N.?\VAJA ALLOTTED LAND (Continued)

Leuse Number	Leasee	Date of Lease	Acreage
-5671	Cobb Nuclear Corp.	11/18/75	160.00
-5672	Cobb Nuclear Corp.	11/18/75	160.00
-5675	Phillips Ur.:mium	10/23/75	160.00
-5676	Phillips Uranium	10/23/75	160.00
567 7	United l':uear Corp.	10/10/75	160.00
-5678	United 1.;uear corp.	10/10/75	160.00
-5679	United Nuclear Corp.	10/10/75	160.00
-5680	United 1 uear Corp.	10/10/75	160.00
-5631	G. \arnock	10/23/75	160.00
-5682	\esternt-:uc1canc.	10/29/75	160.00
-5633	h'estern :1\uclarnc.	10/29/75	160.00
-5684	\..'estern uear, Inc.	10/29/75	160.00
-5685	Pioneer uclear, Inc. (507 Texas (Nuclear)	11/5/75	160.00
-5686	Pioneer uc1car, Inc.	11/10/75	160.00
-5687	Pioneer Nuclear, Inc.	11/5/75	160.00
J-5688	Pioneer 1 uclear Inc.	11/10/75	160.00

LAGUNA PUEBLO LAND

Lease Number	Leasee	Date of Lease	Acreage
UL-1171	Continental Oil Co:npany	5/30/73	1,575.00
UL.1:836	Continental Oil Company	5/30/73	1,275.00
UL-1837	Continental Oil Company	5/30/73	2,560.00
UL-1838	Continental Oil Company	5/30/73	1,340.00
NQ. 8	Anaconda Company	7/26/76	320.00

Lease Number	Lessee	Lessor	Allot No.	Lease Approval Date
NOO-C-14-20				
-5651	Homestake Mining Co.	Kee Yazzie/Charlie Livingston	1382	12/17/75
-5652	Homestake Mining Co.	Mrs. Peter Livingston (or heirs)	1435	12/17/75
-5653	Homestake Mining Co.	John White (or heirs)	1395	12/17/75
-5655	Homestake Mining Co.	Esthon Yazzie (or heirs)	1389	12/17/75
-5656	Homestake Mining Co.	Tom Liviqgston	1390	12/17/75
-5657	Homestake Mining Co.	Yahnabah (or heirs)	1388	12/17/75
-5658	Homestake Mining Co.	Hoskayazzie (or heirs)	1408	12/17/75
-5659	Homestake Mining Co.	Gekensosie (or heirs)	1407	12/17/75
-5654	Homestake Mining Co.	Abraham Livingston (or heirs)	1387	03/04/76
-5644	Homestake Mining Co.	Dan Charley (aka Dan Hill)	033990	12/29/75
-5660	Homestake Mining Co.	Aheti bah (or heirs)	1406	03/29/76
-5661	Homestake Mining Co.	James Begay	1409	03/04/76
-5662	Homestake Mining Co.	Juan Delgarito	1133	12/17/75
-5663	Homestake Mining Co.	Alchehozpah (heirs)	1134	12/17/75
-5664	Homestake Mining Co.	Elthkahozpah (heirs)	1135	12/17/75
-5665	Anschutz Uranium Corp.	Kesswod (heirs)	1873	11/18/75
-5666	Anschutz Uranium Corp.	G bah (or heirs)	1179	12/11/75
-5667	Anschutz Uranium Corp.	Wilson Largo (or heirs)	1180	11/18/75
-5668	Cobb Nuclear Corp.	Barney Johnson (heirs)	042237	11/18/75
-5669	Cobb Nuclear Corp.	Ethnelewod (heirs)	042531	11/18/75
-5670	Cobb Nuclear Corp.	Bidgaha (heirs)	042241	11/18/75
-5671	Cobb Nuclear Corp.	Eskachoa (heirs)	1385	11/18/75
-5672	Cobb Nuclear Corp.	Margerit Begay (heirs)	1132	11/18/75
-5675	Phillips Uranium	Mrs. Charley Hill (heirs)	033992	10/23/75
-5676	Phillips Uranium	Esthonki (heirs)	1185	10/23/75
-5677	United Nuclear Corp.	Jennie Chavez Martinez	058072	10/10/75
-5678	United Nuclear Corp.	Alskaynaspah Martinez	058073	10/10/75
-5679	United Nuclear Corp.	Mary Charlie	058074	10/10/75
-5680	United Nuclear Corp.	Mrs. Cecil (Grace) Lewis	058075	10/10/75
-5681	G. Warnock	Walter Vandever (or heirs)	077411	10/23/75
-5682	Western Nuclear, Inc.	Hash Kalelthne ya	033989	10/29/75
-5683	Western Nuclear, Inc.	Lucy Anna (or heirs)	1182	10/29/75
-5684	Western Nuclear, Inc.	Mrs. Denet Chilly Begay (or heirs)	1184	10/29/75
-5685	Pioneer Nuclear, Inc. (50% Texas Nuclear)	Johnson Mi11er	1164	11/05/75

O-C-14-20568 TEDCO Aban. 1.5 | 3.0
D-C-14-02-8306 STATE 1\M / DATE OF INSPECTION May 1, 1985

SERIAL NUMBER OF TRACT 1	HOLDER OF PRIMARY TRACT INTEREST 2	TRACT STATUS 3	NUMBER OF INSPECTIONS 4	HOURS INSPECTION ONSITE/TOTAL 5	COMMODITY 6	TRACT TYPE 7
1			1			Lease
	TEDCO	Aban.	1	1.5 | 3.0	Uranium	Lease
	TEDCO	Aban.	1	1.0 | 1.0	Uranium	Mining Claims

MINE t--S. !uDo:E

:-?:OF: ItiSPECTION(GIECK ONE) | MHiE TECH EXhH, EA | EXPLORATION | IN.I;CTIVE 1 1 OTnER

J?OSE OF INSPECTION Final lease examination for relinquishment of leases.

.-::DESCRIPTION OF IiSPECTION See attachment.

INE KuE DESIGNATED OPERATOR
nTE ORIGINAL MINE PL SUBMITTED DATE ORIGINAL MINE PLAN APPROVED
;TE MODIFIED MINE PLb NSUBMITTED o;TE IODIFIEDMINE PLh NhPPROVED
nP?ROVED PLAN IS PENDING MODIFICATION, GIVE BRIEF DESCRIPTION OF MODIFICATION:

Z TERIGINAL EXPL. PL"!>SUBMITTED DATE ORIGINAL EXPL. PLN APPROVED
t, TEMODIFIED E>:PL.PLb. SUBMITTED DATE MODIFIED E. XPLPL. II APPROVED

iL!'INSPECTOR(S) AND TITLES(S) George R. Tetreault, Jr., Mining Engineer

;uR FACE-'hN GE!AGENCY FOR TRACT (S) Bureau of Indian Affairs

UI..£TITLE, hND OFFICE OF SMA PERSONNEL PARTICIPATING IN INSPECTION

.!._UITLE, AND OFFICE OF OSM OR REGULATORY AUTHORITY PERSONIJEL PhRTICIPATI1G IN INSPECTION
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IN REPLY REFER TO
TEDC0: . -5681

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
3550 Pan American Freeway, N.E.
P. O. Box 6770
Albuquerque, New Mexico 87107

JUL 23 1985

JUL 25 1985

RECEIVED
PROPERTY MANAGEMENT
EASTERN NAVAJO AGENCY

Memorandum

To : Area Director, Navajo Area Office, BIA

From : Area Manager, Rio Puerco Resource Area, BLM

Subject: Navajo Allotted Uranium Lease NOO-C-14-20-5681, Todilto Exploration and Development Corporation

An inspection of the subject lease was conducted May 1, 1985, and was found to be properly abandoned. Accordingly, there is no objection to the relinquishment of these leases and release of the lessee's bonded liability.

Enclosure (Inspection Report)

cc: Superintendent, ENA, BIA

FILE COPY
Surname

N vajAreaOffic
P. o. Box "W'
"Wind ow (A Z ? l d e.

