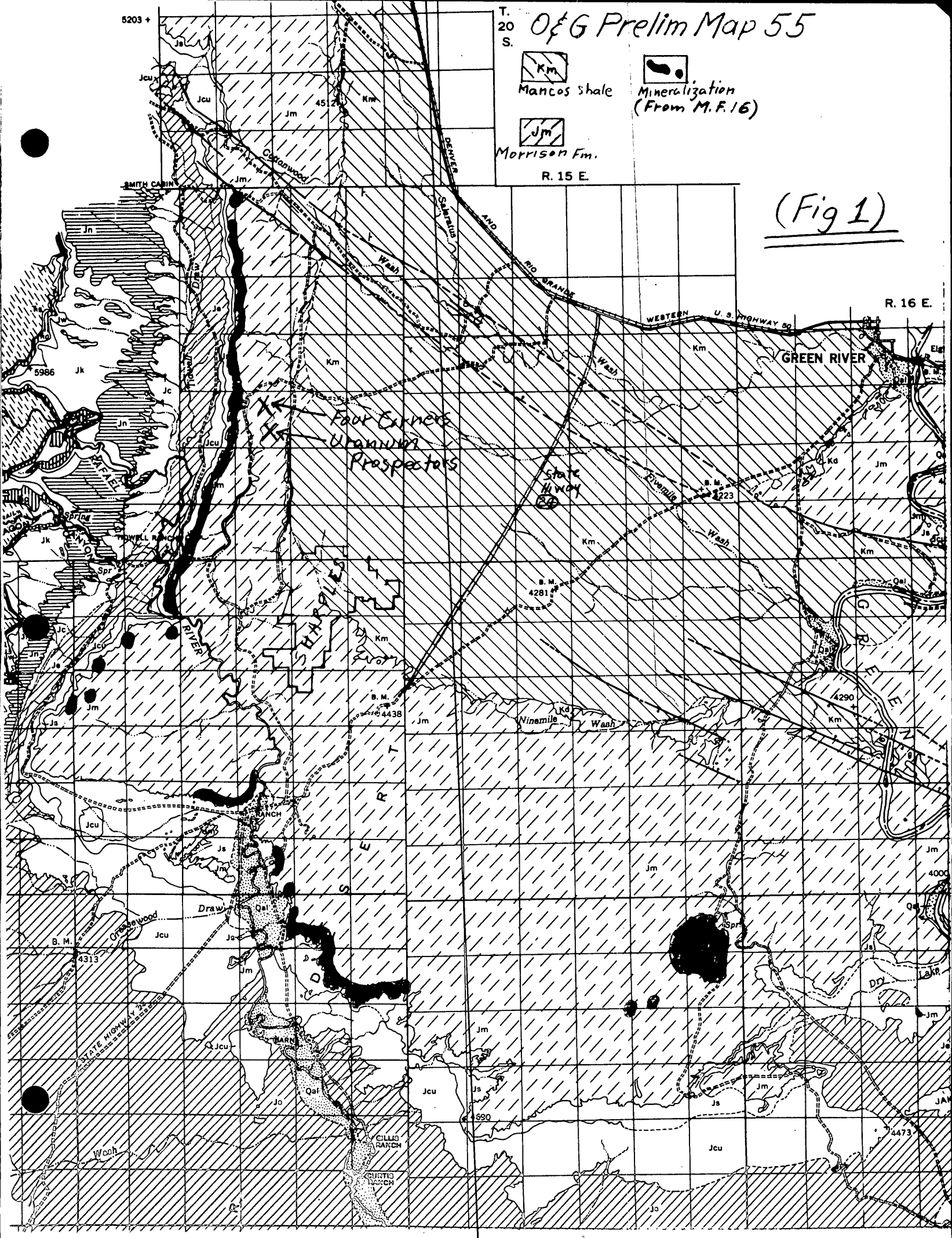

O&G Prelim Map 55
Km
Mancos Shale
Mineralization
(From M.F. 16)
Jm
Morrison Fm.
(Fig 1)
T. 20 S.
R. 15 E.
R. 16 E.
Four Corners
Uranium
Prospectors
State Hiway 24
GREEN RIVER
WESTERN
U. S. HIGHWAY 50
DENVER
AND
RIO GRANDE
Cottonwood
Wash
Fivemile
Ninemile
Draw
Dry
Lake
RIVER
SMITH CABIN
TOWELL RANCH
Spring
RANCH
BARN
CILLIO RANCH
CURTIS RANCH
STATE HIGHWAY 24
B. M. 4281
B. M. 4438
B. M. 4313
B. M. 4223
4290
4473
4590
5986
5203
4512
Jn
Jk
Jc
Jcu
Jo
Js
Kd
Qal
Spr

Shattuck Denn Mozz 11/11/63 - 3,687 tons worth 54,429.98 or 14.76 ton
Huntsman (V stro) 1,020 tons @ 0.187 35 o/o = 14.05 ton or 716.55
V stro lfr Moore 11/18/63 3055 tons from Jerry Boy claim
+178 = 3233

3687
3233
454 tons difference acknowledge by Moore 11/18/63

14.76 - 14.05 = 0.70 = 0.2 lb @ 3.50 lb = 0.01 o/o

Moore says not more than 1650 tons whole claim 3/20/64

1650 - 1020 = 630 tons difference.

Our map shows 2 other areas mined, N end & SW end. Offer info check stoping

Stoping starting Huntsman map on North.

55 X 22 = 1210, 180 tons X 13 = 2,340 / 1210 = 1.9 ft thick

40 X 22 = 880, 200 X 13 = 2600 / 880 = 3.0 ft thick

25 X 30 = 750, 190 X 13 = 2470 / 750 = 3.3 ft

30 X 20 = 600, 100 X 13 = 1300 / 600 = 2.2 ft

North end disputed area 3 ore holes, 1.3' of 0.21 o/o, 2.4' of 0.34 o/o, and 3.0' of 0.38 o/o = 2.2' of 0.33 o/o

25 X 100 X 2.5 / 13 = 481 tons by 14 = 446 tons is difference

SW end

100 X 20 X 2.2 / 13 = 338 tons min.

100 X 20 X 3.6 / 13 = 554 tons max
8 9.2 = 446 tons

1020 + 454 = 1,474 tons

Jerry Boy 3687 tons worth $54,429.88 = $14.7626

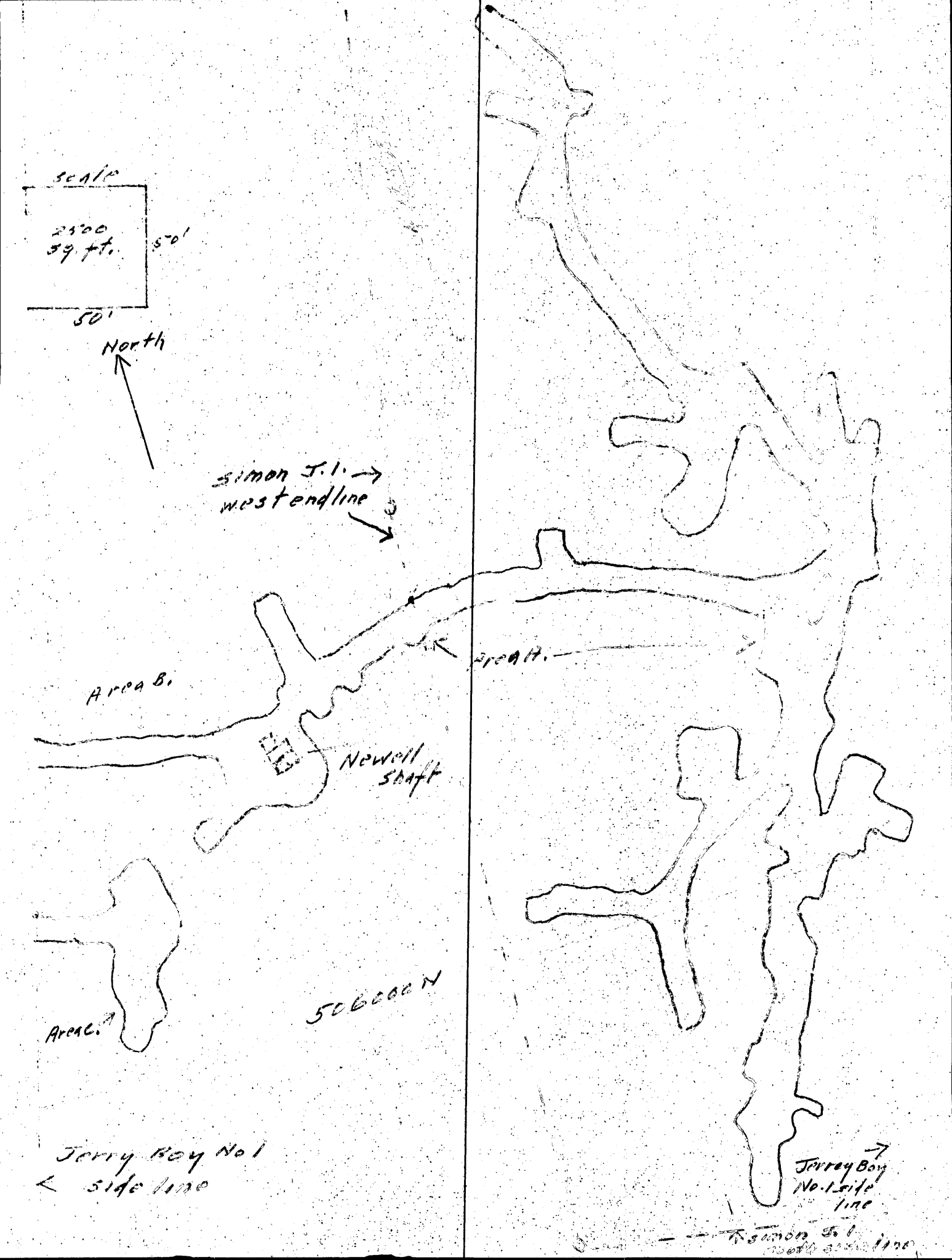
$14.7626 X 1,474 tons = $21,760.07

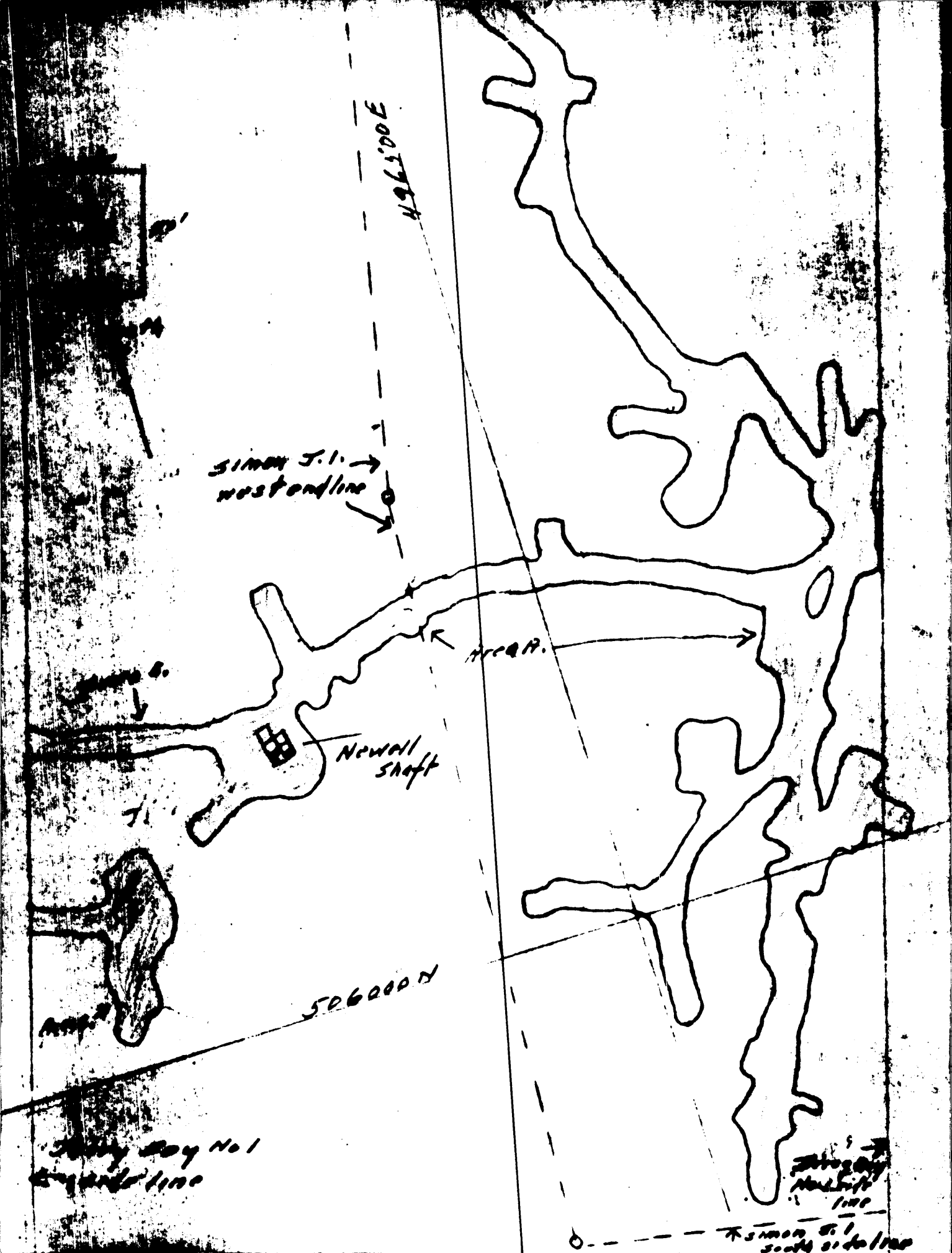
$21,760.07 X 0.05 = $1,088.00 total

$1,088 - $22.37 = $1,065.63 due by OME

694.08 ✓ ✓ Vehrs

$371.55 difference.


scale
2500
sq. ft.
50'
50'
North
simon J. l.
westendline
Area A.
Area B.
Newell
Shaft
Area C.
506000 N
Jerry Roy No 1
side line
Jerry Roy
No. 1 side
line
simon J. l.
north sideline


E 00.17 E
Simon J.I. westendline
Area A.
Newell Shaft
506000 N
Simon J.I. South side line

GEOLOGIC AND ASSAY LOGS

Hole No. A-1 ( )
Inclination Vert Bearing down
Total depth 397
Collar elev. 4,395.2 T P
Area San Rafael Reef

Map coord (T) N503,282.3 E495,325.3
Map coord (P)
Sec. 22 T. 21S R. 14E
County, State Emery, Utah

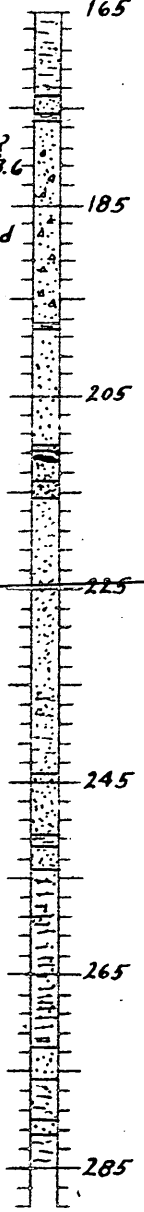
Claim Pee Wee No 1
Date completed 5-25-55
Date logged 5-26-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Ore hole ; OBSS from 173.6 to 254.5 thick 80.9 ; SS color Gy ; MS some ; Cbn. some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		173.6	8.6	100	Ibd Ms Sts, SS	R-Gn-ppl	VF & silty		Sm 172.8		Plug bit 0-165.0
		175.4	1.8	100	SS	Lt. Gy	V.F.				Jmb-Jmsw contact gradational ? 173.6
		176.3	0.9	100	Ms	D. Gy					
184.0	18.0	197.3	11.0	90.9	SS	Lt. Gy	M-Congl	Bleached angular pbls in congl.			Alternating lenses M-grained well sorted SS & M-C grained congl; pbls to ½"
		197.6	0.3	100	Ms	Gn					
203.0	19.0	210.6	13.0	100	SS	Wh	F			Occ. Gn pbls	
		210.8	0.2	100	SS	Lt. Gy	C	Some bleached grains			
		213.8	3.0	33.3	SS	Lt. Gy	F		Sm 211.8	Gn pbls at base	Good R.A in vitreous asphaltic Sm 211.8
214.0	10.0										1.0' core loss in ore zone
		215.6	1.8	100	SS	Lt. Gy	M-C		Sm 215.6	Some Gy Pbls	
233.0	11.7	244.5	28.9	65.3	SS	Lt. Gy	F			Abundany Gy sms 236.0-244.5	Xbdg @ 75° 215.6-216.0; SS soft & poorly cemented
249.0	13.3	251.8	7.3	100	SS	Lt. Gy	V.F				Becomes silty near base
		252.3	0.5	100	Ms	D Gy					
		254.5	2.2	100	SS	Lt. Gy	V.F			Thn. Gy sms.	Well cemented; Xbdg @ 65° near base
264.0	15.0	272.9	18.4	100	Ms-sts	D Gy					
		276.0	3.1	100	SS	Wh	F-V.F		Spx. 274		Hard well cemented
		280.0	4.0	100	Ms-sts	R+Gn			Sm 278		
283.0	19.0	281.3	1.3	100	SS	Lt. Gy	F				Very hard + well cemented
		306.2	24.9	100	Ms-sts	R+Gn					Occ thn lenses Gy silty SS

