RYAN, ASKREN & MATHEWSON
LAWYERS
WHITE-HENRY-STUART BUILDING
SEATTLE

DMEA
Date Rec'd.
JUL 1 1955
BUREAU OF MINES
Denver, Colorado

June 28, 1955

DMEA-3870

Defense Minerals Exploration Administration
Region Three
224 New Custom House Building
Denver, Colorado

ATTENTION: Mr. A. A. Travor, Executive Officer

Re: White Canyon Joint Venture - Applicant
1616 Smith Tower, Seattle 4, Washington

COPY

142645

Gentlemen:

Pursuant to our conference on June 20, 1955, at the time when the application for a loan on behalf of White Canyon Joint Venture was filed, please find enclosed for your information, and as a further exhibit to Exhibit To Instruction 4(a), four (4) copies of twenty-four (24) additional diamond drill hole logs for the following holes: Newam 1 through 5, 14, 36, 38, 39 through 41 and 45; and AEC 1 through 4, 6 through 8 and 11 through 15. These diamond drill logs are submitted in addition to the twelve (12) drill logs submitted with the original application.

Also as you requested, please be advised that our representative to be consulted when you make the field examination of the Utah mining claims will be either Mr. Howard T. James, the managing director of the White Canyon Joint Venture, of Mr. Chris Riley, or Mr. H. A. Rose, the resident engineer, presently in Monticello. However, we request that when you desire to make a field examination that you contact this office in order that we may arrange for our representative to be present at any time which you may desire. In this regard we would appreciate your advising us as to the time you desire, either by collect telegram or a telephone call to the undersigned at MAin 1363, Seattle, Washington.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

224 New Customhouse
Denver 2, Colorado

July 1, 1955

Memorandum

To: Secretary of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3870 (Uranium)
White Canyon Joint Venture
San Juan County, Utah

Enclosed are three sets of additional data which was sent to this office from the applicant.

One copy of the data is being retained in our file.

/s/ W. M. Traver

W. M. Traver

Enclosures

c
o
p
y

We wish to thank you for your cooperation in this matter.

Very truly yours,

RYAN, ASPER & MATHESON

By
Raymond C. Swanson

RCS:ged
Enclosures

cc: Mr. H. T. James
Mr. E. D. H. Wilkinson
Mr. H. A. Rose
White Canyon Joint Venture

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. Newan 1

Location: Sun Dog 1 Sec. 18 T 35-S R 15-E Coordinates 37783N 62951W

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5084 At Bottom 4780 Total Depth 304

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 284 To 304 , AX To , EX To

Core Recovery: NX % BX 100 % AX % EX %

Date: Hole Started Oct. 3, 1954 Hole Completed Oct. 6, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma logged to 274. No significant count.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Nowam 1 DATE Nov. 18, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
284	294	10	10	100		
284	294				Siltstone, light green becoming light gray toward bottom, mottled red in bands up to 6 in. at varying intervals, occasional gray-green mudstone partings and fine gr., ss. bands. Lowest red mottling at 291 ft.	
294	304	10	10	100		
294	297				Sandstone, fine gr., light gray, finely banded with numerous dark gray mudstone partings	
297	299.9				Sandstone, fine gr., light gray, interbedded with numerous fine bands & partings of dark gray mudstone	Trc / Trs
299.9	301.2				Sandstone, med.gr., light gray, massive, white cement-clay?, occasional gray mudstone & carb. frag. with minor pyrite	Trs / Trm
301.2	302.3				Mudstone, light gray-green, massive	
302.3	304				Mudstone, red-brown, massive, some thin bands & patches of light green mudstone (leaching)	
					Note: no significant reaction to geiger throughout section.	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

[illegible]

PROJECT [illegible] AREA [illegible]

HOLE NO. [illegible]

Location: [illegible] Sec. [illegible] T [illegible] R [illegible] Coordinates [illegible]

Purpose: [illegible]

Elevation: At Collar [illegible] At Bottom [illegible] Total Depth [illegible]

Inclination: At Collar [illegible] At Bottom ..... Bearing .....

Size of Core: NX ..... To ....., BX [illegible] To [illegible], AX ..... To ....., EX ..... To .....

Core Recovery: NX ..... % BX [illegible] % AX ..... % EX ..... %

Date: Hole Started [illegible] Hole Completed [illegible]

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: [illegible]

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newan 2 DATE Nov. 19, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
245	250	5	3.8	76		
245	250				Mudstone, gray-green, friable, increasingly mottled red brown forward bottom	
250	256	6	6	100		
250	256				Mudstone, mottled, gray green & red brown in approx. equal proportion, massive	
256	266	10	9.75	97½		
256	257.4				Mudstone, mottled, gray green & red brown	
257.4	261				Sandstone, light gray, fine gr., banded by numerous fine, dark gray, mudstone partings Occasional narrow band mottled red brown where mudstone partings concentrated	Trc/Trs
261	266				Sandstone, light gray, fine to med.gr., finely banded, largely qtz., white cement - clay? some crossbedding	
266	276	10	10	100		
266	268.3				Sandstone, light gray, fine to med.gr., finely banded, largely qtz., bottom 3 in. tightly cemented - silica, a few light gray mudstone frags at 266.7	
268.3	268.8				Sandstone, light gray, fine to med. gr., and mudstone, dark gray, interfingered	Trs/Trm
268.8	269.2				Mudstone, light green, massive	
269.2	276				Mudstone, red-brown, massive, occasional thin band leached pale green, sparsely micaceous	

Note; No significant reaction on geiger throughout section.

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG
WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 3

Location: Big Rocket 1 Sec. 18 T 35-S R 15-E Coordinates 37028N 62610W

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5056 At Bottom 4781 Total Depth 275

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 215 To 275, AX To , EX To

Core Recovery: NX % BX 98 % AX % EX %

Date: Hole Started Sept. 27, 1954 Hole Completed Oct. 1, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma logged to 260 ft. Not into Shinarump.
Insignificant count above Shinarump

DIAMOND DRILL LOG

PROJECT: No Name Canyon HOLE NO. Newam 3 DATE Nov.20, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
215	225	10	9.3	93	
215	217.8				Mudstone, med.gray, massive, occasional light gray silt band & thrash frag.
217.8	220.1				Siltstone, light gray,&mudstone, med.to dark gray, interbanded, occasional carbonaceous parting, light & dark gray mudstone inclusions, & pyrite bleb (up to 1 in.)
220.1	220.9				Mudstone, med.gray, massive occasional thin band of carbonaceous fossil wood
220.9	225				Siltstone, light gray & mudstone, med.to dark gray, interbanded, occasional thrash frag.
225	235	10	9.4	94	
225	227.7				Mudstone, med.gray & siltstone, light gray, interbanded, occasional thrash frag.
227.7	231.4				Sandstone, gray, med.gr., richly cemented by white & light gray cement - clay? numerous thrash & gray mudstone inclusions, friable, occas. pyrite bleb., fine gray mudstone partings near top & botton
231.4	235				Mudstone, med.gray, massive top 2 ft. contains scattered small pyrite crysts (± 1%)
235	245	10	9.9	99	
235	238.8				Mudstone, med.gray, massive
238.8	245				Mudstone, med. to dark gray, light gray silty bands & partings in upper 2 ft. very

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 3 DATE Nov.20, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
					occasional carbon frag., neglibible pyrite
245	255	10	10	100	
245	248.3				Mudstone, med.to dark gray, light gray, silt-stone partings, occasional carb. frag.,silty toward bottom
248.3	250.6				Siltstone, light gray, dark gray mudstone partings numerous thrash fragments, sandy zones, pyrite blebs
250.6	251.2				Sandstone, light gray,fine to med.gr., very friable
251.2	255				Siltstone, light gray & lesser mudstone, dark gray interbanded, intricate banding pattern
255	265	10	10	100	
255	260.9				Mudstone, dark gray, & siltstone, light gray, banded, very occasional carb.frag.&pyrite speck Trc/Trs
260.9	265				Sandstone, light gray,fine to med.gr., white cement -clay? mudstone partings more numerous in lower 2 ft. occasional carb.frag.&light gray mudstone inclusion,bottom 6 in.strongly cemented. At 264 ft. - 2 in.band of fine cong.largely qtz. & white cement with ±5% pyrite followed by ½ in. band of thrash & pyritized wood frags. This ½ in band assays approx. 0.2% U_3O_8 (geiger)
265	275	10	10	100	
265	269.7				Sandstone, light gray almost white, qtz.

DIAMOND DRILL LOG
WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 3 DATE Nov. 20, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
					med. to cse. gr., sugary text, white cement clay? massive occasional small qtz. pebble, light green-gray mudstone inc., & thrash frag. More porous & cse. toward bottom with some interstitial pyrite	Trs Trm
269.7	270.9				Mudstone, light gray-green, massive, irregular fract.	
270.9	275				Mudstone, brown red, massive, occasional light gray green leached band & buff, fine gr., ss. band inc. brown-red mudstone frags.	
					Note: Only reaction to geiger at 264 ft. See text	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

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PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 4

Location: Big Rocket 4 Sec. 18 T 35-S R 15-E Coordinates 36718N 622497

Purpose: Evalution of Triassic Shinarump formation

Elevation: At Collar 5094 At Bottom 4799 Total Depth 295

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX 220 To 295, AX To , EX To

Core Recovery: NX % BX 87 % AX % EX %

Date: Hole Started Sept. 7, 1954 Hole Completed Sept. 15, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma logged to 280 ft. No significant count (110 cpm max.)

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newan 4 DATE Nov. 21, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
220	230	10	9.3	93	
220	230				Mudstone, light green gray to gray, massive, friable, minutely micaceous, occasional thin, light gray, silt partings
230	240	10	6	60	
230	240				Mudstone, light green-gray to gray, very friable, minutely micaceous, occasional thin light gray silty partings
240	245	5	3.2	64	
240	245				Mudstone, med. to dark gray, massive, occas. silt parting, minor thrash & pyritized wood frag.
245	255	10	7.9	79	
245	247.7				Mudstone, med. to dark gray massive
247.7	248.9				Siltstone, light gray, numerous carb. frags. pyritized wood, fossil twigs, mudstone pellets, dark gray mudstone at base
248.9	255				Siltstone, light gray, occasional carb. frag., pyritized wood frag., pyrite bleb & dark gray mudstone bands & partings
255	265	10	9.3	93	
255	263				Siltstone, light gray, massive, occasional small carb. frag. & pyrite bleb, dark gray mudstone banding forming intricate patterns
263.0	265				Siltstone, med. todark gray, massive, a few light gray mudstone pellet inclusions near bottom.

DIAMOND DRILL LOG

PROJECT: No Name Canyon HOLE NO. Newam 4 DATE Nov. 21, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
265	275	10	9.7	97	
265	271.3				Mudstone, med. to dark gray, fine gray silt banding, occasional thrash frag., becomes siltier toward bottom with intricate banded pattern Minor slip plane at 269 ft.(70°- 80°) bottom 6 in. fine gr. ss. with fairly numerous frags. of thrash & mudstone partings
271.3	272.9				Sandstone, med.gray, med.gr., tightly cemented - breaks across qtz. grains, porous, numerous rounded modules of white silt or clay, some green - gray mudstone pellet & carbon frag. inclusions
272.9	274				Sandstone, light gray, fine to med.gr., silty, dark gray mudstone banding toward base.
274	275				Sandstone, light gray, med. to cse. gr., silty, large thrash & pyritized wood frags. in top 6 in., numerous light gray mudstone pellets.
275	285	10	9.9	99	
275	275.4				Sandstone, light gray, fine to med.gr., silty, some thrash & mudstone inclusions
275.4	277.4				Mudstone, med. to dark gray, massive, a few silt lenses & carbonaceous partings
277.4	278.0				Sandstone, light gray, cse. gr., silty-white cement, large frags. of carbon partly pyritized.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newan 4 DATE Nov. 21, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
278	279.3				Mudstone, med.gray, occasional carbonaceous parting with minor pyrite	
279.3	285				Sandstone, light gray, fine gr., grades downward into a light gray siltstone, finely banded throughout by dark gray mudstone partings	
285	295	10	10	100		
285	287				Siltstone, light gray, banded, numerous mudstone partings	
287	289.4				Sandstone, light gray, fine to med.gr., silty, finely banded by gray siltstone partings	
289.4	290.5				Sandstone, med.gr., light gray almost white, crumbles readily, sugary text, largely clean qtz. grains with minor white cement, porous	Trs Trm
290.5	291.9				Mudstone, pale gray-green, massive, thin buff bands near bottom	
291.9	295				Mudstone, red-brown, massive, minutely micaceous, some pale green banding typical of Moenkopi leached zone.	
					Note: No significant reaction to geiger throughout section	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

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DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: [illegible] AREA: [illegible]

HOLE NO. [illegible]

Location: [illegible] Sec. [illegible] T [illegible] R [illegible] Coordinates [illegible]

Purpose: [illegible]

Elevation: At Collar [illegible] At Bottom [illegible] Total Depth [illegible]

Inclination: At Collar [illegible] At Bottom ..... Bearing .....

Size of Core: NX ..... To ....., BX [illegible] To [illegible], AX ..... To ....., EX ..... To .....

Core Recovery: NX ..... % BX [illegible] % AX ..... % EX ..... %

Date: Hole Started [illegible] Hole Completed [illegible]

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: [illegible]

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Nevam 5 DATE Nov. 21, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
295	305	10	10	100	
295	296.7				Siltstone & mudstone, dark gray interbanded
					scattered frags. of fossil thrash
296.7	301.0				Sandstone, light gray, med. gr., top 6 in. silty,
					sugary text, white cement - clay? friable,
					includes large frags. of thrash, mudstone seams,
					and small pyrite masses (less than 2 in.)
					particularly in bottom 1 foot.
301.0	301.4				Mudstone, dark gray, massive
301.4	304.9				Siltstone, light gray, & mudstone, med.to dark
					gray interbanded, occasional blob of pyrite
					& carbon thrash frag., bottom 1 ft. rich
					in pyrite (± 5%) & carb. frags.(less than 1 in.)
304.9	305				Sandstone, largely qtz., light gray, med. gr.,
					strongly cemented, white clay cement, gray green
					mudstone pellets inc.
305	310	5	4.2	84	
305.0	305.4				Sandstone, light gray, med.gr.,white cement,
					largely qtz., bottom ½" rich in thrash & pyrite
305.4	305.8				Siltstone, light gray, and mudstone, med. to
					dark gray, interbanded
308.8	310.0				Mudstone, med.to dark gray-green, occasional
					light gray silt band, friable, numerous thrash
					frags. with negligible pyrite in top 2 ft.
					ba rren in bottom 2 ft.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Nevam 5 DATE Nov. 21, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
310	325	15	14.4	96		
310	312.7				Mudstone, med.gray, silty in irregular lenses	
312.7	314.1				Siltstone, light gray, fine dark gray mudstone bands, intricate banding pattern in bottom 1 ft.	
314.1	316.0				Mudstone, dark gray, generally massive, occas. thin, light gray, silty banding	
316.0	317.3				Sandstone, light gray almost white, fine to med. gr., sugary text, largely qtz., with white cement - clay? occasional gray mudstone pellet & band, & pyritized wood frag.	
317.3	319.9				Mudstone, med.gray, finely banded with light gray silt, bottom 6 in. rich in thrash frags. (up to 2 in.), occas. pale green mudstone pellet	
319.9	321.3				Mudstone conglomerate, large (up to 2 in.) rounded pebbles of pale green mudstone cemented with impure ss. & gray mudstone, pebbles generally flattened ellipses lying long axis horizon in close cobble pattern	Trs / Trm
321.3	322.8				Mudstone, pale green, very friable	
322.8	325				Mudstone, red-brown, very friable, minutely micaceous, occasional thin band & patch of pale green typical of Moenkopi leaching.	
					Note: No significant reaction to geiger throughout section.	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: Mc Mano Canyon AREA: San Juan County, Utah

HOLE NO. Moran 14

Location: Big Rocket 4 Sec. 28 T 35-S R 15-E Coordinates 372023 614250

Purpose: Evaluation of Triassic Chinarump Formation

Elevation: At Collar 5131 At Bottom 4824 Total Depth 307

Inclination: At Collar Vert. At Bottom ..... Bearing .....

Size of Core: NX ..... To ....., BX 265 To 307, AX ..... To ....., EX ..... To .....

Core Recovery: NX ..... % BX 79 % AX ..... % EX ..... %

Date: Hole Started Nov. 23, 1954 Hole Completed Nov. 22, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: .....

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Nevam 14 DATE Nov. 28, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
265	272	7	5.7	81		
265	272				Siltstone, light gray, and minor mudstone dark gray, interbanded, scattered thrash frags. & pyrite (less than 1%) occasional reddish mottling	
272	277.8	5.8	3.6	62		
272	274.7				Siltstone, light gray, & mudstone, dark gray interbanded, occasional small thrash frag., slightly mottled (red) near top	
274.7	277.8				Mudstone, dark gray, massive, irreg. fracture	
277.8	283.9	6.1	4.6	75		
277.8	283.9				Siltstone, light gray, and mudstone, dark gray interbanded. Interval 279 - 280.5 red-brown mottling	
283.9	293.9	10.0	8.75	87½		
283.9	293.7				Mudstone, med.gray, numerous light gray silt bands & partings, very minor thrash & pyrite	Trc
293.7	293.9				Arkose, light gray almost white, sub. ang.qtz. grns. & small pebs., porous, white cement - clay?	Trs
293.9	302.5	8.6	7.2	84		
293.9	297.8				Sandstone, arkosic at top, light gray almost white, cse. to med. gr., qtz., sugary text, occasional thin silty band, scattered large frags. of thrash,mudstone & pyritized wood	

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newan 14 DATE Nov. 28, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
297.8	300.0				Mudstone, med.gray, massive, silty towards top	
300.0	301.3				Sandstone, light gray almost white, qtz., csc. gr., porous, white cement - clay? numerous thrash, green mud, & pyritized wood frags. Some chalcopyrite blebs at base	
301.3	301.8				Siltstone, white, massive, bottom ½ inch rich in Chalcopyrite (± 25%)	Trs
301.8	302.5				Mudstone, light gray-green, lamellar fracture, slightly reddish band near base.	Trm
302.5	307	4.5	3.3	73		
302.5	303				Mudstone, light gray-green, lamellar fracture, friable	
303	307				Mudstone, red brown, massive	
					Note: No significant reaction on geiger throughout section	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon AREA: San Juan County, Utah

HOLE NO. Kenan 36

Location: Yellow Jack 2 Sec. 18 T. 35-S R. 15-E Coordinates 35323N 62963W

Purpose: Evaluation of Triassic Chinarump formation

Elevation: At Collar 5075 At Bottom 4735 Total Depth 340

Inclination: At Collar Vert. At Bottom ..... Bearing .....

Size of Core: NX ..... To ....., BX 300 To 340, AX ..... To ....., EX ..... To .....

Core Recovery: NX ..... % BX 97.2 % AX ..... % EX ..... %

Date: Hole Started Oct. 13, 1954 Hole Completed Oct. 17, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma logged to 330 ft. No significant count

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 36 DATE Nov. 16, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
300	310	10	9.2	92	
300	310				Siltstone, med.gray and light gray, finely banded with intricate crossbedding & interfingering of bands, occasional frag. of carb. thrash.
310	320	10	9.75	97½	
310	315.8				Siltstone, gray & light gray, finely banded, coarsening toward bottom into ss. light gray, fine gr.
315.8	316.5				Mudstone, gray, hi content of light gray & dark gray mudstone pellets, carbon thrash, sand grains, and pyrite blebs (up to 1 in.)
316.5	317.3				Mudstone, slate gray, massive
317.3	318.8				Mudstone, mottled dark green & red-brown massive
318.8	320				Mudstone, gray-green, massive, siltier toward bottom with occasional carb. frag.
320	330	10	10	100	
320	324.2				Mudstone, gray-green, massive, siltier toward bottom, some thin, light gray, fine gr., ss. bands, numerous black shale partings exhibiting fossil leaf & wood fragments. At 322 ft. - 1½ in. band of carbonitized wood partly (10-15%) replaced by pyrite

At 323 ft., small bands of conglomerate, pebbles and mudstone pellets up to ½ in.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 36 DATE Nov. 16, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
324.2	328.5				Mudstone, red-brown, mottled green in part, massive, a few thin silty bands
328.5	330				Mudstone, gray-green, some silty bands, occasional carb. frag., massive
330	340	10	10	100	
330	335.5				Mudstone, gray, occasional silty bands, siltier toward bottom, 3 in. band of cong. at base with varicolored pebbles up to 1½ in.
335.5	340				Mudstone, red, micaceous on fracture, bleached pale green in bands and patches along joints and bedding planes.
					Note: No significant reaction on geiger throughout section. Shinarump not represented.

Trc
Trm

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. Newan 38

Location: Yellow Jack 2 Sec. 18 T 35-S R 15-E Coordinates 35908N 63519W

Purpose: Evaluation of Triassic Shinarump Formation

Elevation: At Collar 5027 At Bottom 4737 Total Depth 290

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX 225 To 290 , AX To , EX To

Core Recovery: NX % BX 96½ % AX % EX %

Date: Hole Started Oct. 6, 1954 Hole Complete October 14, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma logged to 289. No significant count.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newan 38 DATE Nov. 17, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
225	235	10	9.7	97	
225	231.7				Mudstone, med. & light gray, massive, light gray siltstone bands toward bottom, very occasional speck of pyrite & small carbon frag.
231.7	233.8				Sandstone, light gray, med.grain, white cement - clay?, includes numerous frags. of mudstone & thrash, disseminated pyrite & pyrite blebs (± 5%), mudstone partings
233.8	235				Mudstone, med.gray, massive
235	245	10	9.9	99	
235	235.3				Mudstone, med.gray, massive
235.3	243.5				Siltstone, light gray, almost white, massive, 2 in. dark gray mudstone band at 237, occasional small fragment of carbon thrash.
243.5	245				Mudstone, banded, dark & light gray, silty & sandy lenses, includes carbon frags., pyrite blebs less than 5%
245	255	10	9.9	99	
245	255				Siltstone, med. & light gray, massive interbedded gray & light gray mudstone bands, occasional carb. frag. becoming more numerous toward bottom
255	265	10	9.9	99	
255	256.4				Siltstone, light & med.gray, banded, numerous partings of carbon thrash & pyritized.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 38 DATE Nov. 17, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
					wood fragments, sandy toward bottom	
256.4	258.3				Sandstone, qtz., light gray, fine to cse.grain, white cement - clay? numerous frags. of thrash & pyritized wood, mudstone inclusions up to 1½ in.	
258.3	263.3				Siltstone, light gray, fine dark gray mudstone bands & partings more numerous toward bottom	
263.3	265				Mudstone, med.gray, massive	
265	275	10	9.4	94		
265	267				Mudstone, med. & dark gray massive	Trc / Trs
267	275				Sandstone, light gray almost white, med.gr., sugary text, massive, qtz.	
275	290	15	13.8	92		
275	279.8				Sandstone, light gray almost white, med. gr., sugary text, more tightly cemented toward base.	
279.8	285				Mudstone, gray, massive. At 283.4 to 285 - band of coarse material cemented by mudstone - fragments of green mudstone, pyritized wood, carbon thrash, some sand grains	Trs / Trm
285	290				Mudstone, brown-red, massive	
					Note: No significant reaction on geiger throughout section	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 39

Location: Yellow Jack 2 Sec. 18 T 35-S R 15-E Coordinates 36071N 638507

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5004 At Bottom 4734 Total Depth 270

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 220 To 270 AX To , EX To

Core Recovery: NX % BX 88 % AX % EX %

Date: Hole Started Oct. 15, 1954 Hole Completed Oct. 20, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma logged to 223 . No significant count. Not into Shinarump.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Nevam 39 DATE Nov. 18, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
220	230	10	10	100	
220	223				Mudstone, med. to dark gray, upper 1½ ft. includes numerous carbon fragments, light gray silt lenses, gray-green mudstone fragments, minor pyrite
223	229.5				Siltstone, light gray, massive, occasional carb. frag. Interval 228-229 rich in thrash & pyritized wood fragments.
229.5	230				Sandstone, light gray, fine to med. gr. massive
230	235	5	5	100	
230	234.1				Sandstone, light gray, fine to med. gr., massive, silty toward botton
234.1	235				Siltstone, light gray, very friable, high content (90%) green mudstone frags., sand lenses & thrash
235	240	5	5	100	
235	240				Mudstone, green-gray, massive, reddish mottling or alteration discoloration - up to 5%
240	250	10	8	80	
240	247.5				Mudstone, green-gray massive, reddish mottling (± 5%)
247.5	250				Sandstone, light gray, fine gr., massive, occasional dark gray mudstone parting

DIAMOND DRILL LOG

WHITE CANYON MOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 39 DATE Nov. 18, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
250	260	10	10	100		
250	252.1				Sandstone, light gray, fine to med. gr., massive, white cement - clay?	
252.1	252.8				Siltstone, med. gray, gray-green mudstone partings	
252.8	255.6				Sandstone, light gray, fine to med. gr., occasional dark gray mudstone parting and inclusion	
255.6	256.2				Sandstone, med. gray, banded with num. fine dark gray mudstone partings, minor pyrite less than 10%	Trc
256.2	257.1				Sandstone, light gray almost white, fine to med. gr., white cement - clay? massive	Trs
257.1	260				Sandstone, light gray almost white, med to cse. gr., sugary text, porous, massive, some white cement.	
260	270	10	5.8	58		
260	268.6				Sandstone, light gray, med. to cse. gr., friable, sugary text, white cement-clay? arkosic interval 266.3 - 267.3 including cse. grains of pink qtz., feldspar, frags. of mudstone. A few frags. of thrash at base	Trs
268.6	269.6				Mudstone, light green, massive	Trm
269.6	270				Mudstone, red-brown, massive	

Note: no significant reaction on geiger throughout section.

