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Docket 40-8745
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JUN 30 1981

WMUR:TLJ
Docket No. 40-8745
SUA-1396, Amendment No. 1

Ogle Petroleum, Inc.
ATTN: Mr. Glenn Catchpole
150 North Nichols Avenue
Casper, Wyoming 82601

Gentlemen:



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Pursuant to Title 10, Code of Federal Regulations, Part 40, Source Material License No. SUA-1396 is hereby amended by modification of License Condition No. 65 to read as follows:

65. The licensee shall comply with the following requirements regarding construction and operation of the evaporation ponds:
- a. The site of the ponds shall be that site investigated in the report entitled, "Geotechnical Investigation, Reservoirs for In Situ Uranium Mining, Bison Basin Mine" by Howard-Donley Associates, Inc. dated May 12, 1981.
 - b. The pond embankments shall have a maximum height of 17 feet, exterior and interior slopes of 2H:1V and 3H:1V respectively, and a crest width of 10 feet. The embankment fill shall consist of silty sand materials excavated from the site and compacted to 90 percent of the maximum dry density and placed within ± 3 percent of the optimum moisture content as determined by ASTM D1557. Prior to placing the material forming the layer in which the leak detection pipes are placed, the subgrade shall be compacted, tested for permeability, and graded to a surface tolerance of less than or equal to 0.1 feet over a 10-foot straightedge. If necessary, clay materials shall be added to the subgrade to achieve a base that is at least two orders of magnitude less permeable than the leak detection layer.

The licensee shall implement the QA program described in the licensee's June 30, 1981 submittal. This program shall be implemented for construction and testing of embankments, subgrade and leak detection layer with regard to excavation, fill placement, grading, compaction, and moisture control.

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- c. The leak detection system for each pond shall consist of a 4-inch diameter PVC piping network placed in a bedding layer of sand and/or gravel directly beneath the pond liner. An inspection tube connected to the system shall extend up the southeast slope of each pond. Prior to liner placement, the leak detection system shall be tested as described in the licensee's June 30, 1981 submittal.
- d. The ponds shall be lined with a 30 mil reinforced Hypalon liner anchored in trenches at the crest of the impoundments. The licensee shall install and test the liner and liner seams as documented in a letter dated May 13, 1981, from Glenn Catchpole, Ogle Petroleum, Inc. co Ross Scarano, NRC, and in the attached "Hypalon Installation Instructions", Watersaver Company, Inc.
- e. The licensee shall maintain at least two feet of freeboard between the embankment crest and the pond level.
- f. The licensee shall at all times maintain sufficient reserve capacity in the evaporation pond system to enable the transfer of the contents of a pond to other ponds in the event of a leak.
- g. A fence that prevents the intrusion of game animals into the evaporation pond areas shall be maintained.
- h. Within 6 months after completion of the ponds, the licensee shall submit a report detailing the construction methods, construction controls, quality assurance programs, and testing methods that were actually utilized in the construction of the ponds and the installation of the leak detection system and liner. This report shall also provide test results obtained during construction and as-built drawings showing details of construction of the various components of the pond.
- i. The licensee shall notify Region IV, USNRC, Office of Inspection and Enforcement, Arlington, Texas and the Uranium Recovery Licensing Branch, USNRC, Washington, D.C., at least three weeks prior to the completion of the ponds to provide adequate time for on-site inspections by the NRC.

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All other conditions of this license shall remain the same.

The conditions detailed above were discussed between Mr. Glenn Catchpole and Mr. Ted Johnson by telephone and at meetings held in Silver Spring, Md. on June 19, 1981 and June 30, 1981.

The effect of this amendment is to approve the engineering, design, construction plans, embankment details, leak detection system, and pond liner as formerly required by License Condition No. 65. Construction of the evaporation ponds may begin.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by:
R. A. Scarano
Ross A. Scarano, Chief
Uranium Recovery Licensing Branch
Division of Waste Management

Case Closed (04008745A05E)

6/30/81

Revision No. 1

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SURNAME ▶	TLJohnson:mb	DMGillen	<i>[Signature]</i>	RAScarano		
DATE ▶	6/30/81	6/30/81	6/30/81	6/30/81		