UTAH GEOLOGICAL SURVEY
a division of
Utah Department of Natural Resources

Plate 20a
Utah Geological Survey Open-File Report 600
Well Database and Maps of Salt Cycles and Potash Zones of Paradox Basin, Utah

Master Longitudinal Cross Section
North Portion

Emery County | Grand County | Grand County | San Juan County

NW — SE

4301510504	4301511182	4301511138	4301931547	4301930124	4301911188	4301930038	4301930276	4301930272	4301930910	4301911482	4301910987	4303710573
Carter Oil Co	Superior Oil Co	Skyline Oil Co	Delta Petroleum Corp	Mountain Fuel Supply	Superior Oil Co	Shell Oil Co	Ladd Petroleum Corp	Mountain Fuel Supply	Chandler & Assoc Inc	Delphi Gas Pl Corp	White Cloud Oil	Humble Oil & Refg Co
1-A	14-24	1	26-43D	1-25	22-34	1-21	1-27U	2	16-9	2	1	3
T19S R14E S35	T21S R15E S24	T21S R16E S33	T21S R16E S26	T22S R16E S25	T22S R17E S34	T23S R18E S21	T24S R18E S27	T24S R19E S22	T25S R20E S9	T25S R21E S18	T26S R20E S14	T27S R21E S3
Hite Correlation Well					Hite Correlation Well					Hite Correlation Well	Hite Correlation Well	

Relative Depth (ft): -1800, -1500, -1200, -900, -600, -300, 0, 300, 600, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600, 3900, 4200, 4500, 4800, 5100, 5400, 5700, 6000

Neutron Log | Density Log | Sonic Log | Resistivity Log

Salt 1 | Salt 2 | Salt 3 | Gothic | Salt 4 | Salt 5 | Chimney Rock | Salt 6 | Salt 7 | Salt 8 | Salt 9 | Salt 10 | A Marker | Salt 11 | Salt 12 | Salt 13 | B Marker | Salt 14 | Salt 15 | Salt 16 | Salt 17 | Salt 18 | Salt 19 | C Marker | Salt 20 | Salt 21 | Cane Creek | Salt 22 | Salt 23 | Salt 24 | Salt 25 | Salt 26 | Salt 27 | D Marker | Salt 28 | Salt 29 | (Well TD above limestone)

Leadville Limestone

Approximate location of Intrepid Potash's Cane Creek solution mine

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by
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Consulting Geologist
2012

Vertical Exaggeration 20:1

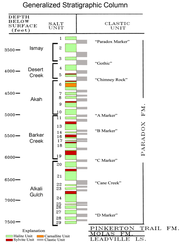
0 6000 12000 18000 24000 30000 ft
0 9000 m
0 9 km
0 5 miles

EXPLANATION
- Salt cycle with potentially economic potash zones (labeled according to Hite nomenclature; only zones 5S, 9S, 9S, S13, S16, S18, and S19 color filled; other salt cycles may contain potash zones)
- Potash zones in 5S, S9, S13, S16, S18, and S19
- Carnallite potash zone in 9S
- Key marker bed
- Mississippian limestone (arbitrarily shown as 200 ft thick)

Master Longitudinal Cross Section - North Portion



Generalized Stratigraphic Column



North Portion Master Cross Section in Structural Aspect

