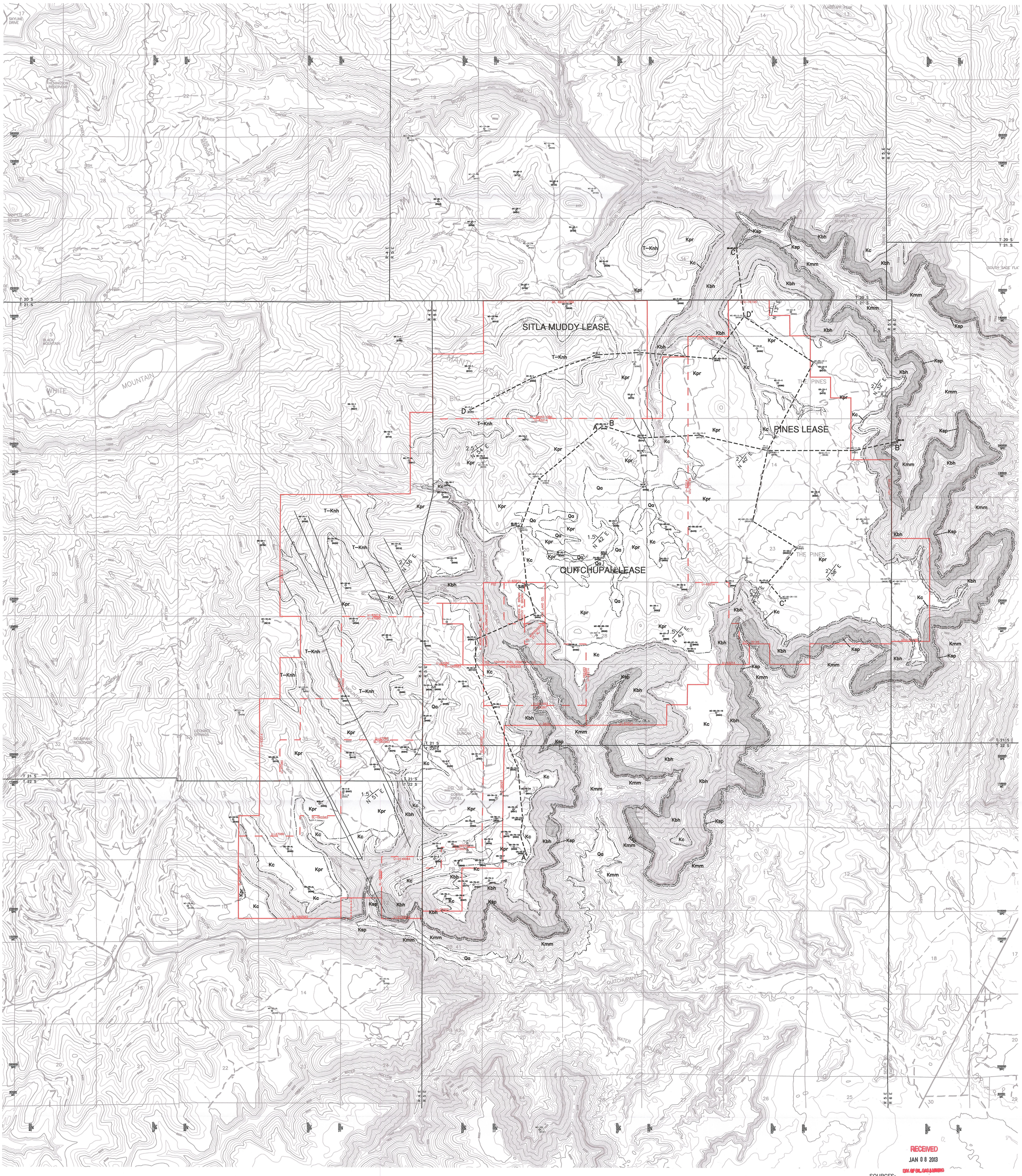

RECEIVED
JAN 08 2013
DIV. OF OIL, GAS & MINING

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

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

EXPLANATION

- UPPER HIAWATHA COAL SEAM OUTCROP
- EXTERIOR LEASE BOUNDARY
- INTERIOR LEASE BOUNDARY
- SUFCO PROPOSED LEASE MODIFICATION
- 100000 MC — MINE BASE COORDINATES
- 2020000 SPC — STATE PLANE COORDINATES
- US-79-2 O (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

REGISTERED PROFESSIONAL GEOLOGIST #5280976-2230 MARK DONALD BUNNELL STATE OF UTAH

REGISTERED PROFESSIONAL ENGINEER #334504-2202 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				
NO.	DATE	REQ. BY	DWG. BY	REMARKS
3	02/19/99	MLD	BDH	
4	12/10/01	MLD	BDH	
5	01/20/05	MLD	BDH	
6	05/08/07	MLD	KBB	
7	06/11/10	MLD	KBB	
8	01/08/13	VSM	TRB	

Canyon Fuel Company, LLC
SUFCO Mine
597 South SR 24 - Salina, UT 84654
(435) 286-4880 Phone
(435) 286-4499 Fax

GEOLOGY AND

SCALE:	DATE:	DRAWN BY:	ENGINEER:	SHEET NO.
1" = 2000'	01/09/97	KJW\TRB	WKS	PLATE 6-1v8
CHECKED BY: MLD	FILE NAME: H:\DRAWINGS\MRP\PLATES\WL 20 LE\PLATE 6-1v8.dwg			