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

PROJECT [illegible] AREA [illegible]

HOLE NO. [illegible]

Location: [illegible] Sec. [illegible] T [illegible] R [illegible] Coordinates [illegible]

Purpose: [illegible]

Elevation: At Collar [illegible] At Bottom [illegible] Total Depth [illegible]

Inclination: At Collar [illegible] At Bottom ..... Bearing .....

Size of Core: NX ..... To ....., BX [illegible] To [illegible] AX ..... To ....., EX ..... To .....

Core Recovery: NX ..... % BX [illegible] % AX ..... % EX ..... %

Date: Hole Started [illegible] Hole Completed [illegible]

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: .....

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. No. 40 DATE Nov. 16, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
235	242	7	7	100	
235	241.4				Siltstone, light gray, massive, occasional light gray, thin, ss. lenses, very occasional frag. of carbon at top but more numerous toward bottom - up to 1½"
241.4	242				Mudstone, dark gray & light gray mixed, numerous carb. frags., mudstone pellets, and sand grains
242	252	10.0	7.0	70	
242	243.4				Mudstone, dark gray, massive, sand grains and occasional carb. frags. toward bottom
243.4	249.8				Siltstone, brown-red, about 10-20% mottled gray-green fine grain, massive
249.8	251.1				Siltstone, gray, massive
251.1	252.0				Sandstone, light gray, med. gr., sugary text massive, some gray-green shale partings toward top
252	255	3.0	3.0	100	
252	255				Sandstone, light gray almost white, med.gr., sugary text, qtz., massive, occasional thin band of dark gray silty mudstone near top
255	265	10	9.75	97½	
255	258.9				Sandstone, light gray, white cement (clay?) med. gr., sugary text, crumbling readily, porous

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newan 40 DATE Nov. 16, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
					arkosic toward bottom with occasional
					carb. fragments
258.9	260				mudstone, gray-green, massive
260.0	265.0				mudstone, brown-red, massive, slightly
					micaceous on partings
					Note: No significant reaction on geiger
					throughout section

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

(White Canyon Joint Venture)

PROJECT: [illegible] Canyon AREA: San Juan County, Utah

HOLE NO.: Hole 61

Location: Unit 6 Sec. 27 T. 36-S R. 19-E Coordinates: [illegible]

Purpose: Evaluation of Triassic Uranium Deposition

Elevation: At Collar 5420 At Bottom 5221.5 Total Depth 198.5

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 4.75 To 198.5 AX To , EX To

Core Recovery: NX % BX % AX % EX %

Date: Hole Started Oct. 29, 1956 Hole Completed Nov. 6, 1956

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Caved 10' to 25 ft. - hole caved

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 41 DATE Nov. 11, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
475	484	9.0	8.4	93		
475	476.8				Siltstone, dark grey, numerous fine bands & frags. of carbonaceous material, some pyrite blebs (up to ½")	
476.8	484				Mudstone, grey, siltier toward bottom, occasional thin white ss. bands, pyrite & carbon content very low	
484	494	10.0	10.0	100		
484	486				Mudstone & siltstone, dark grey, white ss. bands near bottom	Trc
486	492.7				Sandstone, white, med. grain, qtz. sub. ang. grains, white clay? cement, occasional carbonaceous partings	Trs
492.7	494				Arkose or fine conglom., white, contains numerous mudstone frags. (up to ½") predom. qtz., occasional jasper grains, carbon cont. insignificant. At 492.7 - ½" band of carbonaceousmaterial approx. 0.1% U_3O_8	
494	498.5	4.5	4.5	100		
494	496.6				Mudstone, green-gray and buff finely banded	Trs
496.6	497.5				Siltstone, alternating green-gray & pink, micaceous partings	Trm
497.5	498.5				Sandstone, pink, fine grain, occasional micaceous parting	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT Lo Hare Canyon AREA San Juan County, Utah

HOLE NO. Lemon 45

Location: Yellow Jack 1 Sec. 18 T 35-S R 15-E Coordinates 364617 631247

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5032 At Bottom 4756 Total Depth 276

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 255 To 276 , AX To , EX To

Core Recovery: NX % BX 97 % AX % EX %

Date: Hole Started Nov. 22, 1954 Hole Completed Dec. 8, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. Newam 45 DATE Dec.9,1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
255.0	258.0	3	3	100		
255.0	258.0				Mudstone, med.to dark gray, massive friable	
258.0	266.0	8	8	100		
258.0	262.5				Mudstone, med. to dark gray, massive	
262.5	264.8				Mudstone, dark gray, friable, scattered small thrash frags.	Trc / Trs
264.8	266				Sandstone, light gray almost white, fine to med. gr. in bands, sugary text, a few fine discontinuous carbonaceous partings	
266	276	10	9.4	94		
266	267.8				Sandstone, light gray almost white, med. gr. sugary text, porous, very minor thrash & pyrite, numerous fine carbonaceous partings	Trs / Trm
267.8	269.3				Mudstone, gray-green, and siltstone, buff, interbanded	
269.3	276				Mudstone, brown-red, micaceous, lamellar parting	
					Note: no significant reaction to geiger throughout section	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

[illegible]

PROJECT [illegible] AREA [illegible]

HOLE NO. [illegible]

Location: [illegible] Sec. [illegible] T [illegible] R [illegible] Coordinates [illegible]

Purpose:

Elevation: At Collar [illegible] At Bottom [illegible] Total Depth [illegible]

Inclination: At Collar [illegible] At Bottom Bearing

Size of Core: NX To , BX [illegible] To [illegible] , AX To , EX To

Core Recovery: NX % BX [illegible] % AX % EX %

Date: Hole Started [illegible] Hole Completed [illegible]

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: [illegible] - can not be packed

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 1 DATE August 12,1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
260.0	270.0	10.0	6.1	61	siltstone, gray to dark gray, interbedded sandstone (medium grained) 260.0-261.5, C^{1-2}, 1.5x background count, pyrite 1% ± siltstone sandy in part, banded, limey cement.	Trc
270.0	280.0	10.0	10.0	100		
270.0	273.5				sandy mudstone, gray to dark gray, sandstone 272-273, C^2, 1.5-2x background count, pyrite 1-2% (blebs in part), banded.	
273.5	280.0				siltstone, gray to light gray, sandy 278-280, C^{1-2} (blebs in part), pyrite 1% ±, banded, 1.5x background count.	
280.0	290.0	10.0	9.0	90	sandstone (fine-medium grained), gray, some interbedded siltstone, $C^{1-1.5}$ (abundant 282.5), 1.5-2x background count, pyrite 1% ± banded.	
290.0	295.0	5	5	100		
290.0	293.5				sandstone, gray to light gray, fine to coarse grained, interbedded mudstone 290.5-293.5, 1 to 1.5x background count, pyrite 0.5-1% banded	Trc/Trs
293.5	295.0				sandstone, gray to light gray, fine to coarse grained, 1 to 1.5x background count, pyrite 0.5 - 1% banded	
295.0	305.0	10.0	10.0	100		
295.0	302.0				sandstone, light gray, fine grained, interbedded mudstone seams to ½", 1 to 1.5x background count pyrite 0.5-1.0%, banded	Trs

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 1 DATE August 12, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	Trs / Trm
302.0	305.0				mudstone, gray to red, leached to 304', micaceous massive.	
					Notes: $C^0 - C^4$ gives the relative carbon content 0 to 35%.	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: Mo Mine Canyon AREA: San Juan County, Utah

HOLE NO. A.E.C. 2

Location: Sun Dog 4 Sec. 10 T 35-S R 15-E Coordinates 750500 562090

Purpose:

Elevation: At Collar 5126.2 At Bottom 4826.2 Total Depth 306

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX 280 To 306 , AX To , EX To

Core Recovery: NX % BX 91 % AX % EX %

Date: Hole Started July 20, 1954 Hole Completed July 24, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Probed to 274' by satisfilonator - no significant c.p.s. noted.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 2 DATE August 12-54

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
280	292	12	10.1	84	Chinle ss, fine grained, gray to chocolate, interbedded red mudstone at 282.5-285.5, 286.5, and 292, 1 plus X background, C^{0-1} (C^2 at 282), pyrite plus%, banded, massive, cement limey	
292	302	10	9.5	95		
292	296.1				ss, fine grained, red to gray, interbedded red mudstone to 294, C^0, pyrite plus %, banded 1 plus X background	Trc
296.1	302				ss, fine to medium grained, gray, occasional mudstone seams to ½", C^0, pyrite 0.5%, 1 plus X background massive to banded, cement limey.	Trs
302	306	4	4	100		
302	303				ss, see description above	Trs
303	306				mudstone, green to chocolate, leached 303 to 304 and 304.5 to 305, micaceous, some edgewise cgl, massive	Trn

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon AREA: San Juan County, Utah

HOLE NO. A.E.C. 3

Location: Big Pocket #2 Sec. 10 T 35-S R 15-E Coordinates 138000 131000

Purpose:

Elevation: At Collar 5223.0 At Bottom 4921.0 Total Depth 312

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX 255 To 322, AX To , EX To

Core Recovery: NX % BX 90 % AX % EX %

Date: Hole Started July 22, 1954 Hole Completed July 26, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Probed to 195' by scintillometer - no significant c.p.s. noted.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 3 DATE August 12,1954

FROM	TO	INT.	RECOVERED FT.	%	DESCRIPTION	
255.0	265.0	10.0	10.0	100	sandy siltstone, gray to dark gray, shaly in part, C^{0-1}, pyrite ± 1 to 1.5x background count banded.	Trc
265.0	275.0	10.0	10.0	100		
265.0	267.0				sandstone, medium grained, gray, C^{2-3}, pyrite 2% ± 1.5x background count, massive, limey cement	
267.0	269.5				silty sandstone, gray, interbedded siltstone and mudstone, C^{1-2}, pyrite 1% ± 1.5x background count, massive in part.	
269.5	272.5				sandstone, gray, interbedded siltstone, C^{2-3}, (1 to 1" pieces), pyrite 2-3% ± 1.5x background count, massive, limey cement.	
272.5	275.0				sandy siltstone, gray, interbedded mudstone, C^{1-2}, pyrite 1% ± 1.5x background count, massive, limey cement in part	
275.0	285.0	10.0	9.0	90		
275.0	281.0				mudstone, dark gray, in part sandy, lenses of siltstone, C plus, pyrite ½% ± 1.5 background count, massive	Trc / Trs
281.0	285.0				sandstone, light gray, interbedded mudstone 282-285, C^{0-1}, pyrite 0.5% ±massive, limey cement.	
285.0	295.0	10.0	10.0	100		

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 3 DATE August 12, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
285.0	293.0				sandstone, coarse to medium grained, light gray $C^{0-1.5}$, pyrite 0.5-1% ± concentration of C and chalcopyrite (5% ±) from 282.5 - 283.0, 1.5x background count, limey cement	Trs
293.0	295.0				silty sandstone, gray, C^{1}, pyrite 1% ± 1.5x background count, banded, limey cement in part.	
295.0	302.0	7.0	7.0	100		
295.0	297.0				siltstone, gray to brown, sandy, interbedded mudstone, C^{1}, pyrite 0.5-1% 1.5x background count	
297.0	302.0				shaly mudstone, gray to chocolate, banded gray and chocolate bands - gray bands appear leached micaceous	Trs / Trm
302.0	312.0	10.0	10.0	100	shaly mudstone, gray to chocolate, micaceous, massive to laminated	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. A.E.C. 4

Location: Big Rocket 2 Sec. 18 T 35-S R 15-E Coordinates N37900 W61570

Purpose:

Elevation: At Collar 5113.7 At Bottom 4833.7 Total Depth 280

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 240 To 280, AX To , EX To

Core Recovery: NX % BX 99 % AX % EX %

Date: Hole Started July 24, 1954 Hole Completed July 27, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Hole caved - not probed

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 4 DATE August 12/54

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
240.0	250.0	10.0	10.0	100		Trc
240.0	242.0				mudstone, dark gray, sandy, C^{1-2}, pyrite 1% ± 1.5x background count, massive to banded.	
242.0	245.0				silty sandstone, fine grained, gray, C^{0-1}, pyrite plus, 1.5x background count, banded	
245.0	250.0				silty mudstone, gray sandy in part, C^{2}(concent. from 248.5-249.5), pyrite 0.5% ± 1 to 1.5x background count.	
250.0	260.0	10.0	10.0	100	silty sandstone, medium to fine grained, dark gray, C^{1-2}, pyrite 0.5% ± 1.5 to 2x background count, massive to banded.	
260.0	270.0	10.0	10.0	100		
260.0	261.0				mudstone, dark gray, sandy C^{1}, pyrite plus, 1.5x background count, massive	Trc/Trs
261.0	270.0				sandstone, coarse to fine, light gray, C plus, pyrite plus, 1.5x background count, massive	
270.0	280.0	10.0	9.5	95		
270.0	274.0				sandstone, coarse to fine, gray, C^{1}, pyrite 0.5% ± 1.5x background count, massive	Trs/Trm
274.0	280.0				Shale, green to gray, leached to 275.5, cross-bedded and laminated, micaceous	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: Lo Hono Canyon AREA: San Juan County, Utah

HOLE NO. A.J.C. 6

Location: Big Rocks #2 Sec. 14 T 39-1 R 15-2 Coordinates 10000 10030

Purpose:

Elevation: At Collar 5133.4 At Bottom 4948.4 Total Depth 285

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX ___ To ___, BX 255 To 285, AX ___ To ___, EX ___ To ___

Core Recovery: NX ___ % BX 100 % AX ___ % EX ___ %

Date: Hole Started July 27, 1954 Hole Completed July 29, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Probed to 195' by scintillometer - no significant c.p.s. noted.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 6 DATE August 12, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
255.0	265.0	10.0	10.0	100		Trc
255.0	257.0				mudstone, dark gray, interbedded lenses of sand stone and siltstone, C^{0-1}, pyrite 0.5-1% ± (blebs and spotty), 1.5x background count, massive.	
257.0	258.5				sandstone, medium grained, light gray, C^{2-3} pyrite 1-2%, 1 to 1.5x background count, massive	
258.5	265.0				silty sandstone, gray, C^{0-1}, pyrite plus, 1.5x background count, banded	
265.0	275.0	10.0	10.0	100		
265.0	265.5				silty sandstone (see above description)	Trc
265.5	275.0				sandstone, medium grained, gray, C^{0-1}, pyrite 0.5% ± 1 to 2x background count, massive, limey cement.	Trs
275.0	285.0	10.0	10.0	100		
275.0	279.0				sandstone(pebbly at base & see above descript.)	Trs
279.0	285.0				shaly mudstone, gray to chocolate, weathered to 280.5, micaceous, some edgewise conglomerate	Trm

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon AREA: San Juan County, Utah

HOLE NO. A.B.C. 7

Location: Dig Project 25 Sec. 27 T 35-S R 15-E Coordinates N37500 W6130

Purpose:

Elevation: At Collar 5260.8 At Bottom 4874.8 Total Depth 386

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 300 To 386, AX To , EX To

Core Recovery: NX % BX 97 % AX % EX %

Date: Hole Started July 28, 1954 Hole Completed August 5, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Probed to 386.5 by scintillometer - no significant c.p.s. noted.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 7 DATE August 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
300.0	310.0	10.0	4.0	40	mudstone, gray, weathered	Trc
310.0	320.0	10.0	10.0	100		
310.0	317.5				shale, red to gray, decomposed	
317.5	320.0				siltstone, dark gray, C^1, pyrite 0.5% ± 1.5x background count, massive.	
320.0	330.0	10.0	10.0	100	sandy siltstone, gray, interbedded mudstone, C^{0-1} (325-325.5 $C^{2.5-3}$), pyrite 0.5% (325-325.5, py.5%) 1.5x background count, banded.	
330.0	340.0	10.0	10.0	100		
330.0	334.0				sandy siltstone, gray, interbedded mudstone seams, C^1(concentrations of C@ 333-C^3), pyrite 0.5%(concentration at 333), massive, 1.5x background count.	
334.0	336.0				sandstone(conglomerate in part) gray to light gray, $C^{1.5-2}$, pyrite 0.5-1% ± massive, 1.5x bc.	
336.0	340.0				siltstone, gray, interbedded mudstone seams, C^1 pyrite 0.5-1% ± 1x background count, banded	
340.0	350.0	10.0	10.0	100	sandy siltstone, gray C^{0-1}, pyrite plus, cross-bedding extensive locally, 1 to 1.5x background count banded.	
350.0	360.0	10.0	10.0	100		
350.0	357.0				sandy siltstone, gray, interbedded sandstone @ 351.0-351.5, 352.5-353.5, 355.5-356.0, C^{0-1}, pyrite 1% ± 1 to 1.5x background count, banded C and pyrite concentrated @ 352.5-355.0.	

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 7 DATE August 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
350.0	360.0	10.0	10.0	100	mudstone, gray, decomposed, 1 to 1.5x background count, locally red oxides.	Trc
360.0	360.0	10.0	10.0	100		
360.0	360.5				mudstone, gray to green, decomposed, 1x background count	
360.5	360.0				silty sandstone, gray, conglomerate at base, $C^{0-0.5}$ (bleb @ 370), pyrite plus, 1x background count bedded or banded, limey in part	
370.0	380.0	10.0	10.0	100		
370.0	371.0				conglomerate, light gray, C^{1}, pyrite 0.5 to 1% ± 1x background count, limey cement	
371.0	379.7				sandy mudstone, gray, C^{1}, pyrite 1% ± 1.5x background count, massive and banded, sandy in part	Trc/Trs
379.7	380.0				conglomerate, light gray, $C^{0.5}$, pyrite 0.5% ± 1.5x background count, calcareous cement.	
380.0	386.0	6.0	6.0	100		
380.0	380.5				conglomerate (see above description)	
380.5	386.0				mudstone, gray to chocolate, pyritic 6" below contact, massive, micaceous	Trs/Trm

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. A.E.C. 8

Location: Big Rocket 3 Sec. 18 T 35-S R 15-E Coordinates N37660 W61370

Purpose:

Elevation: At Collar 5111.3 At Bottom 4841.3 Total Depth 270

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX 265 To 270, BX 245 To 265, AX To, EX To

Core Recovery: NX 100 % BX 75 % AX % EX %

Date: Hole Started August 3, 1954 Hole Completed August 7, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Probed to 252' by scintillometer - @ 249' 770 c.p.s. through an interval of 1' plus.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. A.E.C. 8 DATE August 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
245.0	255.0	10.0	10.0	100		
245.0	249.5				sandy mudstone, gray, C^1, pyrite plus, 1 to 0.5x background count, massive.	
249.5	254.0				silty sandstone, gray, C^{0-1}(@ 250 concentration of pyrite and C), pyrite 0.5-5%, 1.5x background count	Trc
254.0	255.0				sandstone, light gray, medium to coarse grained C^0, pyrite? 1x background count, massive, limey cement.	Trs
255.0	265.0	10.0	5.0	50		
255.0	264.5				sandstone (see above description)	
264.5	265.0				sandstone, gray, coarse grained, C^{1-1}, pyrite plus, 1.5x background count, limey cement	
265.0	270.0	5.0	5.0	100		
265.0	266.5				sandstone (see above description plus interbedded chocolate mudstone)	
266.5	270.0				mudstone, gray to chocolate, weathered to 268.5' massive to banded, micaceous	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. WC 33

Location: Big Rocket 7 Sec. 17 T 39-S R 15-E Coordinates 1733370 1661170

Purpose:

Elevation: At Collar 5214.0 At Bottom 4892.0 Total Depth 322

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX 295 To 322 AX To , EX To

Core Recovery: NX % BX 70 % AX % EX %

Date: Hole Started ? Hole Completed ?

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. AEC 11 DATE 30th Aug.54

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
295.0	305.0		10	100	silty sandstone, gray to light gray,	
295	298.5				C^{0-1}, pyrite ?, 1.5x background count, banded, pre-consolidation deformation locally.	
298.5	301.0				siltstone, gray, mdstone, interbedded, C^{1-2}, pyrite 1% ± sandstone lenses to 4" at base, mudstone lenses, C^{3-4}, at base, 2x background count, banded, @ 300' C^{4} & 10x background count.	Trc
301.0	305.0				Sandstone, light gray, coarse grained, C^{0} pyrite?, 1 to 1.5x background count, massive carbonate cement.	Trs
305.0	315.0		9	90		
305.0	312.5				Sandstone, light gray, coarse grained, C^{0-3} pyrite 0 to 3% (pyrite & C increase with depth) at base a medium grained sandstone conglomerate with mud lenses, 1.5x background count, massive.	
312.5	315.0				Sandstone, gray, fine grained, C^{0-1}, siltstone lenses, pyrite plus, 1x background count, banded with pre-consolidation deformation @ 314.5 C^{2-3} & pyrite 1.5% ± conglomeratic at base.	Trs Trm
315.0	322.0		2	30		
315.0	322.0				Mudstone, gray, C^{0-1} pyrite 0.5% ±, massive	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

[illegible]

PROJECT [illegible] AREA [illegible]

HOLE NO. [illegible]

Location: [illegible] Sec. 27 T 35-S R 25-E Coordinates [illegible]

Purpose:

Elevation: At Collar [illegible] At Bottom [illegible] Total Depth [illegible]

Inclination: At Collar [illegible] At Bottom Bearing

Size of Core: NX To , BX [illegible] To [illegible] , AX To , EX To

Core Recovery: NX % BX 97 % AX % EX %

Date: Hole Started ? Hole Completed ?

