(136)
Item 32

36800294

GS-1 to GS-23
Samples

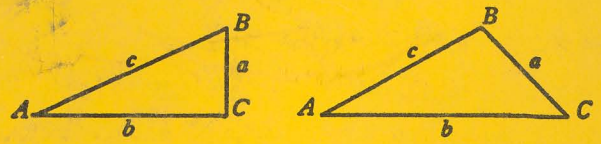
DDH SH-1
LOG

NATIONAL

425

TELEDYNE
NATIONAL TRACING PAPER

FORMULAE FOR SOLVING RIGHT TRIANGLES



$$\text{Sin } A = \frac{a}{c} = \text{Cos } B \quad , \text{Cot } A = \frac{b}{a} = \text{Tag } B$$

$$\text{Cos } A = \frac{b}{c} = \text{Sin } B \quad \text{Sec } A = \frac{c}{b} = \text{Cosec } B$$

$$\text{Tan } A = \frac{a}{b} = \text{Cot } B \quad \text{Cosec } A = \frac{c}{a} = \text{Sec } B$$

Given	Required	Solution
A, c	B, a, b	$B = 90° - A, a = C \sin A, b = C \cos A.$
A, b	B, a, c	$B = 90° - A, a = b \tan A, C = \frac{b}{\cos A}.$
A, a	B, b, c	$B = 90° - A, b = a \cot A, C = \frac{a}{\sin A}.$
a, c	A, B, b	$\sin A = \frac{a}{c}, \cos B = \frac{a}{c}, b = \sqrt{(c+a)(c-a)}$
a, b	A, B, c	$\tan A = \frac{a}{b}, \cot B = \frac{a}{b}, c = \sqrt{a^2 + b^2}$

FORMULAE FOR SOLVING OBLIQUE TRIANGLES

Given	Required	Solution
A, a, b	B, c	$\sin B = \frac{b \sin A}{a}, c = \frac{a \sin C}{\sin A}$
A, B, a	b	$b = \frac{a \sin B}{\sin A}$
a, b, C	A, c	$A + B = 180° - C, C = \frac{a \sin C}{\sin A}$
a, b, c	Area	side $\frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc \sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2 \sin B \sin C}{2 \sin A}$

DDH SH-1
STRIPED HILLS

0-20 Rotary overburden

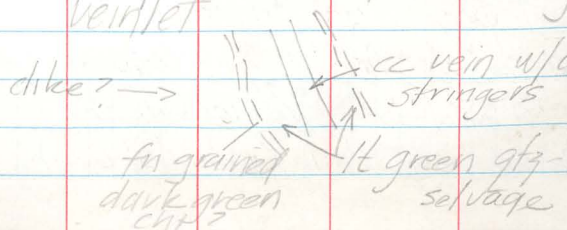
20-31 Silicified ls bdng @ ~50° to the core; prominent qtz filled fracture transecting all other features @ 20° to the core. Ls is somewhat brecciated; 1%± pyrite disseminated; 1-2% Mn on fractured surfaces. RL is oxidized. Gouge from 25-31 intermittent 6-8" zones w/ fractures @ 10-30° to core. Still appears to be annealed breccia to the base of this interval

31-39 Continued broken zone of silicified ls breccia. Gouge predominant 33-39. Fracturing @ 10-40° to core

39-56 Gouged silicified ls to ~43. At 43' get pods of oxidized pyrite (15-20%). At 45' get zone of pyritized ls ~10° to the core. Bdng controlled? At 45' oxidization

is confined to selvages along fractures. Also get qtz-rich dike-rk? w/ 5-10% garnet and 2-3% disseminated pyrite. Major qtz-filled fractures @ 10° to the core and minor breaks @ 80° to the core. Major fractures filled w/ qtz - some terminated (comb-like) w/ open spaces. Sulfides 3-5% disseminated and oxidized along fractures @ base of interval

50-60 Continued dike-like rk w/ 3-5% fresh, silvery pyrite 10-15% reddish garnet. Prominent fracturing @ 60° to the core w/ pyrite-chlorite coating the fracture. 56-58 calcite vein @ 0-5° to the core. Only minor sulfides along cc veinlet



58-59 still getting oxidation along fractures w/ yellow & red-brown limonite

60-69 From 60-62 get gouge material — oxidized. 62-69 still in equigranular dike-like rk. Major fractures @ 60° to core w/ chl-py. Minor fractures @ 80-90° to core w/ chl + py. Matrix of rk appears to be lower grade of alteration w/ lath-like xtls altered to whitish mineral (tremolite?). Some disseminated blebs of cc. Pyrite 1-2%

69-78 Continue dike rk to 73 ft. No garnet. Chl? or bio + qtz and py 2-3%. Fractures @ 5° to core and 60° to core — soft cc + chl filling. 73-78 altered ls. Irregular silicification and silication w/ chl as predominant phase. Still is present as irregular pods and bds? Band @ 60-90° to core w/ flatter zones more abundant

Fracture @ 73-74 60° to core w/ 1/8-1/4" red-brown limonite vein. Fracturing is more intense in ls than dike. Sparse pyrite.

78-87 Continued silicified ls w/ 0-1% disseminated pyrite. Prominent fractures @ 10-20° to the core w/ less abundant breaks @ ~60° to the core. Some brecciation along fractures w/ chl ± nontronite + qtz ? + cc filling. Minor oxidation still found along fractures - generally get yellow-greenish clay ?

87-96 Continued broken silicified ls w/ brecciated zones - some annealed w/ clay + cc. Bdng highly variable 70-90° to core

96-106 Continued silicified ls w/ greenish chloritic bands. Pods and bds of cc to 99 then zone of highly silicified rk to 105. More cc + sil in interval 105-106. Abundant dendrites of Mn 104-105. Bdng @ 60° to core

106-116 Resume highly fractured ls w/ increasing greenish material (yellow-green). Again get fractures @ 10-30° to core. Annealed breccia zones. Epidote ? as alteration ?? Mn @ 106-106.5, 109, 111-112' w/ good dendrites

116-125.5 Continue altered ls as above w/ bdng @ 30-50° to core. Fracturing still most prominent @ 10-30° to core. Mn along fractures as 1% disseminated blebs. Epi ? or Nontronite along some bds and all fractures. Change @ 125' from thinly laminated to massive dike rock. Qtz-py-po-moly + chalco

equigranular dike rk

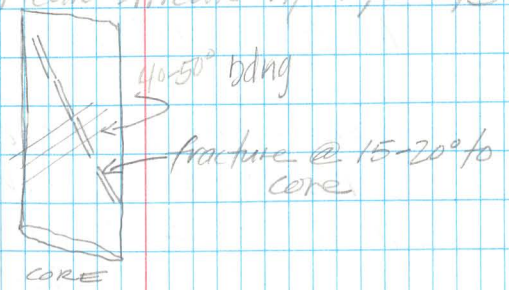
125.5-134 Continue as previous interval w/ minor fracturing - predominant @ 10° to core <5% pyrite

134-144 Continue highly siliceous dike w/ indistinct fractures to 138. Minor fracturing @ 40° to the core. Thinly laminated bdng @ 138' 50-60° to the core. 1-5% disseminated pyrite. Fracturing generally subparallel to bedding

144-153 Silicified + silicated rk w/ streaks of chl + pyrite controlled by bedding @ 30-40° to core. Pyrite 5-10% and much greater in pods and along seams. At 150' prominent fracture @ 5° to core that cuts less prominent fractures @ 40-50° to core 10-15/ft. Thus getting increasing breakage again. Skarn @ 151.5 w/ pods of garnet and diopside w/ pyrite 10-15% and some magnetite. Other calc-silicates present. Very prominent fracture @ 10-15° to core cutting garnet skarn but also containing some calc-silicates.

153-163 Oxidized gougy appearing rk from 160-163. Was skarn but probably broken before contact alteration. Skarn continues from 153-157 then get coarsely recrystd marble 157-160 w/ 1-2% disseminated pyrite.

163-173 Calc-silicate hf to 165 then somewhat oxidized, brecciated skarn 165-169. Gouge 169-170 Broken calc-silicate hf 170-173



173-183 Completely broken, sheared calc-silicate hf 173-181 w/slickensides @ 10-20° to the core 178-180

Broken but not gouged calc-silicate hf 181-183

183-193 Continue broken hf w/ gouge @ 185', 188-189, and 190-191. Less fracturing 192-193

193-203 Calc-silicate hf w/ less brecciation continued. Massive zone of pyrite 195-196 and 198.5-199.5. Abundant prominent fracturing 10-20° to core 200-203

203-211 Highly silicified calc-silicate hf Generally thinly bdd 70-80° to the core @ 205'. 207-211 get prominent fracturing @ 10-30° to core

211-221 Very hard, siliceous hf 211-213. Pods of garnet + pyrite @ 213.5 to 214.5. Then intensely silicified hf to 221, w/ 3-5% disseminated pyrite

221-231 Break from 221 to 224 w/epidote along fractures @ 10-20° to core 224-231 intensely silicified hf w/ 1-5% disseminated clusters of pyrite

231-242 Continue mostly cohesive hf w/ altered porphyry dike 232-237.5 Prominent filled fractures @ 20-30° to core. Pyrite in seams and as disseminations

242-250 Bedding @ 40-50° to core and prominent fracturing subparallel @ 30-40° to core. Continue hf w/no major break zones

250-259 Very hard siliceous calc-sil. hf
Bdng @ 40-50° to core
Little or no fracturing in this
interval. About 1% or less
pyrite - generally along fractures

259-269 Continued very hard siliceous
hf. Bdng @ 30-40° and 40-50°
to the core. Finely laminated
greenish rk. Pyrite sparse -
confined to fractures 10-20°
and 40-50° to the core.

269-279 Continued very hard bdng
40°-50° to core. Minor fracturing
3-5% disseminated along bdng
in places

336-346 Siliceous hf to 337. Intermittent dike 337-341.5. Dike is strongly altered. Below dike get occasional moly veinlets - 5-8% disseminated pyrite in core. Dike-hf contact is subparallel to bdng

40° to core

346-355 Very siliceous hf - hard for entire interval 1-5% pyrite. Occasional quartz veinlets w/sulfides

355-365 Very hard hf to 360. At 360 get skarn assemblage to 363. Garnet + diop + epidote (especially abundant) 10-20% pyrite. 363-365 hf w/ to 5% pyrite. Minor qtz veinlets w/ moly and some copper?

365-375 Continue calc-silicate hf w/some seams of qtz w/ 30% pyrite, some molybdenite and sparse chalcopyrite?

375-385 Continue hf w/seams of pyrrhotite w/some pyrite. Calc-silicates intergrown w/ sulfides. Most of interval is hard hf

385-394 Continue hf w/ pyrrhotite + moly + copper in seams and pods
Arsenopyrite?

394-404 Continue hf w/annealed brecciated & fractured rk 398-404. Continue abundant sulfides along fractures

404-414 Continued hard hf w/pyrite - some moly along veinlets

414-423 Hf w/ garnet streaks 415-422. Assoc pyrrhotite - chalcopyrite. Pyrite is silvery. Minor magnetite. Annealed breccia 418-420. Garnet occurs as slightly massive zones parallel to bedding

423-433 Hard hf w/only minor streaks of garnet. Only minor fracturing to base of interval

433-442 Continued hf - hard w/only minor fracturing @ 40-50° to the core. Qtz veinlets along some of these sparse fractures contain abundant molybdenite

442-451 Continue hf to 446.5 w/ some qtz veinlets containing moly mineralization. Some vertical & some 30-40° to the core. Bdng generally 40-50° to the core. Porphyry dike @ 446.5 w/altered bio bls and cloudy diffuse fsp - near bottom contact @ 445.5 fsp is greenish - probably due to sericite. Hf to 448.5 then porphyry dike to base of interval. 5-10% pyrite in dike - some chalco? Altered as before. Rt in porphyry.

451-461 Continue altered porphyry to 454. Then get mixed hf-porph to 455. Hf to base of interval w/ qtz-moly-pyrrhotite veinlets. Hf is quite mottled @ 461 w/ irregular streaks of px? Some garnet along bdng

461-470 Calc-silicate hf for entire interval w/ zones of intense sulfide enrichment - py+ po+ moly+ chalco (minor in general relative to other sulfides)

470-480 Mineralized hf for entire interval w/ zone of highly fractured material w/ qtz veinlets w/ abundant sulfides

480-489 Hf as above 480-484.5 Then porphyry as before to 486. Then calc-silicate hf to base of interval. More garnet enrichment 487-489 than usual.

489-499 Hf to 490.5 w/ 5 dike as before then hf to base of interval. Small epidote enriched gouge zone @ 496 w/ flat contact through core

499-508 Annealed broken zone 499-500. Entire interval is mineralized hf as before.

508-518 Continue mineralized hf as above w/ py-po-moly veinlets some sparse chalco?

518-527 Intensely fractured, hornfelsic vk w/ qtz pyrite along breaks @ 60-90° to core. Intensity of 12-18 major breaks/foot of core. Breccia has been recemented by silica but competency is poor. The core is quite broken to the base of the interval. Sparse moly

527-537 Continue broken hf w/ core quite shattered due to intensity of fracturing. Prominent qtz-cc vein @ 10° to core, but most of fractures about 60° to core. Pyrite 5-15% w/ abundant fine grained moly in places.

537-546 Calc-silicate hf w/ abundant pyrite bearing qtz veinlets w/ sparse moly. Seams are generally 30-50° to the core & subparallel to bedding. Intensity is 5-10/ft. Core holds together well unlike last two intervals. Qtz predominant alteration w/ some seams of px?

546-555 Continue hf as above w/ pyrite-pyrrhotite w/ minor chalcopyrite and molybdenite. Fracturing @ 5-10/ft. Bdng @ 30-40° to the core. Fracturing @ 40-60° w/ some @ 80-90° to the core.

555-565 Continue hf w/ py-po-moly veinlets. Core is quite broken from 559-563

565-575 Continue hf w/ po > py ± moly both disseminated and along qtz-cc veinlets. Core more cohesive w/ 5-10 fractures/ft still get prominent fracture 80-90° to core filled w/ qtz and calcite. At base of interval sulfides are mostly disseminated

575-584 Hf as above w/ disseminated py-po-moly ± chalco to 577 then most of sulfide in veinlets. Bedding @ 40-50° to core. Fractures mostly @ 40-50° to core but not right along bedding in all cases

584-593 Continue hf w/ po-py-moly-gar as disseminations to 591. Then get blk rlc w/ nearly vertical black zones w/ interzones of 20-30% or more pyrite. Rock is sedimentary w/ spotting suggesting bdng @ 10-15° to core. Continue 50-60° fracturing throughout interval w/ intensity of 5-10/ft.

593-607 593-597 - 2' recovered. Black streaked ls to 594. Then mostly broken w/ carbonaceous ls containing 2-4% euhedral pyrite. 597-601 100% recovery w/ broken carbonaceous ls (actually hf) to 598. Then hf as before but mostly broken and very siliceous. Most prominent fracturing @ 15-30° to the core. 601-604 get 2.5 ft recovery. 604-607 get ~1 ft. All in hf.

calc-sil

607-616 Hard, hf sil ls w/ py + moly to 609. At 609 get blk carbonaceous, 5-10% disseminated py + po w/ py + gar along veinlets. Fracture intensity is still 5-10/ft. Blk hf to 615, then lighter greenish hf to base of interval w/ streaks of blk material.

616-624 Lighter hf to base of interval w/ bedding @ 40-50° to the core and fracturing @ 30-50° to the core - fracture intensity is variable @ 5-10/ft on the average

624-638 Lt hf to 626.5 then blk carbonaceous hf w/ pyrite 5-10%. Broken w/ gouge 633-635 (50% recov)

BLACK CARBONACEOUS LIMESTONE AND HF

638-647 Cont Blk hf - broken 100% recovery - abundant cleavage @ 30-50° to core. Prominent fracture @ 20° to core

647-657 As immediately above 100% recovery

657-667 Ditto 100% recovery

667-676 Ditto 100% recovery

676-685 Broken to 680 then blk carbonaceous w/o breakage - some 1"-3" whiter ls lenses or beds w 1-5% pyrite as disseminations. In solid rk fractures are 1-5/ft w/ some zones of 5-10 General appearance is of only slightly fractured rk

685-694.5 Very hard, dense blk ls - good rexn w/ HCl. Minor hairline white calcite filled fractures @ 30-50° to the core. Bdng @ 40-50° to the core.

694.5-704 Continue black hf w/ some thinly laminated broken zones. No rexn w/ HCl in general

704-715 Continue hf w/ loss of 6" from 704-710. Broken completely 708-713. Minor white 1s or marble zones mixed w/ hf

715-724 Annealed breccia 715-717 w/ white to pinkish calcite mixed w/ blk carbonaceous hf. Rock is generally quite shattered for the entire interval. Pyrite is very fine <1%.

724-733 Continue blk hf w/ less carbonate material 724-726 ~75% recovery

733-740 Ditto w/ 1-3% disseminated pyrite

740-751 Ditto. Veining still minor 1-5/ft and hairline width

751-761 Dense, blk hf. Shattered 756-760. Avg ~1% pyrite

761-770 Ditto w/ intermittent shattered zones 760-763 (1.75' recovery)

770-777.5 Ditto. 770-775 Intermittent shattered rk.

777.5-787 Ditto. Minor fracturing and veining

787-797 Ditto w/ some carbonate zones 787-789 - but mostly blk hf. Considerable breakage 793-797.

797-806 Continue blk hf w/ considerable broken core 803'-806' (1' loss) still <1% pyrite

806-817 Dense blk hf 90% recovery <1% pyrite

#	interval	rk
41530	20-31	Ls
41531	31-39	Ls gouge
41532	39-43.3	gouge
41533	43.3-52	dike
41534	52-60	dike
41535	60-62.7	dike Fox
41536	62.7-67	dike
41537	67-73	dike
41538	73-82	
41539	82-91	
41540	91-100	
41541	100-110	
41542	110-120	
41543	120-124	
41544	124-138	
41545	138-151	
41546	151-157	skarn
41547	157-167	
41548	167-178	
41549	178-183	
41550	183-193	
41551	193-199	
41552	199-207	
41553	207-217	
41554	217-221	

11-26

TO 4554 ↓ ↑

12-5

4554 ↓ TO

12-12

#	interval	
41555	221-226	
41556	226-235	
41557	235-245	
41558	245-254	
41559	254-263	
41560	263-273	
41561	273-279	298-303.5
41562	279-283	(303.5-308 41562 dike)
41563	283-290	
41564	279-283.4	inf
41565	290-298	
41566	308-312	
41567	312-321	
41568	321-330	
41569	330-337	
41570	337-341.5	
41571	341.5-350	
41572	350-360	
41573	360-363	
41574	363-373	
41575	373-383	
41576	383-392	
41577	392-402	
41578	402-412	
41579	412-422	

12-19-75

41580	422-431		41606	667-676	
41581	431-439		41607	676-685	
41582	439-449		41608	685-694.5	
41583	449-454	dike	41609	694.5-704	
41584	454-463		41610	704-715	
41585	463-472		41611	715-724	
41586	472-482		41612	724-733	
41587	482-491		41613	733-740	
41588	491-499.5	506-508	41614	740-751	
41589	499-506		41615	751-761	
41590	508-518		41616	761-770	
41591	518-527		41617	770-777.5	
41592	527-537		41618	777.5-787	
41593	537-546		41619	787-797	
41594	546-555		41638	797-806	
41595	555-565		41639	806-817	
41596	565-575		41640	817-826	
41597	575-584		41641	826-836	
41598	584-593		41642	836-846	
41599	593-607		41643	846-856	
41600	607-617				
41601	617-624				
41602	624-638	blk hf			
41603	638-647				
41604	647-657				
41605	657-667				

To Assay 12-24-75

12-31-75

To Assay

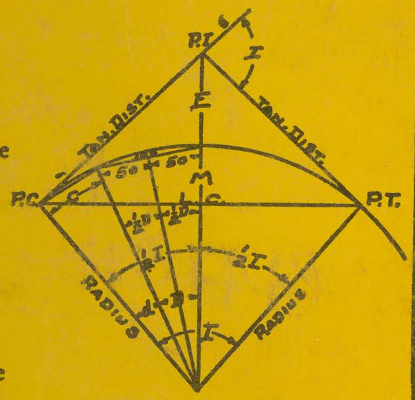
1-24-76

To Assay 1-24-76

1-24-76

CURVE FORMULAE

D=Degree of Curve
1°=1-Degree of Curve
2°=2-Degree of Curve
P.C.=Point of Curve
P.T.=Point of Tangent
P.I.=Point of Intersection
I=Intersection of Angle, Angle Between Two Tangents
L=Length of Curve, from P.C. to P.T.
T=Tangent Distance
E=External Distance
R=Radius
L.C.=Length of Chord
M=Length of Middle Ordinate
c=Length of Sub-Chord
d=Angle of Sub-Chord



$$R = \frac{L.C.}{2 \sin \frac{1}{2} I} \quad T = R \tan \tfrac{1}{2} I = \frac{L.C.}{2 \cos \frac{1}{2} I}$$

$$\frac{L.C.}{2} = R \sin \frac{I}{2}, \; D\,1° = R = 5730, \; D\,2° = \frac{5730}{2}, \; D = \frac{5730}{R}$$

$$M = R\,(1 - \cos \tfrac{1}{2} I), = R - R \cos \frac{I}{2}$$

$$\frac{E + R}{R} = \sec \frac{I}{2}, \; \frac{R - M}{R} = \cos \frac{I}{2}$$

$$c = 2\,R \sin \tfrac{1}{2} d, \; d = \frac{c}{2\,R}$$

$$L.C. = 2\,R \sin \tfrac{1}{2} I, \; E = R\,(\sec \tfrac{1}{2} I - 1), = R \sec \frac{I}{2} - R$$

Minutes in Decimals of a Degree.

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8657
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

Inches in Decimals of a Foot.

1/16 .0052	3/32 .0078	1/8 .0104	3/16 .0156	1/4 .0208	5/16 .0260	3/8 .0313	1/2 .0417	5/8 .0521	3/4 .0625	7/8 .0729
1 .0823	2 .1667	3 .2500	4 .3333	5 .4167	6 .5000	7 .5833	8 .6667	9 .7500	10 .8333	11 .9167

SHI GROUND MAG

3680 0032 0294

136

Item 32

KE

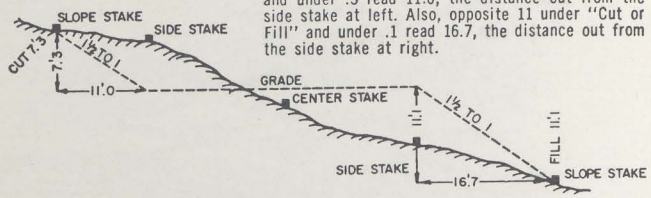
INSPECTION BOOK

8 0024

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

For Curve Tables see end of book.

P. Valkenaak (136)
3610 Louis ~~Rd~~ Item 32
Palo Alto, CA. ~~98~~ 94303

K+E The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

KEUFFEL & ESSER CO.

(303) 494-8101
(303) 499-1000 ext.

AVG. READ @ 11:00 = 312

Sept 23, 1975

Station	Time	#1 Reading	#2	#3
~~025~~	~~10:04am~~	~~54400~~	~~54400~~	~~54400~~
024	10:16 am	54335	54334	54334
023	10 25am	54322	54321	54320
022	10:33am	54307	54308	54307
021	10:36am	54312	54311	54311
11 am	Calibration Station			
	Rog 54322	N 54324	Lo 54324	S 54321
020	11:25am	54312	54312	54312
019	11:30am	54312	54313	54312
018	11:34am	54311	54311	54311
017	11:45am	54309	54309	54309
016	11:49am	54302	54301	54301
015	11:51am	54312	54311	54311
014	12:00pm	54315	54316	54315
013	12:10	54331	54331	54331
013-10	12:12	54329	54329	54329
012	12:15	54269	54269	54269
012-10	12:20	54266	54267	54268
011	12:25	54317	54317	54317
010	12:27	54306	54306	54305
009	12:30	54286	54287	54287
008	12:32	54306	54306	54306
007	1235	54347	54348	54348
007-10	1237	54350	54349	54351
006	12:39	54363	54362	54362
005	1241	54373	54373	54373
004	12:45	54341	54343	54342
003	12:50	54366	54367	54366
002	12:53	54358	54358	54359
001	12:58	54361	54360	54360
000	13:00	54378	54376	54377

024 33 Ft east of BO #12 (4?2?)

022 33 Ft west of BO 10/11 9/12 3/1 4/6

013-10 Taken 10 Feet East (on line) of 013

012-10 Taken 10 Feet West (on line) of 012

007-10 Taken 10 Feet West (on line) of 007

000 275 Feet North of SH 106-4 206-6

9/23

Redo Line 0 from SH 106-4 206-6

R 000	1307	54367	54366	54366
R 001	1310	54335	54334	54334
R 002	1313	54337	54337	54337
R 003	1316	54346	54348	54348
R 004	1320	54371	54369	54369
R 005	1322	54359	54360	54361
R 006	1324	54350	54350	54349
R 007	1327	54346	54347	54346
R 008	1330	54323	54322	54321
R 009	1332	54310	54311	54309
R010	1336	54294	54294	54294
R011	1338	54274	54275	54275
R012	1340	54293	54293	54293
R013	1344	54277	54277	54279

Calibration

~~54320 54318 54319~~

2:00pm	54330	54328	54329	
	N 54326	W 54326	S 54330	E 54336

R014	1433	54300	54300	54301
R015	1438	54314	54315	54315
R016	1444	54301	54302	54302
R017	1446	54317	54317	54316
R018	1449	54316	54316	54316
R019	1453	54328	54328	54328

R 001 10' East of ~~B.M.~~ Section Marker

S3 | S2
S10 | S11 T 39 N R 42 E

R003 10' West of SH 106-3 105-4
206-1 205-6

R006 33' West of Claim post, on line

R009 50' West of SH 104-3 1034
204-1 2036

R012 55' West of SH 103-3 - 102-4
203-1 202-6

R014 75' West of USGS ¼ S2/S11

R015 115' West of 102-3 101-4
SH 202-1 201-6

R019 10' East of B.O. H10/H11 H4
SH 101-3
201-1

✓ Sept 24 -8.8

K - Factor Max 2 with possible change late in the day
Sept 23 K - Factor Max 1

Calibration Station
8:40 54328 54328 54328 5

N 54326 W 54328 S 54344 E 54330

Added New Batteries & Repaired the pole.

