0021

INCOMING
C0150032
GK

GENWAL RESOURCES, INC.

P.O. BOX 1077
PRICE, UTAH 84501
PHONE: (435) 564-4000
FAX: (435) 564-4002

September 10, 2004

Utah Coal Program
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: 2nd Response to TA of 08/12/2004 for South Crandall Permit Change, Crandall Cyn Mine, C/015/032

Dear Sirs,

GENWAL Resources, Inc. is submitting the second response to the Technical Analysis dated 08/12/2004 of the South Crandall Permit Change Application.

Call me at 435-564-4015 if you have any questions.

Sincerely

Gary E. Gray
Engineer/Agent

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- ☒ Expandable

Refer to Record No 0021 Date 09102004
In C/0150032 2004 Incoming
For additional information

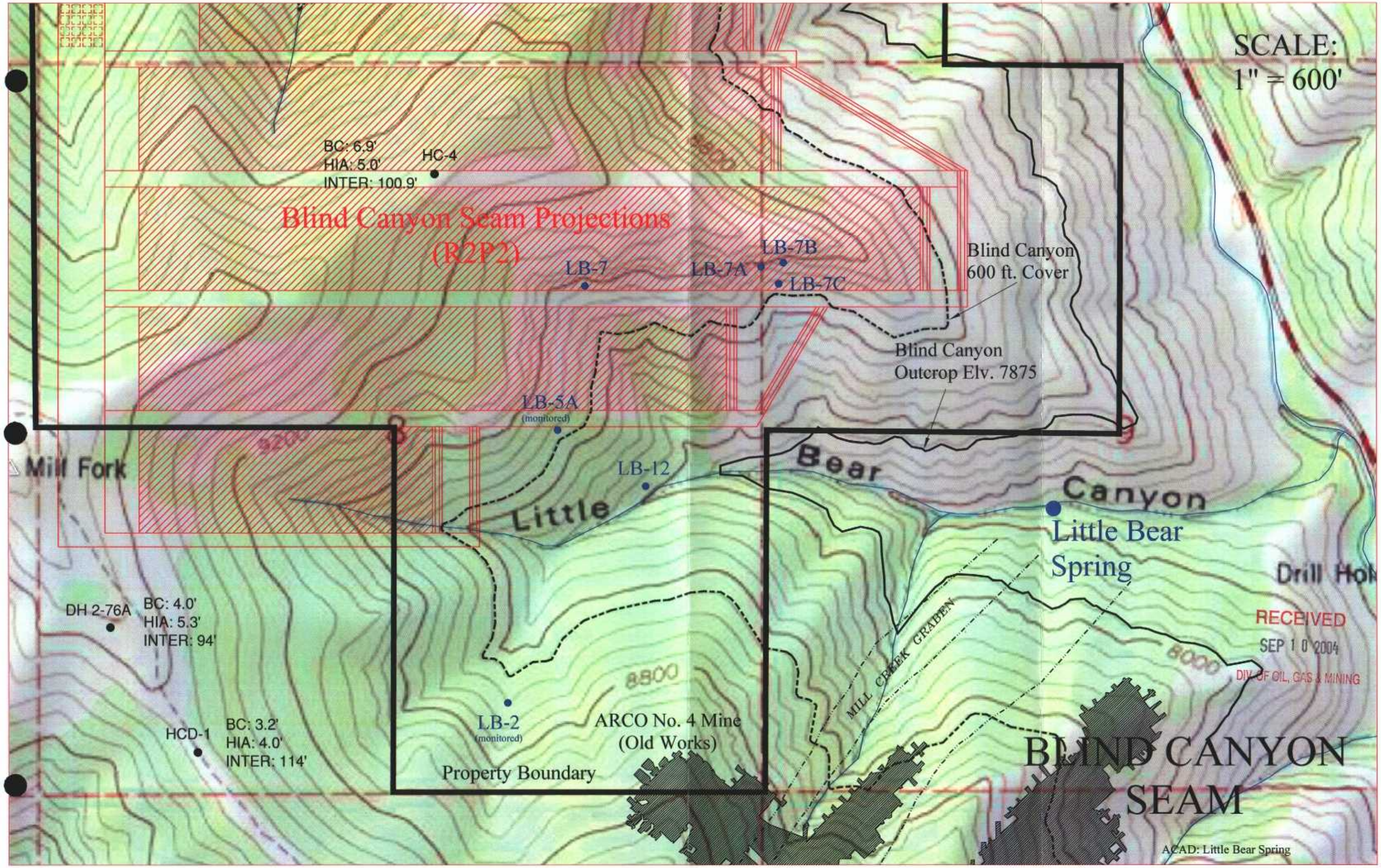
APPENDIX 7-63

HYDROLOGY/ GEOLOGY MAP
OF
LITTLE BEAR WATERSHED

Springs and seeps identified in the southern portion of the South Crandall lease area near or below the 600-foot cover line, 14 July 2004