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. AEC 12 DATE Aug.30,1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
305.0	315.0		10	100		
305.0	314.6				silty-mudstone, dark gray, sandy lenses, C^{0-1}, pyrite 0.5-1% ± 1x background count, massive.	Trc Trs
314.6	315.0				Sandstone, light gray, medium grained, siltstone lenses, C^{0-1}, pyrite 1% ±, 1 to 1.5x background count, massive, limey cement.	
315.0	325.0		10	100		
315.0	317.0				Sandstone, gray, medium grained, siltstone, lenses (increases with depth), C^{0-1}, pyrite? 1x background count, banded, limey cement in part.	
317.0	325.0				Sandstone, gray to light gray, coarse to very coarse grained, Co-1.5, pyrite plus, 1x background, count (2x in the lower portion), massive limey cement.	
325.0	335		9	90		
325.0	330.5				Sandstone(see above description)	Trs Trm
330.5	335				Mudstone, gray to red, leached from 330.5 - 334.0, massive to laminated.	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: Mo Lone Canyon AREA: San Juan County, Utah

HOLE NO. ATC 13

Location: Dir Rocket 2 Sec. 18 T 35-S R 15-E Coordinates DB0270 160720

Purpose:

Elevation: At Collar 5220.3 At Bottom 4868.3 Total Depth 352

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX 320 To 352, BX To, AX To, EX To

Core Recovery: NX 95 % BX % AX % EX %

Date: Hole Started ? Hole Completed ?

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG
WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. ARC 13 DATE Aug.30/54

FROM	TO	INT. FT.	%	DESCRIPTION	
320.0	330.0	9	90		
320.0	324.0			silty sandstone, gray, fine grained, C^{0-1}, pyrite 0.5% ±, 1 to 1.5x background count, banded	
324.0	330.0			Sandstone, gray to light gray, medium grained, $C^{1-2.5}$, pyrite 1% ±, 1 to 1.5x background count.	
330.0	340.0	9.5	95		
330.0	332.0			Sandstone (see above description)	
332.0	338.5			Mudstone-siltstone, gray, sandy in part, $C^{1-1.5}$, pyrite 0.5-1% ± 1 to 1.5x background count, massive to banded.	Trc? Trs
338.5	340.0			Sandstone, light gray, coarse grained, C^{0-1} pyrite 0.5-1% ± , 1x background count, limey cement in part.	
340.0	345.0	5	100		
340.0	343.5			Sandstone(see above description)	
343.5	345.0			Sandstone, light gray, very coarse grained, partly conglomeratic, C^{0-1}, pyrite 0.5-1% ± 1x background count, limey cement, massive	
345.0	352.0	7	100		
345.0	345.5			Sandstone (see above description)	
345.5	352.0			Shaly mudstone, gray to red, leached 342.5-347.5, massive to laminated.	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon AREA: San Juan County, Utah

HOLE NO. ARC 14

Location: Gun Dog 9 Sec. 27 T 35-S R 15-E Coordinates 130410 759540

Purpose:

Elevation: At Collar 5306.6 At Bottom 4908.6 Total Depth 398

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX 320 To 398, AX To , EX To

Core Recovery: NX % BX 100 % AX % EX %

Date: Hole Started ? Hole Completed ?

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG
WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. AEC 14 DATE Aug.30/54

FROM	TO	INT.FT.	RECOVERED %	DESCRIPTION	
330.0	340.0	10	100		
330.0	334.0			Siltstone, gray to light gray, interbedded mudstone and sandstone lenses, C^0, pyrite?, 1.5-2x background count, banded, sandstone cemented by carbonate.	Trc
334.0	340.0			Silty mudstone, gray, contemporaneous clastic deformation 337-340, C^{0-1}, pyrite plus, 101.5x background count (C^{1-2}, & pyrite 1% ± @ 339.6-340.0)	
340.0	350.0	10	100		
340.0	341.5			Sandstone, light gray, coarse grained, interbedded siltstone lenses, @ 340.2 note pyrite ± chalcopyrite replacement of carbonate cement, $C^{1.5-2}$, pyrite 4%, 1.5-2x background count, limey cement.	
341.5	350.0			Siltstone, gray to dark gray, interbedded sandstone lenses at 344.5-346, mudstone lenses, $C^{0-1.5}$, pyrite plus, note clastic deformation, 1-2x background count, cement limey in part, banded.	
350.0	360.0	10	100		
350.0	358.0			Silty mudstone, dark gray, medium grained sandstone lenses, C^{0-1}, pyrite plus, 1-1.5 background count, banded.	

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE No. AEC 14 DATE August 30/54

FROM	TO	INT. FT.	RECOVERED %	DESCRIPTION
358.0	360.0			Sandstone, gray, medium to coarse grained, C^{0-1}, pyrite plus, 1-1.5x background count, limey cement.
360.0	370.0	10	100	
360.0	361.5			Sandstone, gray, medium to coarse C^{0-3}, pyrite 1½% ±, 1.5-2.5x background count, massive.
361.5	365.0			silty mudstone, dark gray, C^{0-1} pyrite 1½% ± 1-1.5x background count, massive.
365.0	367.5			siltstone, gray to dark gray with coarse sandstone lenses @ 367-367.5 & 365.0-365.5, pyrite 5-7%, note development of cubes-replaces cement in sandstone at 367, C^{3-4}, 1.5-2x background count, limey cement in sandstone lenses.
367.5	370.0			Sandy siltstone, gray, mudstone, lenses, $C^{0-1.5}$, pyrite plus, 1.5-2.5x background count, banded
370.0	380.0	10	100	
370.0	374.0			silty sandstone, gray, C^{0-1}, pyrite plus, 1-1.5x background count, banded.
374.0	378.0			Shaly mudstone, gray, sandstone lenses (lenses @ 374-374.5, 375-375.5) @ 375 $C^{1-1.5}$, pyrite 1% plus, interbedded with siltstone lenses to 377, in general C^{0-1}, pyrite plus, 1.5 background count laminated.

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No Name Canyon HOLE NO. AEC 14 DATE August 30/54

FROM	TO	INT. FT.	Recovered %	DESCRIPTION
378.0	380.0			Sandstone, light gray, medium grained, mudstone @ 378.8, $C^{0-1.5}$ pyrite 0-1%, 1x background count, massive, limey cement.
380.0	390.0	10	100	
380.0	385.5			Sandstone (see above description) except - 385-385.5 C^{0-2} & 1-1.5 background count.
385.5	390.0			Siltstone, gray, lenses of mudstone and sandstone, C^{0-15}, pyrite 0-1.5%, 2-4x background count, massive.
390.0	398.0	8	100	
390.0	394.5			Siltstone, gray, interbedded, mudstone, sandy in part and conglomeratic, $C^{2-3\frac{1}{2}}$, pyrite 1.5%, 2-4x background count.
394.5	398.0			Shaly mudstone, gray to red, laminated in part.

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon AREA San Juan County, Utah

HOLE NO. ANC 15

Location: Gun Log 9 Sec. 17 T 35-S R 15-E Coordinates 550610 U59570

Purpose:

Elevation: At Collar 5909.8 At Bottom 4919.8 Total Depth 390

Inclination: At Collar Vert At Bottom Bearing

Size of Core: NX To , BX To , AX To , EX To

Core Recovery: NX % BX % AX % EX %

Date: Hole Started ? Hole Completed ?

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT No Name Canyon HOLE NO. AEC 15 DATE August 30/54

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
350.0	360.0		10	100	
350.0	357.5				Silty mudstone, uniform in texture, $C^{0-0.5}$, 1-1.5x background count, pyrite plus, massive.
357.5	-360.0				Mudstone, gray, siltstone lenses, C^{0}, pyrite? 1-1.5x background count, dense, with red lenticular irregular splotches in upper foot.
360.0	370.0		10	100	
360.0	365.5				Siltstone, gray, C^{0-1}, pyrite plus 1x background count, massive.
365.5	369.2				Sandstone, light gray to gray, fine to medium grained (coarseness increasing with depth), C^{0-1}, $C^{1-2.5}$@ 368.5, pyrite 1% ± 1-1.5x background count. weakly calcareous.
369.2	370.0				Muddy siltstone, gray, 1.5x background count.
370.0	380.0		9.8	98	
370.0	375.5				Siltstone, gray, interbedded fine sandstone lenses, $C^{0-1.5}$ pyrite 1% ±, 1x background count laminated.
375.5	380.0				Sandstone, gray, with strong carbon - lenses, C^{0-1}, kaolin abundant (%), pyrite trace, 1-1.2x background count, minor limey cement,
380.0	390.0		10	100	
380.0	385.0				Sandstone, (see above description) Trs / Trm
385.0	390.0				Mudstone, gray to red, leached to 385.5

RYAN, ASKREN & MATHEWSON
LAWYERS
WHITE-HENRY-STUART BUILDING
SEATTLE

DMEA
Date Rec'd.
JUN 20 1955
RECEIVED
JUL - 7 1955
BUREAU OF MINES
Denver, Colorado

June 16, 1955

Defense Minerals Exploration Administration
Region 4
220 New Custom House Building
Denver 1, Colorado

ATTENTION: Mr. John H. East

Re: Application for aid in an exploration project pursuant to DMEA Order 1 under the Defense Production Act of 1950 as amended. - Applicant: WHITE CANYON JOINT VENTURE

COPY

Gentlemen:

Enclosed please find an original and three (3) copies of an application on behalf of White Canyon Joint Venture for aid in an exploration project as above-referenced.

This office represents the applicant and we would appreciate having your request and comments as to the sufficiency of the application directed to this office to the attention of, Raymond C. Swanson.

Very truly yours,

RYAN, ASKREN & MATHEWSON

By Raymond C. Swanson
Raymond C. Swanson

RCS:ged
Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
Date Rec'd.
JUN 20 1955
BUREAU OF MINES
Denver, Colorado

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

RECEIVED
JUN 24 1955

Not to be filled in by applicant

Docket No. 3870
Metal or Mineral Uranium
Date Received 6-24-55
Estimated Cost $187,925.20
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: WHITE CANYON JOINT VENTURE, 1616 Smith Tower, Seattle 4, Washington (a joint venture) See attached Exhibit To Instruction 1(a)

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached Exhibit to Instruction 3(a) and 3(e)

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached Exhibit to Instruction 3(c)

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See attached Exhibits to Instruction 3(d)

(*e*) If you own the land, describe any liens or encumbrances on it NONE

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See Exhibit 3(a) and 3(f)

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

16—66551-1

*See Exhibit to Instruction 4(a), 4(b), 4(c), 4(d) and 4(e)

*5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

**6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? YES

(*b*) How do you propose to furnish your share of the costs? See Exhibit to Instruction 7(b)

[X] Money [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated June 16th, 1955

WHITE CANYON JOINT VENTURE
(Applicant)

By [signature]

NYAC DEVELOPMENT COMPANY, By [signature] President

CANYON EXPLORATIONS LIMITED, By [signature] President

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

*See Exhibit to Instruction 5(a), 5(b), 5(c) and 5(d)
**See Exhibit to Instruction 6(a), 6(b), 6(c), 6(d), 6(e), 6(f) and 6(g)

EXHIBIT TO INSTRUCTION 1(a)

ORGANIZATION OF APPLICANT

The White Canyon Joint Venture of 1616 Smith Tower, Seattle, State of Washington, is a joint venture consisting of Nyac Development Company, a corporation, incorporated under the laws of the State of Washington, Canyon Explorations Limited, a corporation incorporated under the laws of the Province of British Columbia, Canada, and C. W. Nash, an individual and citizen of the United States. The White Canyon Joint Venture was formed in accordance with the laws of the State of Washington.

The names and business addresses of the joint venturees are as follows:

	OFFICE ADDRESS	REGISTERED OFFICE
NYAC DEVELOPMENT COMPANY	1616 Smith Tower Seattle 4, Wash.	545 Henry Building Seattle 1, Washington
CANYON EXPLORATIONS LIMITED	711-525 Seymour St. Vancouver 2, B.C. Canada	1005 Credit Foncier Building Vancouver, B.C. Canada
C. W. NASH	631 Judge Building Salt Lake City Utah	

The title, names and addresses of the officers of the corporate venturees are as follows:

	TITLE	OFFICER	ADDRESS
NYAC DEVELOPMENT COMPANY	President	James K. Crowdy	1616 Smith Tower Seattle 4, Wash.
	Vice President	Mark F. Mathewson	545 Henry Building Seattle 1, Wash.
	Secretary - Treasurer	Leise G. Robbins	1616 Smith Tower Seattle 4, Wash.

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	TITLE	OFFICER	ADDRESS
CANYON EXPLORATIONS LIMITED	President	Howard T. James	711-525 Seymour St. Vancouver 2, B.C. Canada
	Vice President	Frank E. Hall	c/o Hall Securities Ltd. Hall Building Vancouver, B. C. Canada
	Secretary-Treasurer	P. Stevenson	711-525 Seymour St. Vancouver 2, B.C. Canada

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EXHIBIT TO INSTRUCTIONS 3(a) and 3(f)

Legal Description of Lands

The following described thirty-one (31) unpatented claims located in one contiguous tract in Sections 7, 8, 17 and 18 unsurveyed, Township 35 South, Range 15 East, Salt Lake Meridian, San Juan County, Utah, recorded in the records of the San Juan County, Utah, Recorder's Office at the book and page indicated opposite the name of each claim:

NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
BIG ROCKET NO. 1	Not. of Loc.	47	187
BIG ROCKET NO. 2	Not. of Loc.	47	187
BIG ROCKET NO. 3	Not. of Loc.	47	188
BIG ROCKET NO. 4	Not. of Loc.	47	188
BIG ROCKET NO. 5	Not. of Loc.	47	189
BIG ROCKET NO. 6	Not. of Loc.	57	213
BIG ROCKET NO. 7	Not. of Loc.	57	213
BIG ROCKET NO. 7	Amend. Not. Loc.	271	338
BUCK	Not. of Loc.	47	185
BUCK NO. 2	Not. of Loc.	47	186
BUCK NO. 2	Amend. Not. Loc.	67	379
BUCK NO. 2	Amend. Not. Loc.	267	389
BUCK NO. 3	Not. of Loc.	47	186
BUCK NO. 3	Amend. Not. Loc.	61	380
BUCK NO. 3	Amend. Not. Loc.	271	337
BUCK NO. 4	Not. of Loc.	61	58
LOST BOY #3	Not. of Loc.	19	322
LOST BOY #3	Amend. Not. Loc.	67	377
SUN DOG NO. 1	Not. of Loc.	47	484
SUN DOG NO. 2	Not. of Loc.	47	485
SUN DOG NO. 3	Not. of Loc.	47	485
SUN DOG NO. 4	Not. of Loc.	47	486
SUN DOG NO. 5	Not. of Loc.	47	486
SUN DOG NO. 5	Amend. Not. Loc.	267	378
SUN DOG NO. 6	Not. of Loc.	47	487
SUN DOG NO. 6	Amend. Not. Loc.	267	379
SUN DOG NO. 7	Not. of Loc.	107	240
SUN DOG NO. 8	Not. of Loc.	107	241
SUN DOG NO. 8	Amend. Not. Loc.	271	338
SUN DOG NO. 9	Not. of Loc.	107	241
SUN DOG NO. 9	Amend. Not. Loc.	271	339
SUN DOG NO. 10	Not. of Loc.	107	242
SUN DOG NO. 10	Amend. Not. Loc.	267	379
SUN DOG NO. 11	Not. of Loc.	107	242

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NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
YELLOW JACK NO. 1	Not. of Loc.	47	189
YELLOW JACK NO. 2	Not. of Loc.	47	190
YELLOW JACK NO. 9	Not. of Loc.	77	323
BIG SHEEP	Not. of Loc.	77	323
BIG SHEEP	Amend. Not. Loc.	129	306
BIG SHEEP NO. 2	Not. of Loc.	77	435
BIG SHEEP NO. 2	Amend. Not. Loc.	129	307
BIG SHEEP NO. 3	Not. of Loc.	77	435
BIG SHEEP NO. 3	Amend. Not. Loc.	129	307
BIG SHEEP NO. 4	Not. of Loc.	77	436
BIG SHEEP NO. 4	Amend. Not. Loc.	129	308
BIG SHEEP NO. 5	Not. of Loc.	129	308
Easement for tunnel through and access over Lost Boy, Lost Boy 2 and Winchester mining claims, recorded		285	348-352

and,

The following described twenty-three (23) unpatented claims located in one contiguous tract in Sections 9, 15 and 16, unsurveyed, Township 35 South, Range 14 East, Salt Lake Meridian, San Juan County, Utah, recorded in the records of the San Juan County Recorder's Office at the book and page indicated opposite the name of each claim:

NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
BIG JACK NO. 1	Not. of Loc.	55	272
BIG JACK NO. 1	Amend. Not. Loc.	277	199
BIG JACK NO. 2	Not. of Loc.	55	272
BIG JACK NO. 2	Amend. Not. Loc.	277	200
BIG JACK NO. 3	Not. of Loc.	55	273
BIG JACK NO. 3	Amend. Not. Loc.	277	201
BIG JACK NO. 4	Not. of Loc.	55	273
BIG JACK NO. 4	Amend. Not. Loc.	277	202
BIG JACK NO. 5	Not. of Loc.	55	274
BIG JACK NO. 5	Not. of Reloc.	277	203
BIG JACK NO. 6	Not. of Loc.	69	263
BIG JACK NO. 6	Amend. Not. Loc.	277	204
BIG JACK NO. 7	Not. of Loc.	69	264
BIG JACK NO. 7	Amend. Not. Loc.	277	205
BIG JACK NO. 8	Not. of Loc.	69	264
BIG JACK NO. 8	Amend. Not. Loc.	277	206
BIG JACK NO. 9	Not. of Loc.	69	265
BIG JACK NO. 9	Amend. Not. Loc.	277	207

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NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
CASTLE MYTH NO. 4	Not. of Loc.	55	276
CASTLE MYTH NO. 4	Amend. Not. Loc.	277	158
CASTLE MYTH NO. 5	Not. of Loc.	55	277
CASTLE MYTH NO. 5	Amend. Not. Loc.	277	159
CASTLE MYTH NO. 6	Not. of Loc.	55	277
CASTLE MYTH NO. 6	Amend. Not. Loc.	277	160
CASTLE MYTH NO. 7	Not. of Loc.	55	278
CASTLE MYTH NO. 7	Amend. Not. Loc.	277	161
CASTLE MYTH NO. 8	Not. of Loc.	55	278
CASTLE MYTH NO. 8	Amend. Not. Loc.	277	162
CASTLE MYTH NO. 9	Not. of Loc.	55	279
CASTLE MYTH NO. 9	Amend. Not. Loc.	277	163
CASTLE MYTH NO. 10	Not. of Loc.	55	279
CASTLE MYTH NO. 10	Amend. Not. Loc.	277	164
CASTLE MYTH NO. 11	Not. of Loc.	55	280
CASTLE MYTH NO. 11	Amend. Not. Loc.	277	165
CASTLE MYTH NO. 12	Not. of Loc.	55	280
CASTLE MYTH NO. 12	Amend. Not. Loc.	277	166
CASTLE MYTH NO. 13	Not. of Loc.	55	281
CASTLE MYTH NO. 13	Amend. Not. Loc.	277	167
CASTLE MYTH NO. 14	Not. of Loc.	55	281
CASTLE MYTH NO. 14	Amend. Not. Loc.	277	168
CASTLE MYTH NO. 18	Not. of Loc.	69	258
CASTLE MYTH NO. 18	Amend. Not. Loc.	277	172
CASTLE MYTH NO. 19	Not. of Loc.	69	258
CASTLE MYTH NO. 19	Amend. Not. Loc.	277	173
CASTLE MYTH NO. 20	Not. of Loc.	69	259
CASTLE MYTH NO. 20	Amend. Not. Loc.	277	174

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EXHIBIT TO INSTRUCTION 3(c)

The White Canyon Joint Venture is the owner of the entire beneficial leasehold interest in all the unpatented mining claims except for Big Jack No. 5 in which the White Canyon Joint Venture owns the entire beneficial interest. The White Canyon Joint Venture derives its title through the following circumstances.

Newam Company, a corporation formed under the laws of the State of Washington, on May 20, 1954, by two written instruments, leased all of the mining claims as listed on Exhibit to Instructions 3(a) and 3(f) from the locators and owners thereof except Big Jack No. 5. Big Jack No. 5 claim was purchased on July 23, 1954, from the locators. A copy of the deed for Big Jack No. 5 is included herewith as Exhibit V to Instruction 3(d) and copies of the leases and subsequent modifications thereof for the balance of the mining claims are included with this application as Exhibits III, IV, VI, VII, X and XI to Instruction 3(d).

Newam Company purchased and/or leased all of the mining claims with the agreement and understanding that it was acting only as trustee without compensation for the White Canyon Joint Venture. Pursuant thereto, Newam Company on December 17, 1954, executed a Declaration of Trust through its President, J. K. Crowdy, and its Secretary, Raymond C. Swanson, wherein it acknowledged that it was acting only as trustee and declaring that it held title to Big Jack No. 5 claim and the leases of the remainder of the claims as trustee for the use and benefit of Nyac Development Company, Canyon Explorations Limited and C. W. Nash, in accordance with the parties joint venture

agreement. A copy of the Declaration of Trust and Supplements thereto are included herewith as Exhibits I and II to Instruction 3(d).

There is also included as Exhibit VIII to Instruction 3(d) a copy of an Agreement dated February 26, 1955, by and between Big Horn Uranium Corporation and Newam Company and other persons, wherein Big Horn Uranium Corporation granted to Newam Company an easement for construction and maintenance of a tunnel and a surface easement for ingress and egress to the claims leased by Newam Company, said easement being through Lost Boy, Lost Boy No. 2 and Winchester mining claims which are located appurtenant to the claims leased by Newam Company. This Agreement of February 26, 1955, was modified and enlarged by letter dated May 13, 1955, from Big Horn Uranium Corporation to Newam Corporation, included herein as Exhibit XII to Instruction 3(c) and Newam Company, by letter dated March 11, 1955, included herein as Exhibit IX to Instruction 3(d) granted to Big Horn Uranium Corporation joint use of that part of the approach tunnel driven through the claims owned by Big Horn Uranium Corporation.

As mentioned hereinabove, Newam Company is a corporation formed under the laws of the State of Washington and is acting as trustee without compensation for the use and benefit of the applicant, White Canyon Joint Venture. The address of Newam Company is, 545 Henry Building, Seattle 4, Washington, and its officers and directors are as follows:

JAMES K. CROWDY	Director and President	1616 Smith Tower Seattle 4, Washington
LESIE G. ROBBINS	Director and Vice-President	1616 Smith Tower Seattle 4, Washington

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RAYMOND C. SWANSON	Director and Secretary	545 Henry Building Seattle 1, Washington
FANNIE BARLEY	Treasurer	P. O. Box 3347 Seattle 14, Washington

Newam Company has no interest in the claims listed in Exhibit to Instructions 3(a) and 3(f) other than as Trustee, it has no interest in the applicant White Canyon Joint Venture and conducts no business whatsoever except as Trustee for the White Canyon Joint Venture. Newam Company has consented to the application for a loan and its Consent To Lien is filed with this application as is the Consent To Lien of each of the locators of the claims leased by Newam Company.

Applicant desires to point out that it is currently negotiating with Floyd Odlum, an individual, which may result in Floyd Odlum's obtaining for himself and his associates an interest in the mining claims owned and leased by the applicant. The proposed agreement is that for certain monies made available for further exploration and development work on the claims, Mr. Odlum would receive an interest and/or an option to obtain an interest in said mining claims up to a fifty per cent interest. The percentage of his interest has not been determined but it would be represented by a working interest in the claims or one-half of the stock of a corporation which would be formed to own and operate the claims. The proposed agreement contemplates and authorizes this application for aid in an exploration project and any interest which Floyd Odlum would obtain shall be subordinate and inferior to any interest which the United States

Government obtains in said mining claims by the approval of the loan herein applied for. The Utah Address of Floyd Odlum is, c/o Mr. C. A. Elggren, 1003 Continental Bank Building, Salt Lake City 1, Utah.