ARPM/Minerals
38 b Acad m P rkw y th H. E.
Albuquerque NewMexico87109

Mr GeorgWarnock

LeaseNo. NOo -Ci-14a20-56 cateanMckinleCounty,New
M AV-1 -lasp-!-!& of t owner asnroctober23, 19_8s

Dear Mr Warnock,

reclaimea andandoeeeforeyou are released from all land assigns,
J ? ; Ut y hsdeaaeeffectiOcto r. -2-31985 ? ? ? '
Ohrndi ; elilrdhe ame efictlve

Sincerely,

/S/ Wi urD. Wi

A. tAfsnsgistant
Area Director

MineraCsrono
Navajo

Enclosure
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Uranium

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I 30ND 0. 42 · 1SJP

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

BOND TO ACCOMPANY MINING LEASES

! ! \OW ALL 71 THESE BY I ESENTS, T ... G. E. ORG. E WARNOCK

of ... } . I ? . . 9 , t 1 x ! j : 9 . . 1 ? .

as principal and f T . f 9 R I P T..
INDEMNITY COMPANY

of ... Har . . t . f (o r o n ... , a s s u r e L . Y . , a r e h e l d a n d f i r m l y b o u n d u n t o the United

States of America in the sum of ... f ! ! 9 ... @ 9 / r n l 0 C 2 0 J 9 9 ! a r i a " f u l of
the payment of which we bind ourselves, and each of us, our and each of our heirs, executors, administrators, successors and assigns, jointly and
se \ ' e r a f l i l t y · n b l y y t h e s p r e s e n t s .

S e a l e d w i t h o u r s e a l s a n d d a t e d t h i s ... ? . ! . ! " ! ... d a y o f ... t . . . - f , . 15 9 . ?

T h e c o n d i t i o n o f t h i s o b l i g a t i o n s u c h t h a t w h e r e a s t h e s a i d p r i n c i p a l a s l e s s e e e n t e r e d i n t o

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f o l l o w s] : f - i - 9 : t J 9 ! L . E) L . h J : ' i : - I r B R a g J : J r \ . ; . ' t (h . s . t . . ,

, New Mexico Principal,
Meridian, McKinley County, New Mexico

... to ...

and located on the ... Y J ... Reservation in the State of
New Mexico ... for Uranium
mining purposes for a period of J . 9 years from the < i a l e a p u b V a l t h e r e o f a n d a s m u c h l o n g e r
t h e r e a f t e r a s t h e l e a s e s h a l b l e c o n t i n u e d f o r c e n t h e r n a n n e p 1 r o v i d e d r t h e r e i n .

WHEREAS the surety hereby waiv<.S any right to notice of any modification of such lease or
obligation thereunder whether effected by extension of time for performance by, commitment of such
excepan increase or decrease in minimum royalty payment, except an increase or decrease in compensatory
lease Unit, cooperation or recommunitization royalty payment, or otherwise, this bond remain in full force and effect notwithstanding.

WHEREAS the principal and surety agree that the neglect or forbearance of the lessor-obligee
in enforcing against the lessee the payment of rent or royalty or the performance of any other cove-
nant condition or agreement of the lease shall in no way release the principal and surety, or
either of them, from any liability under this bond; and

WHEREAS the principal and surety agree that in the event of any default under such lease the
lessor-obligee may prosecute any claim against either the principal or surety without joining the other.

Now, if the said principal herein shall fully perform and discharge all the terms and conditions of the lease and all the rules and regulations which have been or may hereafter be lawfully prescribed by the Secretary of the Interior covering the said lease, then this obligation shall be null and void, otherwise to remain in full force and effect.

PROVIDED, that in event of supervision over all the lease tract which this bond applies, relinquishment by the Secretary of the Interior or lessee shall have made all payments then due under the lease and shall have fully performed all obligations in respect to the time of relinquishment of supervision, this bond shall be of no further force and effect.

The rate of premium charged on this bond is $ 0.05 (?) - the total premium paid is $ 10.09

Signed and sealed in the presence of -

WITNESSES:

Louie E. Wood

P.O. 7209 4th St. S.W., Albuquerque, N.M.

Beverly J. Lee

P.O. [illegible]

Paul C. Tagert

P.O. Albuquerque

P.O. Drawer C, Albuquerque, N.M.

P.O. [illegible]

P.O. [illegible]

P.O. [illegible]

P.O. [illegible]

P.O. [illegible]

Asto [illegible] [SEAL]

George F. Warnock, Principal

HARTFORD ACCIDENT & INDEMNITY CO.

Asto [illegible] [SEAL]

Florence S. De Vaik, Attorney-in-fact

Asto [illegible] [SEAL]

Asto [illegible] [SEAL]

*Two witnesses to each signature.

DEPARTMENT 0. THE INTERIOH
BUREAOLF INDAIFAINA IRS

OCT 2 139 7 5 19

APPROVED:

John J. Biken
ACTING ASSISTANT Area Director.

U. SCO f£RHN(HT MtiHTINC Of 1343 2 (: t911-o-o4

Repeat
10-22-75

23 C
CANCELLED: 10/23/85
Acting Assistant AREA DIRECTOR JAN. 1 4 1988

RELEASE OF URANIUM LEASE

KNOW ALL MEN BY THESE PRESENTS: That Todilto Exploration & Dev. Corp., for good and valid consideration herebrye lease, relinquish, quit claim and surrendter the lessor Brown Vandever, heirs, assigns and legal representatives, right, title and interest in and to a certain uranium mining lease, made and entered into by and between Brown Vandever, lessor, and Todilto Exploration & Development Corp., as lessee, dated the 8th day of October, 19.., insofar as same covers the following described to-wit:

Contract No. NOO-C-14-20-5681

Section 13, Township 13N, Range 11VJ, and containing 160 acres, situated in the County of McKinley and State of, said lease being recorded in the office of the Recorder of Deeds in and for said counitny, Book, Page.

Executed this 19th **day of** April, 1985.

George F. Warnock, President of
Todilto Exploration & Development Corp.

Acknowledgement for individual

STATE OF NEW MEXICO)
ss
COUNTY OF BERNALILLO)

I, Ruth E. Mitchell, a Notary Public in and for said County in the State aforesaid do hereby certify that G.F. Warnock Pres of Todilto Expl & Dev. Co. personally known to me to be the same person whose name subscribed to the foregoing instrument appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Given under my hand and seal this 19 day of April, 19

My commission expires [illegible]

Ruth E. Mitchell
Notary Public

D;VIROt.;MÆNTALYSIS

Proposed
Exploration Plan
Todilto Exploration and Development Corporation

Kavaja Allotted Lease
NOO-C-14-20-5681
McKinley County New Mexico

U. S. Geological Survey
Conservation Division
P. O. Box 1715
Carlsbad New Mexico 88220

Prepared By
Gregory Alan Edwards
Mining Engineer
June 21, 1976

Contents

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I.	Description of the Proposed Action	1
II.	Description of the Existing Environment	5
III.	Description of the Geology	6
IV.	Environmental Effects and Mitigative Measures	8
V.	Alternatives to the Proposed Action	12
VI.	Unavoidable Adverse Environmental Effects	12
VII.	Matrix Analysis	14
VIII.	Determination and Recommendation	15

Maps

A. Project Location Map
B. Lease Location Map
C. Topography Map

Appendices

A. Geologist's Memorandum Report
B. Archaeological Clearance
C. Comments from BIA
D. Relevant Correspondence

I. Description of the Proposed Action

The proposed action consists of an original exploration drilling program to explore for uranium on lands covered by one (1) Navajo Allotted Uranium Lease. The Navajo Allotted Lease covered by this plan is NOOC-14-20-5a6n8d1 is located approximately fifteen (1□) miles north-northwest of Grants, Mi ln McKinley County, New Mexico. The proposed exploration plan was submitted by Todilto Exploration and Development Corporation (TEDCO) on April 12, 1976, under the provisions of 25 CFR 177.6. The proposed action was submitted to the Bureau of Indian Affairs, Window Rock, Arizona, on May 4, 1976, for their review. Their recommendations for the protection of non-mineral resources for the reclamation of the land surface are in □?□ end Ox. No other actions by other Fe□□ral State agencies are pending.