Petersen Hydrologic, Survey July 2004.xls 27 Aug 04

	UTM coordinates NAD 27, Zone 12 S		Date	Flow (gpm)	T (°C)	pH S.U.	Cond (µS)	Comments
LB-2	486397	4365567	15-Jun-04	13.3	7.4	8.39	451	Spring flow originates from Blackhawk Formation above this location (monitored at bedrock-high below main spring area)
LB-12	486712	4365961	14-Jul-04	damp ground	---	---	---	Damp ground only, not enough flow to measure field parameters
LB-5A	486510	4366085	14-Jul-04	1.8	8.4	7.80	706	Discharges from base of Blackhawk Formation sandstone channel (not in potentially subsided area)
LB-7	486573	4366403	14-Jul-04	1.1	8.5	7.99	501	Seepage from base of Castlegate Sandstone/muddy landslide deposits in channel bottom
LB-7A	486969	4366426	14-Jul-04	seep/drip	---	---	---	Seepage from base of Castlegate Sandstone cliff, not enough flow to measure field parameters
LB-7B	487003	4366446	14-Jul-04	seep/drip	---	---	---	Seepage from base of Castlegate Sandstone cliff, not enough flow to measure field parameters
LB-7C	486998	4366398	14-Jul-04	0.21	11.4	8.44	424	Discharges from colluvial sediments near the Blackhawk Formation, Castlegate Sandstone contact



