

**From:** <Gregg\_Hudson@blm.gov>  
**To:** Karl M Boyer <kboyer@fs.fed.us>, Dale Harber <dharber@fs.fed.us>, "Pam Grubaugh-Littig" <PAMGRUBAUGHLITTIG@utah.gov>  
**Date:** 6/21/2005 12:05:22 PM  
**Subject:** Fw: Revised hole locations, Granger Ridge Exploration License Application

Here we go folks!

Gregg

----- Forwarded by Gregg Hudson/UTSO/UT/BLM/DOI on 06/21/2005 11:52 AM

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"Bunnell, Mark"  
<MBunnell@archcoa  
l.com> To  
"Greg Hudson (E-mail)"  
06/17/2005 01:17 <greg\_hudson@blm.gov>  
PM cc  
Subject  
Revised hole locations, Granger  
Ridge Exploration License  
Application

Greg:

Attached are revised pages 3, 6, and 9 of the Granger Ridge Exploration License application. Pages 3 and 6 are Maps 1 and 2 and Page 9 is the text description of the drillsite locations. During staking of the drillholes it became necessary to move the locations of holes F, H, I, and J to allow safe helicopter access.

A hard copy letter with 5 copies of the revised pages has been mailed to Jim Kohler's attention.

Also attached is a revised gps coordinate table for the drillsites.

I will be out of the office from June 20 thru 24. I will be checking my voicemail. If you have questions please leave me a message at 435-448-2633 or 435-286-4403.

Thanks,

Mark

<<muddy-blm-2005drill-covltr-revpg369.pdf>>  
<<2005skylicense-planpg3rev1.pdf>> <<2005skylicense-planpg6rev1.pdf>>  
<<2005skylicense-planpg9rev1.pdf>>

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(See attached file: muddy-blm-2005drill-covltr-revpg369.pdf)(See attached file: 2005skylicense-planpg3rev1.pdf)(See attached file: 2005skylicense-planpg6rev1.pdf)(See attached file: 2005skylicense-planpg9rev1.pdf)

**CC:** <James\_Kohler@blm.gov>, <sburger@blm.gov>, <Don\_Stephens@blm.gov>, <Bill\_Buge@blm.gov>



ArkLand Company  
o/o Canyon Fuel Co., LLC  
Skyline Mines  
HC35Box 380  
Heper, Utah 84526  
435-448-2633

June 17, 2005

Mr. James Kohler  
Bureau of Land Management  
Utah State Office  
PO Box 45155  
Salt Lake City, Utah 84145-0155

Re: Combined Coal Exploration License Application, Granger Ridge Tract; and Coal Exploration Plan, Federal Coal Lease UTU-67939, 2005, Revised Pages 3, 6, and 9, Revised Borehole Locations

Dear Jim:

Attached are 5 copies of revised pages 3, 6 and 9 to the Combined Coal Exploration License, Granger Ridge Tract, and Coal Exploration Plan, Lease UTU-67939. During staking of locations in the field it became necessary to alter locations for proposed boreholes F, H, I, and J to allow safe helicopter access. The maps have been revised (pages 3 and 6) as well as the text describing hole locations (page 9). These pages should replace the same pages in the original application.

