0030

Mine File

CYPRUS PLATEAU MINING CORPORATION
A Cyprus Amax Company

Willow Creek Mine
847 Northwest Highway 191
Helper, Utah 84526
(435) 472-0475
Fax: (435) 472-4780

August 24, 1998

RECEIVED
AUG 31 1998
DIVISION OF OIL
GAS & MINING PRICE UTAH

Pete Hess
Utah Division of Oil, Gas and Mining
451 East 400 North
CEU Box 169
Price, Utah 84501

RE: **Notice of Intent to Conduct Minor Coal Exploration, Exploration Permit Application, ACT/007/038-98C, File #2, Cyprus Plateau Mining Corporation, Willow Creek Mine, Carbon County, Utah**

Dear Mr. Hess:

Regarding the aforementioned, and approved by the Division effective June 8, 1998, Cyprus Plateau Mining Corporation (CPMC) has decided against drilling the approved water monitoring wells. After further investigation of the available information with respect to the overlying geology in the vicinity of the wells, it was determined by CPMC and its consultant that recharge into the K-seam from this area is less likely than originally thought.

Therefore, CPMC would like to remove this Notice of Intent (NOI) from further consideration. CPMC would like to thank you and the Division for the timely reviews and approvals of this and prior NOIs, and seek the Division's and your continued cooperation with CPMC in its challenging times.

If you have any questions, please do not hesitate to contact me at (435) 472-4741.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

File: WCENV 2.5.2.9
Chrono: JP980807.LTR

Post-it® Fax Note 7671	Date 9/4/98	# of pages ▶ 1
To Joe H./Tiffany	From Pete Hess	
Co./Dept. DOGM-SLC	Co. PFO-DOGM	
Phone # 538-5289	Phone # 637-5806	
Fax #	Fax # 637-8603	

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)

June 9, 1998

Johnny Pappas, Senior Environmental Engineer
AMAX Coal Company
P.O. Drawer PMC
Price, Utah 84501

Re: Minor Exploration, Cyprus Plateau Mining Company, Willow Creek Mine, ACT/007/038-98C, File #2, Carbon County, Utah

Dear Mr. Pappas:

The referenced amendment is hereby approved effective June 8, 1998. A stamped approved incorporated copy will be mailed to you from the Price Field Office for insertion in your mining and reclamation plan. Please send two additional copies of your exploration application to the Price Field Office for distribution.

If you have any questions please call.

Sincerely,

Joseph C. Helfrich
Permit Supervisor

INCORPORATED
EFFECTIVE:
98 JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

tat
Enclosure
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.98C

Form DOGM - C1 (Last Revised September 22, 1998) File Folder # 3

APPLICATION FOR PERMIT PROCESSING

Permit Change ☒	New Permit ☐	Renewal ☐	Transfer ☐	Exploration ☐	Bond Release ☐	Permit Number: ACT/007/038

Title of Proposal: Addition of methane degassification wells 98-25-5-DG, 98-30-8-DG, 98-30-9-DG, 99-30-10-DG & 99-30-11-DG.

Mine: WILLOW CREEK

Permittee: CYPRUS PLATEAU

Description, include reason for application and timing required to implement: Methane degassification wells are needed in the longwall gob to help prevent possible dangerous accumulations of methane, and impacts to safety or mine employees.

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.*

☒ Yes	☐ No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? 4.7 acres ☒ increase ☐ decrease.
☐ Yes	☒ No	2. Is the application submitted as a result of a Division Order? DO #
☐ Yes	☒ No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes	☒ No	4. Does application include operations in hydrologic basins other than as currently approved?
☐ Yes	☒ No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes	☒ No	6. Does the application require or include public notice/publication?
☐ Yes	☒ No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes	☒ No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes	☒ No	9. Is the application submitted as a result of a Violation? NOV #
☒ Yes	☐ No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: *MSHA concerns*
☐ Yes	☒ No	11. Does the application affect the surface landowner or change the post mining land use?
☒ Yes	☐ No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2? *No*)
☐ Yes	☒ No	13. Does the application require or include collection and reporting of any baseline information?
☐ Yes	☒ No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☒ Yes	☐ No	15. Does application require or include soil removal, storage or placement?
☒ Yes	☐ No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☒ Yes	☐ No	17. Does the application require or include construction, modification, or removal of surface facilities?
☒ Yes	☐ No	18. Does the application require or include water monitoring, sediment or drainage control measures?
☐ Yes	☒ No	19. Does the application require or include certified designs, maps, or calculations?
☐ Yes	☒ No	20. Does the application require or include subsidence control or monitoring? *No change to monitoring plan - same footprint.*
☒ Yes	☐ No	21. Have reclamation costs for bonding been provided for?
☐ Yes	☒ No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
☒ Yes	☐ No	23. Does the application affect permits issued by other agencies or permits issued to other entities? *BLM exploration*

☒ **Attach _3_ 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)

Johnny Pappas - Johnny Pappas - Sr. Env. Engineer - 9/23/98
Signed - Name - Position - Date

Subscribed and sworn to before me this 23 day of Sept, 19 98

Jackie D. Bogdin
Notary Public

My Commission Expires: 3-15 2001
Attest: STATE OF UT
COUNTY OF CARBON

Notary Public
JACKIE D. BOGDIN
104 Helper Drive
Helper, Utah 84526
My Commission Expires
March 15, 2001
State of Utah

RECEIVED
Received by Oil, Gas & Mining
SEP 23 1998
DIVISION OF OIL GAS & MINING

ASSIGNED TRACKING NUMBER 985

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)

June 5, 1998

To: File

Thru: Joe Helfrich, Permit Supervisor, Compliance

From: Peter Hess, Reclamation Specialist III PH

RE: Notice of Intent to Conduct Minor Coal Exploration, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-98C, Carbon County, Utah

SUMMARY:

Cyprus Willow Creek is proposing to drill three water monitoring wells within the UDOT right-of-way approximately 1.2 miles northeast of mile post 158 along State highway 191. These wells, designated as B-13, B-14, and B-15, will be used to obtain both geologic and hydrologic data; the hydrologic information obtained will be with regard to the in-ground water recharge rate of the K-seam workings. A mine inundation in July of 1997 caused by the interception of waters from the K-seam workings has resulted in a remedial action from the DOGM to revise the PHC. Cyprus is anticipating attempting to dewater the K-seam in order to prevent future difficulties in their underground mining operation. These wells will hopefully provide adequate information to assist in the design of this dewatering system.

This minor exploration permit was received by the DOGM on May 26, 1998.

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

TECHNICAL ANALYSIS:

MINOR COAL EXPLORATION

Regulatory Reference R645-200-122.

Analysis:

Less than 250 tons of coal will be removed with the drilling of the three wells. Borehole depths will be 50, 100 and 200 feet respectively. This submittal qualifies as a minor exploration permit.

Findings:

The information provided in this proposed exploration amendment is adequate to meet the requirements of the R645 regulations.

NOTICE OF INTENT TO CONDUCT MINOR COAL EXPLORATION

Regulatory Reference R645-201-200, 210-224.

Analysis:

ACT/007/038-98C adequately addresses the requirements of R645-201-210 to 224.

Findings:

The information provided in this proposed exploration amendment is adequate to meet the requirements of the R645 regulations.

METHOD OF EXPLORATION/RECLAMATION OF THE AREA

Regulatory Reference R645-201-225.

Analysis:

Exploration drilling will utilize air rotary methods. There will be no need to construct mud pits with this type of coring. Although the exploration will take place within the UDOT seventy-five foot from highway center right-of-way, the adjacent ground is fee, owned by Cyprus Western Coal Company by lease from Blackhawk Coal Company.

The permittee has applied for and received a permit from the UDOT, Price District, to construct an access road off of Highway 191 to the drill sites. As noted above, all holes and the access road are within the UDOT seventy-five foot right-of-way. Topsoil/vegetation removal will incorporate side casting methods. The boreholes themselves will be drilled on or in very close proximity to the roadway, minimizing disturbance.

Regulatory Reference R645-202-200. Performance Standards.

R645-202-231.

There are no known threatened or endangered species within the area of exploration.

R645-202-232.

The ancillary exploration road will have an approximate length of 375 feet and an approximate width of 15 feet. The permittee has adequately addressed the requirements of R645-202-232 with regard to ancillary roads. The road will be reclaimed as soon as practical. As all hole locations are less than 100 feet from State highway 191, access to them will be easy, even after the road is reclaimed. The boreholes are not expected to be used for long term water monitoring purposes.

R645-202-234.

The installation of major diversions will not be necessary for the installation of the exploration road. Any overland flows will be diverted using water bars, ditches, and/or culverts if the permittee finds it necessary to do so. There are no major drainages to be crossed. The permittee has met the requirements of R645-202-234.

R645-202-235.

Protection of surface water quality will be accomplished by utilizing berms, silt fences, straw bales and similar sediment control devices. The Willow Creek channel lies from 75 to 110 feet away; grasses and other native vegetation, plus the utilization of artificial sediment control will protect the quality of the undisturbed flow from any impacts caused by the access road and the borehole pads. These controls meet the requirements of R645-301-356.300, 356.400, 742.210, 742.211, and 301-532

R645-202-236.

