

Appendix B

Pembina's Suspended Brine Mining Caverns

Proposed For Conversion to Storage Sonar Images



Cavern 7

Dow HC No. 7, Moore - 25 - XI

License T003916

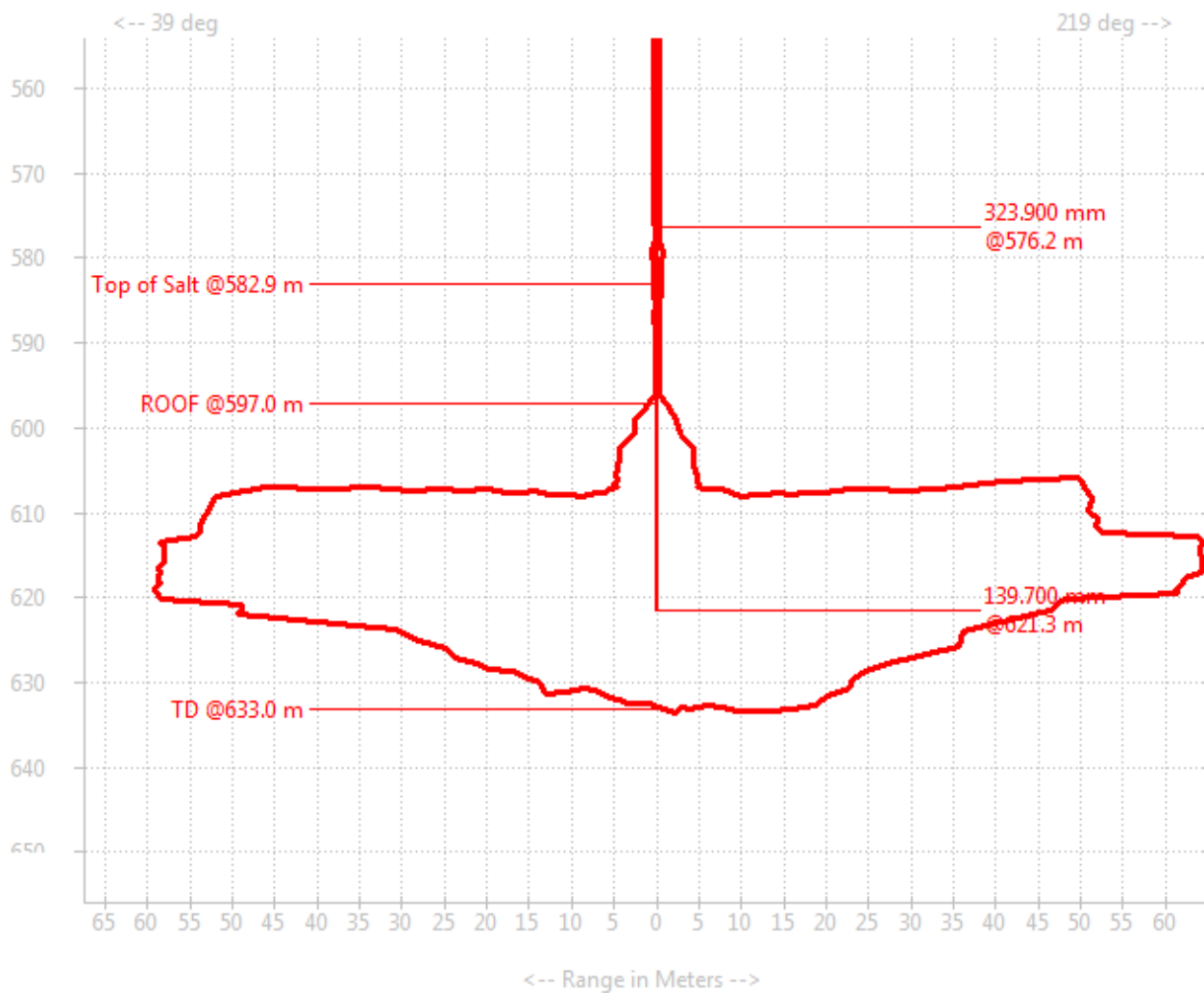
Cavern volume (169,000 m³) diameter (125 m).

Cavern has over 25 m of roof salt.

