

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

FOSTER ASBESTOS PROPERTY (Chrysotile)

Josephine County
Illinois River Area

Owner: George C. Foster, Box 152, Kerby, Oregon.

Location: SE $\frac{1}{4}$ Sec. 35 and SW $\frac{1}{4}$ Sec. 36, T. 38 S., R. 9 W. on the northwest side of Josephine Creek between Fiddler and Days Gulches. It may be reached via the road up Josephine Creek.

Area: 4 claims, Black Knight nos. 1, 2, and 3, and Pawn. Pawn and Black Knight #1 were amended lode claims filed in 1950 and Black Knight 2 and 3 were located in August 1953. Foster also has two asbestos claims on Days Gulch in SE $\frac{1}{4}$ Sec. 25, T. 38 S., R. 9 W.

History and Development: The area of the asbestos claims is a part of the area called the Bear Placers, Inc. (see Oregon Department Geology and Mineral Industries Bull. 14-C, Vol. II, Sec. 1, p. 123, 1942 and 1952.) Foster discovered chrysotile asbestos in a 147-foot tunnel on the Black Knight 1 claim dug along the contact of moderately indurated Quaternary gravels with the underlying serpentine. The purpose of the tunnel was to mine gold which usually occurs at the base of the gravels. The Canadian Johns-Manville Company optioned the property in 1953. John C. Gill and John W. Hogan, geologists with this company, prepared a geologic map of the claims and conducted a magnetometer survey. From September to December the Medford Diamond Core Drilling Company, P. O. Box 1415, Medford, Oregon, completed a contract with the Johns-Manville Company to drill 4 exploratory holes. The total footage drilled was 1000 feet.

Geology: Indurated gravels, which could be called conglomerates, of Pleistocene age overlie late Jurassic or early Cretaceous serpentine and

Geology (continued)

serpentinized peridotite on Josephine Creek from its mouth southwestward beyond Fiddler Gulch. These gravels have been mapped by Wells and others (1949) as bench gravels. The principal boulders and pebbles in the conglomerate are serpentine.

Some chrysotile veinlets occur in the 147-foot adit on the Black Knight 1 claim about 70 feet from the portal and a fractured zone about 6 feet wide at the face of the adit contains asbestos veins with various attitudes. Apparently chrysotile has filled fractures in serpentine that are in general parallel to the fault exposed near the portal of this tunnel. This fault strikes N. 25° E.

The geologic maps and drill hole data prepared by the Canadian Johns-Manville Company geologists are not available at this time and can not be included with this report.

References: Wells, F. G., and others, 1949.

Informants: George C. Foster
John C. Gill
John W. Hogan

Report by: D. J. W., March 26, 1954.

NEGATIVES IN FILE G-15

DRILL LOG - GEOLOGY

LOCATION: Kerby, Josephine County, Oregon
 DATE STARTED: October 12, 1953
 DATE COMPLETED: October 26, 1953
 TOTAL DEPTH: 314'

ELEV. OF COLLAR: 1469'
 ELEV. OF BOTTOM: 1155'
 BEARING:
 DIP: 90°

HOLE NO. 1
 PROPERTY: Foster.

FOOTAGE	RUN	CORE RECOVERED	REMARKS.
0-56			Conglomerate - peridotite, serpentine, diorite boulders, cemented by a calcic matrix. <u>NX</u> bit - 0-42.
56-60	4.0	4.0	Well serpentinized peridotite. Grained texture of pyroxenes still showing. BX bit - 42-74. AX bit - 74. AX casing 0-74.
60-70	10.0	10.0	56 - 145. Various degrees of serpentinization with slightly altered to almost completely serpentinized, with the fibre being in the serpentine zones that may vary from several inches to several feet in width.
70-80	10.0	9.0	
80-90	10.0	8.0	
90-100	10.0	8.0	
100-110	10.0	4.0	Badly broken serpentine.
110-120	10.0	8.0	Few thread veins throughout hole.
120-130	10.0	8.0	
130-140	10.0	7.0	145-180 - Serpentine with thin talc seams.
140-150	10.0	6.0	
150-160	10.0	7.0	
160-170	10.0	7.0	170-253 - Sheared serp. and serpentinized peridotite.
170-180	10.0	4.5	
180-190	10.0	6.0	Thread veins.
190-200	10.0	5.0	
200-210	10.0	4.0	
210-220	10.0	4.0	

HOLE NO. 1
PROPERTY: Foster

SHEET NO. 2.