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
211.8	1.0'	0.22		7.5									211.8	1.0'	0.27	
Sample No. 324													Babbel probe results			
Actual core 0.1'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-1 Page 1 of 2

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-1 ( )
Inclination Vert Bearing down
Total depth 39.7.0
Collar elev 4,395.2 T P
Area San Rafael Reef

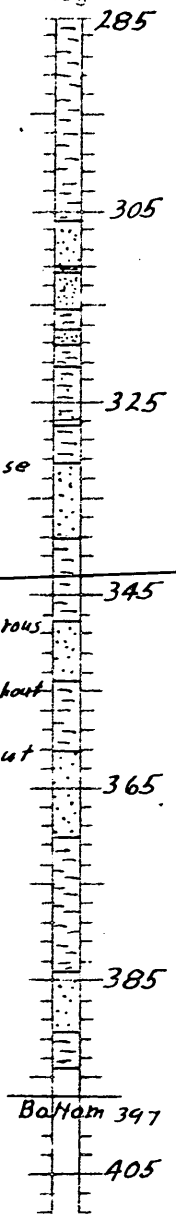
Map coord (1 N503,282.3 E495,325.3
Map coord (P
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Pee wee No. 1
Date completed 5-25-55
Date logged 5-26-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log _____ OBSS from _____ to _____ thick _____ SS color _____ MS _____ Cbn _____

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		311.0	4.8	100	SS	wh	F				Hard + well cemented
		311.6	0.6	100	Ms	R+Gn					
		315.3	3.7	100	SS	Wh	F			Gn pbls near base	Very hard + well cemented
		317.4	2.1	100	Ms	R+Gn			Sm 317.2		
		319.2	1.8	100	Ss	Lt. Gy	F				
321.0	19.0	321.4	2.2	100	Ms	Gn					Becomes sandy near base
		327.2	5.8	100	SS-Sts	Gy	VF+silty				Tbd sts + silty SS
		331.6	4.4	100	Sts	R+Gn					
		339.0	7.4	100	SS	Wh	F				
340.0	19.0	347.7	8.7	100	Ms-sts	R+Gn					Thn. gypsum strgrs. 344.0-346.0
		354.0	6.3	100	SS	Wh	F				Becomes coarse + poorly sorted at base
		361.0	7.0	100	Ms-sts	R+Gn					
359.0	19.0	370.2	9.2	100	SS	Wh	V.F.			Gn pbls + sms.	364.0-370.2
378.0		384.6	14.4	100	Sts	R+Gn					Abundant Gypsum nodules 378.6-385.2;
~~368.0~~	19.0										~~Some R. chert nodules 382.2-385.2~~
		390.6	6.0	100	SS	Lt. Gy	F				Grain becomes coarse near base; Numerous
											fibrous gypsum veins throughout
		394.2	3.6	100	Sts	R+Gn					Some Gypsum + R. chert nodules throughout
											Base Jmsw 394.2
397.0	19.0	397.0	2.8	100	Gypsum	Wh	Massive				Some contorted Gy sts beds throughout
											Abundant chert nodules near top

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

* Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-1 Page 2 of 2

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-2 ( )
Inclination Vert Bearing down
Total depth 386.0
Collar elev. 4481.0 T P
Area San Rafael Reef

Map coord (T) N503400.2 E495,765.8
Map coord (P)
Sec. 22 T 21S R 14E
Co., State Emery, Utah

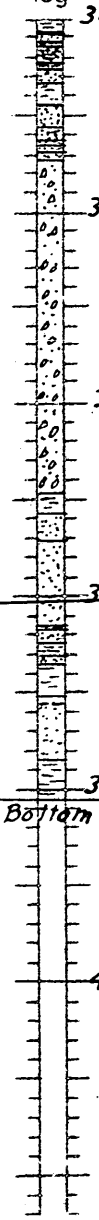
Claim Pee Wee No.1
Date completed 6-4-55
Date logged 6-4-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Barren Hole, OBSS from 318.4 to 368.0 thick 49.6 SS color Lt. Gy ; MS Pbls sparse ; Cbn. sparse

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
319.0	14.0	306.8	1.8	100	Sts	R+Gn					Plug bit 0-305; Jmb-Jmsw
		307.5	0.7	100	SS	Gy Gn	V.F+silty				Contact 307.9???
		307.9	0.4	100	Ms	R+Gn					
		309.5	1.6	100	SS	Lt.Gy	F-V.F				Well cemented
		310.0	0.5	100	Sts	R+Gn					
		311.9	1.9	100	SS	Lt.Gy	F-V.F				Well cemented
		314.1	2.2	100	Sts	R+Gn					
		316.3	2.2	100	SS	Gy Gn	VF+silty				
		317.5	1.2	100	Sts	R+Gn					
		317.9	0.4	100	SS	Gy Gn	V.F				
		318.4	0.5	100	SS	DGy Gn	V.F				
		319.8	1.4	100	SS	Wh	F				Limy very hard
338.0	18.7	354.7	34.9	99.0	SS	Lt.Gy	F-Congl	Angular bleached		Some Gn Pbls	Alternating bands F-g SS + Congl
		356.8	2.1	100	Ms Sts	Gn		Pbls + some R. Chert		Throughout	Xbdg @ 75° near base
357.0	18.0	359.5	2.7	100	SS	Wh	F-V.F			SPK 357.4-358.7	
		368.0	8.5	100	SS	Lt.Gy	M-F				
		368.9	0.9	100	Ms	Gn					
		370.1	1.2	100	SS	DGy	V.F+Silty				
371.0	14.0	371.0	0.9	100	Ms	Gn					
		372.2	1.2	100	SS	Gy	V.F+silty				
		375.2	3.0	100	Sts	R+Gn					
		382.2	7.0	100	SS	Lt.Gy	F-V.F			Sm-376.2-376.4	Silty 380.0-382.2
386.0	12.0	386.0	3.8	52.7	Ms	R+Gn					

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-2 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-3 ( )
Inclination Vert Bearing down
Total depth 420.0
Collar elev 4471.0 T P
Area San Rafael Reef

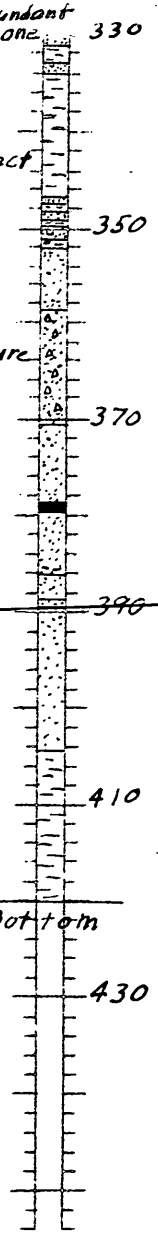
Map coord (T) N503,195.4 E495,987.1
Map coord (P)
Sec. 22 T 21S R. 14E
Co., State Emery, Utah

Claim Dede No 8
Date completed 6-7-55
Date logged 6-7-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log ore hole ; OBSS from 349.4 to 404.2 thick 54.8 ; SS color Lt. Gy ; MS Some pbls ; Cbn. Locally abundant in mineralized zone

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
347.0	17.0	331.4	1.4	100	SS	Gy Gn	F+ silty				Plug bit 0-~~347.4~~ 330.0 Jmb-Jmsw contact
		333.0	1.6	100	Sts	R+Gn					349.4 ?
		334.0	1.0	100	SS	Gy Gn	V.F+silty				
		346.8	12.8	100	Ms sts	R+Gn					
		347.5	0.7	100	SS	Gy Gn	VF+silty				Very well cemented
		348.1	0.6	100	Ms	Gn					
		349.4	1.3	100	SS	Gy Gn	V.F				Very well cemented, $CaCO_3$ in vert fracture
		349.8	0.4	100	Ms	DGy			Spx		
		351.6	1.8	100	SS	Lt. Gy	F				Well cemented
		352.2	0.6	100	Ms	Gn					
		358.9	6.7	100	SS	Lt. Gy	M-F			Some Gn pbls	
366.0	19.0	370.4	11.5	100	SS	Lt. Gy	F-Congl	Angular bleached pbls		Some Gn pbls	Alternating bands F.g SS+ Congl
		378.8	8.4	100	SS	Lt. Gy					
		379.9	1.1	100	SS	DGy-Bl	V.F+silty		Abundant Sms		U_3O_8 mineralization
385.0	19.0	386.2	6.3	100	SS	Lt. Gy	V.F			0.2' Gn sm at base	Xbdg @ 70° near base
		388.7	2.5	100	SS	Lt. Gy	M				
		389.9	1.2	100	SS	Lt. Gy	V.F.				Xbdg @ 75°
404.0	19.0	404.2	14.3	100	SS	Lt. Gy	F-V.F			Gn pbls at base	Xbdg @ 75° near top
420.0	14.4	420.0	15.6	89.7	Ms-Sts	R+Gn					



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
379.9	1.1	0.33		5.0									380.6	1.1	0.39	
Sample No. 326													Babbel probe results			
1.1' actual Core																

*Assays marked "e" are from lab gamma-ray readings

UPC 835041

Hole No. A-3 Page 1 of 1

RECEIVED
DEC 1 9 1955

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-4 ( )
Inclination Vert Bearing down
Total depth 500
Collar elev. 4,462.9 T P
Area San Rafael Reef

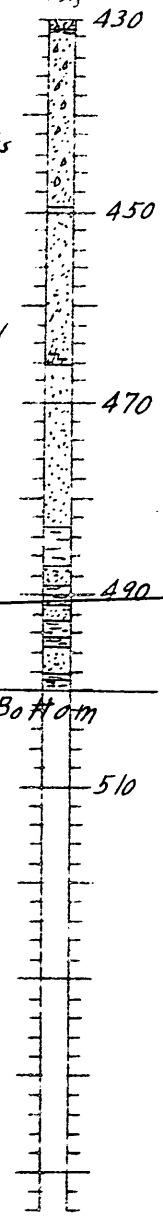
Map coord (T) N502,934.3 E496,723.8
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 8
Date completed 6-24-55
Date logged 6-24-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Barren Hole : OBSS from 428.0 to 483.4 thick 55.4 : SS color Lt.Gy : MS Sparse : Cbn. Some FKS + sms

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec. %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
		431.4	1.4	100	SS	Lt. Gy	F-V.F				Plug bit 0-430; Driller reports
		431.5	0.1	100	Ms	Gn					sandstone penetrated at 428.0'
449.0	19.0	449.5	18.0	100	SS	Lt. Gy	F-M+C Congl	Angular bleached Pbls in Congl			Jmb-Jmsw Contact 428'
											Tbd. F-M unsorted ss + C Congl
		466.0	16.5	100	SS	Lt. Gy	F-V.F		thin sms 449.5-450.5	Gy pbls + sms at base	Bdg @ 80° to core
468.0	19.0	483.4	17.4	100	SS	Lt. Gy	F-V.F		473.5 FKS -482.8		Grain at base M-C & poorly sorted
		487.3	3.9	84.9	Ms	Gn					
487.0	18.4	489.4	2.1	100	SS	Gy Gn	V.F-silty				
		490.0	0.6	100	sts	R					
		491.0	1.0	100	SS	Gy Gn	V.F+silty	Abundant Ort R			
		492.4	1.4	100	sts	R		Chert pbls			
		494.3	1.9	100	SS	Lt. Gy Gn	V.F-F				Well cemented
		495.5	1.2	100	sts	R+Gn					
		498.1	2.6	100	SS	Lt. Gy Gn R Br	V.F-F			Some R+Gn Pbls	Well cemented
		498.8	0.7	100	Ms	R+Gn					
500.0	12.7	500.0	1.2	100	sts	Gn					

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-4

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GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-5 ( )
Inclination Vert Bearing Down
Total depth 446
Collar elev. 4493.19 T P
Area San Rafael Reef

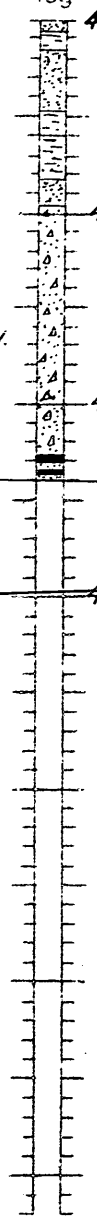
Map coord (T) N503 203.4 E 496 380.5
Map coord (P)
Sec. 22 T. 21S R. 14E
State Emery, Utah

Claim Dede No 8
Date completed 6-9-55
Date logged 6-9-55
Logged by J E Morgan

Rev		
Ed		

Summary of log ; OPS from 416.4 to — thick — ; SS color ; MS ; Cbn.

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		401.7	1.7	100	SS	Gy Gn	V.F + silty				Plug bit 0-400; Jmb-Jmsw
		403.7	2.0	100	Ms-Sts	R + Gn					Contact? 416.4
		409.7	6.0	100	SS	Gy Gn-Lt Gy	F	Some R. Chert pbls			Very well cemented
412.0	12.0	412.0	2.3	100	Ms	R					
		416.4	4.4	100	Ms-SS	Gn	F + silty				Ibd Ms + silty SS
		419.4	3.0	100	SS	Lt. Gy	F				
431.0	19.0	443.8	24.4	100	SS	Lt. Gy	F-M-Congl	Angular bleached Pbls		numerous sms & pbls 438.5-443.0	Alternating bands F-M gr. ss + C Congl.
		444.1	0.3	100	SS	Bl-D Gy	F	vitreous	thin	sms	Carbon sms highly radioactive; Trace of Chalcopyrite
		444.9	0.8	100	SS	Lt. Gy	M			Gy sms + pbls	Very well cemented
		445.2	0.3	100	SS	Gy-Bl	M	vitreous	thin	sms	Carbon sms highly radioactive; Tr. Chalcopyrite
446.0	15.0	446.0	0.8	100	SS	Lt. Gy	F-M				
											Note: Broken bit in hole at 446.0'. Hole moved S 88° 42' E 8.8' and plug bitted to 442.0'. See log hole A-5a.

