C/041/002 Incoming
#3993
K

Canyon Fuel Company, LLC
A Subsidiary of Arch Western Bituminous Group, LLC.

Sufco Mine
Kenneth E. May
General Manager
597 South SR24
Salina, Utah 84654
(435) 286-4400
Fax (435) 286-4499

December 14, 2011

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

Re: Subsidence Control Point Survey Data, Canyon Fuel Company, LLC, SUFCO Mine
C/041/002

Dear Permit Supervisor:

The SUFCO Mine M&RP Table 5-2 in Chapter 5, Volume 1 has been modified to update the subsidence control point survey data.

The enclosed eight copies of materials needed to update the SUFCO Mine M&RP in both redline/strikeout and clean text formats are being submitted to update the M&RP. The completed DOGM C-1 and C-2 forms showing changes needed are attached.

If you have any questions or need additional information, please contact Amanda Richard at (435) 286-4489.

Sincerely,
CANYON FUEL COMPANY, LLC
Sufco Mine

Kenneth E. May
General Manager

Encl.

KEM\MLD:kb

cc: DOGM Correspondence File

RECEIVED
DEC 23 2011
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sufpub\govt2011\dogmmrp\subsidencecontrolpointsurveydata.ltr.doc

File in:
☐ Confidential
☐ Shelf
☒ Expandable
Date Folder 122311 C/041/0002
Incoming

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: CANYON FUEL COMPANY, LLC
Mine: SUFCO MINE **Permit Number:** C/041/0002
Title: Subsidence Control Point Survey Data

Description, Include reason for application and timing required to implement:
The SUFCO Mine M&RP Table 5-2 in Chapter 5, Volume 1 has been modified to update the subsidence control point survey data.

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes ☒ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☒ Yes ☐ No 19. Does the application require or include certified designs, maps or calculation?
☒ Yes ☐ No 20. Does the application require or include subsidence control or monitoring?
☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
☒ Yes ☐ No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

KENNETH E. MAY	GENERAL MANAGER	12/14/11	Kenneth E May
Print Name	Position	Date	Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 14 day of December, 2011

Notary Public: _____, state of Utah.

My commission Expires: _____ }
Commission Number: _____ } ss:
Address: _____ }
City: _____ State: _____ Zip: _____ }

JACQUELYN NEBEKER
Notary Public
State Of Utah
My Commission Expires 3/24/2015
Commission# 606049

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining
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APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: CANYON FUEL COMPANY, LLC
Mine: SUFCO MINE
Permit Number: C/041/0002
Title: Subsidence Control Point Survey Data

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐ Add	☒ Replace	☐ Remove	Replace pages 5-31 to 5-38B in Chapter 5, Volume 1 of MRP.
☐ Add	☒ Replace	☐ Remove	Plate 5-10Bv9, Potential Subsidence Limits Pines Tract in Chapter 5, Volume 1 of MRP.
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
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☐ Add	☐ Replace	☐ Remove	
☐ Add	☒ Replace	☐ Remove	Plate 5-10BCv9, Potential Subsidence Limits Pines Tract in Ch 5, Vol 1 of Confidential Binder
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining
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TABLE 5-2

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
1	~~100932.59~~ 100933.10	~~100609.64~~ 100609.71	~~7315.19~~ 7315.34
2	100565.70	103173.88	7149.08
3	099076.69	105831.18	7131.86
4	098827.15	109182.36	6838.11
5	097739.92	112429.91	6652.60
6	098187.90	115780.06	6710.89
7	~~101986.87~~ 101987.39	~~112752.52~~ 112752.20	~~8554.85~~ 8554.88
8	~~105324.23~~ 105324.02	~~101281.67~~ 101281.04	~~8316.00~~ 8315.50
9	103998.64	105465.03	8442.60
10	106048.81	106874.81	8474.26
11	106083.32	109335.63	8546.47
12	~~106406.94~~ 106407.15	~~112616.67~~ 112616.26	~~8585.19~~ 8585.45
13	106926.38	115554.92	6988.22
14	112526.11	106273.15	8443.36
15	112910.14	111586.69	8563.16
16	109957.72	113812.10	8518.59
17	~~116848.23~~ 116847.53	~~102935.94~~ 102937.28	~~9005.11~~ 9003.88
18	~~116733.37~~ 116733.24	~~104655.00~~ 104654.99	~~8901.60~~ 8901.47

