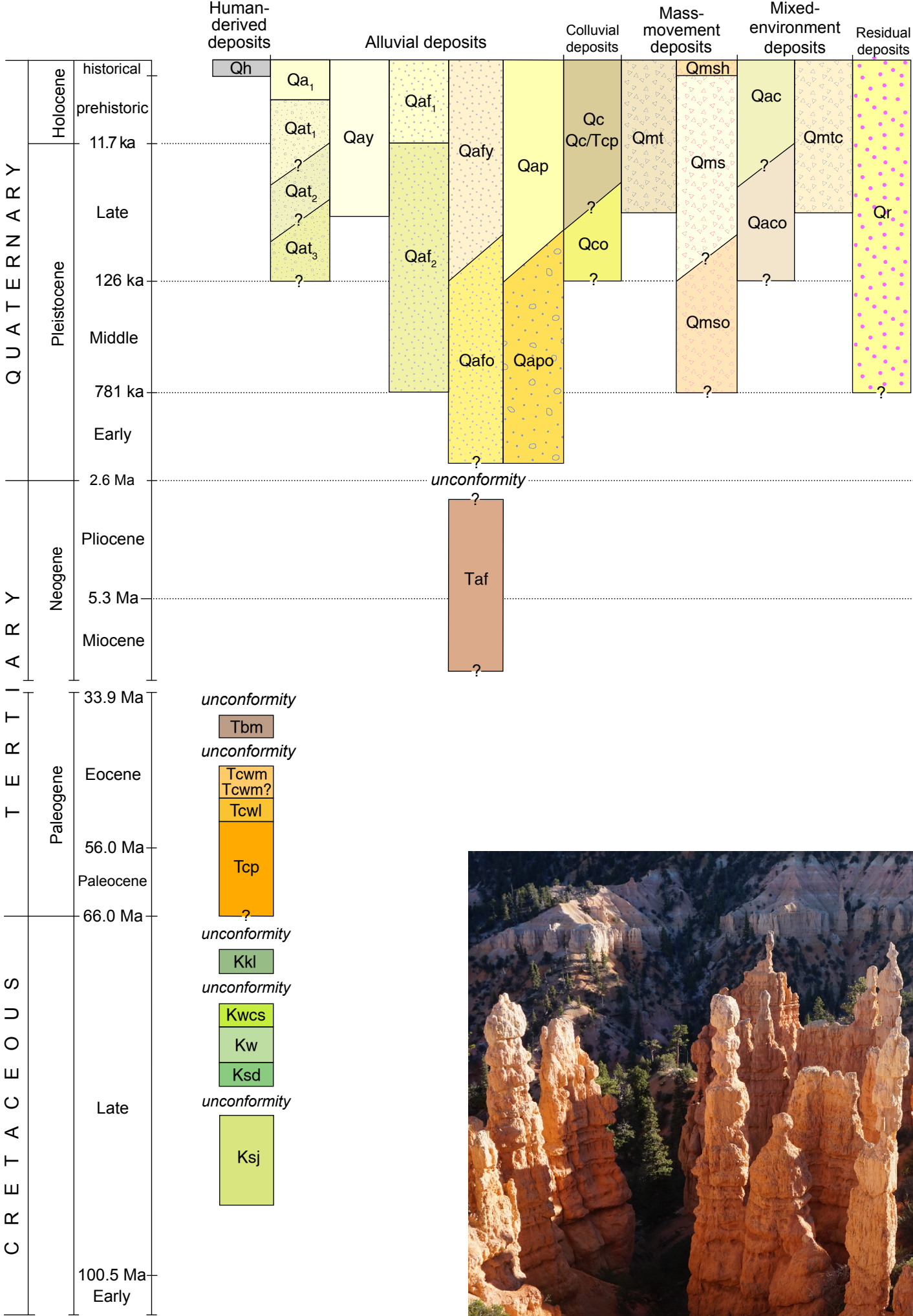


GEOLOGIC UNITS

Qh	Artificial fill
Qa ₁	Stream alluvium
Qay	Younger stream alluvium
Qat ₁	Level-1 stream-terrace deposits
Qat ₂	Level-2 stream-terrace deposits
Qat ₃	Level-3 stream-terrace deposits
Qaf ₁	Level-1 fan alluvium
Qaf ₂	Level-2 fan alluvium
Qafy	Younger fan alluvium
Qafo	Older fan alluvium
Qap	Pediment alluvium
Qapo	Older pediment alluvium
Qc	Colluvium
Qco	Older colluvium
Qmsh	Historical landslide deposits
Qms	Landslide deposits
Qmso	Older landslide deposits
Qmt	Talus
Qac	Alluvium and colluvium
Qaco	Older alluvium and colluvium
Qmtc	Talus and colluvium
Qr	Residium
	Colluvium over the pink member of the Claron Formation
Taf	Basin-fill deposits
Tbm	Conglomerate at Boat Mesa

CORRELATION OF MAP UNITS



South-directed view from near Fairyland Point of the stunning colors and intricate erosional forms of the Tertiary Claron Formation in Bryce Canyon National Park.