1534	10:00	54221	54221	54220	210	54224	+4
1535	10:15	54246	54246	54247	243	54251	+5
1536	10:17	54228	54228	54228	228	54233	+5
1537	10:21	54230	54230	54231	227	235	+5
1538	10:25	54234	54234	54234	231	239	+5
1539	10:30	54239	54239	54239	237	245	+6
1540	10:35	54239	54238	54238	230	244	+6

Calibration Station
11:00 pm 54320 54322 54320

N 54309 W 54310 S 54315 E 54327

025	11:14	54388	54388	54388		388
026	11:17	54306	54306	54305		301
026+10	11:18	54301	54301	54299	54299	301
027	11:21	54266	54266	54267		
~~027-10~~						
028	11:28	54309	54308	54308		
029	11:33	54367	54366	54366		
030	11:38	54335	54336	54337		
030	1140	54268	54268	54270		
031-10	1144	54261	54260	54260		
032	1148	54200	54200	54200		
032-10	1150	54201	54201	54201		

1534 BO - 16-5
- 15-2

025 23' West of

BO - 13-6, 8-4, 14-1, 9-3

026+10 10 Feet East of 026

~~027-10 10 feet East of 027~~

028 93' West of BO 8/13 7/14 3/1 4/6

USGS 2/11 1/12 T39NR42E

031-10 10 Ft East of 031-

031- 150' East of BO 7/11 6/15 3/1 4/6

032-10 10 Ft East of 032

✓ 9/24 — 88

033	1154	54214	54215	54214		
034	1200	54217	54216	54217		
~~035~~	~~1203~~	~~54226~~	~~54226~~	~~54225~~		
035	1218	54204	54203	54204		
036	1223	54241	54241	54242		
037	1228	54235	54235	54235		
038	1229	54253	54254	54253		
039	1233	54246	54244	54247		
040	1236	54243	54243	54243		
1N37	1258	54257	54255	54255	47	255
1N35	1301	54244	54244	54245	36	244
1N39	1304	54262	54262	54263	54	262
1N40	1309	54274	54274	54273	66	274
		54				
1N36	1316	54230	54232	54233	24	232
1N35	1323	54246	54246	54246	288	246
1N34	1326	54228	54228	54229	220	228
1N33	1331	54221	54222	54222	14	222
1N32	1334	54217	54218	54218	10	218
1N31	1340	54196	54196	54197	188	196
1N30	1343	54163	54162	54162	154	162
1N29	1345	54257	54258	54258	250	258
	Cal					
	2:00	54321	54321	54321		
		N 54315	W 54315	S 54323	E 54332	
						+4
1N28	3 1540	54230	54231	54231	230	238 +7
1N27	1545	54292	54292	54292	291	299 +7
1N26	1548	54348	54348	54348	347	355 +7
1N25	1550	54272	54273	54273	272	280 +7

035 at BO $\frac{6|5}{15|16}$ $\frac{3|4}{1|6}$

038 25 Feet West of B.O. $\frac{4|5}{16|}$ $\frac{3|4}{1|}$

1N37 at BO #4-5
#5-2

1N36 100' Feet West Location Boundary BO #5

1N34 50' Feet West B.O. #6-2 #5-5

1N32 at B.O. Location #6

1N25 B.O. #8-5 7-2

9/24 -88

1N24	1555	54292	54293	54294	294	302 +8
1N23	1558	54312	54313	54313	313	321 +8
1N22	1600	54299	54300	54299	299	307 +8
1N21	1610	54298	54299	54299	300	308 +9
1N20	1614	54314	54314	54314	315	323 +9
1N19	1616	54306	54308	54307	308	316 +9
1N18	1619	54307	54307	54309	310	318 +9
1N17	1622	54345	54343	54342	343	351 +9
~~1N16~~	~~1630~~					
	~~54~~	Calibration 5:00 pm				
	1700	54333	54333	54333		
		N 54319	W 54322	S 54325	E 54326	

1N22

1N19 BO #10-5 SH ~~101~~ 101-2

1N16 SH #101-5 102-2

9/25 predicted
Max K = 4.0 after 12:00 — 108

Actual K for 9/24 Avg < 1.0 Max 1.0

Calibration	8:45	54336	54336	54336	
Station.		N 54323	W 54326	S 54329	E 54344
	11:05	54321	54322	54322	
		54308	54314	54325	54324
1N16	1115	54408	54407	54406	396
1N15	1118	54346	54346	54345	335
1N14	1121	54335	54336	54335	325
1N13	1124	54299	54298	54298	288
1N12	1126	54305	54304	54304	294
1N11	1128	54287	54289	54290	280
1N10	1131	54265	54264	54265	255
1N09	1135	54288	54288	54287	277
1N08	1137	54330	54332	54331	321
1N07	1140	54275	54277	54278	268
1N07-15	1142	54313	54313	54313	303
1N06	1144	54304	54303	54304	294
1N05	1146	54285	54284	54283	273
1N04	1151	54327	54329	54328	318
1N04-25	1154	54291	54290	54290	280
1N03	1156	54353	54352	54352	342
1N02	1159	54343	54344	54343	333
1N01	1201	54348	54348	54350	340

1N16 SH 101-5 102-2

1N13 SH 102-5 103-2

1N10 SH 103-5 104-2

1N07 SH 104-5 105-2

1N07-15 is 15' East of 1N07

1N04 SH 105-5 - 106-2

1N04-25 25' West of 1N04

1N01 SH 106-5

✓ 9/25 — 10 8

1501	1210	54294	54294	54295	285
1502	1215	54291	54290	54291	281
1503	1216	54329	54327	54328	318
1504	1218	54375	54376	54376	366
1505	1223	54371	54371	54372	361
1506	1226	54373	54374	54374	364
1507	1228	54275	54275	54275	265
1507-10	1230	54306	54305	54305	295
1508	1233	54286	54286	54288	276
1509	1235	54314	54314	54314	304
1510	1237	54303	54301	54304	293
1511	1240	54341	54340	54340	330
1512	1241	54308	54309	54309	299
1513	1244	54283	54283	54282	273
1514	1248	54375	54375	54375 ✓	365
1514-10	1249	54371	54372	54372 ✓	362
1515	1251	54395	54395	54394	385
1516	1253	54408	54407	54408	397
1517	1258	54408	54409	54409	399
1518	1300	54407	54408	54408	398
1519	1303	54463	54464	54462 ✓	453
1519-15	1305	54411	54411	54412 ✓	401
1520	1307	54337	54339	54338 ✓	329
1520-10	1309	54345	54344	54345 ✓	335
1521	1311	54224	54224	54226 ✓	214
1521-10	1312	54231	54231	54232 ✓	221
1522	1315	54252	54252	54251	243
1523	1325	54439	54439	54439 ✓	429
1523-10	1327	54443	54444	54443	433
1524	1328	54350	54350	54351	340
1524-10	1330	54350	54349	54349	339
1525	1334	54386	54387	54387	377

1501 SH #206-5

1504 SH 206-2 205-5

1507 SH 204-5 205-2

1507-10 10 Feet West of 1507

1510 SH 203-5 204-2

1513 SH 203-2 202-5

1514-10 10 ft. West of 1514

1516 SH 201-5 202-3

1519 SH 201-2 BO 11-5

1519-15 15 West of 1519

1520-10 10 West of 1520

1521-10 10 West of 1521

1522 BO 12-5 11-2

1523-10 10 Feet West of 1523

1524-10 10 Feet West of 1524

1525 BO # 135 12-2

✓ 9/25 -108

	Calibration				
2:00	1305	54326	54327	54327	
		N 54315	W 54317	S 54321	E 54333
26	1426 1422	54351	54350	54350	352
1527	1426	54336	54337	54337 +2	339
1528	1430	54298	54297	54295 +2	297
1529	1435	54328	54327	54328 +2	330
1530	1441	54255	54256	54255 +2	✓ 257
1530-10	1443	54255	54254	54253 +2	✓ 255
1531	1445	54248	54248	54247 +3	249
1532	1450	54246	54248	54246 +3	249
1533	1454	54234	54237	54236 +3	239
1534	1500	54231	54231	54233 +4	232
1535	1505	54252	54251	54252 +4	256
1536	1509	54242	54243	54243 +4	247
	3				

1526 BO #13-2 14-5

1530-10 10 feet West of 1530

1531 BO #15-5 #14-2

1534 BO 16-5 15-2

✓ 9/25

2537	1525	54246	54245	54245	240
2538	1530	54248	54250	54249	244
2539	1533	54252	54252	54252	247
2540	1536	54249	54249	54249	244
2536	1540	54249	54249	54247	242
2535	1545	54251	54250	54251	246
2534	1548	54252	54251	54252	247
2533	1553	54248	54249	54248	243
2532	1603	54247	54247	54249	244
2531	1606	54246	54245	54245	240
2530	1611	54238	54237	54239	234
2529	1614	54263	54265	54264	259
2528	1618	54308	54308	54309	304
2527	1624	54319	54320	54319	314
2526	1627	54274	54275	54274	269
2525	1629	54295	54295	54295	290
2524	1634	54385	54385	54387	382
2524-10	1635	54382	54382	54382	377
2527	1638	54427	54427	54428	423
2522	1645	54465	54465	54465	460

Calibration 5:00

54334 54335 54334

N 54323 W 54324 S 54330 E 54340

2537 BO #16-3

2534 BO # 15-3 16-4

2531 BO 14-3, #15-4, #20-1

2528 BO 13-3 14-4 20-6 19-1

2525 BO 12-3 13-4 18-1 19-6

2524-10 TO Feet East of 2526

2522 BO 17-1 11-3 18-6 12-4

9/26 +16 CDRR

Predicted K peak		3
9/25 Peak K		2
9/25 Aoe K		1

Calibration Station

8:45	54309	54309	54309	
54308	54306	54312	54324	

2521	9:20	54429	54430	54429 +3	438
2520	9.22	54427	54427	54428 +3	446
2519	9:24	54414	54415	54417 +3	434
2518	9:28	54360	54359	54359 +2	378
2517	9:30	54407	54407	54408 +4	497
2516	9:32	54479	54477	54477 +4	498
2515	9:36	54467	54465	54467 +4	487
2514	9:38	54460	54460	54461 +4	480
2513	9:40	54357	54358	54358 +5	379
2513-10	9:42	54357	54357	54357 +5	378
2512	9:45	54340	54340	54342 +5	361
2511		~~[illegible]~~		53993	
2511	949	53852	53779	~~[illegible]~~ +4	
-	951.5	54553			
-	952	54595			
-	952.5	54416			
-	953.0	54350			
-	953.5	54384			
-	954	54138			
-	954.5	~~54464~~ ~~54502~~	54481		
-	945	54001			
-	945.5	54271			
-					

2519 BO 11-4 17-6 SH 301-3 201-1

2516 SH 202-3 201-4 302-1 301-1

2513 SH 302-6 202-4 303-1 203-3

2513-10 10 feet East of 2513

✓ 9/26

			+16			COER
	2511	1008	54339	54339	54339 +8	363
	2510	1010	54287	54287	54287 +8	313
	Calibration					
	11:00		54296	54296	54296	
			N 54294	W 54294	S 54298	E 54307
2501	1118		54313	54316	54316	345
2502	1125		54288	54287	54287	316
2503	1128		54369	54369	54369	398
2503-10	1130		54375	54374	54375	404
2504	1131		54431	54428	54425	
	11:32		54424			
	1132.5		54427			
	1133		54422			
	1133.5		54430			
	1134		54425			
	1134.5		54423			
	1135		54429			
	1135.5		54416			
	1136		54415			
	1136.5		54417			446
2505	1140		54383	54384	54384	415
2506	1143		54381	54381	54381	410
2507	1146		54445	54445	54445	474
2508	1149		54360	54362	54362	391
2508-10	1151		54365	54365	54365	394
2509	1154		~~54302~~	54303	54301	391

2510 SH 204-4 203-3
304-1 303-1

2501 SH 206-4 306-6

2503-10 10 feet East of 2503

2504 SH 206-3 205-4
306-1 305-6

2507 SH 205-3 204-4
305-1 304-6

2508-10 10 feet West of 2508

9/26 +16 corr

1.5510	1200	54259	54259	54260	288
1.5509	1206	54322	54323	54323	352
1.5508	1211	54370	54370	54370	397
1.5507	1215	54421	54421	54422	450
1.5506	1218	54393	54393	54392	423
1.5505	1223	54435	54435	54436	464
1.5504	1226	54406	54405	54406	435
1.5503	1228	54336	54337	54336	365
1.5502	1231	54273	54272	54272	301
		~~54290~~	54		
1.5501	1234	54298	54297	54297	326
1.5511	1310	54299	54300	54300	329
1.5512	1314	54267	54267	54268	290
1.5513	1318	54310	54310	54309	339
1.5514	1321	54317	54317	54316	346
1.5515	1325	54369	54370	54369	398
1.5516	1328	54404	54402	54404	433
1.5517	1330	54381	54381	54381	410
1.5518	1334	54249	54348	54349	378
1.5519	1348	54315	54314	54315	344
1.5520	1350	54280	54282	54280	309
1.5521	1353	54272	54273	54274	302
	1400				

Calibration 2:00 pm

49292	49294	49294	
N 94292	W 94291	E 94295	S 94 301

1.5534					
~~542~~	1505	54223	54221	54221	238
1.5535	1510	54220	54220	54220	236
1.5536	1513	54220	54221	54220	236
1.5537	1517	54223	54223	54222	239
1.5538	1521	54224	54225	54225	241
1.5539	1524	54224	54224	54224	240
1.5540	1526	54222	54224	54224	240
		54216			
1.5533	1540		54216	54216	232
1.5532	1543	54225	54226	54224	241
1.5531	1546	54227	54227	54227	243
1.5530	1550	54256	54256	54256	272

9/26 +16 CORR

034	1603	54203	54203	54202 +5		223
035	1610	54236	54236	54238 +1		258
036	1613	54229	54230	54229 +4		249
037	1616	54238	54238	54236 +4		256
038	1621	54236	54236	54236 +3		255
039	1624	54235	54237	54236 +3		255
040	1626	54235	54235	54234 +2		253

.5540	1633	54247	54248	54247		264
.5539	1635	54240	54240	54240		256
.5538	1639	54234	54237	54234		250
.5537	1644	54229	54230	54231		247
.5536	1647	54231	54232	54231		246
.5535	1649	54229	54230	54230		245
.5534	1651	54226	54226	54226		240

Calibration
500gm

		54312	54311	54312
	N 54310	W 54310	S 54313	E 54325

034	BO	11 6/15 5/16	3/1 4/6
037	BO	4/16 5	3/1 4
040	BO	4-3	

9/27 +2 CORR

9/27	Max - K - 2				
9/26	Peak	K -3			
9/26	Ave	K - 2.			
	Calibration	8:45			
		54319	54319	54318	
		54314	54312	54313	54330
1.5522	9:00	54367	54369	54369 +1	472
1.5523	9:05	54356	54356	54357 +1	359
1.5522-10	9:10	54496	54494	54494 +1	497
1.5524	9:14	54376	54376	54377 +2	380
1.5525	9:17	54296	54294	54296 +2	300
1.5525-10	9:19	54298	54299	54298 +2	302
1.5526	9:21	54315	54315	54314 +2	319
1.5527	9:25	54333	54331	54332 +2	336
1.5528	9:28	54302	54304	54302 +3	307
1.5529	9:31	54416	54413	54415 +3	420
.5533	9:44	54211	54211	54212 +4	217
.5532	9:47	54324	54323	54324 +4	330
.5532-10	9:49	54342	54343	54344 +4	349
.5531	9:51	54254	54254	54252 +4	260
.5531-10	9:55	54257	54257	54258 +4	263
.5530	9:58	54270	54270	54270 +5	277
.5529	10:03	54276	54273	54274 +5	281
.5528	10:06	54256	54256	54256 +5	263
.5527	10:10	54293	54293	54293 +6	300
.5526	10:12	54285	54286	54286 +6	294
.5525	10:25	54368	54367	54367 +7	376
.5525-25	10:27	54365	54366	54366 +7	375

1.5522-10 10 feet East of 1.5522

1.5525-10 10 feet West of 1.5525

.5532-10 10 feet East of 0.5532

.5531-10 10 feet East of 0.5531

.5525-25 25 feet East of .5525-25

9/27

			+2			CORR
5524	10:30	54335	54334	54335	+7	344
5523	10:33	54284	54283	54281	+7	292
5522	10:38	54267	54266	54267	+7	276
5521	10:40	54310	54311	54310	+7	319
5520	10:43	54306	54306	54306	+2	316
5519	10:46	54304	54304	54303	+8	314
	Calibration	11:00				
	54309	54310	54310		+9	
		N 54305	54305	S 54310		E 54315
5518	1112	54309	54309	54308	9	320
5517	1118	54368	54369	54368	9	379
5516	1120	54322	54322	54322	9	333
5515	1123	54398	54399	54399	9	410
5515-10	1125	54391	54392	54392	9	403
5514	1127	54345	54345	54345	9	356
5513	1130	54286	54286	54288	9	297
5512	1133	54279	54278	54278	9	289
5511	1135	54313	54313	54314	9	324
5510	1138	54321	54321	54322	9	332
5509	1140	54306	54308	54309	9	319
5508	1143	54303	54305	54305	9	316
5507	1147	54319	54316	54316	9	327
5506	1149	54314	54315	54314	9	325
5505	1152	54324	54324	54325	9	335
5504	1154	54334	54334	54333	9	345
5503	1156	54363	54364	54362	9	374
5502	1200	54313	54313	54313	9	324
5501	1204	54302	54302	54303	9	313

5515-10 10 Feet East of 5515

9/27

			+2		CORR
0001	1212	54355	54352	54352	363
0002	1215	54306	54306	54305	316
0003	1217	54313	54312	54312	323
0004	1220	54355	54357	54358	369
0005	1223	54341	54340	54342	352
0006	1225	54330	54329	54328	338
0007	1227	54472	54474	54471	481
0008	1232	54316	54317	54317	327
0009	1235	54290	54289	54287	297
0010	1237	54272	54271	54269	279
0011	1241	54276	54276	54276	286
0012	1244	54284	54285	54285	295
0013	1245	54267	54269	54269	279
0014	1250	54276	54276	54275	285
0015	1253	54290	54290	54290	300
0016	1255	54216	54218	54217	227
0016-10	1200	54282	54282	54282	292
0017	1305	54279	54279	54279 +8	289
0018	1310	54288	54288	54287 +8	297
0019	1313	54303	54303	54304 +8	314
0020	1317	54296	54298	54298 +8	308
0021	1321	54293	54293	54293 +8	303
0022	1324	54292	54292	54291 +8	301
0023	1328	54321	54320	54319 +8	329
0024	1331	54338	54337	54337 +8	347
0025	1334	54353	54353	54352 +8	362

Calibration 2:00 1405

54311 54311 54312

N 54311 W 54309 E 54311 S 54314

0001 SH 106-4 206-6

0004 —

0007 SH 205-3 104-4, 205-1 204-6

0010 SH 104-3 204-1 103-4 203-6

0013 SH 103-3, 102-4, 203-1 202-6

0016 SH 1/2-5, 202-1 101-4 201-6

0016-10 10 Feet West of 0016

0019 SH 201-1 101-3 BO F_{11}^{10} $F_{?}^{4}$

0022 BO $\frac{10}{11}\frac{9}{12}$ $\frac{3}{1}\frac{4}{6}$

0025 BO 13-6, 14-1 9-3, 8-4

9/27 +2 STARS NEW CORR

0026	1410	54290	54290	54291	+8	301
0027	1414	54265	54266	54266	+7	275
0028	1420	54349	54350	54350	+7	359
0028-10	1423	54338	54338	54337	+7	346
0029	1426	54346	54345	54345	+7	344
0030	1430	54304	54304	54304	+6	312
0031	1433	54207	54206	54206	+6	214
0031-10	1435	54217	54218	54219	+6	227
032	1440	54216	54219	54217	+6	225
033	1443	54217	54218	54218	+6	226

~~.5N34~~	~~1450~~	~~54224~~	~~54225~~	~~54225~~		
.5N35	1455	54222	54222	54222	+5	229
✓ .5N36	1500	54219	54221	54222	+5	229
.5N37	1504	54252	54253	54253	+5	260
.5N38	1511	54249	54250	54250	+4	256
.5N39	1515	54256	54256	54256	+4	262
.5N40	1518	54289	54290	54290	+4	296

✓ 1.5 N40	1528	54500	54501	54501	+3	506

0028 BO 8|7 / 13|44 3|4 / 1|6

0028-10 10 feet West 0028

0031-10 10 feet West of 0031

0031 BO 7|6 / 14|15 3|4 / 1|6

9/27 +2 CORR

2N40	1535	54067	54066	54066 +3	71
2N39	1540	54298	54300	54301 +3	306
2N39-10	1541	54292	54293	54294 +3	299
2N38	1545	54299	54301	54300 +3	305
2N37	1548	54261	54254	54260 +2	264
2N36	1552	54241	54241	54241 +2	245
2N35	1554	54243	54242	54244 +2	248
2N34	1557	54255	54255	54254 +2	258
2N33	1600	54235	54236	54236 +2	240
2N32	1604	54236	54235	54234 +1	237
2N31	1606	54235	54235	54237 +1	240
2N30	1610	54229	54231	54230 +1	233
2N29	1612	54220	54219	54220 +1	223
2N28	1615	54220	54222	54221 +1	224
2N27	1618	54228	54226	54228 +1	231
2N26	1620	54226	54226	54225 +1	228
2N25	1623	54227	54228	54226 0	228
2N24	1626	54230	54229	54229 0	231
2N23	1628	54235	54238	54238 0	240
2N22	1630	54232	54232	54231 0	234
2N21	1633	54245	54246	54245 0	247
2N20	1635	54244	54245	54246 -1	246
2N19	1638	54231	54230	54231 -1	232

Calibration 5:00 1655

54321 54320 54321

N 54317 W 54314 S 54321 E 54324

2N40 Rock Monument

2N39-10 10 feet East of 2N39

2N37 BO 5-1, 4-6, SH 2-3 1-4

2N34 BO 6-6 5-1 SH - 2-4 3-3

2N31 BO 7-1 6-6 SH 3-4, 4-3

2N28 BO 8-1, 7-6, SH 1-5, 4-4

2N25 BO 8-6, 9-1
SH 5-4, 1-3

2N22
BO 9-6, 10-1 SH 6-3, 7-4

2N19 DO 10-6 - SH 101-1, 7-4, 8-3

9/28

QUEST. + [illegible] +5

NO DIURNAL CORR?

K — 3

9/27 Ave K 3

9/27 Peak K 4 (6-9) GMT

13:35, 6:35

Calibration

	8:45	54316	54316	54317	
		N 54314	W 54313	S 54316	E 54319
1.5N37	9:35	54241	54240	54242	246
1.5N38	9:37	54248	54248	54249	253
1.5N39	9:40	54309	54309	54308	314
1.5N39-10	9:41	54312	54311	54310	316
1.5N36	945	54235	54235	54235	240
1.5N36	953	54245	54245	54245	250
~~1.5N34~~	~~9:56~~ 956	~~54231~~ 54231	~~54231~~ 54231	~~54230~~ 54231	236
1.5N33	9:59	54234	54235	54235	240
1.5N32	1001	54225	54226	54226	231
1.5N31	1010	54220	54221	54220	225
1.5N30	1011	54203	54203	54203	208
1.5N29	1014	54195	54194	54194	199
1.5N28	1015	54196	54196	54195	201
1.5N27	1018	54191	54191	54188	196
1.5N26	1021	54211	54210	54212	216
1.5N25	1024	54220	54219	54219	224

Based on 8:45 read. = +5 datum corr.

1.5N39-10 10 feet East of 1.5N39

9/28 Bat 10 Blinks
Sig 4 Blinks
Location .5 25

10:34	54369
1034.5	54328
1035	53700
1035.5	54169
1036	54156
1036.5	54100
1037.0	54525
1037.5	54000
1038	54135
1038.5	54258
1039	54073
1039.5	54154
1040	54536
1040.5	54202
1041.	54025
1041.5	54542
1042	53805
1042.5	54475
1043	54347
1043.5	54101
1044	53953
1044.5	54050
1045	54491
1045.5	54113

9/28 Calibration Hi

10.50	93935
10.50.5	54242
51	53844
51.5	54082
52	54228
52.5	54116
53	54184
53.5	54105
54	54129
54.5	54085
55	54178
55.5	54524
56	53985
56.5	54254
57	53919
57.5	54354
58	54076
58.5	54142
59	54202
59.5	54235
110	54188

9/28 Calibration

1127	54339
1127.5	53975
1128.	54133
1128.5	54322
1129	54844
1129.5	54076
1130	54250
1130.5	54032
1131.	54099
1131.5	53815
~~1132~~	

65-1 Flas.

• 9/30 +6

CORR

Predicted K Factor

9/30	Max	1
9/28	Peak	3 ((4) 9-12), 15-18
9/28	Ave	2

New GeoMetrics G. 816 Magnetometer

	1100	54306	54306	54306	
		54305	54305	54306	54308
.5N25	1130	54308	54309	54309	315
.5N24	1134	54296	54294	54295	300
.5N23	1136	54302	54301	54301	307
.5N22	1139	54300	54300	54301	306
.5N21	1142	54321	54320	54320	326
.5N20	1145	54298	54298	54299	304
.5N19	1147	54304	54304	54306	310
.5N18	1150	54309	54307	54309	315
.5N17	1153	54393	54392	54393	399
.5N17-10	1154	54396	54397	54396	402
.5N16	1156	54303	54303	54302	309
.5N16-10	1158	54303	54303	54303	309
.5N15	1201	54313	54311	54311	317
.5N14	1205	54304	54304	54305	310
.5N13	1207	54280	54282	54282	288
.5N12	1209	54288	54288	54287	294
.5N11	1211	54289	54287	54286	293
.5N10	1213	54224	54222	54222	228
.5N10-10	1215	54223	54222	54222	228
.5N09	1216	54238	54238	54239	244
.5N08	1218	54285	54286	54285	291
.5N07	1221	54333	54332	54332	338

.5N17-10 10 Feet East of .5N17

.5N16-10 10 Feet East of .5N16

.5N10-10 10 Feet East of .5N10

From 11:00 → 2:00 NO DIURNAL

• 9/30

			+6		CORR
.5N06	1218	54330	54328	54329	334
.5N05	1223	54316	54316	54315	322
.5N04	1230	54316	54316	54316	322
.5N03	1232	54325	54326	54325	331
.5N02	1234	54348	54349	54349	355
.5N01	1236	54363	54361	54362	368
2N01	1250	54279	54278	54277	283
2N02	1252	54301	54300	54301	307
2N03	1253	54263	54262	54263	269
2N04	1255	54221	54221	54221	227
2N05	1258	54232	54232	54232	238
2N06	1259	54248	54249	54250	255
2N07	1300	54225	54226	54226	232
2N08	1304	54265	54267	54268	273
2N09	1306	54258	54257	54257	263
2N10	1308	54237	54236	54235	242
2N11	1311	54253	54253	54252	259
2N12	1313	54278	54278	54279	284
2N13	1314	54296	54296	54296	302
2N14	1317	54301	54300	54302	307
2N15	1319	54246	54245	54247	252
2N16	1321	54220	54221	54220	226
2N17	1325	54231	54231	54232	237
2N18	1327	54222	54221	54221	227

NO DIURNAL FROM 11 → 2:00

2N01

2N04 SH 13/12 | 116/115 — 3/4 | 1/6

2N07 SH 13/11 | 105/104 — 3/4 | 1/6

2N10 SH 14/10 | 104/103 — 3/4 | 1/6

2N13 SH 10/9 | 103/102 — 3/4 | 1/6

2N16 SH 9/8 | 102/101 — 3/4 | 1/6

Re Occupied Point

			+6		CORR
1.5N19	1331	54228	54229	54229	235
1.5N20	1334	54250	54249	54250	256
.5N21	1336	54254	54255	54256	261
1.5N22	1339	54234	54240	54234	245
1.5N23	1341	54223	54222	54223	229
1.5N24	1345	54211	54211	54216	217
		~~54230~~			

Calibration

2:00 1400 54306 54305 54305

N 54307 W 54307 S 54307 E 54311

	1451	54222	54221	54223	.5N34	→ 228
	1454	54195	54196	54196	.5N33	− 202
	1456	54200	54201	54200	.5N32	− 206
	1459	54198	54197	54197	.5N31	− 203
	1515	54256	54256	54256	.5N30	− 262
	1519	54373	54373	54373	.5N29	− 379
	1521	54375	54375	54374	.5N29-10	− 381
	1524	54352	54353	54353	.5N28	− 359
.5N27	1530	54302	54303	54303		309 ←
.5N26	1533	54388	54389	54388		394 ←

NO DIURNAL

.5N29-10 10 Feet East of .5N27

10/1 +7 CORR

10/1 peak Factor - <2 map
9/30 K peak. 1
K Ave. <1.0

	8:40	54314	54316	54315		
		N 54316	W 54316	S 54318	E 54321	
1.5N25	852	54219	54218	54219	0	226
1.5N24	859	54229	54228	54229	0	236
1.5N23	902	54251	54252	54250	0	258
1.5N22	906	54273	54271	54271	0	278
1.5N21	908	54261	54260	54261	-1	267
1.5N20	910	54261	54260	54261	-1	267
1.5N19	915	54242	54241	54243	-1	248
1.5N18	917	54256	54255	54255	-1	261
1.5N17	918	54323	54323	54324	-1	329
1.5N16	921	54336	54336	54335	-1	342
1.5N15	924	54322	54322	54322	-1	328
1.5N14	926	54303	54303	54303	-1	309
1.5N13	928	54298	54297	54298	-1	304
1.5N12	930	54269	54269	54268	-1	275
1.5N11	932	54270	54270	54271	-1	276
1.5N10	934	54273	54272	54273	-1	279
1.5N09	936	54261	54261	54262	-1	267
1.5N08	938	54256	54255	54255	-1	261
1.5N07	939	54300	54300	54300	-1	306
1.5N06	942	54291	54290	54291	-1	297
1.5N05	944	54290	54290	54291	-1	296
1.5N04	945	54308	54307	54309	-1	314
1.5N03	947	54312	54313	54313	-1	319
1.5N02	948	54322	54320	54320	-2	325
1.5N01	951	54292	54292	54292	-2	297

10/1			+7			CORR
3N01	956	54271	54272	54272	-2	277
3N02	954	54238	54239	54239	-2	244
3N03	1000	54258	54257	54257	-2	262
3N04	1002	54230	54229	54230	-2	235
3N05	1004	54245	54244	54244	-2	249
3N06	1006	54255	54253	54253	-2	258
3N07	1008	54251	54252	54251	-2	256
3N08	1010	54257	54256	54257	-2	262
3N09	1012	54258	54258	54258	-2	263
3N10	1014	54254	54254	54254	-2	259
3N11	1016	54242	54242	54242	-2	247
3N12	1018	54230	54230	54230	-2	235
3N13	1019	54230	54229	54230	-2	235
3N14	1021	54220	54219	54219	-2	224
3N15	1023	54227	54226	54226	-2	231
3N16	1024	54236	54237	54236	-3	240
3N17	1026	54247	54247	54247	-3	251
3N18	1028	54231	54231	54232	-3	235
3N19	1029	54244	54245	54243	-3	248
3N20	1032	54242	54243	54243	-3	247
3N21	1035	54248	54247	54249	-3	252
	Calibration					
1100		54319	54320	54319		
		N 54316	W 54316	S 54319	E 54323	
3N22	1121	54258	54259	54259	-3	263
3N23	1124	54248	54248	54247	-3	252
3N24	1126	54247	54247	54246	-3	251
3N25	1128	54250	54249	54249	-3	253
3N26	1131	54238	54238	54237	-3	242
3N27	1133	54247	54246	54247	-3	251
3N28	1134	54236	54235	54234	-3	239

3N01 SH 13-5

3N04 SH 13-2 12-5

3N07 SH 11-5 12-2

3N10 SH 10-5 11-2

3N13 SH 9-5 10-2

3N16 SH 9-2 8-5

3N19 SH 7-5 8-2

3N22 SH 6-5 7-2

3N25 SH 6-2 5-5

3N28 SH 5-2 4-5

10/1			+7			CORR
3N29	1138	54274	54273	54275	-3	278
3N30	1140	54248	54247	54248	-3	252
3N31	1143	54230	54232	54232	-2	237
3N32	1147	54237	54237	54237	-2	242
3N33	1151	54274	54274	54274	-2	279
3N34	1155	54266	54266	54266	-2	271
3N35	1200	54272	54272	54271	-2	277
3N36	1204	54405	54405	54405	-2	410
3N36-15	1205	54506	54506	54506		511
3N37	1209	54438	54437	54438	-2	443
3N38	1213	54271	54270	54270	-1	276
3N38-10	1215	54292	54290	54289	-1	296
3N39	1218	54350	54350	54350	-1	356
3N40	1222	54481	54481	54481	-1	487
4N40	1247	54040	54040	54041	0	47
4N39	1250	54160	54160	54161	0	168
4N38	1255	54243	54243	54244	0	250
4N37	1258	54170	54171	54172	0	178
4N36	1303	54242	54242	54242	+1	250
4N35	1306	54185	54187	54187	+1	195
4N34	1310	54398	54396	54397	+1	405
4N34-10	1312	54395	54393	54394	+1	402
4N33	1315	54360	54359	54360	+1	368
4N32	1317	54310	54310	54310	+1	318
4N31	1319	54278	54278	54278	+1	286
4N30	1322	54282	54283	54282	+1	290
4N29	1324	54292	54294	54293	+1	301
4N28	1326	54278	54279	54278	+1	286
4N27	1330	54235	54237	54238	+2	246
4N26	1332	54250	54249	54250	+2	259