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
~~19~~	~~120840.77~~	~~100117.62~~	~~8561.11~~
19 (Revised)	120799.68	100165.13	8564.78
20	~~121604.17~~ 121554.78	~~103029.10~~ 103088.64	~~8263.95~~ 8269.06
21	121925.97	106488.16	8314.80
22	~~123340.28~~ 123340.78	~~106906.37~~ 106906.63	~~8265.93~~ 8265.83
23	122238.22	110529.04	8324.02
24	~~122772.02~~ 122771.92	~~112735.32~~ 112735.33	~~8378.99~~ 8378.90
25	~~123102.58~~ 123102.30	~~115175.24~~ 115175.43	~~8425.55~~ 8422.27
43	~~120606.07~~ 120606.40	~~096818.65~~ 096818.38	~~8881.26~~ 8881.35
46	~~131958.54~~ 131953.05	~~096834.02~~ 096842.20	~~8965.92~~ 8967.40
47	131406.54	~~099790.57~~ 099790.56	8735.34
48	~~131437.05~~ 129564.58	~~102945.33~~ 105575.88	~~8696.96~~ 8211.58
49	~~133890.18~~ 133890.19	~~103488.82~~ 103488.80	~~8895.49~~ 8895.50
50	~~134285.40~~ 134292.38	~~106489.01~~ 106557.44	~~9136.09~~ 9126.18
~~51~~	~~134414.30~~	~~109927.37~~	~~9099.71~~

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
52	~~133973.55~~ 133973.27	~~112700.77~~ 112700.74	~~8892.07~~ 8892.11
53	133972.65	116076.79	8582.82
~~54~~	~~133222.58~~	~~119010.34~~	~~8401.40~~
55	~~133461.52~~ 133461.40	~~122393.42~~ 122392.99	~~8389.11~~ 8389.42
~~56~~	~~123282.97~~	~~122424.74~~	~~8686.57~~
57	~~122795.99~~ 122796.10	~~125334.62~~ 125334.72	~~8596.05~~ 8596.38
58	~~119334.53~~ 119334.36	~~118753.99~~ 118753.61	~~8611.25~~ 8611.35
59	112742.29	118595.02	8251.06
60	112677.39	121836.63	8657.35
61	~~113580.99~~ 113581.19	~~1253124.33~~ 125314.33	~~811.95~~ 8711.65
62	115900.60	125001.09	8664.19
65	122998.42	100043.41	8275.61
~~67~~	~~120410.01~~	~~125583.66~~	~~7658.96~~
67 (Revised)	120400.21	125572.86	7658.25
68	~~121008.67~~ 121008.54	~~128517.71~~ 128517.80	~~8667.17~~ 8667.51
69	121064.58	131691.97	8720.08
70	123166.59	128582.95	8637.33
71	121965.02	131669.43	8748.82

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
72	~~121092.04~~ 121091.97	~~134835.23~~ 134835.59	~~8810.19~~ 8810.09
73	~~130940.72~~ 130940.23	~~125236.02~~ 125235.97	~~8437.85~~ 8435.89
74	~~131206.99~~ 131206.85	~~128568.54~~ 128568.20	~~8476.68~~ 8474.85
75	128197.83	131572.43	8631.51
76	~~128705.65~~ 128706.03	~~134833.31~~ 134833.56	~~8704.84~~ 8705.02
77	~~138653.68~~ 138653.63	~~119485.57~~ 119486.03	~~8412.81~~ 8412.87
78	~~136771.25~~ 136770.99	~~122164.78~~ 122164.99	~~8342.11~~ 8341.95
79	~~137042.86~~ 137042.30	~~125375.54~~ 125376.08	~~8421.85~~ 8409.73
80	~~138132.32~~ 138131.90	~~128568.48~~ 128567.68	~~8421.85~~ 8420.98
81	137335.10	131613.73	8469.17
82	~~136757.59~~ 136757.67	~~134767.67~~ 134767.91	~~8595.69~~ 8595.58
83	145161.90	119006.17	8502.03
84	145310.24	122168.20	8379.41
85	145393.67	123937.67	8446.34
86	145687.89	126377.39	7222.27
87	145520.70	128446.66	7170.99

