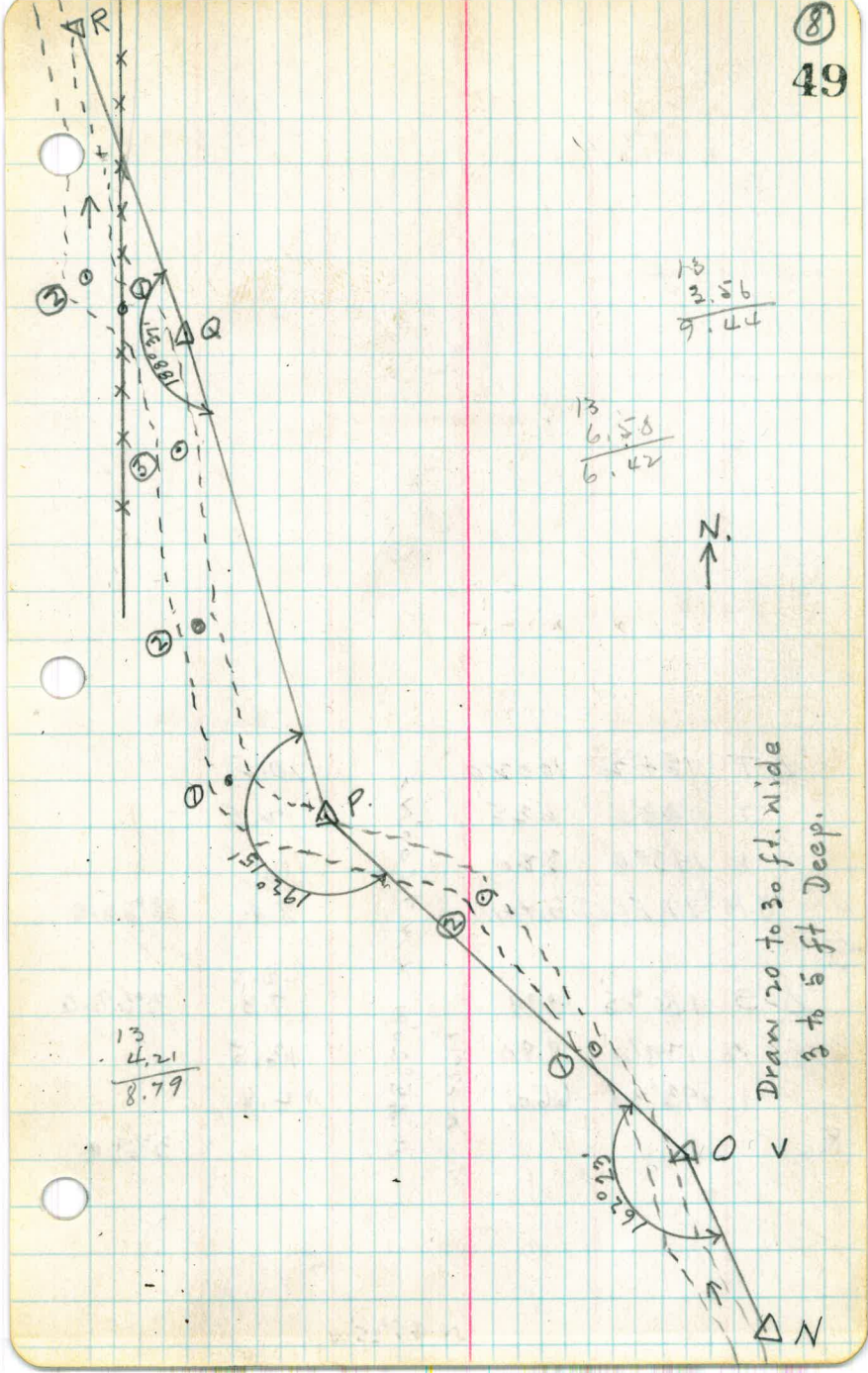
Δ R	188°37'	642.0	N. 45° 25' W ^	-3.6	331.0
	157°0'	455.0		9.0	
	159°0'	320.0		10.2	

Q	Δ Q	192°15'	944.0	N. 54° 02' W x	2.8	335.0
	3	182°0'	600		7.8	
	✓	167°0'	380		12.0	
	1	146°0'	280		11.3	

P.	Δ P	162°23'	879.0	Mag N. 69° 45' W. N. 66° 17' W	-2.0	338.0
	✓	170°0'	635		7.0	
	1.	168°30'	365		13.4	

O					12.0	340.0
---	--	--	--	--	------	-------

N. 48° 40' W



	ΔT	$154^{\circ}20'$	1002.0		10.5	
	γ	$148^{\circ}0'$	635		12.5	
	1	$193^{\circ}0'$	320		11.0	
	B.M. #77	El Capitan			-3.0	
					8.4	325.0
S.	ΔS	$180^{\circ}05'$	899		-2.4	
	γ	$179^{\circ}0'$	880		7.8	328.0
	1	$193^{\circ}30'$	660.		13.5	
R.					12.8	
						339.0

Mag. N 47° W
N. 45° 20' W X N. 71° 00' W

N. 45° 25' W

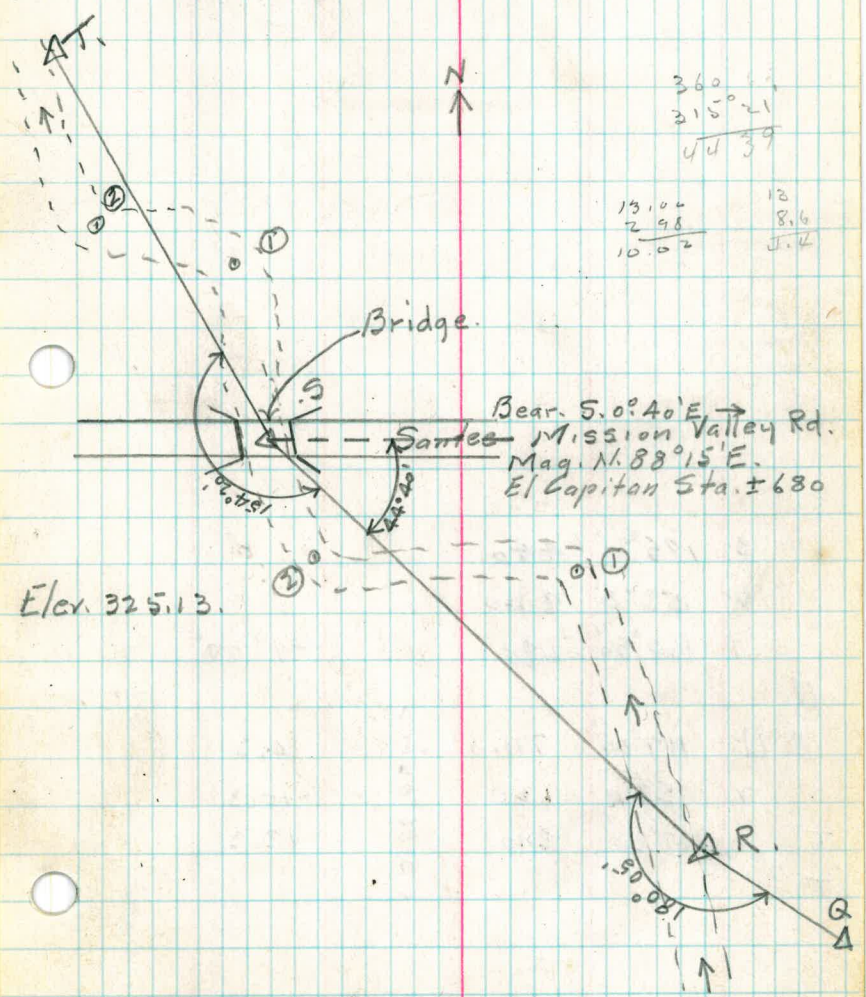
8.4

②

$$\begin{array}{r} 13 \\ 4.01 \\ \hline 8.99 \end{array}$$

$$\begin{array}{r} 360 \\ 215^{\circ} 21' \\ \hline 44^{\circ} 39' \end{array}$$

$\begin{array}{r} 13.104 \\ 2.98 \\ \hline 10.02 \end{array}$	$\begin{array}{r} 12 \\ 8.6 \\ \hline 1.4 \end{array}$
---	--



3 185°30' 440

4 158°0' 920

1 164°30' 680

-1°07'

U.

