

Tiffini  
I will help you with  
this

ask Joe

see e-mail Sharon

What needs to go in the plan?

---

Joe-

what should we do  
with this?

Tiffini

Sharon will  
contract - Johnny 3/9/99  
to verify  
what + where info  
is to be filed into  
plan. JH 3/9

---

# PERMIT TRACKING FORM

**#1**

- Permit Amendment(INS)  
  Exploration Permit(INS)  
  N.O.V. (INS)  
  D.O.  
  Permit Transfer  
  Incidental Boundary Change  
 Permit Midterm (MT)  
  Permit Renewal (PR)  
  New Permit  
  Significant Revision (SR)  
  Bond Release (BR)

DATE RECEIVED	11/17/97	By: pgl	(Initial)	PERMIT NUMBER	ACT/007/038
Title of Proposal: Abatement plans for N-97-46-05-01				PERMIT CHANGE #	97F-1
Description: second round				PERMITTEE	C/PRUS PLATON
# Copies Required	5	# Copies Received	3	MINE NAME	WILLOW CROCK

PERMIT CHANGE APPLICATION SENT TO SLC      DATE:      LETTER TO PERMITTEE:

<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION OR INITIAL COMPLETENESS REVIEW	DATE DUE	DATE DONE	LETTER TO PERMITTEE:
<input type="checkbox"/> Notice of Affidavit of Publication. (If change is a Significant Revision, New Permit or Permit Transfer)	DATE DUE	DATE DONE	PUBLIC COMMENT RECEIVED:

PRICE REVIEW TRACKING	REVIEW		SLC REVIEW TRACKING	REVIEW	
	DUE	DONE		DUE	DONE
<input checked="" type="checkbox"/> Lead <input checked="" type="checkbox"/> Generalist      phh	12/01/97		<input type="checkbox"/> Lead		
<input type="checkbox"/> Administrative			<input type="checkbox"/> Administrative		
<input type="checkbox"/> Land Use/AQ			<input type="checkbox"/> Land Use/AQ		
<input type="checkbox"/> Biology			<input type="checkbox"/> Biology		
<input type="checkbox"/> Engineering			<input type="checkbox"/> Engineering		
<input type="checkbox"/> Geology			<input type="checkbox"/> Geology		
<input type="checkbox"/> Soils			<input type="checkbox"/> Soils		
<input type="checkbox"/> Hydrology	12/01/97		<input checked="" type="checkbox"/> Hydrology      skf	12/01/97	

TA Review Due	Date:	Permittee Response Due	Date:	DIVISION DECISION LETTER
		<input type="checkbox"/> Stipulation <input type="checkbox"/> Condition <input type="checkbox"/> No Requirements		<input type="checkbox"/> APPROVE <input type="checkbox"/> DENY
TA Review Done	Date:	Response Received	Date:	Date:

COORDINATED REVIEWS	PHONE CONTACT	SENT	DUE	RECEIVED	ADDITIONAL TRACKING	Date:
<input type="checkbox"/> OSMRE					PUBLIC HEARING	
<input type="checkbox"/> US Forest Service					LETTER FROM COMPLIANCE SUPER.	
<input type="checkbox"/> BLM					AVS COMPLETED	
<input type="checkbox"/> US FWS					APPROVAL EFFECTIVE DATE	12-23-97
<input type="checkbox"/> US NPS					APPROVED COPY TO FILE	
<input type="checkbox"/> UT SHPO					APPROVED COPY TO PERMITTEE	
<input type="checkbox"/> UT DEQ					APPROVED COPY TO PFO/SLC	
<input type="checkbox"/> UT Water Rights					APPROVED COPY TO AGENCIES	
<input type="checkbox"/> UT Wildlife Resources					CHIA MODIFIED	
<input type="checkbox"/> UT SITLA					UPDATE MASTER TA    DONE/NEEDED	

*one copy provided to Sharon*

PRICE FIELD OFFICE COMMENTS:

SLC OFFICE COMMENTS:

