

0021
SRS, Inc.

Sunnyside Reclamation & Salvage, Inc.

P.O. Box 99 — Sunnyside, Utah 84539

ACT/007/007 #6

RECEIVED
SEP 05 1989

September 1, 1989

Environmental
Division of Utah

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

Dear Mr. Smith:

Re: Sunnyside Subsidence Report
ACT/007/007, Carbon County, Utah

This letter transmits the 1989 Annual Subsidence Report for SRS, Inc.'s Sunnyside Mines. The survey monitored ten (10) points in Bear Canyon and thirteen (13) points in Whitmore Canyon.

Please feel free to call if you have any questions.

Sincerely,



Karl R. Houskeeper
Environmental Coordinator

KRH:th

cc: Bill Balaz

Enclosure

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OIL, GAS & MININGINTRODUCTION

As required by its approved Mine Permit ACT/007/007, SRS performed 1989 subsidence monitoring in Bear Canyon and Whitmore Canyon during August. This work included:

- (1) Monitoring of thirteen (13) subsidence monitoring points in Whitmore Canyon
- (2) Monitoring of ten (10) existing subsidence points in Bear Canyon

Discussion

The survey work was performed using two Wilde T-1, One-Second Theodolites; TopCon EDM; and Zeiss Self-Leveling Level. SRS estimates the accuracy of the survey at ± .2 feet.

Table 1 summarizes the Whitmore Canyon subsidence data for the years 1986, 1988, and 1989. Comparing 1986 to 1988 shows the stations in Whitmore Canyon have gone up from .03 to +.54. The comparison between 1988 and 1989 shows the elevations went from -.04 to -.13. Station 12 was destroyed by maintenance activities on a municipal water pipeline. Station 13 has been included as a replacement for Station 12. The data indicates no subsidence movement in Whitmore Canyon.

Table 2 summarizes the Bear Canyon data for 1986, 1987, 1988, and 1989. The results in Bear Canyon for Stations S-1 to S-5 are variable between 1986 and 1987. Movement ranges from up .15 to down 1.54 feet. The comparison between 1987 and 1988 shows the elevation went up from .09 to .18 feet. The comparison between 1988 and 1989 shows the elevations went from -.50 to +.04.

SRS suspects the -1.86 difference on S-4 from 1986 to 1989 to be a field error.

It is SRS's understanding that thirteen (13) stations in Whitmore Canyon are sufficient. This is due to the fact that longwall mining passed this area in 1985 prior to extending subsidence monuments to the dam. The operator will include monuments as required should longwall mining resume in the #1 Mine inside panels.

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TABLE 1
SUBSIDENCE MONITORING
WHITMORE CANYON LEVEL CIRCUIT
AUGUST, 1989

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STATION	BASE ELEVATION 1986	ELEVATIONS 1988	ELEVATIONS 1989	YEAR'S DIFFERENCE	FROM BASE DIFFERENCE
S-1000	7147.32	7147.32	7147.25	-0.07'	-0.07'
S-1001	7156.18	7156.72	7156.64	-0.08'	+0.46'
S-1002	7173.64	7173.70	7173.65	-0.05'	+0.01'
S-1003	7185.55	7185.63	7185.59	-0.04'	+0.04'
S-1004	7199.21	7199.31	7199.25	-0.06'	+0.04'
S-1005	7227.49	7227.53	7227.48	-0.05'	-0.01'
S-1006	7254.45	7254.48	7254.43	-0.05'	-0.02'
S-1007	7254.53	7254.60	7254.50	-0.10'	-0.03'
S-1008	7263.11	7263.21	7263.08	-0.13'	-0.03'
S-1009	7266.99	7267.06	7266.94	-0.12'	-0.05'
S-1010	7281.75	7281.81	7281.68	-0.13'	-0.07'
S-1011	7293.76	7293.86	7293.75	-0.11'	-0.01'
S-1012		----- DESTROYED -----			
S-1013	7335.48	7335.63	7335.53	-0.10'	+0.05'

+ Indicates Movement Upward

- Indicates Movement Downward

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TABLE 2
SUBSIDENCE MONITORING
BEAR CANYON VERTICAL-ANGLE ELEVATIONS
AUGUST, 1989

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STATION	UPDATED BASE ELEVATION 1986	ELEVATIONS 1988	ELEVATIONS 1989	YEAR'S DIFFERENCE	FROM BASE DIFFERENCE
S-01	7163.18	7163.51	7163.24	-0.27'	+0.06'
S-02	7188.05	7188.16	7187.87	-0.29'	-0.18'
S-03	7202.58	7202.29	7201.97	-0.32'	-0.61'
S-04	*7223.34	7221.89	7221.48	-0.41'	*-1.86'
S-05	7250.67	7250.83	7250.47	-0.36'	-0.20'
S-06		**7283.67	7283.60	-0.07'	-0.07'
S-07		7337.06	7336.86	-0.20'	-0.20'
S-08		7358.97	7358.47	-0.50'	-0.50'
S-09		7397.16	7397.04	-0.12'	-0.12'
S-10		7444.40	7444.44	+0.04'	+0.04'

+ Indicates Movement Upward

- Indicates Movement Downward

* Suspected Field Error

** 1988 Is The Base Year For Monument S-06 Through S-10