ΔU 167°00' 771.0

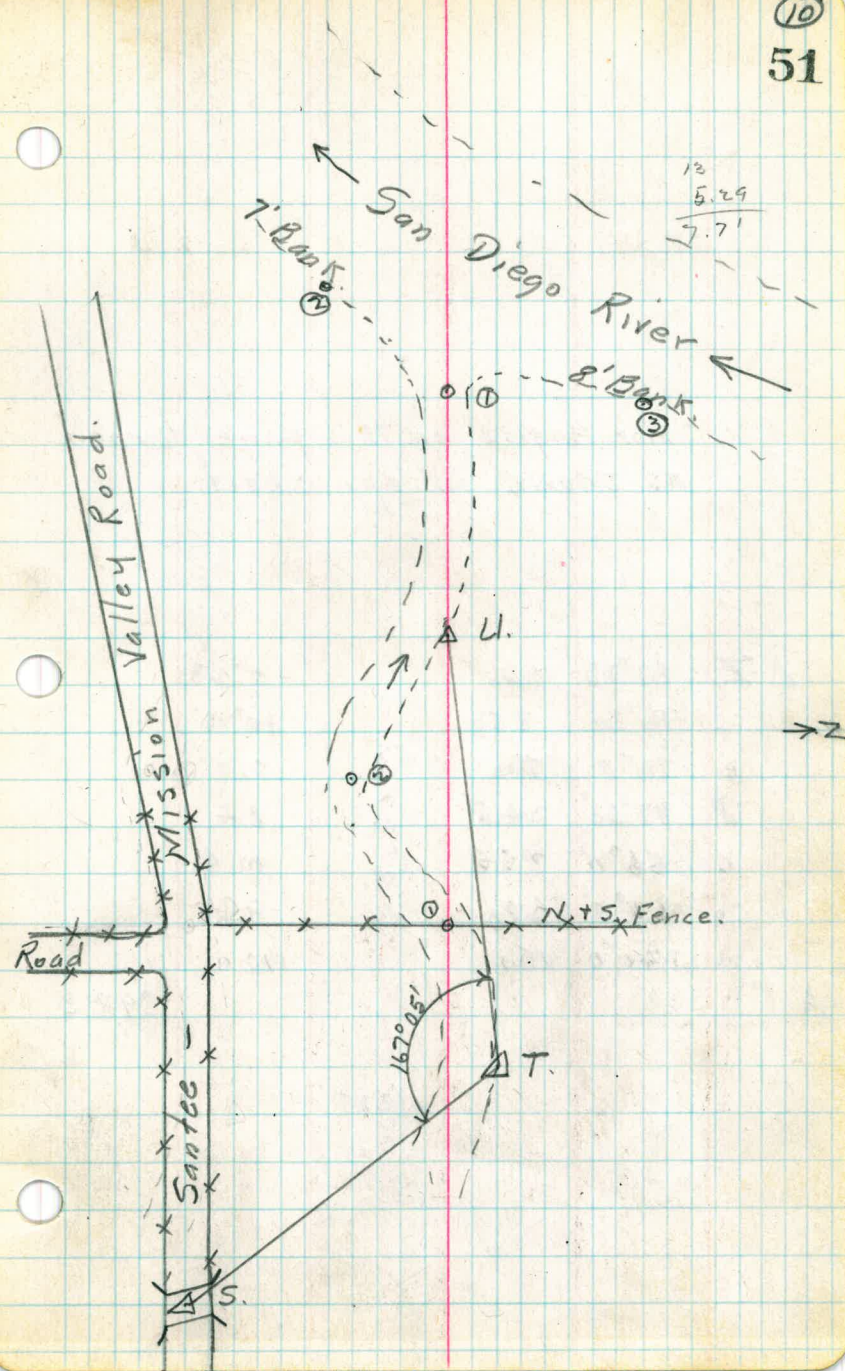
2 158°0' 620

T 1 167°30' 310

T

5.86005'N

N.71°00'W



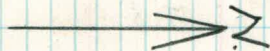
Hor. Angles on this page turned
as shown on opp. sheet.

ΔZ	$87^{\circ}23'$	1033.0		$+0^{\circ}23'$
f	$95^{\circ}30'$	850		$+0^{\circ}16'$
e	$71^{\circ}0'$	700	5.2°37'W	7.0
d	$87^{\circ}30'$	345		8.4
c	$66^{\circ}0'$	355		10.4
b	$67^{\circ}0'$	280		9.6
a	$120^{\circ}0'$	150		10.0
A				398.3

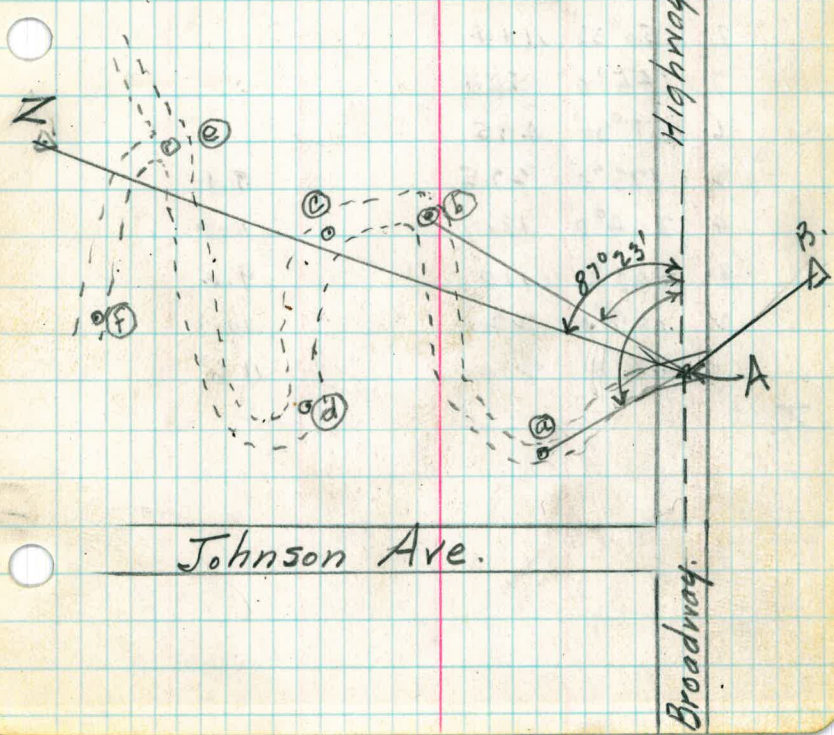
West

S.D. & H.

R.R.



10
2.67
10 33

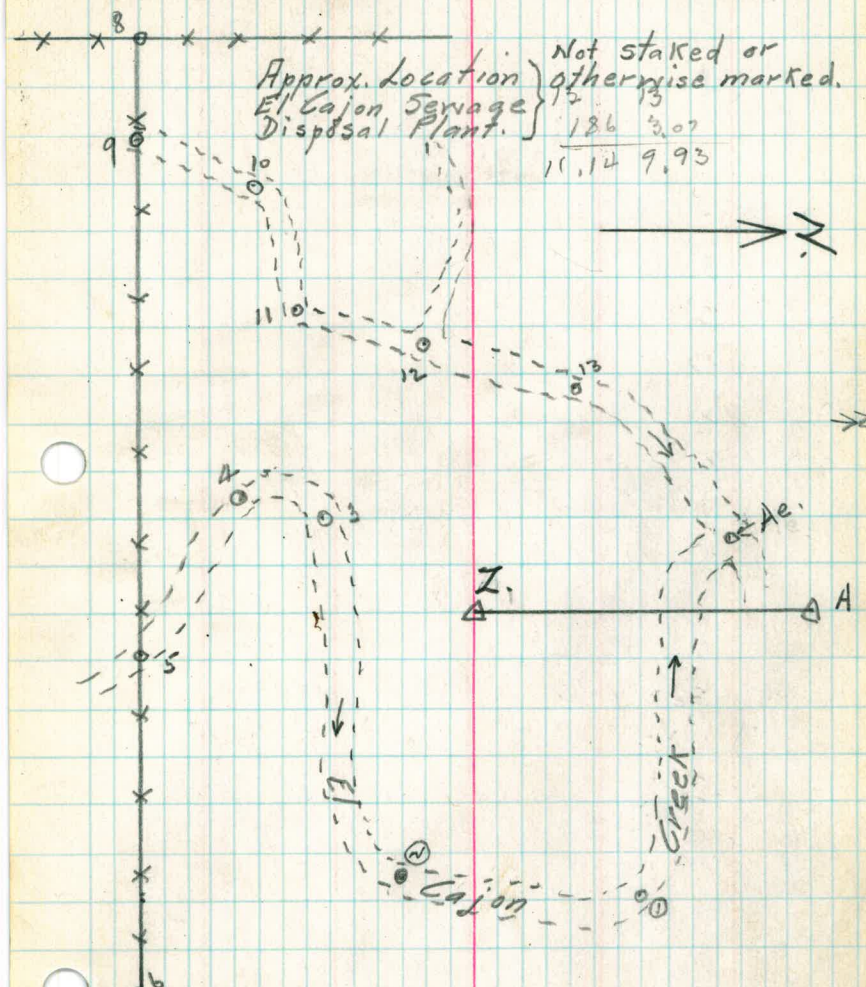


Hor. Angles recorded on this
page read to right from back tangent.

13	278° 0'	300	7.8
12	267° 15'	490	6.3
11	250° 15'	725	+0° 34'
10	250° 30'	820	
9	248° 30'	993	
8	250° 35'	1114	
7	146° 0'	560	
6	138° 30'	415	
5	173° 0'	325	9.1
4	204° 0'	180	8.8
3	207° 0'	110	9.0
2	109° 0'	220	10.1
1	42° 0'	210	11.6

Z,

S. D. + A. R. R.



Road

Johnson Ave.