# PERMIT TRACKING FORM

- Permit Amendment(INS)  
  Exploration Permit(INS)  
  N.O.V. (INS)  
  D.O.  
  Permit Transfer  
  Incidental Boundary Change  
 Permit Midterm (MT)  
  Permit Renewal (PR)  
  New Permit  
  Significant Revision (SR)  
  Bond Release (BR)

Date Received <b>9/17/97</b>	By: <b>tat</b> (Initial)	PERMIT NUMBER	ACT/007/038
Title of Proposal: <b>Abatement Plans N-97-46-5-1</b>		PERMIT CHANGE #	97F
Description:		PERMITTEE	CYPRUS PLATEAU MINING CORP.
# Copies Required <b>5</b>	# Copies Received <b>5</b>	MINE NAME	WILLOWCREEK/BLACKHAWK

PERMIT CHANGE APPLICATION SENT TO SLC      DATE: \_\_\_\_\_      LETTER TO PERMITTEE: \_\_\_\_\_

<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION OR INITIAL COMPLETENESS REVIEW	DATE DUE	DATE DONE	LETTER TO PERMITTEE:
--	----------	-----------	----------------------

<input type="checkbox"/> Notice of Affidavit of Publication. (If change is a Significant Revision, New Permit or Permit Transfer)	DATE DUE:	DATE DONE	PUBLIC COMMENT RECEIVED:
---	-----------	-----------	--------------------------

PFO REVIEW TRACKING	1ST ROUND		2ND ROUND		SLC REVIEW TRACKING	1ST ROUND		2ND ROUND	
	DUE	DONE	DUE	DONE		DUE	DONE	DUE	DONE
<input type="checkbox"/> Lead <input type="checkbox"/> Generalist _____					<input type="checkbox"/> Lead _____				
<input type="checkbox"/> Administrative _____					<input type="checkbox"/> Administrative _____				
<input type="checkbox"/> Land Use/AQ _____					<input type="checkbox"/> Land Use/AQ _____				
<input type="checkbox"/> Biology _____					<input type="checkbox"/> Biology _____				
<input type="checkbox"/> Engineering _____					<input type="checkbox"/> Engineering _____				
<input type="checkbox"/> Geology _____					<input type="checkbox"/> Geology <i>AND SIMS WITH - 10/10</i>				
<input type="checkbox"/> Soils _____					<input type="checkbox"/> Soils _____				
<input type="checkbox"/> Hydrology _____					<input type="checkbox"/> Hydrology <i>SHARON FOLLEY - 10/10</i>				

TA Review Due	Date:	Permittee Response Due <input type="checkbox"/>	Date:	DIVISION DECISION LETTER
		Stipulation <input type="checkbox"/> Condition <input type="checkbox"/>		<input type="checkbox"/> APPROVE <input type="checkbox"/> DENY
		No Requirements <input type="checkbox"/>		
TA Review Done	Date:	Response Received	Date:	Date:

COORDINATED REVIEWS	PH CONT	1ST ROUND		2ND ROUND		RECEIVED	ADDITIONAL TRACKING	Date:
		SENT	DUE	SENT	DUE			
<input type="checkbox"/> OSM (C)							PUBLIC HEARING	
<input type="checkbox"/> USFS							LETTER FROM COMPLIANCE SUPER.	
<input type="checkbox"/> BLM (C)							AVS COMPLETED	
<input type="checkbox"/> USFWS (L, NA)							APPROVAL EFFECTIVE DATE	
<input type="checkbox"/> USNPS							APPROVED COPY TO FILE	
<input type="checkbox"/> UTSHPO (L, NA)							APPROVED COPY TO PERMITTEE	
<input type="checkbox"/> UTDEQ (L)							APPROVED COPY TO PFO/SLC	
<input type="checkbox"/> UT Water Rgt (L)							APPROVED COPY TO AGENCIES	
<input type="checkbox"/> UTDWR (L)							CHIA MODIFIED	
<input type="checkbox"/> UTSITLA (L)							UPDATE MASTER TA DONE/NEEDED	

COMMENTS:



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

December 23, 1997

Johnny Pappas, Senior Environmental Engineer  
Cyprus Plateau Mining Corp.  
P.O. Drawer PMC  
Price, Utah 84501

Re: N97-46-5-1 Abatement, Cyprus Plateau Mining, Willow Creek Mine, ACT/007/038-97F,  
File #2, Carbon County, Utah

Dear Mr. Pappas:

The referenced amendment is hereby approved effective December 23, 1997. A stamped approved incorporated copy of your submittal will be mailed to you from our Price Field Office.