EXHIBIT TO INSTRUCTION 3(d)

COPIES OF LEASES AND AGREEMENTS

Copies of the following instruments are attached to each application Form MF-103 in the order indicated in answer to instruction 3(d) and in support of applicant's answers to instruction 3(c).

Declaration of Trust	- dated 12/17/54	Exhibit I to Instruction 3(d)
Amended Declaration of Trust	- dated 3/31/55	Exhibit II to Instruction 3(d)
Lease	- dated 5/20/54	Exhibit III to Instruction 3(d)
Lease	- dated 5/20/54	Exhibit IV to Instruction 3(d)
Deed to Big Jack No. 5	- dated 7/23/54	Exhibit V to Instruction 3(d)
Modification of Lease (modifying lease of 5/20/54)	- dated 7/29/54	Exhibit VI to Instruction 3(d)
Agreement Modifying Lease (second modification of lease of 5/20/54)	- dated 2/26/55	Exhibit VII to Instruction 3(d)
Agreement (Granting to Newam Co. easement for tunnel and access)	- dated 2/26/55	Exhibit VIII to Instruction 3(d)
Letter to Big Horn Uranium Co. dated 3/11/55, (granting to Big Horn Uranium Co. joint use of tunnel)	- dated 3/11/55	Exhibit IX to Instruction 3(d)

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Agreement Modifying - Lease	dated 4/23/55	Exhibit X to Instruction 3(d)
Agreement Modifying - Lease	dated 4/23/55	Exhibit XI to Instruction 3(d)
Letter from Big Horn Uranium Co. (Re - Tunnel easement to Newam Co.)	dated 5/13/55	Exhibit XII to Instruction 3(d)

EXHIBIT TO INSTRUCTION 4(a), 4(b) 4(c) 4(d) and 4(e)-PHYSICAL DESCRIPTION

(a) The operations herein described apply only to the Sun Dog group of mining claims leased by the White Canyon Joint Venture and not to the Castle Myth group of claims which are also owned and/or leased by the White Canyon Joint Venture but which lie to the southwest in the same canyon. The exploration operations consist of 36 drill holes which were all drilled in 1954. The first 16 of these holes were drilled by the Atomic Energy Commission and then later 20 holes were drilled by the White Canyon Joint Venture. All these holes with the exception of two were drilled with tricone bit to a point some distance above the potential ore horizon and were cored through the potential ore horizon. The two exceptions, named Newam 35 and Newam 44, were inadvertently plugged through the Shinarump. A plan at a scale of 1"=2000' shows the general location of the group and its relation to surrounding properties and is attached as Plan No. 1. A plan of the claims on a scale of 1 = 400' is attached as Plan No. 2 - shows the location of the holes.

Access to the area drilled is via highway 95, from Blanding, Utah, past the A.E.C. sampling plant near the Happy Jack Mine, thence through the Blue Notch to the head of No Name Canyon. This may be driven by truck or automobile. Access to the proposed tunnel is by car two miles from the A.E.C. sampling plant on highway 95, past the Happy Jack Mine, and along the Shinarump outcrop to the Big Horn tunnel on Lost Boy 2 claim.

(b) None

(c) The rocks exposed on the property are Triassic in age and range from Moenkopi (Red Beds) to Kayenta, and in order of decreasing age, are Moenkopi, Shinarump, Chinle, Wingate, and Kayenta. Of these, the Shinarump is the ore bearing formation and is being mined for uranium ore in many localities nearby the Sun Dog group, the most notable of which is the Happy Jack Mine. The ore is found in Shinarump channels incised into the underlying Red Beds and is chiefly associated with carbon trash, and with interfingering mudstone and sandstone beds of the Shinarump.

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4(c) Continued

At the Happy Jack Mine, underground developments have outlined a body of ore some 500 feet wide and 1200 feet long with both sides and ends not yet delimited. The ore occurs in a channel of which the east side only has been explored. The center of the Happy Jack channel appears to be to the west of present workings as the dip is in that direction and the westerly area must be considered good prospecting ground.

The drilling on the Sun Dog group located a Shinarump channel extending in a northerly direction as indicated in Plan 1 and 2. The drilling was continued northerly as far as was physically possible. Farther tracing of the channel northerly by drilling was prevented by the high Wingate cliff, the location of which is shown in Plan No. 1.

Encouraging values were found in some of the holes as the drilling proceeded northerly toward the Happy Jack Mine. There is thus good reason to believe that the channel located was the southerly extension of the Happy Jack channel. The drill holes outlining the channel, together with uranium mineralization, are as follows, listed from southerly to northerly:

Drill Hole	Thickness of Shinarump	Remarks
Newam 16	24.7'	1.6" - 372'-373.6' - geigered 0.15 U_3O_8
Newam 17	19.1'	No reaction to geiger
Newam 28	25.0'	No reaction to geiger
Newam 24	22.9'	At 299 some radioactivity by geiger
AEC 10	17.0'	1,5x background in Shinarump
AEC 5	17.0'	1.5-2.0x background from 281-306'
AEC 9	10.5'	Scintillometer showed following - @ 261.3' - 820 cps interval 1.5' @ 275.7' - 775 cps interval 1' plus @ 284.0' - 7500 cps interval 2.25' @ 299.5' - 2865 cps interval 2.0'
Newam 35		Plugged through Shinarump
AEC 16	15.0'	1.5 - 2.0x background from 401-415
Newam 42	10.6'	Narrow sections geigered in Shinarump indicating 0.10 U_3O_8
Newam 44	1.9' +	Plugged through Shinarump all but bottom 1.9'
Newam 43	18.3'	Two sections assayed - 386.1-387.3) 1.0' @ 0.45 U_3O_8 393.1-393.6)

Logs of above holes are attached.

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4(c) Continued

In view of the fact that the drilling has outlined a paleochannel which appears to be the southerly extension of the Happy Jack channel, it is most desirable to thoroughly explore the area between the most northerly drilling on the Sun Dog group and the Happy Jack mine. The most feasible method of doing this, and the one which has been decided upon, is to extend the Big Horn tunnel on Lost Boy 2 claim as indicated on Plan 2. This will crosscut the extension of the paleochannel. Drifting on this channel either northward or southward will explore its extensions in those directions. This work would give invaluable information as to the nature of the Happy Jack type of occurrence particularly as to potential tonnages. Drifting to cut some of the narrow ore intersections in drill holes will be important because experience in the White Canyon area to date shows drifting on such drill intersections has resulted in ore widths. The trend of the paleochannel outlined by White Canyon Joint Venture drilling appears to be through Sun Dog 8 and possibly Sun Dog 6 and Sun Dog 10.

(d) The portal of the Big Horn tunnel on the Lost Boy No. 2 claim, which is to be extended to provide access to applicant's mining claims, is about a mile and a quarter by road from the Happy Jack mine. The Happy Jack Mine is about three-quarters of a mile from the A.E.C. sampling plant on highway 95. This in turn is approximately 70 miles from Blanding, Utah, which is also the nearest available residence area of any consequence.

(e) Miners are on location ready to start the extension of the Big Horn tunnel towards applicant's mining claims. Water would have to be hauled about 18 miles from Fry Canyon. Being on established highways, there is no problem about material, supplies, and equipment. What power is needed will be both gasoline and diesel.

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EXHIBIT TO INSTRUCTION 5(a) 5(b) 5(c) and 5(d)

THE EXPLORATION PROJECT

(a) The Project will explore for uranium.

(b) A typical Shinarump channel, believed to be thesoutherly extension of the Happy Jack channel, has been outlined by drilling on the following mineral claims -

Big Rocket No. 6

Big Rocket No. 5

Big Rocket No. 3

Big Rocket No. 7

Sun Dog No. 11

Further drilling to follow this channel "upstream" toward the Happy Jack property is impractical due to the inaccessibility of the ground to be prospected. The channel here runs under the Wingate sandstone which forms a cliff so steep as to render it impractical to make an access road. Even if it were feasible to get to the top of the mesa formed by the Wingate cliffs, the terrain on top is too rugged for proper drill stations to be made.

It is proposed, therefore, to enter the property by driving an adit on the Shinarump formation through the Lost Boy No. 2 claim as shown on Plan No. 2. This claim is owned by the Big Horn Mining Company and the tunnel has been advanced by that company a distance approximately 325 feet. Big Horn Mining Company has granted White Canyon Joint Venture easement through the Lost Boy No. 2 mineral claim, and certain surface rights, in consideration of its driving the tunnel an additional 1000 feet (approximately) through the claim on a bearing of approximately N 60°W. This extension is being started by White Canyon Joint Venture as soon as suitable equipment can be placed on the property and will be continued to the west boundary of the Lost Boy No. 2 claim, (Point A on Plan 2 attached) at its expense. This request for DMEA loan does not apply to work on the Lost Boy No. 2 claim.

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5(b) Continued

The project for which a loan is requested is as follows: -

1. Extend the adit referred to immediately above from said point "A" on the boundary of the Lost Boy No. 2 and Buck No. 3 mineral claims a distance of 2200 feet on a bearing of approximately N 60°W, to approximately the center of the Sun Dog No. 5 claim (Point "B" on Plan 2) or to some lesser distance if the Happy Jack channel is crossed before the full 2200 feet have been driven. This working will be driven on the base of the Shinarump formation.

2. Explore the channel "downstream" (i.e., southerly) a distance of 1200 feet with such crosscutting as seems necessary at intervals.

3. Follow the channel "upstream" (northerly) with crosscuts in the channel as warranted.

A total of 5000 feet of underground work on the Shinarump formation is proposed within the boundaries of claims of the White Canyon Joint Venture.

The tunnel will be not less than 7' x 7' in cross section, adequate for modern trackless equipment and an 18" vent pipe. It will be driven on the base of the Shinarump, formation, and where deemed advisable, the full thickness of the formations will be prospected by test holes.

(c) Work on the approach adit, through the Big Horn No. 2 claim, for which no assistance is being requested, will start within 30 days of the date hereof and will be completed within approximately 100 days.

The work on the exploration project for which this loan is requested will commence as soon as an exploration contract is approved, provided the Big Horn tunnel has by that date been driven to the applicant's claims. The exploration program herein described will be completed twelve months from the date on which work commences.

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5(d) The White Canyon Joint Venture as an operating entity has no operating experience as such. However, the operating experience necessary for a successful exploration program is provided through the corporations who own and control the corporate venturees, and who have a vital interest in the program.

Nyac Development Company, one of the members of the White Canyon Joint Venture is controlled through stock ownership by New York-Alaska Gold Dredging Corporation, a corporation who has for years successfully conducted gold mining operations at Nyac, Alaska. And, in addition to the mining operations in Alaska, this corporation has conducted prospecting operations in British Guiana and Venezuela on the South American continent, in the Yukon Territory of Canada, in British Columbia, Canada, and in various other parts of the Territory of Alaska.

The managing director of New York-Alaska Gold Dredging Corporation is Mr. James K. Crowdy, who has been the managing director of the corporation for the past thirty years and who is a member of both the American Institute of Mining and Metallurgical Engineers, and the Canadian Institute of Mining and Metallurgical Engineers.

Mr. C.W. Nash, the individual joint venturee in the White Canyon Project, has had long experience in the construction and contracting business.

The third joint venturee, which is Canyon Explorations Limited, is controlled through stock ownership by Pioneer Gold Mines of B.C. Limited, a corporation which has for many years successfully operated a lode gold mine in British Columbia, Canada. It has been active since 1937 in mine exploration work in British Columbia, Manitoba, Ontario, Quebec, and the North West Territories.

Howard T. James, the managing director of Pioneer Gold Mines of B.C. Limited, is the managing director of the White Canyon Joint Venture. He is a past president of the Mining Association of British Columbia, a member of the Canadian Institute of Mining and Metallurgy, of American Institute of Mining and

5(d) Continued

Metallurgical Engineers, and of the Association of Professional Engineers of the Province of British Columbia. He has been associated with Pioneer Gold Mines of B.C. Limited since 1932, serving successively as geolggist and engineer, mine superintendent, manager, and since 1936 as Managing Director. For the ten years prior to 1932, he served as geologist for Britannia Mining and Smelting Company, for Granby Consolidated Mining and Smelting Company, and as Resident Engineer for the Province of British Columbia. A Ph.D. in geology was obtained from Harvard University in 1927.

WHITE CANYON JOINT VENTURE
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Seattle 4, Washington.

EXHIBIT TO INSTRUCTION 6(a) 6(b) 6(c) 6(d) 6(e) 6(f) 6(g)

ESTIMATE OF COST

6(a) Independent Contracts

Cost of contracting this work is estimated as follows - one contractor to supply drill steel, bits, explosives, gas oil lubricants, and all other consumable day to day supplies: -

2,000' tunnel @ $20.00/foot - 8x8	$40,000.00	
3,000' tunnel @ $25.00/foot - 8x8	75,000.00	
500 rock bolts @ $3.50 each installed	1,750.00	
200 test holes 25' deep @ $5.00/hole	1,000.00	$117,750.00

6(b) Labour, supervision and Consultants

Labour	Nil	
Supervision	8,400.00	
Consultants and geologists	3,000.00	$ 11,400.00

6(c) Operating Material and supplies

See (a) and (d)

6(d) Operating equipment

1 Emco 630 Crawler Loader	7,480.00	
1 Rand Gyro flo Compressor 600 cu.ft/M	15,050.00	
2 Cleveland Jack Leg drills @ $750.00	1,500.00	
Hose and connections for above	130.00	
1 Drill car (Young Machinery of Monticello)	2,200.00	
3 Shuttle Cars 3 Ton capacity from Young Machinery Co. @ $3500.00 each	10,500.00	
1 Gas Driven blower 25 HP	1,390.00	
	$38,250.00	
Rental @ 5% per month for 12 months	$22,950.00	
Air line 4" Vic pipe 3000' @ $125.75/c	3,772.50	
3" Vic pipe 2000' @ $ 78.28/c	1,565.60	
Sundry pipe fittings, valves, etc.	1,303.00	
5000' 18" vent pipe 18 Ga. $1.90/ft.	9,500.00	
1 Reversing box for fan	100.00	$ 39,191.10

6)e) Rehabilitation and repairs

Roads	500.00	$ 500.00

6(f) New Buildings and Improvements

Compressor room and portal buildings	1,000.00	
Office and store room	1,000.00	$ 2,000.00
		$170,841.10
6(g) Contingencies - 10% of above		17,084.10
		$187,925.20

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EXHIBIT TO INSTRUCTION 7(b)

The applicant, WHITE CANYON JOINT VENTURE, proposes to furnish its share of the costs by a contribution of money and the use of equipment owned by applicant. The applicant is in the process of purchasing the operating equipment as listed in 6(d) of its estimated costs (Exhibit To Instructions 6(a), 6(b), 6(c), 6(d) and 6(f) and 6(g). This equipment having a total purchase price of $38,250.00 will be furnished on a contribution basis of 5% per month for 12 months or a total contribution of $22,950.00 and the balance of the applicant's contribution will be furnished by money.

As pointed out above, the applicant is in the process of purchasing the operating equipment to be used in the exploration program. This is necessary since the applicant, prior to approval of this application for aid, will commence the construction of an approach adit through Big Horn No. 2 claim to the applicant's claims. As noted in Exhibit To Instruction 5(c) the cost of constructing the approach adit will be borne entirely by the applicant and the applicant is not requesting a contribution towards the costs of this share of the exploration project.

WHITE CANYON JOINT VENTURE
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Seattle 4, Washington

EXHIBIT I
TO INSTRUCTION 3(d)

DECLARATION OF TRUST

TO ALL WHOM THESE PRESENTS MAY CONCERN:

WHEREAS, NEWAM COMPANY, the undersigned corporation, organized and existing under the laws of the State of Washington, has received from C. ALFRED FROST and MAXINE R. FROST, his wife, and KEITH B. REDD and DONNA H. REDD, his wife, of Monticello, Utah, a quit claim deed, dated July 23, 1954, recorded September 22, 1954, under entry No. K2665 in Book 195 of page 182-183 records of County Recorder, County of San Juan, State of Utah, conveying to NEWAM COMPANY that certain mining claim described as Big Jack No. 5, located in San Juan County, State of Utah, the notice of location thereof being recorded in Book 55, page 272, records of Recorder of San Juan County, Utah; and

WHEREAS, NEWAM COMPANY is named as Lessee in that certain Lease Agreement, dated the 20th day of May, 1954, recorded on September 22, 1954, under entry No. K2667 in Book 195, page 186 through 194 records of County Recorder, County of San Juan, State of Utah; wherein C. ALFRED FROST and MAXINE R. FROST, his wife, and KEITH B. REDD and DONNA H. REDD, his wife, leased to NEWAM COMPANY the following described mining claims in San Juan County, State of Utah, to-wit:

NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
Big Rocket No. 1	Not. of Location	47	187
" " " 2	" " "	47	187
" " " 3	" " "	47	188
" " " 4	" " "	47	188
" " " 5	" " "	47	189
" " " 6	" " "	57	213
" " " 7	" " "	57	213

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NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
Yellow Jack No. 1	Not. of Location	47	189
" " " 2	" " "	47	190
" " " 9	" " "	77	323
Lost Boy No. 3	Not. of Location	19	322
" " " "	Amend. Not. of Loc.	67	377
Buck No. 2	Not. of Location	47	186
" " "	Amend. Not. of Loc.	67	379
" " 3	Not. of Location	47	186
" " "	Amend. Not. of Loc.	61	380
Buck No. 4	Not. of Location	61	58
Big Jack No. 1	Not. of Location	55	272
" " " 2	" " "	55	272
" " " 3	" " "	55	273
" " " 4	" " "	55	273
" " " 6	" " "	69	263
" " " 7	" " "	69	264
" " " 8	" " "	69	264
" " " 9	" " "	69	265
Sun Dog No. 1	Not. of Location	47	484
" " " 2	" " "	47	485
" " " 3	" " "	47	485
" " " 4	" " "	47	486
" " " 5	" " "	47	486
Sun Dog No. 7			
Sun Dog No. 8			
Sun Dog No. 9			

and;

WHEREAS, by Agreement dated the 29th day of July, 1954, and recorded September 22, 1954, under entry No. 2666 in Book 195, pages 184-185, records of County Recorder, County of San Juan, State of Utah, the lease referred to in the paragraph next above written was modified to include in said lease the following described mining claims in San Juan County, State of Utah, to-wit:

NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
Sun Dog No. 11			
Big Sheep No. 2			
Big Sheep No. 3			
Big Sheep No. 4			
Big Sheep No. 5			
Big Sheep			

and;

WHEREAS, NEWAM COMPANY is named as Lessee in that certain Lease Agreement, dated the 20th day of May, 1954, recorded September 22, 1954, under entry No. K2668 in Book 195, pages 195 through 203, records of County Recorder, County of San Juan, State of Utah; wherein C. ALFRED FROST and MAXINE R. FROST, and KEITH B. REDD and DONNA H. REDD, and LISLE G. ADAMS and JEWELL R. ADAMS, and D. E. POORMON and BETH POORMON, leased to NEWAM COMPANY the following described mining claims in San Juan County, State of Utah, to-wit:

NAME OF CLAIM	KIND OF INSTRUMENT	BOOK	PAGE
Castle Myth No. 4	Not. of Location	55	276
" " " 5	" " "	55	277
" " " 6	" " "	55	277
" " " 7	" " "	55	278
" " " 8	" " "	55	278
" " " 9	" " "	55	279
" " " 10	" " "	55	279
" " " 11	" " "	55	280
" " " 12	" " "	55	280
" " " 13	" " "	55	281
" " " 14	" " "	55	281
" " " 18	" " "	69	258
" " " 19	" " "	69	258
" " " 20	" " "	69	259

and;

WHEREAS, said mining claims particularly mentioned aforesaid and/or conveyed to NEWAM COMPANY to be held by NEWAM COMPANY in trust; and

WHEREAS, CANYON EXPLORATIONS LIMITED, a Company incorporated under the laws of the Province of British Columbia, Canada, and CHARLES W. NASH, an individual, and NYAC DEVELOPMENT CO., a corporation, organized under the laws of the State of Washington, U. S. A., entered into a Memorandum of Agreement, dated the 29th day of July, 1954, and a Modification of Memorandum Agreement, dated the 10th day of July, 1954, said Agreement and Modification being incorporated herein by

reference as if set out in full, wherein said parties provided for the exploring, developing and mining of the above described mining claims, and wherein the respective interests of said parties in and to the above dexcribed mining claims and said leases thereof were set out in full.

NOW, THEREFORE, NEWAM COMPANY does hereby acknowledge and declare that it does not claim any right, title or interest in and to the above named mining claims and leases thereof except as Trustee for the purposes as herein set out, and NEWAM COMPANY further declares that it holds title or interest in and to said mining claims and/or leases thereof as Trustee for the benefit of said CANYON EXPLORATIONS LIMITED and CHARLES W. NASH and NYAC DEVELOPMENT COMPANY, as their respective interests may appear in that certain Memorandum of Agreement, as hereinabove described, dated July 29, 1954, and executed by said parties as modified by that certain Modification of Memorandum Agreement, described hereinabove, bearing date of the 10th day of July, 1954, and NEWAM COMPANY, for itself and assigns, covenants with said CANYON EXPLORATIONS LIMITED and CHARLES W. NASH and NYAC DEVELOPMENT COMPANY that it will take any and all actions or proceedings at said parties' expense, necessary to perfect and/or maintain said parties' interests in and to said mining claims upon instructions given by said parties pursuant to said Memorandum of Agreement, dated the 29th day of July, 1954, or modifications thereof, and that upon

request it will convey, sublet or assign said mining claims or leases thereof to such person or persons as said parties, pursuant to and under the terms of said Memorandum of Agreement, dated the 29th day of July, 1954, or modifications thereof, shall or may nominate or appoint.

IN WITNESS WHEREOF, this instrument has been executed by NEWAM COMPANY at Seattle, Washington, on the 12th day of December, 1954.

NEWAM COMPANY

By _____
President

By _____
Secretary

STATE OF WASHINGTON)
COUNTY OF K I N G) ss.

