

SAN PASQUAL
LEVELS

EASTS

LEVEL BOOK

No. 330

W217



Book # 217

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B.M's #8, 9, 10

page 12

Well Levels page

page 29



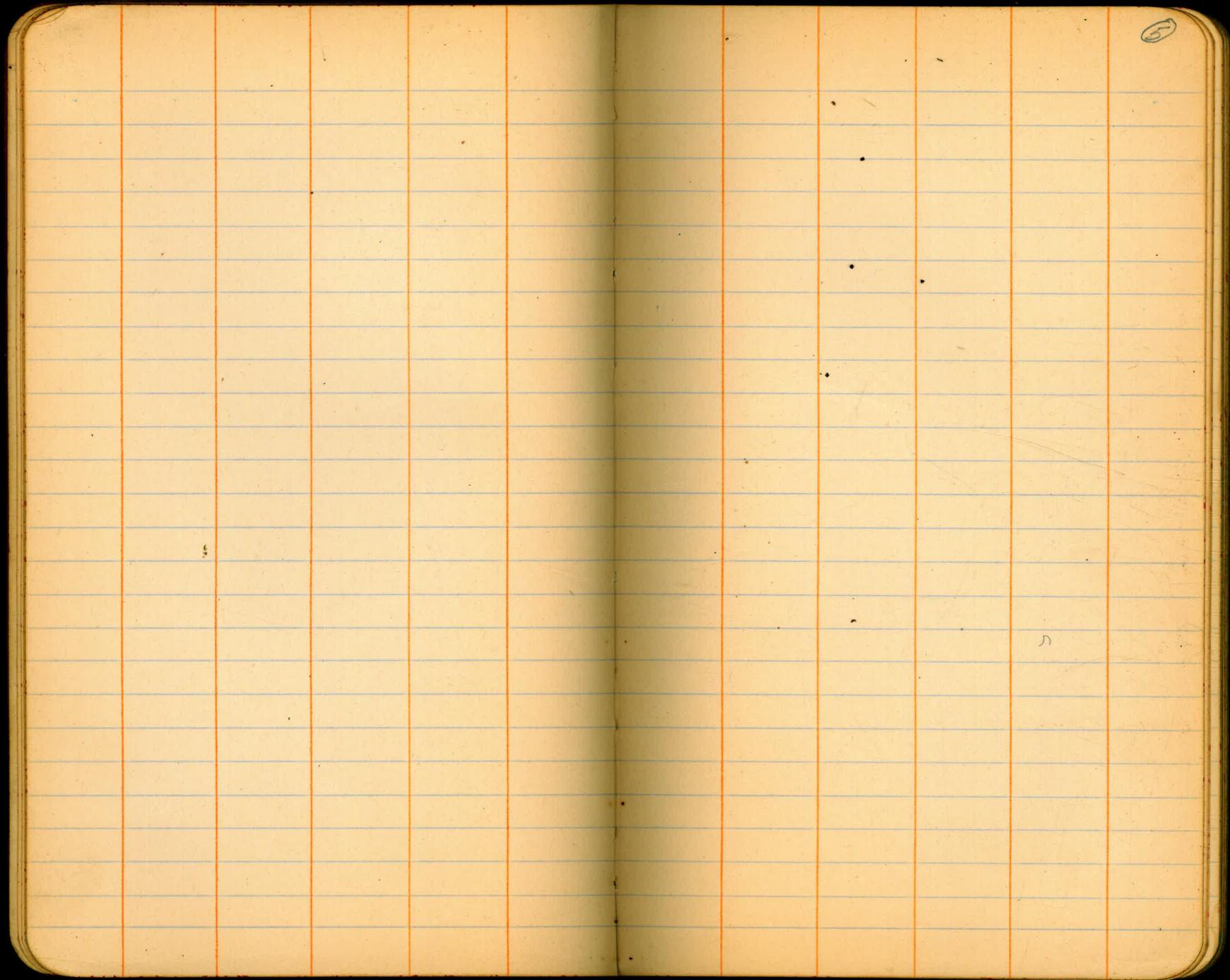
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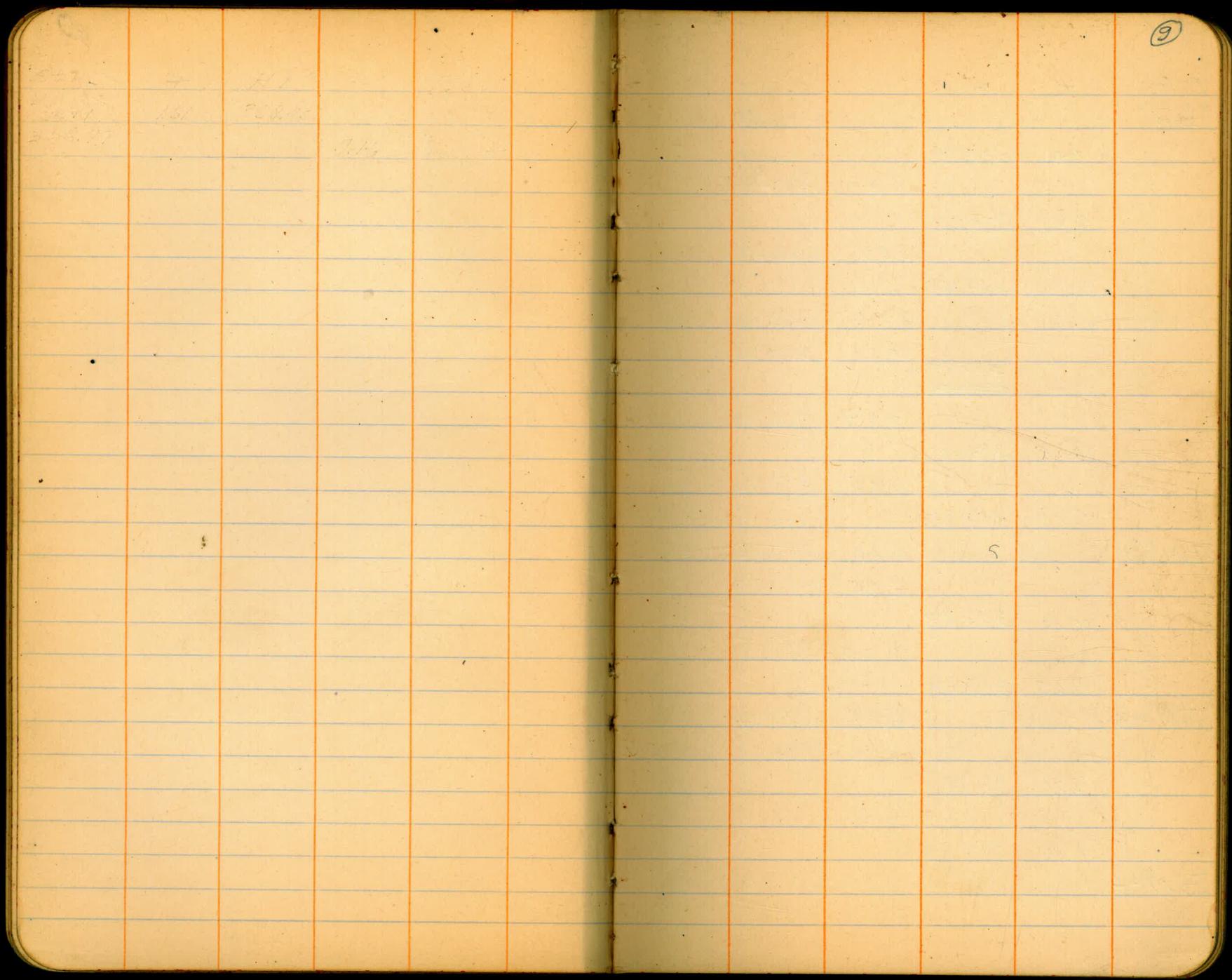
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6