If you have any questions please call.

Sincerely,

A handwritten signature in cursive script that reads "Joseph C. Helfrich".

Joseph C. Helfrich  
Permit Supervisor

tat

cc: Ranvir Singh, OSM  
Richard Manus, BLM  
Mark Page, Water Rights, w/o  
Dave Ariotti, DEQ, w/o  
Bill Bates, DWR, w/o  
David T. Terry, SITLA, w/o  
Price Field Office

O:\007038.WIL\FINAL\APPROVAL.97F



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

December 19, 1997

TO: File

THRU: Joe Helfrich, Permit Supervisor *JH*

FROM: Sharon Falvey, Senior Reclamation Hydrologist *Srf*

RE: N97-46-5-1 Abatement, Cyprus Plateau Mining, Willow Creek Mine,  
ACT/007/038-97F, Folder #2, Carbon County, Utah

**SUMMARY:**

This amendment is intended to meet the abatement requirements on violation N97-46-5-1 issued on July 4, 1997. This NOV was issued to update information related to the Probable Hydrologic Consequences for the water encountered during mining operations in July 1997. These activities were not approved operations and the groundwater occurrence was not identified in the earlier reconnaissance investigations used to develop the PHC.

Information was submitted to describe the chronology of events following the interception of water into the mine workings. The permittee presented this information as an addendum to the PHC and will have additional updates to appropriate sections of the PHC when the reconnaissance information is gathered for their plan to de-watering the "K" and "C" seams. This review includes information submitted on December 17th, November 17, and September 17, 1997.

**ANALYSES:**

**TECHNICAL ANALYSIS:**  
***ENVIRONMENTAL RESOURCE INFORMATION***

**HYDROLOGIC RESOURCE INFORMATION**  
Regulatory Reference: 30 CFR Sec. 701.5, 784.14; R645-100-200, -301-724.

**Probable Hydrologic Consequences Determination**

**Analysis:**

The following paragraph summarizes the information submitted:

Flows encountered during the event were estimated to be approximately 1,200 gpm and the water was estimated to have a head of 200 ft. The source of the inflow was determined to originate from an abandoned surface well MC-090(found on the geology map), which allowed water to move from the lower seam into the mined area. The permittee drilled two injection wells into the "K" seam outside of the portals and plugged the abandoned hole. These wells will not be used further without prior notification and approval by the regulatory agency. ( A request for further use was not presented in the amendment).

From the information presented, it appears that Willow Creek may be the primary source of water, which is recharging through the alluvium and substrata into previously mined underground workings that pass under the creek. Additional information has been gathered to investigate the gain/loss relationships of Willow Creek between Skinny Canyon and the Confluence with the Price River. The details of this proposed monitoring scheme were not presented but, are expected to be submitted in the PHC that will be updated with the proposed mine dewatering activities.

**Findings:**

The permittee provided information which describes the events leading to and following the issuance of Notice of Violation N97-46-5-1. From the information provided the Division determined that the responsible parties acted in a manner that minimized the potential for hydrologic impact outside the permit area.

**RECOMMENDATION:**

The submitted information related to the activities during the July 1997 encounter of ground water at the Willow Creek Mine should be approved and incorporated into the Willow Creek MRP. The December submittal provided only one copy of the revised text and figures.