3N31 SH 4-2 3-5

3N34 No Marker

3N36-15 15 Feet West of 3N36

3N38-10 10 Feet West of 3N38

4N-40 SH #1-1

4N37 SH #1-6, 2-1

4N34 SH 2-6 3-1

4N34-10 10 Feet East of 4N34

4N31 SH 3-6 4-1

4N28 SH 4-6 - 5-1

10/1/75 Calibration +7 CORR

2:00	1400	54312	54312	54311		
		N 54311	W 54314	S 54310	E 54316	
4N25	1444	54319	54320	54320	+3	330
4N24	1448	54343	54343	54343	+3	353
4N23	1451	54222	54222	54222	+3	232
4N23-15	1453	54300	54301	54301	+3	311
4N22	1455	54328	54326	54326	+3	336
4N21	1458	54397	54399	54398	+3	408
4N20	1500	54337	54336	54335	+3	346
4N17	1503	54322	54322	54323	+3	332
4N18	1505	54294	54294	54293	+3	304
4N17	1508	54273	54272	54273	+3	283
4N16	1509	54276	54277	54277	+3	287
4N15	1512	54262	54263	54262	+3	272
4N14	1514	54279	54279	54280	+3	289
4N13	1516	54296	54296	54295	+3	306
4N12	1519	54305	54305	54305	+3	315
4N11	1521	54297	54297	54297	+3	307
4N10	1523	54269	54270	54268	+3	279
4N09	1527	54267	54268	54268	+3	278
4N08	1530	54247	54246	54246	+3	256
4N07	1532	54252	54253	54253	+3	243
4N06	1534	54214	54213	54213	+2	222
4N05	1536	54285	54286	54285	+2	294
4N04	1539	54290	54289	54289	+2	298
4N03	1544	54598	54598	54600	+2	607
4N03-10	1545	54371	54371	54370	+2	380
4N02	1548	54153	54152	54154	+2	162
4N02-10	1549	54188	54187	54188	+2	197
4N01	1551	54150	54148	54147	+2	157
	3:51					

4N25 SH 5-6 6-1

4N23-15 15 Feet East of 4N23

4N22 SH 6-6 7-1

4N14 SH 7-6 8-1

4N16 SH 8-6 9-1

4N13 SH 9-6 10-1

4N10 SH 10-6 11-1

4N07 SH 11-6 12-1

~~4N06 SH~~

4N04 12-6 13-1

4N03-10 10 Feet East of 4N03

4N02-10 10 Feet East of 4N02

4N01 13-6

10/2/75 Calibration 5.00 1707 -15 CORR

		N	W	S	E		
		54314	54313 / 54312	54314	54315 / 54312		
		9:22					
3S	31	9:20	54220	220	220	-1	204
	30	9:25	231	231	230	-1	215
	29	9:34 / 9:27	228 / 235	228 / 235	228 / 235	-1	219
	28	9:32	232	231	231	-1	215
	27	9:37	285	286	286	-1	270
	26	9:39	448	446	447	-1	431
	25	9:44	363	363		-1	347
	24	9:45	330	329	330	-1	314
	23	9:47	333	332	332	-1	316
	22	9:49	404	403	404	-1	388
	21	9:51	427	427		-1	411
	20	9:53	518	517	519	-1	502
	19	9:54	602	601	602	-1	586
	18	9:56	421	423	422	-2	406
	17	9:57	365	365		-2	348
	16	9:59	366	367	364	-2	349
3S	15	10:06	382	382		-2	365
	14	10:09	395	396	395	-2	378
	13	10:10	414	413	414	-2	397
	12	10:12	421	425	425	-2	408
	11	10:14	355	355		-2	338
	10	10:15	281	281	280	-2	264
	9	10:17	256	256		-2	239
	8	10:19	270	272	272	-2	255
	7	10:20	283	283		-2	266
	6	10:22	279	280	280	-2	263
	5	10:24	309	310	310	-2	293
	4	10:25	373	372	371	-2	355
3S	3	10:27	386	388	388	-2	371

FORECAST <2
AVG FOR 10/1/ = 1.0 w/ Peak of 2

8:45 CALIB. ON NEXT PAGE →

35-31 = 8.0. ~~28-5~~ 22-5 21-5

→ 100' N

→ 100' N

→ BO 20-5 19-2

→ 50' S too much

→ BO 18-1 19-6

→ BO 17-1 18-6

→ BO 17-5

→ SH 302-5 303-2

→ SH 303-5 304-2

→ SH 304-5 305-2

→ 305-5 306-2 SH

10/2/75

Calibration 1945

8:45 Old Mag 54323, 54324, 54323
New Mag 54314, 54314, 54314

				-15		-15 CORR
35	2	10:29	54364	364	-3	346
35	1	10:31	339	338	338 -3	320
------				- - -	- - -	
45	1	10:47	284	284	-3	266
	2	10:52	272	274	276 -3	258
	3	10:54	267	269	270 -3	252
	4	10:55	282	280	281 -3	263
	5	10:57	267	267	-3	249
	6	10:59	270	269	269 -3	251
	7	11:01	359	359	-3	341
	8	11:03	539	539	-4	520
	9	11:06	710	713	713 -4	694
	10	11:09	737	737	-3	719
	11	11:11	730	730	-3	712
45	12	11:14	615	616	616 -2	599
	13	11:16	523	523	-2	506
	14	11:18	440	439	440 -2	423
	15	11:20	344	343	344 -2	327
	16	11:22	370	371	371 -1	355
	17	11:25	503	503	-1	487
	18	11:26	511	512	512 -1	496
	19	11:29	460	459	460 0	445
	20	11:34	382	381	382 +1	368
	21	11:37	300	300	+1	286
	22	11:39	243	242	243 +1	229
	23	11:41	244	245	245 +1	231
	24	11:43	236	236	+2	223
45	25	11:45	232	231	232 +2	219

11:00 BARNEY 54328 -327- 326

→ SN 306-5

→ SN 306-6

POLE BROKE - HAND HELD NOW

→ SN 305-4 306-3

→ SN 304-4 305-3

→ FLOAT IS SS OR VOL. Nearly Dry Gray

→ 303-4 304-3

ANOTHER HILL

→ 302-4 303-1 (?) TOP OF HILL

COMING DOWN EAST SLOPE STEEP

→ 301-4 302-3 VALLEY

WEST SLOPE

→ BO 17-4

→ BO 18-4 17-3

→ BO 18-5 19-4

							-15	CORR
4S	26	11:48	54	228	228		+3	216
	27	11:51		227	227		+3	215
	28	11:54		236	236		+3	224
	29	11:56		227	228	228	+4	217
	30	12:00		227	229	228	+4	217
	31	12:02		227	227		+4	216
	32	12:04		226	227	227	+5	217
	33	12:06		222	222		+5	212
	34	12:07		224	225	225	+5	215
	35	12:10		221	221		+6	212
	36	12:12		223	224	224	+6	215
	37	12:15		223	222	224	+6	214
	38	12:17		223	223		+7	215
	39	12:20		226	226		+7	218
4S	40	12:22		222	224	223	+8	216
3S	40	12:35		225	227	226	+9	220
	39	12:37		231	231		+10	226
	38	12:38		251	248	249	+10	244
	37	12:40		236	237	237	+10	232
	36	12:42		221	219	221	+10	216
	35	12:44		225	225		+10	220
	34	12:46		228	228		+11	224
	33	12:48		225	224		+11	220
	32	12:50		220	221	221	+12	218
1:00	BASE	NEW		306	307	307		
		QD		309	310	309		
		w/ ROD	OLD	308	306	307		

→ POST NOT MARKED
→ AT RD.

→ B.O. #20 CORNER #3

→ B.O. 21-3 22-4

→ B.O. 22-3
OUT CROP OF LS w/ GOOD JTS CREST OF HILL

→ OUT CROP OF BRECCIA LOOKING MAT

ON N SLOPE

→ B.O. 22-2

→ BO 21-2 22-5

AT RD.

10/3/75

Predicted K max 3 but low reliability

9/2 Peak K = 2 Ave < 1.0

	Calibration	11:00		(+7)	
		54304	54305	54305	
	5501	1127	54236	54234	54236
5502		1131	54233	54234	54233
5503	1134	54238	54237	54236	
5504	1139	54239	54240	54240	+1
5505	1142	54274	54274	54274	
5506	1144	54296	54296	54296	
5507	1147	54354	54353	54354	
5507-10	1150	54351	54353	54352	
5508	1152	54405	54405	54405	+2
5509	1155	54389	54387	54387	
5510	1158	54350	54351	54349	
5511	1201	54333	54334	54334	
5512	1205	54322	54323	54322	
5513	1207	54278	54280	54280	+3
5514	1212	54249	54248	54248	
5515	1215	54259	54260	54259	
5516	1218	54262	54262	54262	
5517	1223	54254	54265	54266	+4
5518	1230	54263	54264	54264	
5519	1234	54248	54248	54250	

Calibration 1:25 pm

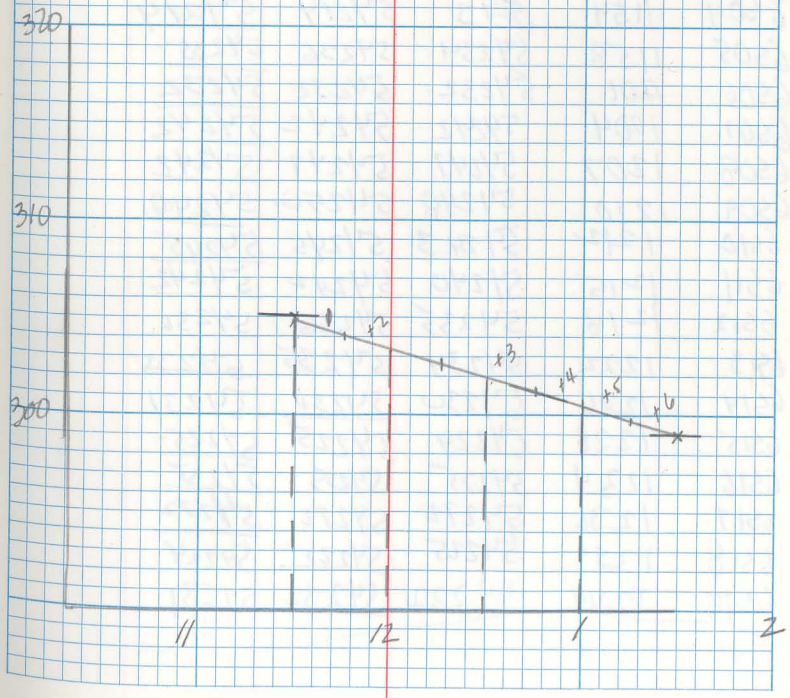
54300 54299 54299

5507-10 10 feet West of 5507

11:30 - 1:30

11:30 - 12:30

12:30 - 1:30



10/12

predicted K Factor max 3.0

Calibration at 8:50

54314 54314 54314

Low Dense Clouds make it impossible to run line 65 or 2.55.

Calibration 11:00 (+2)

54311 54310 54310

6501	1142	54214	54200	54214
6502	1145	54224	54223	54223
6503	1149	54225	54226	54226
6504	1154	54213	54214	54214
6505	1158	54234	54236	54235
6506	201	54232	54232	54232
6507	1204	54242	54242	54242
6508	1207	54247	54247	54242
6509	1210	54248	54250	54249
6510	1212	54243	54245	54245
6511	1215	54240	54242	54242
6512	1218	54235	54236	54236
6513	1222	54234	54235	54235
6514	1226	54230	54230	54231
6515	1228	54224	54225	54225
6516	1234	54235	54235	54235
6517	1236	54272	54272	54272
6518	1239	54225	54225	54224
6519	1244	54232	54232	54231

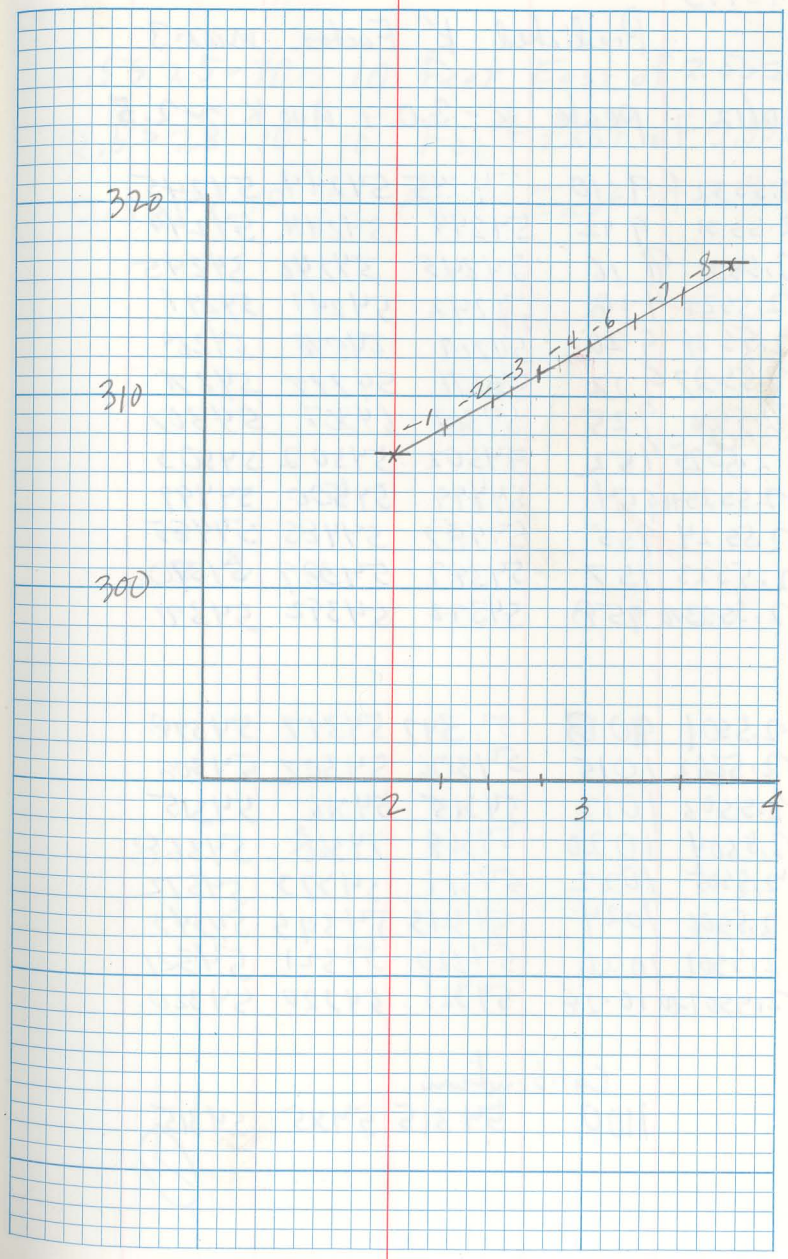
10/12

Calibration 1400 (x6)

		54307	54307	54307	
2.5522	1432	54371	54371	54371	
2.5524	1435	54344	54345	54345	
2.5520	1437	54350	54351	54351	-3
2.5519	1441	54353	54352	54354	
2.5518	1445	54374	54374	54374	
2.5517	1447	54377	54378	54378	
2.5516	1450	54344	54345	54345	
2.5515	1455	54356	54355	54357	-4
2.5514	1457	54325	54325	54325	
2.5513	1459	54288	54288	54288	
2.5512	1503	54295	54296	54296	
2.5511	1504	54319	54320	54320	
2.5510	1505	54329	54329	54329	-6
2.5509	1507	54336	54337	54337	
2.5508	1510	54378	54377	54378	

Calibration 1547

		54316	54317	54317	



10/13

Predicted K Factor max=3

10/12 peak K-3.0 + Avc K ~2.5

2.5532	9:10	54245	54244	54245
2.5531	9:12	54244	54244	54244
2.5530	9:16	54245	54246	54245
2.5529	9:18	54242	54241	54241
2.5528	9:20	54269	54270	54269
2.5527	9:22	54271	54272	54271
2.5526	9:25	54307	54307	54307
2.5525	9:52	54502	54502	54503
2.5525-10	9:54	54499	54500	54499
2.5524	9:55	54487	54485	54485
2.5523	9:57	54389	54389	54390
2.5523-10	9:58	54392	54392	54391

2.5501	10:13	54347	54347	54348
2.5502	1015	54306	54307	54308
2.5503	1017	54315	54316	54315
2.5504	1020	54368	54368	54368
2.5505	1022	54371	54373	54372
2.5506	1024	54343	54345	54345
2.5507	1026	54320	54321	54321
2.5507-10	1028	54321	54320	54320

Calibration

1100	54315	54315	54315

3

2.5525-10 10 Feet East of 2.5525

2.5523-10 10 Feet East of 2.5523

2.5507-10 10 Feet East of 2.5507

279-288 Continue hard siliceous hf from 279-283.5. Pyrite is sparse (<1%) except along seams and fractures. At 283.5 get dike rock. 2-3% disseminated pyrite, bio -> ser., fsp is cloudy and greenish. Mixed contact and mixed w/ hf @ 286. Then get dike to base of interval

288-298 Dike rk w/ chunks of hf floating Fractures @ ~60° to core contain pyrite w/ some molybdenite - minor chalcopyrite. At 290 get siliceous hf again and stay in hf to base of interval @ 298'

298-308 Siliceous hf to 303 then porphyry to bottom of interval. Molybdenite along fractures w/ qtz and some disseminated Pyrite 3-8% disseminated. Bio appears reddish. Wollastonite? as white sprays (uncommon)

308-317 Siliceous porphyry w/ some fresh bio (mostly) and some altered to ser. 1-5% pyrite. At 313.5 get siliceous hf w/ pyrite abundant along seams and bedding - minor molybdenite along qtz-pyrite veinlets

317-326 Continued sil hf to bottom of interval. As above w/ qtz-moly seams - sparse.

326-336 Continue hard sil. hf to bottom of interval. 5" white qtz vein @ 335'

136
Item 32

3680 0032 0294

DDH SH-2
LOG

DIETZGEN

FIELD BOOK

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DDH SH-2

collared 12-12-75
completed

0-20 Overburden - rotary

20-27 Mixed soil material

27-34 Weathered, oxidized med-coarse grained quartz monzonite - alteration not significant Minor goethite along grain boundaries

34-43^5 Continued QM. Prominent gouge @ 15-20° to core 35-37. Completely oxidized - lt yellow limonite > blk limonite. Some hematitic material. Low fracture intensity (<5/ft) w/ fractures @ ~40° to the core

43^5-51 QM w/ gouge or intensely broken rock 43^5 to 47. Oxidized as above. Some biotite appears to be sericitized. Some veining w/

oxidized selvages. Fractures @ 20° and 40° to the core.

51-58 QM as before. Some finer grained x-cutting veins of different? intrusive phase. Disseminated pyrite cubes (<1%) altered to goethite + hematite. Silvery metallic mineral in vein = moly?? Near center of interval the oxidation is more clearly related to fractures. Some fresh pyrite. Fine angular qtz grains in cloudy fsp dominated matrix. Generally finer granularity in this rock. Some pink fsp. Some zones w/abundant hematite

58-64.5 Continued QM. <5 fractures/ft to 62. 5-10/ft from 62-64 Predominantly oxidized, but some fresh pyrite (<1% total FeS_2). Still appears silicified - some sericite after bio. Minor fracturing @ 20° & 40° to core

64.5-73 Continue QM w/ oxidation of sulfides and bio. Some bio → ser. Black MnOx along center of qtz veinlet @ 40-50° to the core. Some plag is rimmed. Light greenish tinge to some fsp @ 72 ft. Intense breaking of core sporadically throughout interval

73-80 Highly broken interval (70% recovery). Continue QM - oxidized.

80-88 Continue QM w/ alteration as above. About 1/2% pyrite - oxidized. Rock intensely broken 80-85.

88-95 Continue QM. Slightly increasing alteration w/ greenish fsp, abundant qtz, & slightly sericitized bio. No increase in sulfides or change in fracturing which is predominantly @ 20-30° to core

95-106 8 ft out of 11 cored. Continue QM intensely broken to 102. Mostly fresh, unoxidized core below 102 w/ disseminated pyrite and very minor chalcopyrite. Pyrite content ~1%. Reduce to NQWL @ 106' from HQ

106-116 Generally finer granularity to intrusion — appears more porphyritic than above. Some garnet as reddish disseminated grains. Still have some rubbly broken zones (111-112, 106-107).

116-126 QM as above except w/ ~5% pyrite and minor, sparse chalcopyrite. Some sericite after bio, particularly adjacent to veinlets. Fracturing 5-10/ft @ 35-55° to the core. Still getting oxidation along fractures

126-136 Definitely get two different intrusive rocks in this interval. One is distinctly porphyritic and finer grained than QM of higher in hole. The porphyry has moly veinlets w/ qtz-sericite selvages Oxidation 132-136 w/ granulation of some intrusive material This interval has 80% QM and 20% QMP

136-146 QM to 138 then QMP to base w/ small patch of QM @ 145^{5}. Garnet-sericite-pyrite-qtz alteration to porphyry. QM is oxidized to 138 and @ 145^{5}. FeOx in remainder is restricted to fractures (generally <5/ft) @ 10° and 30-50° to the core. 3-5% pyrite. Minor molybdenite.

146-156 QMP as above w/ intense alteration - disseminated pyrite + molybdenite

156-165 QMP altered as above. More pyrrhotite than pyrite. Some qtz veinlets @ 30° to core

165-175 Continue altered QMP as above

175-184 Continue QMP as above. Moly & chalco present.

184-194 In general as above — less greenish through this interval

194-203 QMP w/ increased stockwork veining @ 40-60° to the core. There are @ least 3 generations of fracturing

203-212 QMP as immediately above

212-222 Ditto

222-32 Ditto

232-242 Porphyry to 234, then transition zone to 236 where definitely are in sediments. The disposition of bdng relative to fractures in the sediments suggests that the contact of the porphyry dips to the west. Calc-silicate hf w/ px + gar + qtz_2

242-252 Hybrid porphyry-hf zone 242-244, then calc-silicate hf to base of interval (some zones appear to be thin slices of porphyry)

252-262 Calc-silicate hf w/ abundant annealed fractures 5-10 + 10-15/ft. @ 30-60° to the core. Bdng @ 30° to the core

262-273 Broken zone 262-264. Porphyry dike 265-266, then calc-silicate hornfels

273-282.5 Calc-silicate hf w/ indistinct bdng @ 40-50° to the core, Some fracturing as before.

282.5-292 Intensely silicated hf w/5-10% pyrite as pods and disseminations Some coarse calcite veining and calcite-cemented breccia zones Skarn 290-292.

292-301 Skarn from 292-296 then get siliceous hf

301-311 Siliceous hf Bdng @ 50°-60° to the core.

311-320 Siliceous hf to 313. Skarn &/or calc-silicate hf 313-319. Siliceous hf 319-320. Fracturing is minor

320-330 Siliceous hf 320-321.5. Then Skarn + calc-silicate hf to 330. Fracturing is minor but some of rock is vuggy

330-340 Skarn + calc-silicate hf to 333 then siliceous hf to 339, Calc-silicate hf to 340. Fractures filled w/ qtz veinlets 50-70° to the core. Bdng @ 70-80° to the core.

340-350 Hard, siliceous calc-silicate hf Bdng still relatively flat to the core, but most of fracturing (5-10/ft) @ 20-50° to the core. Some zones with garnet

350-359 Mixed intrusive material + calc-silicate hf 357-359. Get hard hf to 357. Minor clots or small pods of garnet in hf section. Bdng @ 50-60° to the core

359-369 Well fractured calc-silicate hf w/ later qtz-py-silicate veinlets. @ 30-50° to the core 5-10 + 10-15 per foot Bdng @ 60-70° to the core. Some Mn dendrites. Some epidote assoc w/ veining and

pods of garnet.

369-379 Decreased fracture intensity to 1-5 or 5-10/ft. Minor dike material in interval 371-372. Annealed breccia zones 377-379 w/garnet + px + minor epidote. Strong, late fracturing @ ~20° to the core. Also @ 5-10° to the core.

379-389 Very broken and then annealed calc-silicate hf. Major fracturing @ 5-10° to the core 381-387. Clots and seams of epi + py - also zones of garnet!? enrichment

389-399 Continued calc-silicate hf w/ pebble breccia 389-392 (silicified chert-pebble zone). Bdng still relatively flat 70-80° to core w/fracturing @ 30-50° and 1-5/ft.

399-409 Calc-silicate hf w/ fracturing as before. Some qtz-py-moly veinlets - secondary K-spar along some.

409-419 Continued calc-silicate hf. Still w/ moly-bearing veinlets. Bdng @ 70° or so to core - most of veinlets @ 30-40° to the core

419-428 Hard, siliceous calc-silicate hf Bdng 60-70° to the core.

428-438 Ditto

438-448 Calc-silicate hf w/ strong fracturing @ 10-20° to the core - coated w/ coarse, white calcite.

448-458 As above - low angle fracturing mostly 456-458

458-467 As above. Fracture intensity 1-5/ft @ 20-60°. Bdng @ 70°-80° to the core

467-477 Calc-silicate hf w/ generally increased fracture intensity to 15-20/ft. Skarn 468-470

477-487 Calc-silicate hf w/ decreased fracture intensity below 481 to 1-5/ft.

487-496 Calc-silicate hf. Small patch of porphyry dike @ 487'. Still have good veinlets w/ moly + py

496-506 Calc-silicate hf Bdng @ 70-80° to the core, fracturing @ 30-60° to the core

506-516 Hard, calc-silicate hf. Fractures 1-5 & 5-10/ft.

516-524 Gouge, calc-silicate hf w/ abundant chloritized fractures throughout interval. Core is quite broken

526-535 Gouge to 528. Then calc-silicate hf to 535. Minor fracturing - hard, siliceous

535-544 Calc-silicate hf w/some moly-bearing veinlets. Increased fracturing from ~1-5/ft to 30-35/ft 542-44

544-554 Hf w/less fracturing

554-564 Ditto

564-574 Ditto w/broken zone @ 573-574

574-584 Calc-silicate hf w/prominent fracturing @ 10° to the core

584-594 Hf to 588 then some interbedded black soft clay material - carbonaceous? Fe ox stained calc-silicate hf to 590-594

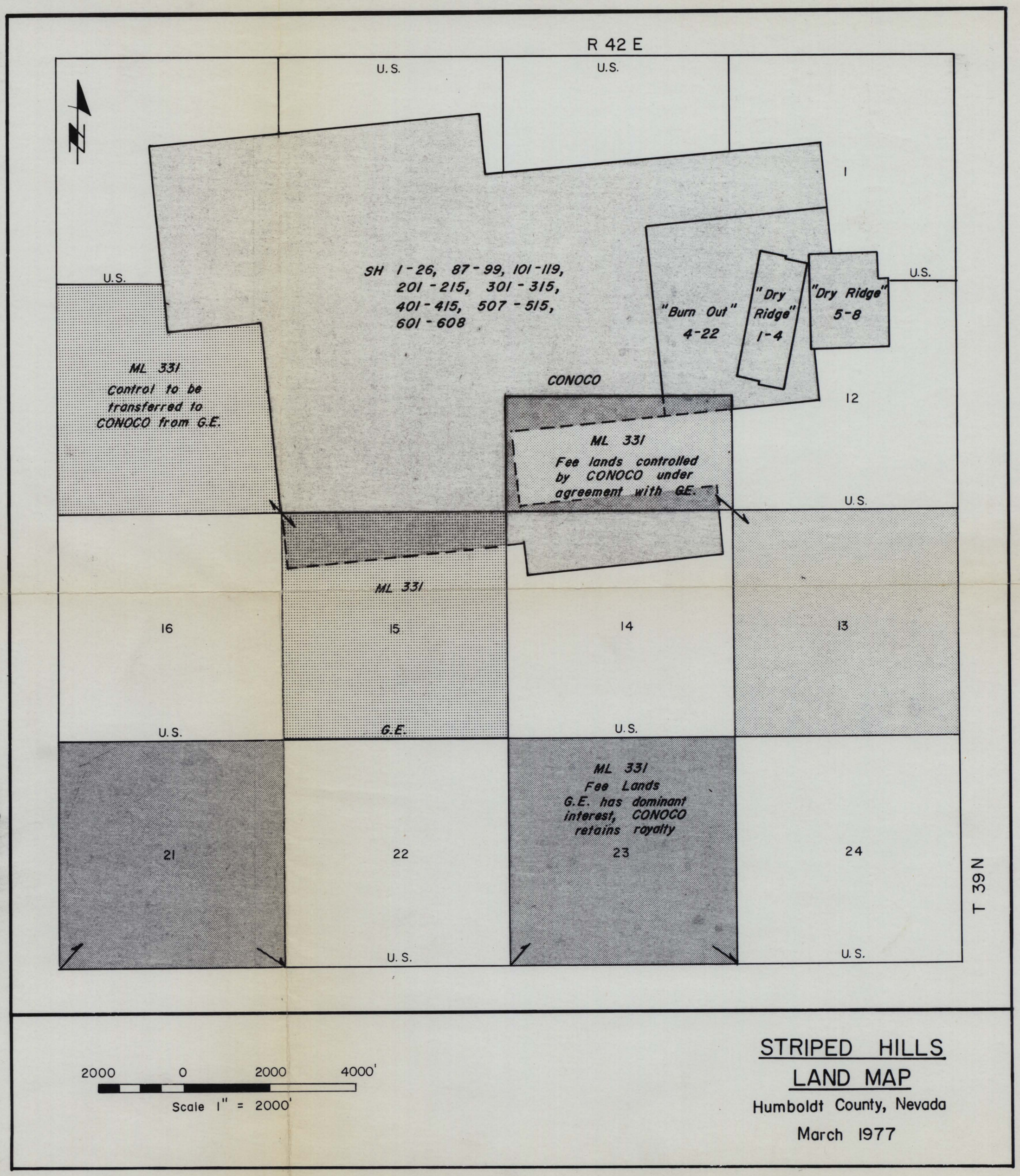
594-599 FeOx stained hf

<< Bottom of hole >>

41620	20-27	Qal	41651	242-52
41621	27-34		41652	252-62
41622	34-43.5		41653	262-73
41623	43.5-51		41654	273-82.5
41624	51-58		41655	282.5-92 Wo3
41625	58-64.5		41656	292-301
41626	64.5-73		41657	301-311
41627	73-80		41658	311-20
41628	80-88		41659	320-30
41629	88-95		41660	330-40
41630	95-106		41661	340-50
41631	106-116		41662	350-59
41632	116-126		41663	359-69
41633	126-136		41664	369-79
41634	136-146		41665	379-89
41635	146-156		41666	389-99
41636	156-165		41667	399-409
41637	165-175		41668	409-19
41644	175-184		41669	419-28
41645	184-94		41670	428-38
41646	194-203		41671	438-48
41647	203-212		41672	448-58
41648	212-222		41673	458-67
41649	222-32		41674	467-77
41650	232-42		41675	477-87

TO ASSAY 1-24-76

487-96	41676
496-506	41677
506-16	41678
516-24	41679
526-35	41680
535-44	41681
544-54	41682
554-64	41683
564-74	41684
574-84	41685
584-94	41686
594-99	41687

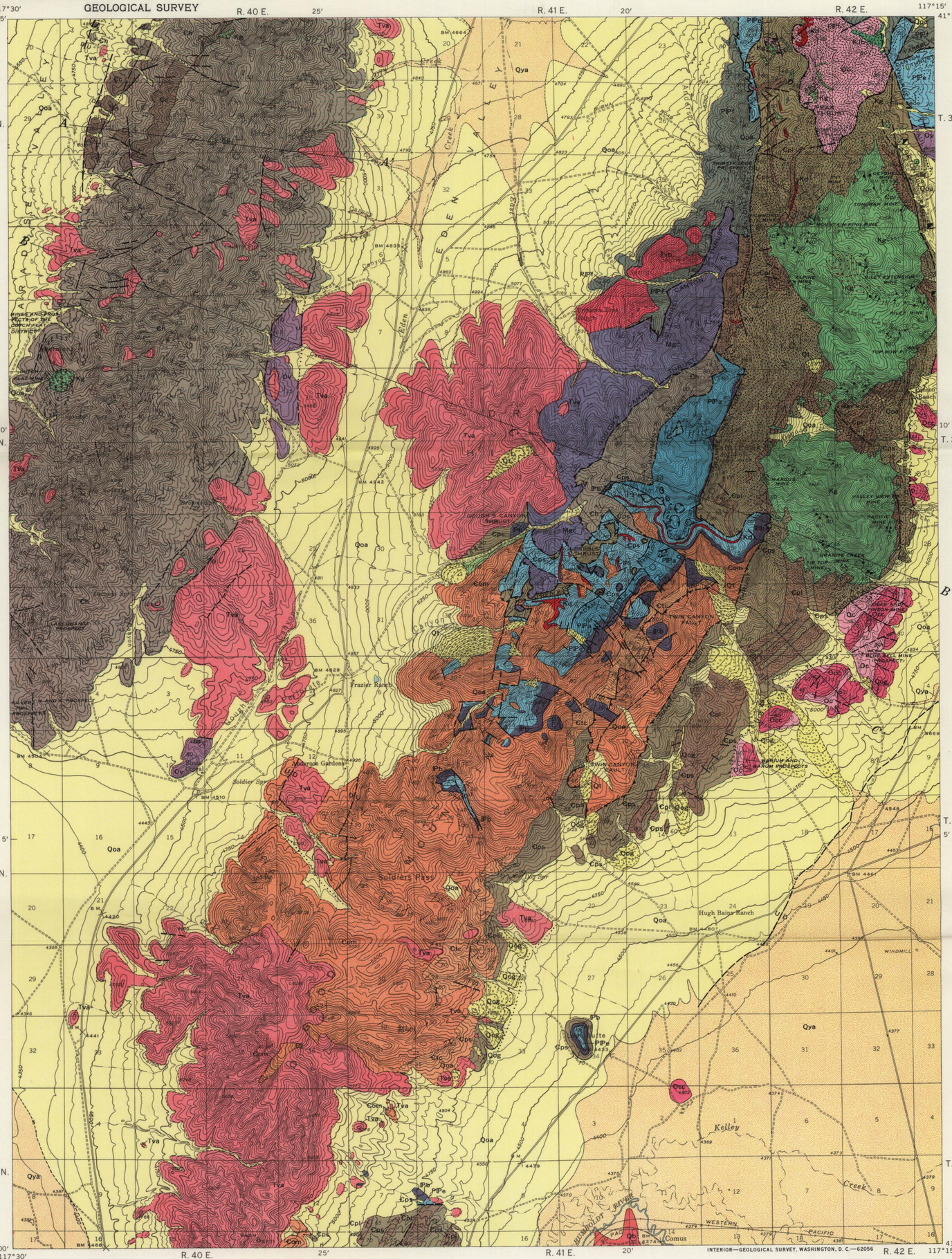


STRIPED HILLS
LAND MAP
Humboldt County, Nevada
March 1977

3680 0032

3680 0032

136 Item 32



Base map by Topographic Division
U.S. Geological Survey, 1945

Geology by P. E. Hotz and
Ronald Willden, 1951–55

EXPLANATION

QUATERNARY

Recent

Qya — **Younger alluvium**
Gravels and interbedded sand along some of the valley bottoms and lower parts of alluvial fans; fine sand, silt, and clay along Humboldt River flood plain

Pleistocene

Qoa — **Older alluvium**
Sand and gravel of alluvial fans and pediment veneers along the fronts of the ranges, incised by Recent drainage channels

Qog | Qt — **Older fan gravel and talus**
Qog, *remnants of slightly older fan gravel on southeast side of Osgood Mountains*
Qt, *talus*

QUATERNARY(?)