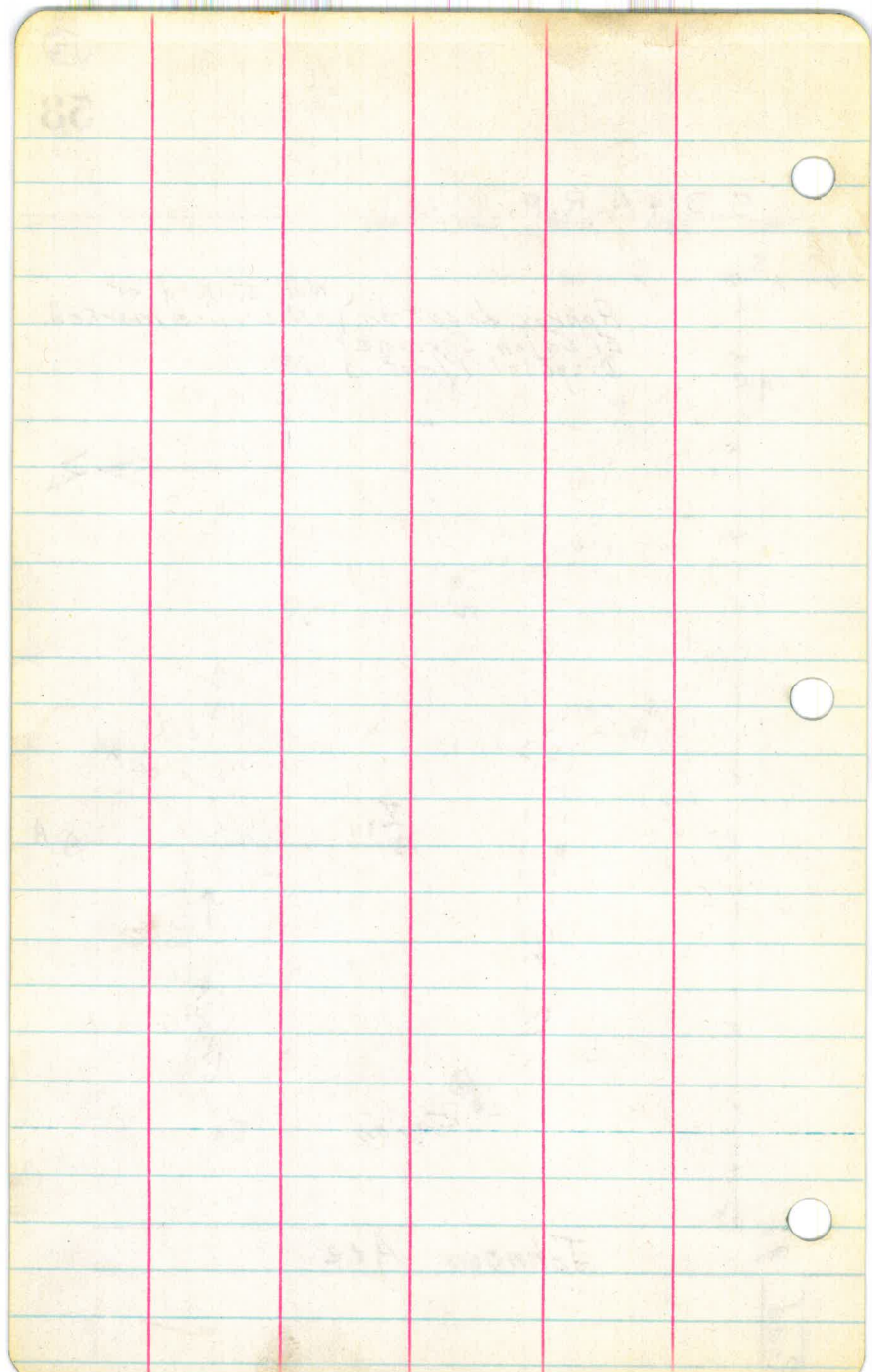
Cajon

Creek

Z.

Ae.

A

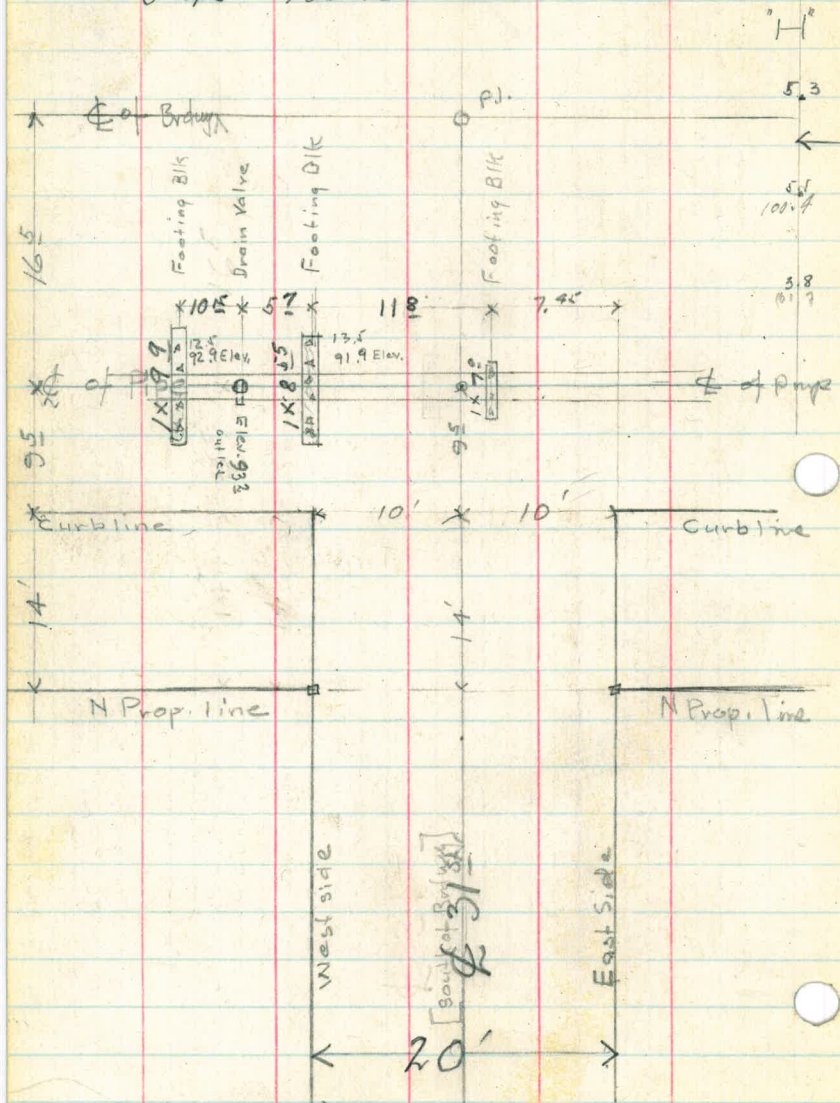


Field notes on
Proposed
Sand trap at 31st Broadway

Elev. of Co-ordinate Points
for Sand trap 31 1/2 x Broadway H

Datum = Invert Flowline of Pipe = 100.00

5.43 105.43



H.I. 105.47

NOV 20 1928

10' x 10.0' x 10' x 10' x 10' x 10' x 10' x 10' x 10' x 10'
G "F" "E" "D" "C" "B" "A"
± of Bridge ± of Bridge

55

7.3 10.1 11.9 12.3 10.6 6.5 1.3 20 N line
95.4 93.6 93.2 94.9 99.0 104.2

7.3 9.7 11.7 12.2 12.9 12.1 7.2 1.5 10 N line
95.8 93.8 93.3 92.6 98.4 98.3 104.0

exposed section of Pipe 70"

7.5 10.7 11.7 13.0 14.1 8.2 5.5
98.0 94.8 93.8 92.5 91.4 97.3 100.0
Main

7.1 Cur 10.7 12.3 13.0 14.2 13.4 8.7 4.0 9.5 line
94.8 93.2 92.5 91.3 92.1 96.8 101.5 = Curblina S-S. Bridge

9.5 10.6 12.7 13.3 14.2 13.0 8.4 4.1 16.5 line
96.9 94.9 93.3 92.2 91.3 92.5 97.1 101.4