T1.e. land covered by allotted Lease WO-C-14-20-5i6s8i1 in the N/2 of the N/2 of Section 13 in To□<1shli3p□: ort Rha,nge 1\-Jest, K.H.P.!-1 The acreage covered by lease is 2??'-"0xi:-:a<aetsely 160 T□DCO acquired the lease October 8, 1975 at the]';avAaljloottlead and Cranium mscleat Window Rock, Arizona.

The i::ne?gyearcanrdDevelo?oAdmnistra(2ERDAc)ontrols the mineral rights to the S/2 of the N/2 and t□□SE/4 of Section 13, To'.msh13iNpo rthR,ange 1 West. Tnesurface rights are held by the Kavajo Nation. TEDCO holds this property aulnedaesrfromERDA. In addition, TEDCO has leased the SW/4 of Section 13, To\msh13p NorthR,ange 1 West and the N/2 of the NW/4 of Section Tdw9nship

13 Korth, Range 10 West, from the Santa Fe Pacific Railroad Company (SFP). The locations of allotted lease-5681 and the ERDA and SFP properties are shown on Map C. TEDCO is currently mining by strip mine methods from the ERDA and SFP properties. TEDCO has received approval from ERDA for an underground mining plan \. Jhim may be in operati?nin mid-July, 1976.

The purpose of this proposed exploration plan is to find and delineate uranium ore bodies on the lands covered by allotted lease-5681. If commercial deposits of uranium ore are discovered, it would be mined concurrently with the uranium ore from the adjacent leases.

The proposed exploration plan provides for the drilling of a total of 104 holes to an average depth of 130 feet. The drilling depth could vary from twenty-five (25) feet to five hundred (500) feet. The 4 3/4 inch holes would be drilled with a rotary drill. Holes would be about five (5) inches in diameter. About one (1) in five (5) holes would be cored. Additional offset drilling is requested by TEDCO if it is necessary to delineate a particular uranium ore bodies.

The primary hosts for uranium mineralization are the Westwater Canyon Member of the Morrison Formation and the Todilto Limestone Formation. Twenty-one (21) holes would be drilled on the steep sloping flank of Haystack Mountain and would be collared in one of the members of the Morrison Formation. Due to the steep surface slope and structural relief, the members of the Harrison Formation outcrop within the lease property. Few drill holes are expected to penetrate the Westwater Canyon Member. The remainder of the holes will be in

these areas of gently sloping terrain which slopes away from the base of Haystack Mountain. These holes would be collared in either the Bluff Formation or Summerville Formation of the San Rafael Group.

Each hole would be probed by a geophysical logging truck for the length of the hole to record data relating to radioactivity and the formations encountered. The results recorded on electrical logs would be comprised of Gamma, self-potential and resistivity curves.

Two truck mounted rotary drill rigs and supporting equipment would be used to carry out the proposed drilling program. The two drill rigs would be Fayling 1000's. The supporting equipment would consist of two 2.5 ton water trucks and two pickups for use by the drilling program. Two geological field vehicles would be used in the area during the drilling program.

One new access road would be built prior to the initiation of the proposed drilling program on the steep north flank of Haystack Mountain. A new road is necessary in this area to provide access to the proposed drill sites. The access road will be eight (18) feet wide and approximately [illegible] miles long. The access road would be built using a D-7 F bulldozer.

On new roads construction will be limited for access to the proposed drill hole sites located to the west and north of Haystack Mountain. The terrain at the location of these is gently sloping. Existing roads and trails would be used wherever possible.

Few drill sites would require site preparation. Site disturbance approximately equal in area to the size of the drill rig is the only

surface disturbance expected on those sites requiring site preparation. All drill holes would be drilled using air unless circulation problems require using water and foam. For those holes requiring drilling mud, portable mud pits would be used. Therefore no dug mud pits would be required.

Total surface disturbance due to road construction is expected to involve approximately 2 3/4 acres. Approximately two (2) acres of land would be disturbed by site preparation.

Noise levels are expected to range from 75 to 90 decibels. The drilling crews will work eight hour shifts but would not be subjected to maximum noise on a continuous basis. TCDCO does not currently have ensite noise level measuring devices.

All w: : kringles s: ; able te q;o: - cly ? lu; ged ': li. t6n X 6" poined wooden plugs. The State Engineer's hole abandonment procedures will be followed upon final abandonment of the hole. All areas of surface disturbances caused by drill site and road construction or off-road usage shall be graded, contoured and revegetated.

T.DCO has had an archaeological survey performed on the lease property by Charles H. Carrod of the University of New Mexico. The survey has been reviewed and archaeological activity cleared by the National Park Service (See Appendix B). Nine (9) archeological sites were observed and marked in the field by the survey crew. No drilling operations will occur within these site areas unless mitigative measures are developed with the U.S. Park Service, Chaco Center.

All trash and debris shall be transported from the lease area and disposed of in the covered and fill dump at the Haystack Mine.

TEDCO desires to commence road construction and drilling activities concurrently around mid-June to the first of July. The exploration drilling activities are expected to take two months for completion of the initial phase. Offset drilling operations would extend this two months time period.

II. Description of the Existing Environment

The lease area is situated in the Ambrosia Lake District of the Colorado Plateau's Physiographic Plateau. The topography is precipitous with Dan cliffs forming around the bcn□he sand□esas. The rest prominent feature in the area is Haystack Mountain which was the location of the first uranium discovery in New Mexico (See Map C). 2aytsac Mouhaims a flattopped□s elongated in an east-□est Gi:ction. The highest point on 'hyastack Ho1mtain lies at an elevation of 7 8 3 feet. The terrain drops rapidly from the top of □aytsack Mountain to a elevation of around 7 0 0 feet. The terrain en the 2□ain□eof the lease property slopes generally toward the [illegible]

The lowest point on the lease property lies at an elevation about 7,100 feet. The total relief within the property is about 823 feet.

The climate in the area in which the lease property is contained is considered to be semi-arid. The average annual rainfall is about twelve (12) inches. Most of this rainfall occurs in July or August. □.; perennial streams exist within the area. Streamilm. pccur usually

for short durations only after periods of significant precipitation.

Existing vegetation in the area is typical of the semi-arid climate. It consists of sagebrush and the wildgrasses common to the area on the lower areas of the property. Native grasses are almost non existent in the area. Junipers grow on some of the higher benches and along the flank of Haystack Mountain.

The wildlife in the area consists of rabbits, rattlesnakes, lizards and other animals typical of Northwest New Mexico. An occasional coyote or bobcat may also be found on the property.

The primary existing land use is grazing. About 1/2 acre of land in the northwest corner of the leaseholds fenced off. This is the homestead of Mary V. Delgarito. According to the conditions of the lease, consent shall be obtained from the landowner prior to any drilling in the immediate area of the Delgarito homestead.

III. Description of the Geology

Figure 1 on the following page is a stratigraphic chart for the Haystack Mountain area. It shows the relative positions of all of the formations in the area. The highest stratigraphic member to be encountered is the Brushy Basin Member of the Morrison Formation. The primary hosts for uranium in this area are the Westwater Canyon Member and the Todilto Limestone Member. The formations to be penetrated are the Brushy Basin, Westwater Canyon and Recapture Members of the Morrison Formation and the Bluff Sandstone, Summerville Formation and Todilto Limestone of the San Rafael Group. The drill holes will bottom in the Entrada Sandstone.

