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EXPLORATION PLAN

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- Refer to:
- Confidential
- Shelf
- Expandable

Date _____ For additional information

0004

July 27, 1979

EXPLORATION PLAN

Federal Leases No. U-07747⁶
U-089096
U-092147
U-0144820



SCOPE OF THE PROPOSED WORK

Eureka Energy Company would like to explore and uncover the coal seams in three areas within the above coal leases to determine thicknesses of the coal seams and the amount of over burden or burn material.

Site No. 1 will be located in Carbula Canyon. Located in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$, Section 21, T13S., R12E., S.L.B. & M.

Site No. 2 will be located in Fish Creek, Section 16, T13S., R12E., primarily on Fee ground. However, it may be necessary to go out of the Fee ground boundary and excavate into the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 21, T13S, R12E., S.L.B. & M.

Site No. 3 would be located in Canyon "X" off Dugout Canyon and would be located in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 22, T13S., R12E., S.L.B. & M.

Site No. 1 in the area known as Carbula Canyon, the proposed excavation would be located adjacent to a single lane access road that was constructed for drill site 21-1 in 1978. The area has had an Archeological clearance completed at the time of drill site 21-1. Exploration would consist of exposing the coal seam in two places in the canyon. The Rock Canyon and the Gilson seams would be uncovered. Excavation will be done with the aid of a backhoe and a dozer, in an effort to keep the excavation to a very minimum. Only coal exploration will be done to verify thickness

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of the seams at the place of exposure. Plats in the Carbon County Courthouse indicate the surface ownership of Section 21 and 22, T.13S., R.12E., S.L.B.& M. to be public domain, no private ownership.

In addition to the uncovering of the coal seams, several shallow drill holes will be placed at each site. These holes will be about 200 to 300 feet in depth and will be used to determine the extent of the burned coal, as evidenced by the outcrops in the canyon.

Access roads to the drill sites will be constructed above the approximate location of the coal seams and parallel with the canyon wall. The roads will be about 1500 feet in length and single lane. Major access roads to the sites are existent.

Due to the shallowness of the drill holes it is not anticipated that mud pits will be needed. Again these holes are to locate the extent of the burned areas at Site No. 1, No. 2, and No. 3. The exact location of each hole is not known at this time (approximate position on accompany map). This is due in part to the fact that some areas in the canyon show more depth of burn than other areas. The access road will also serve as the drilling pad, therefore, no widening will be needed along the single lane access road.

The holes shall be as listed below:

<u>D.H. No.</u>	<u>Depth</u>	<u>Approx. Elevation</u>
21-2	300	7300
21-3	300+	7340
21-4	300+	7360
21-5	300+	7380
21-6	300+	7400+
21-7	300	7420+
21-8	300	7340
21-9	300	7360
21-10	300	7400+
22-1	300	7240
22-2	300	7260
22-3	300	7280
22-4	300	7285
22-5	300	7290
22-6	300	7300

The holes are listed and shown on the accompany map. The drill holes will be either rotary drilled or cored. Hole diameter will be about $5\frac{1}{2}$ inches to 6 inches and will be drilled by truck mounted drills capable of drilling at least 1000 feet. (Small drill rigs available). Upon completion of the drilling, there will be no drill stem protruding from the ground. Elevations of each drill hole are approximate but will be determined more accurately upon drilling. All drill holes will be cemented from bottom to top with neat cement upon completion.

Access roads to Site No. 1 has been constructed over B.L.M. ground at the time of Site 21-1 was drilled. The access road has not been obliterated at this time and is still passable.

At Site No. 1 and No. 3, it is estimated that no more than an area 75 feet to 100 feet in depth will be needed to expose the seams. Coal seams appear to be fairly close to the surface and the exact location has been pinpointed.

PINE CANYON QUAD SHEET
EUREKA ENERGY CO.

3A

SECTION 16
FREE GROUND

8478

16

ACCESS ROAD
FOR DRILL HOLES

21-5
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21-100

SITE NO. 2

EXISTING ROAD

21

ACCESS ROAD FOR
SHALLOW DRILL HOLES

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SITE NO. 1

EXISTING ROAD

22

SITE NO. 3

23-1
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PROSPECTS
EXISTING ROAD
CREEK

T. 135.
R. 12 E.
S. 4 B. & M.

July 3, 1979
A. S. Sparks

EXCAVATION PITS
DRILL HOLES

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Site No. 2 will be located in the area known as Fish Creek. Access roads have been existing in this area for many years and lead to Fee ground in Section 16, T.13S., R.12E., S.L.B. & M.

Tentative plans are to keep as much of the excavation within the Fee ground limits, however, it may be necessary to go outside of the boundary and excavate into the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 21, T.13S., R.12E., S.L.B. & M. This site is to expose the coal seams in the area also. Namely the Rock Canyon and the Gilson seams. Only thickness determinations will be made. Due to extensive burning, as evidenced by the outcrop, more extensive excavation may be required to completely uncover the seams. A width of 12 to 15 feet and a depth of 100 plus may be needed to uncover the seams. It may also require access roads to be built along the Fee ground to the site in Section 21 if the excavation proceeds that far. Sites and access roads are shown on the accompanying map.