Qb — **Olivine basalt**
Olivine basalt near Comus station

TERTIARY

Upper Miocene(?) or lower Pliocene(?)

Tva | Tvb — **Volcanic rocks**
Tva, *chiefly andesite and basaltic andesite flows; underlain by rhyolite tuff at some places*
Tvb, *olivine basalt flows on Soldier Cap and north side of Farrel Canyon*

CRETACEOUS

Upper Cretaceous

Kd — **Dacite porphyry**
Tabular, sheetlike bodies intrusive into Paleozoic sedimentary rocks in Osgood Mountains. Phenocrysts of quartz, altered plagioclase, and chlorite pseudomorphs of biotite and hornblende, in microcrystalline groundmass of sodic plagioclase, orthoclase, quartz, sericite, and chlorite

Kg — **Granodiorite**
(pattern indicates alteration)
Equigranular medium-grained light-gray intrusive rock. Fresh rocks composed of orthoclase (9 - 18 percent), quartz (16 - 29 percent), plagioclase (48 - 59 percent), biotite (4 - 15 percent), hornblende (less than one-half to 7 percent). Where altered tends to be porphyritic; commonly iron stained from weathering of pyrite; plagioclase is albitized and strongly sericitized; chlorite replaces biotite and hornblende. Some small bodies in sec. 24, T. 39 N., R. 41 E. and secs. 19 and 30, T. 39 N., R. 42 E., are quartz diorite

PERMIAN JURASSIC(?) OR CRETACEOUS(?)

Upper Jurassic(?) or Lower Cretaceous(?)

KJb — **Intrusive basalt**
Dike-like body of weakly metamorphosed basalt north end of Osgood Mountains

PENNSYLVANIAN

Upper Pennsylvanian and Lower Permian

PIPf — **Farrel Canyon formation**
Sandstone, with interbedded shale and siltstone (25 percent), chert (50 percent), and andesitic to dacitic volcanic rocks (25 percent). Sandstone is thick bedded, brown, mostly fine grained; some medium grained; locally pebbly. Typically contains megascopic grains of quartz and gray to brown chert fragments. Chert generally well bedded to thin bedded. Volcanic rocks include weakly metamorphosed andesitic flows and dacitic tuffs. Unfossiliferous, stratigraphic position uncertain, but resembles Pumpernickel and Havallah formations of Sonoma Range (Ferguson, Roberts, and Muller, 1952) and Battle Mountain (Roberts, 1951). Tentatively assigned a Pennsylvanian(?) to Permian(?) age

THRUST FAULT, SEQUENCE UNKNOWN

PIPa — **Adam Peak formation**
Chiefly shale, siltstone, dolomitic sandstone, chert, and limestone. Incomplete section west of Adam Peak includes: lower member (850 feet), predominantly shale, siltstone, lenticular limestone, dolomitic sandstone, and shale; middle member (950 feet), interbedded shale and thin-bedded chert, with dark thick-bedded chert in upper 200 feet; upper member (incomplete, 300 feet), fine-grained dolomite and dolomitic sandstone

PIPe — **Etchart limestone**
Predominantly limestone and sandy limestone, some interbedded dolomite, calcareous shale, and lenticular beds of pebble conglomerate. Lithology and thickness widely variable. Generally 250 to 300 feet thick in southwest Osgood Mountains; thicker in northern part of range. Includes rocks of Middle Pennsylvanian to Late Pennsylvanian or Early Permian age

Middle Pennsylvanian

IPb — **Battle formation**
Predominantly a poorly bedded boulder conglomerate. At some places upper part composed of pebble conglomerate, coarse sandstone, and interbedded white fine-grained limestone. Minor amounts of red shale and sandstone. Blocks, boulders, and pebbles mainly quartzite derived from Osgood Mountain quartzite. Thickness ranges from 100 to 400 feet

THRUST FAULT, SEQUENCE UNKNOWN

CARBONIFEROUS

MISSISSIPPIAN

Lower and Upper Mississippian

Mgc — **Goughs Canyon formation**
Altered pillow lavas, and coarse volcanic breccias (60 percent); lenticular bodies of coarse- to medium-grained clastic limestone, commonly containing volcanic rock fragments, and locally richly fossiliferous (30 percent); calcareous sandstone, shale, siliceous shale, and chert (10 percent)

THRUST FAULT, SEQUENCE UNKNOWN

ORDOVICIAN

Lower, Middle, and Upper Ordovician

Ov — **Valmy formation**
Mainly chert and siliceous shale, some quartzite, and minor amounts of volcanic rock. Chert ranges from light gray to black, thin-bedded to massive. Siliceous shale is light gray, light-brown, light-green, and commonly occurs as partings between chert layers. Quartzite is light colored, vitreous, pure. Grains are typically rounded to well-rounded, and well sorted. Thin beds of greenish altered sheared volcanic rock associated with chert and shale near Stone Corral; coarse fragmental volcanic rock east of Getchell mine commonly has coarse limestone matrix

THRUST FAULT, SEQUENCE UNKNOWN

UNCONFORMITY

Lower and Middle Ordovician

Oc | Occ — **Comus formation**
Oc, *alternating sequence of dolomite, limestone, and shale, with subordinate chert, siltstone and tuff*
Occ, *carbonate members on southeast side of Osgood Mountains. Incompletely exposed section 3,000 to 4,600 feet thick. Strata on thrust plate at north end of Osgood Mountains metamorphosed to phyllite, calc-silicate rock, marble, and recrystallized chert*

FAULT, SEQUENCE UNKNOWN

CAMBRIAN

Upper Cambrian

Ꞓh — **Harmony formation**
Predominantly feldspathic sandstone, interbedded shale and minor amounts of pebble conglomerate and limestone. Basal red shale 75 to 150 feet thick overlies chert of Late Cambrian age in Hot Springs Range. Estimated exposed thickness of formation 4,000 feet in Hot Springs Range

Ꞓc — **Paradise Valley chert**
Predominantly well bedded gray, brown, and black chert. Light-gray to green and brown siliceous shale occurs as partings between chert layers, and as thin beds. Small lenses and thin beds of fine- to medium-grained, pure to shaly limestone. Base concealed. Exposed thickness 300 to 500 feet

SEQUENCE UNKNOWN

Middle and Upper Cambrian

Ꞓps | Ꞓpl — **Preble formation**
Ꞓps, *greenish-gray to yellowish-gray phyllitic shale and slate*
Ꞓpl, *interbedded bluish-gray limestone. Limestone mostly well bedded. Some is cherty. Few quartzite beds in lower shaly part. Thickness uncertain but may be 5,000 feet*

GRADATIONAL CONTACT

CAMBRIAN(?)

Lower Cambrian(?)

Ꞓtc | Ꞓom — **Osgood Mountain quartzite**
Ꞓom, *medium- to thick-bedded, cross bedded pure quartzite. Well sorted, uniform, fine to medium grained. Fine-grained micaceous silty quartzite partings between beds*
Ꞓtc, *Twin Canyon member, impure quartzite, silty sandstone, phyllitic shale member. Some of the quartzite is dark purplish black owing to as much as 15 percent hematite in matrix. Member is transitional unit between Osgood Mountain quartzite and Preble formation*

Areas of contact metamorphism

Contact
Long dashed where approximately located; short dashed where indefinite

Overturned contact

Fault
Dashed where approximately located; dotted where concealed. U, *upthrown side;* D, *downthrown side*

Probable fault
Dotted where concealed

Thrust fault, showing dip
Dashed where approximately located. Saw teeth on side of upper plate

Strike and dip of beds

Strike and dip of overturned beds

Strike of vertical beds

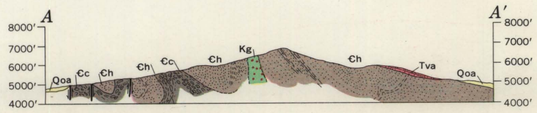
Strike and dip of joints

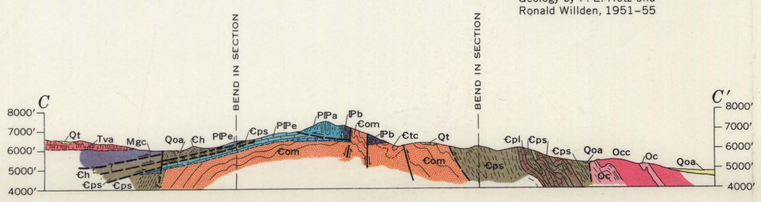
Strike of vertical joints

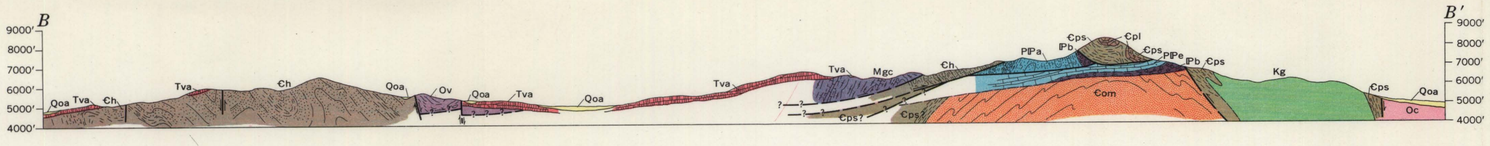
Prospect

Mine

Shaft at surface







GEOLOGIC MAP AND SECTIONS OF THE OSGOOD MOUNTAINS QUADRANGLE, HUMBOLDT COUNTY, NEVADA

SCALE 1:62 500

1 ½ 0 1 2 3 MILES

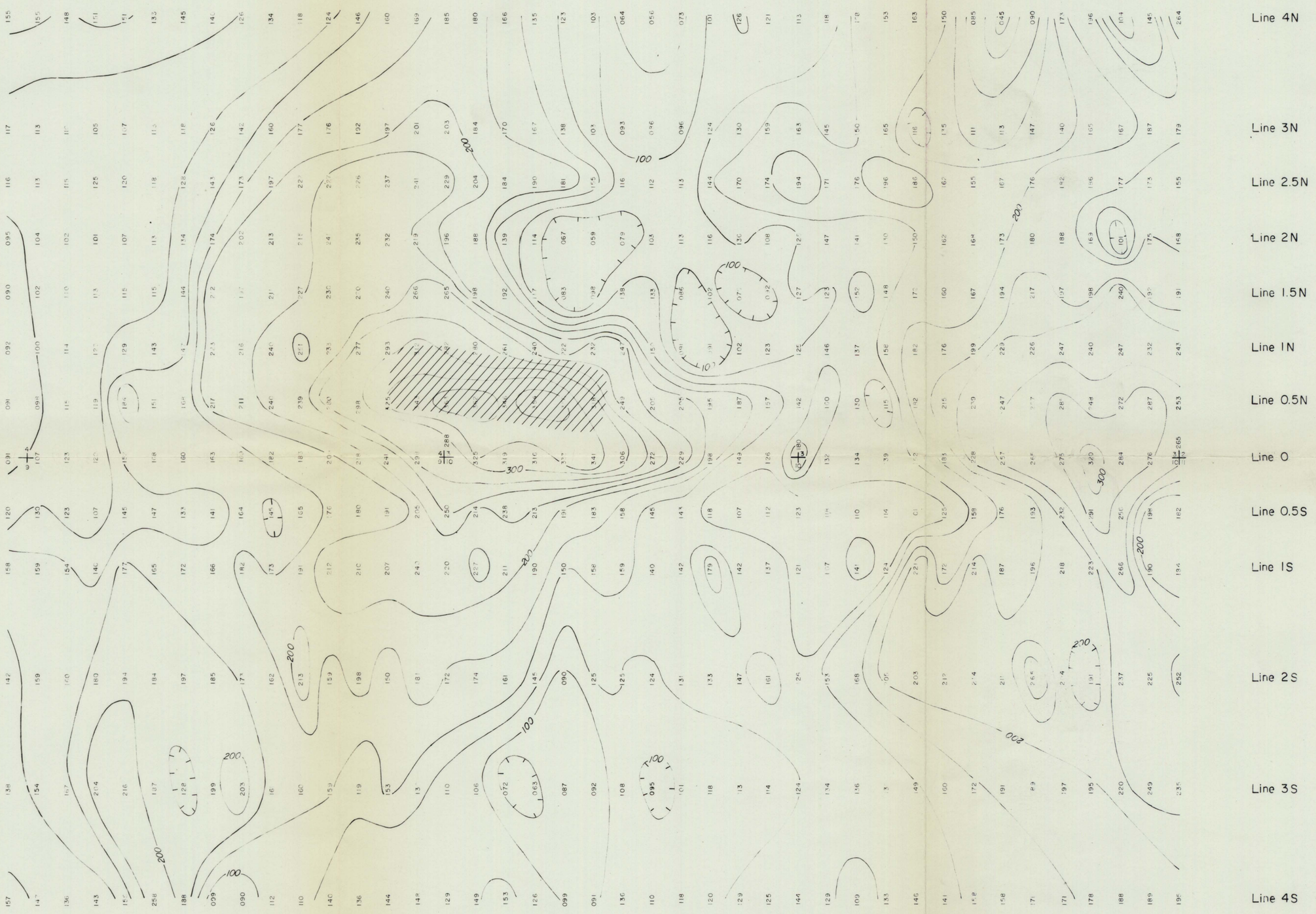
1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVAL 50 FEET
DATUM IS APPROXIMATELY MEAN SEA LEVEL

TRUE NORTH
MAGNETIC NORTH
18°
APPROXIMATE MEAN DECLINATION, 1962

3680 0032

3680 0067



PLAN VIEW OF
CAUSATIVE BODY
APPROX 500' DEEP

NOTE: DATA IN GAMMAS, VALUES SHOWN ARE TOTAL INTENSITY MINUS 54,000.

N

AREA AND TYPE OF MAP

STRIPED HILLS

GROUND MAGNETIC SURVEY

STATE	COUNTY	SCALE	CONTOUR INTERVAL
NEVADA	HUMBOLDT	1" = 500'	25 Gamma

CONTINENTAL OIL COMPANY
MINERALS DEPARTMENT
METALLICS DIVISION
GEOPHYSICS
DENVER, COLORADO

DATA BY	DATE	SIZE	FILE NO.
C. NELSON	8/77		C-306-4
DRAWN BY	DATE	PROJ. FILE NO.	

3680 0032

(136) Item 32

(136) Item 32

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INDUCED POLARIZATION
& RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 13 S
PARTY: 31 Tucson
DATE SURVEYED: 6-29-79
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 + .2

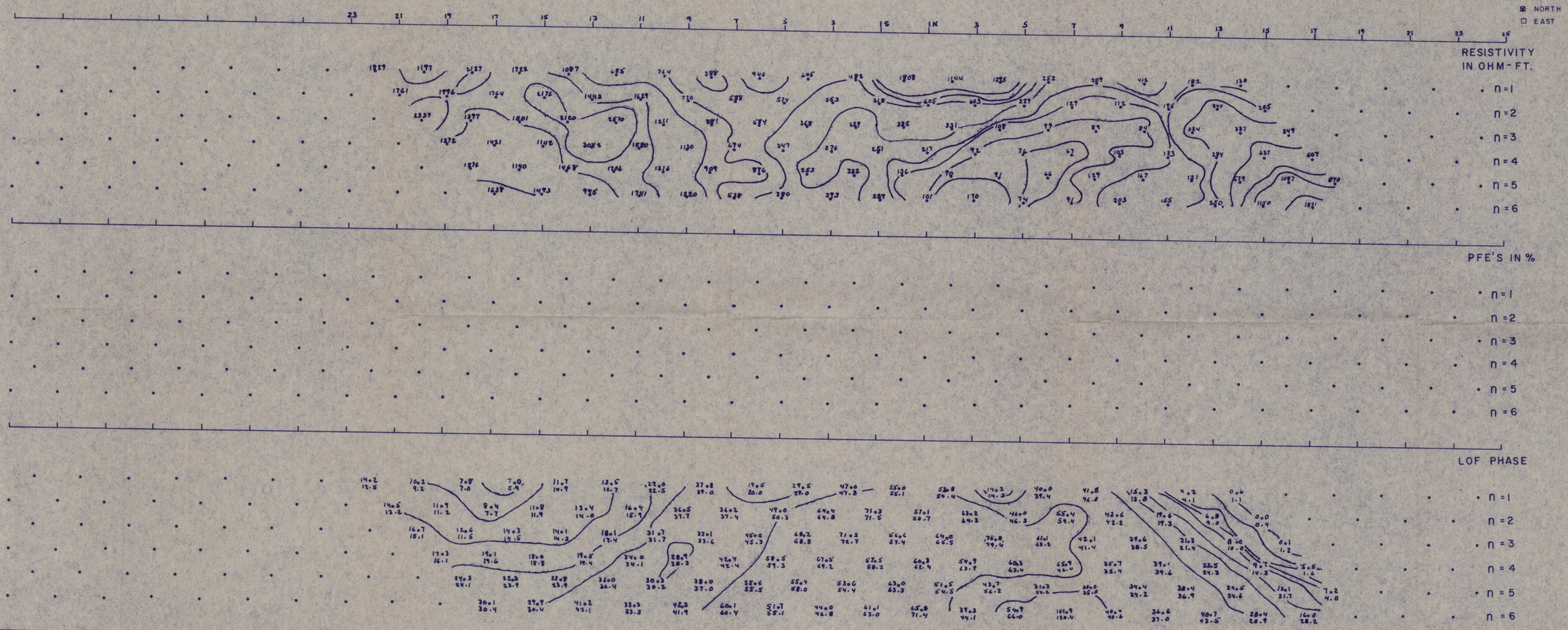
LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50 00

REMARKS:

POWER LINE | PIPE LINE | FENCE ☐METAL ☐WOOD

3680 0032

(136) Item 32



☒ NORTH
☐ EAST

conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 13 W
PARTY: 31 Tucson
DATE SURVEYED: 6-26-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 & .2

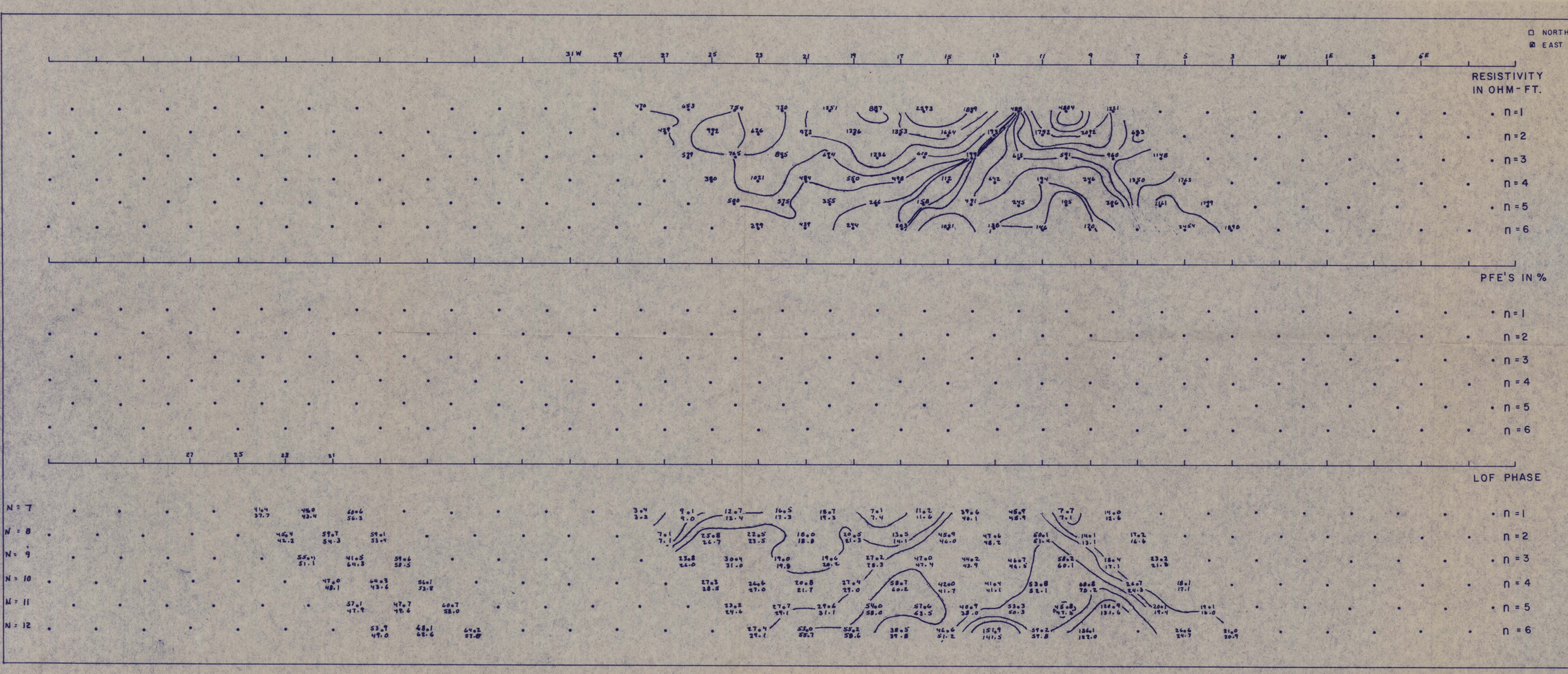
LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50. . .00

REMARKS:

POWER LINE | PIPE LINE | FENCE ☐METAL ☐WOOD

3680 0038

(136) Item 32



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: Line No. 0
PARTY: SI Tucson
DATE SURVEYED: 6-24-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 & .2

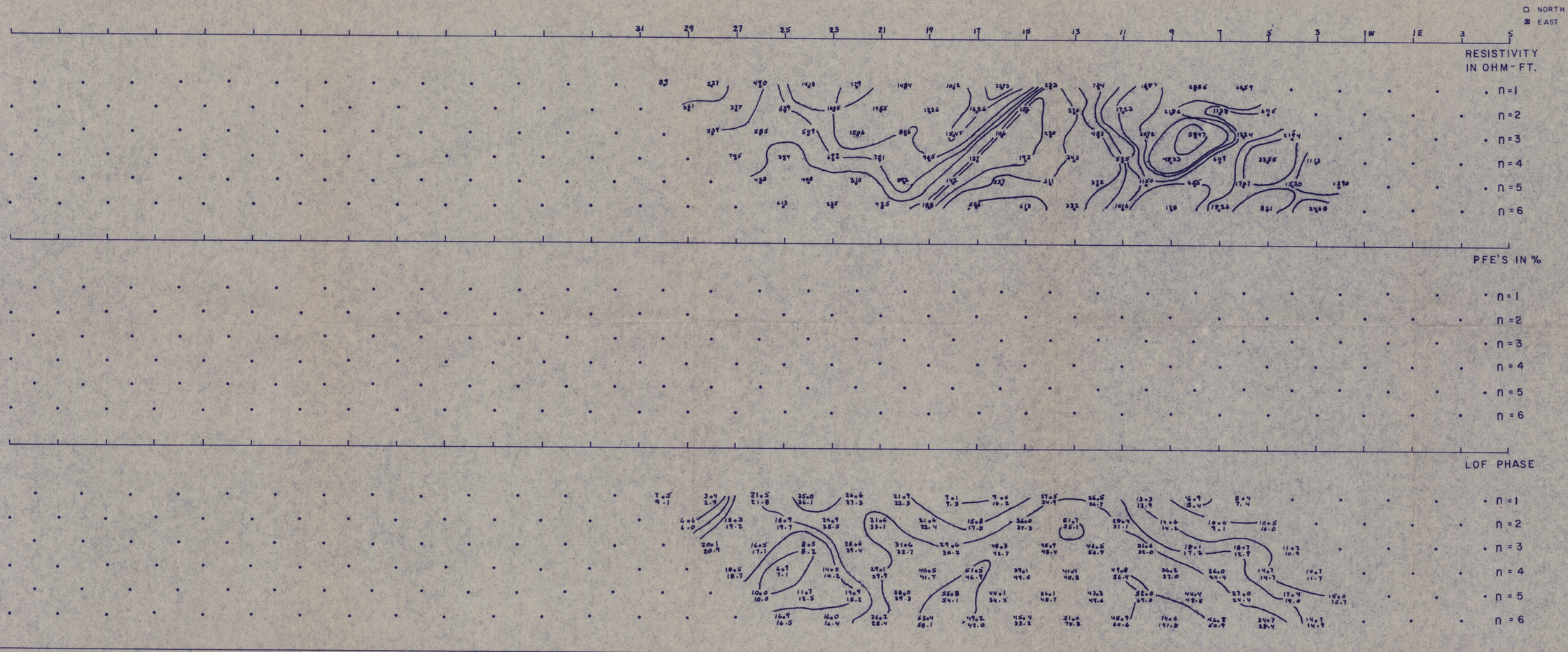
LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50 . . 00

REMARKS:

POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD

3680 0038

(136) Item 32



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 7S
PARTY: 31 Tucson
DATE SURVEYED: 6-29-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 + .2

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50. . 00

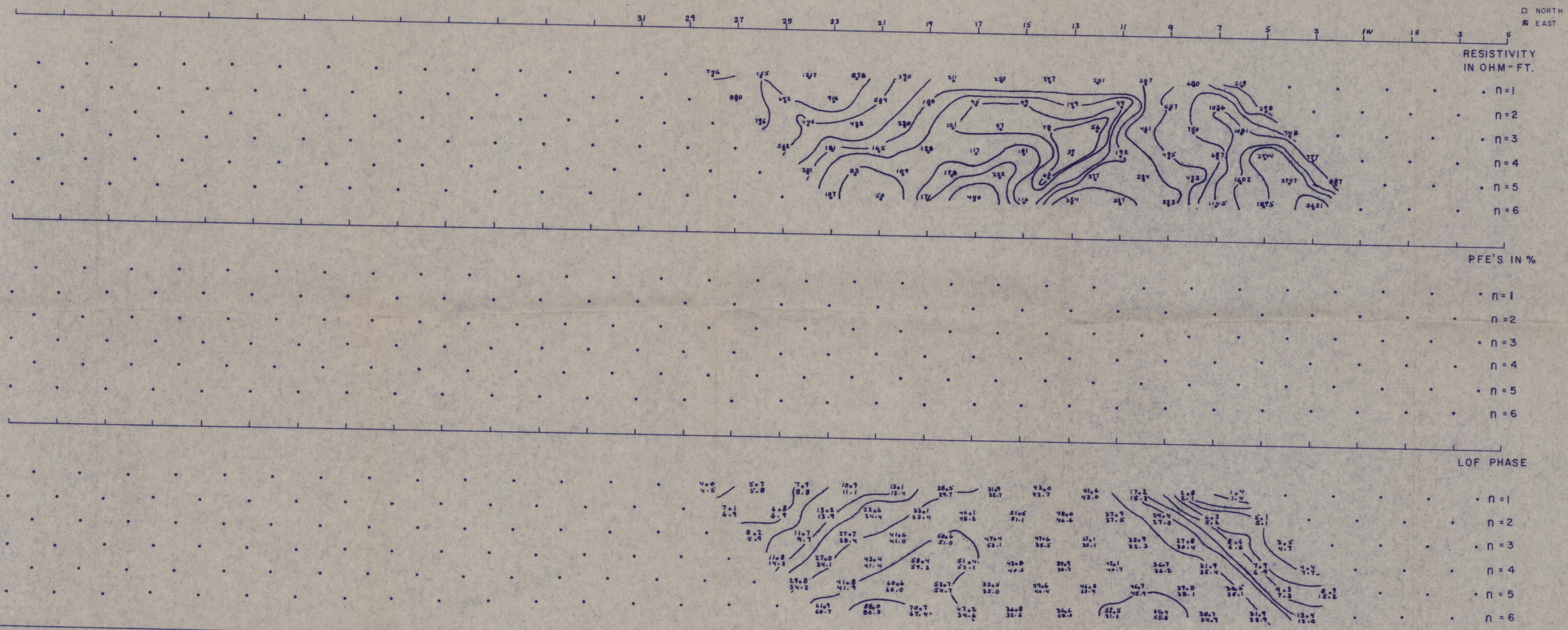
REMARKS:

POWER LINE
PIPE LINE
FENCE
METAL
WOOD

3980 0032

3680 0032

(136) Item 132



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 8 N
PARTY: 31 Tucson
DATE SURVEYED: 6-28-79
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 & .2

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50. . .00

REMARKS: CP # 5 mon. 150' South - Side # 21.
CP # 6 mon. 50 north - side # 15.

POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD

(136) Item 32

☐ NORTH
☑ EAST

conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Stripped Hills
LINE NO: 17 - S
PARTY: 31 Tucson
DATE SURVEYED: 10-17-18-74
DIPOLE LENGTH: 500
ARRAY: Dip-dip
FREQUENCY: .1

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50 00

REMARKS: .1 PH 2nd Res. pbHeds

POWER LINE | PIPE LINE | FENCE ☐METAL ☐WOOD

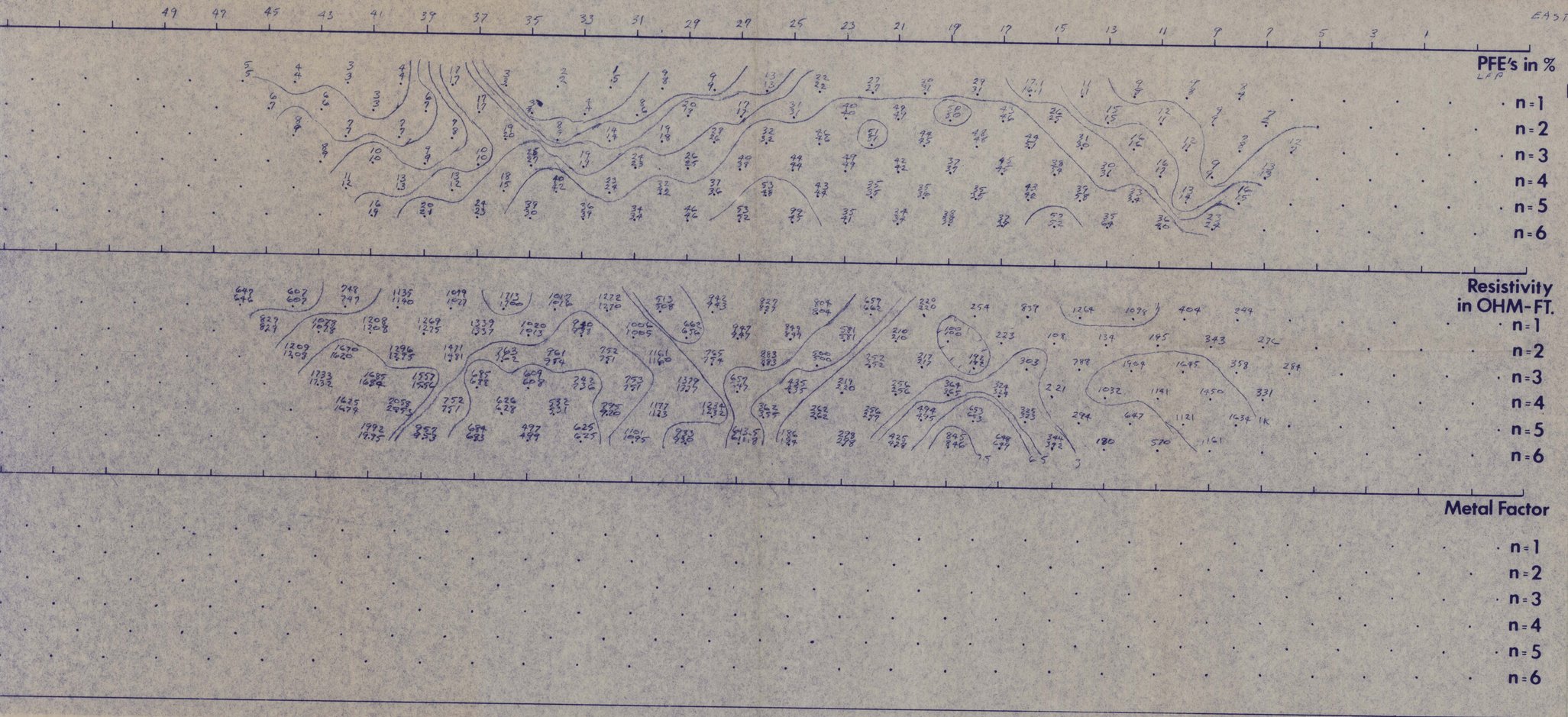
	51	49	47	45	43	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	RESISTIVITY IN OHM-FT.
n=1			334	636	549	467	439	156	481	282	741	538	989	618	2040	139	25	82	455	973	3407	1837				
n=2			376	581	582	921	323	598	518	510	523	482	1047	1102	220	56	91	48	308	2177	2056	1947				
n=3			331	624	1128	569	642	457	853	347	727	618	1642	100	139	113	187	65	685	1429	1721	2915				
n=4			291	865	583	815	484	647	482	442	527	878	144	71	249	207	275	121	320	1064	2314					
n=5			458	440	833	644	647	343	741	345	805	101	162	166	550	329	600	82	227	1478						
n=6			212	657	644	777	317	548	535	524	78	187	335	291	1012	632	400	53	273							

																										PFE'S IN %
n=1																										
n=2																										
n=3																										
n=4																										
n=5																										
n=6																										

																										LOF PHASE
n=1			3.1	6.3	11.8	10.6	7.7	2.0	6.1	6.4	12.4	16.3	22.3	28.0	45.5	67.4	63.3	48.7	72.1	15.4	12.2	8.1				
n=2			7.9	13.6	7.3	12.0	12.6	12.9	15.2	9.8	16.6	33.1	36.9	20.0	77.6	72.3	48.0	58.2	31.8	17.1	14.0	9.5				
n=3			13.8	7.2	7.8	16.6	21.4	20.9	17.5	13.2	35.2	45.9	28.0	51.5	70.9	63.5	42.5	60.3	35.8	19.7	13.7	8.6				
n=4			5.5	6.6	11.8	23.9	28.5	21.6	17.8	36.1	45.5	34.8	61.1	41.0	58.1	53.3	37.0	61.4	40.3	24.2	17.1					
n=5			6.2	16.7	20.0	30.9	29.4	20.3	37.9	39.5	33.0	63.9	49.0	29.2	47.3	52.2	39.7	64.4	42.8	34.3						
n=6			14.7	22.2	31.9	36.3	31.7	44.7	48.6	28.1	80.4	60.7	42.6	23.2	46.4	59.4	43.5	73.0	49.9							

3680 0032

(136) Item 32



conoco

Induced Polarization & Resistivity Survey

Line No. 19S

Party 31 **Area** STRIPPED HILLS

Date Surveyed: 11-10-74 TO

Dipole Length: _____

Array: _____

Frequency: _____

Log Contours

1-1.5-2-3-5-7.5-10
15-20-30-50...00

REMARKS: _____

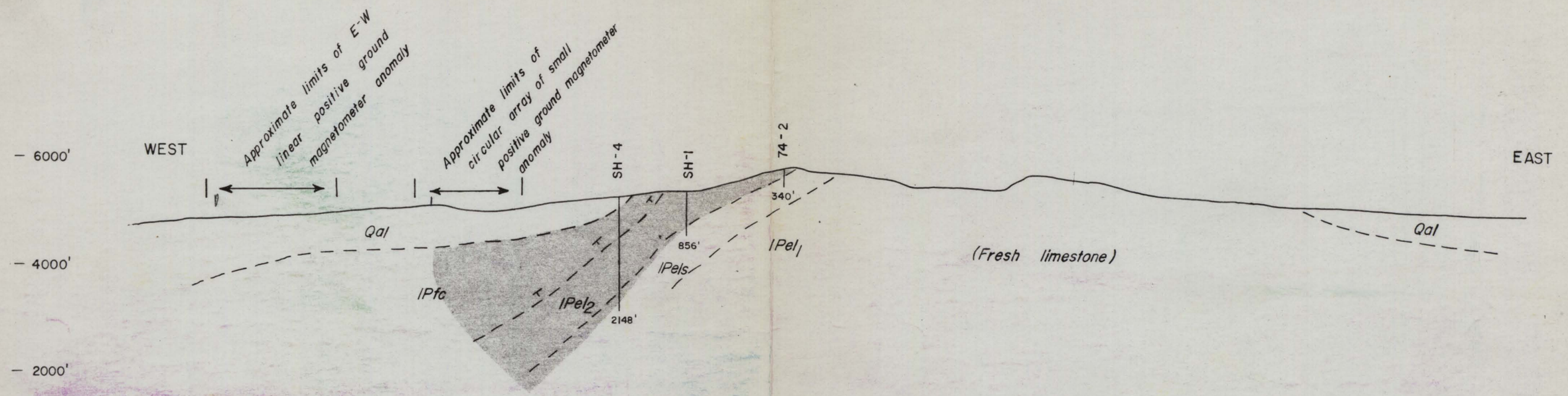
POWER LINE

PIPE LINE

FENCE ☐ Metal ☐ Wood

3680 0032

3680 0032



Qal	Alluvium
lPfc	Farrel Canyon Formation
lPel2	Etchart Formation — upper limestone
lPels	Etchart Formation - middle carbonaceous unit
lPel1	Etchart Formation - lower limestone
	Etchart Thrust Fault
	Hydrothermal alteration

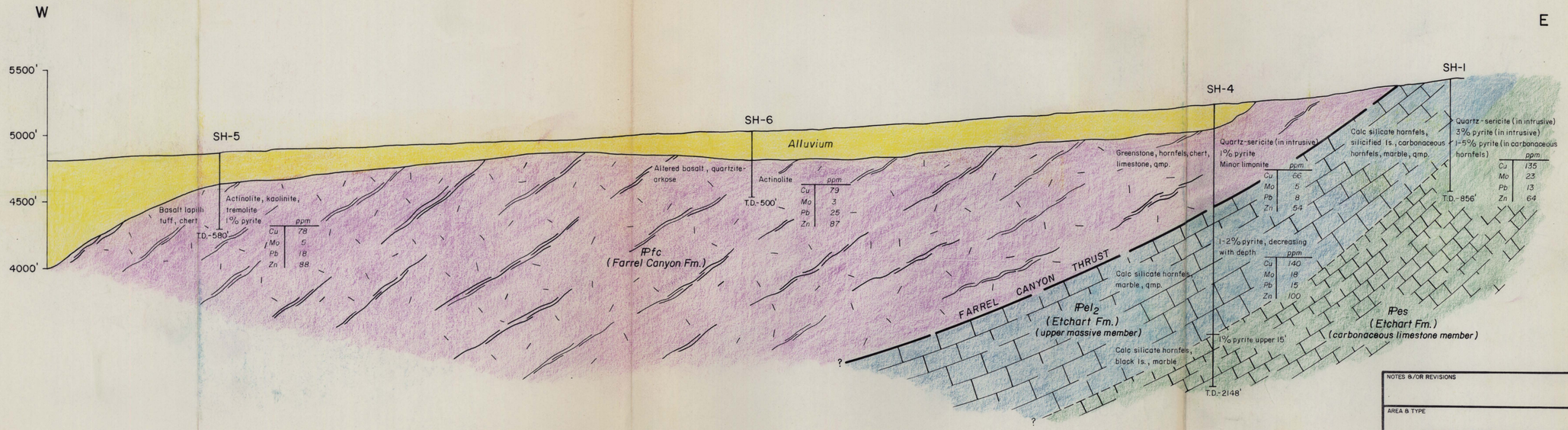
0 2000 4000'

Scale 1" = 2000'

EAST WEST CROSS SECTION
STRIPED HILLS PROJECT

Humboldt County, Nevada

(136) Item 32



NOTES &/OR REVISIONS

AREA & TYPE

STRIPED HILLS PROJECT
GEOLOGIC CROSS SECTION

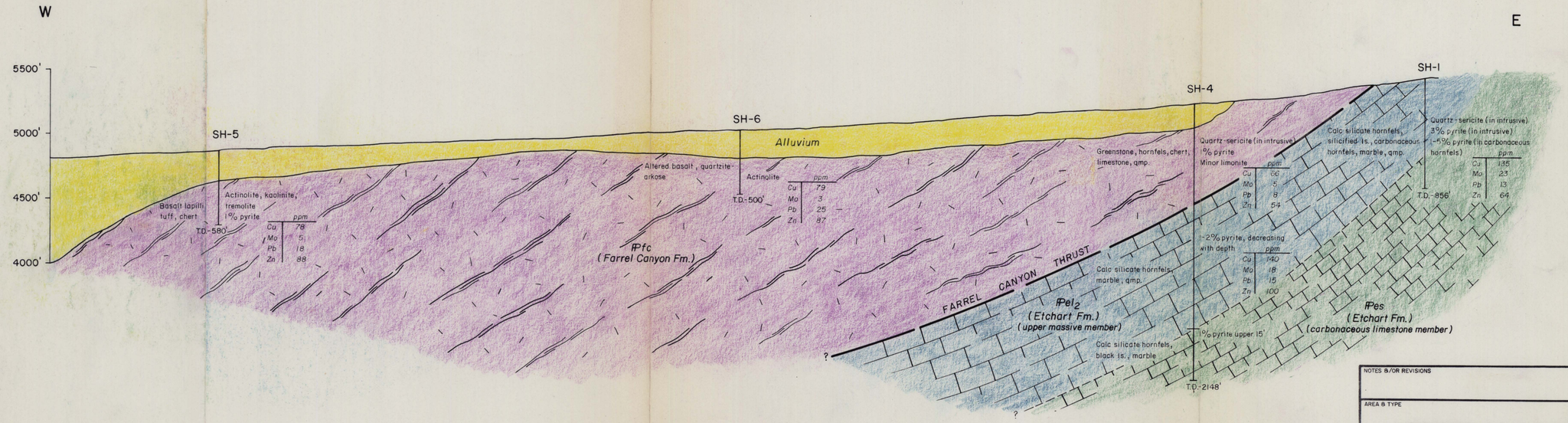
CONOCO

Continental Oil Company
MINERALS DEPARTMENT
METALLICS DIVISION
Reno, Nevada

DATA BY	DATE	COUNTY	DWG. NO.
G. PINE	12/78	HUMBOLDT	
DRAWN BY	SCALE	STATE	
COOK	1" = 500'	NEV.	

3680 0032

(136) Item 32



NOTES &/OR REVISIONS

AREA & TYPE

STRIPED HILLS PROJECT
GEOLOGIC CROSS SECTION

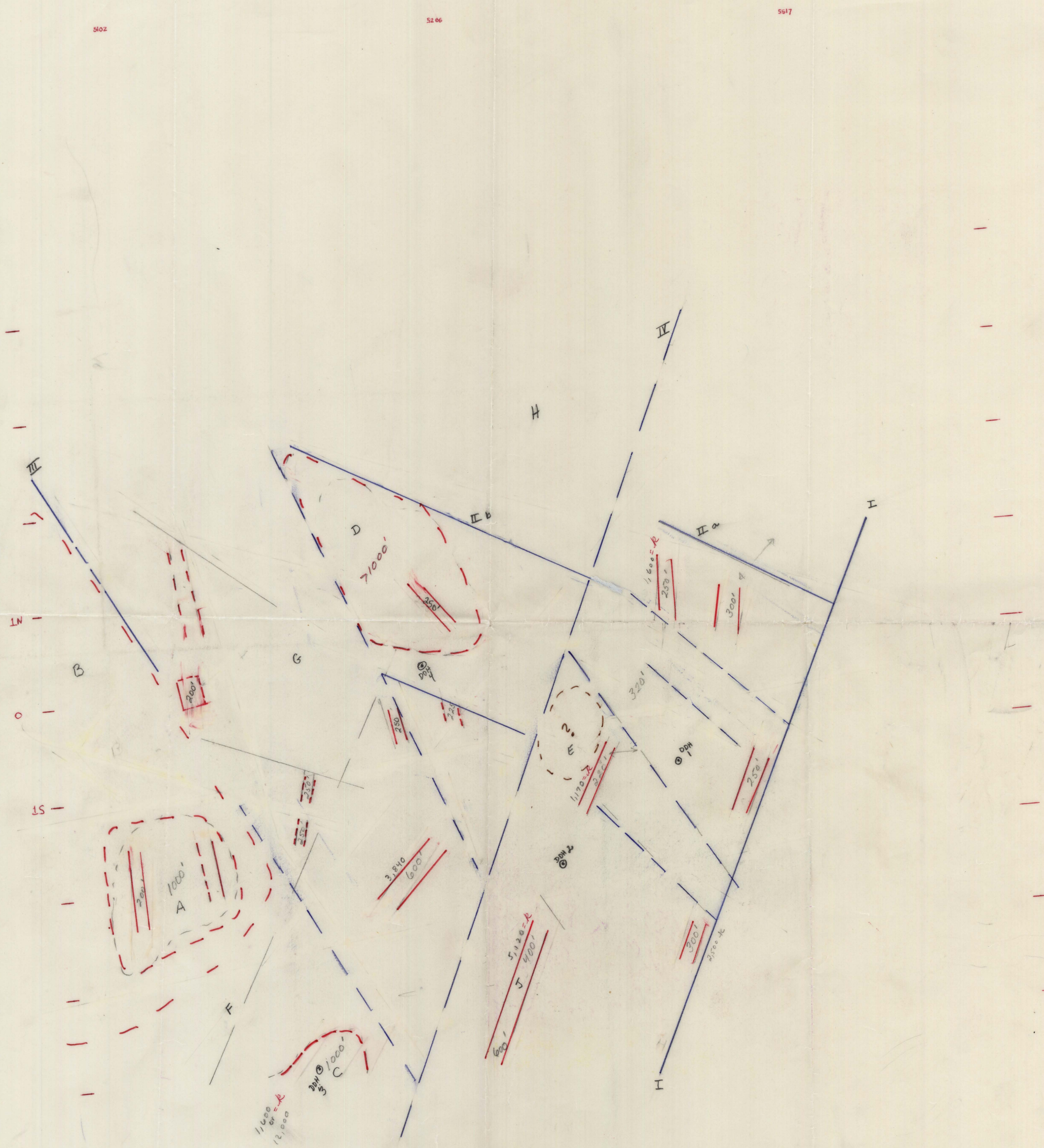
CONOCO

Continental Oil Company
MINERALS DEPARTMENT
METALLICS DIVISION
Reno, Nevada

DATA BY	DATE	COUNTY	DWG. NO.
G. PINE	12/78	HUMBOLDT	
DRAWN BY	SCALE	STATE	
COOK	1" = 500'	NEV.	

3680 0032

(136) Item 32



STRIPED HILLS GROUND MAG INTERPRETATION
OVERLAY

SCALE 1"=1000'

D. SIMMONS
10/23/75

136
Item 32

36080

NOTE: DATA IN GAMMAS, VALUES SHOWN ARE TOTAL INTENSITY MINUS 54,000.

RECOMMENDED DRILL HOLE

AREA AND TYPE OF MAP

STRIPED HILLS

GROUND MAGNETIC SURVEY

W 1/2, 1977

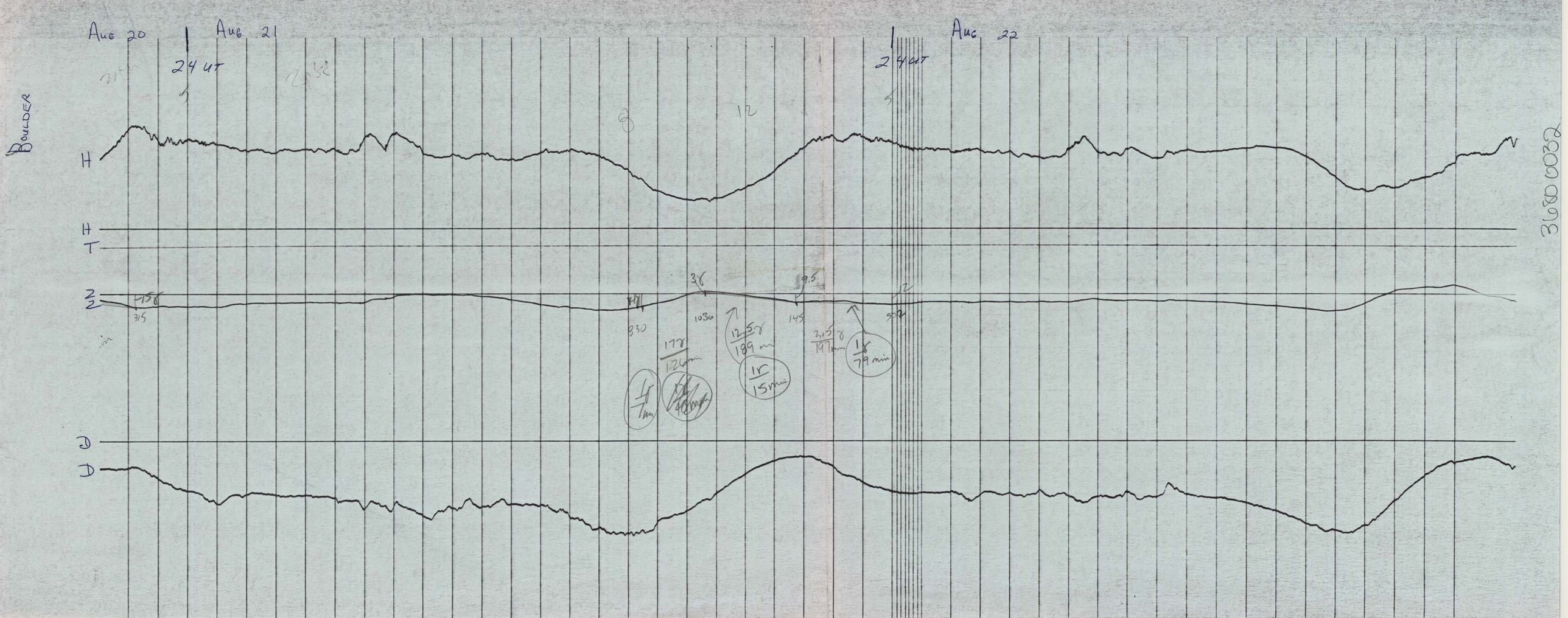
STATE	COUNTY	SCALE	CONTOUR INTERVAL
NEVADA	HUMBOLDT	1" = 500'	25 Gammas

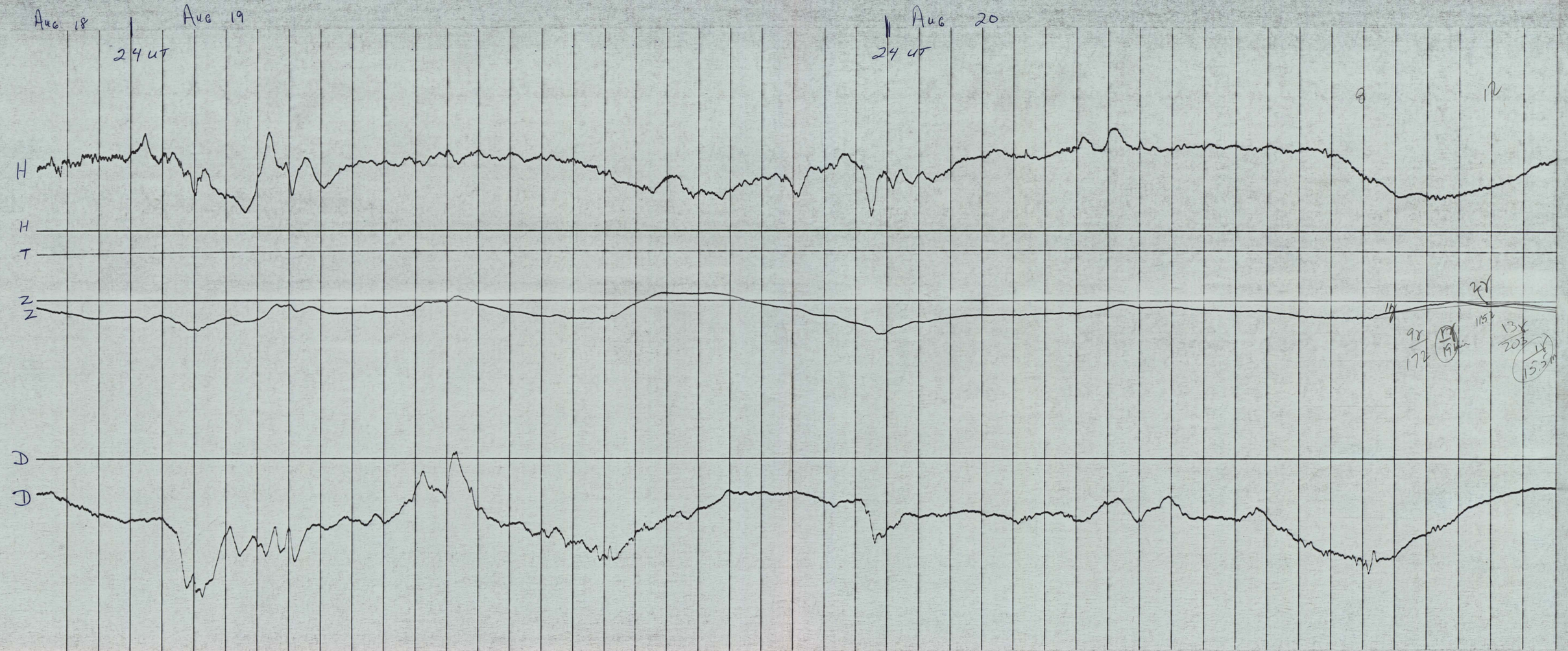
CONTINENTAL OIL COMPANY
MINERALS DEPARTMENT
METALLICS DIVISION
GEOPHYSICS
DENVER, COLORADO

DATA BY	DATE	
C. NELSON	8/77	15-7010015-4
DRAWN BY	DATE	

3680 0032

(136) Item 32

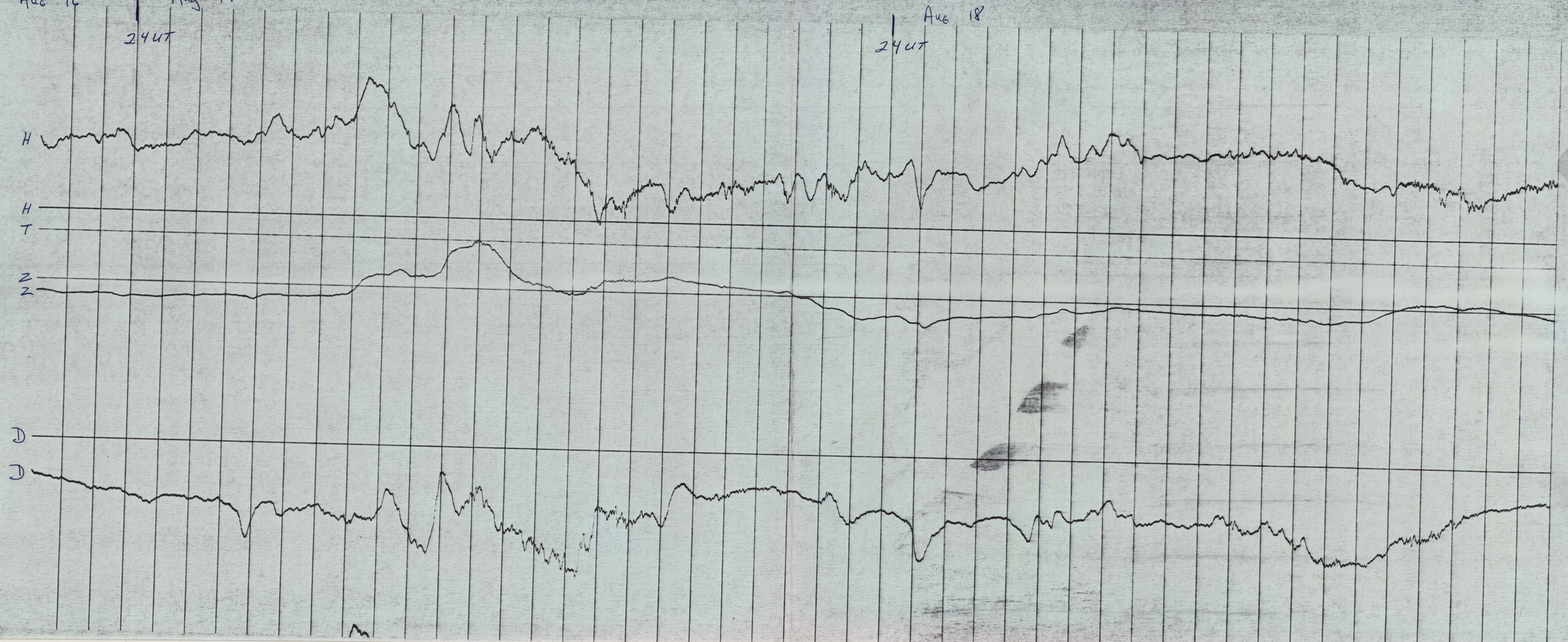

Aug 20
Aug 21
Aug 22
24 UT
24 UT
BOULDER
H
H
T
Z
D
D
315
830
1036
145
3γ
9.5
12.5γ
189 min
1γ
15 min
2.5γ
197 min
1γ
79 min
177γ
126 min
1γ
1 min