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
88	143117.38	131943.66	7115.53
89	140965.75	134680.45	6913.76
90	~~138349.92~~ 138349.45	~~123503.55~~ 123503.97	~~8352.18~~ 8350.67
~~8611 Low~~	~~119800.17~~	~~115022.04~~	~~8581.78~~
91	140360.60	103418.30	9243.20
92	142200.39	106446.97	8784.97
93	140543.29	106496.64	8835.50
95	142287.36	112714.35	8157.58
96	142129.47	115804.45	8323.47
Target S-01	134412.69	109928.67	9099.23
Target S-02	142127.65	118654.01	8278.10
Target S-03	131206.75	128568.49	8474.79
Target 101	142259.06	109602.00	8552.72
Target 102	140976.06	129707.23	8536.62
Target 103	137042.33	125376.45	8409.71
Target 104	137335.16	131613.94	8469.01
Target 105	133222.00	119010.95	8401.37
Target 106	130239.16	124047.60	8405.61
Target 107	126214.50	109707.88	8269.56
Target 108	124851.64	120918.64	8513.89
Target 109	123283.19	122424.39	8685.95

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Target 110	124577.10	133135.31	8756.13
111	131435.14	093398.98	9483.95
112	101809.44	93166.11	8206.73
113	109138.83	97006.51	8256.40
114	120548.07	094938.16	8918.07

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
4 Pines	134940.98	111950.24	9104.90
AcordLake	100330.43	86378.77	8031.46
All Day	124415.20	137279.51	8794.23
Alpine	122693.58	133912.37	8775.10
Baldy	106802.50	110566.59	8624.03
Bare Hill	136907.89	128650.98	8473.07
Barrier II	121546.60	110839.05	8359.58
Bart	~~132531.32~~ 132531.22	~~123248.69~~ 123248.44	~~8410.85~~ 8411.34
~~Base~~	~~100000.00~~	~~100000.00~~	~~7786.00~~
Blue Blob	129058.58	129542.30	8558.89
Bonnie	~~122603.81~~ 122603.34	~~118618.03~~ 118617.66	~~8583.37~~ 8580.47
Boulder	136741.64	121487.39	8391.12
Bud	127964.99	107186.72	8231.78
Bull	126376.68	110388.37	8298.63
Burn Out	138040.85	129607.77	8452.15
Butte	119468.45	107824.97	8513.92
By Ricci	145238.72	128819.35	7195.57
~~Calf~~	~~123204.82~~	~~116986.82~~	~~8481.63~~
Castlegate	120940.28	111188.85	8366.35
Chimney Rock	130171.29	128312.17	8490.07
Chips	~~119946.42~~ 119943.68	~~113401.75~~ 113401.39	~~8423.85~~ 8419.17

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Clay	~~136361.08~~ 136358.77	~~115066.10~~ 115069.31	~~9101.62~~ 9095.57
Cliff Edge	~~140641.13~~ 140641.19	~~130337.13~~ 130336.85	~~8433.92~~ 8434.25
Cow Trail	102478.62	108301.73	8524.99
Creek Hill	141988.81	133601.71	7018.19
Crossroad	121135.78	133856.06	8813.10
Days End	125053.71	133352.20	8780.04
Dead Pine	118532.28	108623.09	8394.25
Duncan Peak	117641.30	099157.75	9255.24
Eagle	118292.79	113692.02	8433.71
Elk	112136.88	099467.17	8531.54
Everest	~~130826.08~~ 130826.10	~~097165.07~~ 097165.08	9029.84
Extra	138911.86	128161.89	8443.67
Fallen Pine	~~121845.38~~ 121845.42	~~125226.29~~ 125226.35	~~8619.23~~ 8619.66
First Time	~~120267.10~~ 120266.36	~~111721.75~~ 111722.00	~~8367.48~~ 8366.61
Forgot	129137.52	130560.75	8577.72
~~Four Pines~~	~~134940.98~~	~~111950.24~~	~~9104.90~~
Freeway	125720.33	112564.03	8315.36
Garbage Can	102175.31	101467.61	7561.08
Gizmo	122137.04	129822.89	8673.16
Gnat	097162.73	111116.78	6716.70