On this 17th day of December, 1954, before me personally appeared JAMES K. CROWDY and RAYMOND C. SWANSON, to me known to be the President and Secretary of NEWAM COMPANY, the corporation that executed the within and foregoing instrument called DECLARATION OF TRUST, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal affixed thereto is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

Notary Public in and for the State of Washington, residing at Seattle

EXHIBIT II
TO INSTRUCTION 3(d)

SUPPLEMENT TO DECLARATION OF TRUST

TO ALL WHOM THESE PRESENTS MAY CONCERN:

WHEREAS, NEWAM COMPANY by and through its President, James K. Crowdy and its Secretary, Raymond C. Swanson, did by instrument dated December 17, 1954, enter into a Declaration of Trust wherein said corporation did declare that it owned and/or leased certain mining claims in the County of San Juan State of Utah as trustee for the sole use and benefit of Nyac Development Company, Canyon Explorations Limited and Charles W. Nash; and

WHEREAS, certain mining claims have been included as additional claims under leases held by Newam Company; and

WHEREAS, certain other additional rights have been obtained,

NOW, THEREFORE, Newam Company does declare and acknowledge that it holds all right and title in and to the following instruments and/or mining claims, easements or rights subject to the burdens and liabilities there disclosed, for the entire use and benefit of the White Canyon Joint Venture consisting of Nyac Development Company, Canyon Explorations Limited and Charles W. Nash, all in accordance with the terms and conditions of the hereinabove mentioned DECLARATION OF TRUST executed by Newam Company on December 17, 1954; to-wit:

(1) AGREEMENT MODIFYING LEASE - dated February 26, 1955, recorded in Book 285, pages 345-347, records of San Juan County Recorder, State of Utah, wherein C. Alfred Frost and Maxine R. Frost, his wife, and Keith B. Redd and Donna H. Redd, his wife, as lessors leased to Newam Company as leasee, Sun Dog No. 6, Sun Dog No. 10 and Buck mining claims located in

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the White Canyon Mining District, County of San Juan, State of Utah subject to the terms and conditions of the lease entered into by said lessors and lessee on May 20, 1954, and wherein it was agreed that said lease of May 20, 1954, shall cover any and all rights which lessors have acquired or may thereafter acquire by reason of new locations or relocations of the said claims or the ground covered thereby; and

(2) AGREEMENT - dated February 26, 1955, by and between Big Horn Uranium Corporation, C. Alfred Frost, Keith B. Redd and Newam Company, recorded in book 285, pages 348-352, San Juan County Recorder's Office, State of Utah, wherein Big Horn Uranium Company granted to Newam Company a right of ingress and egress over and an easement for a tunnel through Lost Boy, Lost Boy No. 2 and Winchester mining claims located in San Juan County, State of Utah, all for the benefit of those certain mining claims under lease to Newam Company and all subject to the terms and conditions of said Agreement and further subject to the terms of that certain letter dated March 11, 1955, from Newam Company to Big Horn Uranium Company duly executed by James K. Crowdy and Raymond C. Swanson President and Secretary respectively of Newam Company, wherein Newam Company granted to Big Horn Uranium Company a joint use of a tunnel constructed pursuant to the aforementioned Agreement granting an easement for a tunnel.

IN WITNESS WHEREOF, this instrument has been executed by Newam Company, at Seattle, Washington, on the 31st day of March, 1955.

NEWAM COMPANY

By _____
President

By Raymond C. Swanson
Secretary

STATE OF WASHINGTON)
) ss.
COUNTY OF K I N G)

On this 31st day of March, 1955, before me personally appeared JAMES K. CROWDY and RAYMOND C. SWANSON, to me known to be the President and Secretary of NEWAM COMPANY, the corporation that executed the within and foregoing instrument called SUPPLEMENT TO DECLARATION OF TRUST, and acknowledged the said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that they were authorized to execute said instrument and that the seal affixed thereto is the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

William G. Johnson
Notary Public in and for the State
of Washington, residing at Seattle

EXHIBIT III
TO INSTRUCTION 3(d)

717.80

K26657

LEASE

THIS INDENTURE made this day between C. ALFRED FROST and MAXINE R. FROST, and KEITH B. REDD and DONNA H. REDD, hereinafter called First Party, and NEWAM ~~CORPORATION~~ COMPANY, hereinafter called Second Party,

WITNESSETH:

1- That the First Party, in consideration of the rents, royalties, covenants, and agreements hereinafter reserved and expressed to be paid and performed by Second Party, hereby lets and demises unto Second Party the following described mining claims, property, lodes or mineral rights, situated in the White Canyon Mining District, in the county of San Juan, State of Utah, to wit:

Big Rocket No. 1, 2, 3, 4, 5, 6, 7
Sun Dog No. 1, 2, 3, 4, 5, 7, 8, 9
Yellow Jack No. 1, 2, 9
Lost Boy No. 3
Buck No. 2, 3, 4
Big Jack No. 1, 2, 3, 4, 6, 7, 8, 9

Together with all appurtenances and improvements, and internal fractions thereof perfected or to be perfected, and all dips, spurs and angles, and all metals or ore and all the privileges and franchises thereto incident, appendant and appurtenant or usually had and enjoyed; to have and to hold unto said Second Party, its successors and assigns, for the period of twenty (20) years from date hereof, and for such other and further period of time as uranium ore or any other mineral or ore can, in Second Party's opinion, be produced in paying quantities in or on any one or more of the mining claims or tracts or parts thereof herein demised.

2- Second Party covenants with First Party as follows, to wit:

(A) Second Party shall pay to First Party as further consideration for this lease a royalty of fifteen (15%) percent of the base price, premium and initial production bonus received from the sale of all ore produced from the within demised claims and sold, with all development and transportation allowances paid by the government to be retained by Second Party. Such royalty payments to be paid within thirty (30) days after Second party receives its payments.

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(B) Second Party shall expend a minimum of Fifty Thousand Dollars ($50,000.00) on exploration and/or development work, including overhead and supervisory costs on any one or more of the within demised mining claims, and the fourteen (14) Castle Myth claims particularly mentioned in that certain Lease dated May 20, 1954, wherein the lessors are Lisle G. Adams and Jewell R. Adams, C. Alfred Frost and Maxine R. Frost, Keith B. Redd and Donna H. Redd, D. E. Poormon and Beth Poormon, and the lessee is Newam Company, within 12 months from the date hereof, unless prohibited from doing so by any governmental regulations, strikes, acts of God or other conditions beyond the control of Second Party, and excepting that said period shall be extended for an additional six months if Second Party is unable to expend said money for said purposes by reason of lack of equipment or competent technical personnel. Costs of surveying the within demises claims and Castle Myth claims aforesaid, shall be considered as exploration and/or development work for purposes of determining whether said $50,000.00 has been expended and there shall be credited to said $50,000.00 any and all expenditures on or for said mining claims by the Atomic Energy Commission or any other governmental agency or unit, but in the event the actual cost of work done on said claims by the Atomic Energy Commission or any other governmental agency or unit, is not available, then the reasonable value of such work shall be usedin determining the amount to be credited to said $50,000.00. In the event Second Party does not expend the $50,000.00 as in this paragraph required, then First Party's sole remedy for such failure shall be the right to terminate this lease as provided in paragraph three (3) hereof.

(C) Sufficient development work is to be done and recorded by Second Party to keep said mining claims in good standing subject to the provises herein for abandonment by Second Party of one or more of said claims.

(D) If uranium ore of commercial grade and quantity in the opinion of Second Party is discovered in the preliminary development work, then Second Party Shall proceed to bring the mining claims into production as rapidly as good and economic mining practice would require, and production is to be maintained at a reasonable rate consistent with good and

RKB C.A.J. HSK. DR U.R.J.

RKB C.A.J. HSK. DR U.R.J.

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economic mining practice would require, and production is to be maintained at a reasonable rate consistent with good and economical mining practices and shall continue so long as it is economically feasible to do so, or until this lease is terminated or expires as to all claims or as to the claim or claims upon which said production is occurring, but nothing herein contained shall require Second Party to work or put in production at any one time more than one of the within demised mining claims unless good and economical mining practices would dictate otherwise.

(E) Second Party shall work and mine said premises in a manner consistent with good and economical mining practices.

(F) Second Party shall allow First Party and his agents, consistent with government regulations, to enter into all parts of the within demised claims for purposes of inspection at reasonable times and intervals as is reasonably necessary for a proper inspection.

(G) Second Party shall keep proper and correct accounts and engineering and geological records; and Second Party shall render to First Party, from time to time, statements showing the amount of ore taken from the premises and the price received therefor and consistent with government regulations, First Party shall be allowed access to said accounts and records at reasonable times and intervals for purposes of inspection.

(H) Second Party upon the expiration of this lease or upon any abandonment, termination or forfeiture thereof, whether as to all or part of the within demised claims, shall supply First Party with copies of Second Party's technical data as to all said claims or parts thereof which are abandoned, or as to all said claims upon which this lease has expired or is terminated or forfeited except that Second Party need not supply copies of technical data which previous to said expiration, abandonment, termination or forfeiture has been supplied First Party.

(I) Second Party shall carry on all development and mining operations in strict conformity with all Federal, State and local laws and regulations pertaining thereto and shall maintain Workmen's Compensation Insurance, and to defend at its own expense and cost any claim or law suit arising

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out of the operations of the Second party on the properties leased hereunder, and Second Party agrees to hold First Party harmless from liability therefrom and to indemnify the First Party against all damage, loss, cost and expenses on account thereof. The Second Party shall post upon a conspicuous place near the work a notice providing in effect that he shall and not the First Party, be liable for any debts, liabilities or claims of any kind of third persons arising out of the Second Party's operations under this lease.

3- In the event Second Party violates any of the covenants or conditions of this agreement, the term of this lease shall, at the option of the First Party, expire, and Second Party shall deliver up possession of the within described premises, provided that said expiration shall not occur unless and until First Party by registered letter, deposited in the United States Post Office addressed to Second Party, gives notice of intent to terminate this lease, listing the manner or manners in which Second Party is violating this agreement and giving Second Party sixty (60) days in which to correct said violations, and if within said time Second Party does perform or put this agreement in good standing, then said expiration or termination shall not occur.

4- Second Party may at its option, and without violating any terms or conditions of this agreement, abandon any one or more, or all of the within demised mining claims, by notice in writing in the form of a registered letter, deposited prior to the 31st day of March of any year in the United States Post Office, addressed to First Party, or either of them, at their last known address, but the abandonment of one or more of said claims shall not terminate this lease as to the remaining said claims, if any.

5- Upon the expiration of this lease or upon any abandonment, termination or forfeiture thereof, whether as to all or part of the within demised claims, Second Party shall have six (6) months in which to remove from any one or more or all of said claims, any or all of its engines, railroad tracks, machinery, equipment, tools, structures placed by Second Party on the claim, and any

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personal property whatsoever, but shall not remove or impair any supports, timbers or framework placed in any mines, tunnels or shafts necessary to the use and maintenance thereof.

6- First Party authorizes Second Party as First Party's agent, at any time at Second Party's election, to apply for patents from the United States Government on behalf of First Party for any one or more or all of the within demised claims, and First Party agrees to sign and execute and take all steps necessary to perfect said patent, or if Second Party elects so to do, First Party agrees, without Second Party acting as agent, to apply for and secure said patents subject to Second Party having completed sufficient development work on the claim or claims sought to be patented. It is further agreed that the costs of securing said patent or patents shall be at the expense of Second Party, and that all rights and title secured by First Party under said patent or patents shall be subject to this lease as if said patent or patents were demised herein, and at Second Party's request, First Party will execute a supplemental lease indenture to perfect of record Second Party's leasehold interest in said patent or patents to be secured, and containing the same terms and conditions as the within agreement has been performed, and except as to the description of the property demised. First Party agrees to execute any and all further documents or instruments necessary to perfect Second Party's leasehold interest of record in said patent, patents or the land evidenced thereby or in the within demised mining claims, claim or the land evidenced thereby.

7- First Party warrants, covenants and agrees to and with Second Party that at the execution hereof they are the lawful owners of the within demised mining claims and the rights and interests thereunder, and have a good, sufficient and marketable title thereto free of adverse claims or adverse locations, liens and encumbrances, and that they have good right and authority to lease, sell and convey the same.

8- In case of suit, adverse claim, dispute or question as to the ownership of said mining claims included in this lease, Second Party will have

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the option to withhold payment of such royalties as are herein provided, or any part thereof, until such suit, claim, dispute or question has been finally disposed of and Second Party shall thirty days after being furnished with the original instrument or instruments disposing of such suit, claim, dispute or question, or a certified copy or copies thereof, or after being furnished with proof sufficient in Second Party's opinion to settle such question, within which to make payment of said royalties; provided, however, that should it be determined that First Party did not have good title to said claims or a portion thereof, then and in that event, the Second Party can retain for its own use out of such royalty payments as have been withheld a sum which is equal to $790 per claim which it is determined that First Party did not have good title thereto.

9- It is understood between the parties hereto that in order to carry out the terms, conditions and objects of this lease, Second Party plans to utilize appropriate governmental programs, financing, bonuses and other advantages offered by the United States Government as inducements to explore, develop and produce uranium ore and other valuable minerals, and First Party agrees to authorize, consent to, and hereby does authorize and consent to the Second party's entering into agreements for and/or securing any loans, advancements, financing, bonuses or other monetary inducements from the United States Government, such as loans made by the Defense Minerals Exploration Administration and/or the Atomic Energy Commission for exploration, development and production of defense minerals, and First Party agrees to execute all necessary instruments, documents, agreements, consents and authorizations as are necessary to enable Second Party to secure said loans, advancements, financing, bonuses or other monetary inducements, and First Party's agreement contained in this paragraph shall bind First Party even though said loans, advancements, financing, bonuses or other monetary inducements become or are a lien or encumbrance upon or against the within demised claims or any of them, or any patents thereof, or are liens, encumbrances against, or will be repaid from minerals or ores subsequently

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mined or to be produced from said claims or any of them or patents thereof, except that in no event will First Party agree to become personally liable for the repayment of such loans, advancements, financing, bonuses or other monetary inducements. First Party's covenants and agreements in this paragraph contained shall apply not only to loans, advancements, financing, bonuses or other monetary inducements. First Party's covenants and agreements in this paragraph contained shall apply not only to loans, advancements, financing, bonuses or other monetary inducements, but shall also apply to arrangements whereby the United States Government or any agencies thereof, will or may be induced to perform exploration, development or production work or any other beneficial work on said claims or parts, patents, extensions or appurtenances thereof or thereto.

10- First Party covenants and agrees that Second Party shall have the right under this lease to contract with others to work the within demised claims or any part thereof, or to subcontract the same.

11- In the event said claims or any portion thereof are in conflict with prior oil and gas leases issued by virtue of the Mineral Leasing Act of 1920, and it is necessary to make application to the Atomic Energy Commission of a lease of the above described mining properties, that the First Party will forthwith proceed to obtain such lease, provided that the Second Party pays all expenses thereto, and after the first Party has obtained such lease it shall assign the same to the Second Party upon terms and conditions consistent with the terms and conditions contained in this lease.

12- It is the mutual understanding of the parties hereto that the Second Party will do more than just "sit" on said claims, and not do any more than the minimum assessment work which needs to be done each year.

13- Notwithstanding anything hereinbefore contained, the Parties mutually understand and agree that this Lease and all rights created hereunder will cease and determine as of July 15, 1954 unless the Second Party shall exercise a certain option given to it on the even date of this agreement by the First Party, wherein the Second Party is given option to purchase

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the Big Jack No. 5 mining claim for $35,000.00, which purchase price is to be paid July 15, 1954. If the Second Party so purchases the Big Jack No. 5 mining claim and makes complete and full payment therefor as provided in that certain option agreement, then this Lease Agreement and all provisions herein are to remain in full force and effect.

14- For purposes of giving the notices required by this lease, the address for the First Party is Monticello, Utah.

15- All the grants, covenants, stipulations, agreements and conditions herein expressed shall run with the land and apply to and bind the heirs, executors, administrators, successors and assigns, as the case may be, of the respective parties, and said grants, covenants, stipulations, agreements and conditions of First Party shall be binding jointly and/or severally on the undersigned C. ALFRED FROST and MAXINE R. FROST, and KEITH B. REDD and DONNA H. REDD, and it is expressly agreed that the parties hereto have the privilege of assigning, or subletting in whole or in part their respective interests herein, but no change in ownership of the within demised claim or patents thereof or of the royalties herein shall be binding on second Party until after Second Party has been furnished a written transfer, assignment or a true copy thereof.

IN WITNESS WHEREOF, the parties hereto have set their hands this 20th day of May, 1954.

C. Alfred Frost
C. Alfred Frost

Maxine R. Frost
Maxine R. Frost

Keith B. Redd
Keith B. Redd

Donna H. Redd
Donna H. Redd
FIRST PARTY

NEWAM ~~CORPORATION~~ COMPANY

ATTEST:

Raymond Swanson
Secretary

By Richard T. Beal
President
SECOND PARTY

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

STATE OF UTAH)
) ss.
COUNTY OF SAN JUAN)

On this day before me personally appeared C. Alfred Frost and Maxine R. Frost, Keith B. Redd and Donna H. Redd, to me known to be the individuals described in and who executed the within instrument, and acknowledged to me that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

WITNESS my hand and official seal this 20th day of May, 1954.

F. Bennion Redd
Notary Public in and for the State of Utah, residing at Monticello, Utah.

My commission expires 6-14-55.

STATE OF Washington)
) ss.
COUNTY OF King)

On the 3rd day of June, A.D. 1954, personally appeared before me RICHARD K. BUSH and RAYMOND C. SWANSON who being by me duly sworn did say, each for himself, that he, the said RICHARD K. BUSH is president, and he, the said RAYMOND C. SWANSON, is secretary of NEWAM ~~CORPORATION~~ COMPANY, and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its board of directors and said RICHARD K. BUSH and RAYMOND C. SWANSON each duly acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

Notary Public

Residence: Seattle, Washington

Commission
June 15, 1954

ENTRY NO. K2667 186
9-22-54 AT 3:50 P 195 194
ARVILLA E. WARREN, San Juan County, Utah
17.80 BY

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

EXHIBIT IV
TO INSTRUCTION 3(d)

K2668

LEASE

THIS INDENTURE made this day between Lisle G. Adams and Jewell R. Adams, C. Alfred Frost and Maxine R. Frost, and Keith B. Redd and Donna R. Redd, and D. E. Poorman and Beth Poorman, hereinafter called First Party, and NEWMAN COMPANY ~~CORPORATION~~, hereinafter called Second Party.

WITNESSETH:

1- That the First Party, in consideration of the rents, royalties, covenants, and agreements hereinafter reserved and expressed to be paid and performed by Second Party, hereby lets and demises unto Second Party the following described mining claims, property, lodes or mineral rights, situated in the White Canyon Mining District, in the county of San Juan, State of Utah, to wit:

Castle Myth No. 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 18, 19, 20.

Together with all appurtenances and improvements, and internal fractions thereof perfected or to be perfected, and all dips, spurs and angles, and all metals or ore and all the privileges and franchises thereto incident, appendant and appurtenant or usually had and enjoyed; to have and to hold unto said Second Party, its successors and assigns, for the period of twenty (20) years from date hereof, and for such other and further period of time as uranium ore or any other mineral or ore can, in Second Party's opinion, be produced in paying quantities in or on any one or more of the mining claims or tracts or parts thereof herein demised.

2- Second Party covenants with First Party as follows, to wit:

(A) Second Party shall pay to First Party as further consideration for this lease a royalty of fifteen (15%) percent of the base price, premium and initial production bonus received from the sale of all ore produced from the within demised claims and sold, with all development and transportation allowances paid by the government to be retained by Second Party. Such royalty payments to be paid within thirty (30) days after Second party receives its payments.

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

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(B) Second Party shall expend a minimum of One Dollar (1.00) on exploration and/or development work, including overhead and supervisory costs on any one or more of the within demised mining claims, within twelve (12) months from the date hereof, unless prohibited from doing so by any governmental regulations, strikes, acts of God or other conditions beyond the control of Second Party, and excepting that said period shall be extended for an additional six months if Second Party is unable to expend said money for said purposes by reason of lack of equipment or competent technical personnel. Costs of surveying the within demised claims shall be considered as exploration and/or development work for purposes of determining whether said One Dollar has been expended and there shall be credited to said One Dollar any and all expenditures on or for said mining claims by the Atomic Energy Commission or any other governmental agency or unit, but in the event the actual cost of work done on said claims by the Atomic Energy Commission or any other governmental agency or unit, is not available, then the reasonable value of such work shall be used in determining the amount to be credited to said One Dollar. In the event Second Party does not expend the One Dollar as in this paragraph required, then First Party's sole remedy for such failure shall be the right to terminate this lease as provided in paragraph ~~four (4)~~ three (3) hereof.

(C) Sufficient development work is to be done and recorded by Second Party to keep said mining claims in good standing subject to the provisos herein for abandonment by Second Party of one or more of said claims.

(D) If uranium ore of commercial grade and quantity in the opinion of Second Party is discovered in the preliminary development work, then Second Party shall proceed to bring the mining claims into production as rapidly as good and economic mining practice would require, and production is to be maintained at a reasonable rate consistent with good and

RHB
MR.
MR. F.
C.A.J.
L.A.
DR
DEP
L.G.A.

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

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economic mining practice would require, and production is to be maintained at a reasonable rate consistent with good and economical mining practices and shall continue so long as it is economically feasible to do so, or until this lease is terminated or expires as to all claims or as to the claim or claims upon which said production is occurring, but nothing herein contained shall require Second Party to work or put in production at any one time more than one of the within demised mining claims unless good and economical mining practices would dictate otherwise.

(E) Second Party shall work and mine said premises in a manner consistent with good and economical mining practices.

(F) Second Party shall allow First Party and his agents, consistent with government regulations, to enter into all parts of the within demised claims for purposes of inspection at reasonable times and intervals as is reasonably necessary for a proper inspection.

(G) Second Party shall keep proper and correct accounts and engineering and geological records; and Second party shall render to First Party, from time to time, statements showing the amount of ore taken from the premises and the price received therefor and consistent with government regulations, First Party shall be allowed access to said accounts and records at reasonable times and intervals for purposes of inspection.

(H) Second Party upon the expiration of this lease or upon any abandonment, termination of forfeiture thereof, whether as to all or part of the within demised claims, shall supply First Party with copies of Second Party's technical data as to all said claims or parts thereof which are abandoned, or as to all said claims upon which this lease has expired or is terminated or forfeited except that Second Party need not supply copies of technical data which previous to said expiration, abandonment, termination or forfeiture has been supplied First Party.

(I) Second Party shall carry on all development and mining operations in strict conformity with all Federal, State and local laws and regulations

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

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pertaining thereto and shall maintain Workmen's Compensation Insurance, and to defend at its own expense and cost any claim or law suit arising out of the operations of the Second Party on the properties leased hereunder, and Second Party agrees to hold First Party harmless from liability therefrom and to indemnify the First Party against all damage, loss, cost and expenses on account thereof. The Second Party shall post upon a conspicuous place near the work a notice providing in effect that he shall and not the First Party, be liable for any debts, liabilities or claims of any kind of third persons arising out of the Second Party's operations under this lease.

3- In the event Second Party violates any of the covenants or conditions of this agreement, the term of this lease shall, at the option of the First Party, expire, and Second Party shall deliver up possession of the within described premises, provided that said expiration shall not occur unless and until First Party by registered letter, deposited in the United States Post Office addressed to Second Party, gives notice of intent to terminate this lease, listing the manner or manners in which Second Party is violating this agreement and giving Second Party sixty (60) days in which to correct said violations, and if within said time Second Party does perform or put this agreement in good standing, then said expiration or termination shall not occur.

4- Second Party may at its option, and without violating any terms or conditions of this agreement, abandon any one or more, or all of the within demised mining claims, by notice in writing in the form of a registered letter, deposited prior to the 31st day of March of any year in the United States Post Office, addressed to First Party, or either of them, at their last known address, but the abandonment of one or more of said claims shall not terminate this lease as to the remaining said claims, if any.

5- Upon the expiration of this lease or upon any abandonment, termination or forfeiture thereof, whether as to all or part of the within demised claims, Second Party shall have six (6) months in which to remove from any

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

one or more or all of said claims, any or all of its engines, railroad tracks, machinery, equipment, tools, structures placed by Second Party on the claim, and any personal property whatsoever, but shall not remove or impair any supports, timbers or framework placed in any mines, tunnels or shafts necessary to the use and maintenance thereof.