366 17 3M



9

5

STA. U.S. & S. B.M.	+	HI	-	Elev.
	1.61	368.40		366.79
			7.16	361.24
	4.99	366.23		
			3.84	362.39
	7.49	369.88		
BM #1			2.77	367.11
			4.93	364.95
	4.89	369.84 369.84		
			4.94	364.90
	9.25	374.15		
			1.65	372.50
	5.73	378.23		
BM #2			4.93	373.30
			4.26	373.97
	10.10	384.07		
			0.29	383.78
	9.65	393.43		
BM #3			5.42	388.01
			11.26	382.17
	9.71	391.88		
			8.10	383.78
	4.66	388.44		
BM #4			3.28	385.16
			6.93	381.51

J.C. Bliss T (10)
 J.G. Andrews Rec.
 MATTEON &
 LUNDY &

These levels were run East along county Road.
 Except 8-9-10 which run West & S.

NAIL IN Bottom of Power Pole # 11635 (18)

NAIL IN Bottom of Power Pole # 11637 (19)

NAIL IN Bottom of Telegraph Pole, FIRST Pole
 East of Teleg. Pole # $\frac{5}{30}$, AND IN ANGLE
 Point of County Road

NAIL IN Bottom of Telegraph Pole # $\frac{5}{42}$
 $\frac{2}{2}$

STA	+	HI	-	Elev
				381.51
	5.17	386.68		
			1.18	385.50
	8.91	394.41		
BM #5			3.89	390.52
	4.93		7.27	387.14
	6.93	394.07		
			3.81	390.26
	5.53	395.79		
			4.41	391.38
	10.19	401.57		
BM #6			3.64	397.93
			7.24	394.33
	1.57	395.90		
			3.23	392.67
	6.01	398.68		
			0.58	398.10
	11.74	409.84		
BM #7			0.74	409.10
				366.79
U.S.G.S. B.M.	3.38	370.17		
			8.92	361.25
	1.76	363.01		
			8.28	354.73

(11)

Cross in Top of first Rock Westside of Entrance to
SAN PASQUAL BATTLE Grounds

Nail in Bottom of Telegraph Pole, First one
East of Pole # $\frac{18}{5}$

Concrete Base Flag Pole in Front of
SAN PASQUAL Union School

STA	+	H I	-	Elev
				354.73
	5.11	359.84		
			0.52	359.32
	4.65	363.97		
BM#8			1.63	362.34
			9.18	354.79
	4.68	359.47		
			5.96	353.51
	5.46	358.97		
BM#9			4.38	354.59
			2.63	356.34
	5.43	361.77		
			7.54	354.23
	4.84	359.07		
			1.60	357.47
	1.37	358.84		
BM#10			8.78	350.06
T.P.				357.47
	1.06	358.53		
			3.83	354.70
	6.15	360.85		
			4.39	356.46
	2.16	358.62		

Nail in Bottom of Power Pole #11629 (18)

Nail in Bottom of Anchor Pole on SE Side of Intersection of San Pasqual & X Road (to Hodges Lake & Escondido)

Nail in Bottom of Anchor Pole on E Side of X Road and about 200 ft. S. of Well # 12

STA	+	HI	-	Elev
		358.62		
ok. on BM#9			4.00	354.62
			5.61	353.01
	5.82	358.83		
			4.08	354.75
	7.39	362.14		
			4.00	358.14
	1.36	359.50		
			2.57	356.93
	9.41	366.34		
			3.63	362.71
	6.94	369.65		
ok. on U.S. B.S. BM.			2.82	366.83 -
BM#7				409.10
	3.99	413.09		
			4.96	408.13
	9.48	417.61		
			12.73	404.88
	1.65	406.53		
ok. on BM#6			8.61	397.92
	0.69	398.61		
			8.16	390.45
	5.44	395.89		
			6.33	389.56

Correct elev. B.M. 366.79

STA.	+	Hi	-	Elev.
				389.56
	4.95	394.51		
			9.58	384.93
	9.90	394.83		
			9.38	385.45
	1.62	387.07		
			5.60	381.47
	5.04	386.51		
			2.74	383.77
	6.94	390.71		
			7.48	383.23
	10.79	394.02		
			11.86	382.16
	.64	382.80		
			9.80	373.00
	4.73	377.73		
			8.30	369.43
	0.63	370.06		
			4.84	365.22
	4.38	369.60		
			5.35	364.25
	1.73	365.98		
			4.90	361.08
	7.64	368.72		
			1.93	366.79

chk. by
U.S. G.S.
B.M.