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Gobbler Gulch	121232.03	129666.98	8671.22
Grassy Knoll	145457.82	120897.55	8597.82
Green River	136951.77	124862.48	8505.73
Grouse	125780.48	117184.19	8484.19
Guard Shack	102480.18	101499.92	7552.14
Hail	123389.21	128574.54	8642.14
Head East	123040.13	129598.25	8665.50
Hidden	117192.48	110476.66	8425.89
Highland	144495.99	119415.42	8659.16
Hillcrest	124080.42	133992.88	8818.92
Hill Top	136802.66	133597.53	8722.09
Hurry	125665.00	106492.42	8509.89
Jack Adley	105747.68	103040.36	8432.07
Jasen's Nest	132934.62	125327.45	8554.30
John's Rock	123848.46	134651.07	8828.95
Juan	123386.14	119603.88	8523.10
Justified	128683.85	133693.88	8709.89
Just Short	130862.41	128497.71	8483.68
Last Chance	115892.42	110035.39	8645.18
Link View	119626.35	123890.93	8644.73
Little Duncan	112480.42	109271.23	8990.15
Little Pine	120626.81	122034.00	8770.46
Lucky	097058.75	113724.52	6595.87
~~Lumber Jack~~	~~126214.13~~	~~109707.51~~	~~8269.66~~

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Marcy	100342.33	104808.45	7061.46
Meatloaf	134988.07	125832.28	8479.53
Midway	~~128484.31~~ 128483.90	~~121491.77~~ 121492.16	~~8463.10~~ 8458.22
Mineroad1	100290.94	096964.02	7577.04
Moe	143714.16	118339.95	8360.98
Mortensen Point	101559.99	101384.00	7571.94
Mountain Mahogany	133803.19	~~114797.45~~ 114797.44	8592.09
Muddy Rim	145288.54	124311.74	8328.19
Muddy Vista	145902.97	120205.73	8576.45
Murphy	119417.11	114774.23	8572.64
Nancy	~~124336.02~~ 124336.00	~~124784.67~~ 124784.76	~~8778.42~~ 8778.71
No Name	124961.47	107615.96	8304.06
Oak	115633.20	110789.61	8468.06
Old Road	128492.07	115262.29	8456.61
One Jump	116111.78	115519.96	8536.01
Oscar	111252.09	103359.60	8414.10
Over Time	~~122089.28~~ 122088.93	~~114328.53~~ 114328.74	~~8468.99~~ 8464.99
Paintbrush	136700.67	125597.47	8420.74
Pine Grove	120940.90	128889.96	8683.13
Pine Hen	115127.26	~~099989.19~~ 099989.31	9001.95

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
P.K. Nail	~~118833.16~~ 118833.45	~~109123.46~~ 109123.60	~~8380.49~~ 8380.36
Pot Hole	108988.85	099782.73	8294.55
Prairie View	131204.98	125857.42	8451.01
~~Pump Pad~~	~~103149.00~~	~~101805.27~~	~~7556.70~~
Rain Gauge	~~102915.72~~ 102916.00	~~101948.95~~ 101948.87	~~7558.47~~ 7558.53
Rain Rock	121342.03	130240.93	8691.08
Ramble On	121927.63	131923.04	8758.11
Range Pole	125342.96	113084.37	8356.94
Rattle Snake	105717.67	105315.88	8411.86
Red Nose	111823.28	124354.97	8667.55
Ridge	~~117277.94~~ 117278.21	~~107079.12~~ 107079.21	~~8631.14~~ 8630.86
Rim Rock	~~102804.59~~ 102804.40	~~100423.05~~ 100422.90	~~8367.51~~ 8367.60
Rocknest	144458.05	129952.07	7154.21
Rock On	122072.13	131499.36	8738.41
Rocky II	126969.22	109539.79	8320.28
Sage	128102.11	134164.59	8718.55
Sandhill	122060.12	134109.81	8811.25
Sandridge	121328.27	127907.98	8648.74
Scales	103185.47	101587.37	7548.18
Sedpond1	102002.12	101463.23	7562.73
Shady Pines	125570.58	133937.70	8766.82