FOOTAGE	RUN	CORE RECOVERED	REMARKS
220-230	10.0	6.0	
230-240	10.0	3.0	
240-250	10.0	6.0	Thread veins.
250-260	10.0	7.0	250-253 - Serpentinized peridotite, sheared and broken serpentine and talc, calcite and quartz stringers.
260-270	10.0	5.0	253-270 Medium to fine grained basic dyke, minor quartz calcite veinlets carbonatized contacts.
270-280	10.0	4.5	270-278 serpentine.
280-290	10.0	5.5	278-288 basic dyke, as above.
290-300	10.0	9.0	288-293 dark serpentine - some thread veins 293-299 - basic dyke.
300-310	10.0	9.0	299-300 serpentine. 300-310 - dyke.
310-314	4.0	4.0	basic dyke - solid core.
			END OF HOLE.
TOTALS	258	168.5	

/s/ J.C.Gill.

PERCENT RECOVERY 65%

DRILL LOG / GEOLOGY, and FIBRE

LOCATION: Kerby, Oregon
DATE STARTED: October 27, 1953
DATE COMPLETED: November 3, 1953
TOTAL DEPTH: 181 Feet.

ELEV. OF COLLAR: 1469
ELEV. OF BOTTOM: 1316
BEARING: 115°
DIP: 57°

HOLE NO. 2
PROPERTY: Fester

SHEET NO. 1

FOOTAGE	RUN	CORE RECOVERED	REMARKS
0-83			Coarse conglomerate, carbonate cement.
83- 83			Unconformity.
83-90	7.0	5.5	Medium grained serpentized peridotite, pyroxenes 1/8".
90-100	10.0	5.0	
100-110	10.0	6.5	Emerald green serpentine slips; broken core, 2 inch pieces.
110-120	10.0	4.7	
120-130	10.0	4.0	
130-140	10.0	6.5	
140-150	10.0	8.0	Fairly solid core.
150-160	10.0	6.8	Serpentinization increases.
160-170	10.0	6.0	
170-180	10.0	6.5	Serpentinite, short sections of peridotite, serpentine and carbonate veinlets.
180-181	1.0	0.5	
181			END OF HOLE.
TOTALS	98.0	60.0	

Percent core 60%

Sludges - almost mil fibre.

/s/ J.C.Gill.

DRILL LOG - GEOLOGY AND FIBRE

LOCATION: Kerby, Oregon
DATE STARTED: November 6, 1953
DATE COMPLETED: November 13, 1953
TOTAL DEPTH: 240 feet.

ELEV. OF COLLAR: 1469
ELEV. OF BOTTOM: 1261
BEARING: 245°
DIP: - 60°

HOLE NO. 3
PROPERTY: Foster

SHEET No. 1.

FOOTAGE	RUN	CORE RECOVERED	REMARKS
0 - 70			Coarse conglomerate, carbonate cement.
70- 70			Unconformity.
70- 80	10.0	7.0	Peridotite, pyroxenes < 3/16, serpentized
80 - 90	10.0	6.0	core considerably broken.
90 -100	10.0	7.0	Peridotite, medium grained.
100-110	10.0	5.0	Peridotite.
110-120	10.0	4.0	Peridotite.
120-130	10.0	9.0	Peridotite.
130-140	10.0	7.0	Peridotite.
140-150	10.0	7.5	Peridotite.
150-160	10.0	7.5	Peridotite.
160-170	10.0	5.0	Peridotite.
170-180	10.0	5.0	1/4" fibre in sludge, 4 times, probably same.
180-190	10.0	3.0	Chiefly dark serpentine, thread veins.
190-200	10.0	3.0	Caving - with fault gouge.
200-210	10.0	6.0	Green serpentine alteration.
210-220	10.0	7.0	Peridotite, firmer.
220-230	10.0	10.0	Peridotite, medium grained.
230-240	10.0	2.0	1-inch white carbonate at bottom
240			END OF HOLE. Dyke contact(?)
TOTALS	170.0	101.0	
Percent core recovery		60%.	