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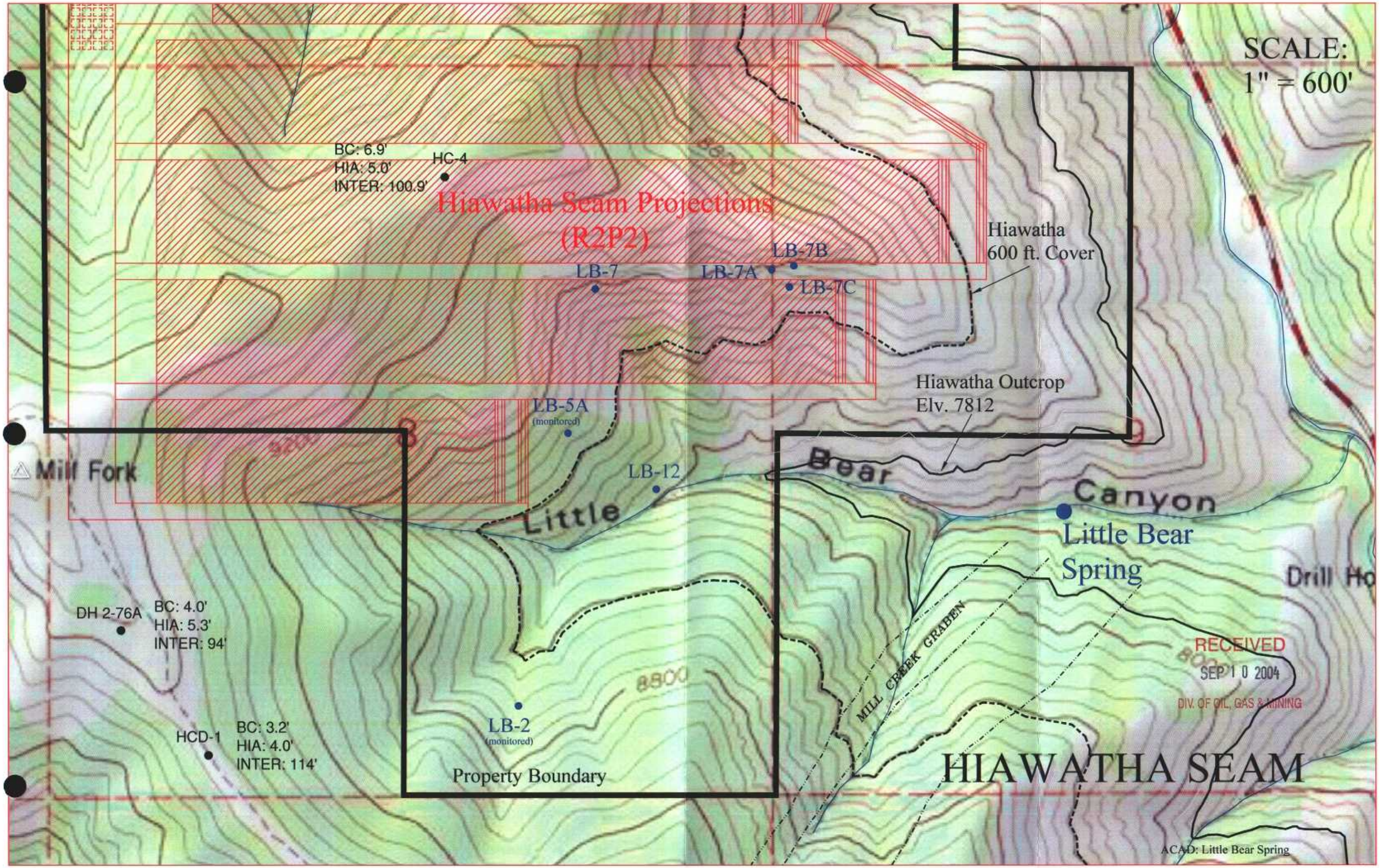
SCALE:
1" = 600'
BC: 6.9'
HIA: 5.0'
INTER: 100.9'
HC-4
Hiawatha Seam Projections
(R2P2)
Hiawatha
600 ft. Cover
LB-7B
LB-7
LB-7A
LB-7C
Hiawatha Outcrop
Elv. 7812
LB-5A
(monitored)
Mill Fork
LB-12
Little
Bear
Canyon
Little Bear
Spring
Drill Ho
DH 2-76A
BC: 4.0'
HIA: 5.3'
INTER: 94'
MILL CREEK GRABEN
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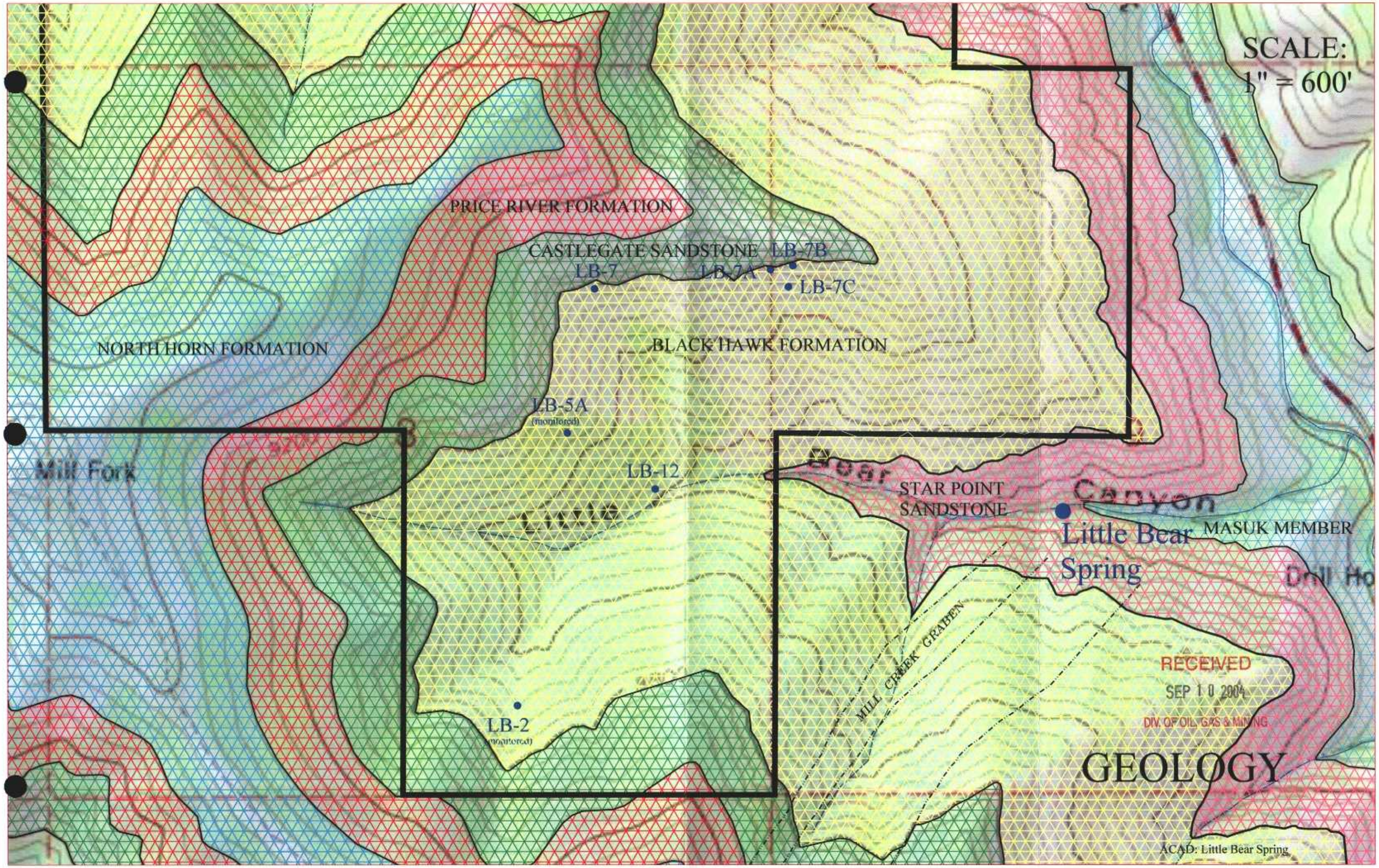
HCD-1
BC: 3.2'
HIA: 4.0'
INTER: 114'
LB-2
(monitored)
Property Boundary
HIAWATHA SEAM
ACAD: Little Bear Spring



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