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Single Tree	131237.84	127470.34	8460.00
SKS	123193.35	135241.06	8832.12
Slab Rock	119915.33	104763.90	8549.06
Slaughter Hill	~~144554.38~~ 144554.25	~~122928.31~~ 122928.40	~~8561.19~~ 8560.94
South Fork	122360.32	102147.28	8217.44
Spike	106426.93	~~100039.16~~ 100039.17	8325.62
Split Rock	129534.95	128829.31	8519.39
Standard	~~133590.22~~ 133589.26	~~108899.19~~ 108900.52	~~9140.11~~ 9139.56
Stock Pond	132382.89	118400.29	8390.90
Stonewood	121550.07	134283.71	8815.21
Stumpy	127542.00	131932.07	8660.21
Substation B.M.	102787.93	102081.34	7563.46
Sunspot	122068.81	130374.08	8705.83
Switchback	120172.62	126162.50	7826.13
Terrace	103533.00	101612.28	7598.64
That	134704.05	121439.83	8354.24
This	133853.23	122161.75	8385.37
Three Pines	128994.27	131195.32	8610.37
Thunder Ridge	145713.29	121585.36	8502.52
Two Flats	121612.91	132938.78	8783.19
U.S.G.S.	~~130065.64~~ 130065.44	~~100406.52~~ 100406.72	~~8647.57~~ 8648.16

Table 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Valley View	115797.62	099307.50	9054.37
Vanwinkle	120967.82	131485.30	8738.62
Wasatch2	176502.69	091318.15	11130.23
White Rocks	~~119944.67~~ 119944.80	~~116486.71~~ 116486.58	~~8529.72~~ 8530.16
White Rocks II	119945.83	116485.02	8526.53
Wilco	120846.31	129130.30	8685.09
Wildcat	121403.85	122435.42	9030.03
Wileys	130032.60	134664.80	8652.51
Window	125525.90	111439.67	8290.13
~~Windy~~	~~118040.90~~	~~113985.18~~	~~8453.89~~

TABLE 5-2

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
1	100933.10	100609.71	7315.34
2	100565.70	103173.88	7149.08
3	099076.69	105831.18	7131.86
4	098827.15	109182.36	6838.11
5	097739.92	112429.91	6652.60
6	098187.90	115780.06	6710.89
7	101987.39	112752.20	8554.88
8	105324.02	101281.04	8315.50
9	103998.64	105465.03	8442.60
10	106048.81	106874.81	8474.26
11	106083.32	109335.63	8546.47
12	106407.15	112616.26	8585.45
13	106926.38	115554.92	6988.22
14	112526.11	106273.15	8443.36
15	112910.14	111586.69	8563.16
16	109957.72	113812.10	8518.59
17	116847.53	102937.28	9003.88
18	116733.24	104654.99	8901.47
19 (Revised)	120799.68	100165.13	8564.78
20	121554.78	103088.64	8269.06
21	121925.97	106488.16	8314.80
22	123340.78	106906.63	8265.83
23	122238.22	110529.04	8324.02
24	122771.92	112735.33	8378.90

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
25	123102.30	115175.43	8422.27
43	120606.40	096818.38	8881.35
46	131953.05	096842.20	8967.40
47	131406.54	099790.56	8735.34
48	129564.58	105575.88	8211.58
49	133890.19	103488.80	8895.50
50	134292.38	106557.44	9126.18
52	133973.27	112700.74	8892.11
53	133972.65	116076.79	8582.82
55	133461.40	122392.99	8389.42
57	122796.10	125334.72	8596.38
58	119334.36	118753.61	8611.35
59	112742.29	118595.02	8251.06
60	112677.39	121836.63	8657.35
61	113581.19	125314.33	8711.65
62	115900.60	125001.09	8664.19
65	122998.42	100043.41	8275.61
67 (Revised)	120400.21	125572.86	7658.25
68	121008.54	128517.80	8667.51
69	121064.58	131691.97	8720.08
70	123166.59	128582.95	8637.33
71	121965.02	131669.43	8748.82