Elev. 366.79

Sta	+ H.I.	-	Elev
B.M.#7	2.52	411.62	409.10
	4.76	409.46	404.70
	8.16	407.48 407.50	399.32
B.M.#11	6.41	407.39	400.98
	7.56	414.88	407.32
	5.03	414.50	409.54
	8.02	418.03	410.01
	4.56	422.14	417.58
B.M.#12	1.40	421.48	420.08
	12.12	431.06	418.94
	4.47	435.05	430.58
	0.30	425.23	427.93
	6.78	428.03	421.25

Cross in concrete base flag-pole at San Pasqual School

Spike in Telephone Pole # $\frac{7}{4}$ on $\frac{8}{8}$ N. side of W. San Pasqual Road

Spike in bottom of Power Pole # 14279 N. side of San Pasqual Road

14287-1923

Sta	+ H.I.	-	Elev.
	428.03		
		3.86	424.17
5.35	429.52		
B.M.#13		4.42	425.10
		3.45	426.07
8.15	434.22		
B.M.#14		2.61	431.61
		3.74	428.48
4.06	432.54		
		2.40	430.14
4.68	434.82		
		2.94	431.88
7.06	438.94		
		1.75	437.19
5.51	442.70		
B.M.#15		4.26	438.44
		4.08	438.62
4.01	442.63		
B.M.#16		4.32	438.31
1.82	440.13		
		3.99	436.14
7.54	443.68		
		6.08	437.60
6.10	443.70		
B.M.#17		2.32	441.38

42510
42259
251

Hub on south side of San Pasqual Road about 250 N of Power Pole #14287

Point Granite Rock N.E. Wing-wall of bridge crossing Quejito Creek on W. San Pasqual Road

Bolt-head at West side of North end of San Dieguito River Bridge

Bolt-head at West side of South end of San Dieguito River Bridge

Spike in S.D.G. & E.C. Power Pole #11,916 on North Side of W. San Pasqual Road

Sta.	+ H.I.	-	Elev.
	443.70		
		2.57	441.13
5.75	446.88		
		3.41	443.47
6.94	450.41		
		2.63	447.78
5.05	452.83		
		1.82	451.01
4.92	455.93		
B.M.#18		4.96	450.97
		3.10	452.83
5.67	458.50		
		3.74	454.76
4.40	459.16		
B.M.#19		2.54	456.62
T.P.			454.76
4.25	459.01		
		6.25	452.76
2.39	455.15		
		0.48	454.67
4.10	458.77		
		9.05	449.72
9.85	459.57		
		0.13	459.44
8.73	468.17		

Spike in bottom of S.D.G. & E. Power Pole #11922 at fork in San Pasqual Road about 3/4 mile from foot of San Pasqual Grade

Mark chiseled in granite boulder on south side of San Pasqual Road under large live oak tree, about one half mile from foot of San Pasqual Grade

Sta	+	H.I.	-	Elev
		468.17		
B.M. 20			2.47	465.70
			9.58	458.59
0.18	458.77			
			10.28	448.49
0.84	449.33			
			9.23	440.10
1.39	441.49			
			6.59	434.90
3.28	438.18			
			5.57	432.61
4.76	437.37			
B.M. 21			4.09	433.28
			3.26	434.11
11.81	445.92			
			7.98	437.94
0.04	437.98			
			9.41	428.57
4.14	432.71			
			5.73	426.98
1.46	428.44			
B.M. 22			4.78	423.66

Spike in bottom of Telephone Pole
 # $\frac{9}{10}$ in turn of Road on S. side of San
 Pasqual Valley, near gray wooden school
 house

Spike in S.D.G. & E. Co. Power Pole # 11902
 at Road Intersection about 1/4 Mile
 South of San Dieguito River Bridge

Spike in S.D.G. & E. Co. Power Pole # 11894 on
 E. San Pasqual Road

Sta	+	H.L.	-	Elev
B.M 22				423.66
	3.30	426.96		
			6.16	420.80
	3.44	424.24		
			9.91	414.33
	3.12	417.45		
			4.68	412.77
	4.25	417.02		
			4.66	412.36
	3.49	415.85		
			4.44	411.41
	6.13	417.54		
			8.50	409.04
	6.40	415.44		
			6.31	409.13
	0.65	409.78		
			1.77	408.01
	8.26	416.27		
			4.22	412.05
	4.83	416.88		
			8.87	408.01
	1.10	409.11		
			5.97	403.14
			7.75	401.36
	8.90	410.26		

6-21-27
Bliss-Inst. (19)
Lundy
Mattoon

U.S. 95 B.M. near old adobe school house on
E. San Pasqual Road Recorded Elev 410.636

Sta	+	H.I.	-	Elev
		410.26		
			9.91	400.35
	9.28	409.63		
			3.34	406.29
	8.53	414.82		
B.M. 7			3.61	411.21
<hr/>				
B.M. 16				438.31
	1.98	440.29		
			6.14	434.15
	5.26	439.41		
			6.98	432.43
	4.63	437.06		
			5.54	431.52
	4.81	436.33		
			2.90	433.43
	4.41	437.84		
			4.43	437.41
	9.39	446.80		
			12.38	434.42
	1.44	435.86		
			7.23	428.63
	4.50	433.13		
			7.02	426.11
	2.45	428.56		

Check on B.M. #7 of checked elev. of 409.10

Sta	+	H.I.	-	Elev.
		428.56		
			4.67	423.89
BM 22				423.66
	3.33	426.99		
			6.15	420.84
U.S.G.S. B.M.				410.64
	4.26	414.90		
			4.85	410.05
	4.31	414.36		
			4.23	410.13
	3.41	413.54		
			5.46	408.08
	1.75	409.85		
			6.03	403.82
	3.88	407.70		
			6.31	401.39
	3.50	404.89		
			5.06	399.83
	2.92	402.75		
B.M.			1.65	401.10
			3.23	399.52
	7.82	407.34		
			8.60	398.74
	11.00	409.74		