Site No. 2 will require more excavation than at Site No. 1 and No. 3 due to the steep slopes and excess sluffage. In any event excavation at all sites will be kept to a minimum to avoid any more damage than is necessary. All sites will be prepared with the aid of a dozer and backhoe.

The access road into Canyon "X", Site No. 3, was constructed several years ago; therefore, no new access construction will be needed, only some work to make the road passable.

The geology in the location of all three sites consists basically of sandstones, shales, and limestones. All formations are essentially horizontal but may have a gentle dip to the north of about 6° to 10° .

All exploration will be done in the Black Hawk group, upper cretaceous formation.

Vegetation in this area consists primarily of ponderosa pine tree, juniper tree, cedar tree, sagebrush and oak brush.

No perennial streams exist at any site, therefore no fish habitate exists. Ground water does not appear to be existent in the area of exploration, therefore no contamination will be done. No springs were found in the area.

EXPLORATION PLAN

Mr. John C. Osmond, of Eureka Energy Company will be in complete charge of this program. His address is 215 Market Street, San Francisco, CA 94106. (415-781-4211)

Site No. 1 is located in Carbula Canyon in Section 21, T13S., R.12E., S.L.B. & M., Federal. Lease No. U-092147. Access roads have already been constructed to the site as mentioned before.

Site No. 2 is located in the Fish Creek area primarily on Fee ground, but may extend into the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 21, T.13S., R.12E., S.L.B. & M. This site will require some road construction into site area.

Site No. 3 is locate in Canyon "X" and is located in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$, Section 22, T13S., R.12E., S.L. B. & M.

There are no flowing streams in the area, only some spring

run-off is still flowing, but should dry up by late summer, as this is the pattern in this area.

Excavation pits will be about 12 to 15 wide and 50 to 100 feet in length, depending upon the amount of burn encountered. The pits will be 12 to 15 feet wide to provide adequate room for the equipment and to provide safety for men and equipment. Site No. 2 may require slightly more area for excavation due to the more burn visible in that area and the steep slopes. Exploration equipment shall consist of small trucks, backhoes, dozers, truck mounted drill rigs, road graders and other small equipment needed to complete the exploration work.

Upon completion of the excavation and after all measurements are completed all pits will be covered. All coal seams found will be covered over with excavated soil.

In excavating for the coal seams, a minimum of disturbance will be done. All top soil will be pushed aside for later restoration work. Every effort will be taken to not disturb the wildlife in the area. The wildlife consists of deer, mountain lion, rabbits, and many other small rodents. It is not anticipated that this work will greatly effect the wildlife, as these access roads have been in existence for some time at all sites and have been used by the ranchers, sportsman, hunters and sightseers. The prime use of the land is for ranging cattle. However, due to this ruggedness of the area, not many cattle are grazed in this area, but strays do find their way into these areas.

During the construction phase of the sites every precaution will be taken to prevent fires. The area is very dry at this time of the year and every precaution will be taken. Contractors doing the work will be required to have fire extinguishers available and on hand. No open flames will be permitted at the sites.

Soil erosion will be kept at a minimum. Proper drainage will be provided. All access roads will be located in a manner that will protect the public as well as the worker. All hazardous conditions will be kept to a minimum in order to safeguard life and property. Law enforcement agencies will be contacted if any conditions occur that will require their assistance. Proper medical attention and facilities are available in Price, Utah only about 25 miles away and within distance of mobile radio.

RECLAMATION SCHEDULE

At the completion of the excavation all coal seams that have been uncovered will be covered and all disturbed areas will be cleaned and reclaimed as neat as possible. All disturbed areas will be contoured to the surrounding terrain. Top soil will be pushed and spread over the disturbed areas in preparation for the reseeded.

All garbage and trash will be removed and disposed of properly. All access roads that will not be used in the future will be obliterated as stated above. Access roads to shallow drill holes will also be reclaimed as above, then contouring all disturbed area to the adjacent area in preparation for reseeded.

All disturbed areas will be seeded by using the following seeding mixture:

<u>GRASSES</u>			<u>RATE LB/AC</u>
Oryzopsis	Humenoides	Indian Rice Grass	2
Agripyren	Desertorum	Crested Wheat	2
Sperabules	Crystandrus	Sand Drop Seed	2
 <u>FORBS</u>			
Sphaerolcea	ambigua	Globe Mallow	<u>2</u>
Total			8 lb/ac

Seeding will be done between September and April first in order to take advantage of winter moisture. Seeding will be done by one of several methods:

1. Seeding will be done by drilling with proper equipment capable of drilling the seed and leaving a furrow at least $1\frac{1}{2}$ inches deep.
2. Seeding maybe done by hand by broadcasting by hand, with the aid of a cyclone seeder or a hydro-seeder. The area will then be raked or harrowed to cover the seed.

TIME TABLE OF OPERATIONS

The anticipated time for this project will be as follows:

1. Site preparation at Site No. 1, No. 2 and No. 3, between July to October of 1979.
2. Measurements taken as soon as coal seams are exposed and excavation is complete.

3. Restoration work will begin as soon as all measurement is complete.
4. Seeding operations to begin shortly after September and should be complete by December.

Respectfully submitted,


Albert J. Spensko