8.1 S.B. 10.1 13.7 13.6 14.2 12.9 9.5 5.0 2.3 line
95.4 92.8 91.9 91.3 92.6 96.0 100.5 = S. Prop. line Bridge

13.2 14.3 14.7 13.9 10.8 7.0 33.5 line
92.3 91.2 91.2 91.6 95.2 98.5

13.4 15.2 14.3 12.8 9.4 43.5 line
91.1 90.3 91.2 93.5 96.1

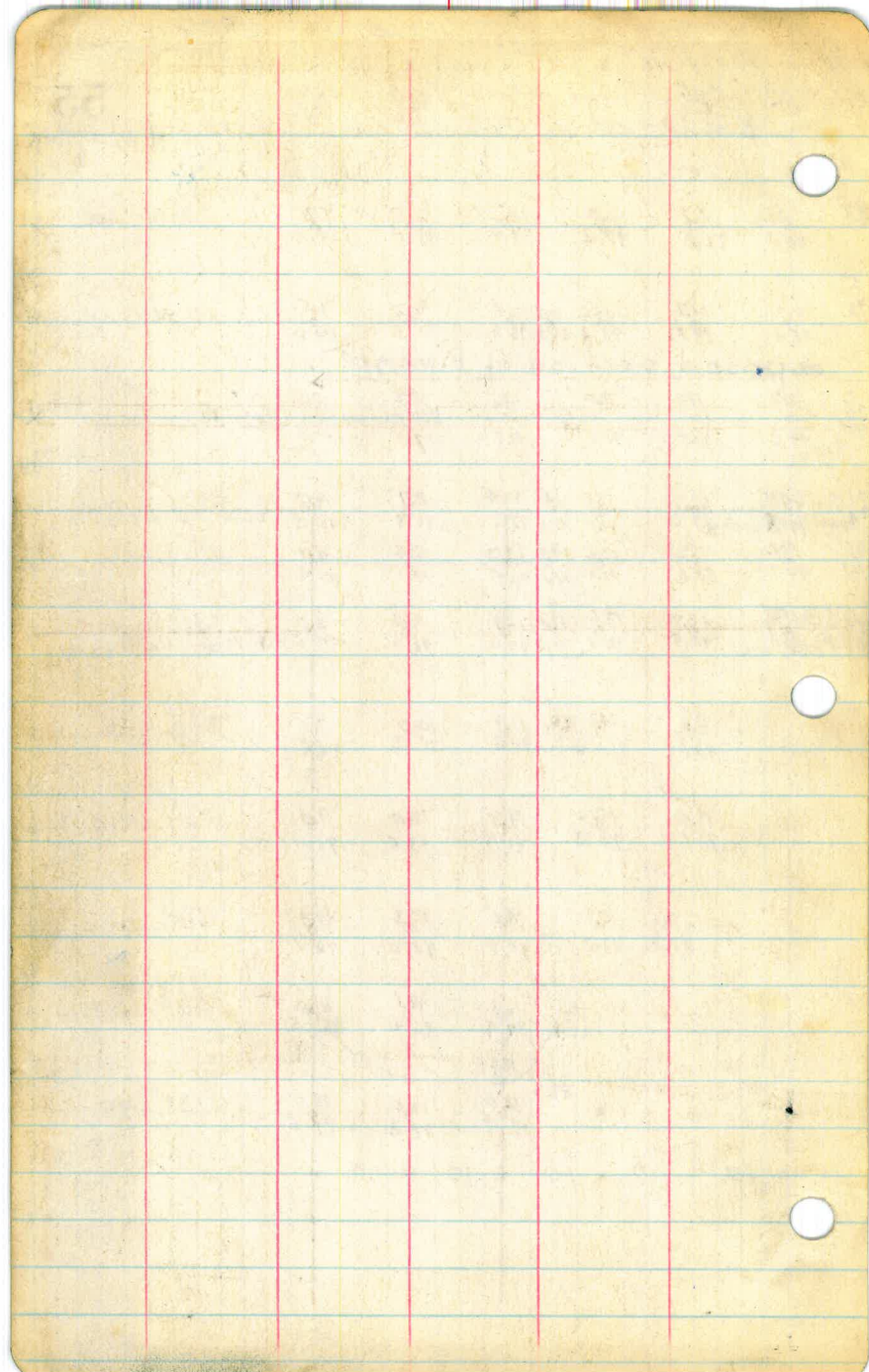
16.6 15.7 14.6 15.3 12.4 53.5 line
88.7 89.8 90.9 90.2 98.1

18.1 16.1 19.1 20.0 63.5 line
87.4 89.4 86.4 88.5

18.2 17.2 18.0 73.5 line
87.3 89.5 87.3 87.5

10' x 10' x 10' x 10' x 10' x 10' x 10' x 10'

10'
10'
10'
10'
5'
10'
10'
10'
10'
10'
10'
10'
10'



Profile Levels on East Side
Axis of San Vicente Dam.

Starting at a point on the West
Edge County Highway Pavement.
which is Sta. 0100 on 750 Ft.
Contour Survey.

May, 1926.

Wm Simpson. Inst.

0100	476.7
0101	476.8
+20	476.4
+31	477.1
+50	484.5
+69	492.7
+76	493.1
1+00	502.8
+15	512.0
+50	531.5
2 2+00	563.2
+15	568.5
+35	596.8
+50	602.5
+54	604.8

ORIGINAL COPY. 1910 BY J. C. PARKER

②
LEFAX FILMS INDEX

0100 is starting point of 750 ft.
Contour Survey.
West. Edge. Co. Highway Pavement.
East Edge " " " .

LEFAX, PHILADELPHIA, PA.

277	607.5
+94	614.3
300	615.6
+50	637.4
+66	646.3
400	663.0
+19	672.1
+38	688.1
+40	700.4
+50	707.5
+55 ³¹	709.9
500	728.5
+38	744.5
+50	746.6
+64	749.1
+68	747.8

ORIGINAL COPR. 1910 BY J. C. PARKER

LEFAX, PHILADELPHIA, PA.

42

3

LEFAX FILING INDEX

58

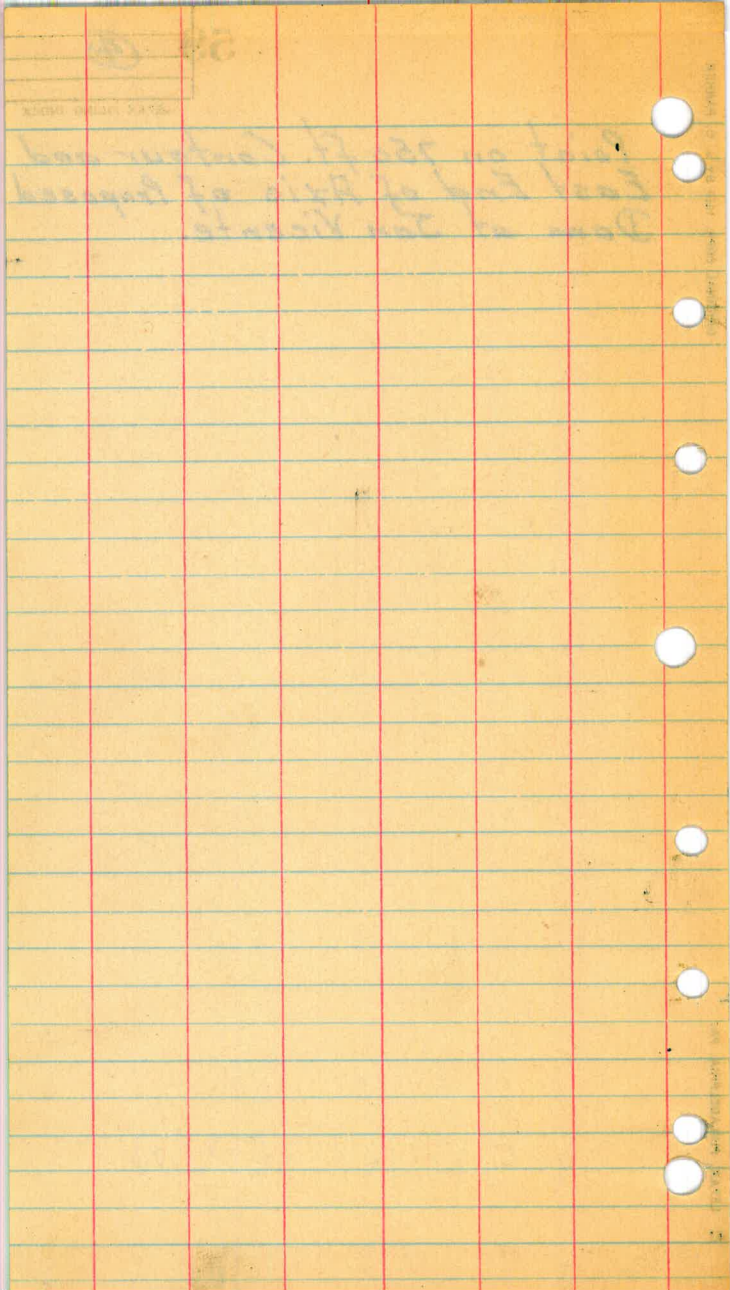
5+74 88

B.M.

750.0

750.758
956
.002

Point on 750 ft. Contour and
East End of Axis of Proposed
Dam at San Vicente.



STATE OF TEXAS

County of [illegible] State of Texas
I, [illegible] of the County of [illegible] State of Texas
do hereby certify that [illegible]

52

ORIGINAL COPR. 1910 BY J. C. PARKER

60

LEFAX FILING INDEX

LEFAX, PHILADELPHIA, PA.



Solar on Axis of San Vicente
Dam Site. May 15, 1926.
(M^cCarty.)

	Time	Vert. Δ	Hor. Δ
☉	7-38.0	33°55'	11°30.5' R
☽	7-40.3	33°52'	11°10' R

☉	7-42.6	34°54'	12°07' R
☽	7-44.5	34°46'	11°44' R.

Mean	^{h. M.} 7-41.4	34°21.8'	11°37.9' R.
------	-------------------------	----------	-------------

$$\begin{array}{r} \text{Lat.} = 32^{\circ}54.6 \\ \text{Vert. } \Delta = 34^{\circ}21.8 \\ \text{Hor. } \Delta = 11^{\circ}37.9 R. \end{array} \quad \begin{array}{r} h \\ m \\ 7 \ 41.4 \\ 15 \ 41.4 \end{array}$$

$$\begin{array}{l} L = 32^{\circ}54.6 \\ D = 18^{\circ}47.3 \\ h = 34^{\circ}20.6 \end{array} \quad \text{Cos. } I = \frac{\sin D - \sin L \sin h}{\cos L \cos h}$$

$$\text{Log. } \sin L = 9.735057$$

$$\text{Log. } \sin h = 9.751395$$

$$\underline{9.486452} = .30652$$

$$\text{Log. } \cos L = 9.924034$$

$$\text{Log. } \cos h = 9.916807$$

$$\underline{9.840841}$$

$$\sin D = .32207$$

$$\underline{.30652}$$

$$.01555 = 8.191730$$

$$\underline{9.840841}$$

$$\text{Log. } \cos I = 8.350889 =$$

$$88^{\circ}43.1$$

$$\underline{11^{\circ}37.9}$$

$$N \ 77^{\circ}05.2 \ E.$$

Handwritten notes on a piece of aged, yellowed lined paper with three red vertical margin lines and seven punch holes on the right side. The text is extremely faint and mostly illegible, appearing to be a list or set of calculations. Some discernible fragments include:

- Top left: "1000" and "1000"
- Top right: "1000" and "1000"
- Middle section: "1000" and "1000"
- Bottom section: "1000" and "1000"