This ancillary exploration road will not be surfaced; therefore, no acid or toxic forming substances will be utilized. The requirements of R645-202-236 have been met.

INCORPORATED
EFFECTIVE:
JUN 8 1998
98C
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

R645-202-240. Reclamation Standards.

R645-202-241.

The permittee is committed to reclaiming the three boreholes and the exploration road to approximate original contour. The gently sloping terrain in this area will not be a problem in returning the area to approximate original contour. The requirements of this performance standard have been adequately addressed.

R645-202-242., 242.100, 242.200.

The permittee is committed to revegetating the recontoured/reclaimed areas utilizing the permanent seed mix shown in Table 5.3-2 of the Willow Creek mining and reclamation plan. Seeding will be completed during the first acceptable seeding window following completion of the exploration program. The requirements of this performance standard have been met.

R645-202-243.

The permittee is committed to reclaiming the access road and the borehole areas. Grouting of the holes from bottom to collar will be achieved. The requirements of this performance standard have been met.

R645-202-244.

The permittee is committed to removing all machinery, debris, etc. from the area upon completion of the holes, and prior to reclamation. The requirements of 202-244. have been met.

Findings:

The information provided in this proposed exploration amendment is adequate to meet the requirements of the R645 regulations for exploration methods of operation.

BONDING

R645-301-800-880.

Analysis:

The current bond amount for the Cyprus Willow Creek Mine is $11,949,205.00. The DOGM does not require bond revisions for cumulative activities that do not increase the existing bond by more than five percent. The permittee has indicated that this proposed exploration activity will not add significantly to the amount already accrued against the bond to where it exceeds the five percent rule. The amount accrued against the existing bond as of 6/4/98 is $60,400.00. In order to exceed the five percent rule, $597,460.00 of cumulative increases will have to be proposed and approved. This submittal meets the requirements of the aforementioned regulation.

Findings:

The information provided in this proposed exploration amendment is adequate to meet the requirements of the R645 regulations with regard to the bonding of underground mining related activities.

RECOMMENDATION

Based on the aforementioned analysis and findings concerning ACT/007/038-98C, Minor Coal Exploration Application, I recommend that the proposed amendment be approved.

sd
enclosure

INCORPORATED
EFFECTIVE:
98C JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

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 5/26/98	hand delivered By: Johnny Happ	PERMIT NUMBER	ACT/007/038
Title of Proposal: NOI to Conduct Minor Coal Exp K-Seam		PERMIT CHANGE #	98C
Description:		PERMITTEE	Cyprus Plateau Mining Corp
# Copies Required 3	# Copies Received 3	MINE NAME	Willow Creek Mine
☐ PERMIT CHANGE APPLICATION SENT TO SLC		DATE:	LETTER TO PERMITTEE:

	DATE DUE	DATE DONE	LETTER TO PERMITTEE:
☐: 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION OR INITIAL COMPLETENESS REVIEW			
☐ 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 DUE	REVIEW DONE	SLC REVIEW TRACKING	REVIEW DUE	REVIEW DONE
☒ Lead ☒ Generalist PHH	6/17	6/5/98	☐ Lead		
☐ Administrative			☐ Administrative		
☐ Land Use/AQ			☐ Land Use/AQ		
☐ Biology			☐ Biology		
☒ Engineering PHH	6/17	6/5/98	☐ Engineering		
☐ Geology			☐ Geology		
☐ Soils			☐ Soils		
☐ Hydrology			☐ Hydrology		

TA Review Due	Date:	Permittee Response Due ☐ Stipulation ☐ Condition ☐ No Requirements	Date:	DIVISION DECISION LETTER ☐ APPROVE ☐ DENY
TA Review Done	Date:	Response Received	Date:	Date:

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

INCORPORATED
EFFECTIVE:
98C
JUN - 8 1998

PRICE FIELD OFFICE COMMENTS:
Review initiated 5/28/98
Recommended approval 6/5/98

SLC OFFICE COMMENTS:

UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

CYPRUS PLATEAU MINING CORPORATION
A Cyprus Amax Company

Willow Creek Mine
847 Northwest Highway 191
Helper, Utah 84526
(435) 472-0475
Fax: (435) 472-4780

May 21, 1998

RECEIVED
MAY 26 1998
DIVISION OF OIL
GAS & MINING PRICE UTAH

Pete Hess
Utah Division of Oil, Gas and Mining
451 East 400 North
CEU Box 169
Price, Utah 84501

980

RE: **Notice of Intent to Conduct Minor Coal Exploration, Exploration Permit Application, ACT/007/038, Cyprus Plateau Mining Corporation, Willow Creek Mine, Carbon County, Utah**

Dear Mr. Hess:

Cyprus Plateau Mining Corporation (CPMC) intends on drilling water monitoring wells B-13, B-14, and B-15 during mid to late June upon Division approval. The intent of these groundwater wells is to provide information necessary to determine groundwater occurrence, quality, and evaluate the source of groundwater recharge into the K-seam workings.

Access to these drill sites will mainly be along Highway 191 with a short section off of the existing highway to the proposed drill sites as shown on Figure 1. Therefore, surface disturbance will be greatly minimized. Encroachment upon Highway 191 right of way is being requested via a right of way encroachment permit from UDOT. Growth media encountered will be salvage and protected for redistributing during reclamation of the access road and drill sites.

Additionally, a request for monitoring well construction was applied for through the State Engineers' office located in Price. No well or road construction will commence until authorization is received from the State Engineers, UDOT, and DOGM.

The enclosed Notice of Intent to Conduct Minor Coal Exploration should address all regulatory requirements pursuant to its intended purpose, but should the Division need additional information or have any questions, please do not hesitate to contact me at (435) 472-4741.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

Enclosures

File: WCENV 2.5.2.9
Chrono: JP980510.LTR

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

Form DOGM - CI (Last Revised May 21, 1998) File Folder # 3

APPLICATION FOR PERMIT PROCESSING

Permit Change ☐	New Permit ☐	Renewal ☐	Transfer ☐	Exploration ☒	Bond Release ☐	Permit Number: ACT/007/038

Title of Proposal: Exploration Permit Application ACT/007/038 to allow drilling of surface water monitoring wells B-13, B-14, and B-15

Mine: Willow Creek Mine

Permittee: Cyprus Plateau Mining Corp.

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

To provide information necessary to evaluate groundwater occurrence, quality , and recharge into K-seam workings

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 your reclamation specialist.*

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

☒ Attach 5 complete copies of the application.

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

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)

Signed - Name - Position - Date: Johnny Rogers - Sr. Env. Eng. 5/26/98

Subscribed and sworn to before me this 26 day of May, 19 98.

Notary Public: Jackie D. Boggin

My Commission Expires: 3-15-2001

Attest: STATE OF UT COUNTY OF CARBON

Notary Public
JACKIE D. BOGGIN
106 Helper Drive
Helper, Utah 84526
My Commission Expires
March 15, 2001
State of Utah

RECEIVED
Received by Oil, Gas & Mining
MAY 26 1998
DIVISION OF OIL GAS & MINING PRICE, UTAH

ASSIGNED TRACKING NUMBER 98C

Form DOGM - C2 (Last Revised 6/93) File Folder #

Application for Permit Processing
Detailed Schedule of Changes to the MRP

Title of Application: Exploration Permit Application ACT/007/038 to allow drilling of surface water monitoring wells B-13, B-14, and B-15	Permit Number: ACT/007/038
	Mine: Willow Creek Mine
	Permittee: Cyprus Plateau Mining Corp.

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☒ ADD	☐ REPLACE	☐ REMOVE	New Notice of Intent Application
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

NOTICE OF INTENT TO CONDUCT MINOR COAL EXPLORATION
Willow Creek Mine

Holes B-13, B-14, and B-15

Cyprus Plateau Mining Corporation

May 22, 1998

INCORPORATED
EFFECTIVE
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

C:\wpdocs\willow\plans\wcexp.pln

This Notice of Intention to Conduct Minor Coal Exploration has been prepared by Cyprus Plateau Mining Corporation (a Delaware corporation) and submitted to the Utah State Division of Oil, Gas, and Mining for approval of a Minor Coal Exploration Permit to drill, survey and install 3 groundwater monitoring wells to determine water depth and investigate the geology and hydrogeology. The location of the drill holes are shown on the attached Figure 1.

Format of this application is:

Each regulation for which there is a response has been underlined.

Each regulation which apparently does not apply to coal exploration is presented in smaller type, and is not followed by a response or underlined.

Each response is left justified.

Report is completed in WordPerfect Win 6.1.

R645-200. Coal Exploration: Introduction.

R645-200-100. Scope.

122. Minor Coal Exploration. Coal exploration during which 250 tons or less of coal will be removed will require Division review of a Notice of Intention to Conduct Minor Coal Exploration under the requirements of R645-201-200.

This application qualifies as minor coal exploration because less than 250 tons of coal will be removed.

