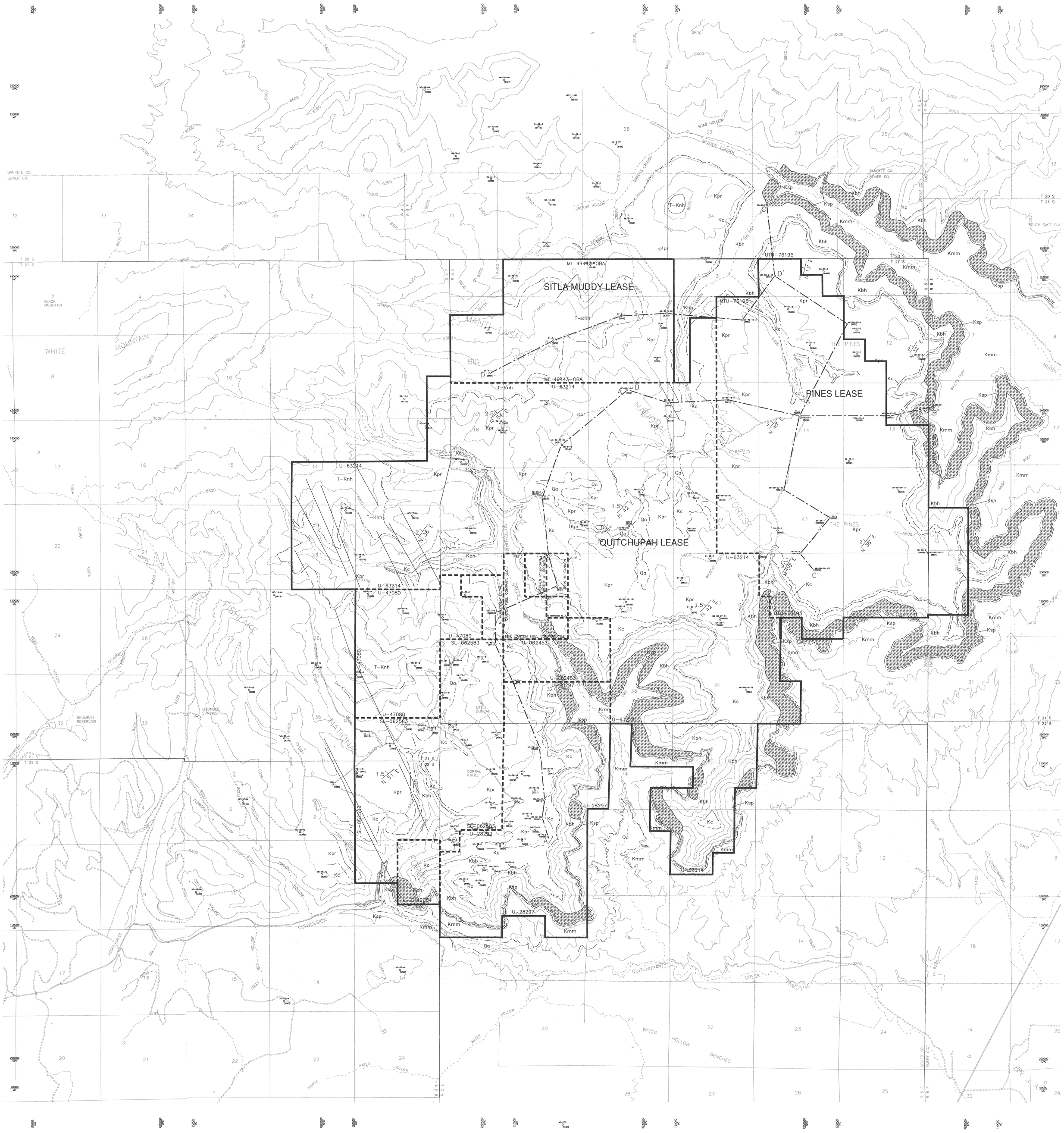

NOTE:
1. CONTACTS HAVE NOT BEEN FIELD CHECKED.
2. FAULTS PROJECTED TO SURFACE FROM MINE

EXPLANATION

- UPPER HIAWATHA COAL SEAM OUTCROP
- EXTERIOR LEASE BOUNDARY
- INTERIOR LEASE BOUNDARY
- 100000 MC — MINE BASE COORDINATES
- 2020000 SPC — STATE PLANE COORDINATES
- US-79-2 (8497) — DRILLHOLE LOCATION AND NUMBER, DRILLHOLE SURFACE ELEVATION
- FORMATION OR MEMBER CONTACT
- FAULTS WITH GREATER THAN 2' DISPLACEMENT MAPPED IN MINE
- A'—A CROSS-SECTION (SEE PLATE 6-2, 6-3, 6-4 AND 6-5)
- PROPOSED NEWLY BUILT ACCESS ROUTES
- PROPOSED ACCESS ROUTES USING EXISTING WHEEL TRACKS OR EXISTING SURFACE

GEOLOGIC KEY

AGE	SYMBOL	NAME
QUATERNARY	Qa	ALLUVIUM, HILL WASH, SLUMPS UNDIFFERENTIATED
TERT-CRET	T-Knh	NORTH HORN FORMATION
CRETACEOUS	Kpr	PRICE RIVER FORMATION
"	Kc	CASTLEGATE SANDSTONE FORMATION
"	Kbh	BLACKHAWK FORMATION-UPPER MEMBER
"	Ksp	BLACKHAWK FORMATION-STARPOINT SANDSTONE MEMBER
"	Kmm	MANCOS SHALE-MASUK MEMBER
	1.5 / N 42 E	CALCULATED STRIKE AND DIP TOP UPPER HIAWATHA COAL SEAM
		COAL BURN

SOURCES:

1. QUITCHUPAH LEASE ADDITION, VOLUME 10, MAPS 5.2, 5.3, 6.1, 1989 HYDROMETRICS INC. SOUTHERN UTAH FUEL COMPANY'S HYDROLOGICAL RESPONSE TO OSM'S APPARENT COMPLETENESS REVIEW