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
72	121091.97	134835.59	8810.09
73	130940.23	125235.97	8435.89
74	131206.85	128568.20	8474.85
75	128197.83	131572.43	8631.51
76	128706.03	134833.56	8705.02
77	138653.63	119486.03	8412.87
78	136770.99	122164.99	8341.95
79	137042.30	125376.08	8409.73
80	138131.90	128567.68	8420.98
81	137335.10	131613.73	8469.17
82	136757.67	134767.91	8595.58
83	145161.90	119006.17	8502.03
84	145310.24	122168.20	8379.41
85	145393.67	123937.67	8446.34
86	145687.89	126377.39	7222.27
87	145520.70	128446.66	7170.99
88	143117.38	131943.66	7115.53
89	140965.75	134680.45	6913.76
90	138349.45	123503.97	8350.67
91	140360.60	103418.30	9243.20
92	142200.39	106446.97	8784.97
93	140543.29	106496.64	8835.50
95	142287.36	112714.35	8157.58

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
96	142129.47	115804.45	8323.47
Target S-01	134412.69	109928.67	9099.23
Target S-02	142127.65	118654.01	8278.10
Target S-03	131206.75	128568.49	8474.79
Target 101	142259.06	109602.00	8552.72
Target 102	140976.06	129707.23	8536.62
Target 103	137042.33	125376.45	8409.71
Target 104	137335.16	131613.94	8469.01
Target 105	133222.00	119010.95	8401.37
Target 106	130239.16	124047.60	8405.61
Target 107	126214.50	109707.88	8269.56
Target 108	124851.64	120918.64	8513.89
Target 109	123283.19	122424.39	8685.95
Target 110	124577.10	133135.31	8756.13
111	131435.14	093398.98	9483.95
112	101809.44	93166.11	8206.73
113	109138.83	97006.51	8256.40
114	120548.07	094938.16	8918.07

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
4 Pines	134940.98	111950.24	9104.90
AcordLake	100330.43	86378.77	8031.46
All Day	124415.20	137279.51	8794.23
Alpine	122693.58	133912.37	8775.10
Baldy	106802.50	110566.59	8624.03
Bare Hill	136907.89	128650.98	8473.07
Barrier II	121546.60	110839.05	8359.58
Bart	132531.22	123248.44	8411.34
Blue Blob	129058.58	129542.30	8558.89
Bonnie	122603.34	118617.66	8580.47
Boulder	136741.64	121487.39	8391.12
Bud	127964.99	107186.72	8231.78
Bull	126376.68	110388.37	8298.63
Burn Out	138040.85	129607.77	8452.15
Butte	119468.45	107824.97	8513.92
By Ricci	145238.72	128819.35	7195.57
Castlegate	120940.28	111188.85	8366.35
Chimney Rock	130171.29	128312.17	8490.07
Chips	119943.68	113401.39	8419.17
Clay	136358.77	115069.31	9095.57
Cliff Edge	140641.19	130336.85	8434.25
Cow Trail	102478.62	108301.73	8524.99
Creek Hill	141988.81	133601.71	7018.19
Crossroad	121135.78	133856.06	8813.10

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Days End	125053.71	133352.20	8780.04
Dead Pine	118532.28	108623.09	8394.25
Duncan Peak	117641.30	099157.75	9255.24
Eagle	118292.79	113692.02	8433.71
Elk	112136.88	099467.17	8531.54
Everest	130826.10	097165.08	9029.84
Extra	138911.86	128161.89	8443.67
Fallen Pine	121845.42	125226.35	8619.66
First Time	120266.36	111722.00	8366.61
Forgot	129137.52	130560.75	8577.72
Freeway	125720.33	112564.03	8315.36
Garbage Can	102175.31	101467.61	7561.08
Gizmo	122137.04	129822.89	8673.16
Gnat	097162.73	111116.78	6716.70
Gobbler Gulch	121232.03	129666.98	8671.22
Grassy Knoll	145457.82	120897.55	8597.82
Green River	136951.77	124862.48	8505.73
Grouse	125780.48	117184.19	8484.19
Guard Shack	102480.18	101499.92	7552.14
Hail	123389.21	128574.54	8642.14
Head East	123040.13	129598.25	8665.50
Hidden	117192.48	110476.66	8425.89
Highland	144495.99	119415.42	8659.16
Hillcrest	124080.42	133992.88	8818.92
Hill Top	136802.66	133597.53	8722.09