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
444.1	0.3	0.96		2.1									444.1	0.3	1.0 +	
Sample No. 327			0.3' actual Core										445.2	0.3	1.0 +	
													Babbel Counter Check			
445.2	0.3	0.82		5.1												
Sample No. 328			0.3' actual Core													

*Assays marked "e" are from lab gamma-ray readings

GPO 8-55014

Hole No. A-5 (see Hole A-5a)

RECEIVED
DEC 19 1955

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-5a ( )
Inclination Vert Bearing Down
Total depth 487.0
Collar elev 4494.0 T P
Area San Rafael Reef

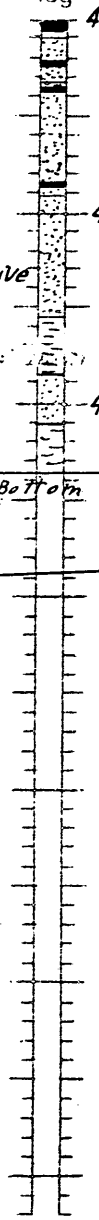
Map coord (T) N503,194.6 E496,380.7
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 6-10-55
Date logged 6-10-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Ore hole ; OBSS from 416.4 to 471.3 thick 54.9 ; SS color Lt. Gy ; MS Pbls ; Cbn. locally abundant

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
461.0	18.7										Plug bit 0-442 (See log Hole A-5) Driller reports carbon in cuttings at 441.0'
		444.1	2.1	100	SS	Lt. Gy	F-M			Abundant Gn pbls	
		444.8	0.7	100	SS	Bl-D Gy	F-M	+ Fks	sms Abundant		Vitreous asphaltic sms highly radioactive
		446.8	2.0	100	SS	Lt. Gy	F-M			Gn & Gy pbls A	
		447.3	0.5	60.0	Ms	D Gy					
		447.6	0.3	100	SS	Gy	F-M		thn sms	Gn pbls at top	Weak radioactivity in carbon sms.
		456.9	9.0	100	SS	Lt. Gy	F-C		thn sms	Gy pbls + sms 448.6-449.6	Well cemented, Grain becomes coarse near base; Xbdg @ 65°
		457.6	0.7	100	SS	Gy	M-C		Sp X	Some Gy pbls	Weak radioactivity
		458.2	0.6	100	SS	Lt. Gy	M-C				
		471.3	13.1	100	SS	Lt. Gy	F		thn sm 467.7	Gy pbls at base	
		476.6	5.3	75.5	Ms	Gn					
474.0	11.7	482.0	4.4	100	SS	Gy Gn-Lt R Br	V. Ft silty				
		487.0	5.0	88.0	Sts	R + Gn					Note: Hole deepened from 474.0-487.0 6-30-55 JEM
487.0	12.6										

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
444.8	0.7	1.85		0.2									441.6	1.3	0.21	
Sample No. 329 actual Core 0.7'													444.8	0.7	1.00+	
													447.9	0.3	0.13	
447.9	0.3	0.07		8.4									457.6	0.7	0.14	
Sample No. 330 actual Core 0.3'													Babbel probe results			
457.6	0.7	0.08		5.6												
Sample No. 331 actual Core 0.7'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-5a (See log A-5)

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-6 ( )
Inclination Vert. Bearing down
Total depth 489
Collar elev. 4505.1 T P
Area San Rafael Reef

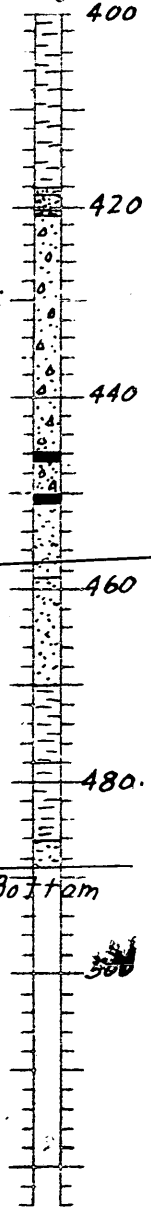
Map coord (F) N 503,353.1 E 496,333.7
Map coord (P)
Sec. 22 T 21S R 14E
County, state Emery, Utah

Claim Dede No. 8
Date completed 6-15-55
Date logged 6-16-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log Ore hole OBSS 420.3 to 470.0 Thick 49.7 SS color Lt. Gy ; MS thn sms & pbls locally ; Cbr minor sms & FKs

Graphic log



DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbr.	MS in SS	Remarks
410.0	10.0	418.1	18.1	100	Ms-sts	R & Gn					Plug bit 0-400'; Jmb-Jmsw
		418.7	0.6	100	SS	DGy-Gn	F & silty		Some FKs.		Contact gradational 418.7
		420.3	1.6	100	SS	Lt. Gy	V.F				Very well cemented
		420.6	0.3	100	Ms	Gn					
427.5	17.5	446.0	25.3	100	SS	Lt. Gy	F-M-Congl	Angular bleached pbls	thn sms 425.8 FKs in		Tbd F-M gr SS & C Congl.
446.5	19.0	447.1	1.1	100	SS	Lt. Br-Gy	F-C		Ms sms	Abundant thn. Gy sms & Pbls	Moderately radioactive throughout; well cemented.
450.5	4.0	450.5	3.4	100	SS	Lt. Gy	F-Congl		Sms & FKs 450.0 thn sms	Abundant Gy pbls	
459.0	8.3	451.1	0.6	100	SS	D Gy	F-C			Abundant Gy pbls & sms	Moderate radioactivity in thn vitreous carbon sms
		470.0	18.9	100	SS	Lt. Gy	F			Numerous Gy Pbls 453.0-455.0	
478.0	17.7	486.2	16.2	91.4	Ms-sts	R & Gn					
		488.1	1.9	100	SS	Lt. Gy	V.F			Some R. pbls	
489.0	11.0	489.0	0.9	100	SS	Lt. Gy-Br	V.F & silty				

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
447.1	1.1	0.18		12.3									447.9	1.1	0.26	
Sample No. 332 Actual Core 1.1'													452.4	0.6	0.05	
													Babbel probe results			
451.1	0.6	0.07		18.1												
Sample No. 333 Actual Core 0.6'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-6 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill Hole No. A-7 ( )
Inclination Vert Bearing down
Total depth 494.0
Collar elev. 4,490.4 T ___ P
Area San Rafael Reef
Map coord (N) N 503,395.5 E 496,461.0
Map coord (E)
Sec 22 T 21S R 14E
Co., State Emery, Utah
Claim Dede No. 8
Date completed 6-17-55
Date logged 6-17-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Barren Hole OBSS from 423.4 to 478.9 thick 55.5 SS color Lt. Gy. MS Some pbls Cb sparse

DRILL LOG Depth	DRILL LOG Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min s.	Cbn	MS in SS	Remarks
		408.0	1.0	100	SS	Lt. Gy	F	R+Or Chert pbls			Plug bit 0-407
		409.8	1.8	100	Ms	R					
		413.5	3.7	100	SS	Gy Gn	V.F+silty	Some R Chert			
		419.7	6.2	100	Ms-sts	R+Gn					
422.5	14.0	423.4	3.7	59.4	SS	Lt.Gn-Lt.Gy	V.F				Jmb-Jmsw Contact 423.4?
		427.4	4.0	100	SS	Lt.Gy	F-M	Some R Chert	FRS 426.6-427.1		Xbdg @ 65° near base
		438.0	10.6	100	SS	Lt.Gy	F+M-C Congl				Tbd F-gr. ss + M-C Congl
441.5	19.0	442.0	4.0	100	SS	Lt.Gy	F				
		447.0	5.0	100	SS	Lt.Gy	F-V.C Congl			Some Gy pbls	
		457.0	10.0	100	SS	Lt.Gy	F			Abundant Gy pbls near base	
		457.1	0.1	100	Ms	Gn					
		457.7	0.6	100	SS	Lt.Gy	V.F.				Well cemented; Xbdg @ 65°
460.5	19.0	457.9	0.2	100	SS	Lt.Gy	M-C Congl			Abundant Gy Pbls	Thin sm Gn Ms at base
		478.9	21.0	100	SS	Lt.Gy-Gy	V.F-F		Thin sms 460.0-460.3	Some Gy pbls	
477.0	16.5	481.0	2.1	100	Ms-sts	Gn					
		494.0	13.0	66.2	Ms-sts	R+Gn					Note: Hole deepened from 477.0-494.0 6-30-55 JEM
494.0	13.6										

Graphic log: 400, 420, 440, 460, 480, Bottom, 500

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-7

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-8 ( )
Inclination Vert Bearing down
Total depth 515
Collar elev. 4505.7 T P
Area San Rafael Reef

Map coord (ft) N503 2322 E 496 519.1
Map coord (P)
Sec 22 T 21S R 14E
Co. State Emery, Utah

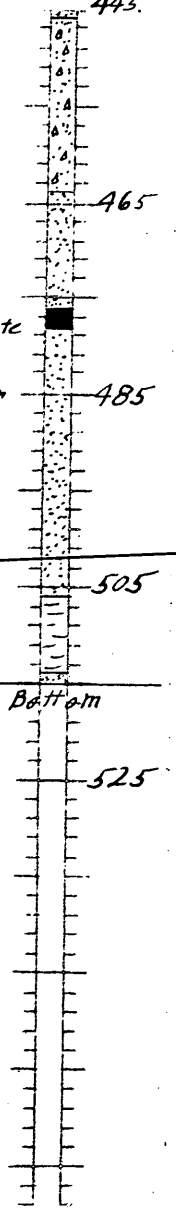
Claim Dede No. 8
Date completed 6-22-55
Date logged 6-23-55
Logged by J E Morgan

Rev
Ed

Summary of log Ore hole OBSS from 445.0 to 505.6 total 60.6 SS color Lt. Gy MS Sparse Cbn. sparse

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
460.0	15.0	445.9	0.9	100	SS	Lt. Gy	M-F		thn sms 445.8		Plug bit 0-445; Projected Contact 445.0
		463.6	17.7	100	SS	Lt. Gy	F-C+Congl	Angular bleached Pbls + some R chert			Tbd F-C unsorted ss + C Congl.
469.0	8.9	475.0	11.4	100	SS	Lt. Gy	M-F			Abundant small Gy Pbls	Poorly sorted well cemented
469.5	0.5										
		476.1	1.1	100	SS	Lt. Gy	F				
		478.3	2.2	100	SS	Gy-Lt. Gy	C-V.F		thn sms		Good radioactivity in thn cbn sms; moderate to weak radioactivity in enclosing SS. No visible U_3O_8 min'l. SS grades from C to V.F top to base.
488.5	19.0										
503.5	15.0	505.6	27.3	100	SS	Lt. Gy	F-V.F		thn sms 491.5		
		513.8	8.2	46.3	Ms-sts	Gn					
515.0	6.0	515.0	1.2	100	SS	Gy Gn	V.F + silty				

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
476.1	0.3'	0.03		8.6									479.9	2.2	0.20	
Sample No. 334 0.3' actual core													Babbel probe results			
477.4	1.0	0.32		6.8												
Sample No. 335 1.0' actual core																
478.2	0.9	0.15		10.8												
Sample No. 336 0.9' actual core																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-8

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-9 ( )
Inclination Vert Bearing Down
Total depth 464
Collar elev. 4,494.5 T F
Area San Rafael Reef

Map coord (T) N503,587.6 E 496,226.7
Map coord (P)
Sec 22 T 21S R 14E
Co. State Emery, Utah

Claim Dede No. 7
Date comp. drill 6-29-55
Date log 6-30-55
Logged by J E Morgan

Rev	
Ed	

Summary of log Barren Hole OBSS from 394.1 to 437.2 total 43.1 SS color Wh-Lt.Gy MS Nil Cbn. some sms.

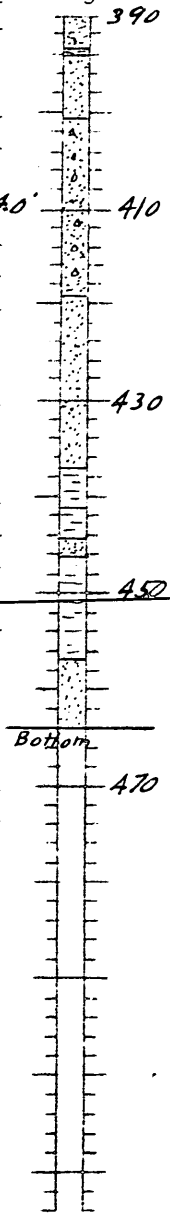
DRILL LOG

Depth	Rec ft.
409.0	19.0
428.0	19.0
447.0	18.4
464.0	15.2

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
393.8	3.8	100	SS	Lt.Gy Gn Lt.Gy	F-V.F			Gn sm 391.2	Plug bit 0-390 SS well cemented
394.1	0.3	100	Ms	Gn	Sandy				dmb-dmsw Contact gradational 394.0'
400.7	6.6	100	SS	Wh-Lt.Gy	F-V.F				
419.5	18.8	100	SS	Wh-Lt.Gy	V.F-M+C Congl	Angular bleached Pbls in Congl.	FKs 401.5		Jbd V.F-M grained ss + C Congl
437.2	17.7	100	SS	Wh-Lt.Gy	F-M		sms 426.1-426.6 sm 430.8		
441.4	4.2	100	Sts	Gy Gn-Gy					
444.2	2.8	100	Sts-Ms	R+Gn					
446.1	1.9	100	SS	Gy Gn	V.F				
456.8	10.7	74.8	Sts-Ms	R+Gn					
464.0	7.2	100	SS	Lt.Gy-Lt.R.Br.	V.F				

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-9

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-10 ( )
Inclination Vert Bearing down
Total depth 515.0
Collar elev 4477.4 T P
Area San Rafael Reef

Map coord (T) N 503,572.5 E 496,792.9
Map coord (P)
Sec. 22 T 21S R 14E
Co State Emery, Utah

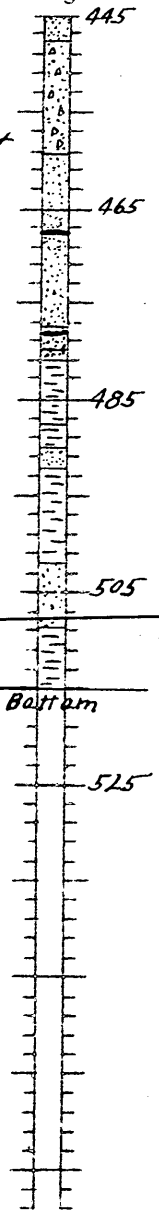
Claim Dede No. 7
Date completed 7-2-55
Date logged 7-2-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 443.0 to 482.0 thick 41.0 SS color Wh-Lt.Gy ; MS sparse ; Cbn. Some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		447.7	2.7	100	SS	Wh-Lt.Gy	F-M				Plug bit 0-445; SS penetrated at
		459.1	11.4	100	SS	Wh-Lt.Gy	F-M & Congl	Angular bleached			443; Jmb-Jmsw Contact 443?
								Pbls in Congl			Ibdd F-M grained ss & C Congl
464.0	14.0	467.5	12.4	100	SS	Wh-Lt.Gy	F-M		Thn sm 460.3		
		467.6	0.1	100	Carbon	Bl			sms		Intense radioactivity in thn Vitreous
											asphaltic sms
		477.4	7.8	100	SS	Wh-Lt.Gy	F-V.F				
		478.7	1.3	100	SS	Lt.Gy	M-F				
		478.8	0.1	100	Carbon	Bl			Sm		Moderate radioactivity in carbonaceous
											sm Carbon appears to be portion of
											tree
482.0	18.0	481.1	2.3	100	SS	Lt.Gy	F-F-V.F		Spt 480.7	Some Gn pbls	Well cemented
		482.0	0.9	100	SS	Lt.Gy	V.F				Very well cemented
		487.3	5.3	100	Sts-Ms	Gn					
		490.0	2.7	100	Sts	R+Gn					
		492.6	2.6	100	SS	Lt.Gy to L. R. Br	V.F				Very well cemented
501.0	14.9										
		502.2	9.6	50.7	Ms-sts	R+Gn					
		508.8	5.6	100	SS	Lt.Gy to Lt.R Br	V.F.				Very well cemented
515.0	6.4	515.0	6.2	0.0	Ms	Gn					Bottom 6.0' of core lost driller
											reports Ms.

