

NOTE:

- Segment part of existing route.
- Connectors common to Burnout Canyon and Gooseberry Routes.
- 0.0/0.0 Figure on left side reflects total for entire route.
- Figure on right side reflects total for affected portion.

TABLE 2-2  
SUMMARY OF IMPACTS

ISSUE	A. NO ACTION: FULL PROTECTION	B. LEAVE IN PLACE: FULL EXTRACTION MINING	C. BURNOUT CANYON ROUTE				D. GOOSEBERRY ROUTE	VALLEY CAMP TRIANGLE CONNECTOR **			E. WINTER QUARTERS ROUTE	
			(1)	(2)	(3)	(4)		(1)	(2)	(3)	(1)	(2)
Length in miles (entire route/new pipeline)	13.6/0.0	13.6/4.25	14.9/5.7	15.1/5.2	15.1/5.9	15.3/5.4	16.7/12.6	1.0/0.8	0.9/0.6	0.5/0.5	20.2/12.4	20.0/12.2
Geology (land instability)	High: 0.7 ml/0.0 ml. Mod: 4.3 ml/0.0 ml.	High: 0.7 ml/0.0 ml. Mod: 4.3 ml/0.6 ml.	High: 0.7 ml/0.0 ml. Mod: 4.2 ml/0.6 ml.	High: 0.7 ml/0.0 ml. Mod: 4.5 ml/0.9 ml.	High: 0.7 ml/0.0 ml. Mod: 4.0 ml/0.4 ml.	High: 0.7 ml/0.0 ml. Mod: 4.5 ml/0.9 ml.	High: 0.6 ml/0.6 ml. Mod: 3.4 ml/2.0 ml.	High: 0.0 ml/0.0 ml. Mod: 0.1 ml/0.0 ml.	High: 0.4 ml/0.4 ml. Mod: 0.0 ml/0.0 ml.	High: 0.0 ml/0.0 ml. Mod: 0.0 ml/0.0 ml.	High: 0.7 ml/0.0 ml. Mod: 3.3 ml/0.3 ml.	High: 0.7 ml/0.0 ml. Mod: 3.7 ml/0.7 ml.
Recoverable Coal - Million tons (mm) lost	27.8 mm/14.9 mm	12.7 mm/0.0 mm	14.7 mm/2.6 mm	17.4 mm/2.9 mm	14.7 mm/2.6 mm	17.4 mm/2.9 mm	11.8 mm/9.6 mm	0.6 mm/0.0 mm	2.1 mm/1.8 mm	1.4 mm/1.4 mm	24.7 mm/17.4 mm	18.9 mm/11.6 mm
Soils and Water (long-term impacts from sediment production, no high impacts in project area)	Mod: 0.7 ml/0.0 ml. Low: 12.8 ml/0.0 ml.	Mod: 0.7 ml/0.0 ml. Low: 12.8 ml/4.25 ml.	Mod: 0.7 ml/0.0 ml. Low: 14.2 ml/5.7 ml.	Mod: 0.7 ml/0.0 ml. Low: 14.4 ml/5.2 ml.	Mod: 0.7 ml/0.0 ml. Low: 14.4 ml/5.9 ml.	Mod: 0.7 ml/0.0 ml. Low: 14.6 ml/5.4 ml.	Mod: 0.6 ml/0.6 ml. Low: 16.1 ml/12.0 ml.	Mod: 0.0 ml/0.0 ml. Low: 1.0 ml/0.61 ml.	Mod: 0.4 ml/0.4 ml. Low: 0.5 ml/0.2 ml.	Mod: 0.0 ml/0.0 ml. Low: 0.5 ml/0.5 ml.	Mod: 0.7 ml/0.0 ml. Low: 19.5 ml/12.4 ml.	Mod: 0.7 ml/0.0 ml. Low: 19.3 ml/12.2 ml.
Stream Crossings (new pipeline, perennial streams)	No effect	No effect	10	10	3	3	6	No identifiable effect	No identifiable effect	No identifiable effect	2 (2)	5 (5)
Riparian (short-term impacts)	Mod-High: 0.4 ml/0.0 ml.	Mod-High: 0.4 ml/0.0 ml.	Mod-High: 3.3 ml/3.3 ml.	Mod-High: 3.3 ml/3.3 ml.	Mod-High: 0.3 ml/0.3 ml.	Mod-High: 0.5 ml/0.5 ml.	Mod-High: 1.9 ml/1.9 ml.	No identifiable effect	No identifiable effect	No identifiable effect	Mod-High: 0.4 ml/0.4 ml.	Mod-High: 1.8 ml/1.8 ml.