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Jurassic	Upper		U: tOF!O!I)Y(Brsuh yBasmmbr .	Mudstnce ,silstonness .	45-010
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			Recpatumebr .	Silston e, mudstone	152-2□5
			Blufsfandstone	Sadstone	10-300
			Sumdrvliei fomatino	Slidstnce ,siltstone. shte	16-□CO
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			foor2i1o	Silts bne, s cdrs tne , rr:utdo-es. l ri: d:nse	200-537
	□ol d amp		Yesoforamt ino	Si lstone , Saiid snteo,	850-1000
			Abo	Cogl mcertae arkose ■ conglomerate s dasstne s h lae limesnte	600-650
Pennlsy vanian(?)			CNCOCHRF)IT(Y	Grnaltegnes . metarybl tle SCh i St	0-sio
Fe2mbria					

After W L Chenoweth

_Sragtripahi cchat Haystaßkuetetandvicin,intortheast
flnakoftheZumUplitf.NewMexico

Structurally the beds dip northeast at three (3) to five (5) degrees. Minor normal faults displace beds from 3 to 85 feet in the exea. rae faulting grc:d se east-he s tand nor the atsery. No geologic hazards are known or expected to exist in the exploration area.

No aquifers are ee:?-ected to exist . thin the lease property "ihc h will be penetir:aed by the drilling The \-sie Jat.er Canyon l · □ eerr: -i □ sb a potentiaal Q u fer in other areas but in this area i t outcrops all around Haystack? : otuain. Therefore l, i t t l e. tar is expected to be encountered uerdingdrilling operaitons.

IV. Environmental Effets and Mitigative Measures

The proposed drilling program's most significant m?ad on the e □ □ r c □ □ □ □ t o □ l d □ the disurbance fe the land su □ face by the ? r □ ? □ r a t ivof nC r i l sli □ e s an □ c c c e s s r e e d a n d t h e □ a s u □ a □ c □ s - t r u n t i n . o f t h e a c c □ ? G □ y i □ v e g e t a t i o n . T h e t o t e l s □ r f a □ e d i s t u r b n a c e, " h i c h w o u l d b e x p e c t e d a s a r e s u l t o f t h e p r o p e e d d r i l l i n g ? r o g r a m , i s a b o u 4 3 / 4 c r e s . □ h i s i □ c u □ e a s b c u t 2 3 / 4 c r e s □ o r r e a d construction and about 2 acres for drill site preparation.

A □ d t i i c □ a □ l a s a g □ e o t □ s e x i s i n g s u r f a c e e g e a : i 0 n c o u l □ d e s u l t from the careless burning of refuse. Possible littering could also degade the ap?ea ra □ c e o f c □ e p r o p e t y. S e r i o u s e r o s i o □ a d a □ a g a e n d p o s b l e d a □ a g e t o a r c □ e J l o □ i c a s l i t e s c o u l d s t e m f r o m i m p □ o p r e l y l o c a t e d r i l l s i t e s a n d a c e s s r o a d s.

The l o s s o r c o n t a w i n a t i o n o f g r o u n c □ t a e r c o u l d r e s u l t f r o m f a i l u r e t o p r o p e r l y c o n t r o l a n y a r t e s a i n w a t e r e n c o u n t e e d i n t h e d r i l l h o l e s P o l l u t i o n o f t h e g r o u n d □ t a e r c o u l d b e c a u s e d b y t h e

introduction of contaminating fluids and solids into the holes. Surface water pollution could result from allowing drilling mud to enter drainages.

The wildlife in the area could be displaced by disturbances caused by the drilling operations. Some air pollution could be generated by the drilling operations and related activities.

The proposed drilling program could adversely affect the lease lands as discussed above. However, these damages could be satisfactorily prevented or rectified by enforcing the applicable provisions of the lease terms and conditions as well as those provisions of the pertinent State and Federal regulations. The protection and restoration measures of the proposed exploration plan also makes adequate provisions to protect the environment.

All areas of surface disturbance will be recontoured to a condition [illegible] i: h2??rxoi=ates, as close as ?Osble, the natural conditions. Upon termination of lease operations, surface disturbances caused by drill site and road construction or off-road usage would be bladed, contoured and revegetated.

The only access road construction which would be required would be the 1 1/4 miles of new road to access the proposed drill site on the flank of Haystack Mountain. All construction would be ?=rforced in such a manner as to prevent unnecessary damage to vegetation, timber, soil, existing roads, bridges, cattleguards, fences and other improvements. It will be necessary to remove some Juniper during road construction. However, the access road will

bec□ o s eimnsucla fals o n a s t omin i m z e da□ a g e t o v e g e t a a e e a s . Roadcs t r u c t w o m b e p e r o f r □ e d o a s p t e o v e n d a n a g t e o a t e r - s h e d s o r p o l u l t o i n o f t h e w a t e r r e s o u r c e w a t e r b a r s w i l d o n b - e s t r u c t w e h d e r m e e c e a s r s y t o p r v e e n t e r o c s r i .

T h o s p e r o p o s e d i l s l i t s e w h i c w h o u l d b e a c c e s s b e y d t h e 1 1 / 4 m i l e s f n e w a c c e s r s o a d o t m h e f l a n d f E a y s t a c k u t m a i n . ; o b e d l o c a t e d r e c t o l n y t h e r o a d w . N o a d d i t i n a l s i t p e r e p a t i o o r s u r f a c d e i s t u r b a n w c o u l d b e n e c e s s a f r o y r t h e s e r i l s l i t e s .

S o m e s i t e p r e p a t i o w o u l d b e c o n d u c t e d w h e n e c e s s a o y t h e r 2 □ a i n i n g r i l s l i t e s . S i n e p o r t a b l m e u d p i s t w o u l d b e u s e d o r t h e s h e o l e w s h e r e r i l l i m u g d i s n e e d d , n o s u r f a c e s u r b a n f c e r m u d p i t s w o u l d b e r e q i r a d . F o r r n a □ o y f t h e s e r i l s l i t e s t h e s u r a c e c i s t u r b a n c w o u l d o n l y b e □ □ c □ r i l l e d o l = a n d a □ a l l a □ c a ? C 5 i b y t □ = n t y (2 0 f) e e t i n d i a e t e s r □ r r o u n d i n g t a n d : h e a c k f s c t h e d r l i l i n v g e h i c l . e T h i w o d d b e a t o t a l s u r a f c e d i t s u r □ a n o c f e a b o u t 2 / 3 a c r e f o r t h e r e m a i n h o g s e i f n o s i □ e ? r e p a r a t i o n s n e c e s s y a r S o □ e s i t e s w i l l r □ q u e i l r e e l i g a □ d ? □ 2 p a t r i a c n T h i s a d d i t i o n a s l u r f a c e i s t u r b a n a c e d i n v o l v e a b c u t 1 1 / 3 a c r e s f o r a t o t a s l u r □ a d e s u r a n c f o r s i t p e r e ? a r t a i o n o f 2 a c r s e . L e v e l i n g o f d r i l s l i t e □ s o □ l d b e □ □ □ e n l y □ □ e r n e c e s a r y

N o o p e n i r e w s o □ l d b e ? e r i t e d o □ t h e l e a s e p r o p r e t y . A l l t r a s h n d d e b r i w s o u l d b e c o l l e c t a e d t r a n s p o r t e d f r o m t h e l e a s e a r e a n d d i s p o s e f d i n t h e c o v e r e a n d i f l l d u □ a t t h e a y s t a c k } i i n e A l l a r c h a e o l o g s i i c t a e w s e r e d e n t i f □ i y e t c h e a r c h a e o l o g i c a l s u r v e c y o n d u c t a e t d T E D C O s r e q e u s t . T h e l o c a t i o n o f s t h e a c c e s s

roada: 1 proposed drill sites would be modified so as to avoid disturbing those archaeological sites. All drill sites and access roads would be bladed, contoured and reseeded where necessary to prevent erosion and restore surface vegetation.

Little or no artesian water is expected within the exploration area. Any hole which encounters artesian pressure would be plugged full depth with cement. All others would be filled with drilling mud in accordance with the State Engineer's specifications to prevent ground water contamination. In addition, the holes shall be capped at the surface with a cement plug to a minimum depth of five (5 ft). ct: : li 1 ed driller \ v: > ld. le ec is ec au t i o n w h e a drilling to avoid c : □ 2 □ ni a t □ g □ □ eh o l wci t h □. i c als 0 r s o l i □ .s Since any drilling mud which is required would be confined to the portable mud pits, little spillage is expected. Since the quantities of drilling mud losses would be small, the effects of spillage is also expected to be minimal.