R645-200-200. Responsibilities

210. It is the responsibility of any person seeking to conduct coal exploration under the State Program to comply with the requirements of R645-200 through R645-203.

It is the intent of Cyprus Plateau Mining Corporation to comply with the coal exploration rules of the Utah State Division of Oil Gas and Mining (R645-200 through R645-203).

R645-201. Coal Exploration: Requirements for Exploration Approval.

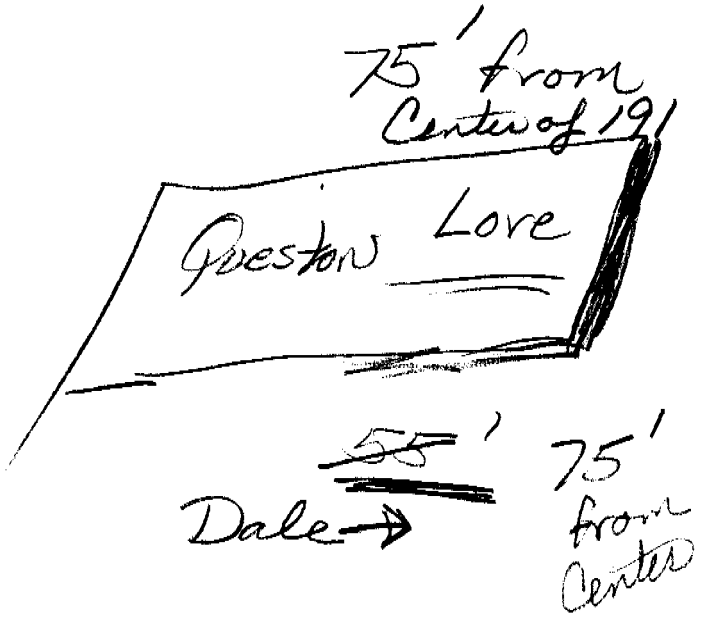
R645-201-200. Notices of Intention to Conduct Minor Coal Exploration.

R645-201-210. Notices of Intention to Conduct Minor Coal Exploration when 250 tons or less of coal will be removed will require Division review prior to conducting exploration.

INCORPORATED
EFFECTIVE
98 JUN - 8 1998
UTAH DIVISION OIL GAS AND MINING
PRICE FIELD OFFICE

DOT 636-1470

All 3, wells,
30 - 40' off of rh
berm (traveling NE to SW)



Cyprus Plateau Mining Corporation and its agents will not proceed without receiving written approval of this permit application.

R645-201-220. Notices of Intention to Conduct Minor Coal Exploration will include:

221. The name, address and telephone number of the applicant seeking to explore;

Cyprus Plateau Mining Corporation
P.O. Drawer 7007
Price, Utah 84501-7007
(435) 472-0475

222. The name, address and telephone number of the applicant's representative who will be present at, and responsible for conducting the exploration operations;

Johnny Pappas
Cyprus Plateau Mining Corporation
P.O. Drawer 7007
Price, UT 84501-7007
(435) 472-4741
(435) 472-0475

223. A narrative and map describing the exploration area and indicating where exploration will occur;

Narrative description of the proposed exploration area.

The exploration holes/groundwater monitoring wells are proposed to investigate stratigraphy, groundwater depth, flow, and water quality in conjunction with a revised Probable Hydrologic Consequences determination (PHC) and provide data that may be used in a groundwater intercept study being performed pursuant to Cyprus' Individual Discharge Permit Application. The water encounter experienced in July 1997, resulted in water that was not identified during the initial PHC. Mayo & Associates, LLC and Hansen, Allen & Luce, Inc. have been retained to assist in investigating the occurrence of water, sources of groundwater, direction of flow, age, use, and disposal options. To revise the PHC, additional information is needed from drill holes/monitoring wells.

Hole Descriptions:

Hole Number	*Description*	*Purpose*
B-13	Shallow groundwater level, flow direction and quality	Geology/Hydrology

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

B-14	Shallow groundwater level, flow direction and quality	Geology/Hydrology
B-15	Shallow groundwater level, flow direction and quality	Geology/Hydrology

Refer to Figure 1 for detailed map of the drill sites.

Legal Land Description.

Legal description of the area of interest for this Notice of Intent to Conduct Minor Coal Exploration is as follows:

Drill Hole/Monitoring Well Locations

No.	*Location*			*Land Ownership*
	Township 12 South, Range 10 East			
B-13	Section 31	SE¼NE¼	Willow Creek Canyon	Fee
B-14	Section 31	SE¼NE¼	Willow Creek Canyon	Fee
B-15	Section 31	SE¼NE¼	Willow Creek Canyon	Fee

See Regional ownership Map 1 in the Willow Creek Mine MRP.

224. A statement of the period of intended exploration; and

It is intended that exploration will commence in mid to late June or as soon as written approval of this application is received by Cyprus Plateau Mining Corporation, and proceed for approximately two weeks at the sites. Reclamation activities will be completed when further monitoring of these wells is deemed unnecessary. If these wells provide invaluable information and are required for the life of mine, then they will be incorporated into the MRP with the revised PHC.

225. A description of the method of exploration to be used, the amount of coal to be removed and the practices that will be followed to protect the area from adverse impacts of the exploration activities and to reclaim the area in accordance with the applicable requirements of R645-202.

Method of Exploration

Exploration drilling will involve air rotary drilling. Surface casings may be required to protect the well pipes as necessary through surface alluvium. PVC or steel pipes will be set at all holes and

INCORPORATED
EFFECTIVE
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

completed as surface monitoring wells in accordance with Utah's Administrative Rules for Water Well Drillers (Utah State Engineer's). Surface seals will be placed according to the Utah State Engineer's requirements to prevent intermingling of ground waters with surface water.

Access to the well sites will be via a small roadway connecting with Highway 191, authorized by UDOT via an Encroachment Permit (application attached), and travesing parallel to Willow Creek to the designated sites. There will not be any mud pits constructed or sizable pad areas for the air rotary drill rig to set up. The well sites can be placed adjacent to the bladed roadway. The equipment used to regrade the road may include, but not limited to: Grader, D-7 or similar track type dozer, rubber tired backhoe, or crawler type backhoe.

Wells B-13, B-14, and B-15 will be within 300 feet of each other and completed at varying depths. Access by personnel to the drill sites will be by pickup or similar vehicles. Wells will be permitted as required by the Division of Water Rights (application attached).

Amount of Coal to be removed.

Drill core or other strata is expected to be recovered during the program as necessary. The amount of coal removed will be less than 250 tons.

Practices that will be followed to protect the area from adverse impacts.

The drill pads for holes B-13, B-14, and B-15 will be kept as small and compact as practical to accommodate the drill rig and necessary equipment. Since an air drill rig will be use, no mud pits will be necessary. It is also anticipated that the wells can be installed adjacent to the bladed roadway. Site drainage will be controlled by berms, bales, and/or silt fencing.

R645-202. Coal Exploration: Compliance Duties.

R645-202-100. Required Documents.

> Each person who conducts coal exploration which substantially disturbs the natural land surface will while in the exploration area, have available a copy of the Notice of Intention to Conduct Minor Coal Exploration or Approved Major Coal Exploration Permit for review by an authorized representative of the Division upon request.

Copies of the approved Notice of Intention to Conduct Minor Coal Exploration will be distributed to the Drillers, Geologists, and any other agents of the company, and they will be available on-site for review by an authorized representative of the Division upon request.

R645-202-200. Performance Standards.

210. All coal exploration and reclamation operations which substantially disturb the natural land surface or which remove more than 250 tons of coal will be conducted

INCORPORATED
EFFECTIVE:
JUN - 8 1999
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

in accordance with the coal exploration requirements of the State Program, and any conditions on approval for exploration and reclamation imposed by the Division.

Drill cuttings are expected to be recovered during the program as necessary and the exploration activities will not substantially disturb the natural land surface. However, Cyprus Plateau Mining Corporation will reclaim the drill sites by redistributing any soils moved during construction activities, scarifying and seeding. Any minor drainages affected by removing vegetation and construction activities will be reshaped. The seed mix to be used is the permanent seed mixture (upland) as shown on Table 5.3-2, page 5.3-7, volume 3 of the Willow Creek Mining and Reclamation Permit. These sites will be reclaimed when their intended purpose is no longer needed.

220. Any person who conducts any coal exploration in violation of the State Program will be subject to the provisions of 40-10-20 of the Act and the applicable inspection and enforcement provisions of the R645 Rules.

Cyprus Plateau Mining Corporation will not conduct coal exploration in violation of the State Program.

230. Operational Standards.

231. Habitats of unique or unusually high value for fish, wildlife, and other related environmental values and critical habitats of threatened or endangered species identified pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) Will not be disturbed during coal exploration.

Threatened or Endangered Species.

There are no known threatened or endangered species within the designated area of exploration.