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Hurry	125665.00	106492.42	8509.89
Jack Adley	105747.68	103040.36	8432.07
Jasen's Nest	132934.62	125327.45	8554.30
John's Rock	123848.46	134651.07	8828.95
Juan	123386.14	119603.88	8523.10
Justified	128683.85	133693.88	8709.89
Just Short	130862.41	128497.71	8483.68
Last Chance	115892.42	110035.39	8645.18
Link View	119626.35	123890.93	8644.73
Little Duncan	112480.42	109271.23	8990.15
Little Pine	120626.81	122034.00	8770.46
Lucky	097058.75	113724.52	6595.87
Marcy	100342.33	104808.45	7061.46
Meatloaf	134988.07	125832.28	8479.53
Midway	128483.90	121492.16	8458.22
Mineroad1	100290.94	096964.02	7577.04
Moe	143714.16	118339.95	8360.98
Mortensen Point	101559.99	101384.00	7571.94
Mountain Mahogany	133803.19	114797.44	8592.09
Muddy Rim	145288.54	124311.74	8328.19
Muddy Vista	145902.97	120205.73	8576.45
Murphy	119417.11	114774.23	8572.64
Nancy	124336.00	124784.76	8778.71
No Name	124961.47	107615.96	8304.06

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Oak	115633.20	110789.61	8468.06
Old Road	128492.07	115262.29	8456.61
One Jump	116111.78	115519.96	8536.01
Oscar	111252.09	103359.60	8414.10
Over Time	122088.93	114328.74	8464.99
Paintbrush	136700.67	125597.47	8420.74
Pine Grove	120940.90	128889.96	8683.13
Pine Hen	115127.26	099989.31	9001.95
P.K. Nail	118833.45	109123.60	8380.36
Pot Hole	108988.85	099782.73	8294.55
Prairie View	131204.98	125857.42	8451.01
Rain Gauge	102916.00	101948.87	7558.53
Rain Rock	121342.03	130240.93	8691.08
Ramble On	121927.63	131923.04	8758.11
Range Pole	125342.96	113084.37	8356.94
Rattle Snake	105717.67	105315.88	8411.86
Red Nose	111823.28	124354.97	8667.55
Ridge	117278.21	107079.21	8630.86
Rim Rock	102804.40	100422.90	8367.60
Rocknest	144458.05	129952.07	7154.21
Rock On	122072.13	131499.36	8738.41
Rocky II	126969.22	109539.79	8320.28
Sage	128102.11	134164.59	8718.55
Sandhill	122060.12	134109.81	8811.25
Sandridge	121328.27	127907.98	8648.74

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Scales	103185.47	101587.37	7548.18
Sedpond1	102002.12	101463.23	7562.73
Shady Pines	125570.58	133937.70	8766.82
Single Tree	131237.84	127470.34	8460.00
SKS	123193.35	135241.06	8832.12
Slab Rock	119915.33	104763.90	8549.06
Slaughter Hill	144554.25	122928.40	8560.94
South Fork	122360.32	102147.28	8217.44
Spike	106426.93	100039.17	8325.62
Split Rock	129534.95	128829.31	8519.39
Standard	133589.26	108900.52	9139.56
Stock Pond	132382.89	118400.29	8390.90
Stonewood	121550.07	134283.71	8815.21
Stumpy	127542.00	131932.07	8660.21
Substation B.M.	102787.93	102081.34	7563.46
Sunspot	122068.81	130374.08	8705.83
Switchback	120172.62	126162.50	7826.13
Terrace	103533.00	101612.28	7598.64
That	134704.05	121439.83	8354.24
This	133853.23	122161.75	8385.37
Three Pines	128994.27	131195.32	8610.37
Thunder Ridge	145713.29	121585.36	8502.52
Two Flats	121612.91	132938.78	8783.19
U.S.G.S.	130065.44	100406.72	8648.16
Valley View	115797.62	099307.50	9054.37

TABLE 5-2 (Continued)

Subsidence Control Point Survey Data

Station Name	Northing	Easting	Elevation
Vanwinkle	120967.82	131485.30	8738.62
Wasatch2	176502.69	091318.15	11130.23
White Rocks	119944.80	116486.58	8530.16
White Rocks II	119945.83	116485.02	8526.53
Wilco	120846.31	129130.30	8685.09
Wildcat	121403.85	122435.42	9030.03
Wileys	130032.60	134664.80	8652.51
Window	125525.90	111439.67	8290.13