LITHOLOGIC COLUMN

SYSTEM	SERIES	SYMBOL	FORMATION - MEMBER	THICKNESS	LITHOLOGY
QUAT	Holo-Pleisto.	Q (various)	unconsolidated surficial deposits	0-100+ feet 0-30+ meters	
TERTIARY	Neogene	Taf	basin-fill deposits	0-60+	0-18+
		Tbm	conglomerate at Boat Mesa	60-80	18-25
		Tcwm	middle unit	0-160	0-50
		Tcwl	lower limestone unit	140	43
					unconformity caps Boat Mesa
	Paleocene	Tcp	pink member	700+	210+
					slope-forming clastic facies
					Pink Cliffs
					hoodoos of Bryce Canyon N.P.
					unconformity
CRETACEOUS	Late	Kkl	Kaiparowits Formation, lower unit	100+	30+
		Kwcs	capping sandstone member	20+	6+
		Kw	Wahweap Formation, upper, middle, and lower members, undivided	250-500	75-150
		Ksd	Drip Tank Member	100-160	30-50
		Ksj	Straight Cliffs Formation, John Henry Member	800-1000	250-300



Northeast-directed view of a splay of the Rubys Inn thrust fault north of State Route 12. Here, the fault dips about 35 degrees to the northwest and duplicates Claron Formation.

MAP SYMBOLS

- Contact—Dashed where approximately located
- Normal fault—Dashed where approximately located, dotted where concealed; bar and ball on downthrown side; arrows on cross section indicate direction of relative movement
- Thrust fault—Dashed where approximately located, dotted where concealed, queried where existence is uncertain; teeth on upper plate; arrows on cross section indicate direction of relative movement
- Reverse fault—Dashed where approximately located, dotted where concealed; barbs on upper plate; arrow shows dip of fault
- Hinge line of anticline—Dashed where approximately located, dotted where concealed
- Hinge line of syncline—Dashed where approximately located, dotted where concealed
- Hinge line of overturned syncline—Dashed where approximately located, dotted where concealed
- Line of cross section
- Strike and dip of inclined bedding
- Approximate strike and dip of inclined bedding determined photogrammetrically
- Strike and dip of overturned bedding
- Strike of vertical bedding
- Sand and gravel pit
- Sinkhole
- Spring
- Oil and gas exploration drill hole, plugged and abandoned