Quoting from the Willow Creek MRP,

> In addition to vegetation community mapping and identification and characterization of plant communities, research was conducted to evaluate the potential or presence of any Threatened, Endangered of Protected (T&E) plant species. T&E evaluations included consultations under the Utah Natural Heritage Program and discussions with local botanists of both the BLM and USDA-Forest Service. The original 1981 Price River Coal Company Vegetation Inventory was reviewed, and reconnaissance level field surveys were also completed. Research indicated that while several T&E plants are known to occur in the Carbon County area, specific habitat preferences limit potential T&E occurrences within the proposed lease and project areas to only one specie of potential concern, the Canyon Western Sweetvetch, Hedysarum occidentale var. canone. The computer files of the Utah Natural Heritage Program show this specie as occurring in the

INCORPORATED
EFFECTIVE:
JUN 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

upper reaches of Willow Creek several miles to the northeast of the mine site. The principal investigator for the recent vegetation inventories, who has worked extensively in this general area and is familiar with this species, has identified several small undocumented populations of Canyon Western Sweetvetch near Kenilworth, but has never encountered this specie during field work on either the "Willow Creek North" Tract (Federal Lease UTU-73975) or the planned Willow Creek facility's area.

Wildlife and Fish

Some of the predominate mammals which may occur in the general area include elk, deer, black bear, cougar, bobcat, coyote, badger, porcupine, snowshoe hare, golden mantled squirrel, Andy ground squirrel, red fox, gray fox, marmot, flying squirrel, and other species of small rodents.

Data from UDWR Fish and Wildlife information indicate the following birds may be found in the ecological zone:

Golden Eagle (protected, common)
Bald Eagle (endangered, rare)
Prairie Falcon (protected, common)
American Peregrine (endangered, rare)
Goshawk (protected, uncommon)
Sharp-shinned Hawk (protected, uncommon)
Cooper's Hawk (protected, transient)
Red-tailed Hawk (protected, common)
Swainsons's Hawk (protected, summer resident)
Marsh Hawk (protected, common)
Various species of owls (essentially all are protected and most show an abundance designation of common, summer resident, or transient
Blue Grouse (protected as a game bird, common)
Ruffed Grouse (protected as a game bird, common)
Sage Grouse (protected as a game bird, common)
California Quail (protected as a game bird, common)
Gambel's Quail (protected as a game bird, common)
Chukar (protected as a game bird, common)
Great Blue Heron (protected, abundance unknown)
Various species of geese, ducks, teal scalps, mergansers, and widgeons (essentially all are protected as game birds and most show an abundance designation of either common, summer resident, or transient).

INCORPORATED
EFFECTIVE
JUN - 8 1998
UTAH DIVISION OF OIL, GAS AND MINING
FIELD OFFICE

A Goshawk inventory was conducted June 1996 in the general areas by E.I.S. This inventory was conducted in conjunction with Environmental Assessment No. UT-066-97-24, Environmental Assessment for dba 138 kV Carbon-Spanish Fork Number 2 Transmission Line re-route Right-of-Way application UTU-74309, May 1997. No Goshawks were observed.

The Price River and Willow Creek are the only perennial streams or bodies of water capable of supporting fish within or near the exploration area. Access to the drill sites will not cross the waters of Willow Creek.

Reptiles and amphibians of the area may include; boreal toad, leopard frog, northern sagebrush lizard, rocky mountain rubber boa, great basin gopher snake and great basin rattlesnake.

Since all of the drill sites are near major highways and active mining areas, wildlife are either not present or have adjusted to the activity and there will be no disturbance to them.

232. All roads or other transportation facilities used for coal exploration will comply with the applicable provisions of R645-301-358, R645-301-512.250, R645-301-526.200, R645-301-527.100, R645-301-527.230, R645-301-534.100 through R645-301-534.300, R645-301-742.420, R645-301-752.200, and R645-301-762.

Access to the drill sites will be mostly on Highway 191 and then on a short access road connecting with Highway 191, constructed under UDOT's enchroachment permit, to the drill sites. By utilizing an exiting roadway to the extent possible, minimal new disturbance will be required. Access to drill site locations can be seen on Figure 1.

R645-301-358. Protection of Fish, Wildlife, and Related Environmental Values. The operator will, to the extent possible using the best technology currently available, minimize disturbances and adverse impacts on fish, wildlife, and related environmental values and will achieve enhancement of such resources where practicable.

Cyprus Plateau Mining Corporation, will to the extent possible, minimize disturbances and adverse impacts to fish, wildlife, and related environmental values. See response to R645-202-231 above.

R645-301-512.250 Primary Roads. The professional engineer will certify the design and construction or reconstruction of primary roads as meeting the requirements of R645-301-534.200 and R645-301-742.420.

Primary roads will not be constructed during this project per definition in ~~R645-301-527~~.120-123

R645-301-526.200. The plan must classify each road.

The access road connecting with Highway 191 will be ancillary

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

R645-301-527.230. A maintenance plan describing how roads will be maintained throughout their life to meet the design standards throughout their use.

The road will be graded prior to, during the exploration activities, and during the monitoring phase as needed. The road will also be watered if needed to control dust caused by travel. Heavy snowfall may require the periodic removal of such by snow plow or tractor as needed.

R645-301-534.100. Roads will be located, designed, constructed, reconstructed, used, maintained, and reclaimed so as to:

534.110. Prevent or control damage to public or private property;

Maintenance of the access road will be minor. The road is located on land owned by Cyprus Plateau Mining Corporation.

534.120. Use non-acid-forming or non toxic-forming substances in road surfacing;

The road will not be surfaced.

534.130. Have, at a minimum, a static safety factor of 1.3 for all embankments.

The short stretch connecting with Highway 191 will be constructed mostly within the highway right-of-way and on a flat to very gentle slope and be ancillary in nature.

534.140. Have a schedule and plan to remove and reclaim each road that would not be retained under an approved postmining land use.

The short access road will be reclaimed as soon as practical. At this time, CPMC can not state definitively when the road will be reclaimed, because the need to continue monitoring these wells depends on what information they provide CPMC with respect to the overall hydrologic regime. If the wells do not provide invaluable information, then reclamation can commence immediately after they are sealed. Therefore, it is possible to reseed the affected areas during the Fall of 1998. Additionally, if the wells are only needed for water level measurements, then the access road can be reclaimed because access for that activity is provided by Highway 191, whereby one can walk to the sites.

534.150. Control or prevent erosion, siltation and the air pollution attendant to erosion by vegetating or otherwise stabilizing all exposed surfaces in accordance with current, prudent engineering practices.

Erosion control measures will be taken, including diverting overland flows ~~around the road~~ and where necessary, constructing berms, installing silt fences, and other measures as required.

534.200. To ensure environmental protection and safety appropriate ~~for their~~ planned duration and use, including consideration of the type and size of equipment used.

INCORPORATED
EFFECTIVE
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

the design and reconstruction of roads will incorporate appropriate limits for grade, width, surface materials, and any necessary design criteria established by the Division.

The constructed access road will be sufficient for mobilization of drill and construction equipment. Existing roads are generally less than 15 feet wide and composed of compacted sands and gravel. As necessary, berms will be used to divert flows that would cause erosion or other problems.

R645-202-233. Topsoil will be separately removed, stored, and redistributed on areas disturbed by coal exploration activities as necessary to assure successful revegetation or as required by the Division.

Construction of the access road will sidecast the topsoil/growth media and vegetation into a furrow along the edge of the road. By using an air rotary drill, a drill pad area will not need to be constructed, thereby removing the need to segregate additional topsoil and/or growth media. During reclamation, the stockpiled topsoil/growth media will be redistributed along the constructed access road or any new disturbance associated with the road construction.

R645-202-234. Diversions of overland flows and ephemeral, perennial, or intermittent streams will be made in accordance with R645-301-742.300.

It is anticipated that no major diversions will be necessary for the duration of this project. Minor diversions may be necessary to control erosion or divert flows away from the roads or drill sites. If it becomes necessary, diversions of overland flows will be made in accordance with R645-301-742.300. Water bars, ditches and/or culverts will be used if needed to control overland flow.

R645-202-235. Coal exploration will be conducted in a manner which minimizes disturbance of the prevailing hydrologic balance in accordance with R645-301-356.300 through R645-301-356.400, R645-301-512.240, R645-301-513.200, R645-301-514.300, R645-301-515.200, R645-301-533.100 through R645-301-533.600, R645-301-731.100 through R645-301-731.522, R645-301-731.800, R645-301-733.220, through R645-301-733.240, R645-301-742.200 through R645-301-742.300, R645-301-743, and R645-301-763. The Division may specify additional measures which will be adopted by the person engaged in coal exploration.

356.300. Siltation structures will be maintained until removal is authorized by the Division and the disturbed area has been stabilized and revegetated. In no case will the structure be removed sooner than two years after the last augmented seeding.

356.400 When a siltation structure is removed, the land on which the siltation structure was located will be revegetated in accordance with the reclamation plan and R645-301-

INCORPORATED
EFFECTIVE
JUN 8 1998
UTAH DIVISION OIL, GAS AND MINING
FIELD OFFICE

353 through R645-301-357.