/s/ J.C.Gill.

DRILL LOG - GEOLOGY

LOCATION: Kerby, Oregon
DATE STARTED: November 18, 1953
DATE COMPLETED: November 30, 1953
TOTAL DEPTH: 265 feet.

ELEV. OF COLLAR: 1418'
ELEV. OF BOTTOM: 1188'
BEARING: 245°
DIP: 60°

HOLE NO. 4
PROPERTY: Foster

SHEET NO. 1.

FOOTAGE	RUN	CORE RECOVERED	REMARKS:
0 - 15			Coarse conglomerate, carbonate cement.
15-15			Unconformity
15- 20	5.0	4.0	Medium-grained peridotite.
20- 30	10.0	7.0	Mainly peridotite; minor serpentine.
30- 40	10.0	10.0	Mainly peridotite.
40- 50	10.0	10.0	Mainly peridotite.
50 -60	10.0	7.0	Mainly peridotite.
60- 70	10.0	10.0	Green serp. veinlets increase.
70- 80	10.0	6.0	Numerous slips.
80- 90	10.0	9.0	Fine-grained serpentine thread veins.
90-100	10.0	10.0	Mainly peridotite.
100-110	10.0	10.0	Mainly peridotite.
110-120	10.0	10.0	Mainly peridotite.
120-130	10.0	9.0	Mainly peridotite.
130-140	10.0	8.0	Mainly peridotite.
140-150	10.0	6.5	considerable serpentine.
150-160	10.0	8.5	Dark, serpentized peridotite.
160-170	10.0	6.5	Dark serpentine.
170-180	10.0	7.0	Dark serpentine.
180-190	10.0	4.0	Numerous serpentine veinlets.
190-200	10.0	5.0	Considerable ground core.
200-210	10.0	5.0	Considerable ground core.

DRILL LOG - GEOLOGY

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HEARING: 245°
DIP: -60°

HOLE NO. 4
PROPERTY: Foster

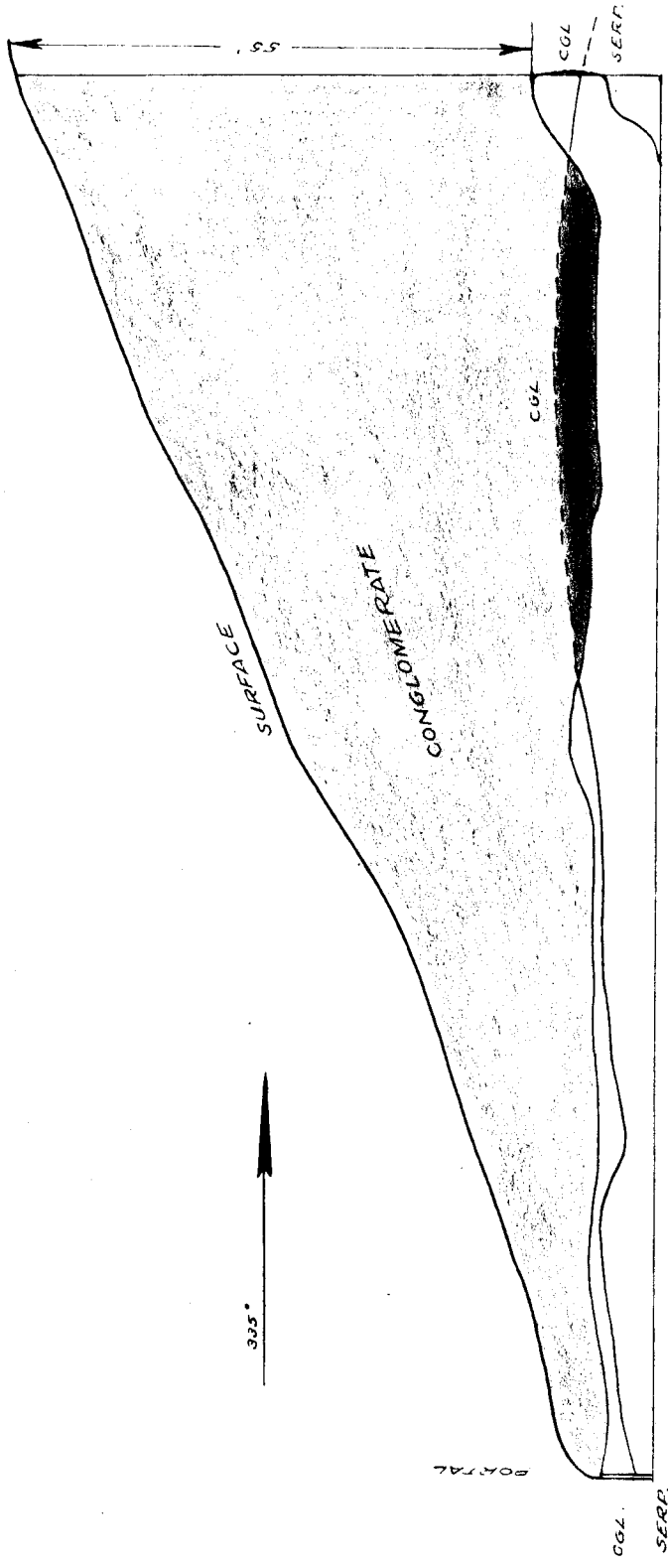
SHEET NO. 2.