May 15
Solar on Axis

	Time	Vert Δ	Hor Δ
4	7:38.0	33°55'	11°30.5'R

4 ₆	7:40.3	33°52'	11°10'R
----------------	--------	--------	---------

4 ₆	7:42.6	34°54'	12°07'R
----------------	--------	--------	---------

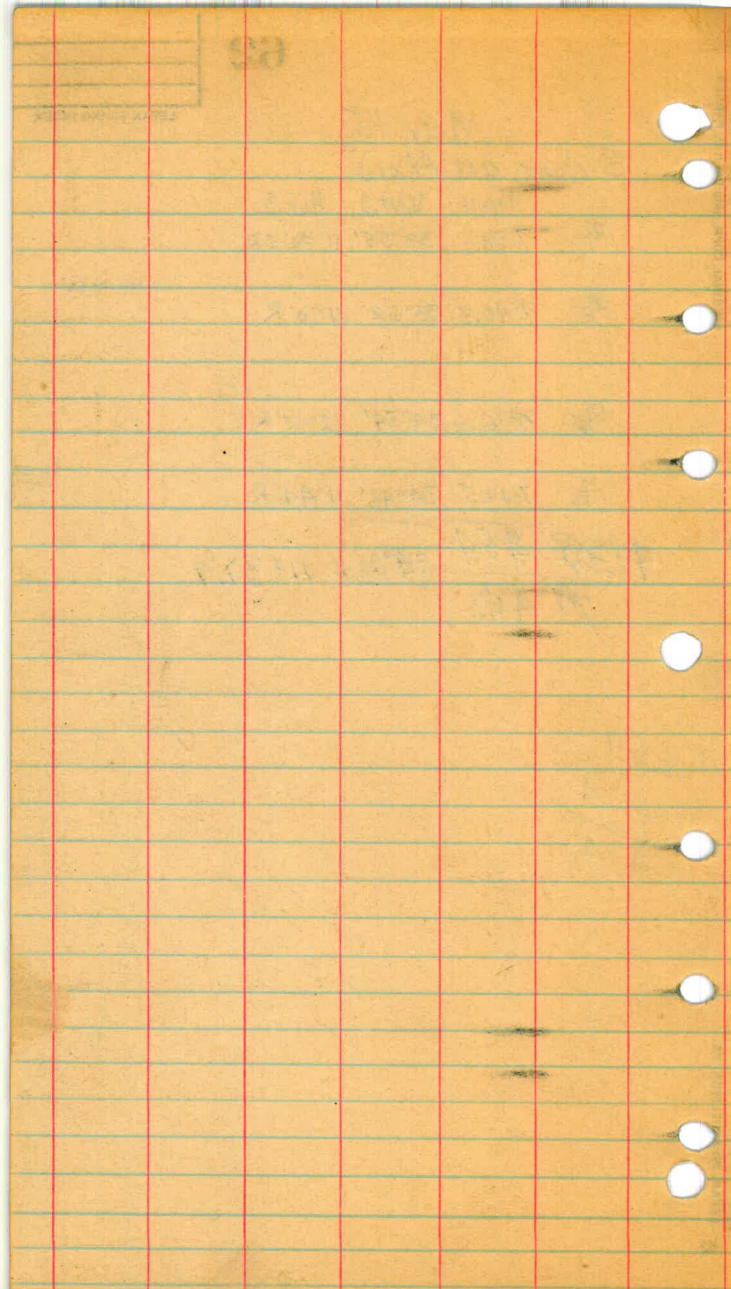
6	7:44.5	34°46'	11°44'R
---	--------	--------	---------

4	7:30	45.9	34°06.8	11°37.9
7	41.3			

4 | 125.4

4 | 165.4

41.3



Traverse south from West end of Axis
Sta. Bearing Dist. Cos Sin N S E W

0+00	S77°05'W	715.7	.22353	.97470	159.98	697.59
7+15 I	S4°45.4'W	91.9	.99655	.08295	91.58	7.62
8+07 6	S20°18.5' E	135.13	.93784	.34708	751.56	705.21
9+42 73	S46°58'W	82.88	.68242	.73096	378.29	658.31
10+25.61					56.56	60.58
					434.05	718.89

1035+01

25 84+P

8+0+8

1410 I

0040

210

210

210

11.10.2018
Dip 200' NW
Dip 200' NW
Dip 200' NW
Dip 200' NW

11.10.2018
200' NW
200' NW
200' NW

11.10.2018
200' NW
200' NW
200' NW

11.10.2018
200' NW
200' NW
200' NW

11.10.2018
200' NW
200' NW
200' NW

11.10.2018
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11.10.2018
200' NW
200' NW
200' NW

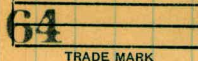
11.10.2018
200' NW
200' NW
200' NW

11.10.2018
200' NW
200' NW
200' NW

Sta.	Bear.	Dist	Cos	Sin	N	S	E	W
T ₁					2135.82			159.44
7+24 ⁵⁵	N66°43'6"W	774.55 ^{824.55}	39512.91863		2234.22			141.68
10+61 ²³	N75°09'6"W	336.68	25612.96664		284.28 ^{325.80}			757.46
21+40 ²⁸	N72°13'6"W	1079.05	30525.95227		22461.62			665.59
= T ₅	N72°13'6"W				86.23			825.03
					2547.85			325.45
					329.38			1242.35
					2877.23			1027.55
								2269.90

T₅ ~~2936.11~~ X
 2837.71
 2877.23

~~2160.27~~ X
 2178.03
 2269.90



6000

DATE	DESCRIPTION	AMOUNT
10/11/01	BANK	100.00
10/12/01	BANK	100.00
10/13/01	BANK	100.00
10/14/01	BANK	100.00
10/15/01	BANK	100.00
10/16/01	BANK	100.00
10/17/01	BANK	100.00
10/18/01	BANK	100.00
10/19/01	BANK	100.00
10/20/01	BANK	100.00
10/21/01	BANK	100.00
10/22/01	BANK	100.00
10/23/01	BANK	100.00
10/24/01	BANK	100.00
10/25/01	BANK	100.00
10/26/01	BANK	100.00
10/27/01	BANK	100.00
10/28/01	BANK	100.00
10/29/01	BANK	100.00
10/30/01	BANK	100.00
10/31/01	BANK	100.00

Sta.	Bear.	Dist	Cos.	Sin	N	S	E	W
0+00	N22°15'5" W	515.3	92540.37879					
5+15 <u>3</u>	N42°54'3" W	342.3	73248.68078		476.90			195.19
8+57 <u>6</u>	N14°18'3" W	276.2	96898.24710	^{98700.21708}	250.73			233.03
11+33 <u>8</u>	N10°13'9" E	^{348.5} 448.5	98410.17763	^{267.64} 267.63				^{68.24} 68.25
¹⁴ 15+82 <u>3</u>	N63°18'4" E	310.4	4492189342	^{342.96} 441.37			^{61.90} 79.67	79.67
¹⁷ 18+92 <u>1</u>	N0°11'5" W	658.16	99999.00334		139.44		277.32	
²⁴ 25+50 <u>86</u>					658.15			2.20
				^{273.23} 2234.22				^{339.24} 498.66
			2135.822					366.99 498.66

Sta.	Bear.	Dist	Cos	Sin	N	S	E	W
2019	000	100	1.0000	0.0000	100	0	0	0
2020	45	100	0.9998	0.0698	99	7	7	0
2021	90	100	0.9999	0.1411	98	14	14	0
2022	135	100	0.9994	0.2106	97	21	21	0
2023	180	100	0.9999	0.0000	99	0	0	0
2024	225	100	0.9994	-0.2106	97	-21	-21	0
2025	270	100	0.9998	-0.0698	99	-7	-7	0
2026	315	100	0.9999	-0.1411	98	-14	-14	0
2027	360	100	1.0000	0.0000	100	0	0	0

Sta.	Bear.	Dist	Cos	Sin	N	S	E	W
²⁴ 25+50 $\frac{86}{T_1}$					2135.82	2234.22	157.44	141.68
44 45+35 $\frac{10}{T_2}$	N74°20.8 E	1984.24	2682.96	291	535.39	3627.61	1910.64	2671.21
55 56+41 $\frac{50}{T_3}$	N53°10.8 E	1106.4	59931.80052		663.08		885.70	2636.98
65 66+47 $\frac{9}{T_3}$	N72°42' E	1006.4	92254.38591		928.44		388.38	3025.28
74 75+26 $\frac{4}{T_4}$	N62°03.1' W	878.5	46867.88337		411.73		776.04	3025.28
					4772.86		2267.00	776.03
					4674.46		3523.94	

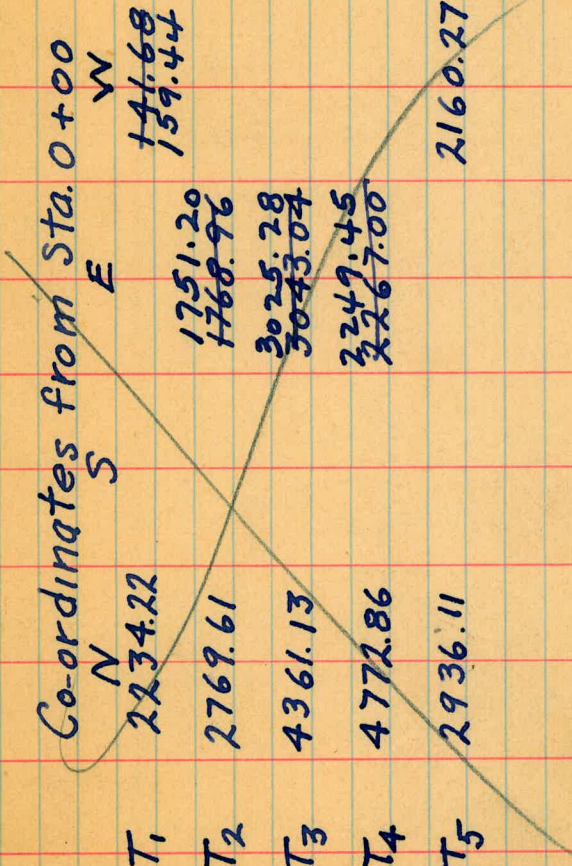
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Co-ordinates from Sta. 0+00

	N	S	E	W
T ₁	2234.22			141.68
T ₂	2769.61		1751.20	159.44
T ₃	4361.13		1768.96	
T ₄	4772.86		3025.28	
T ₅	2936.11		3043.04	
			2249.45	
			2267.00	
				2160.27



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825.03 916.90

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2422.10
~~2520.50~~

S.E. Cor. Sec. 25

North West

Quarter Cor. on Dam-Site - South 213.20 West 929.67

S.E. Cor. Sec. 36

South 2859.80 West 933.51

TRADE MARK

68

Handwritten notes on a piece of lined paper with a red margin line. The text is written in blue ink and appears to be a list or a set of instructions. The paper has three binder holes on the right side.