Boulder

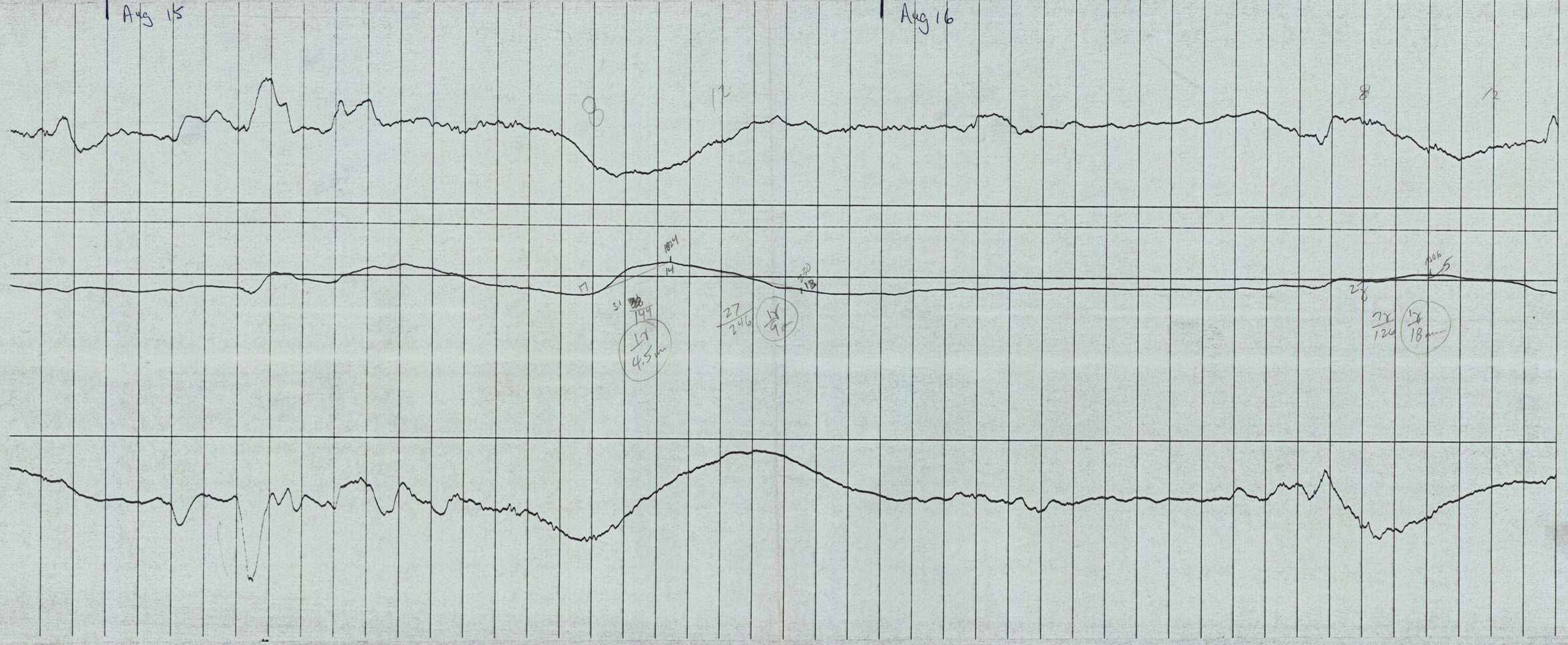
Aug 1962

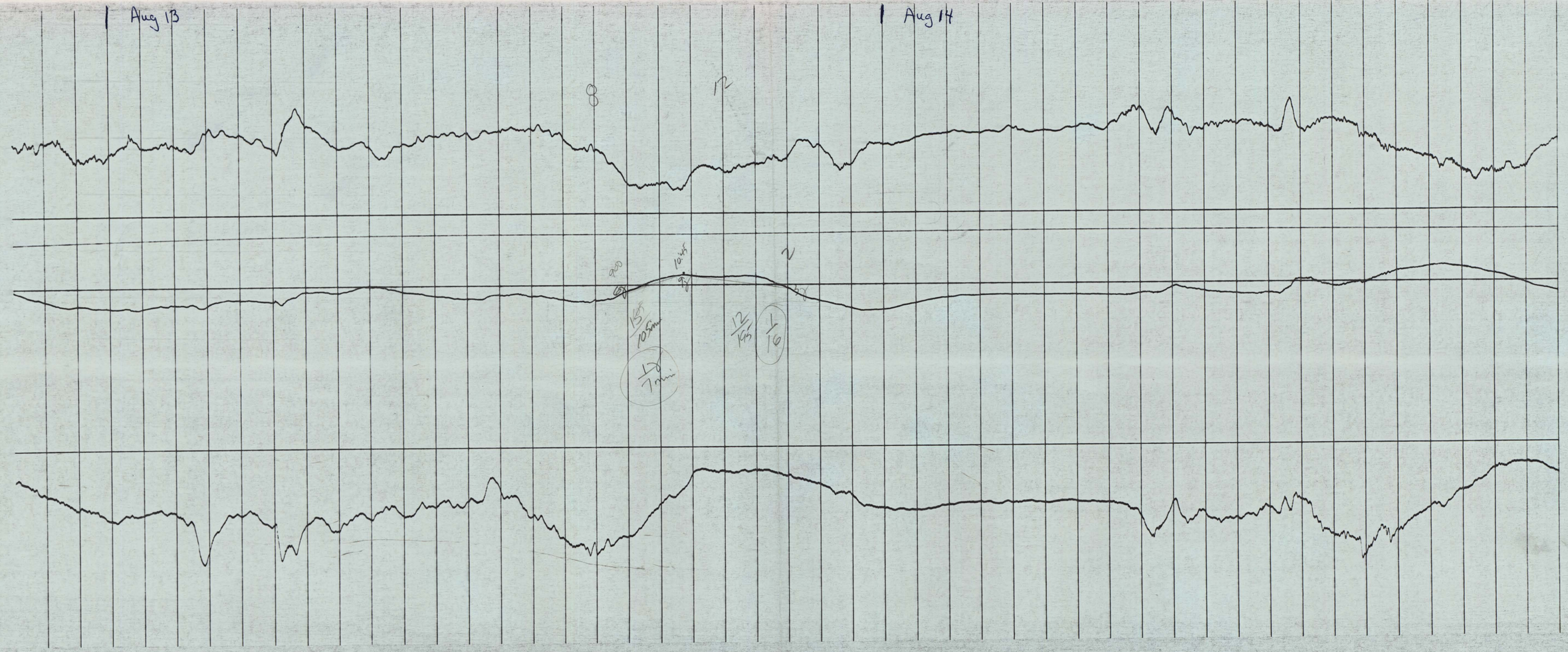
Rec'd 9/24



BOULDER

3680 0038


Aug 15
Aug 16
8
12
8
12
17
14
13
5
27/246
4.5 mm
9 mm
18 mm



2080 0032

Aug 10

Aug 11

24 U.T.

Aug 12

24 U.T.

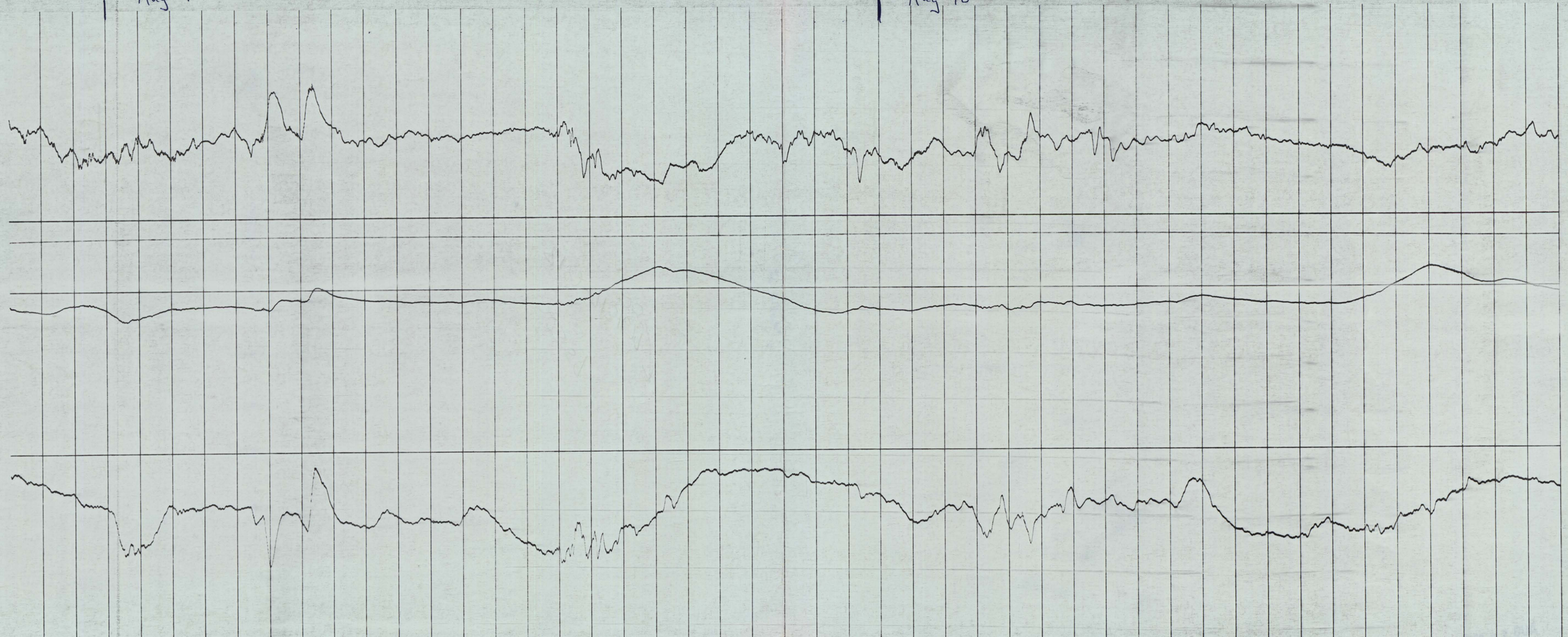
BOULDER

3680 0032

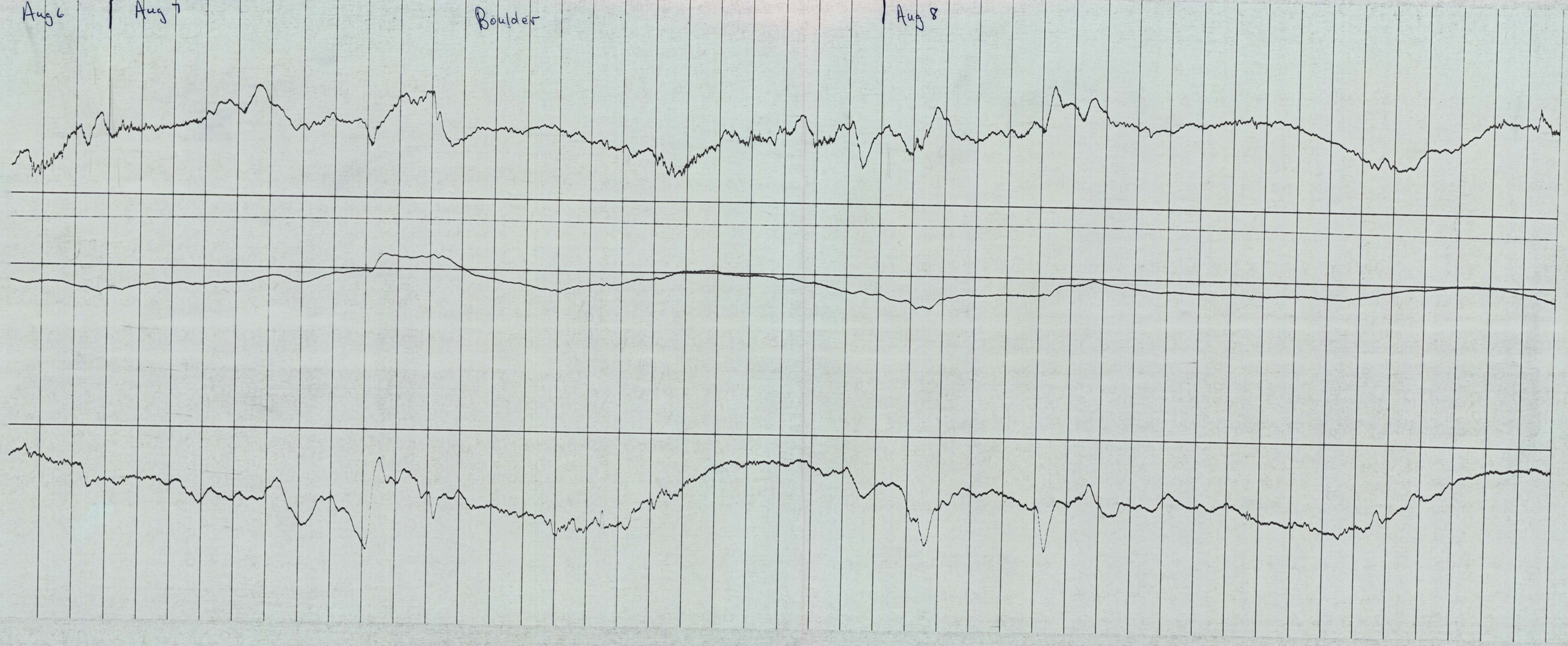
Boulder

Aug 9

Aug 10

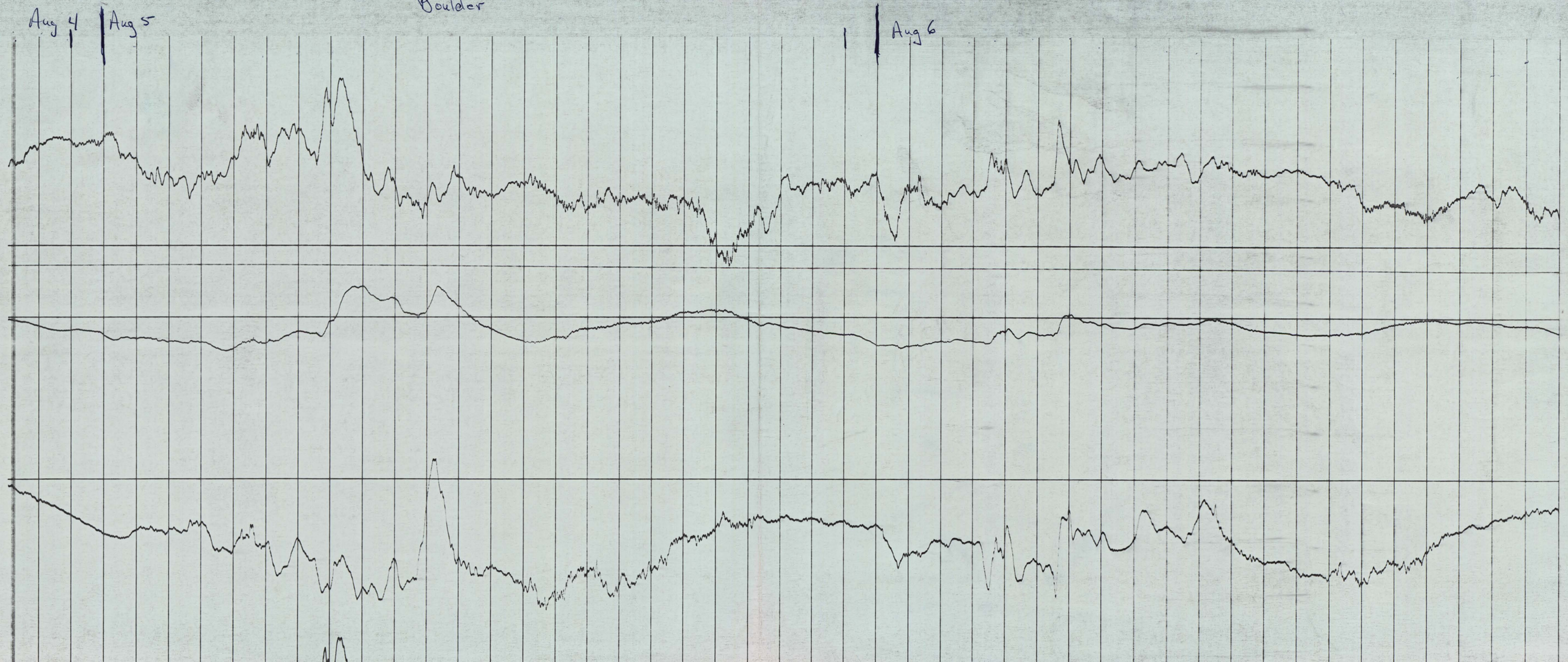


3080 0038

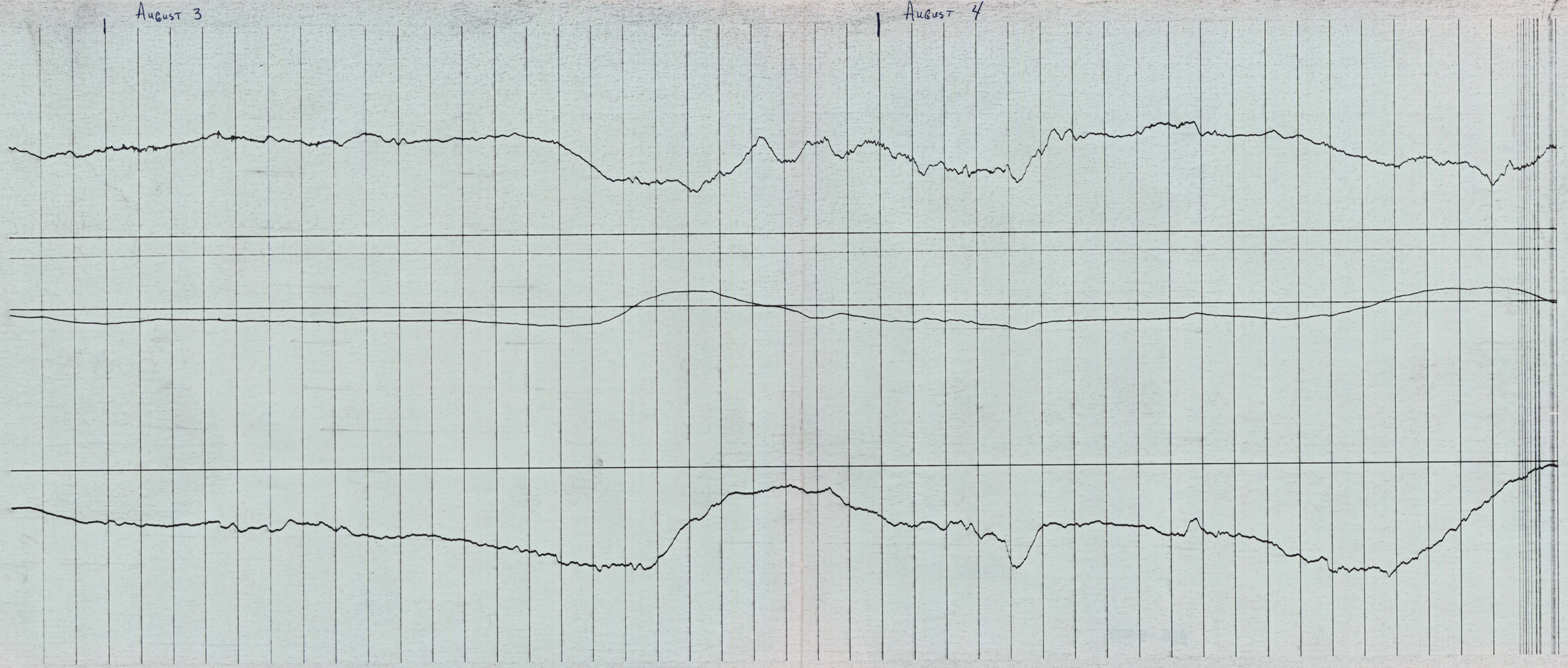


3680 0032

Boulder



31880 0082



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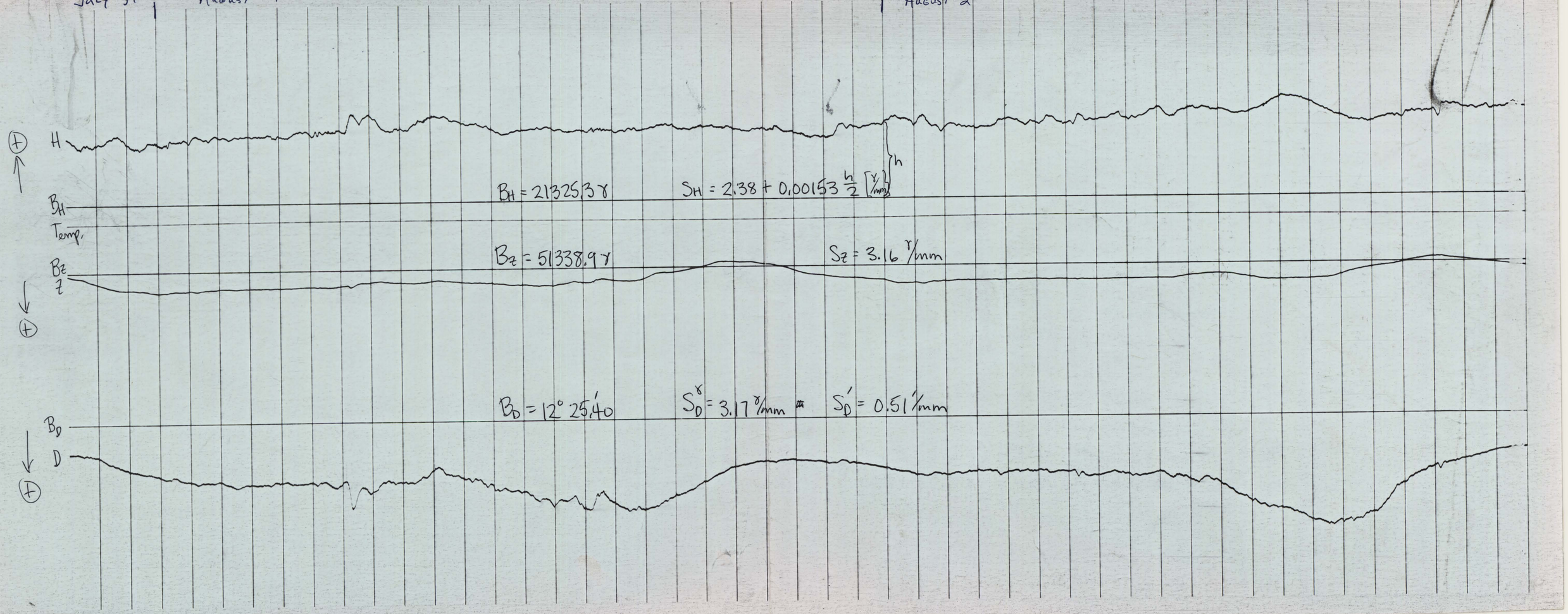

H
B_H
Temp.
B_Z
Z
B_D
D
$B_H = 21325.3\gamma$
$S_H = 2.38 + 0.00153\,h$ [γ/mm]
h
$B_Z = 51338.9\gamma$
$S_Z = 3.16$ γ/mm
$B_D = 12° 25.4'$
$S_D^{\gamma} = 3.17$ γ/mm
$S_D' = 0.51'$/mm

3680 0032

NORTHS RANCH 1SW. NEV. C.I.20'

BEFORE FIELD COMPLETION

This is a copy of a U. S. Geological Survey manuscript compiled by photogrammetric methods. It does not include information to be obtained during field completion surveys.

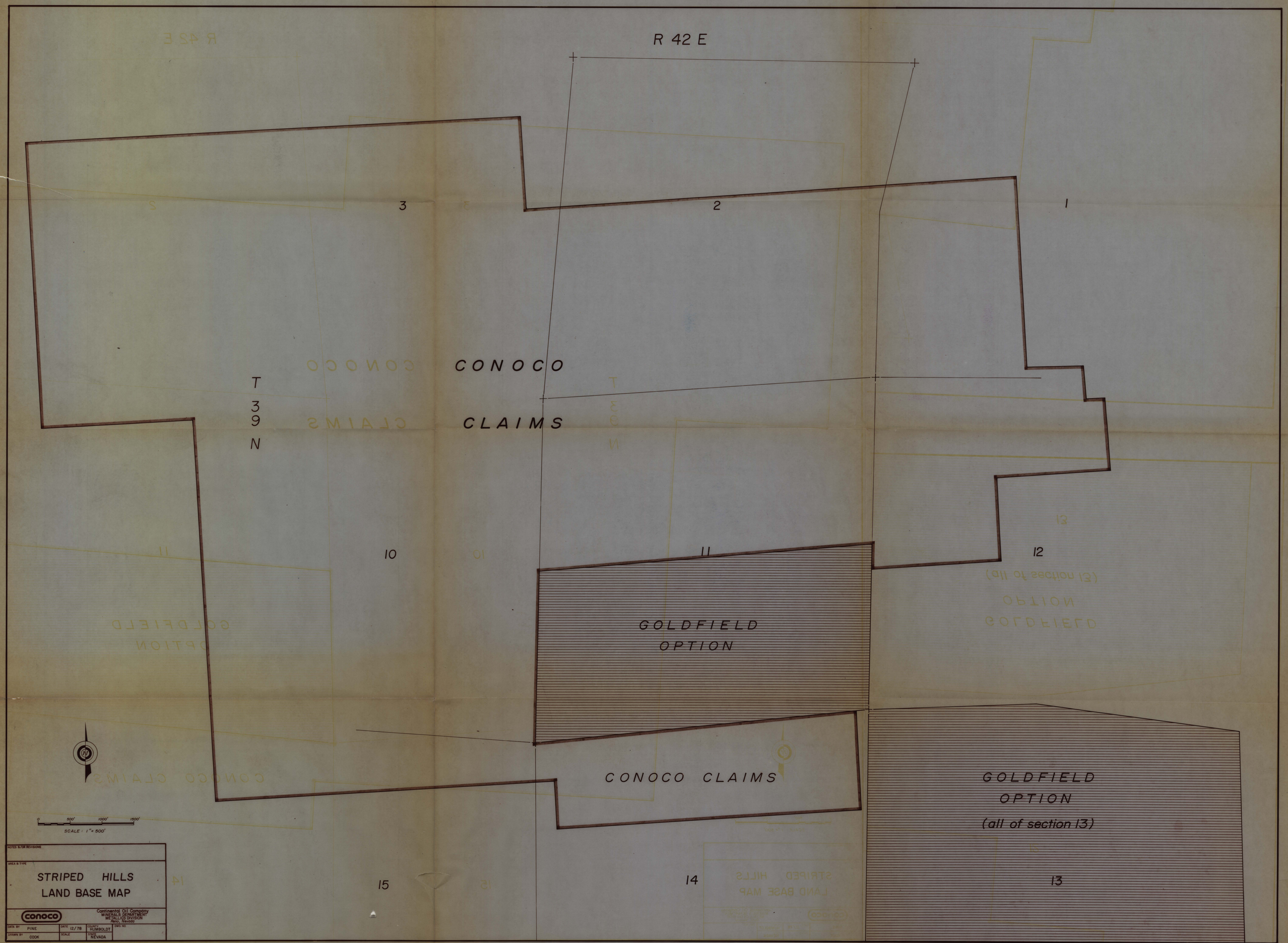
NORTHS RANCH 1SW. NEV. C.I.20'
VDNC-1974-15000
NEV. W ZONE —
UTM ZONE 11

TRANV MERC PROJ

HUMBOLDT PROJ.

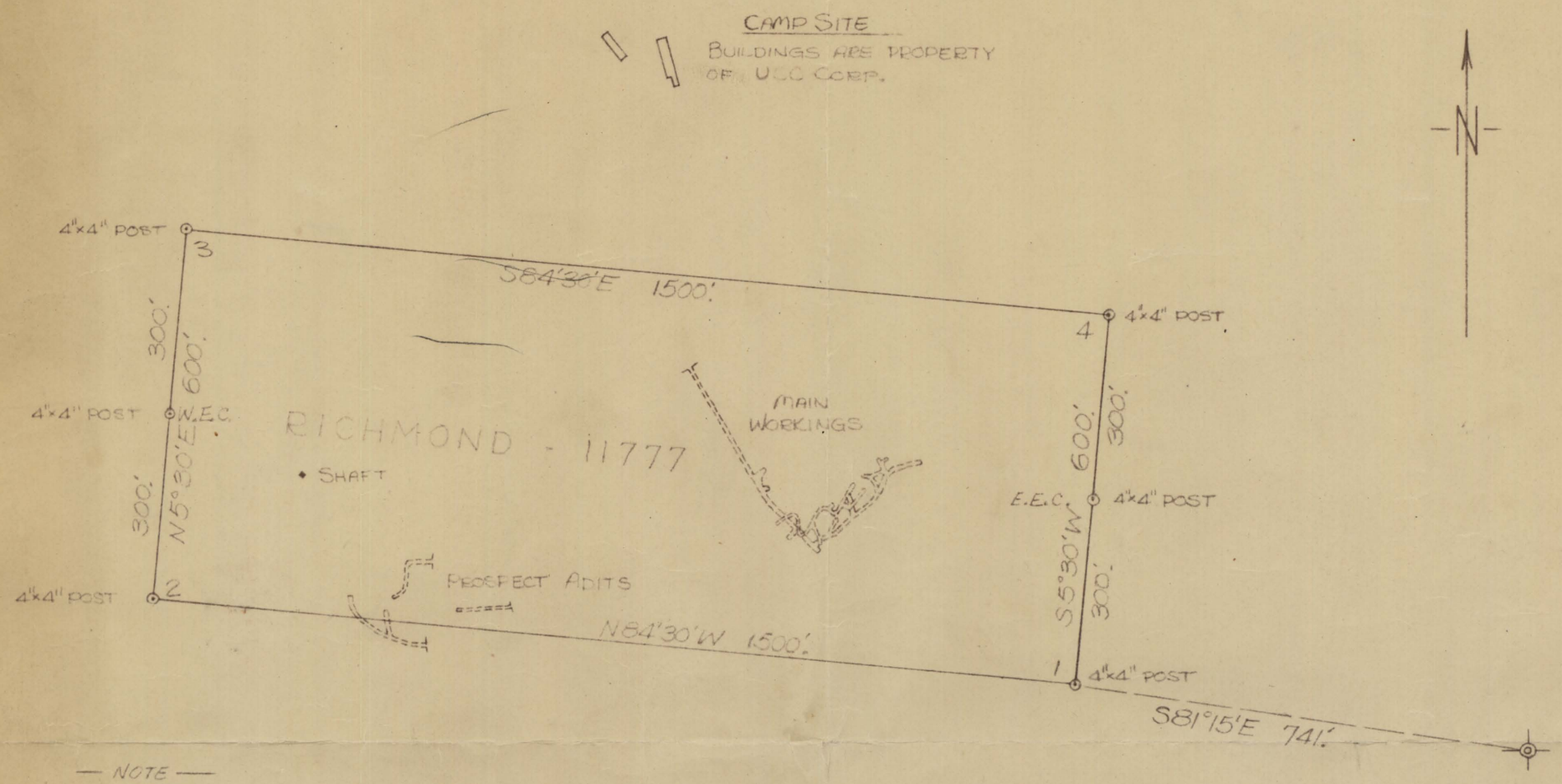
136
Item 32

36800032



3680 0032

(136) Item 32



— NOTE —

F.R. O'LEARY, (NOW DECEASED) COUNTY SURVEYOR, HUMBOLDT COUNTY, ON SEPT. 16, 1938, GAVE A TIE OF S80°00'W-824' FROM COR. 2 TO THE SOUTHWEST CORNER OF SECTION 31. THIS SECTION CORNER HAS SUBSEQUENTLY BEEN DESTROYED.