Sta	+	H.I.	-	Elev
		409.74		
			5.17	404.57
B.M #7	8.99	413.56		
			4.36	409.20

Check on B.M at San Pasqual Union
School of Elev. 409.10

Sta	+	H.I.	-	Elev.
B.M. 7				409.15
	4.36	413.51		
			8.99	404.52
	5.17	409.69		
B.M. 11			8.64	401.05
	5.90	406.95		
			0.01	406.94
	7.93	414.87		
			4.87	410.00
	4.41	414.41		
			4.34	410.07
	10.21	420.28		
B.M. 12			0.16	420.12
			5.20	415.08
	4.45	419.53		
			0.11	419.42
	12.88	432.30		
			4.73	427.57
	3.89	431.46		
			12.81	418.65
	4.70	423.35		
			3.08	420.27
	5.98	426.25		
B.M. 13			3.66	422.59
	7.48	430.07		

B.M. at San Pasqual Union School

Spike in bottom of Telephone Pole # $\frac{7}{2}$ on N. side of W. San Pasqual Road about $\frac{1}{2}$ mile East of San Pasqual Union School

Spike in bottom of Power Pole # 14279 N. side of W. San Pasqual Road

Hub on S. side of W. San Pasqual Road about 250 N. of Power Pole # 14287

Sta.	+	H.I.	-	Elev	
		430.07			
B. M. 14			1.00	429.07	Point of Granite Rock N.E. Wing-wall of bridge Crossing Quejito Creek on W. San Pasqual Road
			3.56	426.51	
3.33	429.84		-		
			21.9	427.65	
4.61	432.26				
			3.00	429.26	
6.50	435.76				
			1.06	434.70	
5.74	440.44				
B. M. 15			4.51	435.93	Bolt-head at W. side of North end of San Dieguito River Bridge
			4.29	436.15	
	4.35	440.50			
B. M. 16			4.66	435.84	Bolt-head at W. side of South end of San Dieguito River Bridge.
			7.43	433.07	
6.70	439.77				
			4.29	435.48	
5.74	441.22				
B. M. 17			2.32	438.90	Spike in bottom of S.D. & E. Co. Power Pole # 11916 on North side of W. San Pasqual Road.
			2.42	438.80	
5.62	444.42				
			3.20	441.22	
6.15	447.37				
			3.00	444.37	
5.56	449.93				

Sta	+ H.I.	- Elev
	449.93	
		1.97
		447.96
	5.66	453.62
B.M. 18		5.08
		448.54
		3.33
		450.29
	4.85	455.14
		2.81
		452.33
	4.39	456.72
B.M. 19		2.55
		454.17
	2.73	456.90
		5.18
		451.72
	3.00	454.72
		6.03
		448.69
	9.65	458.34
		9.62
		448.72
	3.93	452.65
		0.10
		452.55
	13.14	465.69
B.M. 20		2.39
		463.30
		10.94
		454.75
	0.14	454.89
		10.16
		444.73
	1.57	446.30

Spike in bottom of S.D. G & E Co. Power Pole # 11922 at fork in San Pasqual Road about 1/2 mile from foot of San Pasqual Grade

Mark chiseled in Granite Boulder on South side of San Pasqual Road under large live oak tree, about 1/4 mile from foot of San Pasqual Grade.

Spike in bottom of Telephone Pole # $\frac{9}{15}$ in turn of E. San Pasqual Road near Gray Wooden School House

Sta	H.L.	-	Elev.
	446.30		
		10.13	436.17
2.27	438.44		
		6.85	431.59
4.08	435.67		
		5.31	430.36
5.14	435.50		
B.M. 21		4.46	431.04
		0.73	434.77
9.49	444.26		
		10.71	433.55
0.15	433.70		
		7.53	426.17
3.83	430.00		
		7.99	422.01
3.02	425.03		
B.M. 22		3.58	421.45
		6.40	418.63
1.49	420.12		
		8.31	411.81
3.56	415.37		
u.s.g.s. B.M.		4.77	410.60

Spike in S.D.G. & E. Co. Power Pole # 11,902 at road intersection about 1/4 mile south of San Miguelito River Bridge

Spike in S.D.G. & E. Co. Power Pole # 11,894 on E. San Pasqual Road.

Check on U.S.G.S. B.M. of Elev. 410.636. located on E. San Pasqual Road in front of old adobe school-house

Sta.	+	H.I.	-	Elev.
U.S. G.S. B.M.				410.64
	2.92	413.56		
			6.26	407.30
	6.44	413.74		
			0.26	413.48
	6.61	420.09		
			3.09	417.00
	5.68	422.68		
B.M. 23			5.34	417.34
			4.29	418.39
	9.68	428.07		
			12.34	415.73
	0.67	416.40		
			9.19	407.21
	0.94	408.15		
B.M. 24			6.42	401.73
	1.70	403.43		
			6.55	396.88
	2.25	399.13		
			6.37	392.76
	3.13	395.89		
Well # 39			0.65	395.24
			6.59	389.30
	3.44	392.71		
B.M. 25			3.90	388.81

Spike in anchor pole in big turn of East San Pasqual Road about 250 ft south of water tank on platform

Spike in S.D. G & E. Power Pole # 11651 on south side of East San Pasqual Road near west end of row of eucalyptus trees.

Well 39 on south side of East San Pasqual Road.

Spike in S.D. G & E Co. Power Pole # 11648 on south side of East San Pasqual Road about 1/4 east of Santa Maria creek.