Minor siltation structures such as silt fences, straw bales or berms will be used as needed to control erosion after drilling is completed. If reclamation is delayed beyond the period immediately after drilling, (i.e. if adverse weather conditions prevent reclamation from taking place before the close of the drilling season) siltation structures will be maintained until reclamation is completed.

512.240. Impoundments. The professional engineer will use current, prudent, engineering practices and will be experienced in the design and construction of impoundments and certify the design of the impoundment according to R645-301-743.

513.200. Impoundments and sedimentation ponds meeting the size of other qualifying criteria of MSHA, 30 CFR 77.216 (a) will comply with the requirements of MSHA, 30 CFR 77.216 (see R645-301-533.600, R645-301-742.222, and R645-301-742.223).

514.300. Impoundments.

515.200 Impoundment Hazards. The permit application will incorporate a description of notification when potential impoundment hazards exist. The requirements for the description are: If any examination or inspection discloses that a potential hazard exists, the person who examined the impoundment will promptly inform the Division of the finding and of the emergency procedures formulated for public protection and remedial formulated for public protection and remedial action. If adequate procedures cannot be formulated of implemented, the Division will be notified immediately. The division will then notify the appropriate agencies that other emergency procedures are required to protect the public.

533.100. An impoundment meeting the size or other criteria of 30 CFR 77.216(a) or located where failure would be expected to cause loss of life or serious property damage will have a minimum static safety factor of 1.5 for a normal pool with steady state seepage saturation conditions and a seismic safety factor of at least 1.2. Impoundments not meeting the size or other criteria of 30 CFR 77.216(a), except for coal mine waste impounding structure, and located where failure would not be expected to cause loss of life or serious property damage will have a minimum static safety factor of 1.3 for normal pool with steady state seepage saturation conditions or meet the requirements of R645-301-733.210.

533.200. Foundation for temporary and permanent impoundments must be designed so that:

533.210. Foundation and abutments for the impounding structure will be stable under all conditions of construction and operation of the impoundment sufficient

INCORPORATED
EFFECTIVE:
JUN 8 1998
98C
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

foundation investigations and laboratory testing will be performed in order to determine the design requirements for foundation stability; and

533.220. All vegetative and organic materials will be removed and foundations excavated and prepared to resist failure. Cutoff trenches will be installed if necessary to ensure stability.

533.300. Slope protection will be provided to protect against surface erosion at the site and protect against sudden drawdown.

533.400. Faces of embankments and surrounding areas will be vegetated except that faces where water is impounded may be riprapped or otherwise stabilized in accordance with accepted design practices.

533.500. The vertical portion of any remaining highwall will be located far enough below the low-water line along the full extent of highwall to provide adequate safety and access for the proposed water users.

533.600. Impoundments meeting the criteria of MSHA, 30 CFR 77.216(a) will comply with the requirements of MSHA, 30 CFR 77.216 and R645-301-512.240, R645-301-514.300, R645-301-515.200, R645-301-533.100 through R645-301-533.600, R645-301-733.220 through R645-301-733.224, and R645-301-743. The plan required to be submitted to the District Manager of MSHA under 30 CFR 77.216 will also be submitted to the Division as part of the permit application.

Not applicable because impoundments, as managed under these regulations, will not be constructed for this exploration project.

731.100. Hydrologic-Balance Protection.

731.110. Groundwater Protection. In order to protect the hydrologic balance, coal mining and reclamation operations will be conducted according to the plan approved under R634-301-731 and the following:

731.111. Groundwater quality will be protected by handling earth materials and runoff in a manner that minimizes acidic, toxic or other harmful infiltration to groundwater systems and by managing excavations and other disturbances to prevent or control the discharge of pollutants into the groundwater;

Ground water quality will be protected by handling earth materials and runoff from the drilling activities in a manner that minimizes acidic, toxic, and other harmful materials. All drill holes will be plugged (cemented) from bottom to top by a licensed driller to prevent infiltration of surface water into the ground.

INCORPORATED
EFFECTIVE
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
FIELD OFFICE

731.112. For the purposes of Surface coal mining and reclamation activities ground water quantity will be protected by handling earth materials and runoff in a manner that will restore approximate premining recharge capacity of the reclaimed area as a whole, excluding coal mine waste disposal areas and fills, so as to allow the movement of water to the ground water system.

Not applicable because this exploration project will not include surface coal mining.

731.120. Surface Water Protection. In order to protect the hydrologic balance, coal mining and reclamation operations will be conducted according to the plan approved under R645-301-731 and the following:

731.121. Surface water quality will be protected by handling earth materials, ground water discharges and runoff in a manner that minimizes the formation of acidic of toxic drainage; prevents, to the extent possible using the best technology currently available, additional contributions of suspended solids to streamflow outside the permit area; and, otherwise prevent water pollution. If drainage control, restabilization and revegetation of disturbed areas, diversion of runoff, mulching or other reclamation and remedial practices are not adequate to meet the requirements of R645-301-731.100 through R645-301-731.522, R645-301-731.800 and R645-301-751, the operator will use and maintain the necessary water treatment facilities or water quality controls; and

731.122. Surface water quantity and flow rates will be protected by handling earth materials and runoff approved under R645-301-731.

Surface water quality will be protected from acid-forming runoff and surface water will be protected so that any contribution of sediment to the stream flow is minimized. Discussions of roads and drill pads runoff have been presented previously.

731.200. Water Monitoring.

731.210. Ground Water Monitoring. Ground water monitoring will be conducted according to the plan approved under R645-301-731.200 and the following:

The proposed drill holes are not intended to be used for long term water monitoring purposes. If information obtained shows that they provide valuable information and should be monitored for the life-of-mine, then they will be incorporated into the monitoring plan.

731.211. The permit application will include a ground water monitoring plan based upon the PHC determination required under R645-301-728 and the analysis of all baseline hydrologic, geologic and other information in the permit application. The plan will provide for the monitoring of parameters that relate to the suitability of the ground water for current and approved postmining land uses and to the objectives for protection of the hydrologic balance set forth in R645-301-731. It will identify the

INCORPORATED
JUN
UTAH DIVISION OF OIL, GAS AND MINING
FIELD OFFICE

quantity and quality parameters to be monitored, sampling frequency and site locations. It will describe how these data may be used to determine the impacts of the operation upon the hydrologic balance. At a minimum, total dissolved solids or specific conductance corrected to 25 degrees C, pH, total iron, total manganese and water levels will be monitored;

731.212. Ground water will be monitored and data will be submitted at least every three months for each monitoring location. Monitoring submittals will include analytical results from each sample taken during the approved reporting period. When the analyses of any ground water sample indicates noncompliance with the permit conditions, then the operator will promptly notify the Division and immediately take the actions provided for in R645-300-145 and R645-301-731;

731.213. If an applicant can demonstrate by the use of the PHC determination and other available information that a particular water bearing stratum in the proposed permit and adjacent areas is not one which serves as an aquifer which significantly ensures the hydrologic balance within the cumulative impact area, then monitoring of that stratum may be waived by the Division;

713.214. Ground water monitoring will proceed through mining and continue during reclamation until bond release. Consistent with the procedures of R645-303-220 through R645-303-228 the Division may modify the monitoring requirements including the parameters covered and the sampling frequency if the operator demonstrates, using the monitoring data obtained under R645-301-731.214 that:

713.214.1 The coal mining and reclamation operation has minimized disturbance to the prevailing hydrologic balance in the permit and adjacent areas and prevented material damage to the hydrologic balance outside the permit area; water quantity and quality are suitable to support approved postmining land uses and the surface coal mining and reclamation activity has protected or replaced the water rights of other users; or

713.214.2. Monitoring is no longer necessary to achieve the purposes set forth in the monitoring plan approved under R645-301-731.211.

731.215. Equipment, structures and other devices used in conjunction with monitoring the quality and quantity of ground water on-site and off-site will be properly installed, maintained and operated and will be removed by the operator when no longer needed.

713.220. Surface Water Monitoring. Surface water monitoring will be conducted according to the plan approved under R645-301-731.220 and the following:

731.221. The permit application will include a surface water monitoring plan based upon the PHC determination required under R645-301-728 and the analysis of all baseline

INCORPORATED
EFFECTIVE
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PROJ. FIELD OFFICE

hydrologic, geologic and other information in the permit application. The plan will provide for the monitoring of parameters that relate to the suitability of the surface water for current and approved postmining land uses and to set forth in R645-301-731 as well as the effluent limitations found in R645-301-751;

731.222. The plan will identify the surface water quantity and quality parameters to be monitored, sampling frequency and site locations. It will describe how these data may be used to determine the impacts of the operation upon the hydrologic balance:

Regulation's 731.210 through 731.222 are not applicable to this coal exploration application.