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8*	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
467.5	0.1	2.37		1.3									468.2	0.1	0.82	
Sample No		337	0.1' actual core										479.5	0.1	0.04	
478.8	0.2	0.08		20.6									Babbel	probe	Results	
Sample No		338	0.2' actual	core												

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-10

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-11 ( )
Inclination Vert Bearing down
Total depth 412
Collar elev. 4,425.2 T. P
Area San Rafael Reef

Map coord (T) N503,855.5 E496,204.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

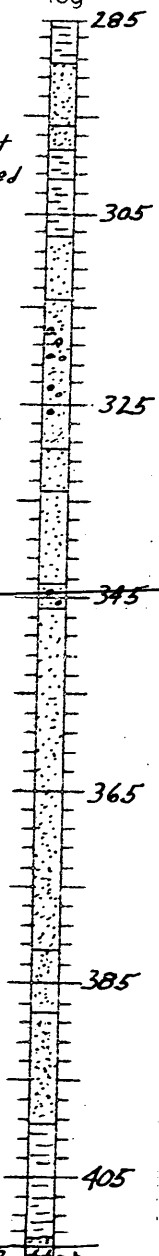
Claim Dede No. 7
Date completed 5-27-55
Date logged 5-27-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log barren hole ; OBSS from 307.3 to 399.6 thick 92.3 ; SS color Lt. Gy ; MS Sparse ; Cbn. some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Minrls.	Cbn.	MS in SS	Remarks
299.0	14.0	289.5	4.5	100	Ms	R+Gn					Plug bit 0-285; Jmb-Jmsw contact
		296.3	6.8	100	SS	Lt. Gy	F			Thn. Rsm at base	abrupt at 314.5; vert carbonate filled
		298.8	2.5	100	SS	Gy Gn	F+silty				fractures in SS below contact
		301.4	2.6	100	Ms	R					
309.0	10.0	307.3	5.9	100	Sts-Ms	R+Gn					
		314.5	7.2	100	SS	Lt. Gy	F			Gy. Sm. 313.5	Xbdg @ 65° 313.5-314.5
328.0	19.0	329.5	15.0	100	SS	Lt. Gy	F-Congl.	Bleached Pbls		Some pbls in Congl	Alternating bands Congl & F.G. ss
		334.2	4.7	100	SS	Lt. Gy	M-F				
338.0	10.0	343.5	9.3	100	SS	Lt. Gy	M		Sm 340.0		Thn sms asphaltic mtl. 340.0-340.2
		346.4	2.9	100	SS	Lt. Gy	M congl.		Sm 345.4		
357.0	19.0	381.4	35.0	100	SS	Lt. Gy	F		Sm 375.5	Occ. Gn. pbls	
376.0	19.0	387.9	6.5	100	SS	Lt. Gy	V.F.			Occ. Gn sms	
395.0	19.0	399.6	11.7	100	SS	Lt. Gy	F-M		SPX 396 SPX 399	Abundant Gn. Pbls 396.8	Loosely cemented; Xbdg @ 55°
		412.4	12.8	100	Ms sts	R+Gn					
412.0	17.0	412.0	0.6	100	SS	Lt. Gy	V.F.			Abundant Gn. pbls throughout	Very hard & well cemented

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

CPO 835641

Hole No. A-11 Page 1 of 1

GEOLOGIC AND ASSAY LOGS

Drill-hole No: A-12 ( )
Inclination: Vert Bearing: down
Total depth: 474
Collar elev.: 4,483.8 T P
Area: San Rafael Reef

Map coord (T): N503,765.0 E496,526.2
Map coord (P):
Sec. 22 T. 21S R. 14E
Co., State: Emery, Utah

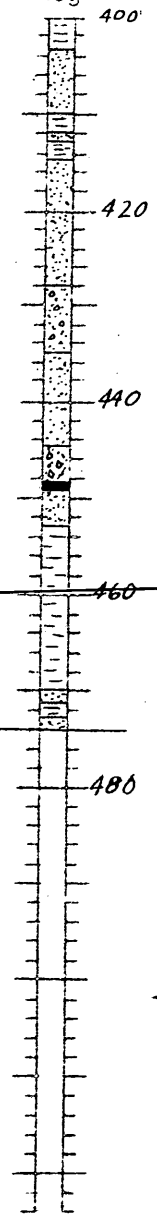
Claim: Dede No. 7
Date completed: 7-9-55
Date logged: 7-10-55
Logged by: J.E. Morgan

Rev		
Ed		

Summary of log: Ore hole ; OBSS from 403.7 to 453.5 thick 50.2 ; SS color Wh-Lt. Gy ; MS Sm 3.6' ; Cbn. Some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		403.7	3.7	0.0	Ms	R+Gn					Plug bit 0-400; 9.0' core lost
410.0	0.9	410.0	6.3	14.3	SS	Wh-Lt. Gy	M-F				400-410'; projected Jmb-Jmsw.
		412.0	2.0	100	Ms-sts	R+Gn					Contact 403.7
		412.7	0.7	100	SS	Gy Gn	V.F		Spx		
		414.3	1.6	100	Ms-sts	D Gy Gn					
426.0	16.0	428.0	14.3	83.9	SS	Wh-Lt.Gy	M-F				
431.0	1.1	437.0	11.0	100	SS	Wh-Lt.Gy	F-M&C Congl	Angular bleached			Thdd F-M poorly sorted SS&C Congl
								Pbls + some R. Chert			
		444.5	7.5	100	SS	Wh-Lt.Gy	F-M				
449.0	16.3	448.7	4.2	73.9	SS	Wh-Lt.Gy	F-M-C Congl				
		449.4	0.7	14.3	SS	D Gy	F-M+muddy		Sms		Intense radioactivity in thin vitreous
											asphaltic sms; trace fine-grained pyrite
		453.5	4.1	100	SS	Wh-Lt.Gy	F	thin sms 449.0-449.3 sms on bdg planes 452.0-453.5			Bdg @ 75° to core near base
468.0	13.1										
		470.0	16.5	66.7	Ms-sts	R+Gn					
		471.5	1.5	100	SS	Lt. Gy	V.F				Well cemented
		472.9	1.4	90	Ms-sts	R+Gn					
474.0	3.9	474.0	1.1	100	SS	Lt. Gy	V.F				Well cemented

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
449.4	0.7	3.10		15.7									449.4	0.7	0.49	
Sample No. 340 actual Core 0.1'													Babbel Probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835644.

Hole No. A-12

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-13 ( )
Inclination Vert Bearing down
Total depth 503.0
Collar elev. 4488.6 T P
Area San Rafael Reef

Map coord (T) N504,125.3 E496,642.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

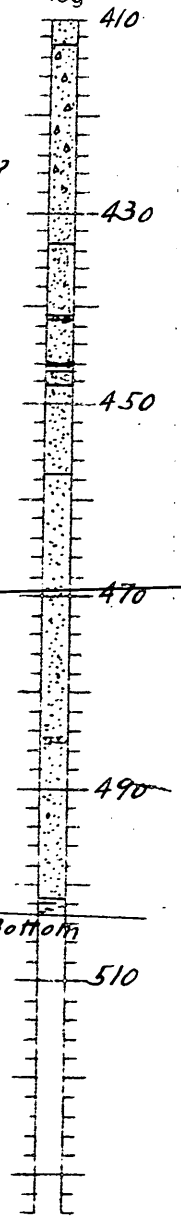
Claim Dede No. 6
Date completed 7-7-55
Date logged 7-8-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole; OBSS from 409.0 to 501.7 thick 92.7; SS color Wh-Lt. Gy; MS some; Cbn. Sparse

DRILL-LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
429.0	18.2	412.8	2.8	100	SS	Wh-Lt.Gy	F-V.F		thn sm 211.1		Plug bit 0-410' SS penetrated at 409.0; dmb-dmsw Contact 409.0?
		433.8	21.0	97.4	SS	Wh-Lt.Gy	F-M+C Congl	Angular bleached pbls in Congl	sms 418.0-418.3 thn sm 433.7		Thdd F-M grained unsorted ss + C congl.
		441.0	7.2	83.3	SS	Lt.Gy	F-V.F				soft + tbl
		441.4	0.4	100	SS	Gy	M-C congl			Numerous Gy pbls	
448.0	17.8	447.2	5.8	100	SS	Lt. Gy	F-C	Some R. Chert pbls		OCC. Gy pbls	SS poorly sorted + well cemented
											Thin weakly mineralized streak 446.8
		448.2	1.0	100	SS	Gy	F-C			Large Gy pbls	large Gy Ms pbls = 60%
		457.8	9.6	100	SS	Lt. Gy	F-V.F				Bedding 65° to core 464.3-467.8
467.0	19.0	501.7	43.9	100	SS	Gy	F-M			Gn sms + pbls 486.1-486.6	
										Gn pbls abundant 500.4-501.2	
503.0	17.0	503.0	1.3	100	Ms-sts	Gn					

Graphic log



Sample Base	Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$
446.8	0.1	0.05		15.2					
Sample No. 339 Actual Core 0.1'									

Interval Base	Thick	γ ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			446.8	0.1	0.02	
			Babbel probe results			

*Assays marked 'e' are from lab gamma-ray readings

GPO 85524.

Hole No. A-13

RECEIVED
DEC 19 1955

GEOLOGIC AND ASSAY LOGS

Drill-hole No. A-14 ( )
Inclination Vert Bearing down
Total depth 372
Collar elev. 4,424.2 T F
Area San Rafael Reef

Map coord (T) N504,214.0 E496,312.4
Map coord (P)
Sec. 22 T. 21S R. 14 E
County, State Emery, Utah

Claim Dede No. 6
Date completed 6-3-55
Date logged 6-3-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Mineralized ; OBSS from 301.8 to 361.5 thick 59.7 ; SS color Lt. Gy ; MS Some pbls ; Cbn. sparse sms FKs.

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		286.0	1.0	100	SS	Lt. Gy Gn	V.F+ silty				Plug bit 0-285
		286.9	0.9	100	Ms	Gn					
		291.0	4.1	100	Sts + silty ss	DGy Gn + R					
		296.6	5.6	100	SS	Wh	F	Occ R chert pbls			Limy + well cemented at base
		301.8	5.2	100	Ms	Rt Gn					
304.0	19.0	304.5	2.7	100	SS	Gy Gn Lt. Gy	F to silty				Jmb-Jm s.w. contact gradational
		332.9	28.4	100	SS	Lt. Gy	F-C Congl.	Angular bleached pbls in congl.			301.8 304.5
323.0	19.0										
		338.2	5.3	100	SS	Lt. Gy	F		SPX 338.0		Thn sm. radioactive asphaltic mtl. in carbonaceous Ms sm 337.9-338.0; Xbdg 75°
		339.7	1.5	100	SS	Lt. Gy	F-M			small Gy pbls	
342.0	19.0	355.1	15.4	100	SS	Lt. Gy	F		SPX 353.2-355.1	Gn pbls	Xbdg near base @ 65°
		355.7	0.6	100	Sts	Gy Gn					
		361.5	5.8	100	SS	Lt. Gy	V.F				
361.0	19.0	363.0	1.5	100	Sts	Gy Gn					
		365.5	2.5	100	SS	Gy	V.F+ silty				
		366.0	0.9	100	Ms Sts	Gy Gn					
		368.3	2.3	100	SS	Gy	V.F+ silty				
372.0	8.9	372.0	3.7	00	Ms	Gy?					Core lost bottom 2'; Driller reports Ms.

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$
338.0	0.2	0.01							
Sample No. 325									
Actual Core 0.2									

Interval Base	Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			340.8	0.2	0.06	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-14

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev. 4,471.6 T P
Area San Rafael Reef

Map coord (T) N504,866.7 E497,180.6
Map coord (P)
Sec. 22 T 21S R 14E
Co., State Emery, Utah

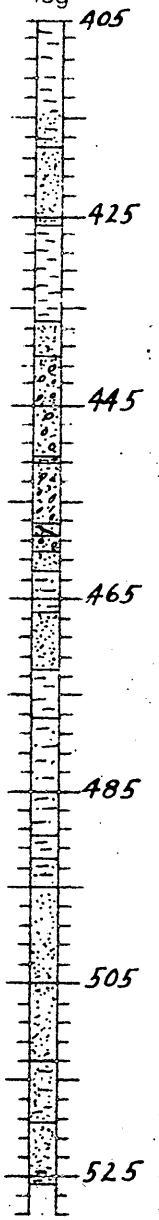
Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by JE Morgan

Rev		
Ed		

Summary of log mineralized hole; OBSS from 436.8 to 462.6 thick 26.6; SS color Lt. Gy; MS Some, Cbn. Some

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		418.3	13.3	100	Ms	R & Gn	Sandy				Plug bit 0-405' Jmb-Jmsw
424.0	19.0	426.0	8.7	100	Ss	Lt. Gy	F-VF	Angular red chert pbls near base			Contact 436.8
		436.8	10.8	100	Ms	R & Gn	Sandy				Grain becomes coarse & poorly sorted
443.0	19.0	442.5	5.7	100	Ss	Lt. Gy	M-F				near base
		451.0	8.5	100	Ss	Lt. Gy	Congl.	Angular bleached appearing pbls		Gn pbls, A	
		451.8	0.8	100	Ss	Lt. Gy	F				
		457.3	5.5	100	Ss	Lt. Gy	Congl.	Angular bleached appearing pbls		Gn pbls, some	
		457.9	0.6	100	Ss	D Gy	F		blebs	thn D Gy sms	Weak R.A. in vitreous asphaltic blebs
		459.3	1.5	100	Ss	Lt. Gy	Congl.				within carbonaceous Ms sms.
462.0	19.0	462.6	3.3	100	Ss	Lt. Gy	F	Angular red chert pbls near base			Grain coarse & poorly sorted near base.
		466.4	3.8	100	Sts	Gy-Gn					
		472.1	5.7	100	Ss	Lt. Gy	VF & silty			Occ. thn Gy sms	
476.0	12.9	477.1	5.0	78.0	Ms	R & Gn					
		489.8	12.7	100	Sts	R & Gn					Occ. thn lenses Gy Gn silty ss
		491.8	2.0	100	Ms	R & Gn					
495.0	19.0	495.0	3.2	100	Sts	R & Gn					
		513.0	18.0	100	Ss	Wh ~~R & Gn~~ Lt Gy	F-VF	Occ. R. chert pbls			
514.0	19.0	519.3	6.3	100	Ss	Wh-Lt Gy	F-VF		blebs	Gy sms & pbls, A	Vitreous asphaltic blebs 517.5
		525.5	6.2	100	Ss	Wh-Lt Gy	F-VF			Gy sms & pbls near base	
529.0	15.0										

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
457.9	0.6	0.02		3.5									457.9	0.6	0.01	
Sample No. 323													Babbel probe results			
Actual core 0.6'																

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. A-15 Page 1 of 3

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev. 4471.6 T P
Area San Rafael Reef

Map coord (T) N504,866.7 E497,180.6
Map coord (P)
Sec 22 T. 21S R. 14E
Co., State Emery, Utah

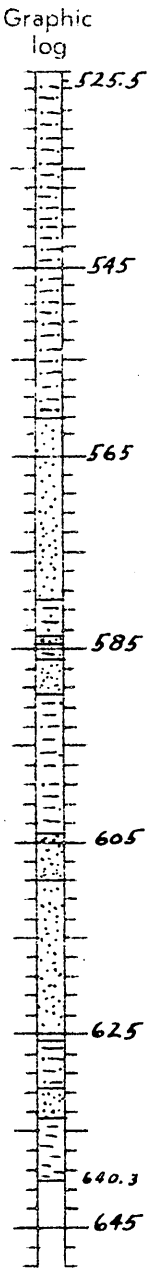
Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by J.E. Morgan

Rev		
Ed		

Summary of log ; OBSS from to thick SS color ; MS ; Cbn.