Sta	T	H.I.	-	Elev
		392.71		
			4.19	388.52
Well 38	1.09	389.61		
			1.67	387.94
			2.94	386.67
	7.66	394.33		
			0.82	393.51
	3.23	396.74		
B.M. 26			12.61	384.13
	0.17	384.30		
Well 37			17.0	382.60
			4.61	379.69
	6.45	386.14		
Well 36			0.81	385.33
			4.09	382.05
	5.10	387.15		
Well 35			2.70	384.45
			4.17	382.98
	3.97	386.95		
Well 34			1.90	385.05
			4.68	382.27
	8.04	390.31		
			6.00	384.31
	7.92	392.23		
B.M. 5			1.69	390.55

Well #38 North side of East San Paqual Road

Spike in fence post on south bank of Santa Maria creek, West side of main road
Well #37 in Santa Maria Creek

Check on B.M. 5 of Elev. 390.55

Sta	+	H.I.	-	Elev
B.M. 5				390.52
	10.76	401.28		
Well 32			7.31	393.97
B.M. 5			10.76	390.52

MDElliott T (29)
 G. Bailey Rod
 6-29-27

Well Levels
 Berger Wye Level #15808 Adjusted 6-29-27

South curb

	+	H.I.	-	Elev.	Record
B.M.#10	5.50	355.56		350.06	350.06
Well #12			7.51	348.05	
	7.51	355.56			
B.M.#10			5.50	350.06	350.06
	2.02	352.08			
T.P.			6.01	346.07	
	9.83	355.90			
T.P.			3.69	352.21	
	8.80	361.01			
T.P.			2.81	358.20	
	3.49	361.69			
T.P.			12.77	348.92	
	4.24	353.16			
T.P.			7.40	345.76	
	2.46	348.22			
T.P.			6.21	342.01	
	3.47	345.48			
T.P.			4.83	340.65	
	3.44	344.09			
T.P.			4.53	339.56	
	3.85	343.41			
T.P.			6.01	337.40	

Description
 Nail in anchor pole E. Side Road to
 Bernardo 200' South of Well #12

	+	H.I.	-	Elev.
T.P.				337.40
	4.21	341.61		
Well #63			0.57	341.04
	0.57	341.61		
T.P.			4.21	337.40
	5.81	343.21		
T.P.			3.38	339.83
	4.86	344.69		
T.P.			3.88	340.81
	5.11	345.92		
T.P.			3.48	342.44
	5.36	347.80		
T.P.			2.79	345.01
	7.75	352.16		
T.P.			1.96	350.20
	11.75	361.95		
T.P.			6.45	355.50
	5.89	361.39		
T.P.			9.85	351.54
	1.91	353.45		
T.P.			6.42	347.03
	5.34	352.37		
Chk. B.M. #10			2.30	350.07
				Record 350.06

Well #63 El. established on nail in casing 1.5' above the ground. West side of wooden casing.

	+	H.I.	-	Elev.	
U.S.G.S. B.M.				366.79	
	0.82	367.61			
T.P. Well #6			5.65	361.96	T.P.
	2.35	364.31			
T.P.			2.82	359.49	
	4.98	359.47			
T.P.			1.67	357.80	
	4.84	362.64			
T.P. Well #14			0.30	362.34	
	0.30	362.64			
T.P.			6.57	356.07	
	3.12	359.19			
T.P.			5.53	353.66	
	3.78	357.44			
T.P. Well #13			4.70	352.74	
	4.70	357.44			
T.P.			6.60	350.84	
	5.39	356.23			
T.P.			3.65	352.58	
	5.36	357.94			
B T.P.			4.94	353.00	
	5.90	358.90			
T.P.			3.69	355.21	

Description

U.S.G.S. B.M. in farm yard N. side of road 1/2 mile east of intersection of west San Pasqual Road & San Bernardo Road

El. est. on Well #6 on East side of casing

El. Established on 2"x12" plank 2 1/2" above the ground. Blue keel arrow.

El. Established on S. side casing.

	S +	H.I.	-	Elev	Description
T.P.				355.21	
T.P.	4.71	359.92			
Well #2			2.35	357.57	El. established on casing
T.P.	2.67	360.24			
Well #3			1.48	358.76	El. established on casing
T.P.	2.33	361.09			
Well #4			5.02	356.07	El. established on casing
					Elliott & notes Bailey Rod 6-30-27
U.S.G.S. B.M.				366.79	
T.P.	2.45	369.24			
Well #15			4.37	364.67	El. established on 2" x 12" plank, part of well cover. Marked arrow blue keel.
T.P.	4.57	369.24			
U.S.G.S. B.M. T.P.			2.45	366.79	Record 366.79
T.P.	2.04	368.83			
T.P.			10.18	358.65	
	0.22	358.87			
Well #5			3.98	354.89	El. established on casing.
T.P.			3.11	355.76	T.P.
T.P.	3.11	358.87			
T.P.			4.32	354.55	
Z	2.44	356.99			
T.P. Staff Gage Wood Lake			6.33	350.66	El. established on 4.00' mark on staff gage, nailed to pump house.

	+	H.I.	-	Elev.
T.P. 5				350.66
	6.33	356.99		
T.P.			2.44	354.55
	3.28	357.83		
T.P.			3.99	353.94
	6.69	360.63		
T.P.			3.63	357.00
	5.10	362.10		
T.P. Chk Well #4			6.01	356.09
	5.53	361.60		<u>Record</u> 356.07
T.P.			3.86	357.74
	5.18	362.92		
T.P.			3.51	359.41
	4.80	364.21		
Box's Pond Staff Gage			5.20	359.01
	5.20	364.21		
T.P.			3.58	360.63
	6.44	367.07		
T.P.			3.12	363.95
	5.64	369.59		
T.P. Well #1			2.79	366.80
	2.79	369.59		
T.P.			5.64	363.95
	3.10	367.05		
T.P.			6.85	360.20

El. established on 1.00' mark on Staff Gage.

El. established on casing 10' west of old pump house.

