PROPOSED FEDERAL LEASE MODIFICATION
(360 ACRES)

GIL-15 (DBT FACE RH)
1,319,314 Tons

GIL-14 (DBT FACE RH)
1,392,661 Tons

GIL-13 (JOY FACE RH)
1,411,669 Tons

GIL-17 (JOY FACE RH)
939,103 Tons

GIL-16 (JOY FACE RH)
711,030 Tons

GIL-2
1,640,600 Tons Plan
1,793,608 Tons Actual

GIL-1
1,835,000 Tons Plan
1,806,000 Tons Actual

GIL-3
2,244,627 Tons Plan
2,289,925 Tons Actual

GIL-4
2,209,879 Tons Plan
2,158,942 Tons Actual

GIL-4a
776,091 Tons Plan
815,049 Tons Actual

GIL-4b (DBT FACE LH)
1,240,843 Tons

GIL-9

GIL-8 (JOY FACE RH)
2,053,140 Tons

GIL-7 (DBT FACE RH)
2,180,692 Tons

GIL-6
3,506,420 Tons Plan
3,438,270 Tons Actual

GIL-5
2,879,969 Tons Plan
2,979,516 Tons Actual

GIL-10 (DBT FACE LH)
2,029,545 Tons

GIL-11 (DBT FACE LH)
1,708,051 Tons

GIL-12 (DBT FACE LH)
1,212,942 Tons

GIL-12A (DBT FACE LH)
1,211,689 Tons

U-07064-027821

ML-42648

FEE-DUGOUT CANYON

ML-48435

ML-50582-OBA

U-07064-027821-BONUS

ROCK SLOPES TO ROCK CANYON SEAM

800' Barrier

425' Barrier

375' Barrier

DUGOUT CREEK

PACE CREEK

West Pace Canyon Fault

East Pace Canyon Fault

Surface Expression of Fault

D 15-20'

D 8'

SEAM GEOLOGY INFORMATION

SEAM THICKNESS ISOPACH

OVERBURDEN ISOPACH (FT)

COAL BURN & OUTCROP

SANDSTONE CHANNEL

Previous Mining
Remaining 2008
1st Quarter 2009
2nd Quarter 2009
3rd Quarter 2009
4th Quarter 2009
2010
2011
2012
2013
Existing Mine Workings
Interior Lease Boundary
Exterior Lease Boundary
Gilson Seam Projections

RECEIVED
MAY 07 2009
DIV OF OIL, GAS & MINING

REGISTERED PROFESSIONAL ENGINEER
No. 151610
DAVID G. SPILLMAN
4/27/09
STATE OF UTAH

N

DATE: 10/21/08	Canyon Fuel Company, LLC Dugout Canyon Mine
DESIGNED BY:	
DRAWN BY: JKS	Gilson Seam 2009 Budget Map
CHECKED BY: BS	
REVISED BY:	
SCALE: 1"=900'	P.O. BOX 1029 WELLINGTON, UTAH 84542
FILENAME:	DRAWING OR MAP NUMBER