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Docket 40-8728

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Docket file

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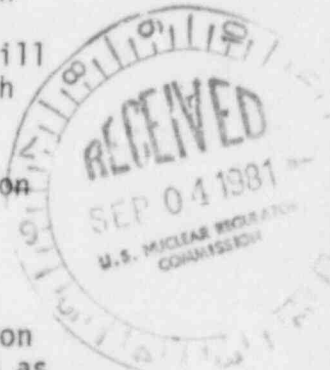
WMUR:40-8728
SUA-1373, Amendment No. 4

Teton Exploration Drilling Co., Inc.
ATTN: Richard Appel
Coordinator, Permits and Licensing
P.O. Drawer A-1
Casper, Wyoming 82602

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 40, Source
Material License No. SUA-1373 is hereby amended revising Condition
No. 17 to read as follows:

PDR
I&E Hq(2)
SHO
AEOD
WMUR r/f
WMUR c/f
NMSS r/f
WM r/f
Mill file
FWRoss
JJLinehan
DMartin
HPettengill
MAuerbach
BBrooks
ACabell
JRobertson
DWeiss
BFisher
RAScarano
REBrowning
JBMartin



17. Upper Control Limit (UCL) criteria to be applied when action must be taken to control excursions during mining shall be as shown in the table attached. When two UCL values are exceeded, the licensee shall take another sample within twenty-four (24) hours and analyze the water. An excursion is considered confirmed if the condition of the second sample behaves similarly (UCL values are exceeded). Corrective action to mitigate the situation shall be initiated by the licensee when an excursion is detected. Aside from corrective actions, monitoring shall be intensified; sampling frequency and analysis for UCL parameters of excursion status wells shall be at least once every four (4) days as long as those wells are at excursion status. Written notification shall be provided to the NRC, Division of Waste Management, within thirty (30) days of confirming an excursion, describing the condition, the corrective action taken, and the results obtained. If corrective action is ongoing at the time the report is filed, a final report shall be submitted describing the end results of the corrective actions. Written progress reports concerning the excursion will be sent to the NRC monthly until the monitor wells are no longer in excursion status. If one parameter from any monitor well exceeds the UCL value in two successive biweekly samples, the license shall investigate the cause. Samples shall be taken from affected well or wells a minimum once per week and analyzed for the excursion parameters. Sampling at least once per week shall continue until the cause of the parameter increase above the UCL value is determined. The investigation shall be documented and submitted to the NRC in the quarterly report described in Condition 35.

OFFICE	WMUR	WMUR	WMUR	WMUR			
SURNAME	FWRoss	JJLinehan	RAScarano	BFisher			
DATE	8/13/81	8/13/81	8/17/81	8/31/81			
8109140062	810813						
PDR ADDCK	04008728						
C	PDR						

OFFICIAL RECORD COPY

USC 1981-335-963

AUG 13 1981

All other conditions of this license shall remain the same.

The modification of Condition 17 was discussed in a telephone conversation between your Mr. Appel and Mr. F.W. Ross of the NRC staff.

The effect of this amendment is to place UCL's on uranium calculated by standard statistical methods acceptable to the NRC.

FOR THE NUCLEAR REGULATORY COMMISSION

Ross A. Scarano, Chief
Uranium Recovery Licensing Branch
Division of Waste Management

Enclosure:
Upper Control Limits for
Excursion Indicators

OFFICE							
SURNAME							
DATE							

UPPER CONTROL LIMITS (UCL) FOR
EXCURSION INDICATORS

<u>Well</u>	<u>Conductivity</u> <u>mhos/cm</u>	<u>Cl⁻</u> <u>(mg/l)</u>	<u>SO₄⁼</u> <u>(mg /l)</u>	<u>* U</u> <u>(mg/l)</u>	<u>Na⁺</u> <u>(mg/l)</u>	<u>Alkalinity</u> <u>(mg/l CaCO₃)</u>
<u>IDAHO AQUIFER</u>						
PN5-L570	1,135	12	314	.096	47	331
PN5-L304	1,141	12	523	.096	62	273
<u>N AQUIFER</u>						
PN5-L309	1,197	13	602	.42	57	197
PN5-L313	865	8	307	.108	48	201
PN5-L319	1,095	22	459	.072	50	172
PN5-L320	899	15	271	.084	52	225
PN5-LMN1	887	22	462	.12	43	187
<u>M AQUIFER</u>						
PN5-L305	636	32	344	.072	51	496
PN5-L575	962	24	327	.096	46	209
PN5-L576	835	19	153	.096	37	231
PN5-LMM1	727	10	140	.12	28	250
PN5-LMM2	585	12	105	.12	31	181
<u>BASAL AQUIFER</u>						
PN5-L314	591	8.7	158	.084	58	203

* UCL Uranium = $\bar{x} + 20\%$, calculated by the NRC