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's	Cbn	MS in SS	Remarks
548.0	17.2	561.0	35.5	94.7	Sts	R+Gn					
		579.8	18.8	100	SS	Wh	F-V.F			Gn pbls, S at base	
566.0	18.0	583.3	3.5	100	Ms+sts	R+Gn					
		584.2	0.9	100	SS	Lt. Gy	V.F				SS well cemented
585.0	19.0	586.0	1.8	100	Sts	R+Gn					
		589.8	3.8	100	SS	Lt. Gy	V.F	Thn R chert congl. lens			
604.0	19.0	604.0	14.2	100	Sts+Ms	R+Gn					
		609.0	5.0	100	SS	Lt. Gy	VF+Silty			Thn gn Sms.	
623.0	9.5	625.8	16.8	43.5	SS	Lt. Gy	VF				
		630.9	5.1	100	Sts	D Gy					
		633.6	2.7	100	SS	Lt. Gy	V.F				SS very well cemented
		640.3	6.2	91.9	Ms	D Gy	Sandy near base				Abundant R. chert & white gypsum nodules 638.8 – 648.8

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5



*Assays marked "e" are from lab gamma-ray readings

GPO 835041

GEOLOGIC AND ASSAY LOGS

Drill hole No. A-15 ( )
Inclination Vert Bearing down
Total depth 656
Collar elev. 4471.6 T P
Area San Rafael Reef

Map coord (F) N 508867 E 497180.6
Map coord (P)
Sec. 22 T. 21 S R. 14 E
Co., State Emery, Utah

Claim Dede No. 5
Date completed 5-23-55
Date logged 5-24-55
Logged by J E Morgan

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

Graphic log

640.3

Bottom 660

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
642.0	18.5	648.8	8.5	83.3	Sts	R-Br					Base Jmsw? 648.8
656.0	12.6	656.0	7.2	100	Gyp	Wh & Or	massive			Thn. sms Gy Sts	

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-1 ( )
Inclination Vert Bearing down
Total depth 502
Collar elev. 4,484.4 T P
Area San Rafael Reef

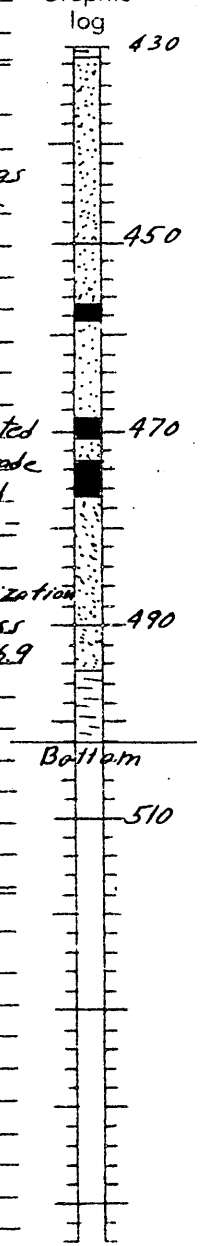
Map coord (T) N503,177.2 E496,607.3
Map coord (P)
Sec. 22 T. 21S R. 14E
Co., State Emery, Utah

Claim Dede No. 8
Date completed 7-15-55
Date logged 7-16-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Ore Hole OBSS from 430.9 to 490.0 thick 59.1 ; SS color Wh-Lt.Gy ; MS — ; Cbn. —

DRILL LOG		LITHOLOGIC LOG									
Depth	~~Rec fr.~~ sample interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		432.0	2.0		Ms-Sts	Rt Gn					Non-Core throughout; Cuttings
430-445	5'	455.0	23.0		SS	Wh-Lt.Gy	F-M				sampled 430-502; projected Jmh-
		457.0	2.0		SS	Wh-Lt.Gy	F-M-V.C				Jmsw contact 430.9
		463.0	5.0		SS	Wh-Lt.Gy	F-M				
445-455	2'	495.0	32.0		SS	Wh-Lt.Gy	F-V.F				
		502.0	7.0		Ms-Sts	Rt Gn					Driller reports Ms penetrated
455-470	1'										at 490 ft.
470-480	2'										No significant radioactivity detected
480-502	5'										in cuttings sampled. Sub-ore grade
											U_3O_8 mineralization indicated
											by probe 458.2-459.8, 468.6-
											470.4, 472.4-473.4, and
											476.9-477.3. U_3O_8 mineralization
											of ore-grade and thickness
											indicated by probe 473.7-476.9



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													459.8	1.6	0.06	
													470.4	1.8	0.06	
													473.7	1.3	0.03	
													476.9	3.2	0.22	
													477.3	0.4	0.03	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 8350 41

Hole No. B-1

GEOLOGIC AND ASSAY LOGS

B-2 ( )
Vert. Bearing down
500
4479.8 T P
San Rafael Reef

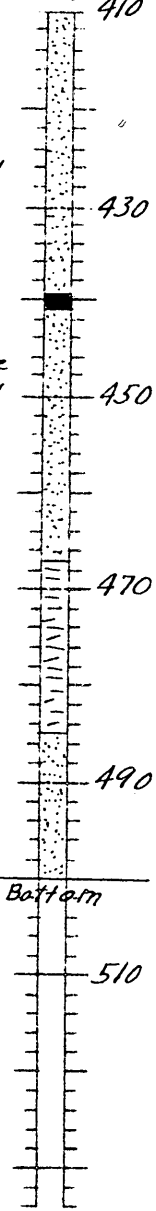
Map coord (T) N503,152.2 E 496,455.6
Map coord (P)
Sec 22 T 21S R 14E
State Emery, Utah

Claim Dede No. 8
Date completed 7-14-55
Date logged 7-15-55
Logged by J.E. Morgan

Rev		
Ed		

Mineralized Hole Cut Int 410.0 to 467.0 Thick 57.0 ; SS color Wh-Lt Gy ; Ms — ; Cbn —

Graphic log



DRILL LOG

Depth	~~Rec int~~ Sample Interval
420-435	5'
435-445	2'
445-465	1'
465-475	2'
475-500	5'

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
467.0	57.0		SS	Wh-Lt.Gy	F-M				Non-Core throughout; Cuttings sampled 420-500; Projected Jmb-Jmsw contact 410.0
485.0	18.0		Ms-sts	Rt.Gn					
500.0	15.0		SS	Wh-Lt.Gy	F-V.F				
									No significant radioactivity detected in cuttings sampled. Probe indicates sub-ore grade U_3O_8 mineralization 439.8-441.1

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8

γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
441.1	1.3	0.03	
Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-2

GEOLOGIC AND ASSAY LOGS

Drill Hole No. B-3 ( )
Inclination Vert Bearing down
Total depth 482
Collar elev. 4487.7 T P
Area San Rafael Reef

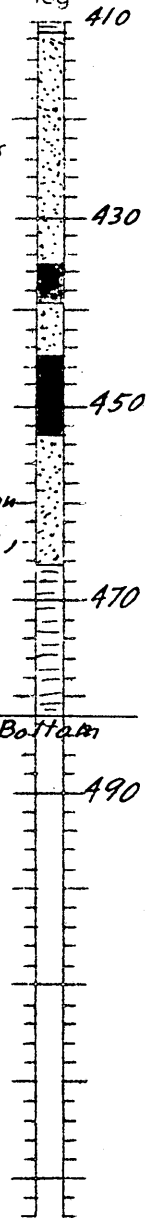
Map coord. T. N503,097.4 E 496,367.2
Map coord. Lat
Sec 22 T 21S R 14E
County Emery, Utah

Claim De de No. 8
Date completed 7-13-55
Date logged 7-14-55
Logged by J C Morgan

Rev		
Ed		

Summary of log Ore Hole Less from 411.2 to 466.0 Thick 54.8 SS color Wh-Lt Gy MS — Cbn —

Graphic log



DRILL LOG

Depth	~~Rec ft~~ Sample Interval
410-425	5'
425-435	2'
435-450	1'
450-460	2'
460-482	5'

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
415.0	5.0		Ms-sts	R+Gn					Non-Core throughout; Cuttings sampled 410-482; Predected Jmb-Jmsw contact 411.2
425.0	10.0		SS	Wh-Lt Gy	M-F				
427.0	2.0		SS	Wh-Lt Gy	M-F-C				
466.0	39.0		SS	Wh-Lt Gy	M-F				
482.0	16.0		Ms-sts	R+Gn					Hole Caving badly all samples contaminated + unreliable. Driller reports Ms penetrated at 466.0 ft.
									No significant radioactivity detected in cuttings sampled. Sub-ore grade U_3O_8 mineralization indicated by probe 435.3-437.3, 438.8-439.4, 445.2-446.0, + 451.5 453.5. U_3O_8 mineralization of ore-grade + thickness indicated by probe 437.3-438.8 + 446.0-451.5

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8

γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
437.3	2.0	0.06	
438.8	1.5	0.17	
439.4	0.6	0.05	
446.0	0.8	0.04	
451.5	5.5	0.18	
453.5	2.0	0.05	
Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-3

GEOLOGIC AND ASSAY LOGS

Drill hole No. B-4 ( )
Inclination Vert Bearing down
Total depth 489
Collar elev 4,505.3 T P
Area San Rafael Reef

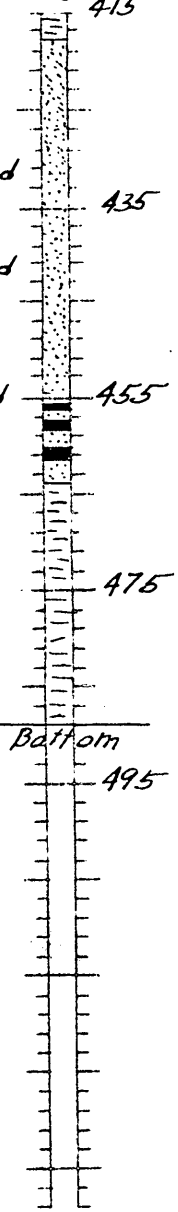
Map coord (E) N503,260.5 E496,304.6
Map coord (P)
Sec. 22 T. 21S R. 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 7-15-55
Date logged 7-16-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 418.6 to 464.0 thick 45.4 SS color Wh-Lt Gy ; MS — Cbn Some spx

Graphic log



DRILL LOG Depth	~~Rec ft~~ Sample Interval	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		418.0	3.0		Ms-Sts	Rt Gn					Non-Core throughout; Cuttings
		441.0	23.0		SS	Wh-Lt Gy	M-F		spx 436-437		sampled 415-489; projected
415-425	5'	442.0	1.0		SS	Wh-Lt Gy	F-V.F				Jmb-Jmsw contact 418.6
		449.0	7.0		SS	Wh-Lt Gy	F-M				
425-435	2'	464.0	15.0		SS	Wh-Lt Gy	F-V.F				Driller reports Ms penetrated
435-450	1'	489.0	25.0		Ms-Sts	Rt Gn					at 464
450-460	2'										No significant radioactivity
460-489	5'										detected in cuttings sampled
											Probe indicates sub-ore
											grade U_3O_8 mineralization
											455.2-455.9, 457.1-458.7,
											460.2-461.7

Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			455.9	0.7	0.04	
			458.7	1.6	0.04	
			461.7	1.5	0.09	
			Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-4

GEOLOGIC AND ASSAY LOGS

Drill hole No. B-7 ( )
Inclination Vert Bearing down
Total depth 411
Collar elev. 4,456.6 T P
Area San Rafael Reef

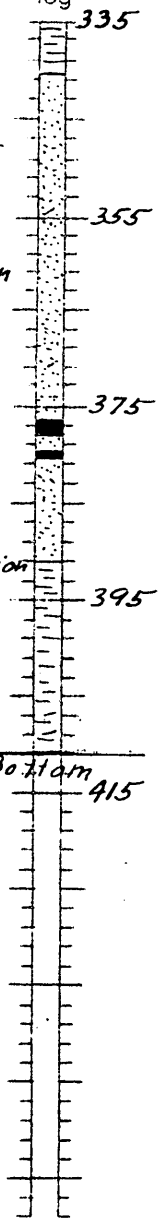
Map coord (ft) N503267.1 E496,062.5
Map coord (m)
Sec. 22 T 21S R 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 7-17-55
Date logged 7-18-55
Logged by J C Morgan

Rev		
Ed		

Summary of log Ore Hole OBSS from 340.9 to 391.0 thick 50.1 ; SS color Wh-Lt Gy ; MS — ; Cbn spx

Graphic log



DRILL LOG Depth	~~Rec ft.~~ Sample Interval	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		346.5	11.5		Ms-sts	R+Gn					Non-Core throughout; Cuttings sampled 335-411; Predected Jmb-Jmsw Contact 340.9
		350.0	3.5		ss	Wh-Lt.Gy	F-V.F				
335-355	5'	379.0	29.0		ss	Wh-Lt.Gy	M-F				
355-365	2'	391.0	12.0		ss	Wh-Lt.Gy	F-V.F		FKs 379-384		
365-380	1'	411.0	20.0		Ms-sts	R+Gn					Driller reports Ms penetration at 391.0 ft.
380-390	2'										
390-411	5'										
											No significant radioactivity detected in cuttings sampled. Probe indicates U_3O_8 mineralization of ore grade thickness 376.6-377.9, Probe indicates sub-ore grade U_3O_8 mineralization 380.0-380.9

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
			377.9	1.3	0.10	
			380.9	0.9	0.07	
			Babbel Probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-7

GEOLOGIC AND ASSAY LOGS

Drill hole No. B-8 ( )
Inclination Vert. Bearing down
Total depth 415
Collar elev. 4,483.8 ft
Area San Rafael Reef
Map location (L) N503,265.9 E495,903.6
Map record (P)
Sec. 22 T. 21 S. R. 14 E.
County, State Emery, Utah
Claim Dede No. 8
Date completed 7-18-55
Date logged 7-18-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 344.8 to 398.0 Thick 53.2 SS color Wh-Lt-Gy MS — Cbn. SPX

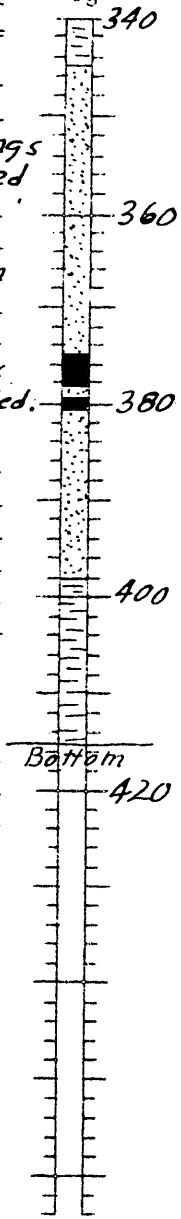
DRILL LOG

Depth	~~Run~~ Sample Interval
340-360	5'
360-370	2'
370-385	1'
385-395	2'
395-415	5'

LITHOLOGIC LOG

Base	Thick	Rock	Rock	Color	Grain	Access Min's.	Cbn	MS in SS	Remarks
345.0	5.0		Ms-Sts	Rt-Gn					Non-Core throughout; Cuttings sampled 340-415; projected Jmb-Jmsw Contact 344.8
371.0	26.0		SS	Wh-Lt-Gy	F-V.F				
389.0	18.0		SS	Wh-Lt-Gy	M-F		SPX 475-476		
398.0	19.0		SS	Wh-Lt-Gy	F-V.F.				
415.0	17.0		Ms-Sts	Rt-Gn					Driller reports Ms penetration at 49.8 ft
									No significant radioactivity detected in cuttings sampled. Probe indicates sub-ore grade U_3O_8 mineralization 374.8 - 378.2, 379.9 380.3

Graphic log



Sample Base	Sample Thick	Lab assay (%) U_3O_8	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8

γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
378.2	3.4	0.02	
380.3	0.4	0.02	
Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-8

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-9 ( )
Inclination Vert Bearing down
Total depth 416.0
Collar elev. 4,475.8 T P
Area San Rafael Reef

Map coord (T) N503,101.6 E495,900.9
Map coord (P)
Sec. 22 T 21S R. 14E
Co., State Emery, Utah

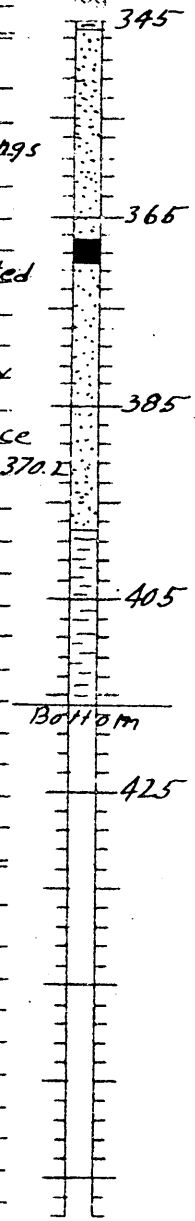
Claim Dede No. 8
Date completed 7-19-55
Date logged 7-20-55
Logged by J E Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 345.4 to 498.0 thick 52.6 ; SS color Wh-Lt.Gy ; MS — ; Chn. —

DRILL LOG		LITHOLOGIC LOG									
Depth	~~Rec ft~~ Sample Interval	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		347.5	2.5		Ms-Sts	R+Gn					Non-Core throughout; Cuttings
340-360	5'	378.0	30.5		SS	Wh-Lt.Gy	M-F				sampled 340-416; Projected
		400.0	22.0		SS	Wh-Lt.Gy	F-V.F				Jmb-Jmsw contact 345.4
360-370	2'	416.0	16.0		Ms-Sts	R+Gn					
370-385	1'										Driller reports Ms penetrated at 398.0 ft.
385-395	2'										No significant radioactivity
395-416	5'										detected in cuttings sampled. probe indicates trace U_3O_8 mineralization 362.4-370.2

Graphic log



Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5
													370.2	2.8	Tr	
													Babbel probe results			