6- First Party authorizes Second Party as First Party's agent, at any time at Second Party's election, to apply for patents from the United States Government on behalf of First Party for any one or more or all of the within demised claims, and First Party agrees to sign and execute and take all steps necessary to perfect said patents, or if Second Party elects so to do, First Party agrees, without Second Party acting as agent, to apply for and secure said patents subject to Second Party having completed sufficient development work on the claim or claims sought to be patented. It is further agreed that the costs of securing said patent or patents shall be at the expense of Second Party, and that all rights and title secured by First Party under said patent or patents shall be subject to this lease as if said patent or patents were demised herein, and at Second Party's request, First Party will execute a supplemental lease indenture to perfect of record Second Party's leasehold interest in said patent or patents to be secured, and containing the same terms and conditions as the within agreement has been performed, and except as to the description of the property demised. First Party agrees to execute any and all further documents or instruments necessary to perfect Second Party's leasehold interest of record in said patent, patents or the land evidenced thereby or in the within demised mining claims, claim or the land evidenced thereby.

7- First Party warrants, covenants and agrees to and with Second Party that at the execution hereof they are the lawful owners of the within demised mining claims and the rights and interests thereunder, and have a good, sufficient and marketable title thereto free of adverse claims or adverse locations, liens, and encumbrances, and that they have good right and authority to lease, sell and convey the same.

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

8-In case of suit, adverse claim, dispute or question as to the ownership of said mining claims included in this lease, Second Party will have option to withhold payment of such royalties as are herein provided, or any part thereof, until such suit, claim, dispute or question has been finally disposed of and Second Party shall thirty days after being furnished with the original instrument or instruments disposing of such suit, claim, dispute or question, or a certified copy or copies thereof, or after being furnished with proof sufficient in Second Party's opinion to settle such question, within which to make payment of said royalties; provided, however, that should it be determined that First Party did not have good title to said claims or a portion thereof, then and in that event, the Second Party can retain for its own use out of such royalty payments as have been withheld a sum which is equal to $790 per claim which it is determined that First Party did not have good title thereto.

9- It is understood between the parties hereto that in order to carry out the terms, conditions and objects of this lease, Second Party plans to utilize appropriate governmental programs, financing, bonuses and other advantages offered by the United States Government as inducements to explore, develop and produce uranium ore and other valuable minerals, and First Party agrees to authorize, consent to, and hereby does authorize and consent to the Second Party's entering into agreements for and/or securing any loans, advancements, financing, bonuses or other monetary inducements from the United States Government, such as loans made by the Defense Minerals Exploration Administration and/or the Atomic Energy Commission for exploration, development and production of defense minerals, and First Party agrees to execute all necessary instruments, documents, agreements, consents and authorizations as are necessary to enable Second Party to secure said loans, advancements, financing, bonuses or other monetary inducements, and First Party's agreement contained in this paragraph shall bind First Party even though said loans, advancements, financing, bonuses or other monetary inducements become or are a lien or encumbrance upon or against the within demised claims or any of them, or any patents thereof, or are liens,

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

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encumbrances against, or will be repaid from minerals or ores subsequently mined or to be produced from said claims or any of them or patents thereof, except that in no event will First Party agree to become personally liable for the repayment of such loans, advancements, financing, bonuses or other monetary inducements. First Party's covenants and agreements in this paragraph contained shall apply not only to loans, advancements, financing, bonuses or other monetary inducements, but shall also apply to arrangements whereby the United States Government or any agencies thereof, will or may be induced to perform exploration, development or production work or any other beneficial work on said claims or parts, patents, extensions or appurtenances thereof or thereto.

10- First Party covenants and agrees that Second Party shall have the right under this lease to contract with others to work the within demised claims or any part thereof, or to subcontract the same.

11- In the event said claims or any portion thereof are in conflict with prior oil and gas leases issued by virtue of the Mineral Leasing Act of 1920, and it is necessary to make application to the Atomic Energy Commission of a lease of the above described mining properties, that the First Party will forthwith proceed to obtain such lease, provided that the Second Party pays all expenses thereto, and after the first Party has obtained such lease it shall assign the same to the Second Party upon terms and conditions consistent with the terms and conditions contained in this lease.

12- It is the mutual understanding of the parties hereto that the Second Party will do more than just "sit" on said claims, and not do any more than the minimum assessment work which needs to be done each year.

13- For purposes of giving the notices required by this lease, the address for the First Party is Monticello, Utah.

14- All the grants, covenants, stipulations, agreements and conditions herein expressed shall run with the land and apply to and bind the heirs, executors, administrators, successors and assigns, as the case may be, of the respective parties, and said grants, covenants, stipulations, agreements

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

and conditions of First Party shall be binding jointly and/or severally on the undersigned Lisle G. Adams and Jewell R. Adams, and D. E. Poorman and Beth Poorman, and it is expressly agreed that the parties hereto have the privilege of assigning, or subletting in whole or in part their respective interests herein, but no change in ownership of the within demised claim or patents thereof or of the royalties herein shall be binding on Second Party until after Second Party has been furnished a written transfer, assignment or a true copy thereof.

IN WITNESS WHEREOF, the parties hereto have set their hands this 20th day of May, 1954.

C. Alfred Frost
C. Alfred Frost

Lisle G. Adams
Lisle G. Adams

Maxine R. Frost
Maxine R. Frost

Jewell R. Adams
Jewell R. Adams

Keith B. Redd
Keith B. Redd

D E Poorman
D. E. Poorman

Beth Poorman
Beth G. Poorman
Beth Poorman

Donna H. Redd
Donna H. Redd

FIRST PARTY

NEWAM ~~CORPORATION~~ COMPANY

By Richard L. Bush
President

SECOND PARTY

ATTEST:

Raymond Swanson
Secretary

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

STATE OF UTAH)
COUNTY OF SAN JUAN) ss.

On this day before me personally appeared C. Alfred Frost and Maxine R. Frost, Keith B. Redd and Donna H. Redd, Lisle G. Adams and Jewell R. Adams, D. E. Poorman and Beth Poorman, to me known to be the individuals described in and who executed the within instrument, and acknowledged to me that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal this 20th day of May, 1954.

F. Bennion Redd
Notary Public in and for the State of Utah, residing at Monticello, Utah.

My Commission expires 6-14-55.

STATE OF Washington)
County of King) ss.

On the 3rd day of June, A.D. 1954, personally appeared before me RICHARD K. BUSH and RAYMOND C. SWANSON who being by me duly sworn did say, each for himself, that he, the said RICHARD K. BUSH is president, and he, the said RAYMOND C. SWANSON, is secretary of NEWAM ~~CORPORATION~~ COMPANY, and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its board of directors and said RICHARD K. BUSH and RAYMOND C. SWANSON each duly acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

Notary Public
Residence: Seattle, Wash.

Commission Expires
June 15, 1954

ENTRY NO. 152668 195-
RECORDED 9-22-54 AT 2 35 P M IN BOOK 195 PAGE 203
FEE PAID $12.80 ARVILLA S. WARREN, SAN JUAN COUNTY RECORDER BY [illegible] DEPUTY

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

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SEP 22 2 : 04 '54

EXHIBIT V
TO INSTRUCTION 3(d)

A26655

This Deed, Made this 23d day of July in the year of our Lord one thousand nine hundred and Fifty-four, between C. Alfred Frost and Maxine R. Frost, his wife, and Keith B. Redd and Donna H. Redd, his wife, of Monticello, Utah

parties of the first part,

and Newam Company, a corporation

the party of the second part,

WITNESSETH, that the said parties of the first part, for and in consideration of the sum of -------Ten and no/100----------DOLLARS, and other considerations, lawful money, to us paid by the party of the second part, the receipt whereof is hereby acknowledged, by these presents do grant, bargain, sell, remise, release and forever quit-claim unto the said party of the second part, and assigns, forever all our certain rights to land Mining claim and property situate in White Canyon Mining District, San Juan County, State of Utah, viz.:

That one certain mining claim known as BIG JACK NO. 5, which was located on January 16, 1954, and of which the Notice of Location was recorded February 8, 1954 in Book 55, page 274, Records of San Juan County, Utah

TOGETHER with all dips and spurs, rights, privileges and franchises, tenements, hereditaments and appurtenances thereto incident or belonging, or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy, of the parties of the first part, of, in or to said premises, and every part thereof.

TO HAVE AND TO HOLD the same unto the party of the second part, and assigns forever.

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

IN WITNESS WHEREOF the said parties of the first part have hereunto set our hands and seals the day and year first above written.

Signed, Sealed and Delivered in Presence of

C. Alfred Frost
Maxine R. Frost
Keith B. Redd
Donna H. Redd

STATE OF Utah
County of San Juan } ss.

On the 23d day of July, A. D. 1954 personally appeared before me C. Alfred Frost and Maxine R. Frost, his wife, and Keith B. Redd and Donna H. Redd, his wife,

the signers of the above instrument, who duly acknowledged to me that they executed the same.

B. Bonnie Redd
Notary Public.
Residing at Monticello, Utah.

My commission expires 6-14-55

No. 12665

Mining Deed
(QUIT CLAIM)

C. Alfred Frost et ux
Keith B. Redd et ux
TO
Newman Co

Dated _____, 19

Recorded at the Request of

_____, A. D. 19

at 33 min. past 2 o'clock M.,
in Book 195 of
page 182-183

Carrella E. Warren
Recorder. _____ County

Fee Paid 2.20

BLANK No. 37—NARROW FORM, 68 W. 2ND SOUTH, SALT LAKE

SEP 22 2 35 PM '54

K 25666

EXHIBIT VI
TO INSTRUCTION 3(d)

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

MODIFICATION OF LEASE

Agreement made this 29th day of July, 1954 between C. Alfred Frost and Maxine R. Frost, his wife, and Keith B. Redd and Donna H. Redd, his wife, hereinafter called Lessor, and Newam Company, a corporation, hereinafter called Lessee.

WHEREAS, by a lease dated May 20, 1954, the Lessor let to Lessee for a term of twenty (20) years the following named mining claims, to-wit: Big Rocket #1, #2, #3, #4, #5, #6, #7, Sun Dog #1, #2, #3, #4, #5, #7, #8, #9, Yellow Jack #1, #2, #9, Lost Boy #3, Buck #2, #3, #4, and Big Jack #1, #2, #3 #4, #6, #7, #8, #9, and

WHEREAS, said lease does not include an additional six mining claims named as follows, to-wit: SunDog #11, Big Sheep, Big Sheep #2, #3, #4, and #5, and

WHEREAS, the parties desire to modify said lease so as to provide that the last named six mining claims shall be included within the terms of said mining lease,

NOW, THEREFORE, in consideration of Ten Dollars ($10.00) and other valuable considerations, it is mutually agreed that said lease shall be modified as follows: that the following named mining claims, to-wit, Sun Dog #11, and Big Sheep, Big Sheep #2, #3, #4, and #5, shall be included as a part of the mining claims which are demised by the terms of said lease.

All the other terms and conditions of said lease shall continue to remain in full force and effect except as herein modified, and all such terms and conditions shall apply to the additional six mining claims which are named in this modification.

WITNESS the hand and the seal of the parties hereto the day and year first above mentioned.

C. Alfred Frost

Maxine R. Frost

Keith B. Redd

Donna H. Redd

NEWAM COMPANY a corporation

By Richard T. Bush
President

Attest: Raymond C. Swanson
Secretary

State of Utah)
County of San Juan) ss.

On this day before me personally appeared C. Alfred Frost and Maxine R. Frost, Keith B. Redd and Donna H. Redd, to me known to be the individuals described in and who executed the within instrument, and who acknowledged to me that they signed and sealed the same and their free and voluntary act and deed for the uses and purposes therein mentioned.

Witness my hand and official seal this 29th day of July, 1954.

F. Bennion Redd
Notary Public residing at
Monticello, Utah

My commission expires 8-14-55

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

C.A.F.
M.R.F.
K.B.R.
D.H.R.

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State of Washington)
County of Kane) ss.

On the 4th day of August, 1954, personally appeared before me Richard K. Bush and Raymond C. Swanson, who being by me duly sworn, did say, each for himself, that he, the said Richard K. Bush is president, and he, the said Raymond C. Swanson is secretary of Newam Company, a corporation, and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Richard K. Bush and Raymond C. Swanson each duly acknowledged to me that said corporation executed the same, and that the seal affixed is the seal of said corporation.

William [illegible]
Notary public residing at
Seattle, Washington

My Commission Expires May 6, 1958

ENTRY NO. 112666 184
RECORDED 9-22-54 AT 2 35 P. IN BOOK 195 PAGE 185
FEE PAID ARVILLA E. WALKER, SAN JUAN COUNTY RECORDER
$9.40 BY [illegible] DEPUTY

F. BENNION REDD
ATTORNEY AT LAW
MONTICELLO, UTAH

$10.80

MAR 21 9 49 AM '55
ARVILLA E. WARREN
RECORDER, SAN JUAN COUNTY
BY ___

M. 12016

EXHIBIT VII
TO INSTRUCTION 3(d)

AGREEMENT MODIFYING LEASE

THIS AGREEMENT made this 26th day of February, 1955, by and between C. ALFRED FROST and MAXINE R. FROST, his wife, and KEITH B. REDD and DONNA H. REDD, his wife, hereinafter designated "LESSORS" and NEWAM COMPANY, a corporation, hereinafter designated "LESSEE";

W I T N E S S E T H:

On or about the 20th day of May, 1954, the said Lessors and said Lessee entered into a Lease Agreement covering the following described unpatented mining claims located in White Canyon Mining District, San Juan County, State of Utah, to-wit: Big Rocket No. 1, 2, 3, 4, 5, 6, 7; Sun Dog No. 1, 2, 3, 4, 5, 7, 8, 9; Yellow Jack No. 1, 2, 9; Lost Boy No. 3; Buck No. 2, 3, 4; Big Jack No. 1, 2, 3, 4, 6, 7, 8, 9; said Lease Agreement is recorded in Book 195 at Page 186-194, Records of the County Recorder at San Juan County, State of Utah; on or about the 29th day of July, 1954, the said Lessors and the said Lessees entered into an Agreement modifying the said lease to include additional claims. Said modification of Lease is recorded in Book 195 at Page 184-185, Office of the County Recorder of San Juan County, State of Utah.

Subsequent to the date of the said Lease the Lessors or their predecessors in title have relocated part of the above described claims, to-wit, those claims lying partially or entirely within Section 8, Township 35 South, Range 15 East, SLB&M, San Juan County, State of Utah. The purpose of the said relocation of claims was to avoid any question as to lessors' title which might have been occa-

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

sioned by an Application for Withdrawal of said Section 8 by the Atomic Energy Commission.

The purpose of this Agreement is twofold. One, to modify the said Lease of May 20, 1954, to include three additional mining claims, and two, to establish that the said Lease covers not only the claims and rights described in the original Lease and the said Lease Modification, but also any and all rights in and to said claims and the ground covered thereby which may have been acquired by said Lessors by relocation of said claims.

NOW THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other valuable consideration, receipt of which is hereby acknowledged, it is mutually agreed as follows:

1. That the said Lease of May 20, 1954, be and the same is hereby amended to include as additional claims under said Lease the following: Sun Dog No. 6, Sun Dog No. 10 and Buck. Said claims shall be included as a part of the mining claims which are demised under the terms of the said Lease. All the other terms and conditions of the Lease shall continue to remain in full force and effect and all such terms and conditions shall apply to the additional ~~two~~ three mining claims which are named herein.

2. It is mutually agreed that the said Lease shall cover any and all rights which lessors have acquired or may hereafter acquire by reason of new locations or relocations of the said claims or the ground covered thereby.

WITNESS the hands and seals of the parties hereto the day and year first above mentioned.

C. Alfred Frost

C. Alfred Frost

Maxine R. Frost

Maxine R. Frost

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Keith B. Redd

Keith B. Redd

Donna H. Redd

Donna H. Redd

LESSORS

NEWAM COMPANY, a corporation

BY Leige G. Robbins
Its President
Vice

ATTEST:

Raymond Swanson
Secretary

STATE OF UTAH)
: ss.
County of San Juan)

On this 28th day of February, 1955, personally appeared before me C. ALFRED FROST and MAXINE R. FROST, his wife, KEITH B. REDD and DONNA H. REDD, his wife, to me known to be the individuals described in and who executed the within instrument, and who acknowledged to me that they signed and sealed the same of their free and voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal this 28th day of February, 1955.

Dorothy W. Culver
Notary Public, residing in ~~Salt Lake City~~ Monticello, Utah

My Commission expires:
January 18, 1959

STATE OF WASHINGTON)
: ss.
County of ~~Kane~~ King)

On the 26th day of February, 1955, personally appeared before me Leige G. Robbins and Raymond Swanson who being by me duly sworn did say, each for himself, that he, the said Leige G. Robbins is Vice President, and that he, the said

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Raymond C. Swanson is Secretary, of Newam Company, a corporation, and that the within and foregoing instrument is signed in behalf of said corporation by authority of a resolution of its Board of Directors and the said Earl H. Robbins and Raymond C. Swanson each duly acknowledged to me that said corporation executed the same, and that the seal affixed is the seal of said corporation.

Richard L. Rush
Notary Public, residing at
Seattle, Washington

My commission expires:

May 3, 1958

Entry No. M12016 344
Recorded 3-21-55 At 9 49a M. Book 285 Page 347
FEE PAID
ARVILLA E. WARREN,
San Juan County Recorder
$1.00 By ..... Deputy

EXHIBIT VIII
TO INSTRUCTION 3(d)

MAR 21 9 50 AM '55

ARVILLA E. WARREN
RECORDER, SAN JUAN COUNTY
BY

m

AGREEMENT

AGREEMENT made this 26th day of February, 1955, between Newam Company, a corporation, hereinafter referred to as First Party, Big Horn Uranium Corporation, a corporation, hereinafter referred to as Second Party, and C. Alfred Frost and Keith B. Redd, hereinafter referred to as Third Party.

W I T N E S S E T H:

WHEREAS, Second Party is the owner of certain mining claims in the White Canyon Mining District, San Juan County, Utah; and

WHEREAS, the First Party is a lessee operating certain mining claims in the said White Canyon Mining District, San Juan County, Utah, known as BIG ROCKET Nos. 1 through 7; SUN DOG Nos. 1 through 10; YELLOW JACK Nos. 1, 2 and 9; LOST BOY No. 3; BUCK; BUCK Nos. 2, 3 and 4; BIG JACK Nos. 1 through 4 and 7 through 9; and

WHEREAS, the Third Party is the owner of certain mining claims in the White Canyon Mining District, San Juan County, Utah; and

WHEREAS, it is the desire of the parties to cooperate in the operation of their respective claims and to peaceably resolve any difference which might exist.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, it is mutually agreed as follows:

1. That First Party will, for the benefit of the Second Party, procure a quitclaim deed from Lowell A. Kuebler, et ux., and R. H. Beaton, et ux., conveying to the Second Party the hereinafter-named mining claims:

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

POLARIS NO. 1 FRACTION
POLARIS NO. 2
POLARIS NO. 3

2. That the First Party will procure for the benefit of the Third Party a quitclaim deed from Lowell A. Kuebler, et ux., and R. H. Beaton, et ux., conveying to the Third Party the following-named mining claims:

RAINBOW NO. 1
RAINBOW NO. 2 FRACTION
RAINBOW NOS. 4 to 9, inclusive

3. That First Party and Third Party agree to modify that certain lease between them, dated May 20, 1954, so that there shall be included in said lease, in addition to the claims already named therein, the following mining claims:

BUCK
SUN DOG NO. 6
SUN DOG NO. 10

4. Second Party does hereby grant to First Party a right of ingress and egress over the LOST BOY, LOST BOY NO. 2, and WINCHESTER mining claims so that the First Party will have access for the purpose of transporting men, equipment, ores, and supplies to and from the BUCK NOS. 2, 3 and 4 and LOST BOY NO. 3 and other mining claims which the First Party has leased from the Third Party.

5. The Second Party hereby grants to the First Party the right to commence, project and maintain a tunnel through and under the said LOST BOY, LOST BOY NO. 2 and WINCHESTER mining claims, subject to the provisions hereinafter contained.

6. First Party will forthwith make an engineering study at its own expense to determine the site of a tunnel mentioned in the immediately preceding paragraph.

7. All information relating to the tunnel, engineering

and geological assays, etc., shall be freely available to all parties.

8. All ores found and removed in the construction of said tunnel through the LOST BOY, LOST BOY NO. 2 and WINCHESTER claims shall be stock-piled and shall belong solely to the Second Party.

9. If First and Second Parties agree upon a location for said tunnel that will follow the ore horizon, then the First and Second Parties will have joint supervision of the construction of the tunnel, and the actual costs of the construction thereof shall be shared equally by First and Second Parties, except that each party shall bear its own supervisory costs, and said tunnel shall be jointly used, controlled and maintained by First and Second Parties.

10. If First and Second Parties fail to agree upon a location for said tunnel that will follow the ore horizon, then said tunnel may be constructed by First Party for its sole use at a location of its own choosing, at its sole construction and maintenance expense.

11. The easements and rights herein granted and given to First Party for tunnels shall be deemed appurtenant to and for the benefit of the mining claims described above or leased by First Party, for purposes of conducting mining operations thereon, and the covenants and conditions hereof shall be binding on and inure to the benefit of the heirs, successors and assigns of the respective parties hereto.

WITNESS the hands of said parties this 26th day of February, 1955.

ATTEST:

NEVAM COMPANY

Raymond Sullivan
Secretary

By Peter J. Kobbins
Vice President

ATTEST:

Secretary

BIG HORN URANIUM CORPORATION

By

President

KEITH B. REDD

C. ALFRED FROST

STATE OF WASHINGTON)
COUNTY OF K I N G) ss.

On the 26th day of February, 1955, personally appeared before me LEISE G. ROBBINS and RAYMOND C. SWANSON, who being by me duly sworn did say, each for himself, that he, the said LEISE G. ROBBINS is the Vice President, and he, the said RAYMOND C. SWANSON is the Secretary, of NEWAM COMPANY, and that the within and foregoing instrument was signed on behalf of said corporation by authority of a resolution of its board of directors, and said LEISE G. ROBBINS and RAYMOND C. SWANSON each duly acknowledged to me that said corporation executed the same.

Notary Public in and for the State of Washington, residing at Seattle

My Commission Expires:

May 3, 1958

STATE OF)
) ss.
COUNTY OF)

On the 5th day of March, 1955, personally appeared before me F. Bennion Redd and H. F. Hammond who being by me duly sworn did say, each for himself, that he, the said F. Bennion Redd is the President, and he, the said H. F. Hammond is the Secretary of BIG HORN URANIUM CORPORATION, and that the within and foregoing instrument was signed on behalf of said corporation by authority of a resolution of its board of directors, and said F. Bennion Redd and H. F. Hammond each duly acknowledged to me that said corporation executed the same.

Lucy Redd
Notary Public
Residing at: Salt Lake City, Utah

My Commission Expires:
Feb. 11, 1959

STATE OF Utah)
) ss.
COUNTY OF San Juan)

On the 2 day of March, 1955, personally appeared before me KEITH B. REDD and C. ALFRED FROST, the signers of the above instrument, who duly acknowledged to me that they executed the same.

F. Bennion Redd
Notary Public
Residing at: Monticello, Utah

My Commission Expires:
6-14-55

Entry No. M-12017 348
Recorded 3-21-55 At 9:50 a.m. Book 285 Page 352
FEE PAID
ARMILLA E. WARREN,
San Juan County Recorder
$14.60 By [illegible] Deputy

EXHIBIT IX
TO INSTRUCTION 3(d)

NEWAM CORPORATION
545 Henry Building
Seattle 1, Washington
March 11, 1955

Big Horn Uranium Company
C. Alfred Frost and Keith B. Redd
Monticello, Utah

Gentlemen:

In consideration of your executing that certain agreement dated February 26, 1955 by and between NEWAM COMPANY, as First Party, and BIG HORN URANIUM CORPORATION, as Second Party, and C. ALFRED FROST and KEITH B. REDD, as Third Party, and giving and granting the easements and rights contained therein for a tunnel to the undersigned, the Undersigned Newam Company does herewith grant to Big Horn Uranium Company the right to jointly use any tunnel constructed by Newam Company pursuant to Paragraph 10 of said agreement provided that said joint use by Big Horn Uranium Company shall not interfere with Newam Company's construction, driving and/or use of said tunnel.