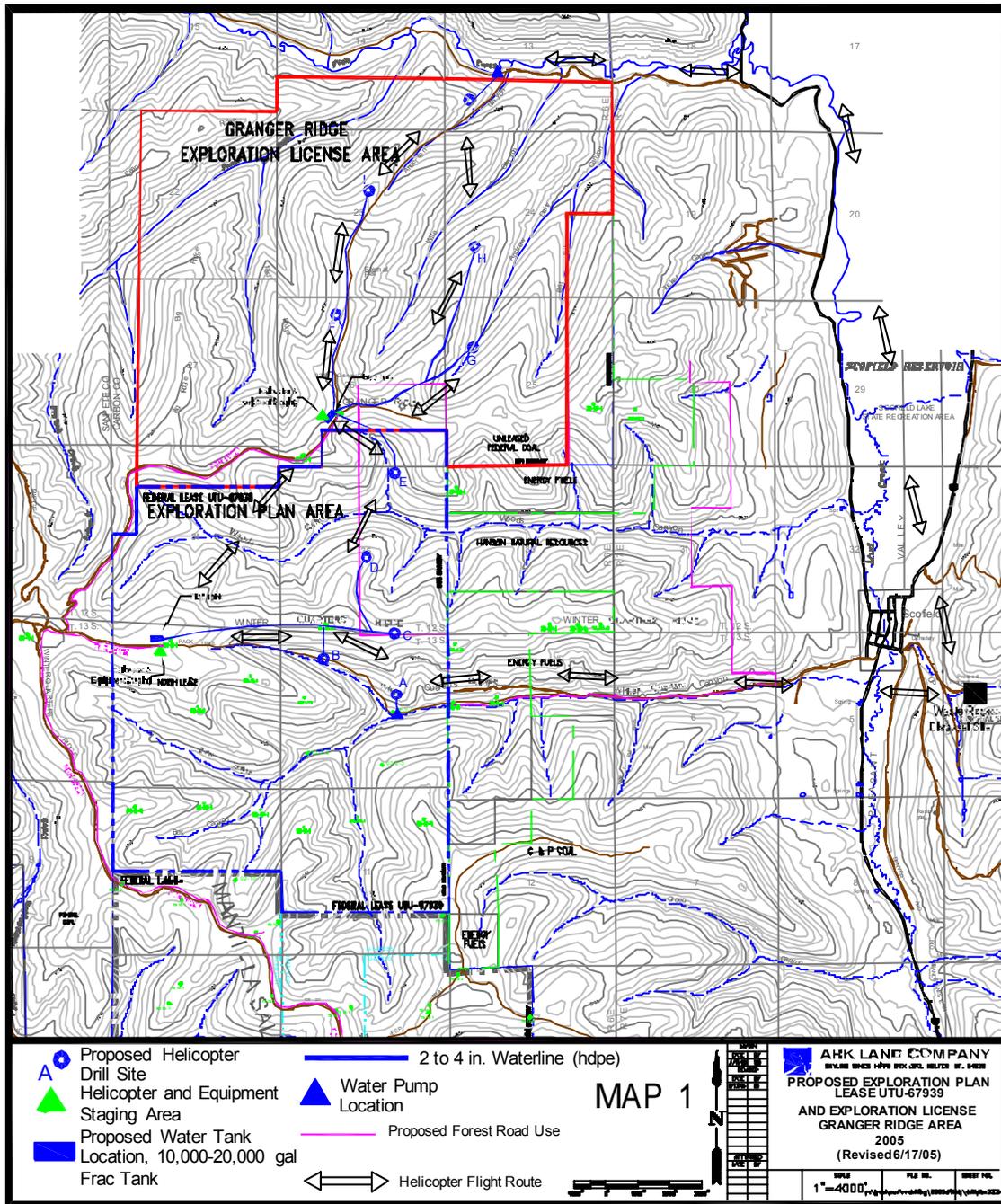
If you have questions or require further information, please call me at 435-448-2633.

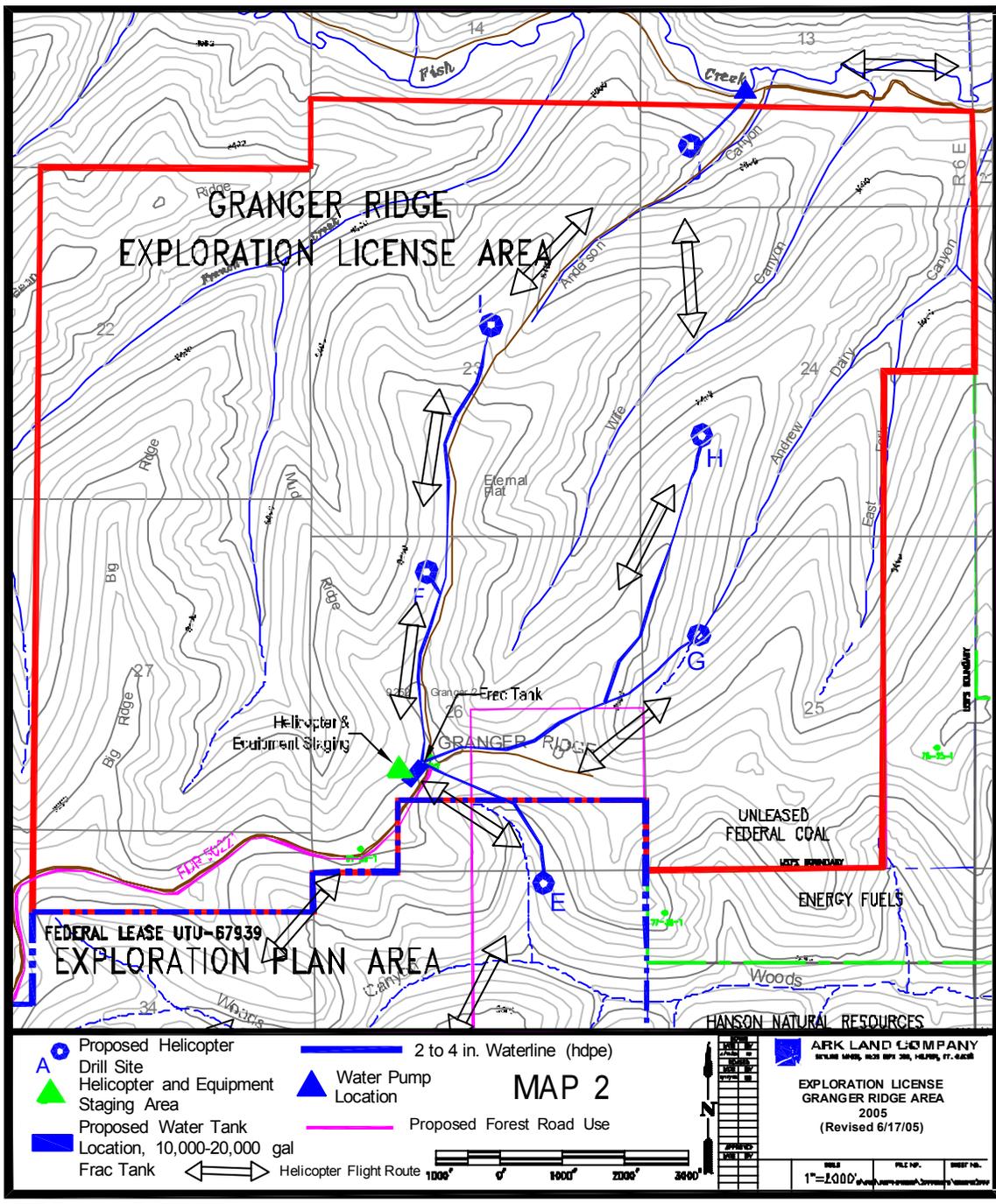
Attached are 5 copies.

