

**HANSEN  
ALLEN  
& LUCE inc**SALT LAKE AREA OFFICE  
6771 South 900 East  
Midvale, Utah 84047  
Phone: (801) 566-5599**RECEIVED**

OCT 20 1993

DIVISION OF  
OIL, GAS & MININGMr. James L. Litman  
Valley Camp of Utah, Inc.  
c/o Valley Camp Coal Company  
P.O. Box 218  
Triadelphia, West Virginia 26059

October 15, 1993

Re: Valley Camp of Utah, Inc. 1993 Subsidence Map Update.

Dear Mr. Litman:

Enclosed please find a copy of the revised Subsidence Map related to the Valley Camp of Utah property which was prepared based upon your authorization of our pedestrian surveys completed on September 14<sup>th</sup> and 15<sup>th</sup>, 1993. As will be noted from the tables shown herein and on the map, little overall change was found between the 1992 and 1993 subsidence surveys except for some additional weathering of the subsidence features and the additional definition of some cracking that is believed associated with already documented features. These newly marked features are not believed to be new, but rather further clarification of existing known features.

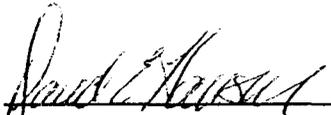
As with last year, the "Magellan NAV 5000 Pro's" were used where possible to help located and further refine the location of subsidence features. Locations of some features were not defined due to heavy ground cover which limits the ability of the locator to obtain an adequate satellite fix. The satellite locators were unable to obtain a "fix" for those subsidence stations with an "N/A" in the location column.

Comments relative to each subsidence location noted on the map over those documented in 1992 are summarized in the following tables. Note that new features not previously identified, clarified features, or features with a marked change of major importance over last years effort are highlighted in the table. Also note that the vast majority of subsidence appears to be continuing its healing process through erosional filling or natural re-vegetation.

Mr. James L. Litman  
October 15, 1993  
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As required we have submitted a copy of subsidence Map R645-301-728.100a to UDOGM.  
A copy has also been submitted to White Oak Mining for their reference. Should you have any questions or comments, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "David E. Hansen", written over a horizontal line.

David E. Hansen, Ph.D., P.E.