DOW CHEMICAL CANADA INC.
SARNIA, ONTARIO

SONARWIRE, INC
Vertical Cross Section

WELL No. HC-7
HC7-0707mg Wed, Jul 18, 2007





Cavern 9

Dow HC #9, Moore - 25 - XI

License T006622

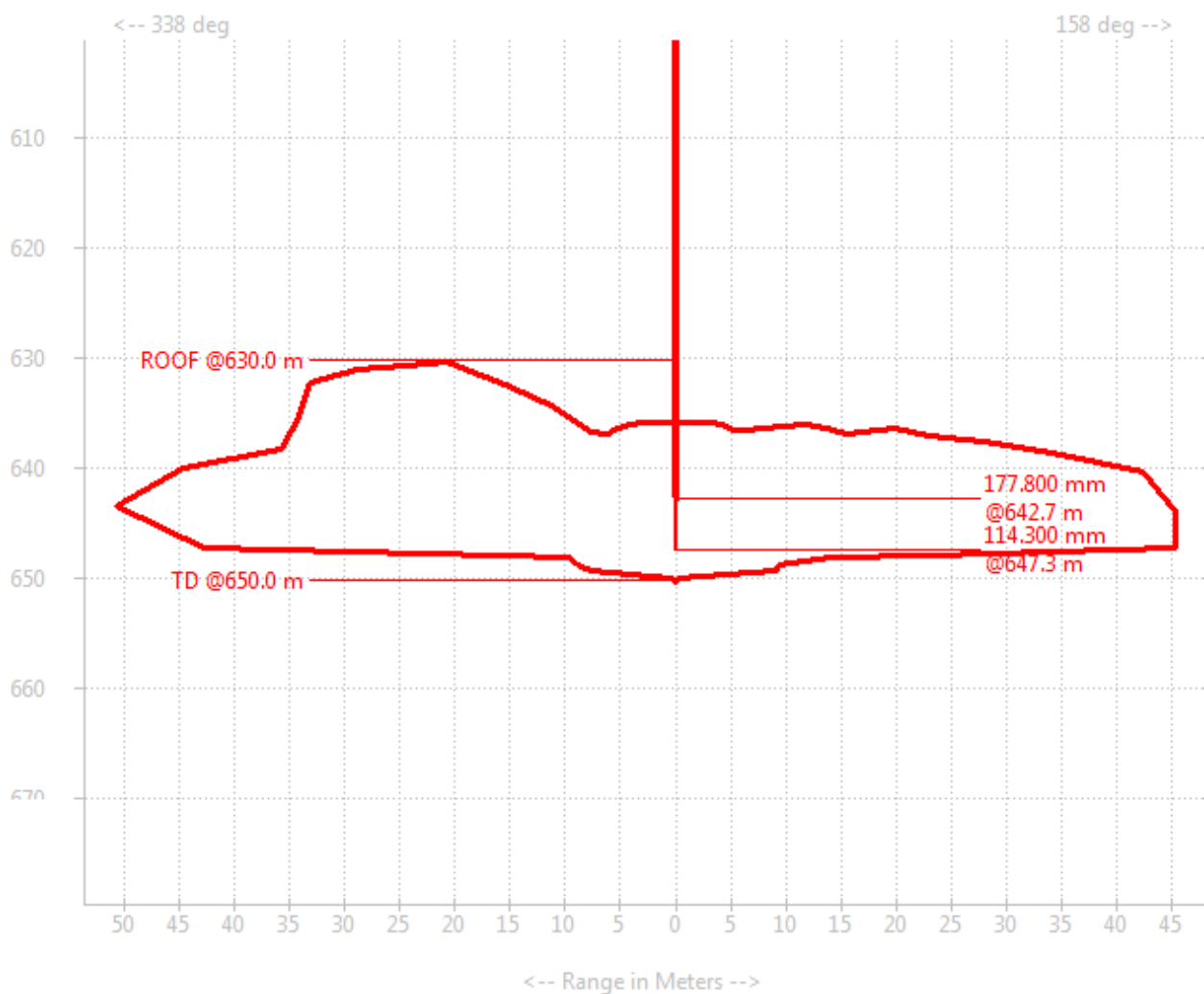
Cavern volume of (66,000 m³) with a diameter of 95 m.

The cavern has over 35 m of roof salt and could handle vertical growth.

DOW CHEMICAL CANADA INC.
HYDROCARBONS STORAGE

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL # HC-9
HC9-9204 APRIL 9, 1992