NEWAM COMPANY, a corporation

By _____
Its President

ATTEST:

_____
Secretary

STATE OF WASHINGTON)
) ss.
COUNTY OF KING)

On the 11th day of March, 1955 personally appeared before me JAMES K. CROWDY and RAYMOND C. SWANSON, who being by me duly sworn did say, each for himself, that he, the said JAMES K. CROWDY is the President, and he, the said RAYMOND C. SWANSON, is the Secretary of NEWAM COMPANY, and that the within and foregoing instrument was signed on behalf of said corporation by authority of a resolution of its board of directors, and said JAMES K. CROWDY and RAYMOND C. SWANSON each duly acknowledged to me that said corporation executed the same.

_____
Notary Public in and for the State of Washington, residing at Seattle

My Commission Expires:
_____

COPY

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

EXHIBIT X
TO INSTRUCTION 3(d)

AGREEMENT MODIFYING LEASE

THIS AGREEMENT made this 23rd day of April, 1955, by and between C. ALFRED FROST and MAXINE R. FROST, his wife, and KEITH B. REDD and DONNA H. REDD, his wife, hereinafter designated "Lessors" and NEWAM COMPANY, a corporation, hereinafter designated "Lessee";

Whereas, on or about the 20th day of May, 1954, the said Lessors and said Lessee entered into a Lease Agreement covering the following described unpatented mining claims located in White Canyon Mining District, San Juan County, State of Utah, to-wit:

> Big Rocket No. 1, 2, 3, 4, 5, 6, 7; Sun Dog No. 1, 2, 3, 4, 5, 7, 8, 9; Yellow Jack No. 1, 2, 9; Lost Boy No. 3; Buck No. 2, 3, 4; Big Jack No. 1, 2, 3, 4, 6, 7, 8, 9, and said Lease Agreement is recorded in Book 195 at Page 186-194, Records of the County Recorder at San Juan County, State of Utah; and

Whereas on or about the 29th day of July, 1954, the said Lessors and the said Lessees entered into an Agreement modifying the said lease to include additional claims and said modification of Lease is recorded in Book 195 at Page 184-185, Office of the County Recorder of San Juan County, State of Utah; and,

Whereas said lease was subsequently modified on or about the 26th day of February, 1955, by written agreement executed by Lessors and Lessees to include mining claims known as Sun Dog No. 6, Sun Dog No. 10 and Buck, located in the White Canyon

Mining District, San Juan County, State of Utah; and,

Whereas, subsequent to the date said lease was executed the Lessors did record notices of location on land included in certain of the claims previously leased to Lessors; and,

Whereas, it is the intent and purpose hereof to include under the term of said lease as modified any rights which Lessors may have acquired by reason of said new location;

NOW THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, it is mutually agreed as follows:

1. That said lease dated the 20th day of May, 1954, be and the same is hereby amended to include therein any interest which the Lessors may have in the following mining claims located in the White Canyon Mining District, San Juan County, State of Utah, described as follows:

Name of Claim	Recorded San Juan County Records Office in Book	Page
Big Jack No. 1	277	199
Big Jack No. 2	277	200
Big Jack No. 3	277	201
Big Jack No. 4	277	202
Big Jack No. 6	277	204
Big Jack No. 7	277	205
Big Jack No. 8	277	206
Big Jack No. 9	277	207

Said claims shall be included as a part of the mining claims which are demised under the terms of said lease. All other terms and conditions of said lease as modified shall continue to remain in full force and effect and all such terms and

conditions shall apply to the above described mining claims.

WITNESS the hands and seals of the parties hereto the day and year first above mentioned.

C. Alfred Frost
C. Alfred Frost

Maxine R. Frost
Maxine R. Frost

Keith B. Redd
Keith B. Redd

Donna H. Redd
Donna H. Redd

NEWAM COMPANY, a corporation

By
Its President

ATTEST:

Raymond L. Swanson
Secretary

STATE OF UTAH)
) ss.
County of San Juan)

On this 23 day of April, 1955, personally appeared before me C. ALFRED FROST and MAXINE R. FROST, his wife, KEITH B. REDD and DONNA H. REDD, his wife, to me known to be the individuals described in and who executed the within instrument, and who acknowledged to me that they signed and sealed the same of their free and voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal this 23 day of April, 1955.

Dorothy H. Culver
Notary Public, residing in
Salt Lake City, Utah

My commission expires:

1-18-59

STATE OF WASHINGTON)
) ss.
County of King)

On the 18th day of April, 1955, personally appeared before me JAMES K. CROWDY and RAYMOND C. SWANSON who being by me duly sworn did say, each for himself, that he, the said JAMES K. CROWDY is President, and that he, the said RAYMOND C. SWANSON is Secretary, of Newam Company, a corporation, and that the within and foregoing instrument is signed in behalf of said corporation by authority of a resolution of its Board of Directors and the said JAMES K. CROWDY and RAYMOND C. SWANSON each duly acknowledged to me that said corporation executed the same, and that the seal affixed is the seal of said corporation.

William F. Dolan, Jr.
Notary Public, residing at
Seattle, Washington

My commission expires:

May 8, 1958

EXHIBIT XI
TO INSTRUCTION 3(d)

AGREEMENT MODIFYING LEASE

THIS AGREEMENT made this 23 day of April, 1955, by and between LISLE G. ADAMS and JEWELL R. ADAMS, his wife, and C. ALFRED FROST and MAXINE R. FROST, his wife, and KEITH B. REDD and DONNA H. REDD, his wife, and D. E. POORMAN and BETH POORMAN, his wife, hereinafter designated "Lessors" and NEWAM COMPANY, a corporation, hereinafter designated "Lessee";

Whereas, on or about the 20th day of May, 1954, the said Lessors and Lesee entered into a Lease Agreement covering the following described unpatented mining claims located in the White Canyon Mining District, San Juan County, State of Utah, to-wit:

> Castle Myth numbers 4 through 14 and 18 through 20 and said Lease Agreement is recorded in Book 195 at Pages 195-203, Records of the County Recorder at San Juan County, State of Utah; and

Whereas, subsequent to the date said lease was executed the Lessors did record notices of location on land included in certain of the claims previously leased to Lessors; and,

Whereas, it is the intent and purpose hereof to include under the term of said lease as modified any rights which Lessors may have acquired by reason of said new location;

NOW THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, it is mutually agreed as follows:

1. That said lease dated the 20th day of May, 1954, be and the same is hereby amended to include therein any interest which the Lessors may have in the following mining claims located in the White Canyon Mining District, San Juan County, State of Utah, described as follows:

Name of Claim	Recorded San Juan County Records Office in Book	Page
Castle Myth No. 4	277	158
Castle Myth No. 5	277	159
Castle Myth No. 6	277	160
Castle Myth No. 7	277	161
Castle Myth No. 8	277	162
Castle Myth No. 9	277	163
Castle Myth No.10	277	164
Castle Myth No.11	277	165
Castle Myth No.12	277	166
Castle Myth No.13	277	167
Castle Myth No.14	277	168
Castle Myth No.18	277	172
Castle Myth No.19	277	173
Castle Myth No.20	277	174

Said claims shall be included as a part of the mining claims which are demised under the terms of said lease. All other terms and conditions of said lease as modified shall continue to remain in full force and effect and all such terms and conditions shall apply to the above described mining claims.

WITNESS the hands and seals of the parties hereto the day and year first above mentioned.

Lisle G. Adams

Lisle G. Adams

Jewell R. Adams

Jewell R. Adams

C. Alfred Frost
C. Alfred Frost

Maxine R. Frost
Maxine R. Frost

Keith B. Redd
Keith B. Redd

Donna H. Redd
Donna H. Redd

D. E. Poorman
D. E. Poorman

Beth Poorman
Beth Poorman

NEWAM COMPANY, a corporation

By

ATTEST:

Raymond Swenson
Secretary

STATE OF UTAH)
) ss.
County of San Juan)

On this 23 day of April, 1955, personally appeared before me C. ALFRED FROST and MAXINE R. FROST, his wife, KEITH B. REDD and DONNA H. REDD, his wife, to me known to be the individuals described in and who executed the within instrument, and who acknowledged to me that they signed and sealed the same of their free and voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal this 23 day of April, 1955.

Dorothy H. Colver
Notary Public, residing in
~~Salt Lake City~~ Montrose, Utah

My commission expires:

1-18-59

STATE OF UTAH)
) ss.
County of San Juan)

On this 23 day of April, 1955, personally appeared before me LISLE G. ADAMS and JEWELL R. ADAMS, hiswife, D. E. POORMAN and BETH POORMAN, his wife, to me known to be the individuals described in and who executed the within instrument, and who acknowledged to me that they signed and sealed the same of their free and voluntary act and deed for the use and purposes therein mentioned.

WITNESS my hand and official seal this 23 day of April, 1955.

Dorothy H. Colver
Notary Public, residing in
~~Salt Lake City~~ Montrose, Utah

My commission expires:

1-18-59

STATE OF WASHINGTON)
) ss.
County of King)

On the 18 day of April, 1955, personally appeared before me JAMES K. CROWDY and RAYMOND C. SWANSON who being by me duly sworn did say, each for himself, that he, the said JAMES K. CROWDY is President, and that he, the said RAYMOND C. SWANSON is Secretary, of Newam Company, a corporation, and that the within and foregoing instrument is signed in behalf of said corporation by authority of a resolution of its Board of Directors and the said JAMES K. CROWDY and RAYMOND C. SWANSON each duly acknowledged to me that said corporation executed the same, and that the seal affixed is the

seal of said corporation.

William [illegible]
Notary Public, residing at
Seattle, Washington

My commission expires:

May 8, 1958

EXHIBIT XII
TO INSTRUCTION 3(d)

Monticello, Utah
May 13, 1955

Newam Corporation
1616 Smith Tower
Seattle, Washington

Gentlemen:

In consideration of your extending, or causing to be extended, a tunnel on the Lost Boy No. 2 claim, to the Westerly boundary line of the claim on a direction of approximately North 60° West, it is agreed as follows:

1. The full cost of the extension, as well as the supervision and planning of the tunnel, will be your sole responsibility.

2. You will be granted an easement through the claim and such easement shall include the section of tunnel already driven. You will be given free and unmolested use of the surface area of the Lost Boy No. 2 claim, bounded as follows:

> Starting from the No. 1 post, Northwesterly along the side line of the claim, being a distance of 500 feet, thence Northeasterly parallel to the end line for a distance of 300 feet, thence Southeasterly to the center post at the East end line, thence South along the end line to the point of commencement.

3. We will cause to be staked a mining claim or a mill site to adjoin the Lost Boy and Lost Boy No. 2 to the South and East, and will assign to you the use of the surface rights of that portion of the claim which joins the area described in paragraph 2 of the above, the North boundary of this to be perpendicular to the East end line of the Lost Boy No. 2 claim, provided that Big Horn Uranium Corporation shall have the right to jointly use the same surface so long as it does not unreasonably interfere with your operations.

4. It is understood that the tunnel is being driven for the purpose of exploring the Sun Dog group of claims, and is to be used as a work tunnel, whether mining of ores which may be developed on the tunnel from the Sun Dog claims, or on such additional use you may require, provided that Big Horn Uranium Corporation shall have the right to the joint use of

said tunnel or a portion thereof so long as it does not unreasonably interfere with your use of the said tunnel and so long as Big Horn Uranium Corporation pays for its proportionate share of the cost of the upkeep and maintenance of said tunnel.

If, in the driving of such tunnel, you encounter ore which is deemed to be of commercial grade, such ore is to be saved and dumped in a separate dump and the same shall belong to Big Horn Uranium Corporation provided the ore is found on Big Horn Uranium Corporation's property.

This letter is being written subject to your agreement with and acceptance of the provisions herein contained.

Very truly yours,

BIG HORN URANIUM CORPORATION

F. Bennion Redd

President

FBR:dc

Plan One

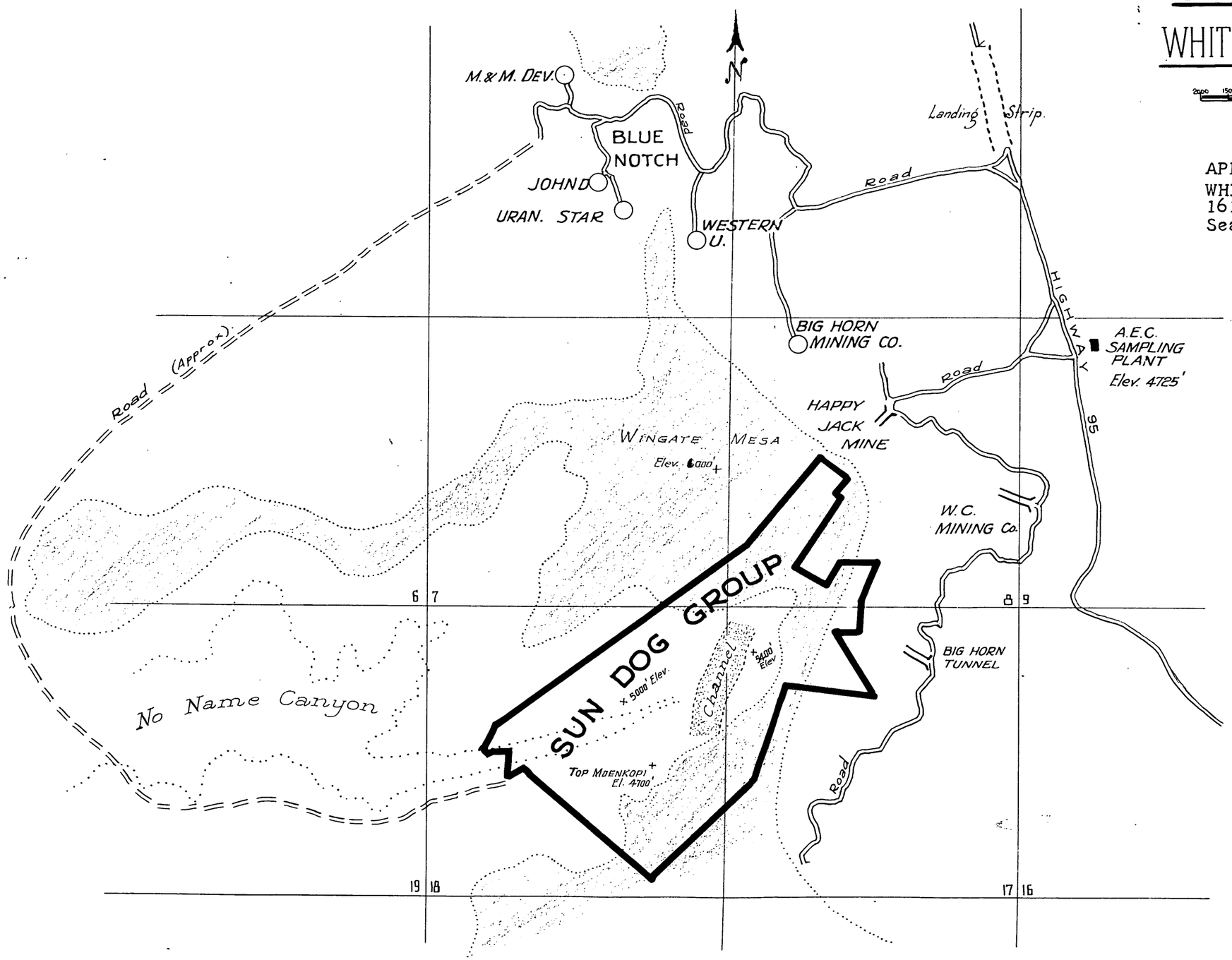
SUNDOG GROUP

WHITE CANYON JOINT VENTURE

2000 1500 1000 500 0 2000 4000

SCALE OF FEET.

APPLICANT
WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington



VANCOUVER MAP & BLUE PRINT CO., LTD. 4-55

WHITE CANYON JOINT VENTURE
1[illegible] Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT Mo-Rono Canyon AREA San Juan County, Utah

HOLE NO. Navajo 16

Location: Big Rocket 6 Sec. 10 T 35-S R 15-E Coordinates 36750 N
61265 W

Purpose: Evaluation of Entrada Chinarump Formation

Elevation: At Collar 5200 At Bottom 4818 Total Depth 382

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 310 To 382, AX To , EX To

Core Recovery: NX % BX 91 % AX % EX %

Date: Hole Started Nov.26,1954 Hole Completed Dec.8, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

PROJECT: Mo-Mono Canyon HOLE NO. Newman 16 DATE Dec.9, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
310	322	12	9.5	79	
310	316.4				Siltstone, light gray, & mudstone, med. to dark gray, intricately interbanded giving effect of marble
316.4	318				Mudstone, med. gray, & siltstone, light gray, interbanded. Rich in thrash, pyrite frags. A few thin s.s. lenses
318	322				Siltstone, light gray, massive, at top 1/2 ft. gradationally changing downward into mudstone, med. to dark gray, massive, sparse pyrite
322	334	12	12	100	
322	324.1				Mudstone, med. to dark gray, massive, very occasional small thrash frag.
324.1	326.0				Mudstone, light to med. gray, massive, numerous scattered small dark gray mudstone pellets throughout.
326.0	334.0				Mudstone, light to dark gray, massive, occasional thin light gray siltstone bands
334.0	344.0	10	9.25	92	
334.0	344.0				Mudstone, med. to dark gray, & siltstone, light gray, interbanded, numerous thrash bands with associated pyrite blebs and light gray-green mudstone pellets.

DIAMOND DRILL LOG

PROJECT: Mo-Mono Canyon HOLE NO. Hewan 16 DATE Dec. 9, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
					At 339 ft. two fresh band rich in thresh contains from 25-50% pyrite (no reaction) Some sandy bands & lenses toward bottom
344	352.6	8.6	7.5	87	
344	352.6				Mudstone, light to dark gray, generally massive, a few fine light gray silt partings toward top and bottom, occasional scattered frags. of carbon & pyritized wood
352.6	362.6	10.0	8.0	80	
352.6	355.2				Mudstone, light to dark gray, and lesser sandstone, light gray, interbanded toward bottom
355.2	357.2				Sandstone, light gray, almost white, fine to med. gr., sugary text, numerous fine discontinuous carbonaceous partings (dip 20°)
357.2	362.1				Sandstone, light gray almost white, med. gr., sugary text, massive, porous, loosely cemented, bottom 2 inches arkosic, very occasional mudstone partings & thresh frag.
362.1	362.6				Mudstone, light to dark gray, massive, lenses of sandstone, light gray, sugary text.
362.6	372.0	9.4	9.4	100	
362.6	364.8				Mudstone, light to dark gray, numerous light gray silt and ss lenses, occasional thresh frag.

Pro
rs

[illegible] CANYON MINING [illegible]

DIAMOND DRILL LOG

PROJECT: Mo-Lane Canyon HOLE NO. Hole 16 DATE Dec. 9, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
364.8	365.9				Sandstone, light gray almost white, med. gr., sugary text, porous, num. fine partings of thrash, occas. gray-green mudstone pellet, some white cement -clay? bottom 0.4 ft. rich in thrash.
365.9	368.6				Mudstone, light to dark gray, numerous bands & partings of light gray siltstone, scattered thrash frags.
368.6	369.3				Sandstone, light gray almost white, very coarse, porous, locally cts., minor thrash
369.3	372.0				Sandstone, med. to cse. grn., light gray almost white, varying porosity, rich in carbon & pyritized wood frags., bottom foot conglomeritic with varicolored mudstone pebbles up to 1 inch. At 372 a 1 inch band assays approx. 0.2% U_3O_8 (geiger)
372.0	372.0	1o	1o	100	
372.0	375.3				Sandstone, impure, case. grn., white cement - clay? heavily mixed with clay pellets & lenses, thrash & pyritized wood, mudstone conglomerate in part. At 373.6 a 3 inch band runs approx. 0.15% U_3O_8 (geiger)
375.3	379.9				Mudstone, med. to dark gray, minor silt bands and partings, scattered thrash frags. & partings. Drs trn

[illegible] CANYON [illegible]

DIAMOND DRILL LOG

PROJECT: Ne-Hans Canyon HOLE NO. Rowan 16 DATE Dec. 9, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	Drg Frm
379.9	382				Mudstone, brown-red, micaceous, lenticular fracture, and sandstone, brown-pink, fine gr., interbanded. Top 0.4 ft. mottled light buff and pale gray-green (leached)	
					Note: Core radioactive in narrow intervals at 372 ft. & 373.6 ft. See test #	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT Mo-Nero Canyon AREA San Juan County, Utah

HOLE NO. Lowen 17

Location: Big Rocket 5 Sec. 18 T 35-S R 15-E Coordinates 36962 N

60952 W

Purpose: Evaluation of Triassic Chinarump formation

Elevation: At Collar 5203 At Bottom 4836 Total Depth 367

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 315 To 367, AX To , EX To

Core Recovery: NX % BX 94 % AX % EX %

Date: Hole Started Nov. 27, 1954 Hole Completed Dec. 13, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Hawan 17 DATE Dec. 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
315	320.9	5.9	4.6	78	
315	316.7				Siltstone, light gray, and mudstone, dark gray, interbanded, intricate banding pattern
316.7	319.1				Mudstone, dark gray, irregular fracture, minor interbanded light gray silt, occasional thrash & pyritized wood frag.
319.1	320.9				Sandstone, light gray, fine to med. gr., numerous lenses, bands & partings of light & dark gray mudstone, rich in carbon & pyritized wood frags. (approx. 5%)
320.9	324	3.1	1.8	58	
320.9	323.8				Mudstone, med. gray, massive
323.8	324				Mudstone, med. to dark gray, siltstone, light gray, & sandstone, light gray, interbanded minor small thrash frags.
324	334	10	8.3	83	
324	325.3				Sandstone, light to med. gray, med. gr. to arkose at bottom, very impure, cemented by light gray mudstone & some white clay, numerous thrash frags., mudstone pellets & mudstone partings
325.3	328.4				Sandstone, light to med. gray, med. gr., tightly cemented by light gray mud, scattered small thrash frags. throughout, bottom 3 inches rich in thrash & pyritized wood (±25% pyrite)

[illegible] CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: Ne-Ahne Canyon HOLE NO. Hole 17 DATE Dec. 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
328.4	329.4				Mudstone, med.gray, massive
329.4	332.9				Mudstone, med. to dark gray, and sandstone light gray, interbanded, gradational from major mud at top to major sand at bottom, some X bedding, scattered through frags. becoming larger toward bottom. At 332.9 a 1 inch band contains ± 10% pyrite
332.9	334				Mudstone, med. gray, minor light gray silt lenses.
334	337	3	3	100	
334	337				Mudstone, med. to dark gray, massive, bottom foot friable
337	347	10	7.8	78	
337	338.1				Mudstone, med. to dark gray, massive, top. 0.4 ft. friable
338.1	347				Sandstone, light gray almost white, fine to med. gr., numerous find mudstone partings thinning toward bottom with coarsening of sand, scattered small carbon frags. Fro ? Frs
347	357	10	8.3	83	
347	353.2				Sandstone, light gray almost white, coe. gr., sugary texture, porous, largely qtz., massive, a few light gray mudstone pellets & thin lenses in bottom foot.
353.2	357				Mudstone, med.gray, and siltstone, light gray

[illegible] CANYON [illegible]

DIAMOND DRILL LOG

PROJECT: Mo-Vane Canyon HOLE NO. Nevada 17 DATE Dec. 24, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
					Interbanded, occasional sandy lenses, a few large thrash & pyrite frags. irregularly scattered, some X bedding.
357	367	10	10	100	
357	366.1				Mudstone, med.gray, and siltstone, light gray, interbanded, scattered thrash frags.
366.1	367				Mudstone, brown red, and siltstone, buff, interbanded. Top inch bleached light gray green
					Note: - No significant reaction on geiger throughout section

WHITE CANYON JOINT VENTURE
1[illegible] Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT Mo-Hone Canyon AREA San Juan County, Utah

HOLE NO. Rowan 24

Location: Big Rocket 3 Sec. 18 T 35-S R 15-E Coordinates 37075 N
60538 W

Purpose: Evaluation of Triassic Chinarump formation

Elevation: At Collar 5261 At Bottom 4955 Total Depth 306

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 200 To 306, AX To , EX To

Core Recovery: NX % BX 74 % AX % EX %

Date: Hole Started Nov. 9, 1954 Hole Completed Nov. 14, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Gamma log to 305'

WELLS CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: Nevada Canyon HOLE NO. Hanna 24 DATE November 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	Brs
280	290	10	6.3	63	May have plugged into Sra. top. Lots high core loss also!	
280	285.2				Sandstone, white to gray, med. gr.coarse toward bottom, qtz., scattered frags. & fine bands of carb. trash, occasional blob of pyrite - up to ½ inch, porous, crumbles readily (core loss?)	
285.2	290				Arkose, white, massive, largely sub-arg.qtz. grains, white cement-clay?, inc. of green mudstone & carbon trash	
290	296	6	4.25	71		
290	290.8				Arkose, white, massive, hi content of green & gray mudstone frags. toward bottom, occasional carb. frag.	
290.8	291.6				Sandstone, white, massive, fine-med.grain, approx. 40% green & gray mudstone bands & frags. some small pebbles & carbon frags.	
291.6	296				Sandstone, white to light gray, siltier toward bottom, numerous bands & partings of dark gray shale, occasion blebs of pyrite-up to ½ inch and frags. of carbon	
296	306	10	8.6	86		
296	297.5				Sandstone, light gray, banded by dark gray shale into intricate pattern suggesting cross bedding and slumping. Some carbon frags. near top	

MINE CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Hewan 24 DATE November 14, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
297.9	298.7				Mudstone, dark gray, minor pyrite, some carbon frags.
298.7	298.9				Siltstone, gray, banded, carb. trash content bd. A 2" band of this contains gray, metallic blebs up to 1/8", the whole 2 in. band assays well over 1.0% U_3O_8.
298.9	301.5				Siltstone, med. gray, massive, occasional thin, gray, fine gr., ss bands
301.5	302.9				Interbedded ss, gray, med. gr., and siltstone, gray. Sandstone contains frags. of carb. & minor pyrite.
302.9	306				Siltstone, fine grain, top 3" green then alternating buff and dark maroon bands typical of leached Moenkopi. Maroon bands have micaceous fracture.