*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-9

GEOLOGIC AND ASSAY LOGS

Drill-hole No. B-10 ( )
Inclination Vert Bearing down
Total depth 414
Collar elev. 4,453.4 T P
Area San Rafael Reef

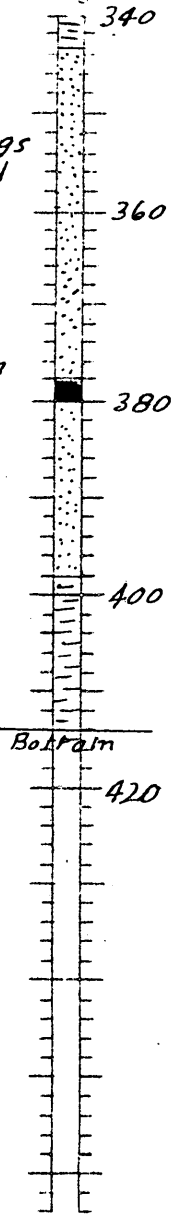
Map coord (P) N503,137.9 E496,077.0
Map coord (P)
Sec 22 T 21S R 14E
Co. State Emery, Utah

Claim Dede No. 8
Date completed 7-16-55
Date logged 7-17-55
Logged by J. E. Morgan

Rev		
Ed		

Summary of log Mineralized Hole OBSS from 343.5 to 398.0 thick 54.5 SS color Wh-Lt.Gy MS — Cbn. Spx

Graphic log



DRILL LOG Depth	~~Rec ft.~~ Sample Interval	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		346.5	6.5		Ms-Sts	R+Gn					No ore throughout; Cuttings
		350.0	3.5		SS	Lt.Gy.Gn	F-V.F				sampled 340-414, Projected
340-360	5'	360.0	5.0		SS	Lt.Gy-Wh	F-V.F				Jmb-Jmsw contact 343.5
360-370	2'	368.0	8.0		SS	Wh-Lt.Gy	F-V.F-C				
		398.0	30.0		SS	Wh-Lt.Gy	F-V.F		Spx 370-375		Driller reports very hard rock
370-385	1'								382-391		382-391
385-395	2'										
395-414	5'										Driller reports Ms penetration at 398 ft.
											No significant radioactivity detected in cuttings sampled. Probe indicates trace U_3O_8 mineralization 378-380

Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8*	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5
													380.0	2.0	Tr	
													Babbel probe results			

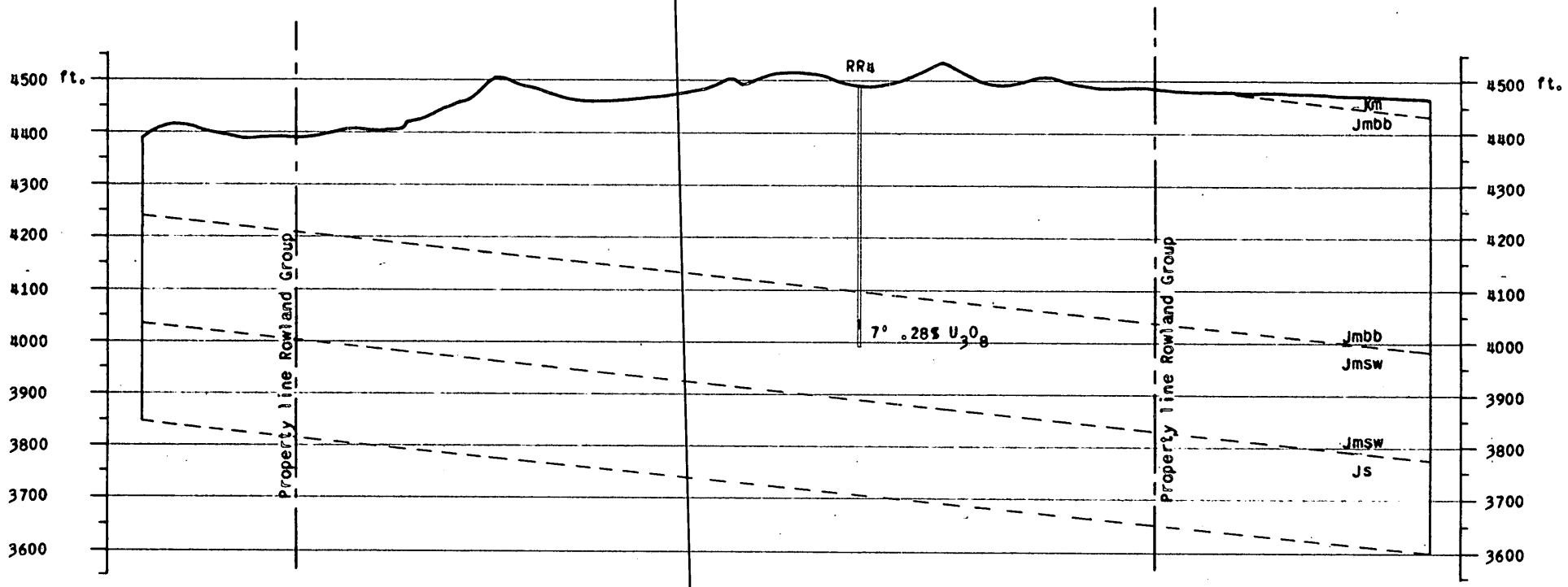
*Assays marked "e" are from lab gamma-ray readings

GPO 835041

Hole No. B-10

N.E. SIDE SAN RAFAEL REEF

Green River Desert



SECTION A-A'

Looking North

Km Mancos Shale

Jmbb Brushy Basin member of Morrison fm.

Jmsw Salt Wash member of Morrison fm.

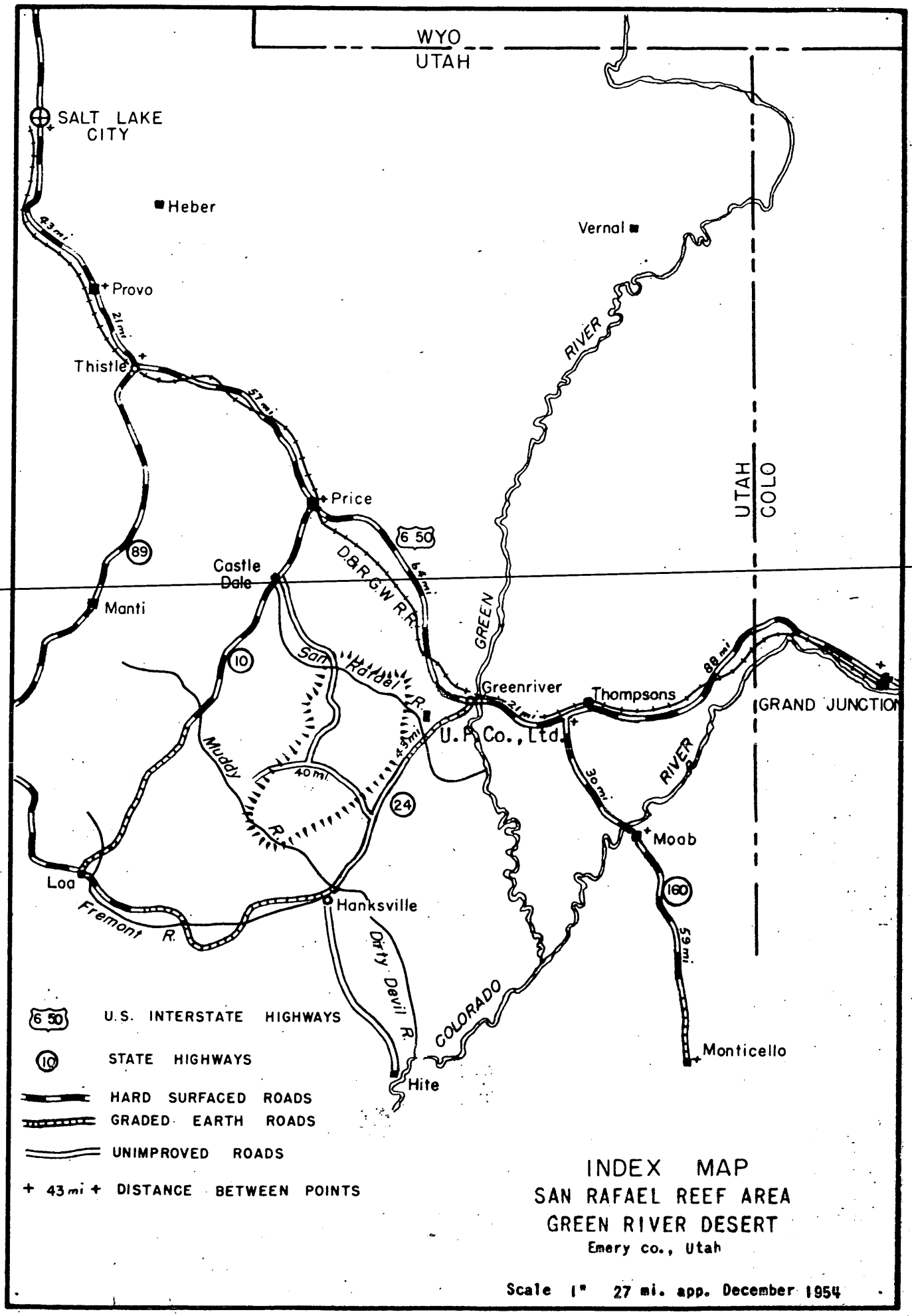
Js Summerville formation.

Horizontal Scale 1" = 300'

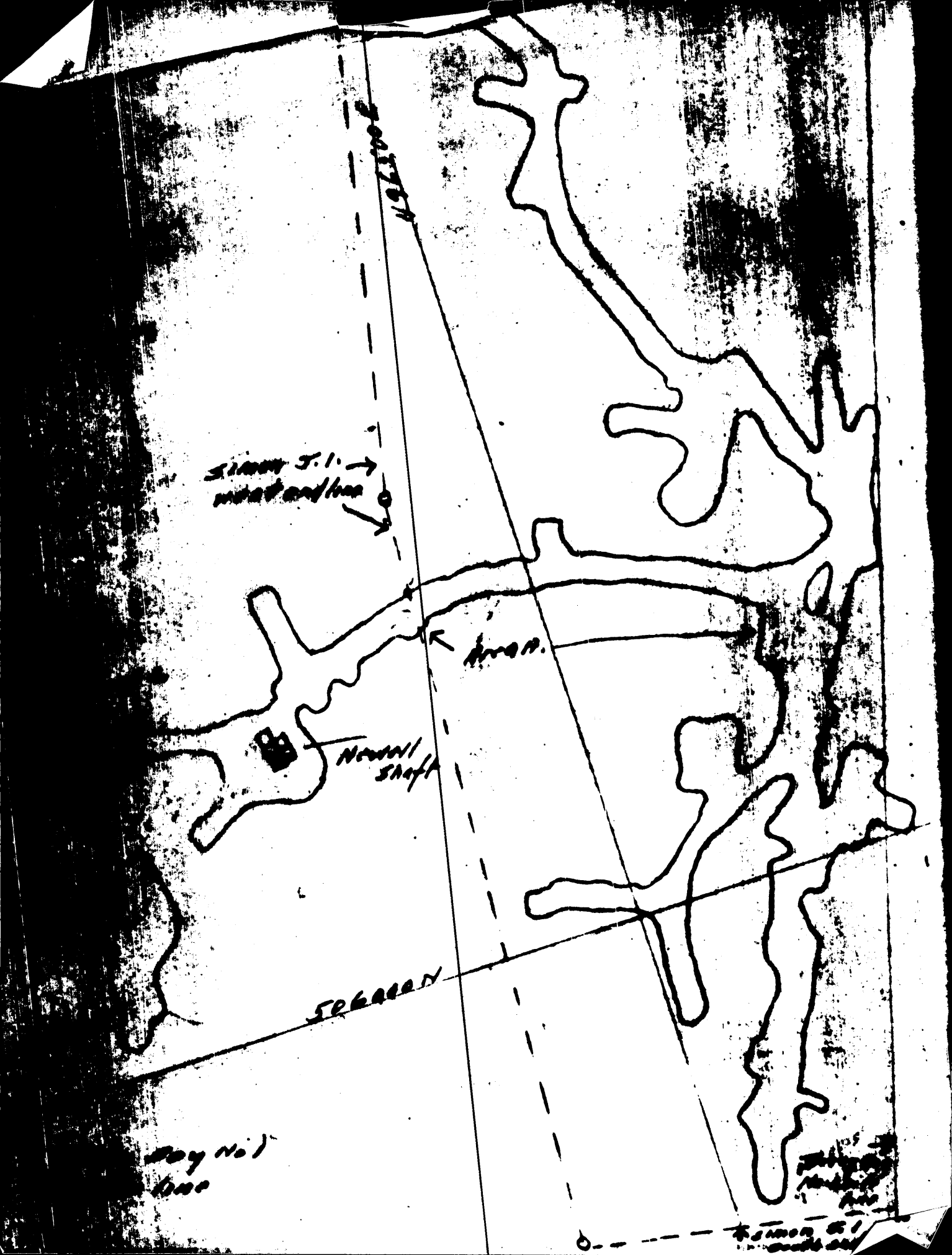
Vertical Scale 1" = 300'

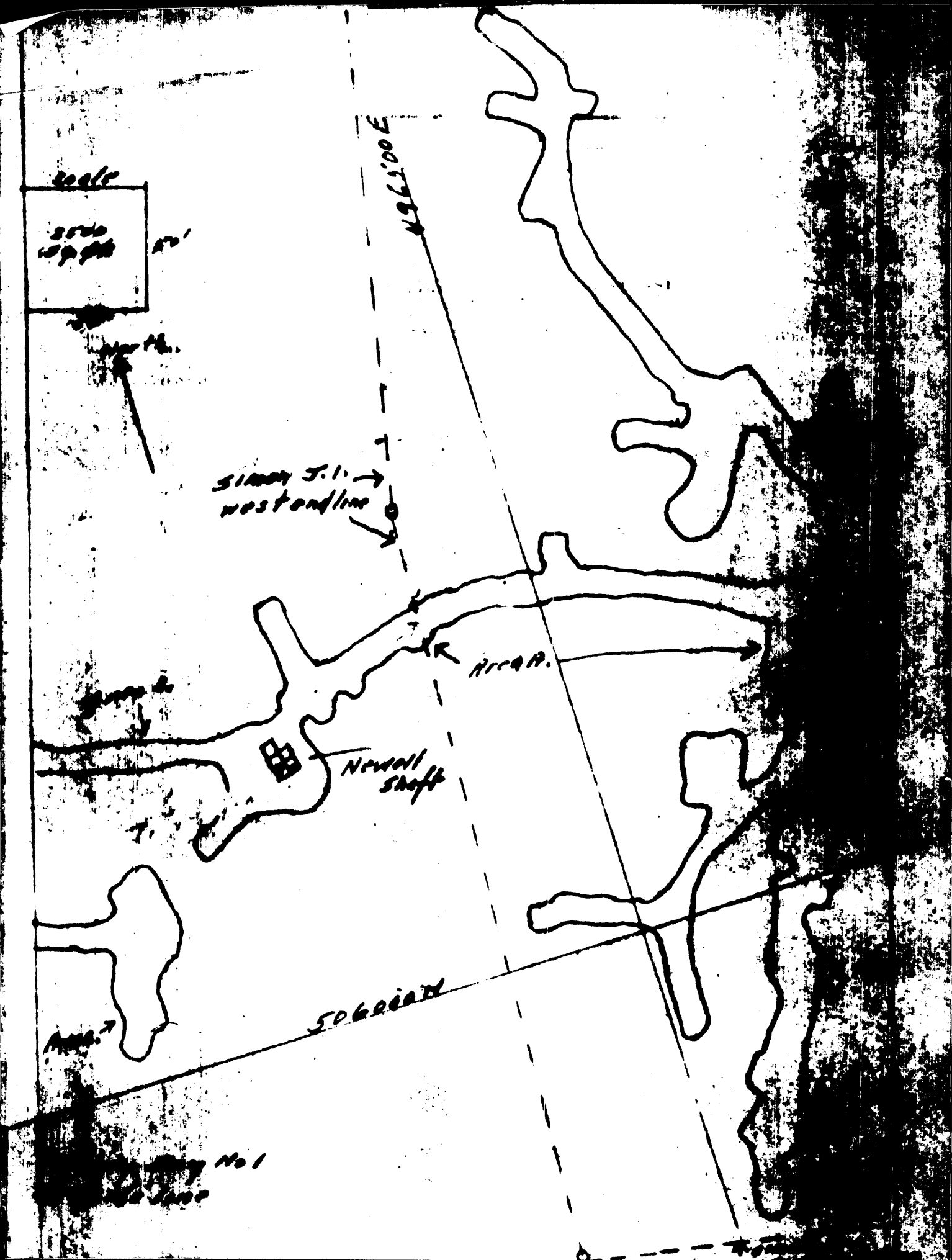
Section taken in area of maximum drilling depths.