Cavern 10

Dow HC #10, Moore - 25 – XI

License T006620

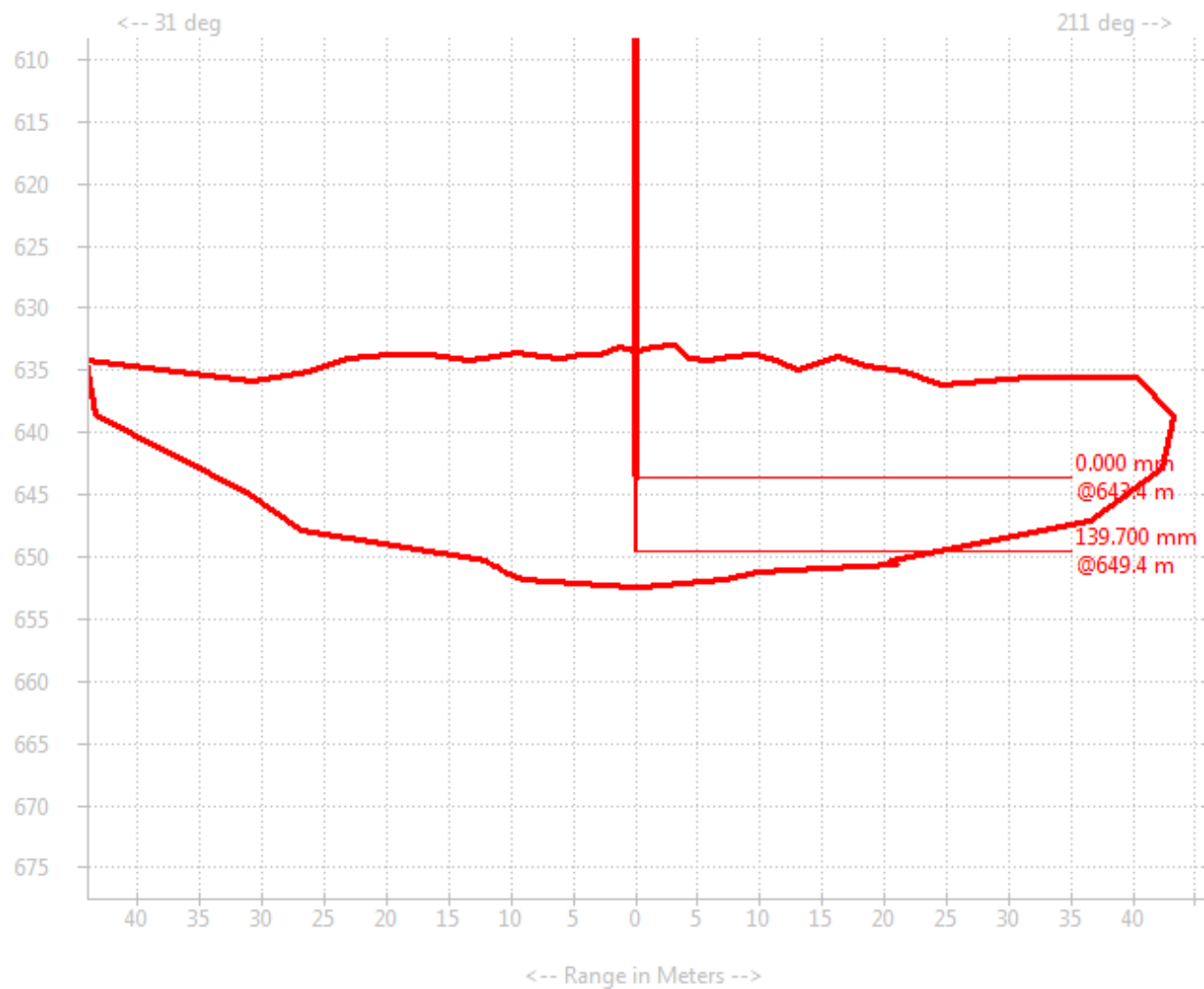
Cavern has a volume of 66,000 m³ with a diameter of 90 m.

The cavern has over 50 m of roof salt and could handle vertical growth.

DOW CHEMICAL CANADA INC.
HYDROCARBONS STORAGE

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL # HC - 10
HC10-9204 APRIL 9, 1992





Cavern_11

Dow HC #11, Moore - 25 - XI

License T006807

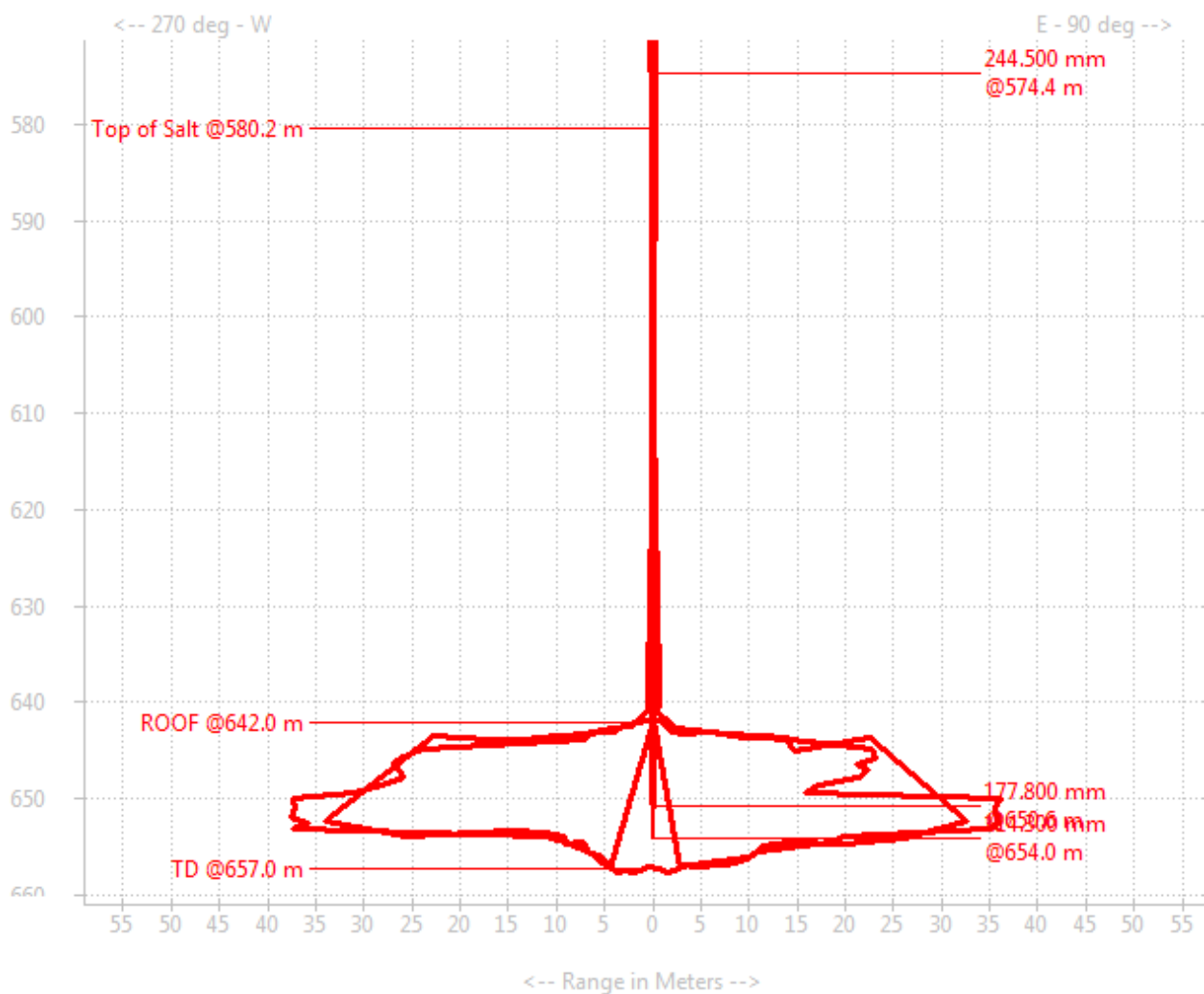
Cavern has a volume of 31,000 m³ with a diameter of 74 m.