	+	H.I.	-	Elev.
T.P				360.20
	3.70	363.90		
T.P			6.14	357.76
	4.04	361.80		
chk Well #4			5.73	356.07
				Record 356.07
U.S.G.S. B.M.				366.79
	0.24	367.03		
T.P.			7.14	359.89
	6.58	366.47		
T.P. Well #7			5.26	361.21
	5.26	366.47		
T.P.			6.58	359.89
	3.40	363.29 356.49		
T.P.			6.54	356.75
	5.70	362.45 355.65		349.95
T.P. Well #8			4.15	358.30
	4.15	362.45 355.65		351.50
T.P. Well #9			1.92	360.53
	3.32	363.85		353.73
T.P.			4.53	359.32
	4.13	363.45		
T.P. Well #10			2.40	361.05
	3.40	364.45		
T.P			5.30	359.15

Elev. established on intake flange about 2.0' below ground surface. Marked with blue arrow.

El. established on casing

El. established on casing

El. established on casing

	+	H.I.	-	Elev.	Description
T.P.				359.15	
	5.13	364.28			
T.P. Well #11			4.13	360.15	El. established on casing
	4.05	364.20			
T.P.			3.51	360.69	
	5.40	366.09			
T.P.			3.21	362.88	
	5.09	367.97			
T.P.			3.50	364.47	
	5.08	369.55			
T.P. Well #22			3.46	366.09	El. established on casing
	3.46	369.55			
T.P.			3.95	365.60	
	3.76	369.06			
T.P. Well #21			2.05	367.01	El. established on casing
	2.05	369.06			
T.P. Well #20			1.44	367.62	El. established on casing
	0.40	368.02			
T.P. Well #19			1.54	366.48	El. established on blue cross on 2"x12" plank, part of well casing
	1.54	368.02			
T.P.			1.28	366.74	
	1.17	367.91			
T.P. Well #18			2.11	365.80	El. established on casing
	2.56	368.36			
T.P. Well #17			4.29	364.07	El. established on casing

	+	H.I.	-	Elev
T.P. Well #17				364.07
	3.28	367.35		
			5.22	362.13
	4.01	366.14		
T.P. Well #61			2.92	363.22
	2.92	366.14		
T.P.			5.29	360.85
	5.88	366.73		
T.P.			4.51	362.22
U.S.G.S. Chk. B.M.	8.23	370.45		
			3.66	366.79
				Record 366.79
BM #1				367.11
	8.58	375.69		
T.P. Well #62			0.18	375.51
	0.18	375.69		
T.P.			5.56	370.13
	3.61	373.74		
T.P. Well #16			3.58	370.16
	3.58	373.74		
T.P.			8.40	365.34
	4.52	369.86		
Chk. B.M. #1			2.74	367.12
				Record 367.11

9.21

Description

(37)
Elliott T Note
Bailey Rod
7-1-27

EI. established on casing

Nail in power pole # 11635 (18)

EI. established on nail in 2"x12"
plank, part of well cover, Blue arrow.

EI. established on nail in 1"x12"
plank, part of well cover, Blue cross

	+	H.I.	-	Elev	Description
Well #18				365.80	
	3.00	368.80			
T.P.			2.75	366.05	
	10.40	376.45			
T.P.					
Well #23			5.47	370.98	El. established on blue arrow on
	5.47	376.45			2"x6" plank, part of well cover
T.P.			10.40	366.05	
	4.57	370.62			
CHK					
Well #18			4.82	365.80	Record
				365.80	
—	—	—	—	—	—
B.M. #2				373.30	Nail in bottom of power pole
	5.15	378.45			#11637
Well #24			4.26	374.19	El. established on blue cross on
	4.26	378.45			1"x12" plank, part of well cover.
T.P. CHK					
B.M. #2			5.15	373.30	Record
				373.30	
	4.57	377.87			
T.P.					
Well #29			7.53	370.34	El. established on casing
	2.15	372.49			
T.P.			5.37	367.12	
	4.82	371.94			
T.P.					
Well #28			3.15	368.79	El. established on casing
	3.15	371.94			
T.P.			5.10	366.84	

	+	H.I.	-	Elev	Description
T.P.				366.84	
	2.33	369.17			
T.P. Well #27			1.05	367.22	El. established on casing
	2.35	369.57			
T.P. Well #26			1.50	368.07	El. established on casing
	2.84	370.91			
T.P. Well #25			1.42	369.49	El. established on casing
	6.32	375.81			
chk. B.M. #2			2.50	373.31	Record 373.30
B.M. #3				388.01	Nail in pole, first pole east of # $\frac{5}{10}$
	4.35	392.36			
T.P.			8.94	383.42	
	3.39	386.81			
Staff Gage Roberts Pond			7.26	379.55	El. established on top of graduated rule which is nailed to 1"x4" post.
	7.26	386.81			
T.P.			3.39	383.42	
	9.50	392.92			
chk. B.M. #3			4.91	388.01	Record 388.01

	+	H.I.	-	Elev
B.M. #4				385.16
	0.38	385.54		
T.P.			7.30	378.24
	5.76	384.00		
Well #30			4.97	379.53
	4.97	384.00		
Well #31			3.84	380.16
	3.84	384.00		
T.P.			5.76	378.24
	7.32	385.36		
CHK. B.M. #4			0.90	385.16
				Record 385.16
B.M. #5				390.52
	0.28	390.80		
Well #33			6.52	384.28
	6.52	390.80		
CHK. B.M. #5			0.28	390.52
				Record 390.52
B.M. #25				388.81
	4.18	392.99		
T.P.			2.22	390.77

Description
Nail in bottom tel. pole # $\frac{5}{42}$
 $\frac{2}{2}$

El. established on blue cross on 2" x 12" plank, part of well cover.
El. established on casing.