Handwritten text (top to bottom):

- Handwritten text (top)
- Handwritten text (middle)
- Handwritten text (bottom)

Sta. Bearing Dist. Cos. Sin N. S. E W

T3

426273 3025.28

70+31.9

179.97 339.7+339.21

~~66.286.30.~~

70+37.7

5.18 2.64

C.G. Sec. 30

N. 4437.52 E. 2683.43

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Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
T ₃	(66 + 47.9)				436.13		3043.04	
70 + 31.9 (Cor.)	N 62° 03' 1" W	384.0	46867.88337	179.97			339.21	
From 0	S 27° 03' 1" W	5.8	89060.45400					
70 + 37.7						5.17	2.64	
From 0 + 00						4535.93	2701.19	

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17

Coordinates of Control Points

N

W

T₁ 2135.82 ✓
 T₂ 2671.21 ✓
 T₃ 4262.73 ✓
 T₄ 4674.46 ✓
 T₅ 2837.71 ✓
 2877.23

159.44 ✓
 1751.20 ✓
 3025.28 ✓
 2249.25 ✓
 2178.03 ✓
 2269.90

STUDY LISTING FOR 2011/2012

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APR21 18.2015 1

APR21 18.2015 1

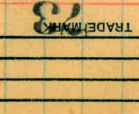
APR21 18.2015 1

APR21 18.2015 1

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Sta.	Bearing	Dist.	Cos	Sin	N	S	E	W
16+15 <u>81</u>					477.38	191.93		1330.85
17+63 <u>71</u>	S58°00' W	147.90	52992.84805		78.38		125.43	
20+17 <u>64</u>	S53°22.5' W	253.98	59657.80255		151.52		203.83	
23+00 <u>16</u>	S73°19.7' W	282.47	28688.95797		81.03		270.60	
24+11 <u>24</u>	S80°38.1' W	111.08	16272.98672		18.07		109.60	
29+30 <u>49</u>	N50°27.6' W	519.25	63662.77118	330.56			400.44	
30+45 <u>91</u>	N46°20.8' W	115.42	69021.72353	79.66			83.51	
				887.60	520.93		2524.26	

	Bearing	Dist	Cos	Sin	N	S	E	W
Sta. 0+00	S77°05' W	715.70	22353.97470			159.98		697.59
7+15 <u>2</u>	N23°31.5' W	163.43	91690.39915		149.85		65.23	
8+79 <u>13</u>	N12°45.5' W	102.30	97531.22084		99.77		22.59	
9+81 <u>43</u>	N22°28' W	99.63	92410.38215		92.07		38.07	
10+81 <u>26</u>	N70°27.5' W	405.65	33449.94240		135.69		382.28	
14+86 <u>21</u>	S75°40.3' W	129.10	24748.96891		31.95		125.09	
16+15 <u>81</u>					477.38		1330.85	



Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
30+45 ⁹¹	S 79° 03' 4" W	69.49	.18980	.98181	887.60	520.93		2524.26
31+15 ⁴⁰	N 48° 53' 8" W	273.35	.66242	.75352		13.19		68.23
33+88 ⁷⁵	N 56° 04' 2" W	99.53	.55818	.82972	179.71			205.97
34+88 ²⁸	S 85° 54' 3" W	81.79	.07141	.99745	55.56			82.58
35+70 ⁰⁷	S 53° 36' 1" W	78.86	.59340	.80491		5.84		61.58
36+48 ⁹³					112.87	46.80		63.48
						586.76		3026.10

Sta.	Bearing	Dist.	Cos. Sin	N	S	E	W
36+48 ⁹³				1122.87	586.76		3026.10
37+51 ³⁰	N 50° 12.9' W	102.37	63991.76845	65.51			78.67
38+42 ³⁸	N 14° 29.3' W	91.08	96820.25018	88.18			22.79
39+67 ⁷⁵	N 43° 37.8' W	125.37	72381.69000	90.74			86.51
40+85 ¹⁰	N 65° 49.4' W	117.35	41008.91205	48.12			107.03
42+95 ⁷²	N 72° 38.3' W	210.62	29841.95444	62.85			201.02
43+88 ⁴¹	N 71° 34.8' W	92.69	31598.94876	29.29			87.94
				1507.56			361006

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
52 + 11 <u>17</u>					1722.07	645.00	631.58	3649.06
53 + 72 <u>59</u>	S 67° 47' 0" E	161.42	37811	.92576		61.03	149.44	
54 + 35 <u>49</u>	S 77° 44' 9" E	162.90	21221	1.97722		34.57	159.19	
59 + 10 <u>16</u>	N 89° 29' 3" E	474.67	00893	.99996	4.24		474.65	
61 + 06 <u>94</u>	N 77° 08' 6" E	106.78	12251	.97493	43.79		191.85	
62 + 77 <u>84</u>	N 63° 26' 1" E	170.90	44721	1.89442	76.43		152.86	
63 + 59 <u>33</u>	N 41° 19' 1" E	81.49	75105	1.66024	61.20		53.80	
					1907.73	140.60		

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
63+59.33	N19°24.3'E	153.57	94.319	33.224	1907.73	740.60	1177.37 1877.37	3649.06
65+12.90	N12°11.9'W	120.35	9774321129				51.02	25.43
66+33.25	N50°26.4'W	83.90	6368977096				64.68	
67+17.15	N69°31.9'W	124.10	3496993687				116.27	1526.45
68+41.25	N70°04.3'W	126.48	3408594012				118.91	1987.05
69+67.73	N62°20.2'W	243.32	4642888569				215.57	
72+11.05							1868.39	4189.86
							242.313	



Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
72+11 <u>05</u>	N52°05'0"E							
75+04 <u>05</u>	N46°02'0"E	203.00	70031	71984				
76+21 <u>36</u>	N38°08'8"E	117.31	.78644	.61767	205.19	209.16		
77+32 <u>21</u>	N19°50'0"W	110.85	.94068	.33929	92.26	72.46		
78+13 <u>65</u>	N39°02'0"W	81.44	.77678	.62977	10427		37.61	
78+87 <u>72</u>	N62°02'0"W	74.07	.58996	.88322	63.26		51.29	
80+70 <u>62</u>	N82°51'8"W	182.90	.12424	.99225	34.74		65.42	
					22.72			181.48

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
72+11 <u>05</u>	N 52° 57.0' E	293.00	602.51	798.11	242.313	1868.39	4189.86	
75+04 <u>05</u>	N 45° 32.9' E	117.31	70031.71	384	176.54	233.85		
76+71 <u>36</u>	N 12° 25.9' W	110.85	97656.21	52.7	82.15	83.74		
77+32 <u>21</u>	N 31° 32.9' W	81.44	85143.52	445	108.25	23.86		
78+13 <u>65</u>	N 55° 37.9' W	74.07	56451.82	542	69.34	42.71		
78+87 <u>12</u>	N 76° 27.7' W	182.90	23409.97	228	41.81	61.14		
80+70 <u>62</u>					42.82	177.83		

2185.98 4495.46

2944.04

Sta.	Bearing	Dist.	Cos	Sin	N	S	E	W
80 + 70 <u>62</u>					2944.04	740.60		4495.40
81 + 73 <u>00</u>	N 31° 20' 11" W	102.38	85414.52	2004	87.45			53.24
82 + 66 <u>80</u>	N 50° 15' 3" W	93.80	63937.76	890	59.97			72.12
83 + 50 <u>37</u>	S 66° 06' 7" W	83.57	40496.91	433		33.84		76.41
84 + 71 <u>56</u>	S 42° 03' 7" W	121.19	94250.66	984		89.98		81.18
86 + 33 <u>63</u>	S 84° 17' 5" W	172.07	09947.99	505		14.22		171.22
87 + 89 <u>19</u>	N 39° 54' 0" W	145.56	76717.64	445	111.67			93.37

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N. 74° 25.2' W 63.89 2685896326

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S. A. 8° 07' W 114.89 6676274451