731.800. Water Rights and Replacement. Any person who conducts surface coal mining and reclamation activities will replace the water supply of an owner of interest in real property who obtains all or part of his or her supply of water for domestic, agricultural, industrial, or other legitimate use from an underground or surface source, where the water supply has been adversely impacted by contamination, diminution, or interruption proximately resulting from the surface mining activities. Baseline hydrologic information required in R645-301-624.100 through R645-301-624.200, R645-301-625, R645-301-626, R645-301-723 through R645-301-724.300, R645-301-724.500, R645-301-725 through R645-301-731, and R645-301-031.210 through R645-301-731.223 will be used to determine the extent of the impact of mining upon ground water and surface water.

Regulation 731.800 is not applicable to this coal exploration application.

742.200. Siltation Structures.

742.210. General Requirements.

742.211. Additional contributions of suspended solids and sediment to streamflow of runoff outside the permit area will be prevented to the extent possible using the best technology currently available.

742.212. Siltation structures for an are will be constructed before beginning any coal mining and reclamation operations in that area and, upon construction, will be certified by a qualified registered professional engineer to be constructed as designed and as approved in the reclamation plan.

742.213. Any siltation structures which impounds water will be designed, constructed and maintained in accordance with R645-301-512.240, R645-301-514.300, R645-301-515.200, R645-301-533.100 through R645-301-533.600, R645-301through R645-301-733.224, and R645-301-743.

742.214. For the purposes of Underground coal mining and reclamation activities, any

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING

point-source discharge of water from underground workings to surface waters which does not meet the effluent limitations of R645-301-751 will be passed through siltation structure before leaving the permit area.

Construction of siltation structure has been discussed previously.

742.220. Sedimentation Ponds.

742.221. Sedimentation ponds, when used, will:

742.221.1. Be used individually or in series;

742.221.2. Be located as near as possible to the disturbed area and out off perennial streams unless approved by the Division; and

742.221.3. Be designed, constructed, and maintained to:

742.221.31. Provide adequate sediment storage volume;

742.221.32. Provide adequate detention time to allow the effluent from the ponds to meet Utah and federal effluent limitations;

742.221.33. Contain or treat the 10-year, 24-hour precipitation event ("design event") unless a lesser design event is approved by the Division based on terrain, climate, or other site-specific conditions and on a demonstration by the operator that the effluent limitations of R645-301-751 will be met;

742.221.34. Provide a nonclogging dewatering device adequate to maintain the detention time required under R645-301-742.221.32.

742.221.35. Minimize, to the extent possible, short circuiting;

742.221.36. Provide periodic sediment removal sufficient to maintain adequate volume for the design event;

742.221.37. Ensure against excessive settlement;

742.221.38. Be free of sod, large roots, frozen soil, and acid or toxic forming coal processing waste; and

742.221.39. Be compacted properly.

742.222. Sedimentation ponds meeting the size or other qualifying criteria of the MSHA, 30

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING

CFR 77.216(a) will comply with all the requirements of that section, and will have a single spillway or principal and emergency spillways that in combination will safely pass a 100-year, 6-hour precipitation event or greater event as demonstrated to be necessary by the Division.

742.223. Sedimentation ponds not meeting the size or other qualifying criteria of the MSHA, 30 CFR 77.216(a) will provide a combination of principal and emergency spillways that will safely discharge a 25-year, 6-hour precipitation event or greater event as demonstrated to be needed by the division. Such ponds may use a single open channel spillway if the spillway is:

742.223.1. Of nonerodible construction and designed to carry sustained flows; or

742.223.2. Earth or grass lined and designed to carry short-term infrequent flows at non-erosive velocities where sustained flows are not expected.

742.224. In lieu of meeting the requirements of R645-301-742.223.1 and 742.223.2 the Division may approve a sedimentation pond that relies primarily on storage to control the runoff from the design precipitation event when it is demonstrated by the operator and certified by a qualified registered professional engineer in accordance with R645-201-512.200 that the sedimentation pond will safely control the design precipitation event. The water will be removed from the pond in accordance with current, prudent, engineering practices and any Sediment pond so used will not be located where failure would be expected to cause loss of life or serious property damage.

742.225. An exception to the sediment pond location guidance in R645-301-742.224 may be allowed:

742.225.1. In the case of a sedimentation pond meeting the size or other criteria of 30 CFR 77.216(a), if the pond is designed to control the precipitation of the probable maximum precipitation of a 6 hour event or greater event if specified by the Division; or 30 CFR 816.46 (c) (2) (ii) (A))

742.225.2. In the case of a sedimentation pond not meeting the size or other criteria of 30 CFR 77.216 (a), if the pond is designed to control the precipitation of a 100-year 6-hour event or greater event if demonstrated to be needed by the Division.

742.230. Other Treatment Facilities.

742.231. Other treatment facilities will be designed to treat the 10-year, 24-hour precipitation event unless a lesser design event is approved by the Division based on terrain, climate, other site-specific conditions and a demonstration by the operator that the effluent limitations of R645-301-751 will be met.

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

742.232. Other treatment facilities will be designed in accordance with the applicable requirements of R645-30-1742.220.

742.240. Exemptions. Exemptions to the requirements of R645-301-742.200 and R645-301-763 may be granted if the disturbed drainage area within the total disturbed area is small and the operator demonstrates that siltation structures and alternate sediment control measures are not necessary for drainage from the disturbed areas to meet the Effluent limitations under R645-301-751 or the applicable Utah and federal water quality standards for the receiving waters.

Regulation's 742.200 through 7420 are not applicable to this coal exploration project.

742.300. Diversions.

Addressed previously.

763. Siltation Structures.

763.100. Siltation Structures will be maintained until removal is authorized by the Division and the disturbed area has been stabilized and revegetated. In no case will the structure be removed sooner than two years after the last augmented seeding.

763.200. When the siltation structure is removed, the land on which the siltation structure was located will be regarded and revegetated in accordance with the reclamation plan and R645-301-358, R645-301.356, and R645-301-357. Sedimentation ponds approved by the Division for retention as permanent impoundments may be exempted from this requirement.

Alternate sediment control measures would consist of using straw bales and silt fences as temporary siltation structures, and by using berms to divert water to siltation structures if needed.

R645-202-236. Acid- or toxic-forming materials will be handled and disposed of in accordance with R645-301-731.110, R645-301-731.300, and R645-301-553.260. The Division may specify additional measures which will be adopted by the person engaged in coal exploration.

Acid-forming or toxic-forming materials will not be used on this project. Drill cuttings will be alluvial material and non-toxic in nature. If fresh core is collected, it will be taken off site. Also, see response to 731.110 above. Fuel spill contamination will be contained, collected and disposed of, off property, in an approved manner.

R645-202-240. Reclamation Standards.

R645-202-241. If excavations, artificially flat areas, or embankments are created during exploration, these areas will be returned to the approximate original

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

contour promptly after such features are no longer needed for coal exploration.

R645-202-242. All areas disturbed by coal exploration activities will be revegetated in a manner that encourages prompt revegetation and recovery of a diverse, effective, and permanent vegetative cover. Revegetation will be accomplished in accordance with the following:

R645-202-242.100. All areas disturbed by coal exploration activities will be seeded or planted to the same seasonal variety native to the areas disturbed. If the land use of the exploration area is intensive agriculture, planting of the crops normally grown will meet the requirements of R645-202-242.100; and

R645-202-242.200. The vegetative cover will be capable of stabilizing the soil surface from erosion.

The exploration sites will have trash and debris removed regularly and be clear on noncoal waste upon completion of exploration activities. Any new access road or drill pad will be returned to the approximate original contour, scarified, and re-seeded with the seed mix shown on Table 5.3-2 in the Willow Creek MRP. Existing roads will be returned to a condition equal to or better than their condition prior to commencement of the exploration activities. Seeding of the rehabilitated access roads and/or drill pads will be accomplished in the first season following completion of the exploration program.

R645-202-243. Each exploration hole, borehole, well, or other exposed underground opening created during exploration will be reclaimed in accordance with R645-301-529, R645-301-551, R645-301-631, R645-301-738, and R645-301-765.

Upon completion of drill holes B-13, B-14, and B-15 and when all possible geologic and hydrogeologic information has been gathered, the holes will be cemented from bottom to the top of the hole (total depth) by a licensed driller. Reclamation of roads and drill pads has been addressed previously.

R645-202-244. All facilities and equipment will be promptly removed from the exploration area when they are no longer needed for exploration, except for those facilities and equipment that the Division determines may remain to:

R645-202-244.100. Provide additional environmental data;

R645-202-244-200. Reduce or control the on-site and off-site effects of the exploration activities; or

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

R645-202-244-300. Facilitate future coal mining and reclamation operations by the person conducting the exploration.

All equipment will be promptly removed from the exploration area upon completion of drilling and reclamation will be conducted as described in response to 240-242.200 above.

Bonding

It is my understanding that the Division does not require bond revisions for cummulative activities that do not increase the existing bond by more that 5 percent. Therefore, the existing $11,949,205.00 is sufficient to cover this exploration activity. Thus far, the only approved revisions to the Willow Creek Mine Permit that would apply to the 5 percent rule are the $49,537.00 for the Clean Coal Pile Expansion and $10,859.00 for the Degassification Wells. The proposed activity will not add significantly to that already accrued against the bond to where it excceds the 5 percent rule. In order to exceed the 5 percent rule, $597,460.00 of cummulative increases will have to be proposed and approved.