Principal

cc: Steve Tanner - White Oak Mining Company  
Sharon Falvey - UDOGM

**1993 SUBSIDENCE SURVEY LOG  
TAGGED SITES**

TAG NUMBER	DATE	COMMENT	LOCATION <sup>1</sup>	
			LAT	LONG
1	9/14/93	NO SIGNIFICANT CHANGE	39°52.726"	11°54.631"
2	9/14/93	NO SIGNIFICANT CHANGE	40°01.650"	11°54.159"
3	9/14/93	WEATHERING & VEGETATIVE GROWTH CONTINUES	39°43"	11°20"
4	9/14/93	NO APPRECIABLE CHANGE	39°42.616"	11°10.749"
5	9/14/93	WEATHERING & VEGETATIVE GROWTH CONTINUES - CRACKS UP TO 1' WIDE, 1' DEEP	39°47"	11°22"
6	9/14/93	WEATHERING & FILLING IN, BUT STILL LONG AND UP TO 2' WIDE	39°22.445"	11°20.087"
7	9/14/93	CRACK APPROXIMATELY 3' WIDE, 5" DEEP, 20" LONG	39°39.52"	111°11.42"
12	9/14/93	CRACKS 1 TO 5' WIDE, 2' DEEP, 200' LONG. POSSIBLE EXTENSION OF TAGS 26 AND 34	39°39.38	111°11.19"
13	9/14/93	NO APPRECIABLE CHANGE	39°42.539	11°25.167"
16	9/14/93	NO APPRECIABLE CHANGE	39°46.527"	11°46.804"
17	9/14/93	NO APPRECIABLE CHANGE	39°47.441"	11°48.210"
18	9/14/93	DID NOT LOCATE	N/A	N/A
19	9/14/93	SMALL AMOUNT OF WATER CONTINUES TO POND IN BOTTOM OF SINK HOLE. MOST OF CRACK HAS HEALED EXCEPT WHERE LOW SPRING FLOWS ENTER CRACK	39°05.618"	11°46.506"
20	9/14/93	CONTINUING TO WEATHER AND VEGETATE, HOWEVER MANY LARGE CRACKS STILL EXIST.	39°49"	11°15"
21	9/14/93	CRACKS ARE INTERMITTENT AND HEALING. DEEP	39°47"	11°15"
22	9/14/93	NO APPARENT CHANGE	N/A	N/A
23	9/14/93	SINK HOLE SLOUGHING OFF ON NORTH SIDE	39°03.614"	11°32.964"
24	9/15/93	DEPTH OF HOLE IS DECREASING AND CONTINUES TO HEAL	39°02.788"	11°14.970"
25	9/14/93	VEGETATION GROWING IN CRACK	39°35.307"	11°10.981"
26	9/14/93	NO APPRECIABLE CHANGE	39°35.794"	11°17.138"
27	9/14/93	NO APPRECIABLE CHANGE	39°40.614"	11°24.120"
28	9/14/93	FOUND TAG, COULD NOT FIND SUBSIDENCE FEATURE	39°39.304"	11°09.672"
29	9/14/93	NO APPRECIABLE CHANGE	39°42.356"	11°09.083"
30	9/14/93	NO SIGNIFICANT CHANGE	N/A	N/A
31	9/14/93	NO APPRECIABLE CHANGE	39°47"	11°09"
32	9/14/93	CRACKS STILL UP TO 8" WIDE, 18" DEEP.	39°47.184"	11°25.196"
33	9/14/93	TREE WITH TAG #33 HAS FALLEN OVER. NEW TAG #13 PLACED	39°42.539"	11°25.167"
34	9/14/93	NO APPRECIABLE CHANGE	39°39.189"	11°21.319"
35	9/14/93	CRACKS HARD TO FIND AND FILLING IN	N/A	N/A
36	9/14/93	NO APPRECIABLE CHANGE	N/A	N/A
37	9/14/93	WEATHERING BUT NOT VEGETATING. CRACK UP TO 18" WIDE, 12" DEEP, 75 YARDS LONG.	39°48"	11°17"
38	9/14/93	COULD NOT POSITIVELY IDENTIFY	39°49.256"	11°21.361"
39	9/14/93	DEPRESSION IS FILLING IN WITH INCREASED VEGETATION	39°27.855"	11°22.084"
40	9/14/93	CRACKS CONTINUE TO HEAL	39°11.679"	11°32.604"
41	9/15/93	NO APPRECIABLE CHANGE	39°03"	12°23"
42	9/14/93	NO SIGN OF CHANGE	40°01"	11°52"
43	9/14/93	ANIMAL HABITAT HOLES ASSOCIATED WITH CRACK	39°55.119"	11°49.401"
44	9/14/93	HEAVILY WEATHERED, SOME ANIMAL ACTIVITY	39°52.959"	11°48.144"

**1992 SUBSIDENCE SURVEY LOG  
TAGGED SITES - (Continued)**

TAG NUMBER	DATE	COMMENT	LOCATION <sup>1</sup>	
			LAT	LONG
45	9/14/93	CRACK UP TO 15' LONG, 2' DEEP, 10" WIDE. POSSIBLE EXTENSION OF TAGS 28 & 29	39'41"	111'09"
47	9/14/93	NO APPRECIABLE CHANGE	39'40.00"	111'11.44"
49	9/14/93	FOUND TAG, COULD NOT FIND SUBSIDENCE FEATURE	N/A	N/A
51	9/14/93	WEATHERING AND VEGETATING STILL EASILY VISIBLE	N/A	N/A
52	9/14/93	NO APPRECIABLE CHANGE	N/A	N/A

N/A - NOT AVAILABLE.

1 - LATITUDES ARE ALL AT 39°, LONGITUDES ARE ALL AT 111°.

**SUBSIDENCE SURVEY LOG  
NONTAGGED SITES**

SITE NUMBER	DATE	COMMENT	LOCATION <sup>1</sup>	
			LAT	LONG
A	9/14/93	COULD NOT LOCATE	N/A	N/A
B	9/14/93	COULD NOT LOCATE	N/A	N/A
G	9/14/93	NO APPRECIABLE CHANGE	N/A	N/A
J	9/14/93	NO APPRECIABLE CHANGE	N/A	N/A
K	9/14/93	NO APPRECIABLE CHANGE	39'40.101"	111'12.642"
M	9/14/93	COULD NOT LOCATE	N/A	N/A
P	9/14/93	NON SUBSIDENCE RELATED	N/A	N/A

N/A - NOT AVAILABLE.

1 - LATITUDES ARE ALL AT 39°, LONGITUDES ARE ALL AT 111°.