Uranium Prospectors Co., Ltd.
718 North 5th. Street
Grand Junction, Colo.

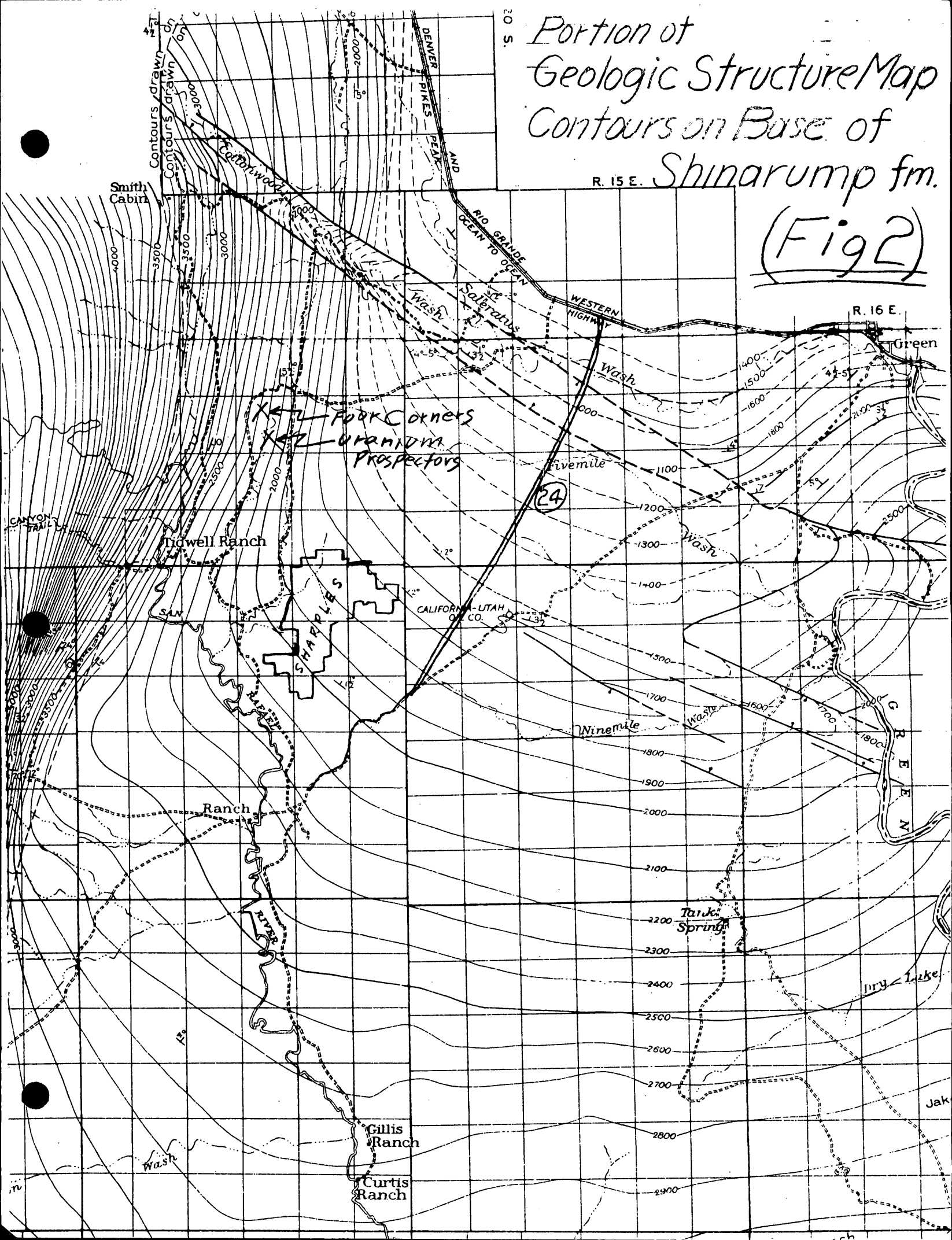

WYO
UTAH
SALT LAKE CITY
Heber
Vernal
Provo
Thistle
Price
Castle Dale
Manti
Loa
Hanksville
Hite
Greenrivier
Thompsons
U. P. Co., Ltd.
Moab
Monticello
GRAND JUNCTION
UTAH
COLO
GREEN RIVER
COLORADO RIVER
D&RGW R.R.
San Rafael R.
Muddy R.
Fremont R.
Dirty Devil R.
43 mi
21 mi
57 mi
64 mi
45 mi
40 mi
21 mi
88 mi
30 mi
59 mi
89
10
24
6 50
160
U.S. INTERSTATE HIGHWAYS
STATE HIGHWAYS
HARD SURFACED ROADS
GRADED EARTH ROADS
UNIMPROVED ROADS
+ 43 mi + DISTANCE BETWEEN POINTS
INDEX MAP
SAN RAFAEL REEF AREA
GREEN RIVER DESERT
Emery co., Utah
Scale 1" 27 mi. app. December 1954

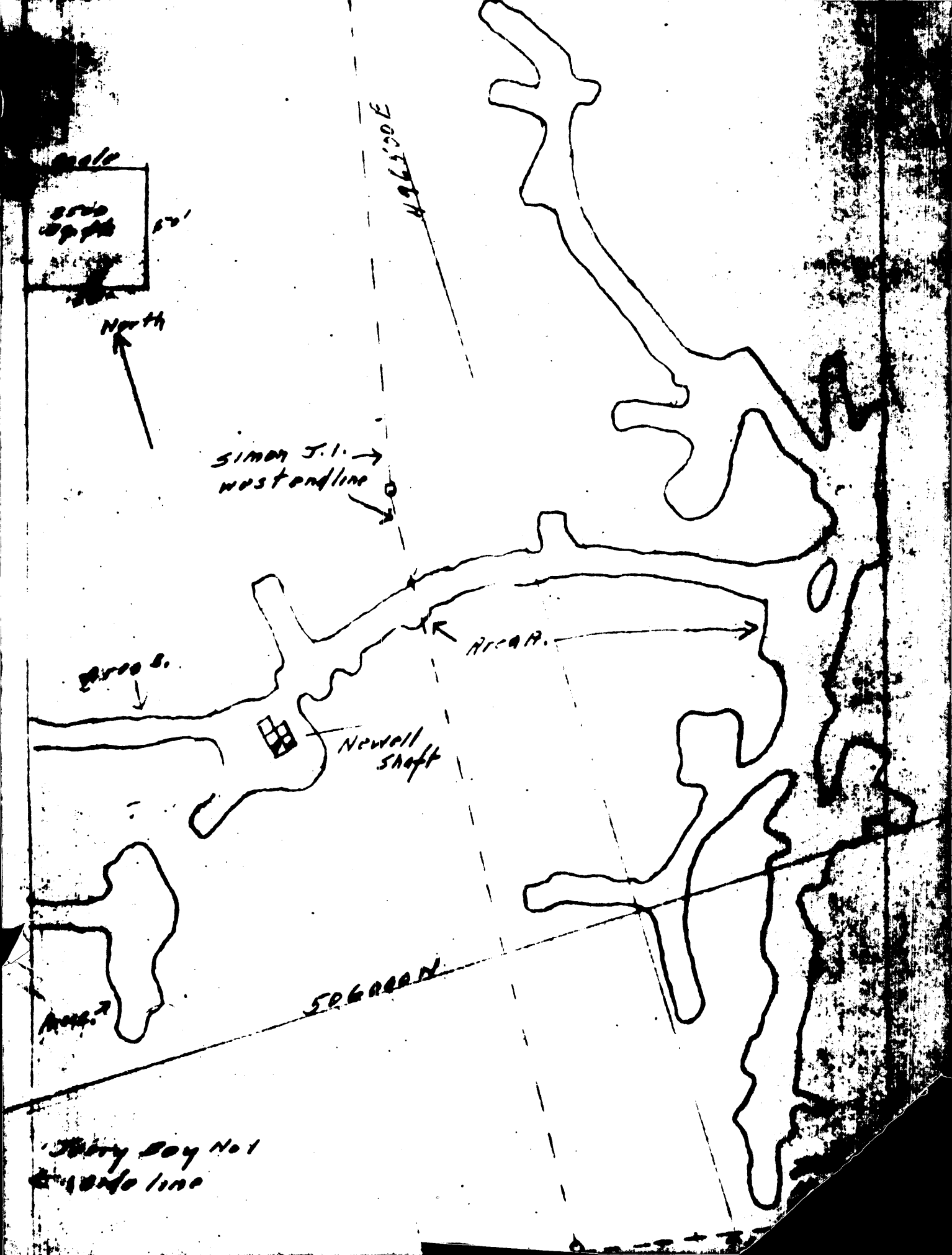
Uranium Prospectors Co., Ltd.
718 North 5th. Street
Grand Junction, Colo.


SHOW S.I.
waterline
AREA.
NEWMI
SHAFT
SEGMENT


Scale
Area A.
Newell Shaft
No 1

Newell
Shaft
SEGMENT


Portion of Geologic Structure Map Contours on Base of Shinarump fm.
(Fig 2)
R. 15 E.
R. 16 E.
Contours drawn
Contours drawn
Smith Cabin
Cottonwood
DENVER AND RIO GRANDE WESTERN
PIKES PEAK
OCEAN TO OCEAN HIGHWAY
Saleratus Wash
Wash
Green
Fork Corners
Uranium Prospectors
Fivemile
24
Tidwell Ranch
CANYON TRAIL
SAN RAFAEL RIVER
SHARPLES
CALIFORNIA-UTAH OIL CO.
Wash
Ninemile Wash
GREEN
Ranch
Tank Spring
Dry Lake
Gillis Ranch
Curtis Ranch
Wash


Scale
North
Simon J.I.
westendline
Area B.
Area A.
Newell
Shaft
Area C.
50 GREEN
Mary Day No 1
Baseline

7.419
7.259
.160

7.599
7.439
.160

7.727
7.579
.148

7.885
7.727
.158

2500 sq ft.
B
.16
15000
2500
4000 sq ft

3
2500
.078
20000
17500
1950.00

8.320
8.245
.075

8.399
8.320
.079

8.245
8.166
.079

8.479
8.399
.080

8.628
8.557
.071

8.557
8.479
.078

8.705
8.628
.077

Use 0.078

0.398
0.206
.192

0.500
0.400
.100

0.6
0.5

0.7

33040

Area 5223

3
25.00
7.5
1200
1750
1875

5 × ½ = 2.5
2.5
3 × ½
1" = 50'
759

Triangular ?

18.5

2601

Attached.

Thor Kilgore

33721

Room 4240 central.

2500

.001
11.58
2.54

50'
50
2500 sq ft

0.1 = 2500 sq. ft

Type Paper on

3.451
2.670
.781 ✓

on Map

A.G.

9.442
8.579
.863 (1)

7.201
3.451
.756 ✓

5.081
4.201
.880

Jumped!

.021

10.177
9.442
.735 ✓ (2)

755
735
781
750
752

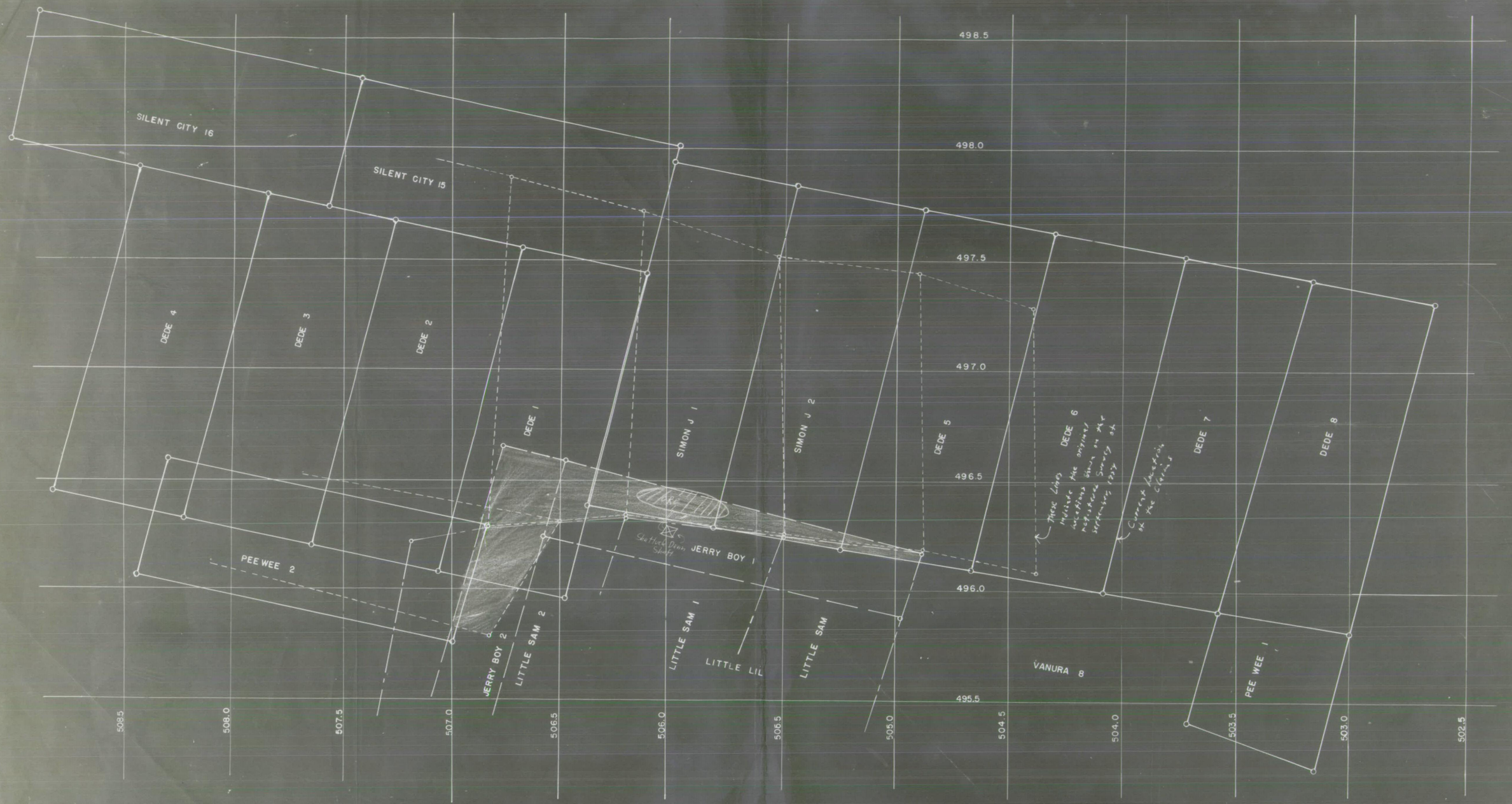
5.833
5.081
.752 ✓

10.932
10.197
.735 ✓ 3

5 | 3.773

Avg .7546

Area A	= 18,865	sq. ft.	76.02 %
Area B	= 4,000	sq. ft.	16.120
Area C	= 1,950	" "	7.850
	24815		