The cavern has over 62 m of roof salt and could handle a lot of vertical growth.

DOW CHEMICAL CANADA INC.
HYDROCARBONS STORAGE

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL # HC-11
HC11-9111 NOVEMBER 15,1991





Cavern 12

Dow HC #12, Moore - 25 – XI **License** T006809

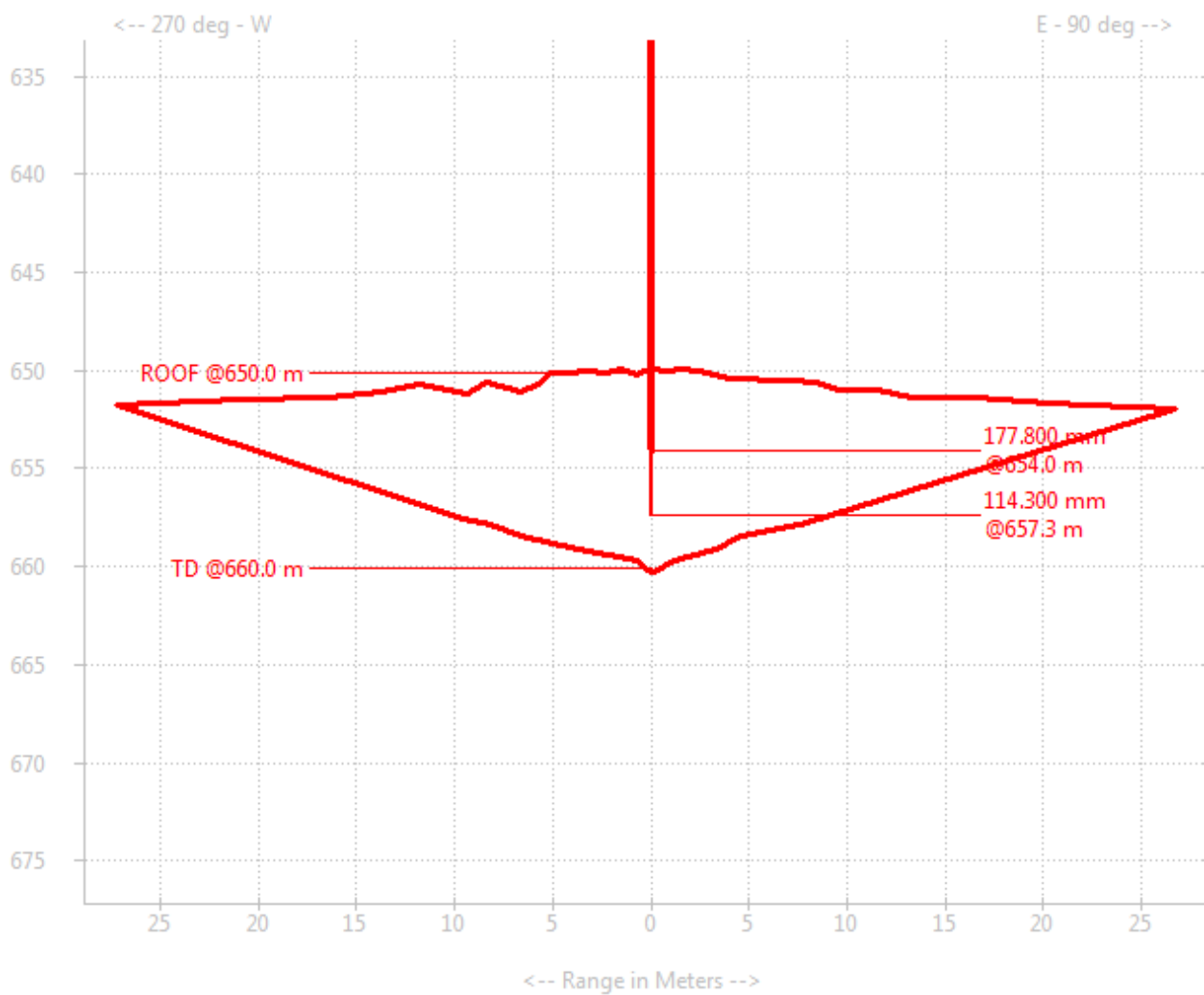
Cavern has a volume of 8,000 m³ with a diameter of 30 m.