The wildlife in the area should not be significantly affected by the Cole? r C O S dc c ri l ri n g p r c g a m . A d e q u a t s e u r r o □ n d i n g h a b i t a t exists for the displaced members. Any displacement of wildlife would be □ e ? o rray. The possibility of any significant amounts of air ? O l u □ i o n s r e m t e d u e t o t h e l a c k o f a n y s i z e a b l e c o n t r i b u t o r y s o u r c e s

Should the exploration plan culminate in a producing mining C ? e r a t i o n, the total impact on the environment would be temporarily increased by the surface disturbance from the mine construction

The only construction which would be necessary on the lease property would be the mine shaft and lift facilities. The ore would be stock-piled and handled at the site of the existing Haystack Mining operations. Surface disturbance and any other environmental effects such as surface subsidence, air pollution and contamination or depletion of groundwater reserves would be mitigated by preventative measures specified under an approved mining plan.

V. Alternatives to the Proposed Action

No other exploration method or modification of the proposed exploration plan would minimize or reduce the possible environmental damage. Therefore, the only alternative to the proposed action is to refuse to allow exploration activities to be conducted on the lease property.

VI. Unavoidable Adverse Environmental Effects

The only appreciable unavoidable adverse effect on the environment would be the disturbance of a portion of the leasehold surface from the construction of access roads and drill sites and the resultant destruction of any vegetation. The access road construction of 1 1/4 miles of an eighteen (18) foot wide roadway will be required on the flank of Haystack Mountain before drilling operations can commence in that area. A total of about 2 3/4 acres would be disturbed by this road construction. Construction would be carried out in such a manner as to minimize the effect on the environment and the terrain as much as possible. No site disturbance for drill site

DMO Albuquerque STATE NM DATE OF INSPECTION April 16, 1985

SERIAL NUMBER OF TRACT	HOLDER OF PRIMARY TRACT INTEREST	TRACT STATUS	NUMBER OF INSPECTIONS	HOURS OF INSPECTION ON SITE	HOURS OF INSPECTION TOTAL	COMMODITY	TRACT TYPE
COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5		COLUMN 6	COLUMN 7
NOO-C-14-20-5618	TEDCO	Aban.	1	1.5	2.5	Uranium	Lease
N00-C-14-20-8396	TED CO	Aban.	1	1.5	2.5	Uranium	Lease
Tess1-10	TEDCO	Aban.	1	1	1.0	Uranium	Mining Claims

TYPE OF INSPECTION (CHECK ONE) | | MINE EXAM | XXX | EXPLORATION | | INACTIVE | | MINE ABANDONMENT | | OTHER

PURPOSE OF INSPECTION Examination of lease to determine if reclamation for relinquishment was necessary

BRIEF DESCRIPTION OF INSPECTION See attachment.

MINE NAME

DESIGNATED OPERATOR

DATE ORIGINAL MINE PLAN SUBMITTED

DATE ORIGINAL MINE PLAN APPROVED

DATE MODIFIED MINE PLAN SUBMITTED

DATE MODIFIED MINE PLAN APPROVED

IF APPROVED PLAN IS PENDING MODIFICATION, GIVE BRIEF DESCRIPTION OF MODIFICATION:

DATE ORIGINAL EXPL. PLAN SUBMITTED

DATE ORIGINAL EXPL. PLAN APPROVED

DATE MODIFIED EXPL. PLAN SUBMITTED

DATE MODIFIED EXPL. PLAN APPROVED

BLM INSPECTOR(S) AND TITLES(S) George R. Tetreault, Jr., Mining Engineer; Brian Lloyd, Volunteer; John Andrews E.S.:

SURFACE MANAGEMENT AGENCY FOR TRACT(S) Bureau of Indian Affairs

NAME, TITLE, AND OFFICE OF SMA PERSONNEL PARTICIPATING IN INSPECTION None

NAME, TITLE, AND OFFICE OF OSM OR REGULATORY AUTHORITY PERSONNEL PARTICIPATING IN INSPECTION None

NAME, TITLE, AND OFFICE OF COMPANY REPRESENTATIVE(S) PARTICIPATING IN INSPECTION Norm Derks

HOURS OF OFFICE TIME (PRE-INSPECTION) PREPARING FOR INSPECTION 0

HOURS OF OFFICE TIME (POST-INSPECTION) REPORTING ON INSPECTION 1

TOTAL TRAVEL TIME 2.0

TOTAL OFFICE TIME 1

WAS A CONDITION OF NONCOMPLIANCE ENCOUNTERED DURING INSPECTION? | | YES | XX | NO

IF YES, PREPARE NONCOMPLIANCE REPORT

WAS AN UNDESIRABLE EVENT ENCOUNTERED DURING INSPECTION? | | YES / XX / NO

IF YES, PREPARE UNDESIRABLE EVENT REPORT

PERSON RESPONSIBLE FOR CONDUCTING INSPECTION George R. Tetreault

George R. Tetreault, Jr.

Lease 8396

All reclamation has been completed. All exploration drill sites have been reclaimed. The road constructed on Haystack Mountain was reseeded and blocked. The old Federal Mine was operated on the site prior to leasing to TEDCO. There were two open adits which TEDCO agreed to reclaim. They did an excellent job of blocking and reclaiming the two adits and should be commended. Both of the former mine sites are in the range of 100-200 uR/hr. The Southwest mine site has an allotted home on it. In the area of the two adits are hot spots in a range 200-400 uR/hr. On the site of an old ore storage pad, there is a spot measuring 480 uR/hr. On the road there are numerous hot spots between 70-010 uR/hr. In some places it looks like the company operating the mine used ore/waste to grade the roads.

Lease 5680 Claims

All reclamation has been completed. All exploration drill sites have been reclaimed. The road constructed on Haystack Mountain was reseeded and blocked.