2. MANTI-LA SAL NATIONAL FOREST-PINES TRACT PROJECT FINAL ENVIRONMENTAL IMPACT STATEMENT (FEIS) FIGURE 3-1 GEOLOGY MAP JANUARY 1999 USDA FOREST SERVICE, REGION FOUR MANTI-LA SAL NATIONAL FOREST EMERY AND SEVIER COUNTIES, UTAH
3. COAL TRACT EVALUATIONS ON THE MANTI-LASAL NATIONAL FOREST MUDDY CREEK AND NORTH HORN SURFACE AND GROUND WATER TECHNICAL REPORTS FIGURE 2 GEOLOGY MAP WITH SPRING LOCATIONS. MUDDY COAL TRACT EIS, EMERY CO. UTAH OCTOBER 2004

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DIV. OF OIL, GAS & MINING

REGISTERED PROFESSIONAL ENGINEER 152899-2230 MARK DONALD BUNNELL STATE OF UTAH

REGISTERED PROFESSIONAL ENGINEER #334004-2202 JOHN D. BYARS STATE OF UTAH

I CERTIFY THE ITEMS SHOWN ON THIS DRAWING ARE ACCURATE TO THE BEST OF MY KNOWLEDGE

2000 0 2000

REVISIONS OR UP-DATES			DATE: JAN. 09, 1997	
NO.	DATE	BY	DESIGNED BY:	
2	NOV. 24, 1998	WKS	DRAWN BY:	KJW
3	FEB. 19, 1999	BDH	CHECKED BY:	WKS
4	DEC. 10, 2001	MLD		
5	JAN. 20, 2005	MLD		
6	MAY 8, 2007	MLD	SCALE:	1" = 2000'

FILENAME: H:\DRAWINGS\MRP\PLATES\PLATE6-1v6.DWG

Canyon Fuel Company, LLC
SUFCO Mine

GEOLOGY AND DRILLHOLE LOCATION MAP

397 SOUTH 800 WEST
SALINA, UTAH 84654

DRAWING OR MAP NUMBER: PLATE 6-1