Sincerely,

A handwritten signature in black ink that reads "Mark Bunnell".

Mark Bunnell  
Geologist  
Attach.





Proposed Helicopter Drill Site	2 to 4 in. Waterline (hdpe)		<b>ARK LAND COMPANY</b> 2005 EXPLORATION LICENSE GRANGER RIDGE AREA (Revised 6/17/05)						
Helicopter and Equipment Staging Area	Water Pump Location								
Proposed Water Tank Location, 10,000-20,000 gal	Proposed Forest Road Use	<b>MAP 2</b> 							
Frac Tank	Helicopter Flight Route	<table border="1"> <tr> <td>DATE</td> <td>FILE NO.</td> <td>SHEET NO.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		DATE	FILE NO.	SHEET NO.			
DATE	FILE NO.	SHEET NO.							

A site-specific cultural resources survey for this project will be conducted in early Summer 2005, prior to commencement of any field operations. Results will be forwarded to the BLM upon completion.

### Exploration

The drill site locations and projected depths are tabulated as follows:

Site	Location	Projected TD
F	NE, NW, 26, 12S, 6E	1300 ft
G	SW, NW, 25, 12S, 6E	1000 ft
H	NW, SW, 24, 12S, 6E	950 ft
I	SW, NE, 23, 12S, 6E	950 ft
J	SW, SW, 13, 12S, 6E	1000 ft (?? In graben ??)

It should be noted that five additional holes (A thru E) are being planned as part of the overall drilling project (Map 1). These holes are located on federal lease UTU-67939 and will be discussed in Section 2 of this application. All ten holes will be drilled as part of a combined drilling project.

### Drilling

The planned drilling method is helicopter-supported continuous wireline core drilling. The entire borehole will be core drilled from surface through the lowest coal seam horizon. Exploration equipment for the drilling phase will include up to 3 heli-portable skid-mounted core drilling rig(s) together with all necessary heli-portable equipment such as drill rod trays, mud tanks, water tanks, water pump, etc.

Core drilling will involve one to three skid-mounted 2000 ft rated core drills, one or two 1000 gal. poly water tanks for each drill rig, two water trough-type mudtanks for each rig, and 4 to 6 drill rod trays for each rig. Other support equipment will include 4000 gallon water trucks to supply the 18,000 gal. frac tanks, one 1500 gallon water/fire truck, two to four 18,000 gallon frac tanks depending on water usage, two to three supply trailers parked at staging areas, up to 8 pick-up trucks, and a geophysical logging truck. The drilling procedure for the exploration holes will be to continuously core to total depth. Twenty to 100 ft. of surface casing will be set in each hole depending on hole conditions. None of the holes will be completed as a water monitor well due to the relative small size of the heli-portable drilling equipment. Water will be hauled from the Skyline minesite with the exception of drillhole "J" which will utilize water pumped from the adjacent drainage or, if water flow is insufficient, from Fish Creek. Fifth-wheel supply trailers will carry the heli-portable equipment, including drills, drill steels, coring equipment, drilling additives, cutting and welding equipment, and other supplies. One pick-up truck will be used for each drill rig by the drillers to carry personnel, fuel, and supplies and two to three pickup trucks will be used by the dirt contractor. The logging contractor will use a single axle 1 ton rated truck. The company representative and geological consultant will also use pick-up trucks for transportation.