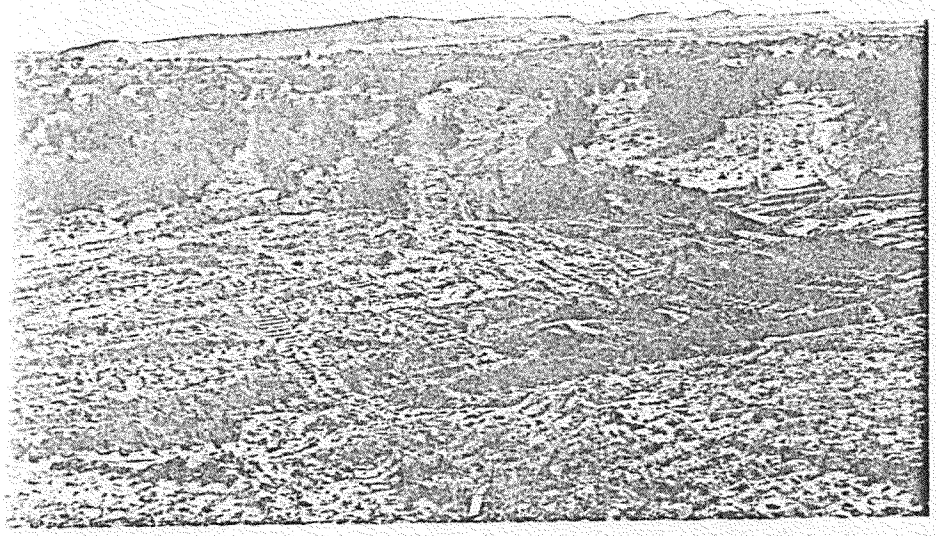
Tess 110

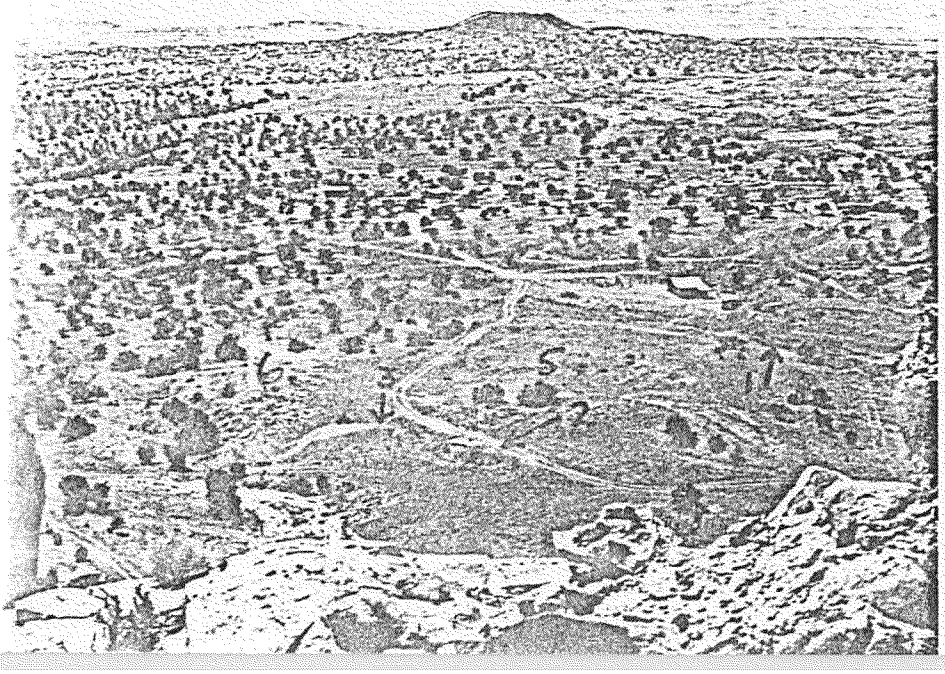
The roads constructed for exploration on these claims have been reseeded and blocked. All drill sites reclaimed.

\ I recommend release of these leases to BLM. I also recommend that the BLM have a radiation study done on Lease 8396 in order to determine what future reclamation should be done and which areas are safety hazards and should be avoided by the allottees.

Looking east across the reclaimed main adit site

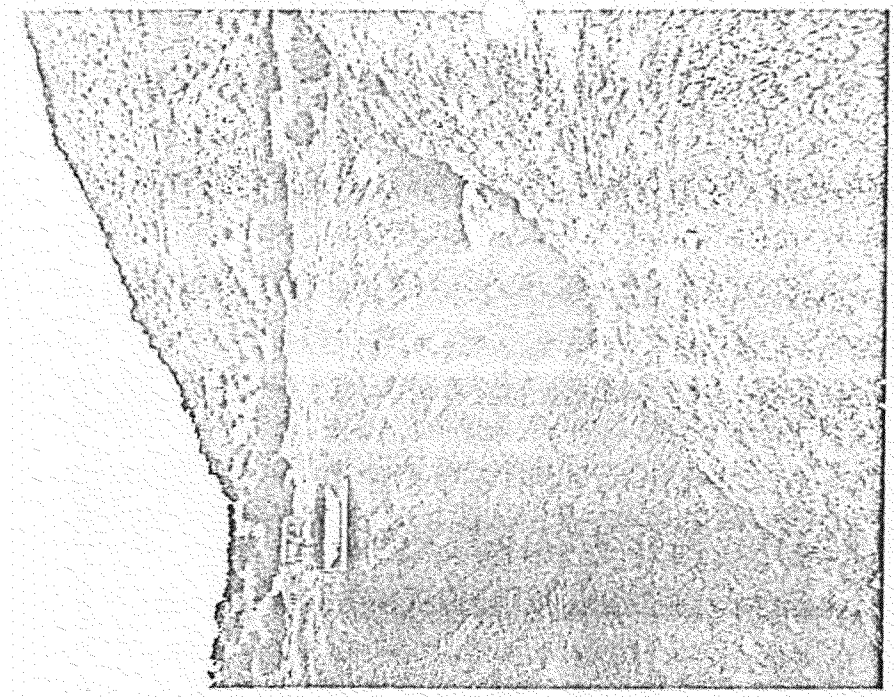
The reworked collapsed slope area





The site of the old Federal Mine:

1. Main adit 2. Orehaul adit
3. Tipel 4. Collapsed slope area
5 & 6. Old ore pad & waste areas



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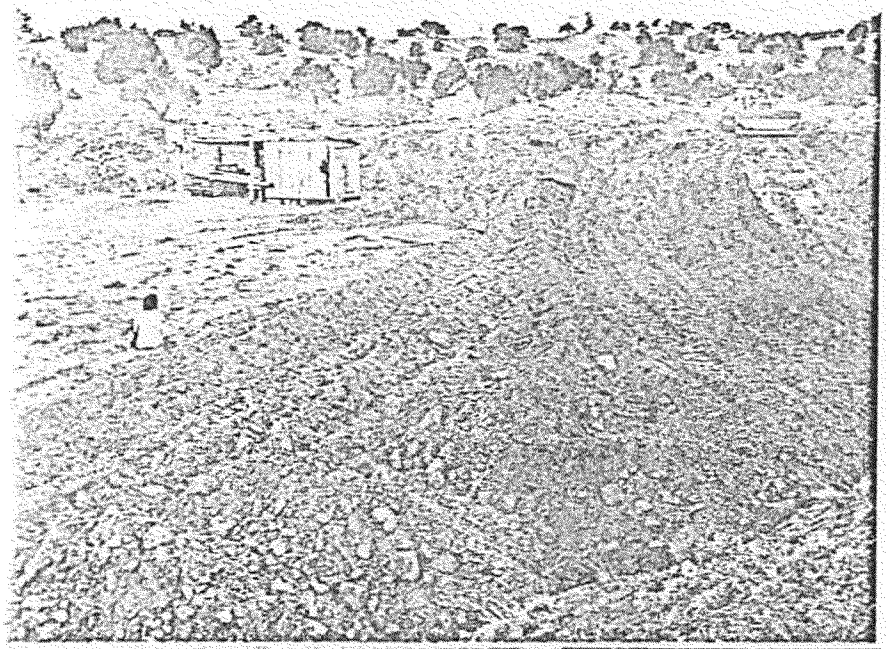
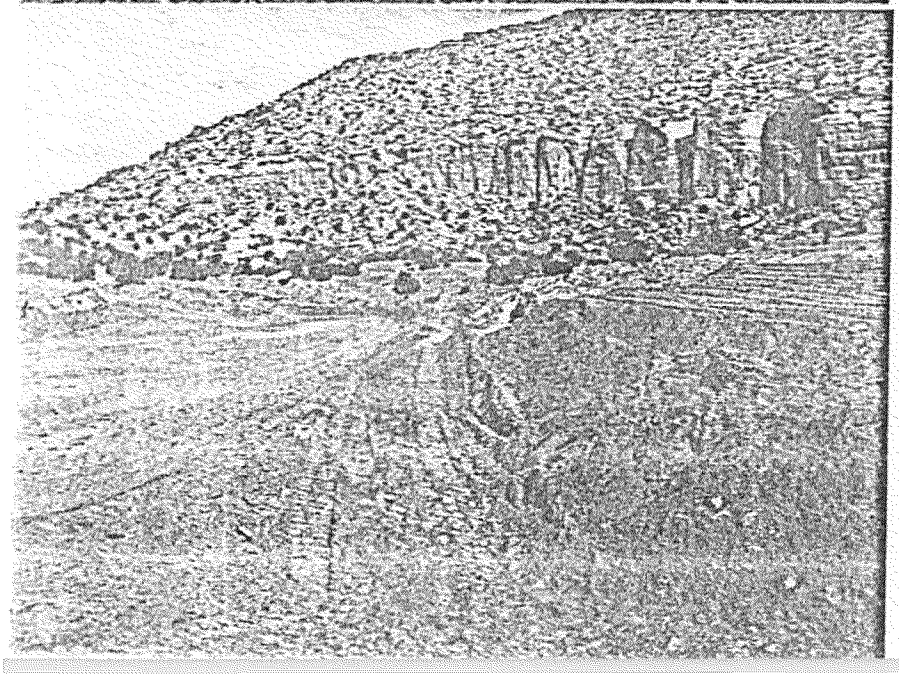