How many exploration holes have been permitted up to this time?
How many have been completed?
How many have been reclaimed?
$597,000

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

ATTACHMENTS

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

CYPRUS PLATEAU MINING CORPORATION
A Cyprus Amax Company

Willow Creek Mine
847 Northwest Highway 191
Helper, Utah 84526
(435) 472-0475
Fax: (435) 472-4780

May 20, 1998

Mr. Mark Page
Utah Division of Water Rights
453 South Carbon Avenue
P.O. Box 718
Price, Utah 84501-0718

RE: Request for Monitoring Well Construction, Willow Creek Mine, Cyprus Plateau Mining Corporation, Carbon County, Utah

Dear Mr. Page:

Enclosed please find Cyprus Plateau Mining Corporation's request for the construction of three water monitoring wells. The groundwater wells are needed to provide information necessary to determine groundwater occurrence, quality, and evaluate the source of groundwater recharge into the K-seam workings.

Three new wells are proposed; however, depending on the data the first well (drilled 200 ft) provides will dictate whether or not the other two wells are drilled. Figure 1 shows the locations of the proposed wells.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 472-4741.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

Enclosure

Chrono: JP980508.LTR
File: WCENV2.4.2

INCORPORATED
EFFECTIVE:
98C JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

REQUEST FOR PROVISIONAL/MONITOR WELL CONSTRUCTION

(for wells deeper than 30 feet)

Well Type (check one): Provisional ( ) Monitor (X)

Applicants Name: CYPRUS PLATEAU MINING CORPORATION

Mailing Address: 847 NW HIGHWAY 191

HELPER, UTAH 84526

Contact Person: JOHNNY PAPPAS Phone: (435) 472-4741

Proposed Start Date: JUNE 15, 98 Anticipated Completion Date: JULY 31, 98

Well Drillers License No: 582 Proposed No. of Wells: 3

PROPOSED LOCATION OF WELLS: County: CARBON

NO./SO. DISTANCE (feet)	EAST/WEST DISTANCE (feet)	SECTION CORNER	SECTION	TOWNSHIP	RANGE	BASE	DIAMETER (inches)	DEPTH (feet)
N1000	W1300	W4	15	2S	1W	SL	2	100
S1950	W1100	NE	31	12S	10E	SL	3	200
S1975	W1150	NE	31	12S	10E	SL	3	100
S2000	W1200	NE	31	12S	10E	SL	3	50

Use back of form or additional paper if more room is needed

EXPLANATORY: Three new groundwater wells are needed to provide information necessary to determine groundwater occurance, quality, and evaluate the source of groundwater recharge into the K-Seam workings.

Signature of Applicant

May 20, 1998
Date

FOR OFFICE USE ONLY

Date of Request: _____ Approval Date: _____

Approved by: ____ Provisional/Monitor Well No. 98

Water Right Number (if available):

INCORPORATED
EFFECTIVE:
JUN - 8 1998

UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

CYPRUS PLATEAU MINING CORPORATION
A Cyprus Amax Company

Willow Creek Mine
847 Northwest Highway 191
Helper, Utah 84526
(435) 472-0475
Fax: (435) 472-4780

May 20, 1998

Mr. Dale Stapley
Utah Department of Transportation
Price District
940 South Carbon Avenue
Price, Utah 84501-0903

RE: Application for Right of Way Encroachment Permit, Willow Creek Mine, Cyprus Plateau Mining Corporation, Carbon County, Utah

Dear Mr. Stapley:

Enclosed please find Cyprus Plateau Mining Corporation's (CPMC) application and fees for right of way encroachment permit. CPMC would like to encroach upon Highway 191, at a 90-degree angle, to provide access to the area shown on Figure 1 for the drilling of three water monitoring wells. The groundwater wells are needed to provide information necessary to determine groundwater occurrence, quality, and evaluate the source of groundwater recharge into the K-seam workings.

In order to access the lower bench, fill material will need to be brought in and placed to grade, so that the drill rig, vehicles, and other ancillary equipment can ramp down from Highway 191 onto the working bench. The length of time that access to the lower bench will be needed is undetermined at this time. The information provided by, and method of monitoring, the wells will dictate how long access will be required to these wells. If after the initial sampling program it is determined that monitoring for water level is only necessary, then the access road to the sites can be reclaimed this Fall, because access for water level measurements is provided by foot from Highway 191.

The proposed location of the drill sites is approximately 1.2 miles northeast of mile post 158 along Highway 191 and within 2500 feet of the Willow Creek Mine Facility.

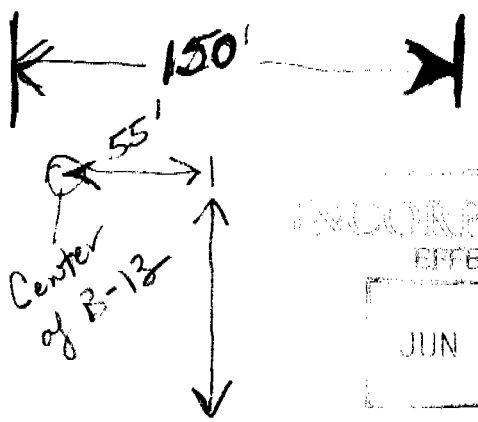
If you have any questions or need additional information, please do not hesitate to contact me at (435) 472-4741.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

Enclosure

Chrono: JP980509.LTR
File: WCENV 2.2



INCORPORATED
EFFECTIVE
JUN - 8 1998
AS AND MINING
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

CYPRUS PLATEAU MINING CORPORATION
A Cyprus Amax Company

Willow Creek Mine
847 Northwest Highway 191
Helper, Utah 84526
(435) 472-0475
Fax: (435) 472-4780

May 20, 1998

Mr. Dale Stapley
Utah Department of Transportation
Price District
940 South Carbon Avenue
Price, Utah 84501-0903

RE: Application for Right of Way Encroachment Permit, Willow Creek Mine, Cyprus Plateau Mining Corporation, Carbon County, Utah

Dear Mr. Stapley:

Enclosed please find Cyprus Plateau Mining Corporation's (CPMC) application and fees for right of way encroachment permit. CPMC would like to encroach upon Highway 191, at a 90-degree angle, to provide access to the area shown on Figure 1 for the drilling of three water monitoring wells. The groundwater wells are needed to provide information necessary to determine groundwater occurrence, quality, and evaluate the source of groundwater recharge into the K-seam workings.

In order to access the lower bench, fill material will need to be brought in and placed to grade, so that the drill rig, vehicles, and other ancillary equipment can ramp down from Highway 191 onto the working bench. The length of time that access to the lower bench will be needed is undetermined at this time. The information provided by, and method of monitoring, the wells will dictate how long access will be required to these wells. If after the initial sampling program it is determined that monitoring for water level is only necessary, then the access road to the sites can be reclaimed this Fall, because access for water level measurements is provided by foot from Highway 191.

The proposed location of the drill sites is approximately 1.2 miles northeast of mile post 158 along Highway 191 and within 2500 feet of the Willow Creek Mine Facility.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 472-4741.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

Enclosure

Chrono: JP980509.LTR
File: WCENV 2.2

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

Form T-223

UTAH DEPARTMENT OF TRANSPORTATION

Application for Right of Way Encroachment Permit

(WORK CANNOT BEGIN UNTIL PERMIT IS APPROVED)

Date MAY 20, 19 98

To: District Director
UTAH DEPARTMENT OF TRANSPORTATION

*(1) Application is hereby made by: Cyprus Plateau Mining Corporation
*(2) Address: 847 NW Highway 191, Helper, UT 84526 Tel. No. (435) 472-4741
*(3) for permission to do the following: Come off Highway 191 at 90° angle to provide access to 3 drill sites as shown on Figure 3.

*(4) Location: With mile post 159 missing, mile post 158 is used. Location is approx. 1.2 miles NE along Highway 191 from mile post 158.

City Helper County Carbon Highway No. 191
Milepost 158 - 1.2 miles NE in accordance with the attached plan *(5)

*(6) Construction will begin on or about June 15, 19 98.
and will be completed on or before July 15, 19 98.

New underground utility installations crossing highway must be placed by boring. If boring is impossible due to unusual circumstances such as soil conditions, existing utilities, etc., a request for an exception may be made to the District Director and the following information provided:

a. Type of pavement _____
b. Excavation will be _____ feet long by _____ feet wide and _____ feet deep.
c. A bond in the amount of $ _____ has been posted with _____ Tel. No. _____ to run for a term of three [3] years after completion of work to guarantee satisfactory performance.

If this permit is granted, we agree to comply with all conditions, restrictions and regulations contained in the UDOT Policy 08-87 "Accommodation of Utilities on Federal-Aid and Non Federal-Aid Highway Right of Way", and "Special Limitations" required by the District Director or his duly authorized representative.