Cross on rock west of entrance to San Pasqual Battle Grounds.
El. established on casing

Spike in Power Pole # 11698, 1/4 mile east of Santa Maria Creek

July 6 1927
 Elliott & notes
 Bailey rod

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	+	H.I.	-	Elev	Description
T.P.				390.77	
T.P. Well #90	5.88	396.65	2.32	394.33	El. established on casing
T.P. Well #91	2.32	396.65	6.23	390.42	El. established on casing
T.P. Well #42	5.47	395.89	4.82	391.07	El. established on casing
T.P. Well #1	4.82	395.89	5.47	390.42	
	9.77	395.19			(Bailey chased by bull - no target set)
T.P.			5.46	389.73	
chk B.M. #25	3.09	392.82	3.98	388.84	Record 388.81
B.M. #74				429.07	N.E. Wing wall of bridge over San Dieguito Creek. Point of granite rock
Well #59	2.08	431.15	6.67	424.48	El. established on casing
chk B.M. #14	6.67	431.15	2.08	429.07	Record 429.07
T.P.	2.08	431.15	5.72	425.43	
T.P.	3.70	429.13	2.07	427.06	
T.P.	6.52	433.58			

	+	H.I.	-	Elev.	Description
		433.58			
Well #57			2.46	431.12	El. established on casing
	2.46	433.58			
T.P.			3.66	429.92	Peg by fence
	5.23	435.15			
T.P.			4.34	430.81	
	5.08	435.89			
T.P.			5.10	430.79	
	5.65	436.44			
Well #58			3.61	432.83	El. established on casing
Well #57				431.12	
	4.59	435.71			
T.P.			2.89	432.82	
	5.75	438.57			
Well #55			2.15	436.42	El. established on casing
	2.15	438.57			
T.P.			5.44	433.13	
	2.69	435.82			
Well #56			5.09	430.73	El. established on casing
	2.68	433.41			
T.P.			5.34	428.07	
	2.40	430.47			
T.P.			2.81	427.66	

Not closed/See page 46

(42)

	+	H.I.	-	Elev	Description
T.P.				427.66	
	2.38	430.04			
T.P.			4.12	425.92	
	7.98	433.80			
chk. B.M. #14			4.82	429.08	Record 429.07
BM #7				409.10	Concrete base of flagpole in front of San Pasqual School
	1.28	410.38			
T.P.			10.00	400.38	
	3.27	403.65			
Well #60			7.45	396.20	El. established on blue arrow on well cover, a 1" x 18" x 24" board.
	7.45	403.65			
T.P.			3.27	400.38	
	10.01	410.39			
chk. B.M. #7			1.29	409.10	Record 409.10
B.M. #16				435.84	Bolt head at west side of south end of San Pasqual River Bridge.
	2.30	438.14			
T.P.			5.72	432.92	
	5.31	437.73			
Well #52			8.41	429.32	El. established on 12" Casirgin pit.
	8.41	437.73			
T.P.			5.31	432.92	

	+	HI	-	Elev.	
T.P.				432.92	
chk. B.M.#16	5.68	438.10	2.26	435.84	Record 435.84
B.M.#18				448.54	
	3.69	452.23			
T.P.			2.78	449.45	
	0.97	449.92			
Well #45			5.23	444.69	
	5.23	449.92			
Well #44			0.26	449.66	
	0.26	449.92			
T.P.			3.94	445.98	
chk. B.M.#18	2.05	453.03	4.98	448.55	Record 448.54
B.M.#17				438.90	
	3.17	442.07			
Well #48			2.18	439.89	
	2.18	442.07			
chk. B.M.#17			3.17	438.90	Record 438.90

Description

Spike in SDG+E pole #11922

El. established on 12" casing, blue mark.

El. established on casing.

Spike in Pole #11916

El. established on casing

July 7 1927
Elliott T. Notes
Bailey Rod

(45)

	+	HI	-	Elev	
Well #48				439.89	
	1.93	441.82			
T.P.			5.04	436.78	
	3.95	440.73			
T.P.			8.59	432.14	
	4.46	436.60			
Well #46			2.06	434.54	
	2.06	436.60			
T.P.			3.86	432.74	
	7.95	440.69			
T.P.			3.91	436.78	
	5.83	442.61			
chk. Well #48			2.72	439.89	Record 439.89
B.M. #17				438.90	
	2.78	441.68			
Well #49			3.10	438.58	
	2.91	441.39			
Well #50			3.88	437.51	
	3.88	441.39			
Well #51			6.88	434.51	
	6.88	441.39			
T.P.			3.92	437.47	
	4.42	441.89			
chk. BM #17			2.99	438.90	Record 438.90

Description

El. established on casing

Spike Pole # 11916

El. established on casing

El established on casing

El. established on 6" casing

	+	HI	-	Elev	Description
BM #15				435.93	Bolt head Westside of north end San Dieguito Riv. Br.
	0.35	436.28			
Well #53			10.80	425.48	El. established on 4"x4" beam over well.
	10.80	436.28			the intake flange is 3.19 lower or 422.29
T.P.			3.91	432.37	
	4.78	437.15			
Well #54			4.66	432.49	El. established on 1" x 29" x 29" Well Cover
	4.66	437.15			
T.P.			4.78	432.37	
	6.62	438.99			
chk BM #15			3.07	435.92	Record 435.93

Check Levels Well #58 See page 42

T.P.				429.92	Reg by fence
	5.13	435.05			
T.P.			4.24	430.81	
	5.01	435.82			
T.P.			5.03	430.79	
	5.68	436.47			
chk Well #58			3.63	432.84	Record 432.83

	+	HI	-	Elev	Description
B.M.#22				421.45	Spike in Power Pole # 11894
	3.56	425.01			
Well # 93			4.71	420.30	El. established on intake flange.
	4.71	425.01			
chk B.M.#22			3.56	421.45	Record 421.45
B.M.#23				417.34	Spike in Anchor Pole
	1.57	418.91			
Well #64			8.91	410.00	El. established on blue mark on casing, 12" vitrified pipe.
	8.91	418.91			
chk B.M.#23			1.57	417.34	Record 417.34

see page 50

Aug. 30-27

P.O. Huchling
Brooks Bailey
No. 211

(48)

A line of Levels to Establish Elevations

on additional Well driven in Sec.

-Topog. sheet

Point of Beginning - Well #13 352.74 Elev.