FOOTAGE	RUN	CORE RECOVERED	REMARKS:
210-220	10.0	3.0	Mainly serpentine - ground core.
220-230	10.0	6.0	224-230 gabbroic dyke or inclusion (?)
230-240	10.0	10.0	Dyke, talcy contact.
240-250	10.0	9.0	Dyke.
250-260	10.0	6.0	253-255 serpentine.
260-265	5.0	2.5	Mixed dyke and serpentine.
265			END OF HOLE.
TOTALS	250.0	189.0	Remarks - "dykes" may be a meta-gabbro predating peridotite. Fiberized parts of core are markedly more magnetic than the average.

Percent Recovery - 76%.

/s/ J.C.Gill.

Foster



JOSEPHINE COUNTY, OREGON
LONGITUDINAL PROFILE OF FOSTER ADIT

ADIT IS ON BEARING 335°

Scale: 1" = 20'

GEOLOGY by: J.C.Gill & J.W.Hogan

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15

11-28-60
Name & Loc. Also table mapping

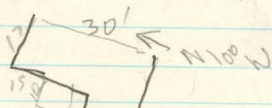
Foster Asbestos

- A-2 center road period float
- A-3 " " " "
- A-9 " " 60' S of curve " "
- A-10 Edge ditch curving " "
- A-11 5' S of creek & 5' W of rd edge
about 40' NW of pit hole #1.
- A-12 center of rd.
- A-13 SW cor of house → N 65° E
about 25 X 40
- A-14 edge of terrace back of house
large boulders red clayey soil & gravel
15' to south rim heads west 15'
Then SW into gully
- A-15 edge of terrace.

11-2-60 Foster asbestos

Sta B from A

- B-1 center road
- B-2 ^{creek} on DD hole #1 45° E ↓ N
- 3
- 4. center rd. in front of yard
- B-5 = N corner of fence yard
- 6 = N corner bldg (shop) → N 78° E
- 7 = SW cor " " "
- 8 SW " house (porch) →



- B-9. sw. car fence
 B-10. ditch
 B-11. ditch
 B-12. ditch
 B-13. junction of ditch & gully
 B-14. curve in ditch

11-2-60

knob blocky scarp 20' s of:
 D-9 - boxwork breccia zone.
 10' E of contact with gravel
 boxwork zone \rightarrow W, dips
 steeply N.?

D. 10 = 10' sw ^{place} of gully & edge
 of bench. Thin cover gravel

D-11. ~~E~~ ^{ad} shear zone in light
 green to tan stained dunite scarp

D-12. gully placed wash
 edge bench

D-13. ^{small} ridge edge bench

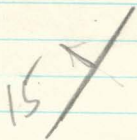
D-14. gully close to str. A
 placer wash base of
 gravel.