CYPRUS PLATEAU MINING CORPORATION
Owner

Signature

Sr. Environmental Engineer
Title

*Refer to Instructions on back

To be filled in by the District Director:
Permit ___ should ___ should not be granted.
Special Limitations _____

INCORPORATED
EFFECTIVE:
JUN - 8 1998

District Traffic Engineer

DIVISION OF OIL, GAS AND MINING
PRICE FIELD OFFICE

ORIGINAL

UTAH DEPARTMENT OF TRANSPORTATION

PERMIT

T-226(6/97)
HIGHWAY RIGHT OF WAY
ACCESS
Region 4
District: Price

98-364-44
Date: 6/1/98
Work order #:

Application of: CYPRUS PLATEAU MINING CORPORATION **Phone:** 472-4741

By: JOHN PAPPAS **Title:** SR ENVIRONMENTAL ENGINEER

Address: 847 NW HIGHWAY 191 HELPER, UTAH 84526

is hereby granted, subject to UDOT's Regulations For The Accommodation of Utilities on Federal Aid and Non Federal-Aid Highway Right of Way, Regulations for the Control and Protection of State Highway Rights of Way, Standard Specifications for Road and Bridge Construction, Specifications for Excavation of State Highways, State Occupational Safety and Health Laws, Manual on Uniform Traffic Control Devices, Instructions to Flaggers, the approved plans, and any special limitations set forth herein, permission for the purpose of **CONSTRUCT AN APPROACH OFF HWY 191 TO ACCESS 3 DRILL SITES WITHIN UDOT RIGHT OF WAY.** within the right of way limits of Highway No. **191** Milepost No. **159.2**, in **CARBON** County, in the following locations: **NORTH SIDE OF HWY 191 APPROX MILEMARKER 159.2.**

Receipt of $20.00 permit fee is hereby acknowledged. The work permitted herewith shall commence **6/1/98** and shall be diligently prosecuted to completion. The work shall be completed and all disturbed surfaces or objects restored on or before **7/15/98**. In the event work is commenced under this permit and the permittee fails or refuses to complete the work, the Utah Department of Transportation may, at its election, fill in or otherwise correct any existing deficiencies at the expense of and subject to immediate payment by the permittee.

Permittee shall execute a bond in the minimum amount of **$0.00**, as determined by the Region Director/District Engineer, to insure faithful performance of the permittee's obligation. The bond shall remain in force for three years after completion of work.

Before work permitted herewith is commenced, the permittee shall notify Dale Stapley at 636-1402, permits officer, or **Arthur Lopez 870-8772**, and commencement of said work is understood to indicate that the permittee will comply with all instructions and regulations of the Utah Department of Transportation (as listed above) with respect to performance of said work, and that he will properly control and warn the public of said work to prevent accident and shall indemnify and hold harmless the Utah Department of Transportation from all damages arising out of any and all operations performed under this Permit.

Permittee shall not perform any work on State Highway right of way beyond those areas of operations stipulated on this permit.

If permittee fails to comply with Utah Department of Transportation regulations, specifications, or instructions pertinent to this permit, the Region Director/District Engineer or his duly authorized representative, may by verbal order, suspend the work until the violation is corrected. If permittee fails or refuses to comply promptly, the Region Director/District Engineer or his authorized representative may issue a written order stopping all or any part of the work. When satisfactory corrective action is taken, an order permitting resumption of work may be issued.

Special Limitations: This agreement and/or permit is UDOT approval only. You are responsible to obtain clarances form private property owners and the local jurisdiction you are working within. Warning signs and traffic control required as per MUTCD. Flaggers required if moving traffic out of traffic lane. Orange shirts or vests required of all workers within the right of way. Check for other utilities in the area prior to excavation. (Blue Stakes) If a suspected historic, archeological, or paleontological item or site is encountered, construction shall be immediately stopped and UDOT notified. Contractor responsible for repairing and/or restoring any portion of the roadway damaged during construction. 20 FT APPROACH WITH 20 FT RADIUS. NOT STEEPER THAN -6%. ALL FUTURE RECLAIMATION TO BE IN ACCORDANCE WITH UDOGM R-645 REGULATIONS. NO BUILDINGS OR DRILLING WITHIN 30 FT OF PAVEMENT.

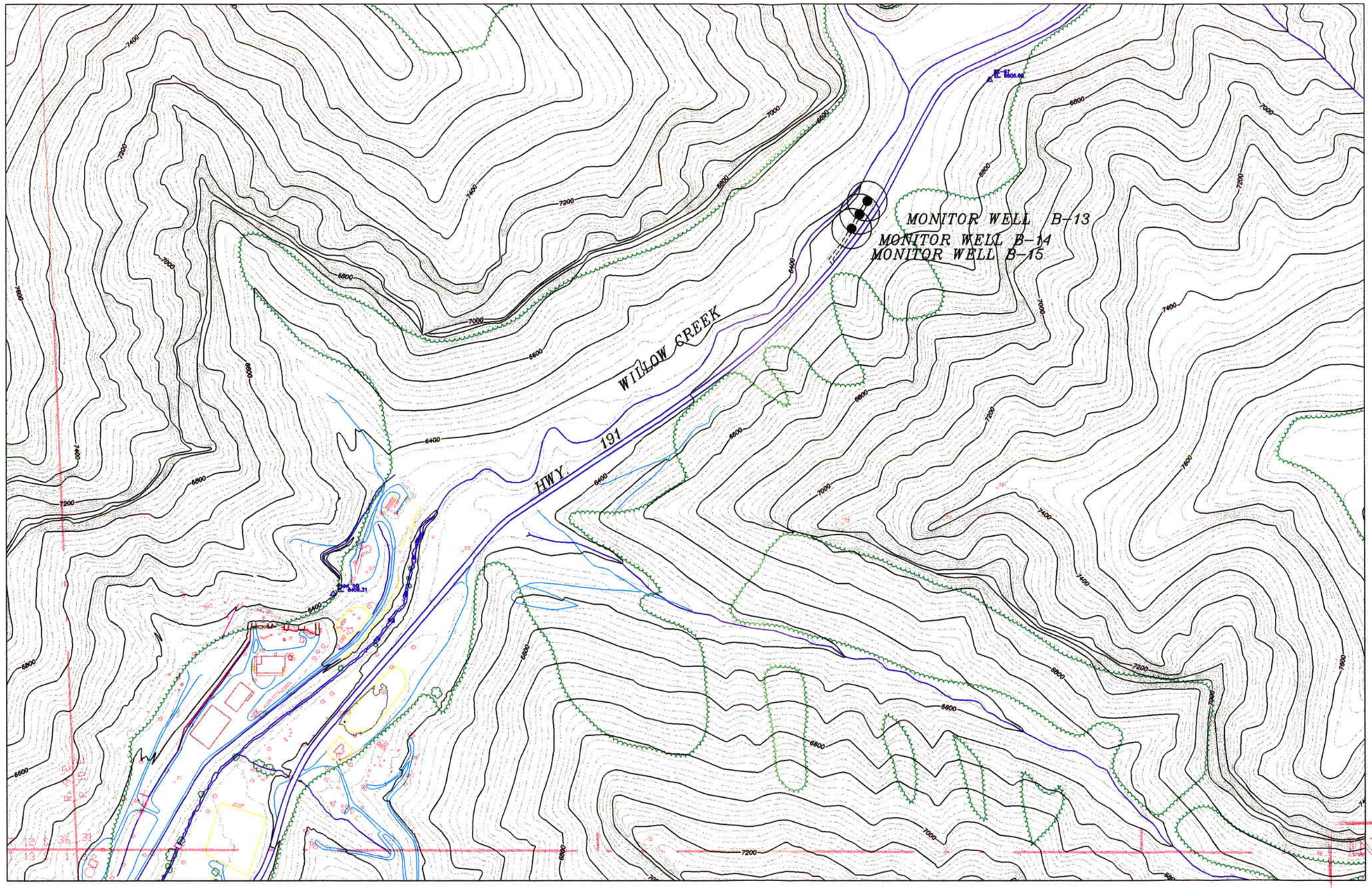
JOHN PAPPAS(see application)

(Signature of Permittee)

Approved By: Dale Stapley
(Region Director/District Engineer)

INCORPORATED
EFFECTIVE:
JUN - 8 1998
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

Maintenance Station No. 435 Arthur Lopez 870-8772



500 250 0 500

NAD 1927 DATUM (SEALEVEL ELEVATION)
C:\RAY\WILLOW\WILLOW-CREEK-EXP.DWG

LEGEND

⊙ MONITOR WELL B-14

INCORPORATED
EFFECTIVE:
98 8 1998

CYPRUS PLATEAU MINING
WILLOW CREEK MINE
647 Northwest Hwy. 191, Helper, Utah 84526
PHONE: (435) 472-0475

EXPLORATION PERMIT APPLICATION
WILLOW CREEK MONITOR WELL LOCATION'S
SE 1/4 NE 1/4
SECTION 31 T. 12 S., R. 10 E.
MAY 19, 1998
FIGURE 1

C:\RAY\WILLOW\willow-creek-exp.dwg Tue May 19 09:26:32 1998