Range (animal unit months (AUM) impacted) (acres shown in parentheses)	No effect	11.8 (98.2)	13.0 (108.4)	13.2 (109.8)	13.0 (109.8)	13.2 (111.3)	14.6 (121.5)	0.9 (7.3)	0.8 (6.5)	0.4 (3.8)	117.1	125.1
Timber (thousand board feet (MBF), live timber)	No effect	No effect	424.0	410.6	424.0	410.6	616.4	127	127	71.1	607 (607)	811.9 (811.9)
Fisheries	Mod-High: 0.0 ml. Mod: 0.0 ml. Low-Mod: 0.5 ml.	Mod-High: 0.0 ml. Mod: 0.0 ml. Low-Mod: 0.5 ml.	Mod-High: 3.0 ml. Mod: 0.4 ml. Low-Mod: 0.5 ml.	Mod-High: 3.0 ml. Mod: 0.4 ml. Low-Mod: 0.5 ml.	Mod-High: 0.7 ml. Mod: 0.0 ml. Low-Mod: 0.1 ml.	Mod-High: 1.0 ml. Mod: 0.4 ml. Low-Mod: 0.5 ml.	Mod-High: 1.4 ml. Mod: 0.0 ml. Low-Mod: 0.9 ml.	No effect	No effect	No effect	Mod-High: 0.0 ml. (0.0 ml.) Mod: 0.5 ml. (0.5 ml.) Low-Mod: 1.0 ml. (1.0 ml.)	Mod-High: 0.0 ml. (0.0 ml.) Mod: 2.8 ml. (2.8 ml.) Low-Mod: 2.1 ml. (2.1 ml.)
Visual	No effect	High: 4.25 ml. Mod: 0.0 ml. Low: 0.0 ml.	High: 0.0 ml. Mod: 2.8 ml. Low: 2.8 ml.	High: 0.0 ml. Mod: 1.8 ml. Low: 3.4 ml.	High: 0.0 ml. Mod: 3.0 ml. Low: 2.8 ml.	High: 0.0 ml. Mod: 2.1 ml. Low: 3.2 ml.	High: 0.4 ml. Mod: 4.0 ml. Low: 6.5 ml.	High: 0.0 ml. Mod: 4.0 ml. Low: 0.8 ml.	High: 0.0 ml. Mod: 0.0 ml. Low: 0.5 ml.	High: 0.0 ml. Mod: 0.0 ml. Low: 0.0 ml.	High: 0.5 ml. (0.5 ml.) Mod: 0.7 ml. (0.7 ml.) Low: 2.7 ml. (2.7 ml.)	High: 0.5 ml. (0.5 ml.) Mod: 1.7 ml. (1.7 ml.) Low: 4.4 ml. (4.4 ml.)
		Placement of redundant pipeline would create a visual contrast (Segments 17 and 18). Visual impacts would be long term or permanent but in an area not viewed from sensitive viewpoints.	Short-term moderate impacts would occur to views from Highway 264, a scenic byway, from construction and reclamation. Moderate impacts would occur where stands of trees would be removed along Segment 3b.	Short-term moderate impacts would occur to views from Highway 264, a scenic byway, from construction and reclamation. Moderate impacts would occur where stands of trees would be removed along Segment 3b.	Short-term moderate impacts would occur to views from Highway 264, a scenic byway, from construction and reclamation activities. Moderate impacts would occur where stands of trees would be removed along Segment 3b.	Short-term moderate impacts would occur to views from Highway 264, a scenic byway, from construction and reclamation. Moderate impacts would occur where stands of trees would be removed along Segment 3b.	Moderate-to-high visual impacts to views from Gooseberry Campground (Segment 1) and moderate impacts along Skyline Drive, a scenic byway. Short-term moderate impacts would occur to views from Highway 264, a scenic byway, from construction and reclamation. Moderate impacts would occur where stands of trees would be removed along Segment 3.	Low impacts where stands of trees would be removed (Segment 5.6).	Low impacts where stands of trees would be removed (Segment 4).	Moderate impacts where stands of trees would be removed (Segments 4 and 9).	Construction disturbance along Segment 20 south of Scofield would create moderate-to-high visual impacts to views from residences and Highway 96.	Construction disturbance along Segment 20 south of Scofield would create moderate-to-high visual impacts to views from residences and Highway 96. High impacts would result from construction along Segment 21 where it descends the steep-sloped north ridge of Broad Canyon openly visible from Highway 96.