D-18. small (10") pine beiser
 trail on 20° slope
 gravel

D-20 2' fir tree on
gravel slope

D-21 gully, p/acer cut
runs 50' up hill from
point up to 14' deep
20' wide

2-22 creek below dump
sheared dunitic sep. $\approx N 30^{\circ} E$
near vert steep dip W.



RECORD IDENTIFICATION
 RECORD NO. M013652
 RECORD TYPE XIN
 COUNTRY/ORGANIZATION USGS
 FILE LINK ID CONSV
 DEPOSIT NO. DDGMI 100-332
 MAP CODE NO. DF REC..

REPORTER
 NAME LEE, W
 DATE 74 01
 UPDATED 81 02
 BY FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION
 DEPOSIT NAME FOSTER ASBESTOS (BEAR PLACER)
 MINING DISTRICT/AREA/SUBDIST. ILLINDIS RIVER

COUNTRY CODE US
 COUNTRY NAME: UNITED STATES

STATE CODE OR
 STATE NAME: JREGON

COUNTY JOSEPHINE
 DRAINAGE AREA 17100311 PACIFIC NDRTHWEST
 PHYSIOGRAPHIC PROV 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION 41

QUAD SCALE 1: 62500
 QUAD NO OR NAME CAVE JUNCTION

LATITUDE 42-13-04N
 LONGITUDE 123-43-04W

UTM NORTHING 4674000
 UTM EASTING 440750
 UTM ZONE NO +10

TWP 38S
 RANGE 09W
 SECTION 35 36
 MERIDIAN N.M.

COMMODITY INFORMATION
 COMMODITIES PRESENT ASB

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 1

DESCRIPTION OF DEPOSIT
FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR
HOST ROCK TYPES..... SERPENTINE

GEOLOGICAL DESCRIPTIVE NOTES. SERPENTINE BEDROCK UNDERLIES 100 FEET OF CEMENTED PLIESTOCENE BENCH GRAVEL.

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: JOSEPHINE PERIODOTITE
AGE: JUR

GENERAL REFERENCES

- 1) ORE BIN, VOL. 27, NO. 3, P. 50
- 2) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, P. 39.

Insta Station	Rod Station	Hor Distance	HI	HR	Vertical Reading	Diff. Elev.	Station Elev.	
A	—	—	—	—	—	—	1507	
A	A1	27'	1510.5	3.5	—	-3.5	1507	center of road
	A2	204	1510.5	9.7			1501	center of road
	A3	150	"	4.3	+12	-4.3	1518.2	center of ditch above transition
	A4	269	"	4.3	+24.5	-4.3	1531.7	hillside
	A5	93	"	4	+2.7	-4	1508.2	ditch between road
	6	99	"	3.5	+3	-3.5	1510	road-ditch jet.
	7	220		4.5	+11	-4.5	1517	center of road
	8	338		5	+17	-5	1522.5	"
	9	627		4.1	+26.5	-4.0	1533.0	"
	10	409		9.0	+8.2	-9.0	1509.3	Ditch
	10A	198	"	11.0	+11	-11	1507	"
	11	240		9.5	+2.5	-9.5	1502.5 1498.5	? southeast toward ditch
	12	220		6.0	+2.5	-6	1504.5 1502	? center of road
	13	230		7.5	+4.0	-7.5	1507 1499	? SW corner of house
	14	270		10.5	-7	-10.5	1507 1493	? bluff behind of house
	15	190		9.5	-6.0	-9.5	1507 1495	? edge of bluff
	16	100		7.8	-4.2	-7.8	1507 1498.5	? center of ditch
	17	140		5.65	-2.0	-5.5	1507 1503	? edge of bluff
	18	130		5.65	-2.0	-5.5	1507 1503	? "
	19	140		5.0	-1.5	-5	1506 1504	? Top of head of parallel of road
"B"	"A"	440	Elev. 1511.6 HI 1514.6	5.3	-2.3		1507	O.K. just NW of house
B	B1	210	1514.6	8.0	+5	-8	1511.6 1507.6	? center of road
	2	119.5		11.3	-6	-11.3	1497.6	Nicolet ditch just west of hill
	3	90		7	-4	-7	1503.6	Nicolet drill hole #1
	4	58		6.2	-3.2	-6.2	1509.2	center of road
	5	105		3	-4	-3	1507.6	Fence corner
	6	170		7.4	-4.4	-7.4	1502.8	? corner of shed
	7	170		6.9	-3.9	-6.9	1503.8	? SW "
	8	130		5.3	+1.3	-5.3	1510.6	? SW corner of house
	9	172		1.0	-2	-1	1511.6	SW " of fence
	10	230		4.3	+4.6	-4.3	1514.3	Ditch
	11	148.5		10.2	+4.2	-10.2	1508.6	center of ditch
	12	115		4.7	+5.7	-4.7	1515.6	" " "
	13	132		6.4	+5.6	-6.4	1513.8	intersection of ditches
	14	164		8.8	+9.6	-8.8	1515.4	bend in ditch
A	16	280		9.6		-9.6	1505	Nicolet drill hole #2

