

Form OR-9-1988

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY, CONSERVATION DIVISION

Form Approved  
Budget Bureau No. \_\_\_\_\_

**CONFIDENTIAL SIGNATURE NOTICE**

The U.S. Geological Survey requests this form or other Supervisor approved form to be prepared and filed in triplicate with requisite attachments with the Supervisor. The Supervisor must approve this permit prior to any lease operations.

1a. WELL TYPE: PRODUCTION ( ) INJECTION ( ) HEAT EXCHANGE ( ) OBSERVATION (X) OTHER ( )		4. LEASE SERIAL NO. OR-20492	
Observation Well		5. SURFACE MANAGER: BLM ( ) FS Forest Service (X) Other ( )	
1b. WELL STATUS: Suspended		6. WELL AGREEMENT NAME N/A	
7. NAME OF LESSEE/OPERATOR Oxbow Power Corporation		7a. WELL NO. 77-24	8. PERMIT NO.
8. ADDRESS OF LESSEE/OPERATOR 200 S. Virginia St., #450 Reno, NV 89509		9. FIELD OR AREA Santiam Pass	
9. LOCATION OF WELL OR FACILITY NW 1/4 SE 1/4 Sec. 4 T13S R7 1/2 E		10. SEC. T., R., S. & N. Sec 24 T13S R7 1/2 E	
14. TYPE OF WORK		11. COUNTY Jefferson	
GEOTECHNICAL WORK ( ) SITE AND ROAD CONSTRUCTION ( ) CONSTRUCT NEW PRODUCTION FACILITIES ( ) ALTER EXISTING PRODUCTION FACILITIES ( )		12. STATE Oregon	
CONVERT TO INJECTION ( ) FRACTURE TEST ( ) SHOOT OR ACIDIZE ( ) REPAIR WELL ( )		FULL OR ALTER CASING ( ) MULTIPLE COMPLETE ( ) ABANDON ( ) CHANGE PLANS ( ) OTHER (X)	

15. DESCRIBE PROPOSED OPERATIONS (use this space for well activities only - see instructions for current well conditions on reverse)

Drilling on well 77-24 has been suspended for the winter. The hole was drilled with 13" bit to 36", 8 3/4" bit to 390', and 7 7/8" bit to 462'. The conductor pipe was 36' of 31.20 lb/ft 10 3/4" O.D. casing. It was cemented with 15 sacks of lean cement. A top job with one sack was performed the next day. The surface casing was 462' of 9.5 lb/ft 4" I.D. schedule 40 pipe with threaded couplings. It was cemented with 7 yards of lean cement with 2 sacks of calcium chloride. A 15 sack top job was performed later the same day. A steel plate was welded on the top of the 4" casing and the deep part (North end) of the mud pit was covered with plywood. It is anticipated drilling will resume with a core rig in late June or early July 1990.

16. DESCRIBE PROPOSED OPERATIONS (use this space for all activities other than well work)

17. I hereby certify that the foregoing is true and correct (Use reverse side if needed)

SIGNED Dick Benoit TITLE Resource Manager DATE 11/14/89

(This space for Federal use)

APPROVED BY Muriel Christod TITLE Petroleum Engineer, DOGAMI DATE 12-1-89

CONDITIONS OF APPROVAL, IF ANY:  
Suspended status approved through August 31, 1990.

This permit is required by law (16 U.S.C. 1623); regulations: 30 CFR 270.34, 30 CFR 270.35, 30 CFR 270.45, 30 CFR 270.71-1, 30 CFR 270.72; Federal Geothermal Lease Terms and stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.