Page 3  
ACT/007/038-97F  
December 19, 1997

An appropriate number of the complete submittal must be provided by the applicant with the appropriate C-1 and C-2 forms. It is recommended the original copies of data and event chronology be compiled and a copy presented to Nina for incorporation into the water quality data base and data filing system.

tat  
cc: Price Field Office  
O:\007038.WILA\FINAL\N9746-5B.WPD



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

October 17, 1997

Ben Grimes, Sr. Staff Project Engineer  
Cyprus Plateau Mining  
P.O. Drawer PMC  
Price, Utah 84501

Re: N-97-46-5-1 Abatement, Cyprus Plateau Mining Corp., Willow Creek Mine,  
ACT/007/038-97F, File #2, Carbon County, Utah

Dear Mr. Grimes:

The attached technical memo prepared by Sharon Falvey, Senior Reclamation Specialist for the Division, outlines a number of items that need to be addressed prior to termination of the referenced notice of violation. These items were discussed in general with you at our meeting on Tuesday, October 14, additionally the memo has been faxed to your office.

Pete Hess has extended the notice of violation to October 31, 1997 to allow for your response to these items. Your timeliness is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Joseph C. Helfrich".

Joseph C. Helfrich  
Permit Supervisor

tat

cc: Price Field Office

O:\007038.WILA\FINAL\DEFICIEN.97F



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

October 16, 1997

TO: File

THRU: Joe Helfrich, Permit Supervisor 

FROM: Sharon Falvey, Senior Reclamation Specialist, Hydrologist. *SXF*

RE: N97-46-5-1 Abatement, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-97E, Folder #2, Carbon County, Utah

**SUMMARY:**

This amendment is intended to meet the abatement requirements for violation N97-46-5-1, issued on July 4, 1997. This NOV was issued to update information related to the Probable Hydrologic Consequences for the water encountered during mining operations in July 1997. These activities were not approved operations and, the groundwater occurrence was not identified in the earlier reconnaissance investigations used to develop the PHC.

The permittee now realizes that the groundwater will need to be discharged from the lower formation in order to continue mining. Although these two issues are interrelated, the information which describes the impacts to date and the information from the occurrence of the initial water encounter are separate issues. The information gathered relating to the July, 1997 water encountered should be incorporated into the PHC and does not need to be intertwined with the proposed discharge procedures. The applicant may incorporate this information as an addendum to the PHC and then update appropriate sections of the PHC when the reconnaissance information is gathered for de-watering the "K" and "C" seams.

**ANALYSES:**

**TECHNICAL ANALYSIS:**

***ENVIRONMENTAL RESOURCE INFORMATION***

**HYDROLOGIC RESOURCE INFORMATION**

Regulatory Reference: 30 CFR Sec. 701.5, 784.14; R645-100-200, -301-724.

### **Probable Hydrologic Consequences Determination**

#### **Analysis:**

The following paragraph summarizes the information presented in this amendment:

Flows encountered during the event were estimated to be approximately 1,200 gpm and the water was estimated to have a head of 200 ft. The source of the inflow was determined to originate from an abandoned surface well MC-090(found on the geology map), which allowed water to move from the lower seam into the mined area. The permittee drilled an injection well into the "K" seam outside of the portals and plugged the abandoned hole. This well will not be used further without prior notification and approval of the regulatory agency. ( A request for further use was not presented in the amendment). Additional information is currently being gathered to investigate the gain/loss relationships of Willow Creek between Skinny Canyon and the Confluence with the Price River but, the details of this proposed monitoring scheme were not presented.

The presented information has not adequately described the event and water encountered in July of 1997 and, does not allow the division the ability to make a findings on PHC of operations resulting from this event. The findings section outlines the information which should be presented and compiled as part of the amendment used to abate this NOV.

#### **Findings:**

The permittee must provide the following, to abate Notice of Violation N97-46-5-1, in accordance with;

**R645-301-731.** The PHC should include the following information:

1. Vertical or Dimensional Schematic of the mined area and aerial schematic compiled to include the following where applicable:
  - a. The approximate location and elevation of the encountered drill hole.
  - b. The locations and elevations of the coal seams showing dip.
  - c. The estimated potentiometric surface and relationship to coal seams.
  - d. The estimated potentiometric surface and elevation relationship to Willow Creek and the Price River in relation to; the intercept of the streams and the Blackhawk formation; the intercept of the stream and undermined sections of the stream; and the intercept of the stream and other significant features such as nearby

hydrogeologic controls, mined areas, etc..