The cavern has over 70 m of roof salt and could handle a lot of vertical growth.

DOW CHEMICAL CANADA INC.
HYDROCARBONS STORAGE

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL HC-12
HC12-9101 JANURARY 16,1991





Cavern 45

Dow #45, Moore - 25 - XII License T003426

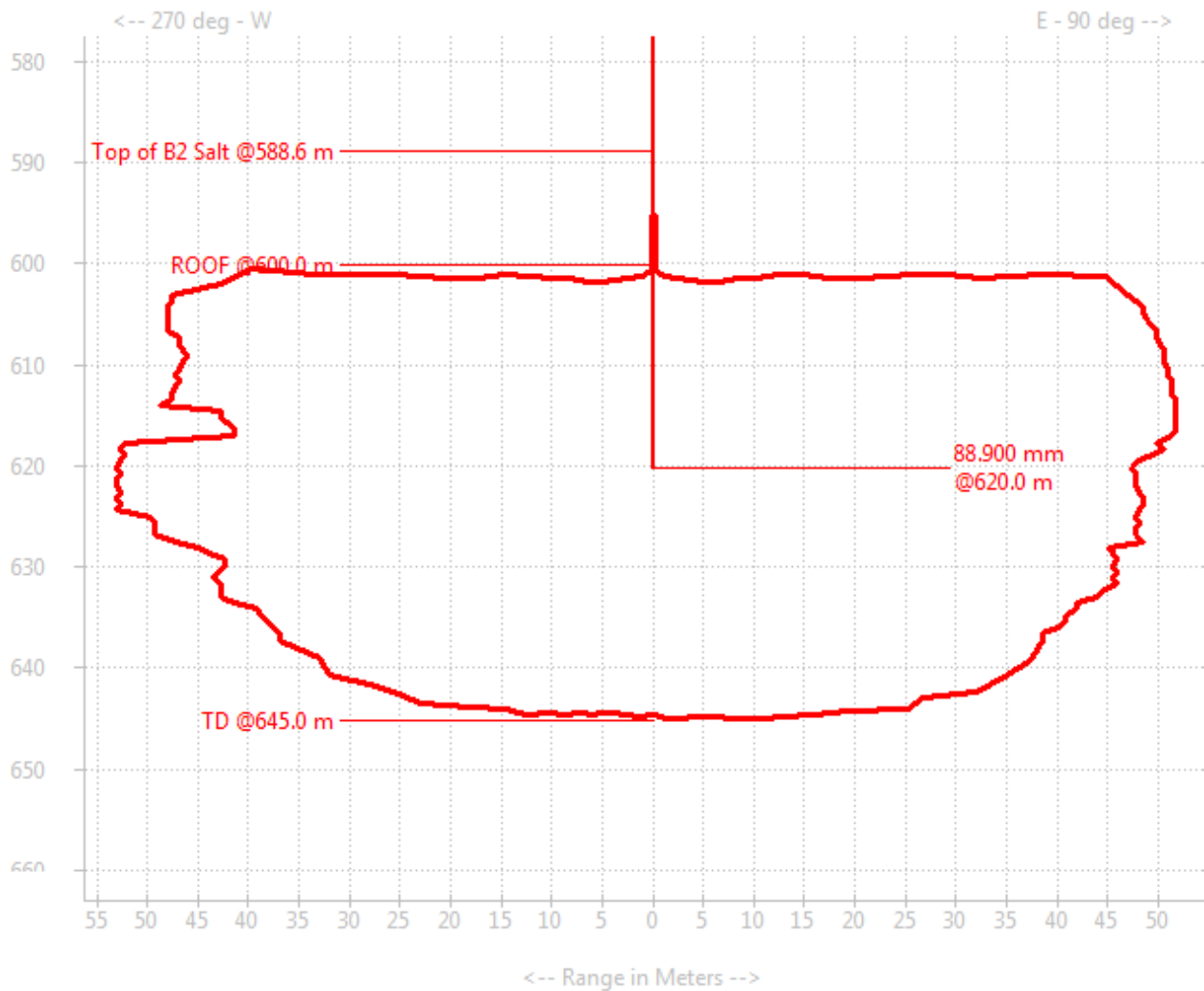
Cavern has a volume of 267,000 m³ with a diameter of 105 m.

The cavern has over 10 m of roof salt.

DOW CHEMICAL CANADA INC.
SARNIA, BRINE FARM

SONARWIRE, INC
Vertical Cross Section

WELL No. 45
BW45-0706mg Sat, Jun 2, 2007





Cavern: 61-62

Wells: 61 & 62 (communicating caverns)

Dow #61, Moore - 24 - XI **License** T005210

Dow #62, Moore - 24 - XI **License** T005211

Caverns 61 and 62 have combined volume of 174,000 m³. They communicate with each other around the 630 m level.

The caverns have over 25 m of roof salt.

BR-61 and BR-62 are potential candidates for storage. The caverns would have to be operated as one.

DOW CHEMICAL CANADA INC.
SARNIA, BRINE FARM

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL # 62
BW62MG-9102 FEBRUARY 27, 1991
BW61-9102MG FEBRUARY 26, 1991





Cavern: 65-66

Wells: 65 & 66 (dual entry)

Dow #65, Moore - 24 - XI

License T005553

Dow #66, Moore - 24 - XI

License T005552

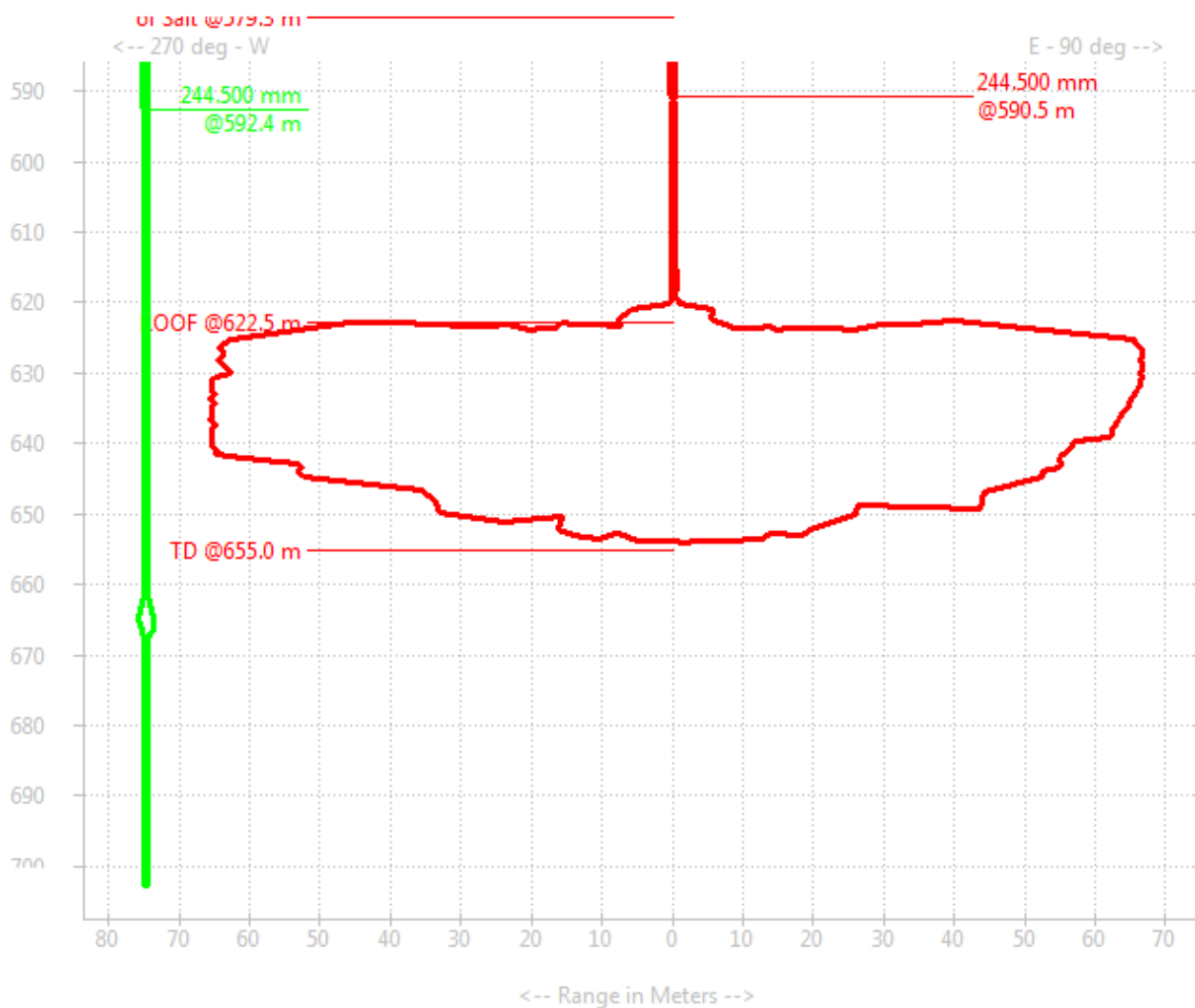
Cavern 65 has a volume of 250,000 m³ with a diameter of 130 m.