1500
1348
150

Inst Station	Rod Station	Hor Distance	#1	HR	Vert Reading	Diff in Elev	Station Elev.	Remarks	
B	C	190	1514.6	9	-5.7	-5.7 - 9	1501	Station C	
C	B	190	1504	2					
C	C1	190	1504	8	+9.5	- 8	1505.5	Drill Hole #2	
"	2	196	—			+ .5	1505	SE corner edge of house	
	3	106	1504	9.6		-9.6	1477.5	center of gully	
	4	190	"	10.5	-10.5	+19.5	1512.5	Station B	
C	5	166	"	11.5	-37.4 28	-11.5 48.9	1455	Station "D"	
	6	160	"	11.4	6x1.6	-9.6+11.4	1483		
	BM 7	410	1504	6.6	2x4.1	+12.3 - 6.6		Station A	
	8	160	1504	6.1	3x1.6	+6.4 - 6.1	+ .2	1504.3	edge of terrace
C	D		1504	11.5	28	-43.7'	49'	1455	
D	C	156	1458	4.2	77-50-27	(2)	+42 - 4.2	1501	
D	D1	99	"	7.5	73	^{23x1} +23 - 7.5		1473.5	JM drill hole #1,2,3
	2	206	"	11	35	^{15x2.1} -30.1	-30.1 - 11	1417	" " " #4
	3	119		12.5	19	^{31x1.2}		1405.3	Tunnel entrance
	4	207		11.2	26	^{24x2.1} -52.8	-52.8 - 11.2	1394	dump
	5	137		12.0	19	^{31x1.5} -47.8	-47.8 - 12	1398	shear zone ^{portal} near
	6	49		12.0	34	^{16x1.5} -8.7	-8.7 - 12	1437.6	shear zone to north
	7	120		1.8	—		-1.8	1456.2	center of shear
	8	216		8.5	74	55.2	+55.2 - 8.5	1504.7	
	9	208		6.4	56	^{6x2.1} +12.6	+12.6 - 6.4	1464.2	20' south of brecciated zone
	10	223		8.0	52	^{2x2.2} +4.4	+4.4 - 8	1454.4	
	11	150		-9.3	50	—	-9.3	1448.7	
	12	120		8.6	45	^{-5x1.2} -6	-6 - 8.6	1443.4	
	13	90		5.3	52	^{2x.9} +1.8	+1.8 - 5.3	1454.5	
	14	23		11.3	40	^{-10x.77} -2.3	-2.3 - 11.3	1445.5	
	15	30		9.2	39	^{-11x.3} -3.3	-3.3 - 9.2	1446.5	
	16	65		10	19	^{-31x.65} -20	-20 - 10	1428	
	17	140		2.6	50	—	-2.6	1455.4	
	18	210		8.5	50	—		1449.5	
	19	348		6.0	57	^{7x3.5}	+24.5 - 6	1476.5	
	20	315		6.6	38	^{12x3.2} -39	-39 - 6.6	1412.4	
	21	295	9	11	34	^{16x3} -48	-48 - 11	1399	
	22	234		7	24	^{26x2}	-59.8 - 7	1391.2	
	23	401		7	26	^{24x4.3} -103.2	-103.2 - 7	1348	