Reclamatiom t hmeainadit



Fullyreclaimeaddit

Theore haulage adit

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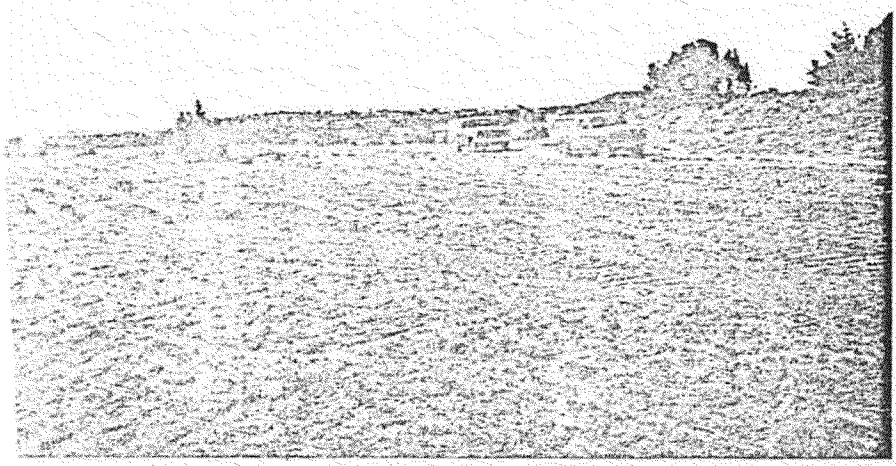


United States Department of the Interior

BUREAU OF LAND MANAGEMENT
3550 Pan American Freeway, N.E.
P.O. Box 6770
Albuquerque, New Mexico 87107

IN REPLY REFER TO
TEDC-05681

JUL 23 1985

Memorandum

To : Area Director, Navajo Area Office, BIA

From : Area Manager, Rio Puerco Resource Area, BLM

Subject : Navajo Allotted Uranium Lease No. OO-C-14-62-01-56 dated to Exploration and Development Corporation

An inspection of the subject lease was conducted May 1, 1985, and was found to be properly abandoned. According to the records, there is no objection to the relinquishment of the lease as soon as the lessee's liability

Enclosure (Inspection Report)

cc: Superintendent, ENAB, BIA

IN REPLY REFER TO
ASST.
MINERALS admin
DE COMPL.
TRANSALS
ENV. SEC.
FILE

JUL 26 1985

TODILTO

EXPLORATION AND DEVELOPMENT CORPORATION

C. WARNOCK
PRESIDENT

H. B. (CHICK) WARNOCK
SENIOR VICE PRESIDENT

V. MONDRAGON
VICE PRESIDENT/CONTROLLER

FILE

February 20, 1985

Mr. Thomas Lynch
Real Property Management
Bureau of Indian Affairs
Navajo Area Office
Window Rock, AZ 86515

RE: B. A. Lease #NOO-14-20-0681
Dear Mr. Lynch

Enclosed are the Seventh and Eighth Drilling Grants. We have decided to forward these to you because the above referenced lease.

No additional exploration work has been performed and that already reported to B. A. in our 1984 Annual Operation Report.

Sincerely,

N. J. Dicks
Exploration Manager

NJD:mb

NAVAJO AREA OFFICE
3810 A PARKWAY SOUTH N.E. ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8391

A

STATEMENT TO ACCOMPANY RELEASE

The undersigned Todlie Expl. & Dev Corp Lessee (Assignee), in a certain uranium mining lease executed by Brown Vandever, lessor, in connection with the release, relinquishment, and surrender of all right, title, and interest in and to the foregoing lease on the following described land, to wit: N½N½

of Sec. 13 T. 13N R. 1H, containing 160.00 acres more or less, hereby furnishes the following information with respect to conservation and protection of the property described therein:

1. Number of drill holes made by lessee. 105 for total of 20,404 ft.

2. (a) Have all drill holes on lands surrendered been properly plugged and abandoned, including holes drilled by lessee and holes drilled prior to acquiring lease rights, if attained by assignment? Yes

   (b) Has drilling information including a drill hole location map, been furnished to the U.S. Geological Survey? Yes

3. (a) Has the surface of the land been restored to its original condition insofar as practicable? Yes - 8,000 ft. of drill access road (257 acres) tilled & seeded; entrance roads blocked.

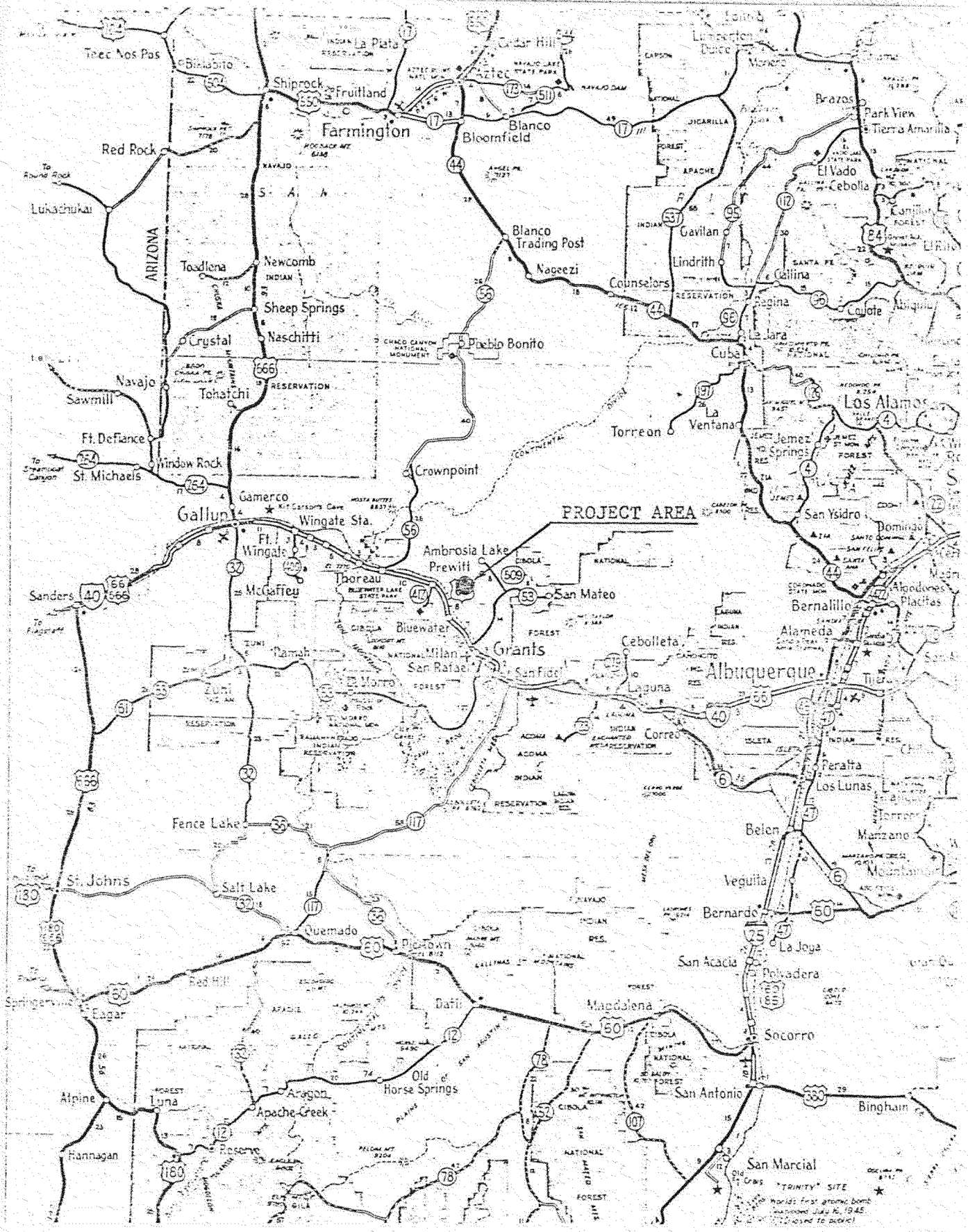
   (b) Have shaft and tunnel entrances to underground workings, if any, been sealed to the satisfaction of the U.S. Geological Survey? N/A no on lease

4. Has the lease been recorded? Yes

5. Have the lessors asserted any unliquidated or unsettled claim against the lessee or assignee so operations on the land described above? No and none pending or unsettled.