The cavern has over 40 m of roof salt.

DOW CHEMICAL CANADA INC.
SARNIA, ONTARIO

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL No. 65
BW65-0706mg Thu, Jun 14, 2007
72-1206 Thu, Jun 21, 2012





Cavern: 67-68

Wells: 67 & 68 (dual entry)

Dow #67, Moore - 24 - XI License T005218

Dow #68, Moore - 24 - XI License T005217

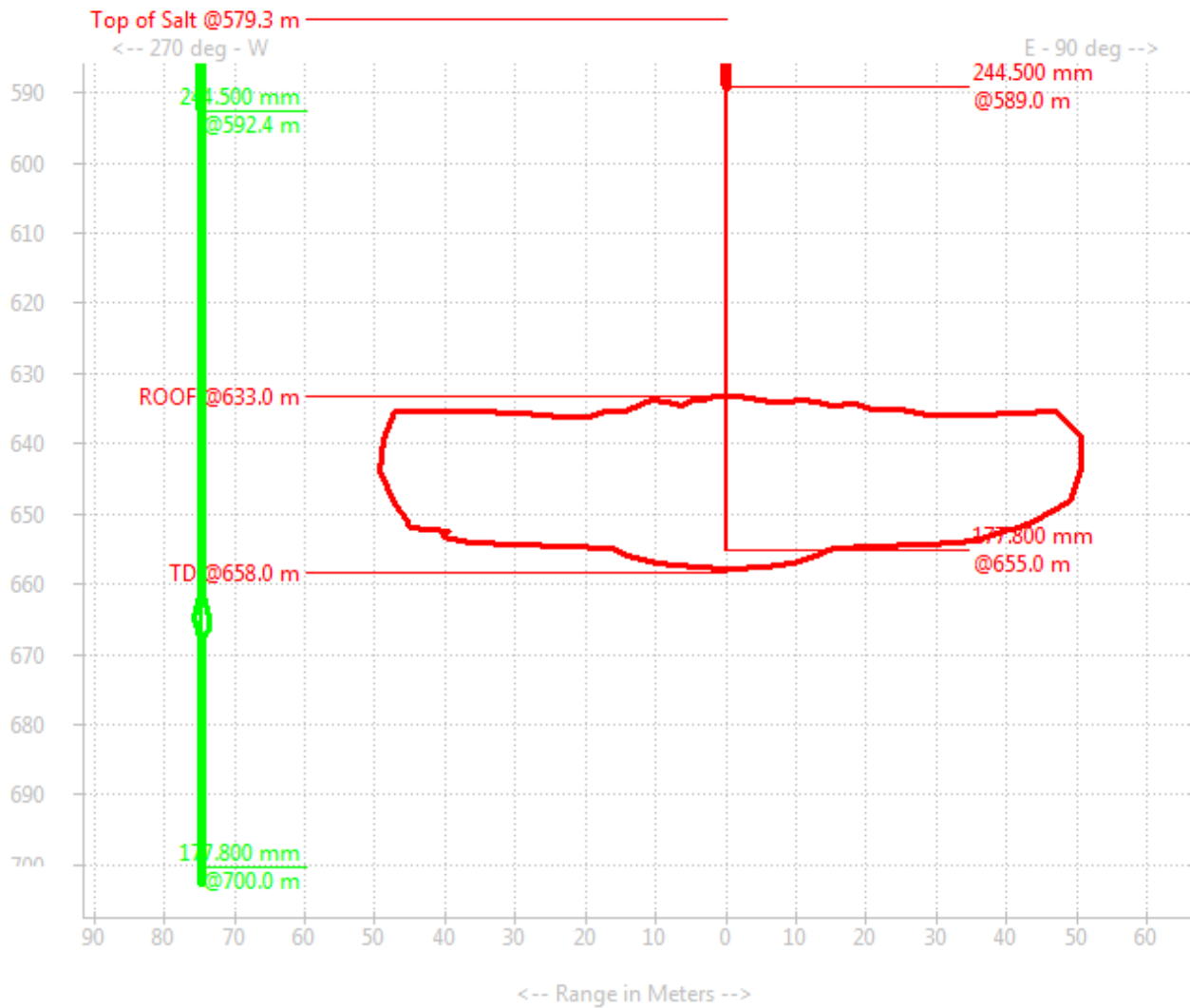
Cavern 67 has a volume of 127,000 m³ with a diameter of 100 m.

The cavern has over 50 m of roof salt.

DOW CHEMICAL CANADA INC.
SARNIA, BRINE FARM

SONARWIRE GLOBAL, LLC
Vertical Cross Section

BRINE WELL # 67
BW67-9112MG DECEMBER 10, 1991
72-1206 Thu, Jun 21, 2012





Cavern: 69-70

Wells: 69 & 70 (communicating caverns)

Dow Chemical Canada Inc. #69, Moore - 24 - XI

License T005781

Dow Chemical Canada Inc. #70, Moore - 24 - XI

License T005782

Caverns 61 and 62 have combined volume of $189,000 \text{ m}^3$. They communicate with each other around the 635 m level.