Socioeconomic - Benefits from Construction (salaries, goods, services)	No beneficial impacts to local economy	Beneficial impacts from construction to local economy could range from \$173,800 to \$294,800; from installation of strain gauges \$272,250; total: \$567,050.	Beneficial impacts from construction to local economy could range from \$522,500 to \$1,235,000 over life of project.	Beneficial impacts from construction to local economy could range from \$522,500 to \$1,235,000 over life of project.	Beneficial impacts from construction to local economy could range from \$522,500 to \$1,235,000 over life of project.	Beneficial impacts from construction to local economy could range from \$522,500 to \$1,235,000 over life of project.	Beneficial impacts from construction to local economy could range \$1,037,500 to \$1,971,500 over life of project.	Refer to descriptions for Burnout Canyon or Gooseberry routes.	Refer to descriptions for Burnout Canyon or Gooseberry routes.	Refer to descriptions for Burnout Canyon or Gooseberry routes.	Beneficial impacts to local economy could range \$1,037,500 to \$1,971,500 over life of project.	Beneficial impacts to local economy could range \$1,037,500 to \$1,971,500 over life of project.
- 8% Federal royalty unrealized (million dollars)	\$55.2/\$29.8	\$25.4/\$0.0	\$29.4/\$5.2	\$34.8/\$5.8	\$29.4/\$5.2	\$34.8/\$5.8	\$19.0/\$14.6	\$4.2/\$3.0	\$4.2/\$3.8	\$2.8/\$2.8	\$42.4/\$27.8	\$29.2/\$14.6
Estimated Acquisition, Construction, and Average Reclamation Costs	None	\$3,334,000	\$2,197,000	\$1,898,000	\$3,060,200	\$2,781,200	\$8,549,800	\$240,500	\$2,653,500	\$1,814,500	\$15,806,240	\$10,356,000
Annual Maintenance (entire route)	\$24,300	\$146,650 (15.20 years)	\$26,820	\$27,180	\$28,062	\$28,220	\$30,060	\$1,800	\$1,620	\$900	\$36,360	\$36,000
Probability of Pipeline Completion in 1990 (constraints in parentheses)	No effect	Low (requires FERC 7c approval)	High (requires Valley Camp agreement, Army Corps of Engineers (COE) 404 permit)	High (requires Valley Camp agreement, COE 404 permit)	High (requires Valley Camp agreement, Stream Channel Alteration (SCA) permit, UDOT utility permit)	High (requires Valley Camp agreement, SCA permit, UDOT utility permit)	Moderate (requires Valley Camp agreement, COE 404 permit, private surface and coal acquisition)	High	High	High	Low (requires private surface and private/Federal coal acquisition, COE 404 permit).	Low (requires private surface and private/Federal coal acquisition, COE 404 permit(?))
Cultural Resources	No effect	No effect. Assumed that any cultural resources along existing route have lost integrity as a result of disturbance caused by initial pipeline construction.	2.1 miles of moderate impacts (possible Pleistocene fauna). No high impacts anticipated.	2.1 miles of moderate impact (possible Pleistocene fauna). No high impacts anticipated.	0.4 mile of low impacts. 0.3 mile of moderate impacts (possible Pleistocene fauna).	0.4 miles of low impacts. 0.3 mile of moderate impacts (possible Pleistocene fauna).	2.2 miles of low impacts. 0.7 mile of moderate impacts (possible Pleistocene fauna). No high impacts anticipated.	Survey completed; no cultural resources found.	Survey completed; no cultural resources found.	Survey completed; no cultural resources found.	Segments 20 and 22 would have 6.5 miles of low impacts and 0.9 mile of moderate impacts (possible Pleistocene fauna). No high impacts anticipated.	Segments 20, 21, would have 5.1 miles of low impacts, 1.3 miles moderate potential impact (historic resources and Pleistocene fauna) and 1.8 miles of high potential impact (extant historic railroad and possible Pleistocene fauna).