90+81 09

S. 26° 08' W 113.82 8977744046

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92+39 98

S. 57° 28.1' W 158.89 5377484310

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93+51 69

N. 72° 17.4' W 111.71 3042095261

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94+32 33

S. 72° 54.7' W 80.64 29384 95585

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95+56 55

S. 36° 18.6' W 124.22 8058359215

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	003	Sig	N.	S.	E.	W.
95+56 55			22.54.91	12.69.20		5630.65
96+86 73	✓	5.27° 59.7' W 130.388829946939		✓	115.12	✓
98+35 84	✓	N. 78° 02.5' W 148.912072097830	30.85	✓		✓
98+90 53	✓	N. 89° 32' W 54.750081499997	0.45	✓		54.75
101+09 83	✓	N. 74° 52.2' W 219.242610196534	57.22	✓		211.64
102+59 21	✓	N. 53° 51.7' W 149.385897480760	88.10	✓		120.64
			3430.89	✓	1384.32	6224.56



Sta.	Bearing	Dist	Cos Sin	N	S	E	W
102+59 21	N 12° 10.8' E	77.45	9.7749, 2.1098	34.30.89	1384.32	2185.98	6224.56
103+36 66	N 14° 34.7' W	201.90	96780.25171	75.71		16.34	
105+38 56	N 31° 37.5' W	117.78	85149.52435	195.40			50.82
106+56 34	N 43° 31.3' W	124.63	72511.68863	100.29			61.76
107+80 97	N 71° 36.5' W	202.24	31551.94892	90.37			85.82
109+83 21	S 78° 11.9' W	96.60	20453.97886	63.81			191.91
110+79 81				3956.47	19.76	1404.08	94.56
						2202.32	6709.43

Sta	Bearing	Dist	Cos	Sin	N	S	E	W
110+79 ⁸¹					3956.47		2202.32	6709.43
113+59 ⁶¹	N63°19'1" W	279.80	44903.89	351	125.64		250.00	
115+36 ⁷¹	N42°11'1" W	177.18	74098.67	153	131.29		118.98	
116+14 ¹⁷	N29°27'1" E	77.38	87077.49	169	67.38		38.05	
120+10 ⁰¹	N6°57'9" W	395.84	99262.12	126	392.92		48.00	
122+99 ⁹⁸	N49°53'0" E	289.97	64435.76	473	186.84		221.75	
123+75 ⁴⁶	N29°54'5" E	75.48	6682.49	861	65.43		37.64	
					4925.97	1404.08	2499.76	7126.41

Sta Bearing Dist Cos Sin N S E W

123+7546

N26°22.7' W 250.7289588 44429

492.597 1404.08 2499.76 7126.41

126+2618

N32°37.5' W 271.8884212 53914

224.62

111.39

128+9806

N9°21.0' E 46.9398671 16246

228.96

146.58

129+4499

N13°12.8' W 157.5397352 22857

46.31

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130+9652

N1°51.2' W 218.5799948 03234

147.52

34.64

133+1589

N46°42.0' W 34.0368582 72777

218.46

7.07

133+4912

23.34

24.77

2507.38 7450.86

80

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
133+49 <u>12</u>					581.518	1404.08	2507.98	7450.86
134+15 <u>13</u>	N35°08'6" W	66.01	81772	.57562	53.98			38.00
135+90 <u>36</u>	N41°11'4" W	175.23	75253	.65856	131.87			115.40
136+17 <u>06</u>	N1°22'6" E	26.70	99971	.02402	26.69		0.64	
137+63 <u>73</u>	N20°19'9" W	146.67	93703	.4745	137.53			50.96
138+77 <u>73</u>	N20°26'1" W	114.00	93707	.34915	106.83			39.80
139+37 <u>76</u>	N39°01'3" W	60.03	77691	.62692	46.64			37.80 37.63

Sta. "A" TRAVERSE N S E W
 Bearing Dist Cos Sin

141 + 32.33 (= 100)	N 77° 00' W	276.15	22470	97443	62.05	6517.25	1404.08	2554.98	7734.19
2 + 76.15	N 82° 08' W	74.14	13661	99063	10.13				269.09
3 + 50.7	N 88° 24' W	112.90	02766	99962	3.12				73.95
4 + 63.19	N 72° 30' W	159.30	30046	95379	47.86				112.86
5 + 22.49									151.94

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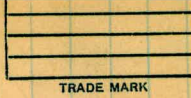
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Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
139+37 76	N 7° 57' 9" E	194.57	.99035	.13857	6318.72	1404.108	2508.02	7752.82
141+32 33	S 80° 33' 3" E	246.48	.16410	.98645	192.69		26.96	
143+78 81	S 3° 04' 2" W	96.20	.99857	.05356		40.45	243.14	
144+75 01	S 20° 05' 7" E	134.91	.93912	.34358		96.06		5.15
146+09 92	S 37° 30' 9" E	135.00	.79320	.60897		126.70	46.35	
147+44 92	S 67° 32' 4" E	64.32	.38204	.92414		107.08	82.21	
148+09 24					6511.41	1798.94	2966.12	7737.97

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
148+09 <u>24</u>	S27°32'6"E	137.30	88666	46242	6511.41	1798.94	2966.12	
149+46 <u>54</u>	S46°23'8"E	88.98	68966	72413		121.74	63.49	
150+35 <u>52</u>	S46°23'8"E	88.98	68966	72413		61.37	64.43	
151+66 <u>82</u>	S22°08'8"E	131.30	92622	37698		121.61	49.50	
152+17 <u>12</u>	S48°29'8"E	50.30	66266	74892		33.33	37.67	
153+80 <u>96</u>	S30°19'3"E	163.84	86321	50486		141.43	82.72	
155+94 <u>01</u>	S36°09'2"E	213.05	80744	58995		172.02	125.69	

STA Bearing Dist Cos Sin N S E W

155 + 94.01	S 45° 25' E	117.11	70193	71225	2450.44	3389.62	7737.97
157 + 1112	S 39° 32' E	117.70	77121	63657	82.20	83.41	
158 + 28.82	S 36° 03' E	116.48	80847	58854	90.77	74.92	
159 + 95.49	S 48° 34' E	50.19	66162	74984	94.17	68.55	
160 + 50.44	S 85° 32' E	54.95	07782	99697	33.20	37.63	
163 + 23.89	S 71° 34' E	273.45	31620	94869	4.28	54.78	
					6511.41	7841.52	2968.33
							7737.97



Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
163 + 23 ⁸⁹	S 25° 52' 18" E	95.85	.89971	.43649		2841.52	396.833	
164 + 19 ⁷⁴	S 43° 21' 8" E	61.40	.72701	.68662		86.24	41.84	
164 + 81 ¹⁴	S 65° 40' 0" E	70.58	.41204	.91116		44.64	42.16	
165 + 51 ⁷²	S 84° 36' 7" E	107.14	.09391	.99558		29.08	64.31	
166 + 58 ⁸⁶	S 70° 11' 7" E	252.03	.33882	.94085		10.06	106.67	
169 + 10 ⁸⁹					6511.41	3096.93	237.12	4460.43

Control #4 observed from Sta. 169+10 ⁸⁹ Bearing N. 77° 07' 3" E
 Computed. N. 77° 09' 2" E

Sta. Bearing Dist Cos Sin N S E W

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W	
169+10	89	N6°10.8'E	54.64	99419	10765		5.88		
169+65	53	N9°25.4'W	116.37	98650	16373	54.32		19.05	
170+81	90	N20°51.5'W	147.48	93446	35606	114.80		52.51	
172+29	38	N19°38.1'W	191.76	94185	33603	137.81		64.44	
174+21	14	N25°33.3'W	175.77	90217	43138	180.61		75.87	
175+96	91	N20°27.0'W	152.64	93698	34939	158.57		64.41	
177+49	55					143.07		53.33	
						7300.54	3096.93	4466.31	8003.12

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
177+49 ⁵⁵					730.54	3076.98	4466.21	8003.17
178+44 ³⁰	N30°24'2" W	94.75	86248	50608	81.72		47.95	
179+28 ⁶²	N46°48'2" W	84.32	68451	72901	57.72		61.47	
180+79 ⁸⁷	N10°33'4" W	151.25	98308	18321	148.69		27.71	
181+62 ⁹⁸	N25°46'2" W	83.11	90055	43476	74.04		36.13	
183+89 ²⁸	N32°35'7" W	226.30	84250	53870	190.66		121.98	
184+62 ⁸²	N38°41'2" W	73.54	78057	62506	57.40		45.97	

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
184+62 <u>82</u>	N75°22.7'W	141.04	25243	96762	35.60		444.31	8344.76
186+03 <u>86</u>	S77°20.8'W	38.04	21905	97572		8.33		13647
186+41. <u>90</u>	N25°25.0'W	246.55	90321	42920	222.69			37.12
188+88 <u>45</u>	N32°37.0'W	184.41	84230	53902	155.33			105.82
190+72 <u>86</u>	N1°58.8'W	93.78	99940	03455	93.72			99.40
191+66 <u>64</u>	N2°19.0'W	214.23	99918	04042	274.01			3.24
194+40 <u>87</u>								11.08

