Main Kelly Graphic fault?
Argillite ("Greenstone")
West member of Kelly-Graphic fault
"Greenstone" or lamprophyre dikes (Along same fault as on the upper level?)
Old stope caved to surface
Raise filled
Raise to stope
Tube like stope
Network of ZnCO3
Partly oxidized galena
Fault ? Sandia (l.q.)
"Sp"?
Raise to stope
Stopes below old PbCO3 stopes
Stope
Marbleized ls
Raise to ore
LEVEL 4
Lamprophyre dike
Bottom of old lead carbonate stope
Filled stope
Stope
Along minor fault or fissure
Inclined-winze stope
Fissure with pyritic quartz
Incline above level 5
Pyritic qtz
Sulphides
No. 1 CROSSCUT
Open fissure marbleized lime
Old filled stope above. Below ZnCO3 veins cut
Fault
"Sp"
Along qtz-galena below "Sp"
Ore also above "Sp"
Stope
No. 1 CROSSCUT Filled
Lower Kelly
Kelly Sandia lower qtzte
Follows dip (35°) (Caved)
No noteworthy minerals top of Kelly
Along shale
90.9' below portal
"Silver pipe"
LEV. 5
Qtz. Shale
Floor of silicified limestone
Drift extends beneath tube-like stope along fissure
LEVEL 6
Upper Kelly
LEVEL 5
Mineralized fissure
"Silver pipe" replaced by zinc carbonate
Quartz floor below stope
Quartz above "silver pipe"
Argillite? Base of Kelly limestone
"Marbleized? limestone"
Bedding stope
Mineralized (oxidized)
Fissure, tight mineralized
Bed stope
LEVEL 3
"Sp"
N. Juanita
Mineralized fissure
Dike
Raise to stope
29° N.5°W.
"Silver pipe"
Qtz. along faults
Qtz. along fault
WINZE (35 feet deep)
Dike along fault
N.15°W. 77°
Lower Kelly
Barren
Dike 57°
Small stope in quartz-barite casing; rises along fissure
Fissure Dike
Stope
CROSS SECTION AT STOPE
Argillite
Fault
N.10°W. 80°
Replacement quartz and iron-stained limestone
Up. Kelly sil.
Lamprophyre dike
"Sp"
Quartz and shale
Pyritic argillite
N.30°W. 85°
Open oxidized fissured ground with ZnCO3 on side of drift
Drift ends at fissure
200'
JUANITA TUNNEL
Quartz-ore vein
Fissure contains calcite and sulphides
Fault drops "silver pipe" about 5 feet on east side
60°
Little sulphide below "silver pipe"
"Sp"
Heavy ground caused by faults with down-throw to east
"Silver pipe"
38°
"Sp"
Fault
"Sp"
"Sp"
Vein (benching)
Vein
Calcite veinlets (vertical)
LEVEL 7
"Sp"
"Silver pipe"
Little ore in raise
60°
Fault
Hanging wall shattered. Fault contains iron oxide, clay, and pink calcite
"Sp"
LEVEL 9
A little ore reported in raise
Fissure with quartz, barite, a little pyrite, and some iron oxide
Lamprophyre dike on south side of vein faulted thus:
SECTION
82°
80°
85°
85' W. of Sta. 910
Dike 4 feet thick
34°
Considerable copper in K-G vein
K-G vein
Considerable copper
Stope above level 3
K-G fault
Sta. 235
Caved. Little ZnCO3
Sta. 233
On lev. 3
Old filled stope
Filled stope
7,666.9'
"Sp"
BROWN FAULT
30°
76°
BILLINGS SHAFT
LEV. 4
37°
B'
Pillar
Filled stope along "s p" on lev. 3
"Sp" on level 4
PbCO3
ZnCO3
ZnCO3 along fault
Vein
7,541'
7,522'
7,556'
Oxidized ore along fault
Same fissure
PbS-PbCO3
Below "Sp"
7,666.2
KELLY TUNNEL
LEVEL 6
Offset 38' by normal bedding fault along "s p"
Lamprophyre dike above "s p"
Strong fissure along dike. No faulting
80°
7,461.0'
7,454.5'
81°
7,410.3'
"Sp"
LEVEL 7
35°
"Silver pipe"
Calcite veinlets with iron stain
7,365.0'
75°
N.10°W.
Fault
80°
58°
N.55°W.
N.30°E.
7,420.8'
7,326.5'
LEVEL 7
A little ore
LEVEL 8
Argillite
Basal Kelly
Upper Kelly
Sandia (L.Q.)
Sulphides below "s p"
Raise along vein
Ore streak
"Sp"
Calcite veinlets in "s p"
TRAYLOR SHAFT
Altitude of collar 7,758.8'
B
Quartz Sulphide
7,758.2'
LEVEL 2
LEV. 1
7,700
7,792.2
Stope on level 0
LEVEL 0
56° N.25°W.
Sul. veinlet
Big Twenty stope
LEVEL 3
CROSSCUT 4
26° ALONG CROSSCUT
7,657.6
7,736'
N. end of crosscut
65°
73°
LEVEL 3
CROSSCUT 5
S.35°W.
7,670.8'
70°
Qtz-Sul. veins PbCO3 over sulphide ore
STA. 295
Fault
38-foot drop on winze
? Fissure
Stope
"Sp"
"Sp" on level 5
7,558.9'
53°
7,563'
7,485'
Along "s p" top of Kelly
A'
LEVEL 3
Caved Sulphide
7,672.5'
"Sp" on lev. 3
N.25°W.
FAULT
ZnCO3
Upper "s p"
33°
Sulphide ore
LEVEL 6
28°
"Sp" below lev. 5
Filled stope
Fissure on level 6
25°
Old filled stope
32°
47°
45°
Fissure
A few thousand tons of PbCO3 ZnCO3 mined
"Silver pipe" on level 3
7,682.0
Caved
Stope
Upper Kelly
Small body of good ore in lower Kelly
Vertical 6-inch drop on winze
45°
BROWN
LEVEL 5
LEVEL 6
"Sp" on lev. 6
Cherty bed Little sulphide
Shale
Lower quartzite Sandia formation
40°
Lamprophyre dike on level 6 above "s p"
Fissure on level 6
Pocket with calcite scalenohedrons
Marbleized limestone
"Sp"
Sta. 487
37°
Sta. 484
A
PASCHAL SHAFT
Sta. 455?
"Sp" on level 4
7,579'
7,510.5'
Stope
Above base of lower Kelly
LEVEL 6
34°
7,484'
Upper "s p"
LEVEL 6
6°
7,489
65°
45-50°
"Silver pipe" on level 6
Dip 31° along "s p"
Z
LEVEL 7
"Sp"
Argillite on level 7
7,388'
38°
"Sp"
Mineralized fissure
Thin mineral streak
Argillite
K-G cross fault
Lower quartzite Sandia form.
LEVEL 4
LEVEL 6
Copper stain along fault
65°
Inaccessible
7,535.2'
Ore veinlets
Calcite veinlets
Lower "silver pipe"
45°
Lamprophyre dike below "s p"
40°
38°
Lamprophyre dike above "s p"
"Silver pipe"
7,497.5'
7,555
Bedding fault along "s p"

GEOLOGIC MAP AND WORKINGS OF THE KELLY AND JUANITA MINES

Sections A-A′ and B-B′ shown in figures 14 and 16

50 0 250 Feet