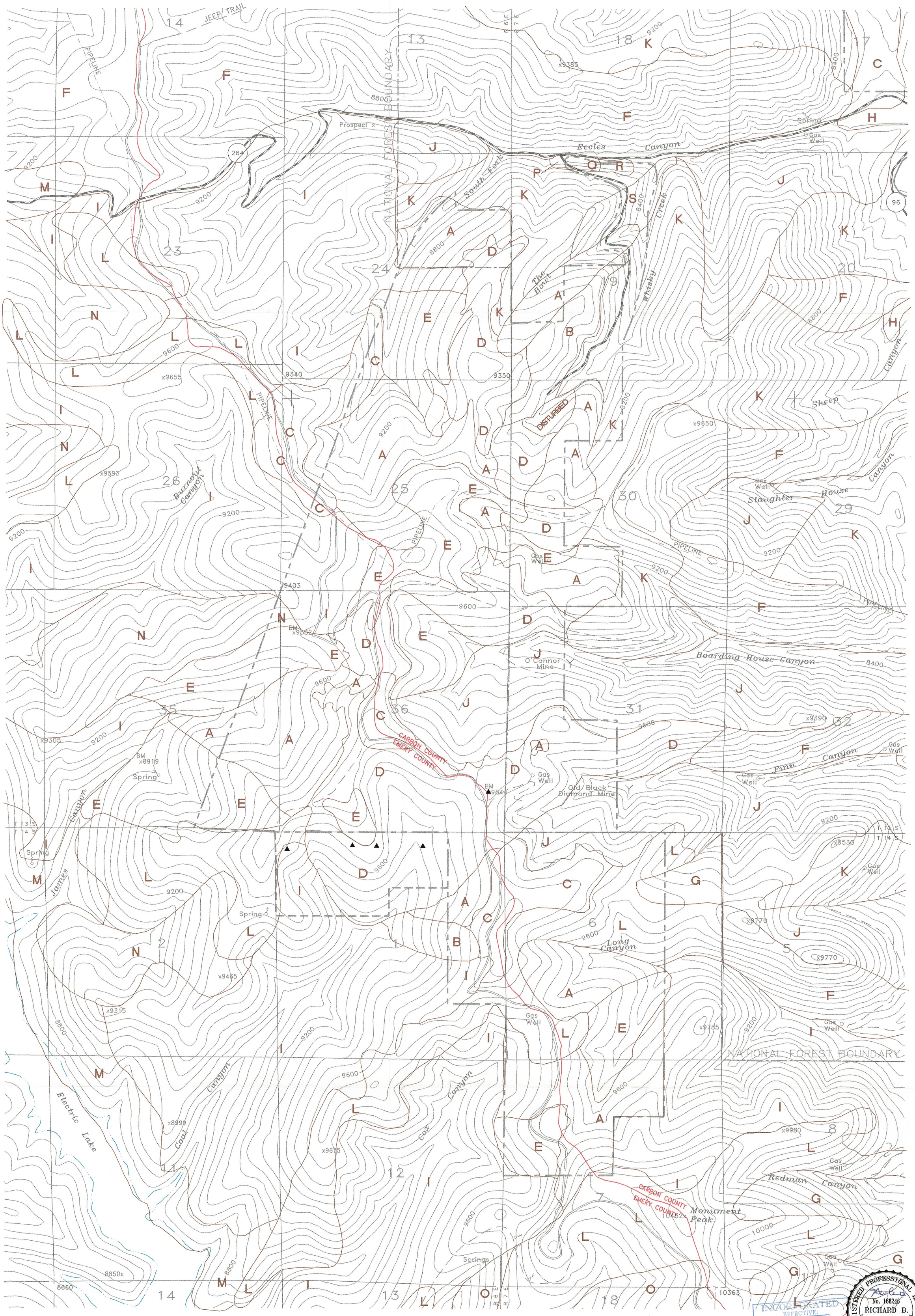

Sources: Soil Resource Inventory of the Manti Division, Soil survey area 645, Draft December 1997
Soil Survey of Carbon Area, Utah
Valley Camp Drawing R614-301-223.100, September 1, 1989

INCORPORATED
EFFECTIVE:
MAR 03 2000
UTAH DIVISION OIL, GAS AND MINING

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
3/3/2000
NOT VALID WITHOUT A SIGNATURE
STATE OF UTAH

0' 1000' 2000' 3000'

LEGEND

- Mine Site Location
- Permit Area Boundary
- Permit Area Boundary Extension
- National Forest Boundary
- Subsidence Monitoring Point

A loamy-skeletal, mixed mollic cryoboralfs
B fine loamy, mixed argic pachic cryoborolls
C loamy-skeletal, mixed argic cryoborolls
D a complex of units B & C
E a complex of units A, B, & C
F fine loamy, mixed typic argiboralfs and fine loamy, mixed argic cryoborolls
G loamy-skeletal, mixed typic paleboralfs loamy-skeletal, mixed cryic paleboroll
I fine loamy, mixed cumulic cryoborolls and fine loamy, mixed cumulic haploborolls
J loamy-skeletal, mixed cryic paleborolls and fine loamy, mixed pachic cryoboroll
K fine loamy, mixed typic cryoboralfs and fine loamy, mixed calcic pachic cryoborolls
L loamy-skeletal, mixed typic argiboralfs
L fine loamy, mixed pachic cryoborolls and loamy skeletal, mixed (non-acid) lithic cryorthents
M loamy skeletal, mixed boralfic cryoboroll fine-loamy, mixed pachic cryoboroll
N loamy-skeletal, mixed cryic paleboroll loamy-skeletal, mixed typic paleboralfs mixed pachic cryoboroll
O loamy-skeletal, mixed typic paleboralfs loamy-skeletal, mixed cryic paleborolls loamy-skeletal, mixed pachic cryoborolls
P coarse-loamy, mixed cumulic cryoborolls
O coarse-loamy, mixed pachic cryoborolls
R loamy-skeletal, mixed typic cryoboralfs
S fine loamy, mixed argic pachic cryoborolls with 30% of the soils having a slope greater than 60% with as much as 50% rock fragments below 12 inches.

REVISIONS

Area	Revision	Description	Date	Approved
	1	CORRECTED SOIL BOUNDARY	12-8-99	VSM
	2	ADDED SUBSIDENCE MARKERS	3-1-00	VSM

Plate 2-1

LODESTAR ENERGY, INC.
MOUNTAIN OPERATIONS
WHITE OAK MINE
HC35 BOX 370
HELPER, UTAH 84526

Title: Permit Extension-Soils

Size:	Drawn By:	DWG No:
C	WOMCC Eng.	G:\UC691\01\DWG\PLT2-1.DWG 9-9-99 XREF: 24x36.dwg, WOBASE.dwg

Scale: 1"=1000' Date: March 1, 1998 Sheet: -