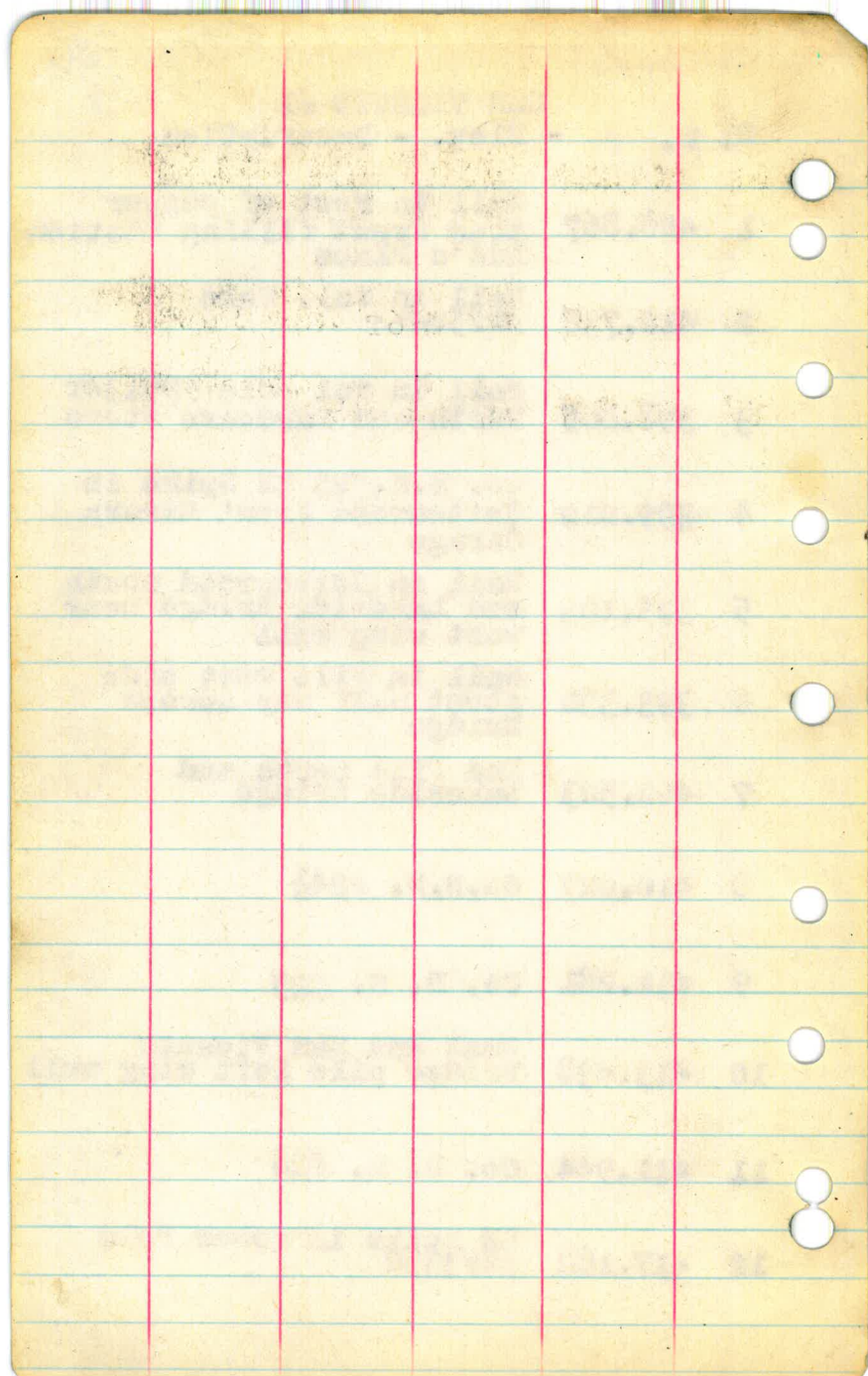
8737.39

8692.94 3105.26

Sta.	Bearing	Dist	Cos	Sin	N	S	E	W
194 + 4087					86.92.72	210.5.26	4466.31	8737.39
194 + 8727	N14°36.8'W	46.40	96765	25229	44.90			11.71
195 + 5824	N20°27.0'W	70.97	93698	34939	66.50			24.80
198 + 2124	N16°51.5'W	263.00	95703	29001	251.70			76.27
199 + 9144	N40°06.7'E	170.20	76479	64428	130.17		109.66	
201 + 1140	N46°05.9'E	119.96	69342	72053	83.18		86.43	
202 + 9460	N12°16.7'E	183.20	97713	21266	179.01		38.96	

SAN VICENTE #1

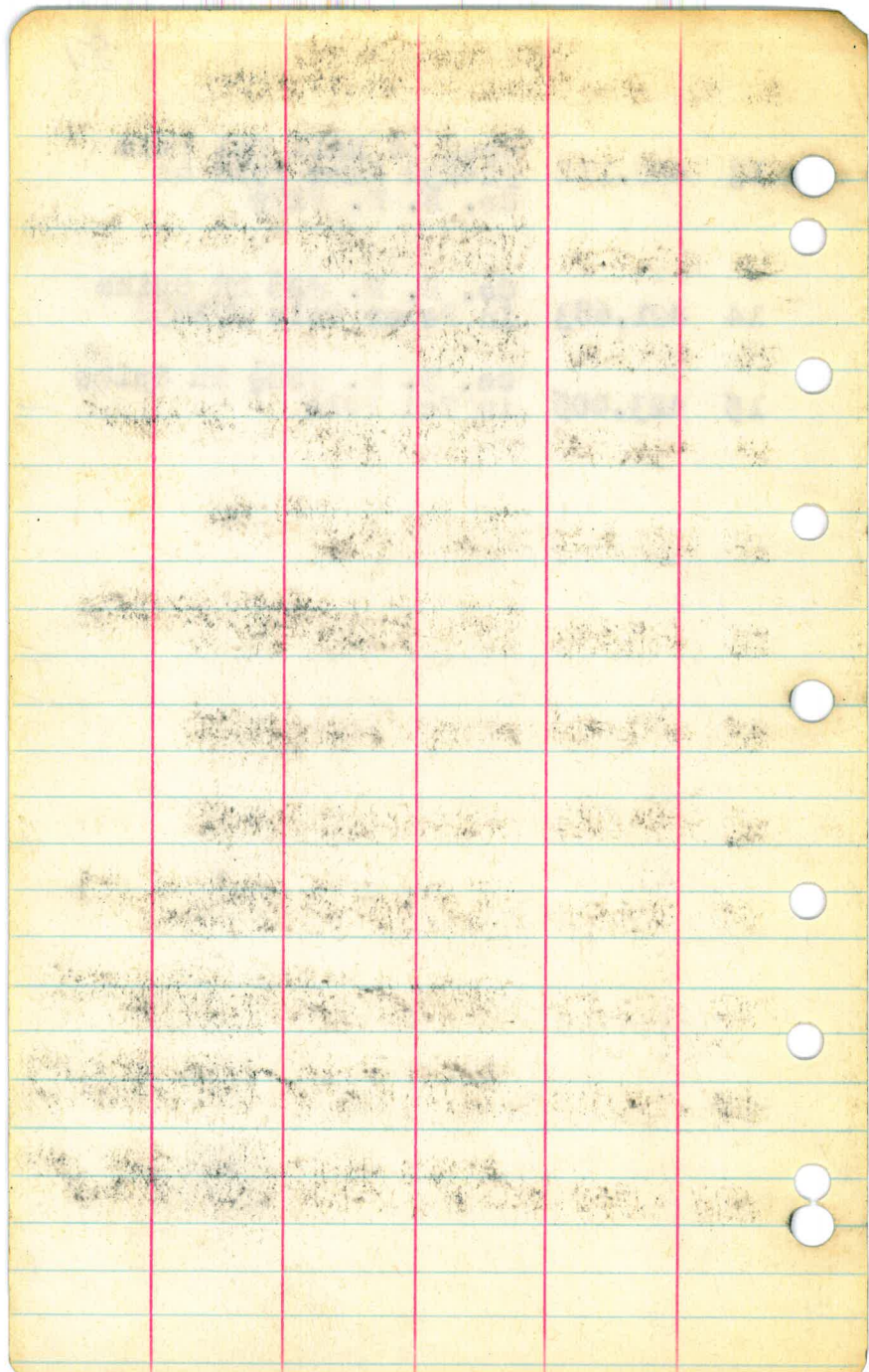
B. M. #	Elev.	Description
1 408.867		Nail in root of pepper tree front filling Station Ed's Place
2 410.735		Nail in Tel. Pole #D25046T
3 398.805		Nail in Tel pole #D9134T North end Hardware store
4 399.212		Co. B.M. #23 RR Spike in Cottonwood front Einers Garage
5 395.193		Nail in Cottonwood south end Lakeside Bridge near west wing wall
6 393.350		Nail in Pile west side about half way across bridge
7 402.523		End Pile north end Lakeside Bridge
8 410.027		Co. B.M. #24 1/2
9 411.281		Co. B. M. #25
10 413.438		West end San Vicente bridge pile left wing wall
11 411.944		Co. B. M. #26
12 417.182		RR Spike in Power Pole #H73350



13 420.112 Head of Bolt Tel Pole
#24232 Same Pole as
Co. B. M. #27½

14 421.683 Co. B. M. #26 RR Spike
in Power Pole #72858

15 423.005 Co. B. M. #26½ RR Spike
in Tel Pole



B. M. # - Elev. - Description

16	428.315	Co. B. M. #29 RR Spike in Power Pole #72866
17	429.526	2x2 Hub with Nail on Power Pole #73977
18	432.646	Nail in Power Pole #73982
19	436.696	Co. B. M. #30 $\frac{1}{2}$ on Power Pole #73985
20	437.954	Co. B. M. #31 on Pole #72982
21	443.609	Tel Pole #72907 at turn of Pavement 20' L
22	450.286	Power Pole #73997
23	451.488	Power Pole #24281
24	453.056	RR Spike in root of oak tree 25' R Pavement
25	463.192	Spike in Fence Post left of road near sand pit
27	476.826	Point on concrete culvert near axis of dam 3' R road
27 $\frac{1}{2}$	475.109	High Point large rock 15' L Road near axis of Dam