Brs
Brs

WHITE CANYON JOINT VENTURE
161[illegible] Smith Tower
Sea[illegible]le 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT Ho-Hum Canyon AREA San Juan County, Utah

HOLE NO. Newan 28

Location: Dig Rocket 5 Sec. 18 T 35-S R 15-E Coordinates 37401 E
66698 N

Purpose: Evaluation of Triassic Shinarump Formation

Elevation: At Collar 5183 At Bottom 4843 Total Depth 340

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 295 To 340 , AX To , EX To

Core Recovery: NX % BX 91 % AX % EX %

Date: Hole Started November 17, 1954 Hole Completed December 16, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Neman 28 DATE December 19, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
295	300	5.0	3.1	62	
295	298.7				Sandstone, light gray, med. to csc. gr.,
					rich in fragments of carbon, pyritized
					wood & light gray mud pellets, bottom
					0.5 ft. conglomeritic with varicolored
					mudstone pebbles up to 1 inch porphyry
298.7	300				Mudstone, dark gray, massive
300	310	10	8.8	88	
300	302.5				Mudstone, dark gray, massive, bottom
					0.5 foot reddish mottling.
302.5	305.0				Siltstone, light gray, & mudstone, dark
					gray interbanded in intricate pattern
					resembling marble
305.0	310.0				Sandstone, light gray almost white, med.
					to csc. gr., sugary text, porous, friable,
					a few fine carbon partings near top
					otherwise massive, some white cement - clay?
					very occasional small thrash frags.
310.0	320.0	10	9.4	94	
310.0	313.8				Arkose to fine conglomerate, light gray,
					largely csc. qtz. grains & small qtz.pebbles(¼")
					tightly cemented with white cement - clay?
					occasional large thrash frags. & light gray -
					green mudstone pebbles, minor pyrite.

Tra
Lrs

DIAMOND DRILL LOG

PROJECT: Ho-Hono Canyon HOLE NO. Homan 28 DATE Dec. 19, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
313.0	320				Mudstone, dark gray, massive, increasingly silty toward bottom, some light gray silt bands near bottom.
320	330	10	10	100	
320.0	322.7				Mudstone, dark gray, and siltstone, light gray interbanded, scattered small thrash frags.
322.7	325.0				Sandstone, light gray, med. gr., impure, much interstitial light gray mud & white cement, numerous light gray-green mud lenses & partings, scattered large frags. of pyritized wood, carbon & mud.
325.0	330.0				Siltstone, light gray, and mudstone, dark gray, interbanded, minor small thrash frags., bottom 0.5 ft. sandy with some large mudstone pebbles (2" porphyry) and thrash frags.
330.0	340.0	10	9.7	97	
330.0	340.0				Mudstone, brown-red, & siltstone light gray interbanded, top 1 foot mudstone leached light gray-green; lamellar fracture, finely micaceous
					Note: No significant reaction to geiger throughout section

Ore
Wm

WHITE CANYON JOINT VENTURE
16[illegible] Smith Tower
Se[illegible]tle 4, Washington

DIAMOND DRILL HOLE LOG
WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 35

Location: Sun Dog 11 Sec. 17 T 35-S R 15-E Coordinates 38269N 59807W

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5214 At Bottom 4867 Total Depth 347

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 345 To 347, AX To , EX To

Core Recovery: NX % BX 100 % AX % EX %

Date: Hole Started December 8, 1954 Hole Completed December 17, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Geiger probe lowered to 347 . No reaction

WHITE CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Newan 35 DATE December 19, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
345	347	2	2	100	Mudstone, red-brown, lamellar fracture, finely micaceous
					Note: Erronious plugging depth given to driller. Drilled through Shinarump.

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 42

Location: Buck 3 Sec. 17 T 35-S R 15-E Coordinates 38846N 591457W

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5459 At Bottom 4936 Total Depth 523

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 510 To 523 , AX To , EX To

Core Recovery: NX % BX % AX % EX %

Date: Hole Started Oct. 28, 1954 Hole Completed Nov. 11, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Newan 42 DATE Nov. 13, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
509.6	513	3.4	3.4	100		
509.6	510				Siltstone, dark grey & light grey, a few carb. frags.	Trc
510	513				Sandstone, white, med. cse. grain, sub-ang., porous, occasional mudstone & thrash frags. the latter slightly radioactive. Bottom 0.7 ft. cemented with fine gr., dark grey sulph.- non radioactive	Trs
513	523	10	10	100		
513	514.9				Sandstone, white, cse.sub-ang grain, porous, numerous incs of green mudstone & carbon thrash (up to 1 inch), coarser toward bottom - 3/16 in. pebs. Top 1/2 in. assay approx. 0.1% U_3O_8	
514.9	516.9				Mudstone, dark grey, friable, occasional frags. of carbon thrash	
516.9	519.7				Mudstone, dark grey and siltstone grey interbedded, occasional carb. thrash frags. Bottom 0.5 ft. with num. green mudstone frags.	
519.7	520.6				Siltstone, light grey, micaceous on bedding fractures, occasional dark green mudstone frag.	Trs
520.6	521.7				Sandstone, buff, fine grain, massive	Trm
521.7	523				Sandstone, pink, fine grain, numerous dark micaceous partings	

WHITE CANYON JOINT VENTURE
616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 43

Location: Big Rocket 7 Sec. 17 T 35-S R 15-E Coordinates 38696N 601270

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5293 At Bottom 4893 Total Depth 400

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 370 To 400, AX To , EX To

Core Recovery: NX % BX 92½ % AX % EX %

Date: Hole Started November 13, 1954 Hole Completed November 25, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn	U_3O_8		
.5	386.7	387.3)	One sample					0.45		
.5	393.1	393.6)								

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Newam 43 DATE Nov. 28, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
370	380	10	8.4	84		
370	371.4				Mudstone, med. to dark grey, numerous fine carbon partings	
371.4	373.2				Mudstone, light to med.grey, massive, occas. pyrite bleb & thrash fragment. Interval 373.2 - 384.6 red mottling	
375.2	376.7				Mudstone, med. grey, and sandstone, light grey, fine gr., interbanded	Trc
376.7	380				Sandstone, light grey, med. gr., sugary text, white cement - clay? largely qtz. porous, friable, minor pyrite & thrash	Trs
380	390	10	9.3	93		
380	386.7				Sandstone, light grey almost white med. to cse. grain, sugary text, porous friable, massive, bottom 1.3 ft. tightly cemented	
386.7	389.6				Mudstone, light to dark grey, a few light grey silty bands & partings, numerous fragments of thrash & mudstone, & pyritized wood particularly in bottom 1 foot Some intermixed sand with thrash. Interval 386.7 to 387.3 (½ ft.) geigers at between 0.2 - 1.0% U_3O_8	
389.6	390				Siltstone, light grey, massive, irreg.fracture	

WHITE CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Newman 43 DATE Nov. 28, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
390	400	10	10	100		
390	395				Siltstone, light grey, intricate banded pattern by dark grey mudstone partings, gives effect of marble, minor slip planes at bottom, some silty and sandy lenses.	
					Interval 393.1 - 393.6 (½ foot) geigers between 0.2 & 1.0% U_3O_8. This band is mudstone rich in thrash and pyrite blebs.	* Trs Trm
395	396.4				Mudstone, light grey, lamellar, a few thin red mudstone bands near botton.	
396.4	400				Mudstone, brown-red, lamellar, massive, minutely micaceous	
					Note: - Two bands reacted to geiger	
					See text where indicated by *	

WHITE CANYON JOINT VENTURE
1[illegible] Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. Newam 44

Location: Sun Dog 9 Sec. 17 35-S R 15-E Coordinates 38782N 597870

Purpose: Evaluation of Triassic Shinarump formation

Elevation: At Collar 5277 At Bottom 4917 Total Depth 360

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 355 To 360 , AX To , EX To

Core Recovery: NX % BX 92 % AX % EX %

Date: Hole Started Oct. 31, 1954 Hole Completed Dec. 16, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Geiger probe lowered to 240 ft. Hole caved

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. Newam 44 DATE Dec. 19, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION
355	360	5	4.6	92	
355	356.9				Sandstone, light grey almost white, med. gr., sugary text. friable, porous, some white cement - clay? Trs
356.9	360				Mudstone, top 1 foot light grey-green remainder red-brown, lamellar fracture, finely micaceous Trm
					Note: - Too deep plugging depth. Most of Shimarump drilled through
					Note: - No significant reaction to geiger

WHITE CANYON JOINT VENTURE
16[illegible] Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. AEC 5.

Location: Sun Dog #11 Sec. 17 T 35-S R 15-E Coordinates N38,380 W59, 940

Purpose:

Elevation: At Collar 5208.2 At Bottom 4903.2 Total Depth 305

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 280 To 305, AX To , EX To

Core Recovery: NX % BX 98 % AX % EX %

Date: Hole Started July 25, 1954 Hole Completed July 28, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Hole Caved - not probed

WHITE CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. ABC 5 DATE August 12, 1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
280.0	290.0	10.0	9.3	93	sandstone, coarse to find grained, gray to dark gray, interbedded mudstone, C^{0-1}(abundant at 281'-281.5'),pyrite 1% ± 1.5 to 2x background count, banded.	Trc
290.0	300.0	10.0	10.0	100	sandstone, coarse to fine, light grey,C^{0-1} (abundant at 299'), pyrite plus(abundant at 299') 1 to 1.5x background count(0.4@ 299'), massive	Trc / Trs
300.0	310.0	10.0	10.0	100		
300.0	302.0				sandstone, fine to very fine grained, grey,interbedded grey and green mudstone, C^{2-3}, pyrite 5% ±, 1 to 1.5x background count,banded.	
302.0	307.0				siltstone, grey,interbedded mudstone and sandstone,C^{1} (concentrated @ 306'), pyrite 5% ± 2x background count (0.15 @ 306), banded	Trs / Trm
307.0	310.0				mudstone, grey to chocolate, leached to 308.5' laminated in part, micaceous	
310.0	315.0	5	5	100	mudstone, chocolate, some interbedded sandstone laminated to massive	

WHITE CANYON JOINT VENTURE
16[illegible] Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. A.E.C. 9

Location: Sun Dog #11 Sec. 17 T 35-S R 15-E Coordinates N38, 460
W59, 840

Purpose:

Elevation: At Collar 5211.3 At Bottom 4902.3 Total Depth 309

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX 285 To 295, BX 295 To 309, AX To , EX To

Core Recovery: NX 100 % BX 100 % AX % EX %

Date: Hole Started August 4, 1954 Hole Completed August 9, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests: Probed by scintillometer - @ 261.3' - 820 c.p.s. interval 1.5' @ 275.7' - 775 c.p.s. interval 1' plus, @ 284.0' - 7500 c.p.s. interval 2¼' @ 299.5' - 2865 c.p.s. interval 2'.

WHITE CANYON JOINT VENTURE

DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. A.E.C. 9 DATE August 12,1954

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
275.0	285.0	10.0	10.0	100	Sandstone, gray to light gray, medium to fine grained, C^1 (blebs in part), pyrite 1% ±, 1.5x background count, massive to thin bedded, limey cement.	Trc
285.0	295.0	10.0	10.0	100		
285.0	290.5				Silty sandstone, gray, C^{0-1}, pyrite plus, 1.5x background count, banded.	
290.5	295.0				Sandstone, light gray, C^{0-1}, pyrite plus, 1.5 to 2x background count, massive, limey cement.	Trc/Trs ?
295.0	305.0	10.0	10.0	100		
295.0	300.0				Sandstone, light gray, C^{0-1}, pyrite plus, 1.5 to 2 x background count, massive, limey cement.	
300.0	301.0				Siltstone, gray, sandy, C^{2-3}, pyrite 1% ±, 4x background count, massive to bedded.	
301.0	305.5				Siltstone, gray, C^1, pyrite(plus to 0.5%), 1.5-2x background count, massive to banded.	Trs/Trm
305.0	309.0	4.0	4.0	100		
305.5	309.0				Mudstone, gray to red, leached to 306.5, micaceous massive.	

WHITE CANYON JOINT VENTURE
161[illegible] Smith Tower
Sea[illegible]le 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. A.E.C. 10

Location: Big Rocket #7 Sec. 17 T 35-S R 15-E Coordinates N38, 430

W60, 020

Purpose:

Elevation: At Collar 5200.2 At Bottom 4895.2 Total Depth 305

Inclination: At Collar Vert. At Bottom Bearing

Size of Core: NX To , BX 275 To 305, AX To , EX To

Core Recovery: NX % BX 100 % AX % EX %

Date: Hole Started Aug. 6, 1954 Hole Completed August 11, 1954

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

DIAMOND DRILL LOG

WHITE CANYON JOINT VENTURE

PROJECT: No-Name Canyon HOLE NO. AEC 10 DATE Aug. 14, 1954

FROM	TO	INT.	RECOVERED FT.	%	DESCRIPTION	
275.0	285.0	10.0	10.0	100		
275.0	277.2				siltstone, dark grey, C^{0-1}, pyrite 0.5% ± 1.5x background count, massive.	Trc
277.2	282.5				sandstone, grey, coarse to fine, interbedded siltstone to 1½", C^{1-2}(C^{3-4} from 278.5-279), pyrite 1% ±(10%± from 278.5-279.0), 1.5x background count(3x bgdc. from 278.5-279.0), banded.	
282.5	285.0				siltstone, dark grey, sandy near bottom, C^{0-1}, (C^{2-3} from 284 to 285), pyrite 0.5(concent. 284 to 285), 1.5x background count(5x from 284.5 to 285.0), massive.	
285.0	295.0	10.0	10.0	100		
285.0	285.5				siltstone, grey, $C^{0-0.5}$, pyrite plus, 1.5 background count, banded.	Trc
285.5	295.0				sandstone, grey to light grey, coarse to fine grained, in part conglomerate, C^{0-1}(C^{2-3} from 292.5-294.5), pyrite 0.5% ±(5% from 292.5-294.5) 1.5x background count(9x bgdc. from 292.5-294.5) massive, limey cement.	Trs
295.0	305.0	10.0	10.0	100		
295.0	301.0				sandstone, grey, coarse grained, C^{0-1}, pyrite 0.5% ± 1x background count, massive, limey cement	
301.0	302.5				siltstone, grey to dark grey, C^{1}, pyrite 1%± 1.5x background count, banded	
302.5	305.0				mudstone, grey to chocolate, micaceous	

WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington

DIAMOND DRILL HOLE LOG

WHITE CANYON JOINT VENTURE

PROJECT No-Name Canyon AREA San Juan County, Utah

HOLE NO. A.E.C. 16

Location: Sun Dog #9 Sec. 17 T 35-S R 15-E Coordinates 38815 N
59553 W

Purpose:

Elevation: At Collar 5341.7 At Bottom 4921.7 Total Depth 420'

Inclination: At Collar At Bottom Bearing

Size of Core: NX To , BX 385 To 420, AX To , EX To

Core Recovery: NX % BX 89 % AX % EX %

Date: Hole Started Hole Completed

Samples Assayed:

CORE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

SLUDGE SAMPLES

Int.	From	To	Au	Ag	Cu	Pb	Zn			

Special Tests:

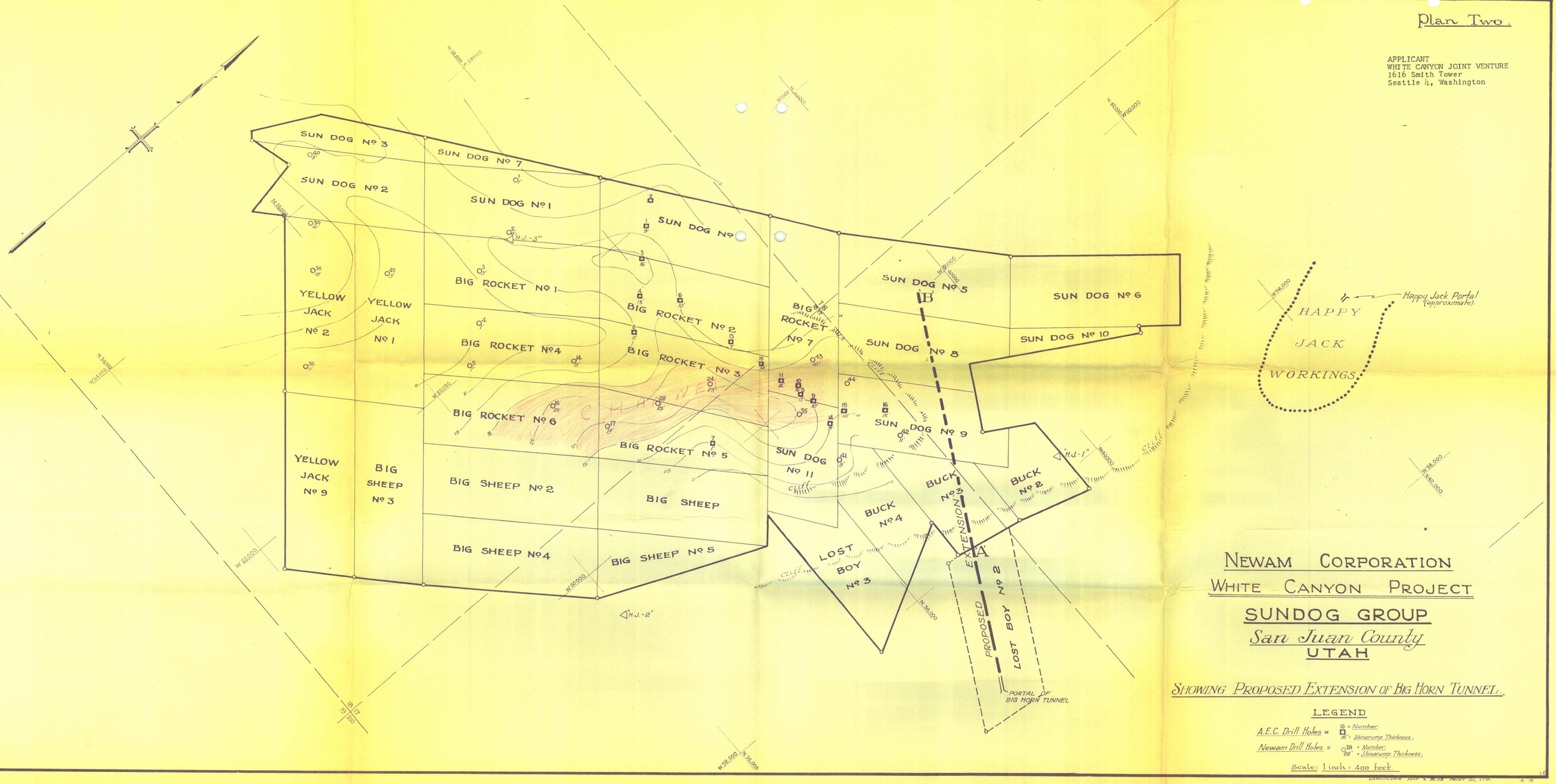
DIAMOND DRILL LOG

PROJECT: No-Name Canyon HOLE NO. A.E.C. 16 DATE Sept. 5/1954.

FROM	TO	INT.	RECOVERED FT.	RECOVERED %	DESCRIPTION	
385	395	10	7.5	75		
385	387.5				grey silty mudstone, $c^{0-1.5}$ pyrite ^{0}, Rad. 1-1.5x background	
387.5	389.7				siltstone with sandstone lenses, c^{0-1}, small mudstone lenses also noted, pyrite ^{0}, Rad. 1-1.5xb	
389.7	395				mudstone, silty in part, c^{0-1}, pyrite ^{0}, Rad. 1xb	
395	405	10	10	100		
395	400.3				mudstone, same as above with c^{0-2}	
400.3	405				medium grained sandstone, lt.gray with thin carbon lenses, $c^{0-1.5}$, fairly uniform, coarser in grain with increase in depth, Rad.1.5-2xb	Trc / Trs
405	415	10	8	80		
405	405.5				same as above	
405.5	408.5				coarse, lt.grey sandstone, abund.kaolin, c^{2-3} Rad. 1.5-2xb	
408.5	415				same as above, medium grained sandstone at 408.5 to 409, note bituminous shale lenses toward bottom, Rad. 1-1.5xb	
415	420	5	5	100	grey to red mudstone, bleached from 415 to 416.5	Trs / Tr

Plan Two.

APPLICANT
WHITE CANYON JOINT VENTURE
1616 Smith Tower
Seattle 4, Washington



NEWAM CORPORATION
WHITE CANYON PROJECT
SUNDOG GROUP
San Juan County
UTAH

SHOWING PROPOSED EXTENSION OF BIG HORN TUNNEL.

LEGEND

A.E.C. Drill Holes = 16 = Number. 18'+ = Shinarump Thickness.

Newam Drill Holes. = 28 = Number. 26' = Shinarump Thickness.

Scale: 1 inch = 400 feet.

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