SEC. 31, T39N, R42E, M.D.B.&M.

U. S. MINERAL MONUMENT NO. 1 - ROUGH HEWN 3"x3"x4' POST IN ROCK MOUND ON GRANITE OUTCROP ON RIDGE

THIS MAP DESCRIBES THE RICHMOND LODE CLAIM AS IT WAS RESURVED BY U.S. VANADIUM CO., JULY 11-12, 1951.

UNITED STATES VANADIUM ~~CORPORATION~~ COMPANY
PINE CREEK TUNGSTEN MINE
BISHOP, CALIF.

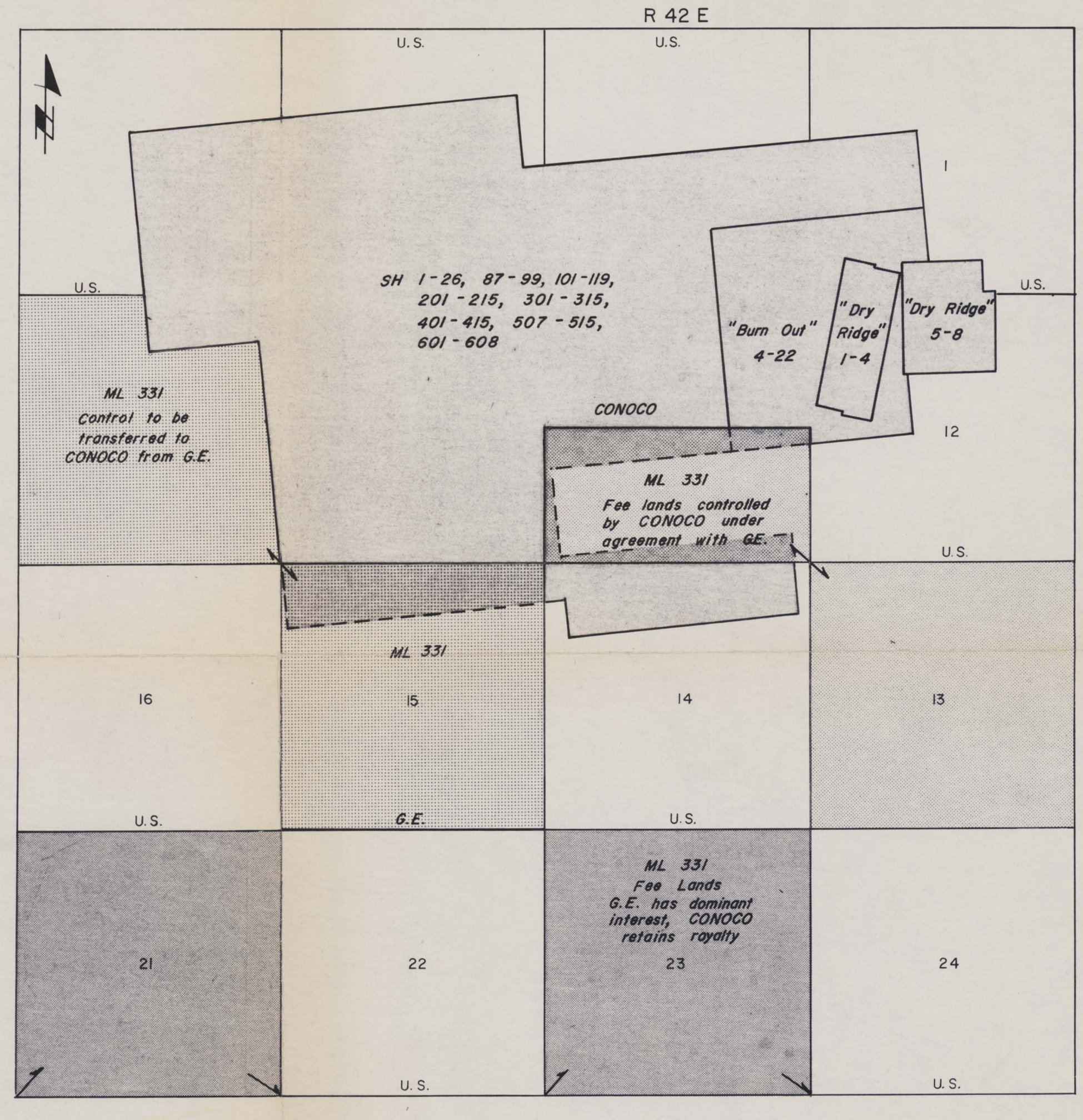
RICHMOND LODE CLAIM
HUMBOLDT CO., NEVADA

PROPERTY OF UNION CARBIDE & CARBON CORP.

DATE	JULY 16, 1951	DWG. NO.
DRAWN BY	WM. H. KOHLER	
SCALE	1" = 200'	

3680 0032

136
Item 32



2000 0 2000 4000'

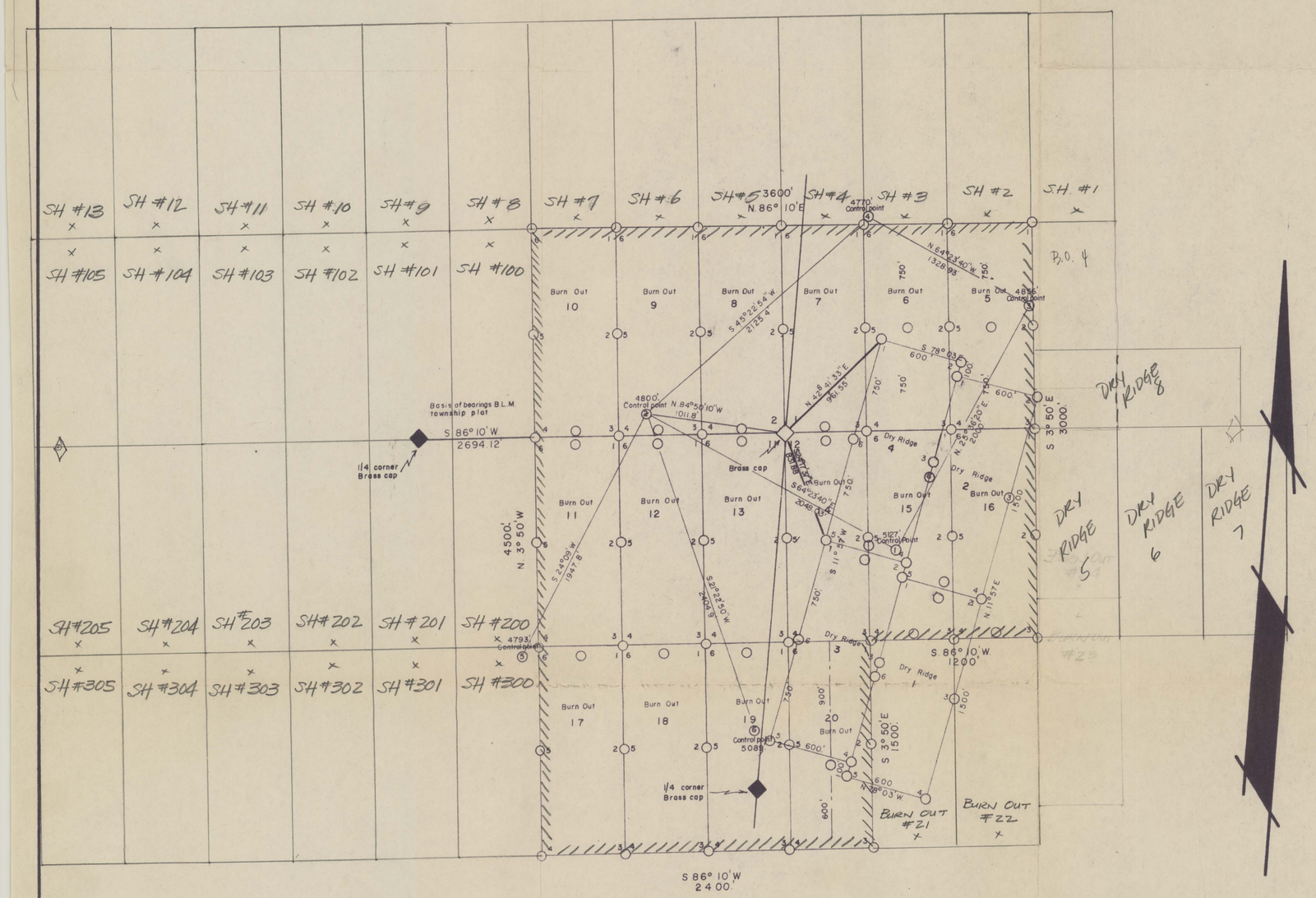
Scale 1" = 2000'

STRIPED HILLS
LAND MAP
Humboldt County, Nevada
March 1977

3680 0032

136 Item 32

3680 0032



Locator: Continential Oil Company
P.O. Box 7608
Reno Nevada

June, 1974

MAP

LODE MINING CLAIMS

Burn out 5-20 Dry Ridge 1-4

Situated within sections
1, 2, 11, & 12
T. 39N. R42E

Humboldt County NEVADA

3680 0032

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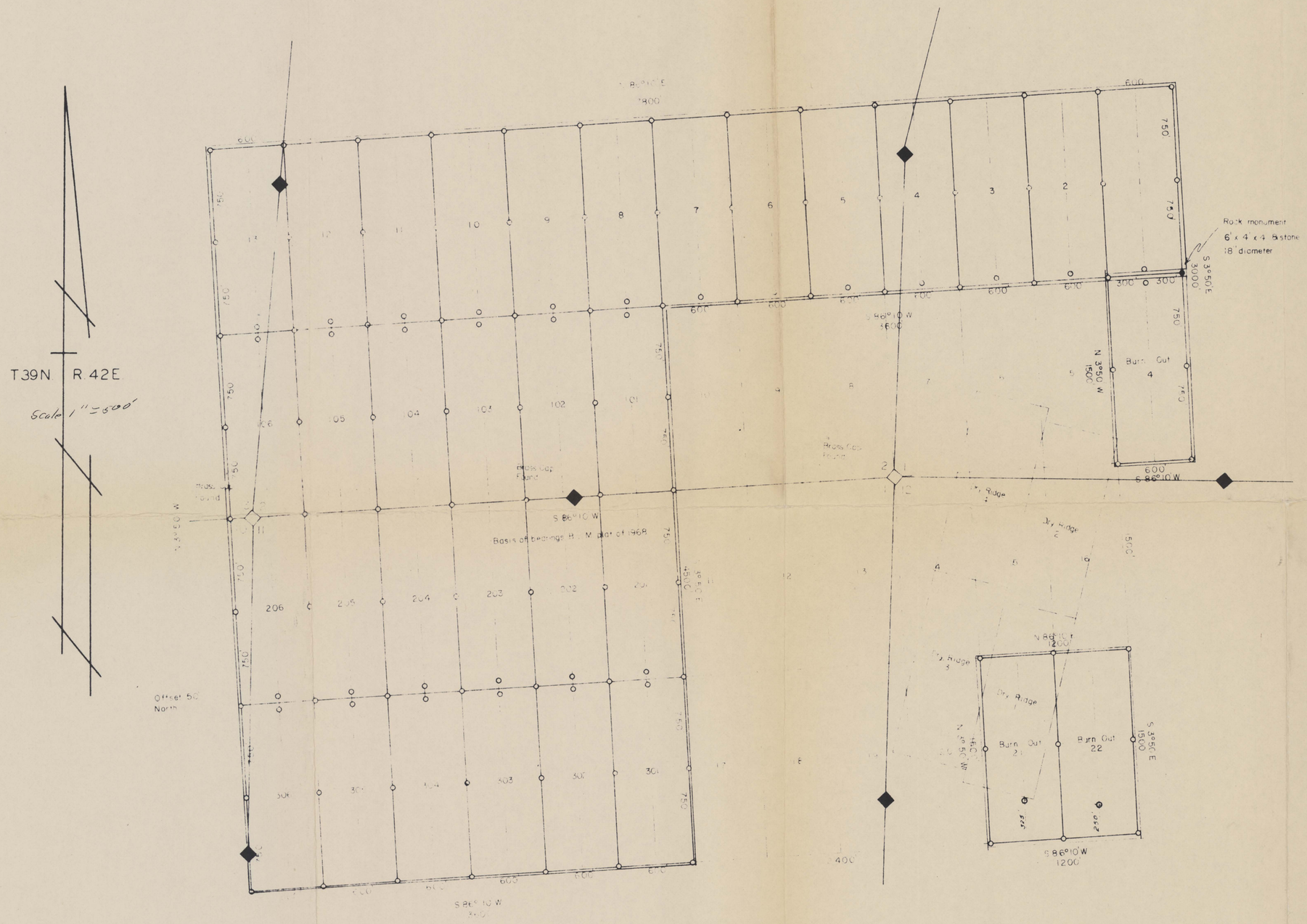
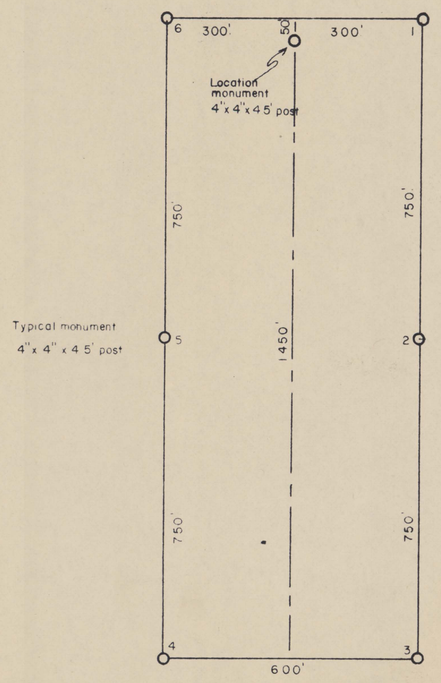
Item 32





Typical Claim
Scale 1" = 200'

Locator Continental Oil Company
PO Box 7608
Reno, Nevada 89502

Filed in the office of the Recorder of Humboldt County, Nevada this 7th day of March 1975 at 16 minutes past 2 o'clock P.M. at request of Continental Oil Co.

Gladys Clark
County Recorder

168210

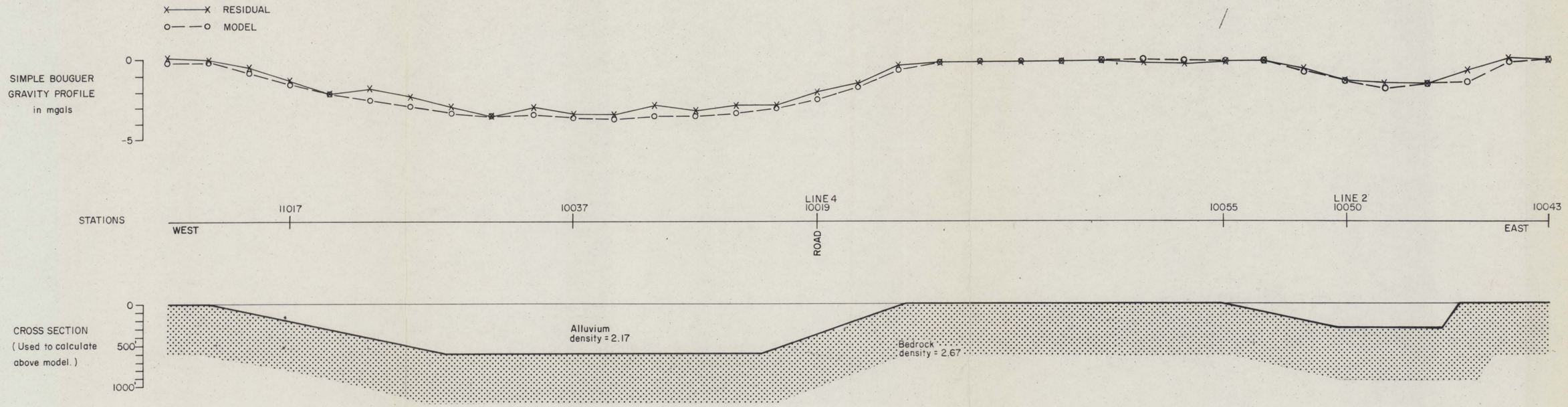
Deputy

MAP
LODE MINING CLAIMS

Burn Out no 4, 2, & 22
S H no 1 thru 13
101 thru 106
201 thru 206
301 thru 306
Sections 1, 2, 11 & 12 T39N R42E

Humboldt County Nevada

3680 0032

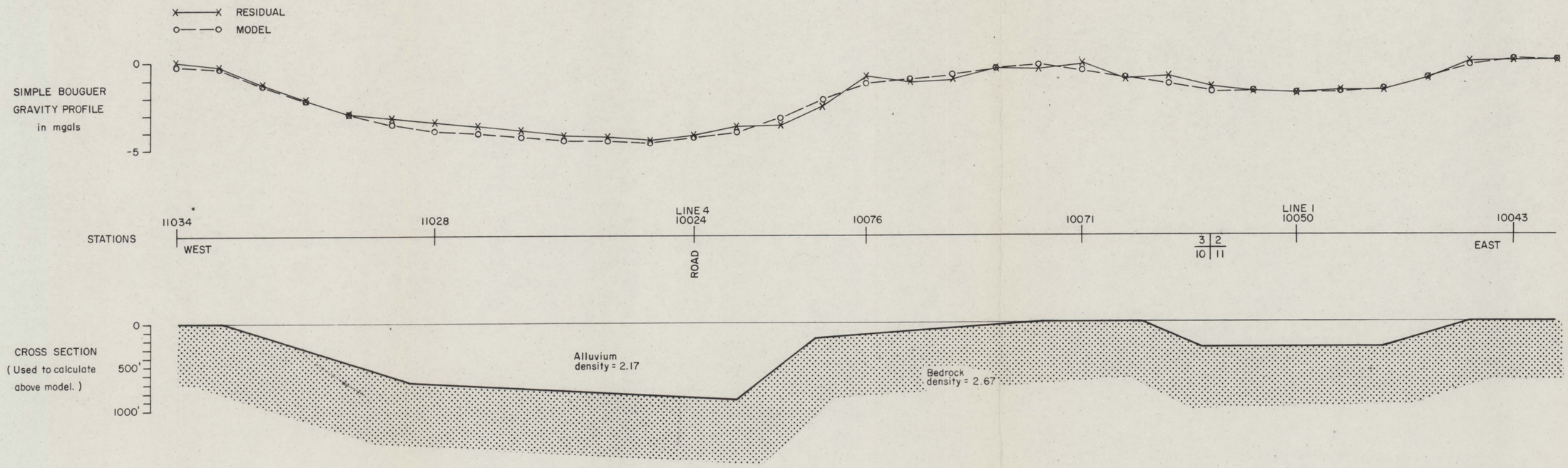


(136) Item 32

STRIPED HILLS
GRAVITY LINE 1

STATE Nevada	COUNTY Humboldt	HORIZ. 1" = 1000'	CONTOUR INTERVAL
conoco	CONTINENTAL OIL COMPANY MINERALS DEPARTMENT METALLICS DIVISION GEOPHYSICS DENVER, COLORADO		
DRAWN BY AIKEN	DATE 12/77	SIZE	FILE NO. GB 306-3a
DRAWN BY	DATE	PROJ. FILE NO.	

3680 0032



(136) Item 32

STRIPED HILLS
GRAVITY LINE 2

STATE Nevada COUNTY Humboldt Hor. 1" = 1000' VERTICAL INTERVAL

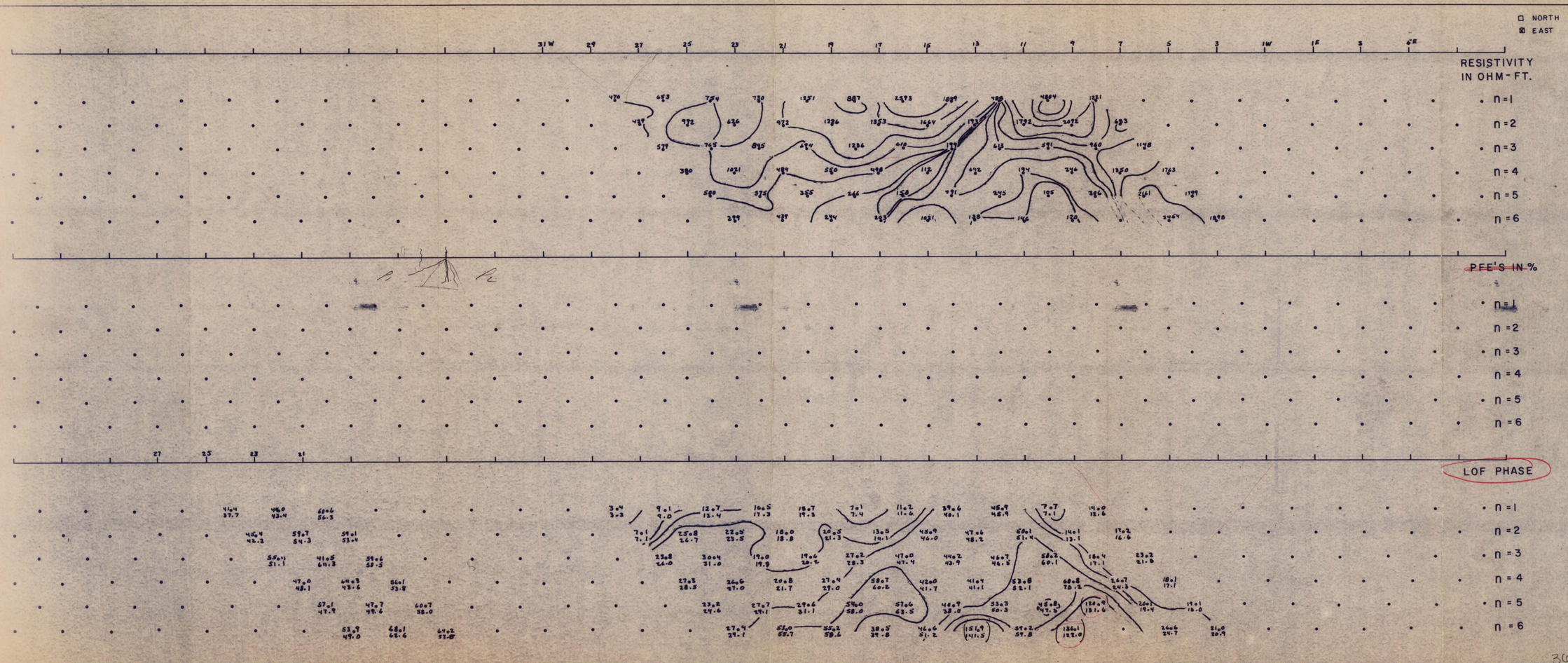
conoco

CONTINENTAL OIL COMPANY
MINERALS DEPARTMENT
METALLICS DIVISION
1000 SOUTH PARK
DENVER, COLORADO

DRAWN BY AIKEN 12/77 SIZE FILE NO. GB 306-3b

DATE DRAWN BY DATE PROJ. FILE NO.

36800032



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

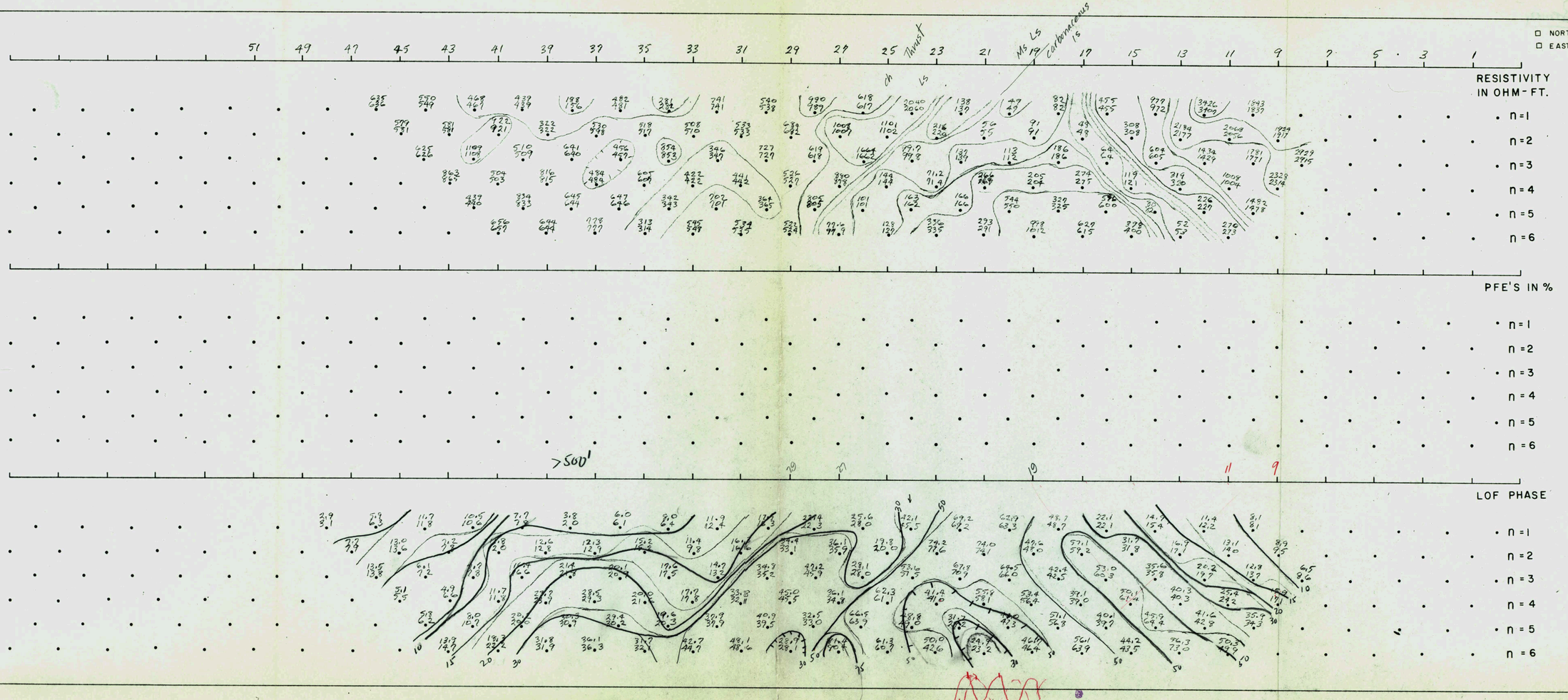
STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: Line No. 0
PARTY: SI Tucson
DATE SURVEYED: 6-24-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 + .2

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50. . . 00

REMARKS:

POWER LINE | PIPE LINE | FENCE | METAL | WOOD

3080 0032 (136) Item 32



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: NEVADA
COUNTY: HUMBOLDT
AREA: STRIPPED HILLS
LINE NO: 175
PARTY: 31
DATE SURVEYED: 10-18-74
DIPOLE LENGTH: 500 FT
ARRAY: DIP-DIP
FREQUENCY: 0.1 & 0.2 HZ

N60W

Sta 13 100' east of ℄

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50...00

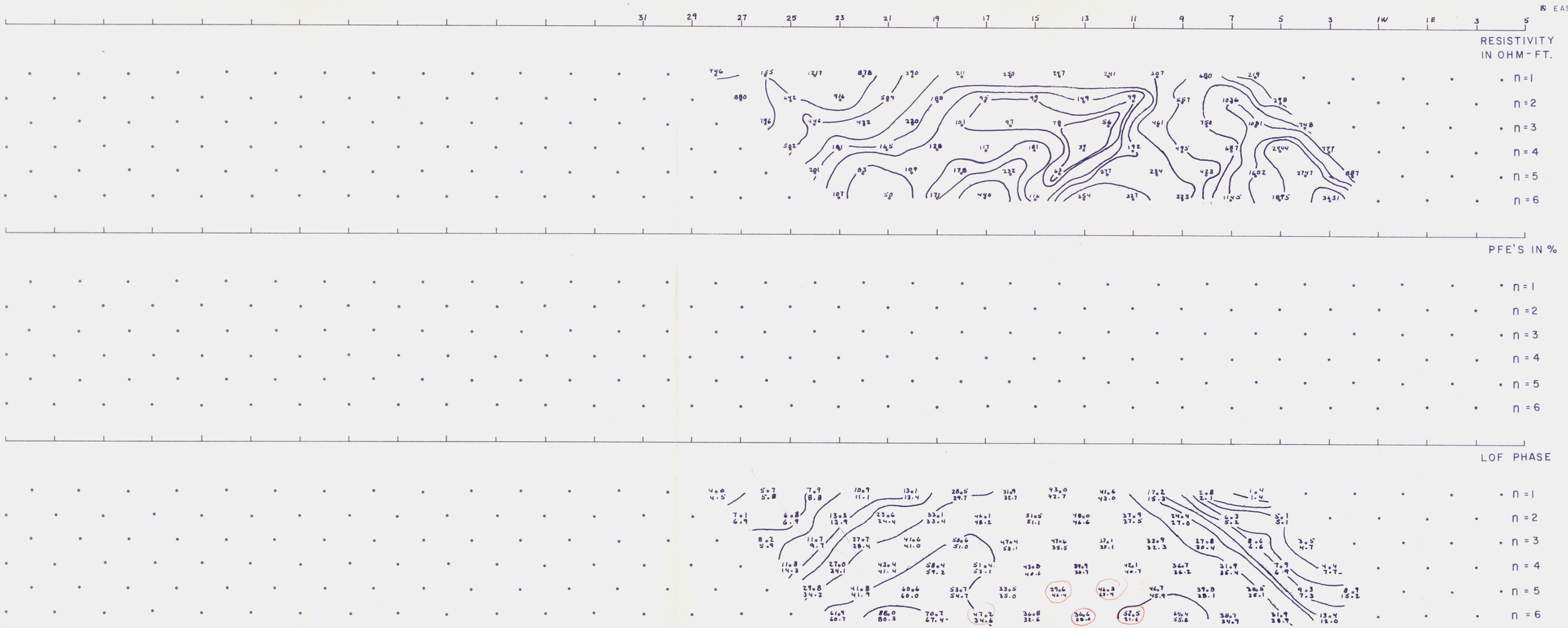
REMARKS:

POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD

3680 0032

136

Item 82



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

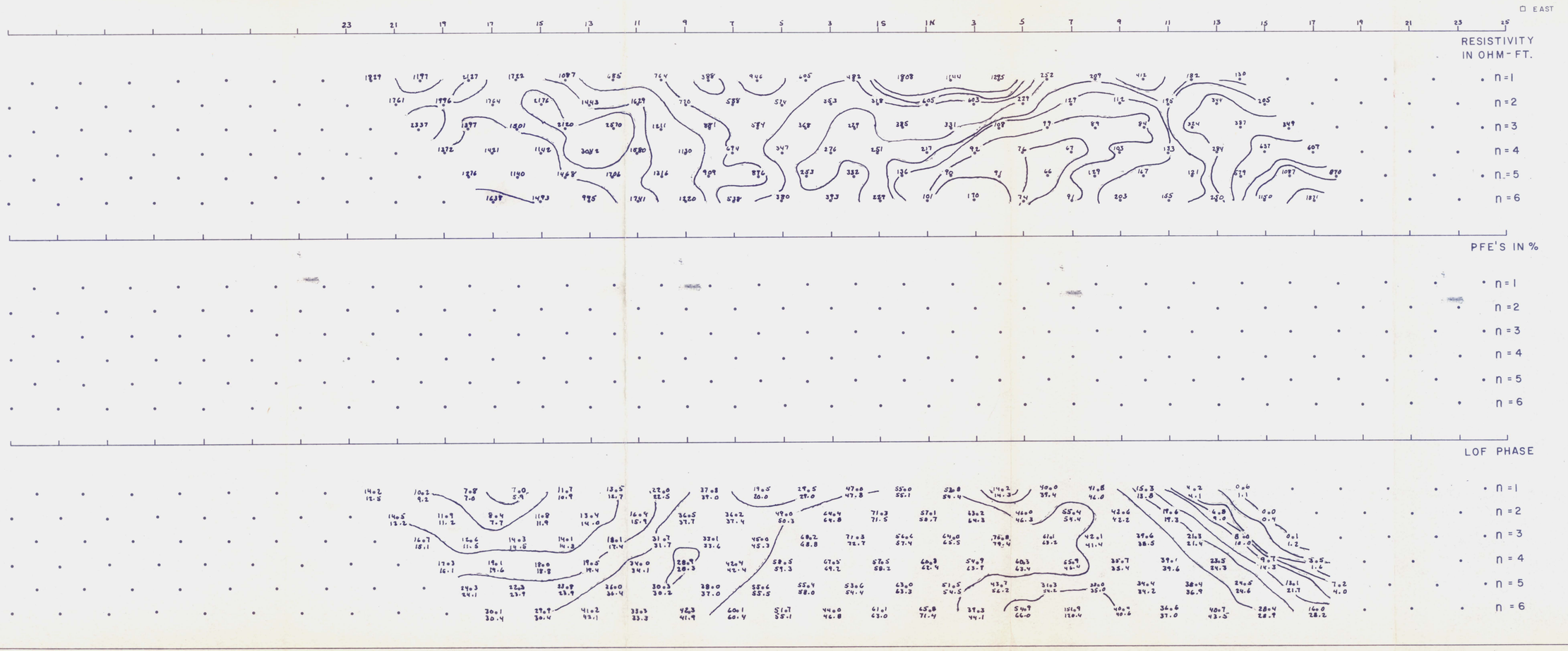
STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 8 N
PARTY: 31 Tucson
DATE SURVEYED: 6-28-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 + .2

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50....00

REMARKS: CPH 5 mon. 150' South - Side #21.
CPH 6 mon. 50 north - side #15.