Date April 19 1985

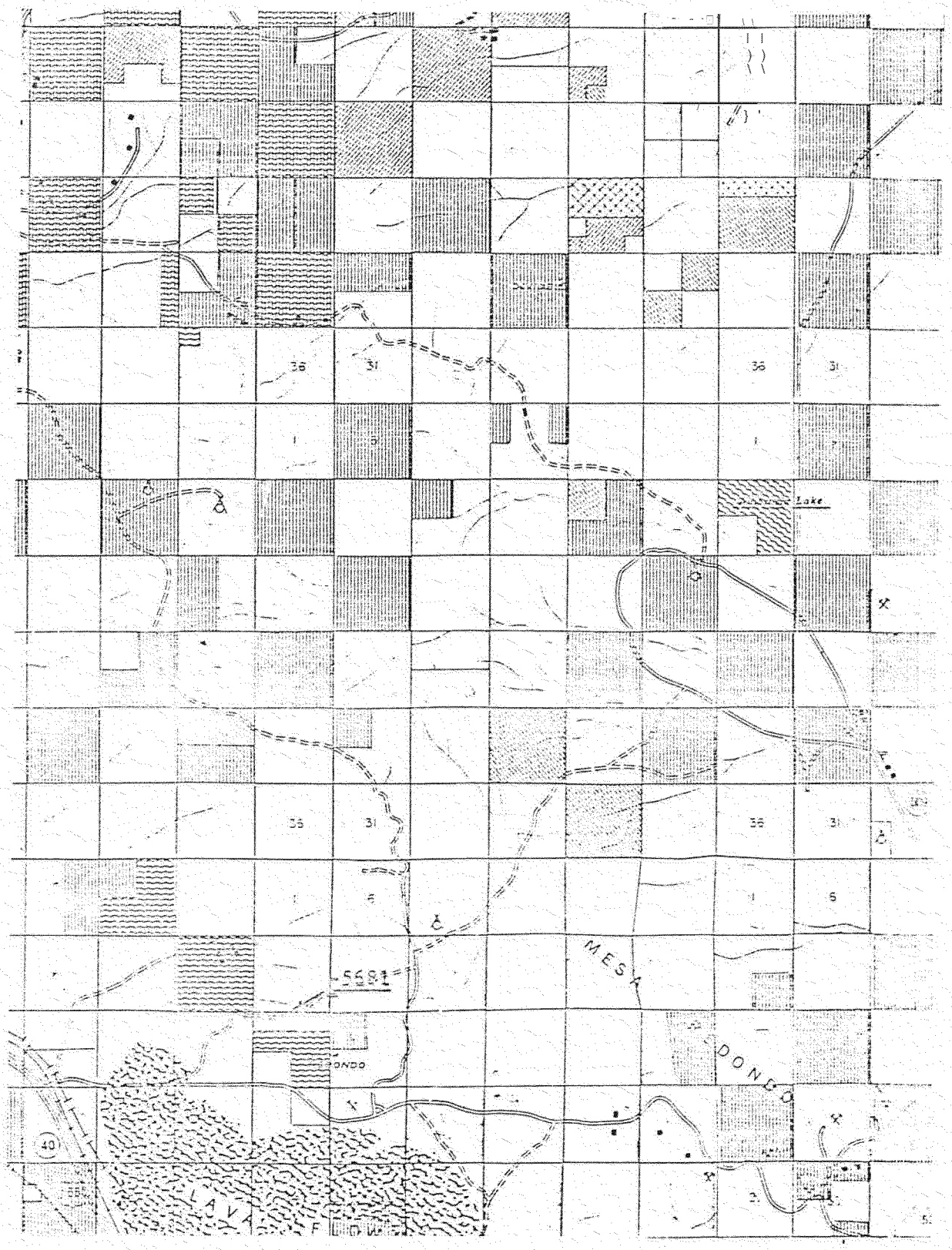
Lessee or record holder
George F. Warnock, President



MAP A

PROJECT LOCATION

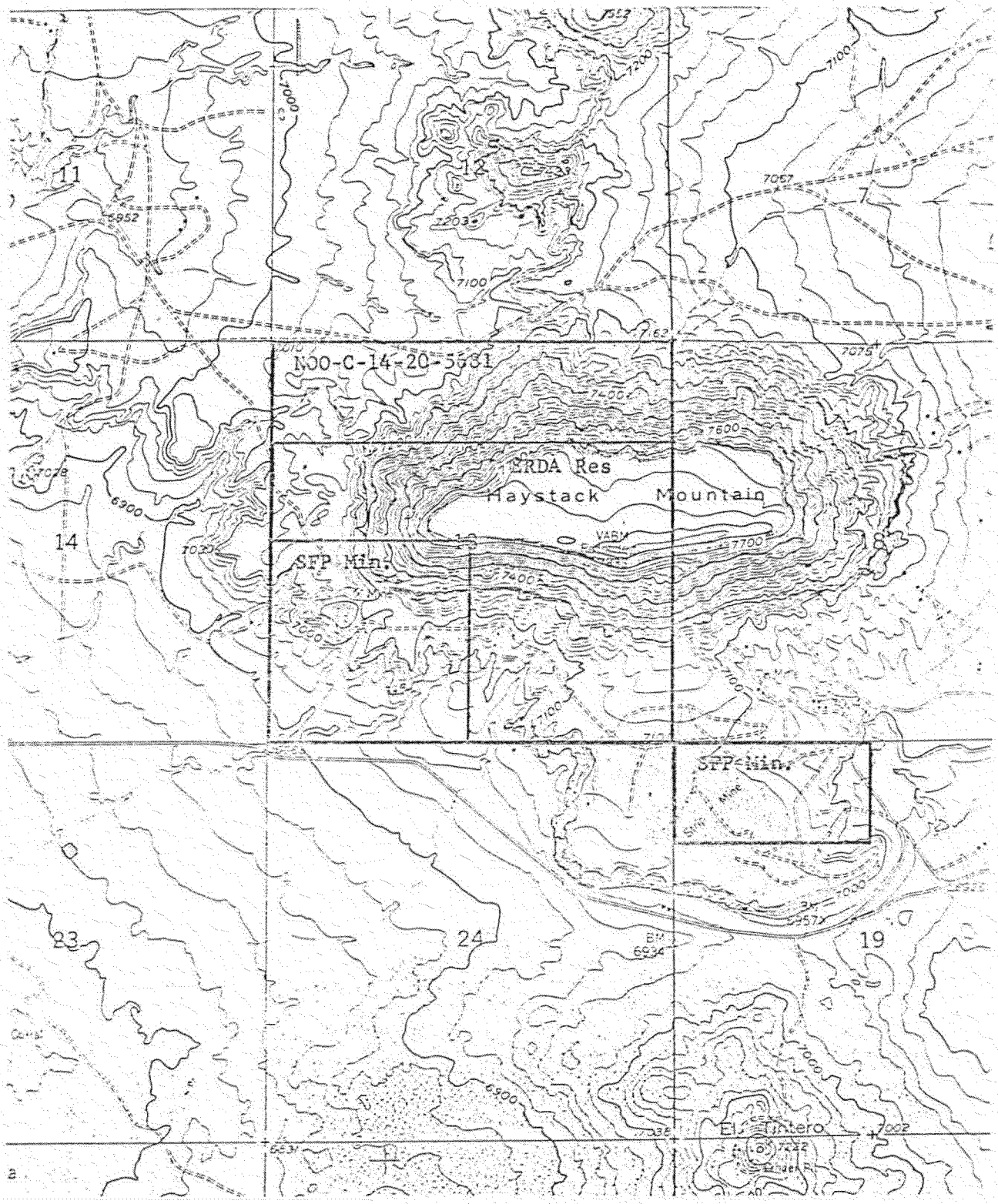
MAP B



MAP B

LEASE LOCATION P P

MAP C



MAP C

TOPOGRAPHY MAP