	5.11 + Rod	357.85 H. I.	- Rod	Elev.	Remarks
Well #10-B			6.86	350.99	Top of 4" cas.
			6.53	351.32	" " Peg
Well #11-B			6.79	351.06	Top of 4" cas.
			7.03	350.82	" " Peg
Well #12-B			7.08	350.77	Top of 4" cas.
			6.66	351.19	" " Peg
T.P.			5.03	352.82	
	5.19	358.01			
12" cas. Well #1-B			5.37	352.64	on Peg about level with ground casing does not extend above ground
Well #2-B			5.11	352.90	Top of 4" cas. pipe is wiggly N-G for Elev.
			4.31	353.70	" " Peg
Well #3-B			5.08	354.93	Top of 4" cas. 4" casing in 12" diam hole - wobbly
			5.99	352.02	" " Peg
Well #4-B			5.14	352.87	" " Peg 12" diam hole casing does not reach to surface
Well #5-B			5.92	352.09	" " " " " " " " " "
Well #6-B			6.45	351.56	" " " " " " " " " "
Well #7-B			6.52	351.49	" " " " " " " " " "
T.P.			4.70	353.31	
	4.79	352.10			
Well #8-B			5.32	352.78	" " " " " " " " " "
Well #9-B			4.98	353.62	Top of 12" cas.
T.P.			3.41	354.69	
	5.10	359.79			

See page 50

Levels to supplementary Wells contin.

Aug. 30-27

P.O.G. Rec.
Brook Instr.
McBain Rod
Bailey Rod

(49)

	+ Rod	H.I.	- Rod	Elev.	Remarks
		359.79			
Well #13-B			3.63	356.16	Top of Access
			3.05	354.14	= 356.07
			5.27	354.52	peg levels to close on starting Elev.
4.37	358.89				
			6.22	352.67	
4.50	357.17				
			5.65	351.52	
4.79	356.31				Record Elev.
			3.57	352.74 = 352.74	
check levels to find reason for diff. with Elliot 0.07 ft Well #13 to Well #4					
5.02	357.76			352.74	
			5.05	352.71 = 352.82	
4.81	357.52				
			2.14	351.38	Well #7-B
			4.32	353.20 = 353.31	
4.48	357.68				
			3.12	354.56 = 354.69	
4.52	359.08				
			3.08	356.00	

Correct Elev. for. Supplementary Wells

by Gottschling
Bailey
McBaine

(50)

Point of beginning Well #				Elev. by Elliott	
Well #13-B	3.08	357.15	3.03	356.07 + 356.09	Top of 4' cas.
T.P.			4.52	354.63	
	3.49	358.12			
Well #9-B			5.05	353.07	Top of 4' cas.
" #8-B			5.40	352.72	" " Peg 12" dia. Well casing does not reach surface
T.P.			4.85	353.27	
	4.70	357.97			
Well #7-B			6.52	351.45	Top of Peg " " " " " "
" #6-B			6.45	351.52	" " " " " "
" #5-B			5.93	352.04	" " " " " "
" #4-B			5.14	352.83	" " " " " "
" #3-B			5.99	351.98	" " " " " "
			5.02	352.89	on casing 4" in 12" hole wobbly affair
" #2-B			3.11	354.26	" " " " " "
			4.31	353.66	Top of Peg
Well #1-B			5.38	352.51	Top of Peg 12" diam. Well casing does not reach surface
T.P.			5.20	352.77	
	4.79	357.56			
Well #12-B			6.84	350.72	Top of 4' cas.
			6.41	351.15	" " Peg
Well #11-B			6.54	351.02	" " 4' cas.
			6.77	350.77	" " Peg
Well #10-B			6.62	350.94	" " 4' cas.
			6.28	351.28	" " Peg
			4.84	352.72	by Elliott 352.74 Top of Well #13

51

52

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(61)

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(73)

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(75)

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Breed & Hosmer

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 $\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance

IMPROVED TABLES

AND

INFORMATION

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given L may be found by dividing tangent (or external), opposite L by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

401.73	4.10	5.615	7.54
9.37	2.31	5.355	26
406.10	1.19	<u>260</u>	7.58
.35	4.65		
405.15	5.84		
<u>7.55</u>			
412.70			
2.65	7.7		
410.05	12.7		

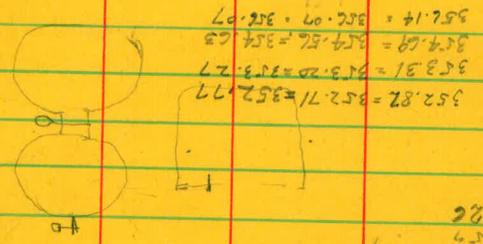
563
 H1
 +
 36022
 35459 BM#9
 Eler Sta
 12.95 34727 Well 13A
 748 35274 Well 13
 Elyr. fallen on top of shaft
 TP
 TP

+	H.I.	-	Elev	Sta.
			354.59	BM#9
563	36022			
		12.95	347.27	Well#13A
		7.48	352.74	Well#13

+	H.I.	-	Elev.	Sta.
			348.05	Well#12
3.16	351.21			
T.P.		8.55	342.66	
2.82	345.48			
		2.12	343.36	Well#12A
		4.05	341.43	Well#12B
T.P.		2.82	342.66	
8.63	351.29			
		1.21	350.08	BM#10 350.06
		3.22	348.07	Well#12

Note

Elevations were run with transit



$352.82 = 352.71 + 352.77$
 $353.31 = 353.20 + 353.27$
 $354.69 = 354.56 + 354.63$
 $356.14 = 356.07 + 356.07$

5
 4.02
 4.11
 4.22
 4.48
 4.52
 18.83
 15.57
 3.26

3.08
 3.49
 4.70
 4.79
 4.85
 4.85
 19.43
 18.06
 3.34
 3.26
 11

352.74
 356.11
 358.76
 359.99

3.57
 352.74
 356.07
 358.76
 359.99

+	H1	-	ELY Sta
			341.04 Well #63
367	344.71		

8.40	336.31	#63A
9.68	335.03	

T.P. 8.44 343.47

8.38	335.09	#63B
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T.P. 343.47

2.16	341.01	Well #63 341.01
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28.4
46.25
25.25

49.02
356.07
3.01

52.74

401.73

4.37

406.10

.95

405.15

7.35

412.70

2.65

410.05

4.10

2.91

1.19

4.65

5.84

7.7

12.7

5.615

5.355

.260

7.84

.26

7.58