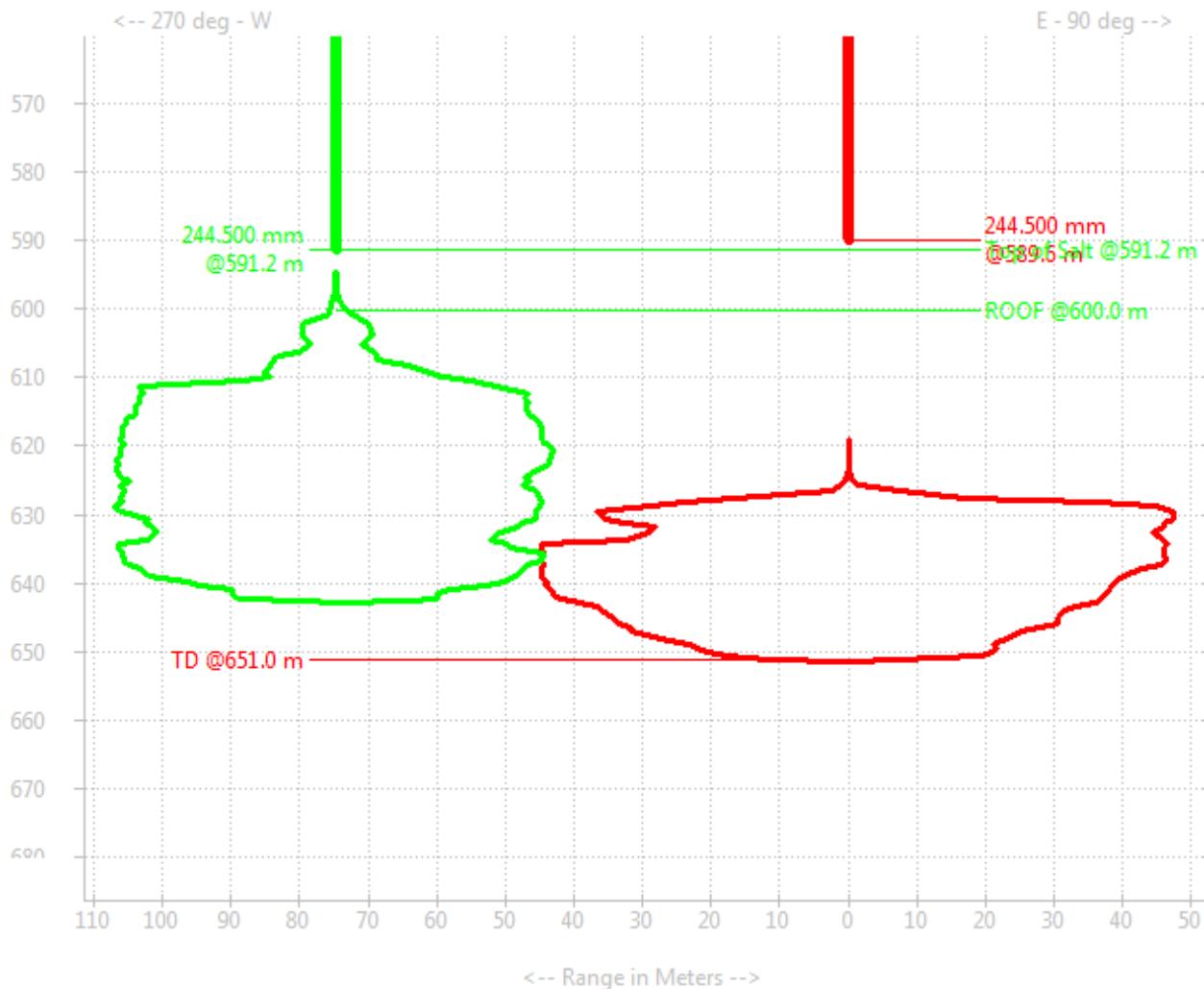
BR-69 has over 35 m of roof salt. BR-70 has 9 m of roof salt.

BR-69 and BR-70 are good candidates for storage. BR-70 could operate on its own up to about $50,000 \text{ m}^3$.

DOW CHEMICAL CANADA INC.
SARNIA, BRINE FARM

SONARWIRE GLOBAL, LLC
Vertical Cross Section

WELL # 69
BW69-9108 AUGUST 22, 1991#.
BW70-9108 AUGUST 22, 1991





Cavern: 71-72

Wells: 71 & 72 (dual entry)

Dow Chemical Canada Inc. #71, Moore - 23 - XI

License T005783

Dow Chemical Canada Inc. #72, Moore - 23 - XI

License T005783

Cavern 71 has a volume of 79,000 m³ with a diameter of 73 m.

The cavern has over 40 m of roof salt.

PEMBINA NGL CORP.
WELL No. 71

SONARWIRE GLOBAL, LLC
Vertical Cross Section

CORUNNA, ON
71MG-1206 Thu, Jun 21, 2012
72-1206 Thu, Jun 21, 2012