SELECTED SOURCES OF GEOLOGIC MAPPING

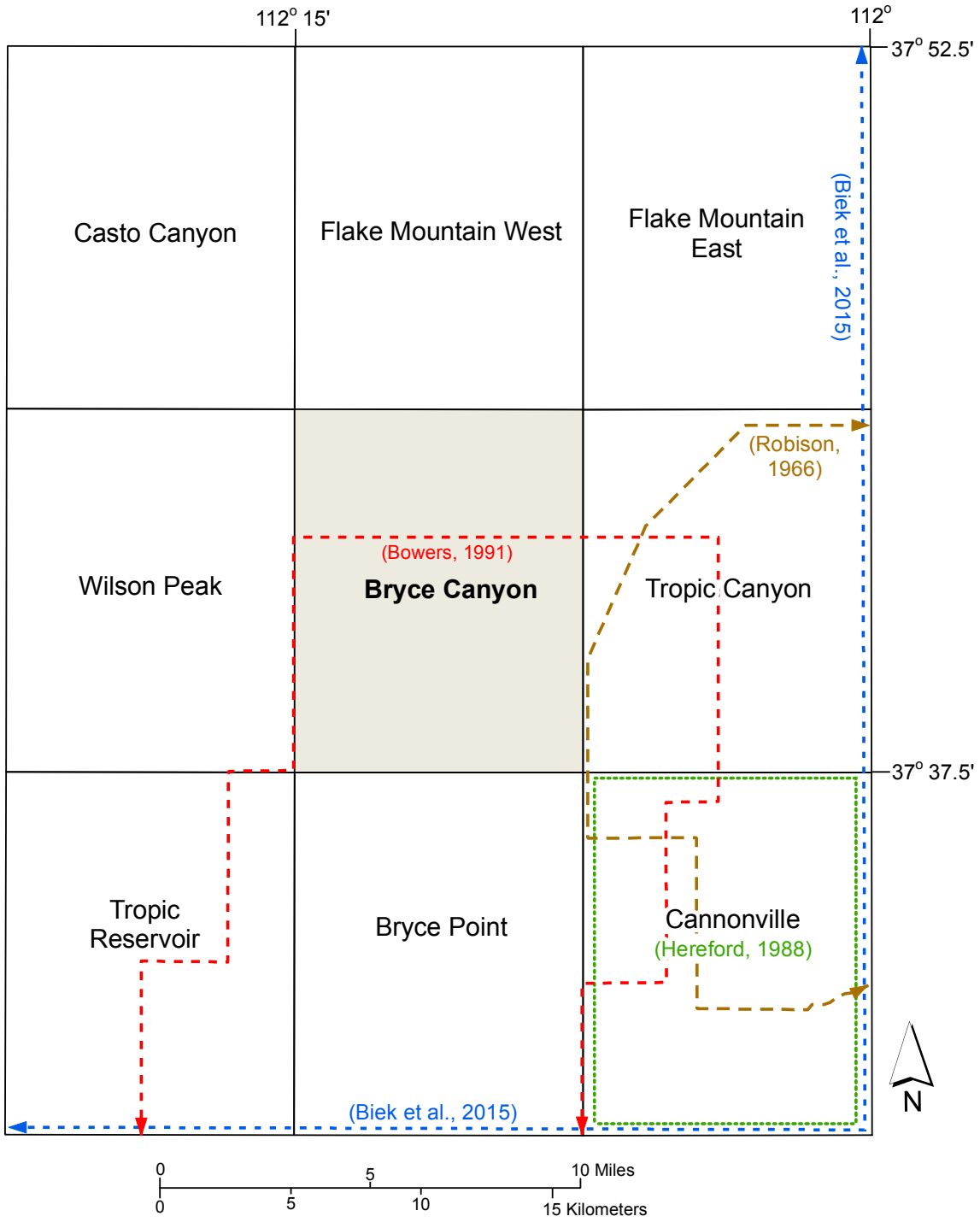
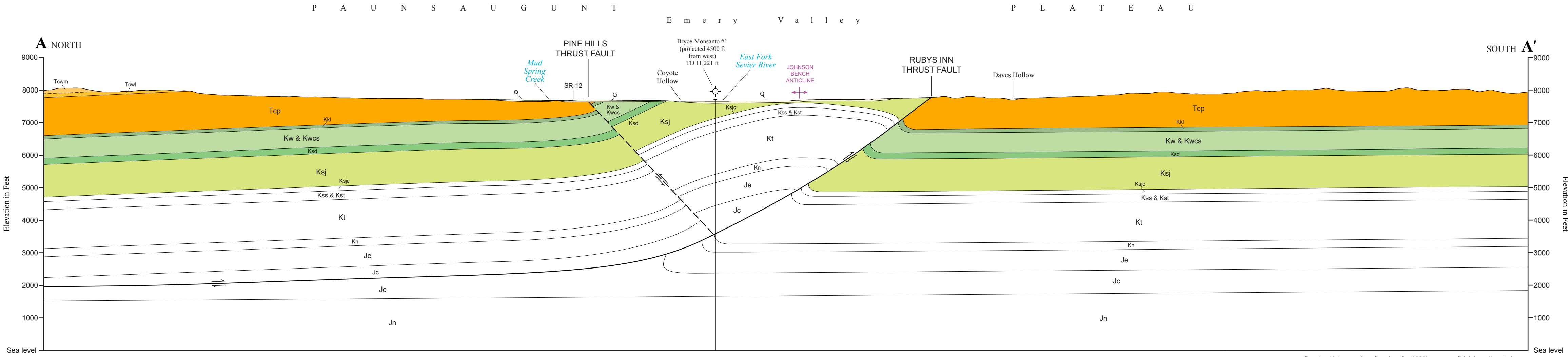


Table 1. Oil and gas exploration well information.

Operator	Well Name	API Well Number	Year Abandoned	Qtr/Qtr	Section	Township-Range	Latitude	Longitude	Elevation	Total Depth (feet)	Formation Tops (feet)
Lion Oil Company	Bryce-Monsanto #1	43-017-10682	1963	NWNW	10	36S-4W	37.69264	-112.21718	7718	11,221	Tropic: 2929; Dakota [Naturita]: 2245; Morrison [?]: 2660; Carnnel: 4625; Navajo: 6055; Chinle: 8130; Shinarump: 8728; Moenkopi: 8857; Timpowcap: 9982; Kaibab: 10,016; Torowcap: 10,565; Coconino: 11,016

Source: Utah Division of Oil, Gas and Mining Data Explorer: <https://dataexplorer.ogm.utah.gov/>



Structural interpretations from Lundin (1989); some surficial deposits not shown



Claron and conglomerate at Boat Mesa (Tbm) strata on the west flank of Boat Mesa. View is towards the east. The lower limestone unit of the white member of the Claron Formation (Tcwl) is here expressed as a slope with minor limestone ledges rather than a single bold cliff observed along its outcrop belt to the south. Tcwm, middle mudstone unit of the white member of Claron Formation; Tcp, pink member of the Claron Formation.