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Mine file
S. Kinney
007/001

VALLEY CAMP OF UTAH, INC.

Scofield Route
Helper, Utah 84526

October 31, 1986

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DIVISION OF
OIL, GAS & MINING

Mr. Lowell Braxton
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: Annual Subsidence Survey Report

Dear Mr. Braxton:

Please find enclosed one (1) copy of Valley Camp's annual Subsidence Monitoring Report, as prepared by Vaughn Hansen Associates.

This report, along with seven (7) copies of our updated Subsidence Base Map, is the result of this years annual pedestrian survey.

The survey was performed by Vaughn Hansen and Valley Camp personnel over the Belina Mine Permit area.

Please feel free to contact me if you have questions concerning this submittal.

Sincerely,

Trevor G. Whiteside
Chief Engineer

TGW/gs

Enclosures

CONSULTANTS / ENGINEERS
VAUGHN HANSEN ASSOCIATES
WATERBURY PLAZA - SUITE A
5620 SOUTH 1475 EAST
SALT LAKE CITY, UTAH 84121
(801) 272-5263

October 23, 1986

Mr. Trevor Whiteside
Mine Engineer
Valley Camp of Utah, Inc.
Scofield Route
Helper, UT 84526

RE: Valley Camp Subsidence Monitoring

Dear Mr. Whiteside:

On October 15, 1986, David Hansen and Greg Poole of Vaughn Hansen Associates, and Keith Fenstermaker and John Uibanik of Valley Camp Coal Company performed a subsidence survey of the land surface above sections of the Valley Camp Belina No. 1 Mine. All land surface areas above both pillared sections and areas of full seam extraction were included in the survey. Good weather conditions were experienced during the survey. However, north facing slopes had areas with snow accumulations up to about one foot deep. South facing slopes were free of snow as were any open areas exposed to sun on the north facing slopes. Where snow was present, identification of subsidence fractures was greatly hindered. All north facing slopes within the survey areas should be given extra attention during the subsidence monitoring survey next year.

The results of the survey are indicated on the updated "Subsidence Base Map for the Valley Camp Lease Area". The mine extensions as of October 1, 1986 are also indicated on the map.

The land surface above pillared and full seam extraction areas of the mine was surveyed by walking with up to four men abreast and by noting on maps the extent of surface subsidence features such as slope failures and surface cracks. A summary of the findings above each area follow.

First and Second South. A new slope failure area was identified on a steep slope on the south west side of the area (see subsidence base map). The slope failure may be natural, but has probably been initiated by surface subsidence due to mining. Several parallel fractures lie just up slope from the slope failure. Snow accumulations on this north facing slope make determination of the extent of the fractures difficult. This area should be carefully examined next year.

Third East Mains. On the north end above First Left off of the Third East Mains, numerous parallel surface cracks were identified up to two feet deep and two feet wide. Near the bottom of the canyon a new slope failure (about 100 feet by 50 feet in extent) was found on the north side of the stream.

Up the slope south of the south end of Third Right off of the Third East Mains, a small crack six inches wide by 20 feet long was identified perpendicular to the countour. The crack may be due to erosion.

Third West Mains. No new signs of surface subsidence were found. An existing 100 foot long by six foot wide and one foot deep depression was found just west of the south end of Second Left. The depression appears to be old and is not believed to be related to mining in the Belina Mine.

No other new surface subsidence features were found.

If we may be of further assistance at any time or if there are any questions, please call.

Sincerely,

Gregory J. Poole, P.E.
Project Engineer