POWER LINE
PIPE LINE
FENCE
METAL
WOOD

3680 0032 (136)
Item 32



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

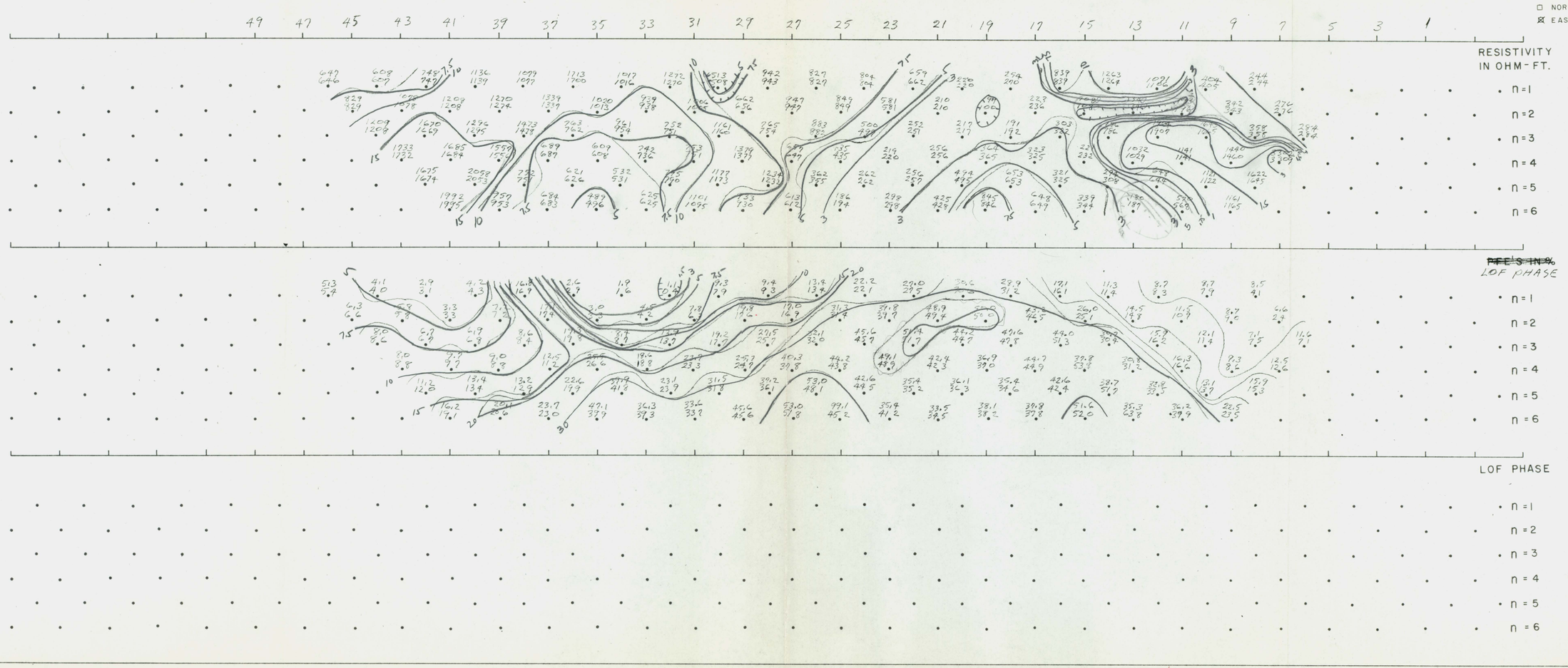
STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 13 W
PARTY: 31 Tucson
DATE SURVEYED: 6-26-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 & .2

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50. . .00

REMARKS:

POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD

3680 0032



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: NEVADA
COUNTY: HUMBOLDT
AREA: STRIPPED HILLS
LINE NO: 19S
PARTY: 31
DATE SURVEYED: 10-16-74
DIPOLE LENGTH: 500 FT
ARRAY: DIPOLE-DIPOLE
FREQUENCY: 0.1 & 0.2 HZ

N86E

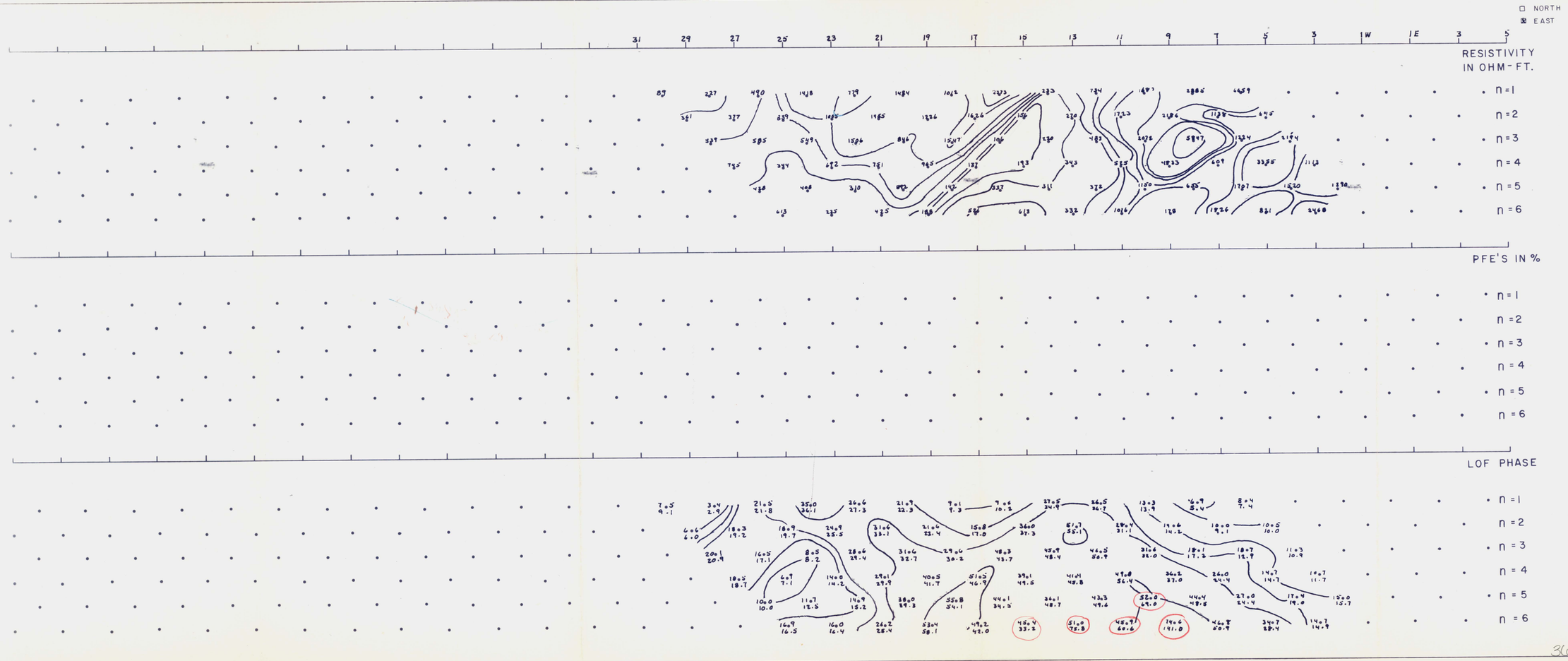
Sta 100' E of ℄

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50...00

REMARKS: RESISTIVITY ON PROFILES 11-9 THRU 23-21 WERE COMPUTED FROM DATA OBTAINED WITH 9800 LOADED WITH GRADIENT ARRAY PROGRAM

POWER LINE
PIPE LINE
FENCE
METAL
WOOD

36080 0032 (136) Item 32



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 7S
PARTY: 31 Tucson
DATE SURVEYED: 6-29-74
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 + .2

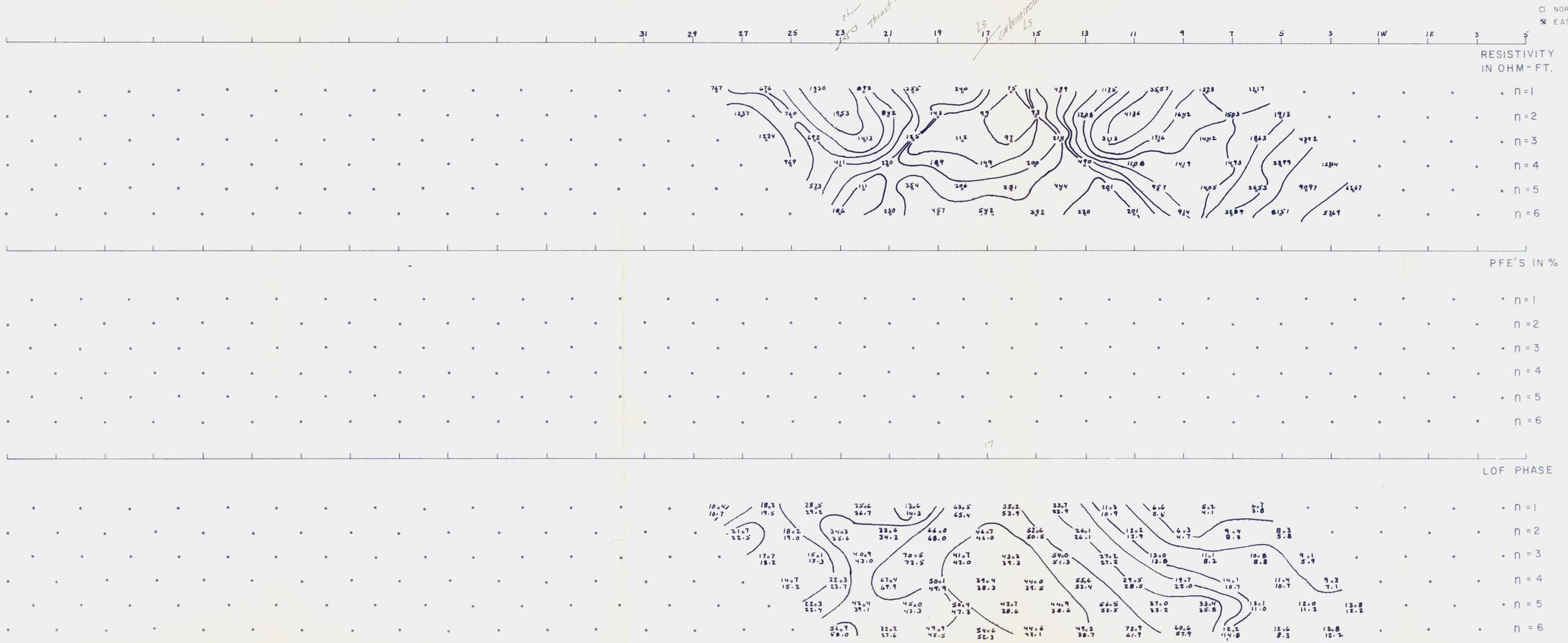
LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50. . . 00

REMARKS:

POWER LINE
PIPE LINE
FENCE
METAL
WOOD

3680 0032

136 Item 32



conoco

INDUCED POLARIZATION & RESISTIVITY SURVEY

STATE: Nevada
COUNTY: Humboldt
AREA: Striped Hills
LINE NO: 13 S
PARTY: 31 Tucson
DATE SURVEYED: 6-29-79
DIPOLE LENGTH: 500 ft.
ARRAY: Dip-Dip
FREQUENCY: .1 + .2

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50 ... 00

REMARKS:

POWER LINE
PIPE LINE
FENCE
METAL
WOOD

3080 0082

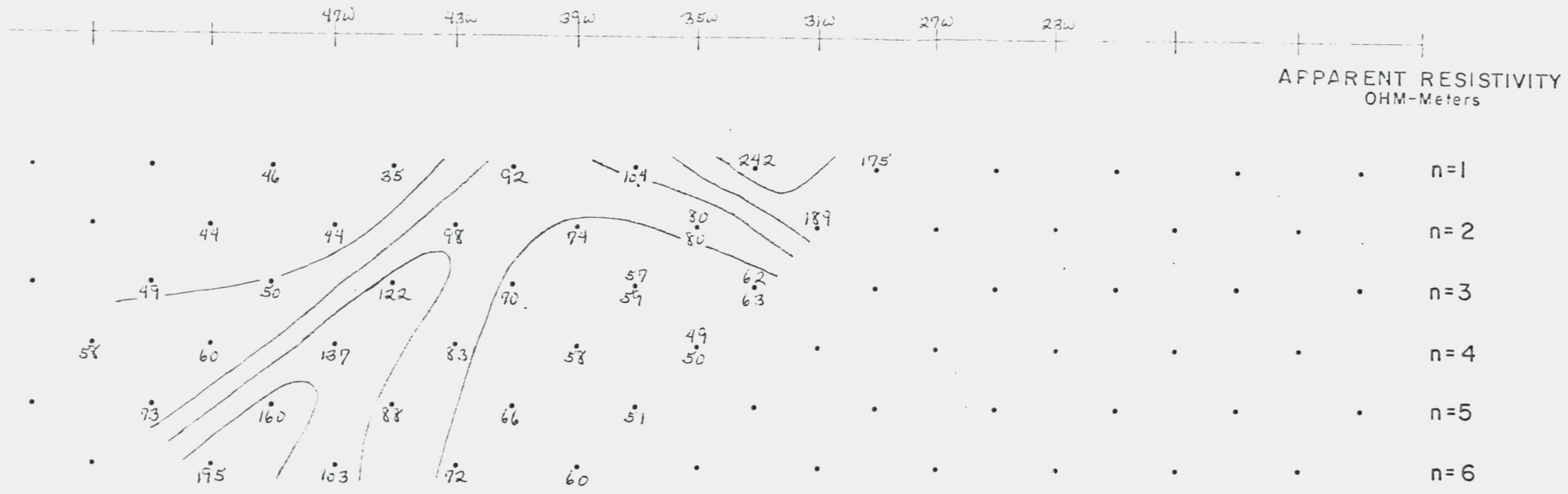
136

Item 32

☐ NORTH
☐ EAST

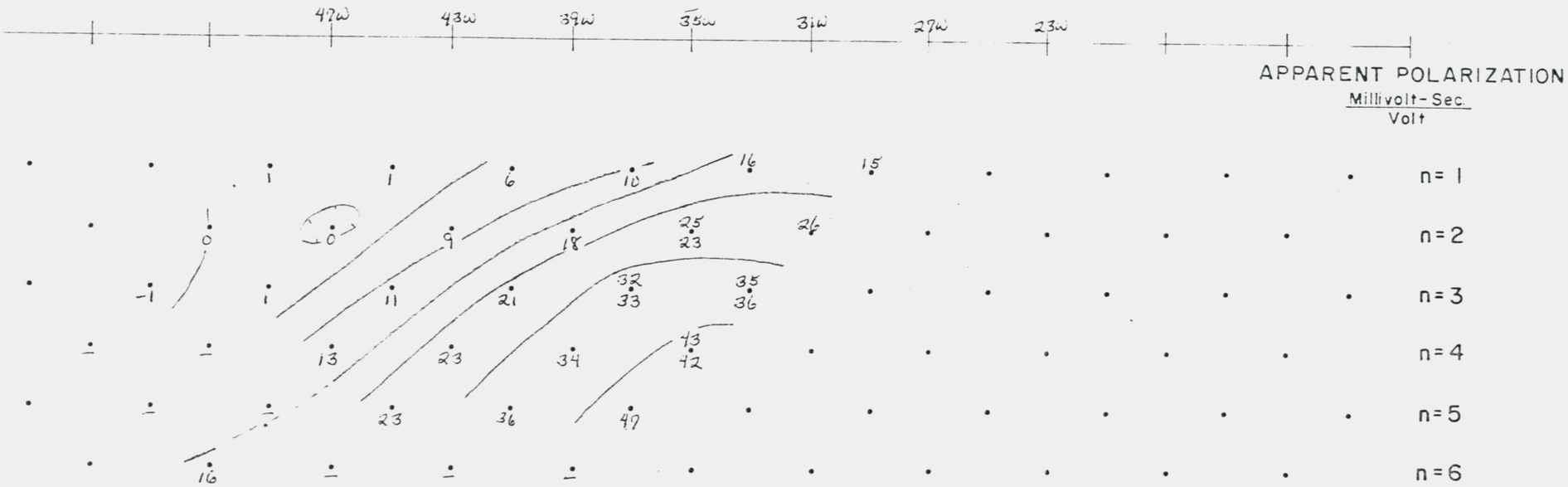
CONOCO

INDUCED POLARIZATION & RESISTIVITY SURVEY



STATE Nevada
COUNTY Humboldt
AREA Striped hills
LINE NO. 0
PARTY Crew #2
DATE SURVEYED Sept. 1976
DIPOLE LENGTH 1000'
ARRAY Dipole-Dipole

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50....OC
(FOR ABOVE SECTION ONLY)



REMARKS:

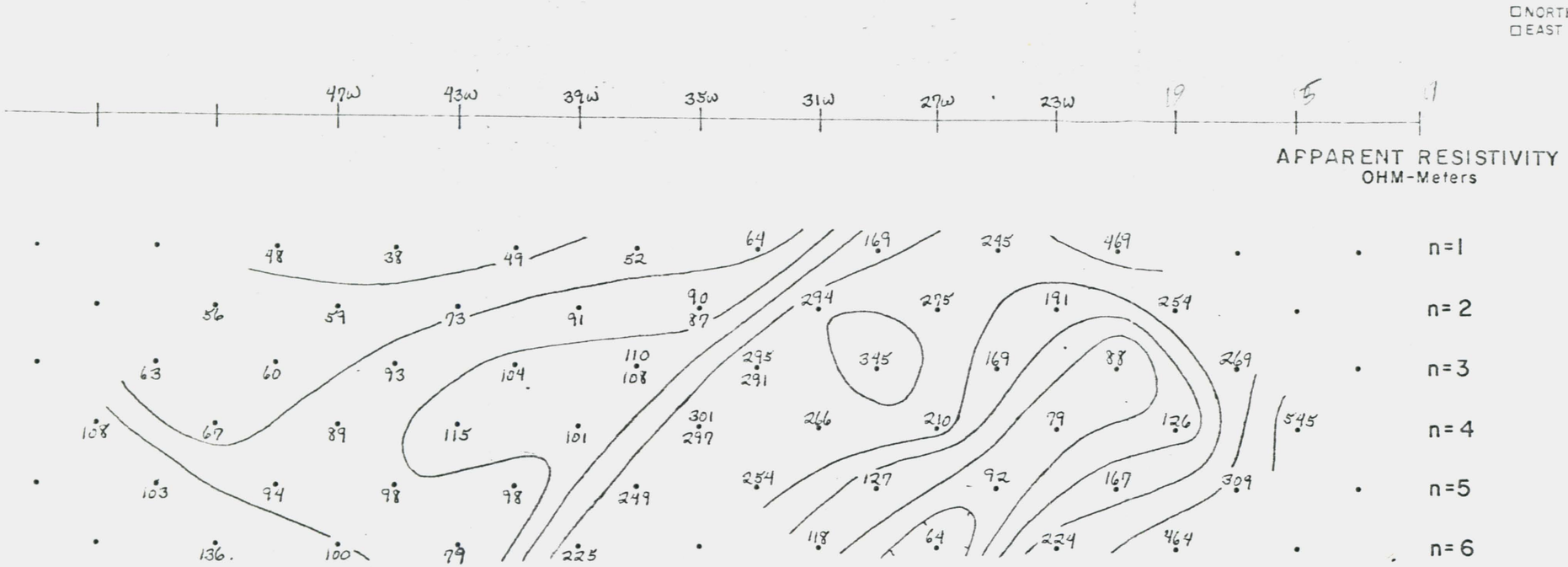
POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD
ROADWAY

3680 0052

136
Item 32

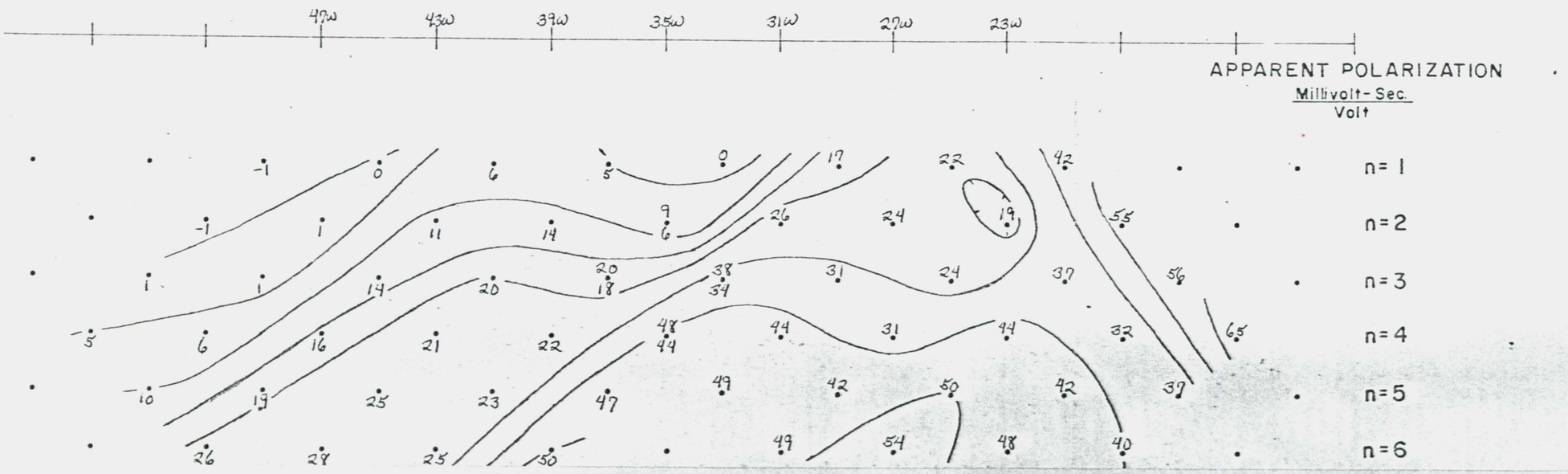
CONOCO

INDUCED POLARIZATION & RESISTIVITY SURVEY



STATE Nevada
COUNTY Humboldt
AREA Striped Hills
LINE NO. 7S
PARTY Crew #2
DATE SURVEYED Sept. 1976
DIPOLE LENGTH 1000'
ARRAY Dipole-Dipole

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50....00
(FOR ABOVE SECTION ONLY)



REMARKS: _____

POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD
ROADWAY

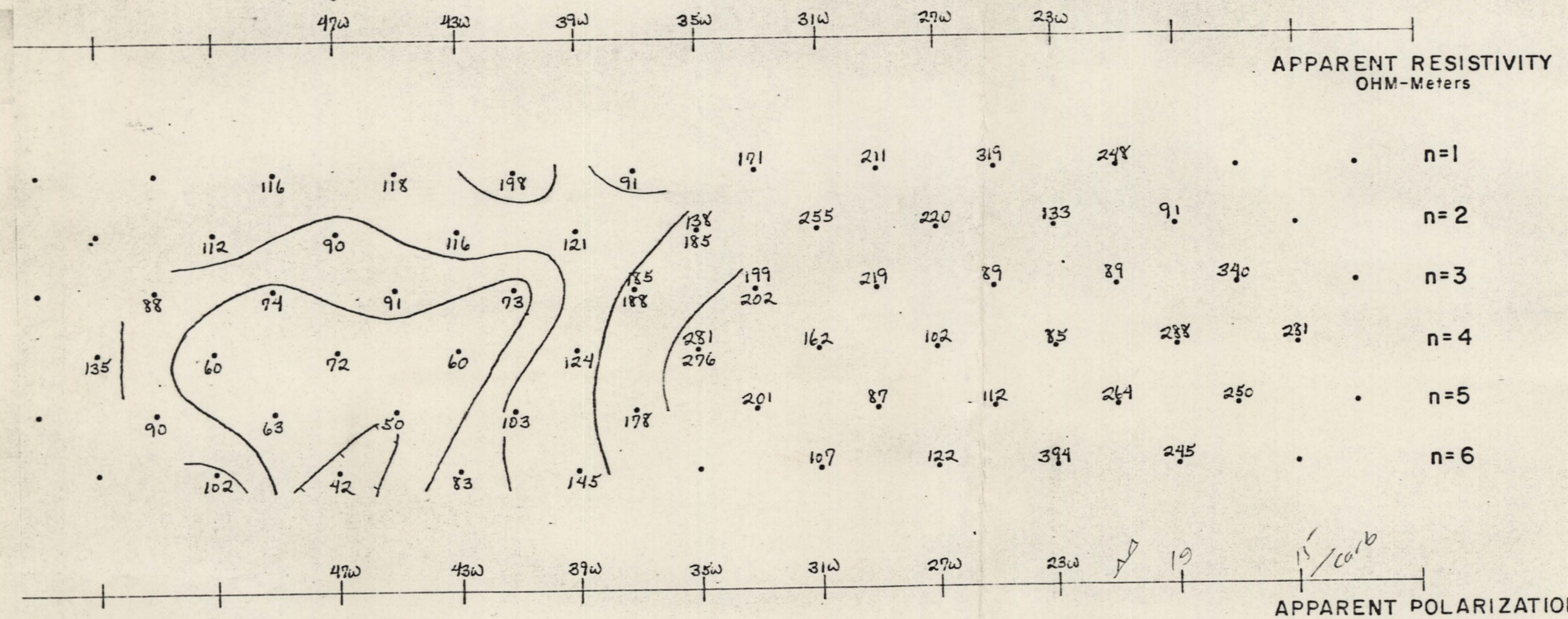
3680 0032

136
Item 32

☐ NORTH
☐ EAST

CONOCO

INDUCED POLARIZATION & RESISTIVITY SURVEY



STATE Nevada
COUNTY Humboldt
AREA Striped hills
LINE NO. 13S
PARTY Crew #2
DATE SURVEYED Sept. 1976
DIPOLE LENGTH 1000'
ARRAY Dipole-Dipole

LOG CONTOURS
1-1.5-2-3-5-7.5-10
15-20-30-50...00
(FOR ABOVE SECTION ONLY)

REMARKS:

POWER LINE
PIPE LINE
FENCE ☐METAL ☐WOOD
ROADWAY

3680 0032

136 Item 32