2. Other information that should be included in the plan are:
  - a. A description of the monitoring injection well development; depth, diameter, etc.
  - b. Estimated volumes of water pumped; from the D seam into the K seam and pumped to the sedimentation pond.
  - c. A chronology of the event and emergency actions including; the date the water was encountered; the date pumping was initiated; the number of pumps used, their maximum pumping rate and time of use; the location of any in-mine sumping and pumping rates to the location; the date the borehole was sealed; the date the injection pumping was completed.
  - c. To gain an appreciation of the volume of water in the lower seam and possibly get a rough handle on the potential for future pumping activities in the mine, information including; the approximate water elevation in the mine prior to commencing pumping, the approximate elevation of the water in the injection well when the borehole was sealed; and the final elevation of water following pumping; should be presented in the plan This will aid in understanding the system and the PHC.
  - d. An assessment of the existing groundwater and surface water monitoring data gathered prior to and through the event period. Provide all additional data, lab sheets, and analyzation collected to date, that are related to describing this event (Refer to the July 4, 1997 memo to Peter Hess from Cyprus Plateau Mining Corporation).

**RECOMMENDATION:**

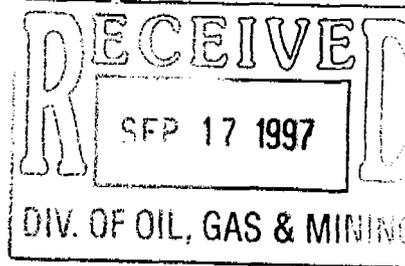
The permittee should submit information related to the activities conducted during the July 1997 to control the underground water encountered. Additional changes related to the PHC can be coordinated with the proposed dewatering of the "K" and "C" seams.

**HANSEN  
ALLEN  
& LUCE inc**

SALT LAKE AREA OFFICE  
6771 South 900 East  
Midvale, Utah 84047  
Phone: (801) 566-5599

ACT/007/0308 #2  
N-97-46 5-1  
Joe

Mr. Darron Haddock  
Permitting Supervisor  
1594 West North Temple - Suite 1210  
Salt Lake City, Utah 84114-5801



September 16, 1997

RE: Response to Violation N97-46-5-1.

Dear Darron:

Ben Grimes met with me yesterday to finalize the response to the above noted violation and ask that I send you the attached. Please find enclosed 5 copies of the response including an updated copy of Figure 1, Monitoring Station Location Map. Ben ask that I convey to you that he will send you a cover letter which can be incorporated with the enclosed submittal for your files.

Please call should you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "David E. Hansen", written over a horizontal line.

David E. Hansen, Ph.D., P.E.  
Project Manager

cc: 1 Copy to Ben Grimes  
1 Copy to file

# APPLICATION FOR PERMIT PROCESSING

Permit Change <input checked="" type="checkbox"/>	New Permit <input type="checkbox"/>	Renewal <input type="checkbox"/>	Transfer <input type="checkbox"/>	Exploration <input type="checkbox"/>	Bond Release <input type="checkbox"/>	Permit Number: ACT/007/038
---	-------------------------------------	----------------------------------	-----------------------------------	--------------------------------------	---------------------------------------	----------------------------

Title of Proposal: <b>RESPONSE TO VIOLATION N97-46-5-1</b>	Mine: WILLOWCREEK/BLACKHAWK
	Permittee: CYPRUS PLATEAU

Description, include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to an inspector.

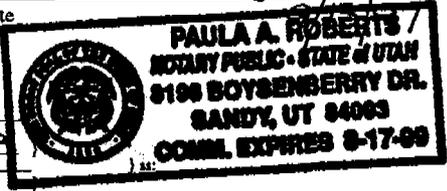
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO # _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV # N97-46-5-1
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations? Figure 1, Monitoring Station
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

Attach 5 complete copies of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings and obligations, herein (R645/301-123)

*Paula A. Roberts*  
Signed Name Position - Date  
Subscribed and sworn to before me this 15 day of Sept, 1997.

*Paula A. Roberts*  
Notary Public



My Commission Expires: Aug. 17, 1999  
Attest: STATE OF Utah COUNTY OF Utah

Received by Oil, Gas & Mining

**RECEIVED**

SEP 17 1997

DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER