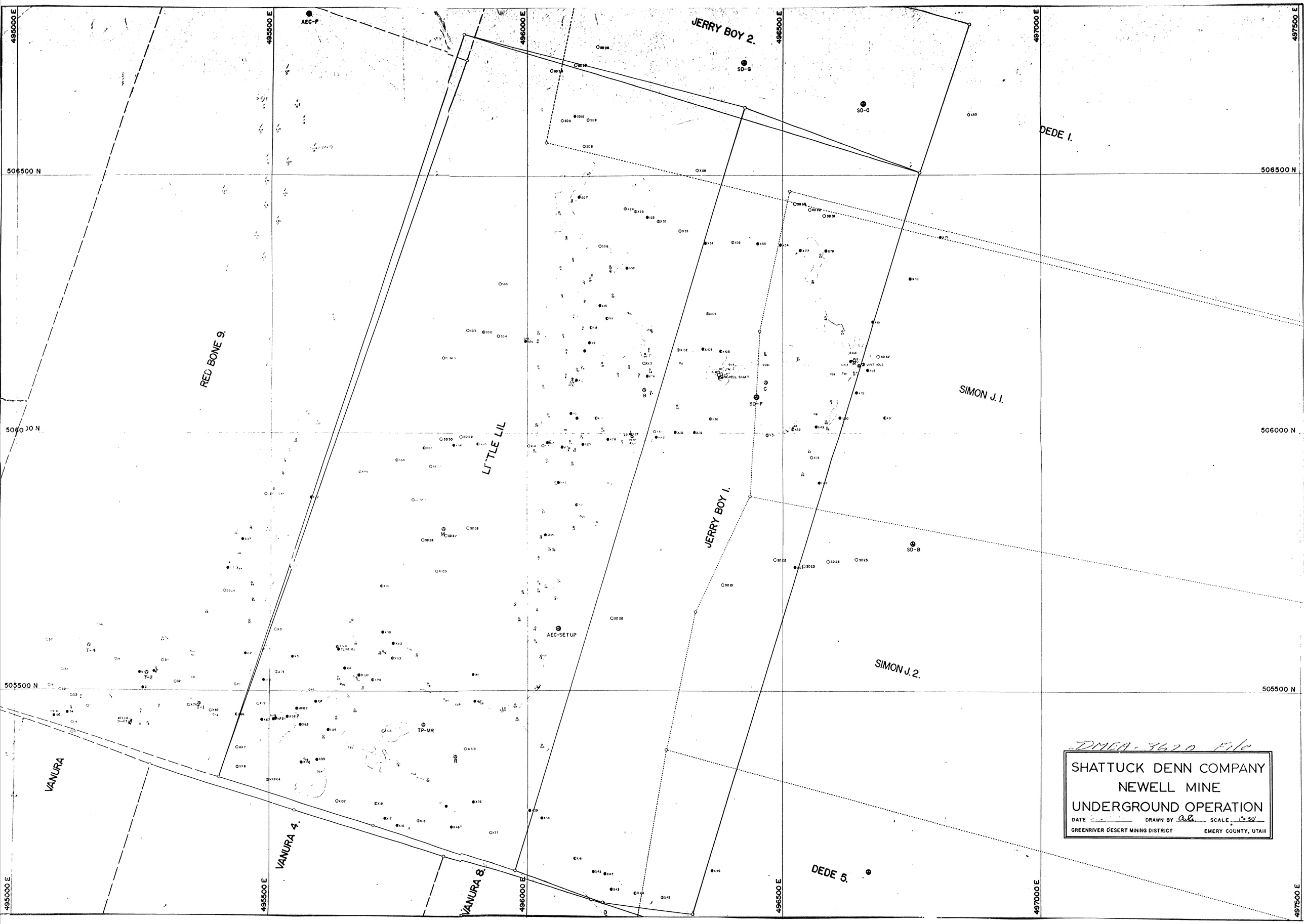


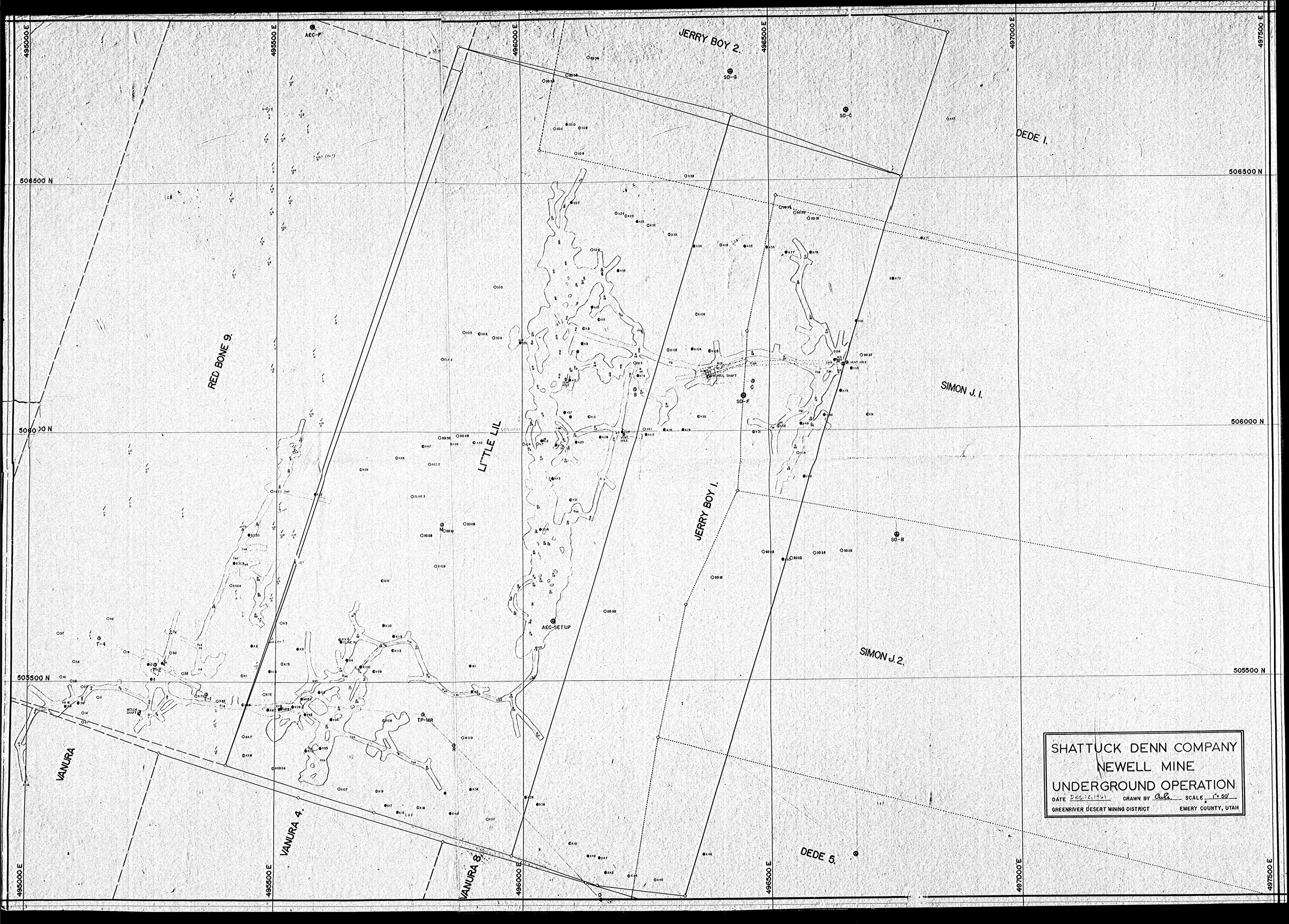
ROWLAND MINING CLAIMS

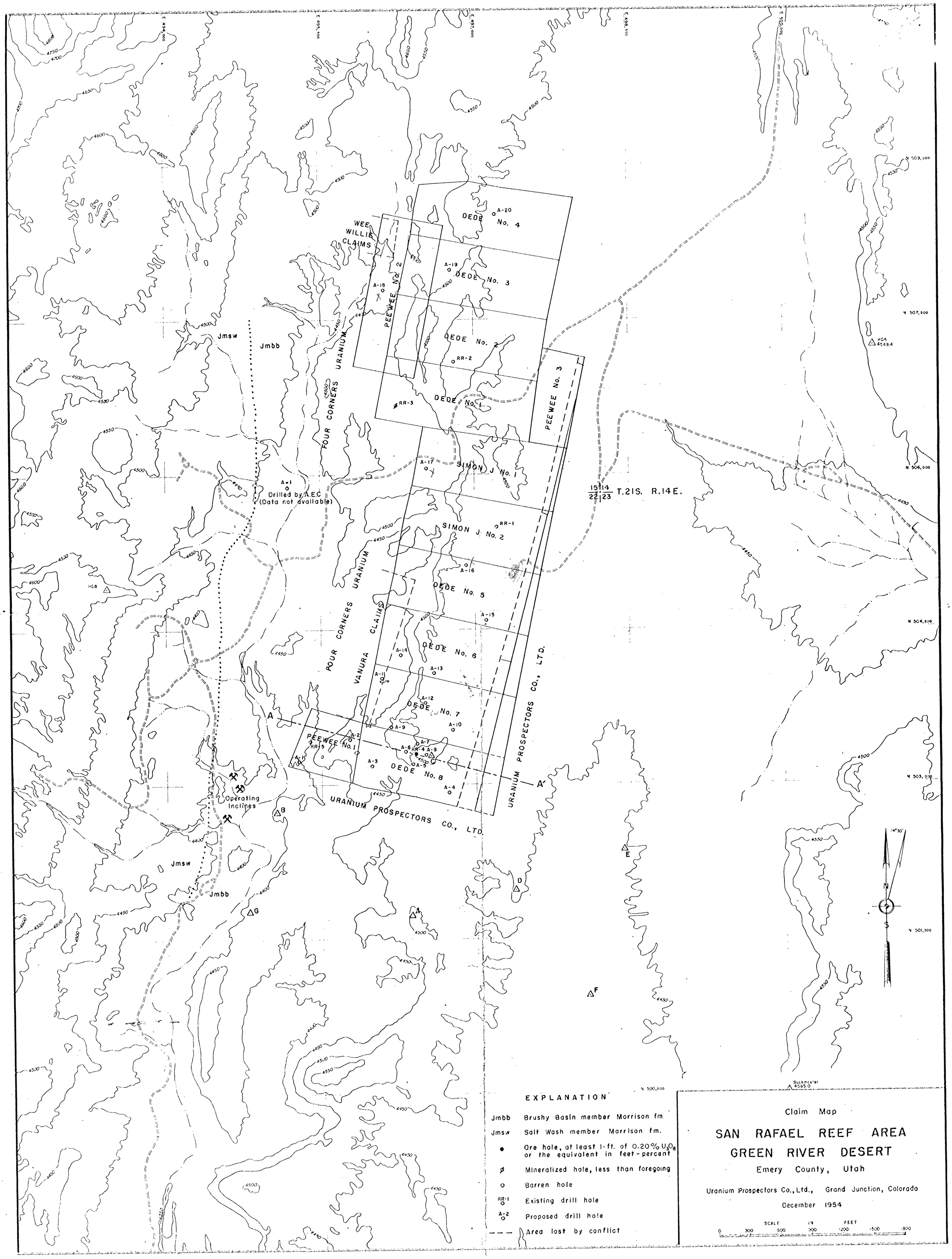
GREEN RIVER, UTAH

Drawn By: D.A. Rowland

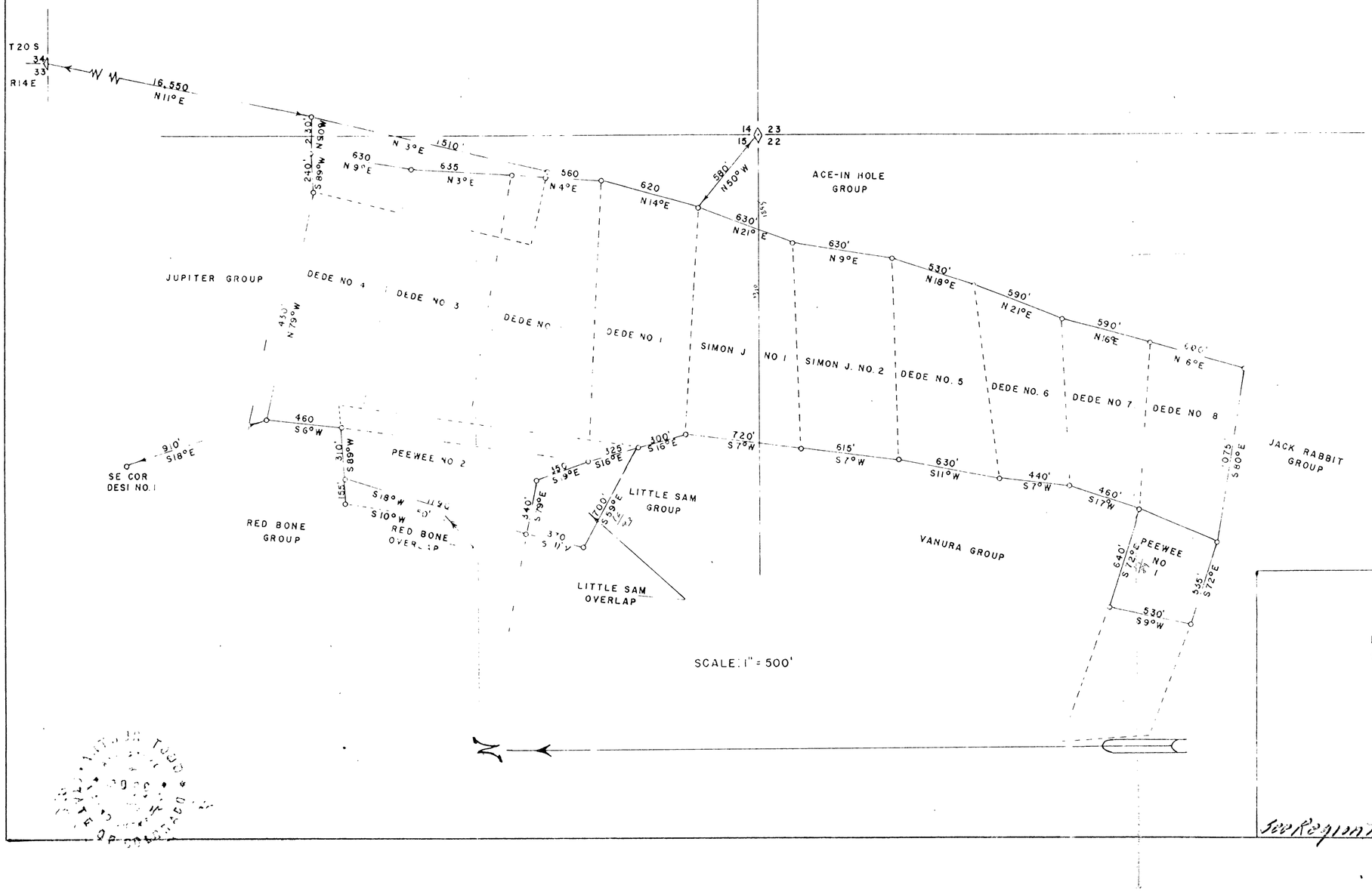
September 1, 1961


495000 E
495500 E
496000 E
496500 E
497000 E
497500 E
506500 N
506000 N
505500 N
AEC-P
JERRY BOY 2.
SD-G
SD-C
DEDE I.
RED BONE 9.
LITTLE LIL
NEWELL SHAFT
VENT HOLE
SD-F
SIMON J. I.
JERRY BOY I.
SD-B
AEC-SETUP
SIMON J. 2.
T-4
T-2
T-1
TP-MR
VANURA
VANURA 4.
VANURA 8.
DEDE 5.
DMEA-7620 File
SHATTUCK DENN COMPANY
NEWELL MINE
UNDERGROUND OPERATION
DATE
DRAWN BY
SCALE 1" = 50'
GREENRIVER DESERT MINING DISTRICT
EMERY COUNTY, UTAH


SHATTUCK DENN COMPANY
NEWELL MINE
UNDERGROUND OPERATION
DATE DEC. 12, 1961 DRAWN BY Cole. SCALE 1" = 50'
GREENRIVER DESERT MINING DISTRICT EMERY COUNTY, UTAH
495000 E
495500 E
496000 E
496500 E
497000 E
497500 E
506500 N
506000 N
505500 N
JERRY BOY 2.
DEDE I.
RED BONE 9.
LITTLE LIL
JERRY BOY I.
SIMON J. I.
SIMON J. 2.
VANURA
VANURA 4.
VANURA 8.
DEDE 5.
AEC-P
SD-G
SD-C
SD-F
SD-B
AEC-SETUP
TP-MR
T-4
T-2
T-1
WELCH SHAFT
VENT HOLE
HOIST SHAFT

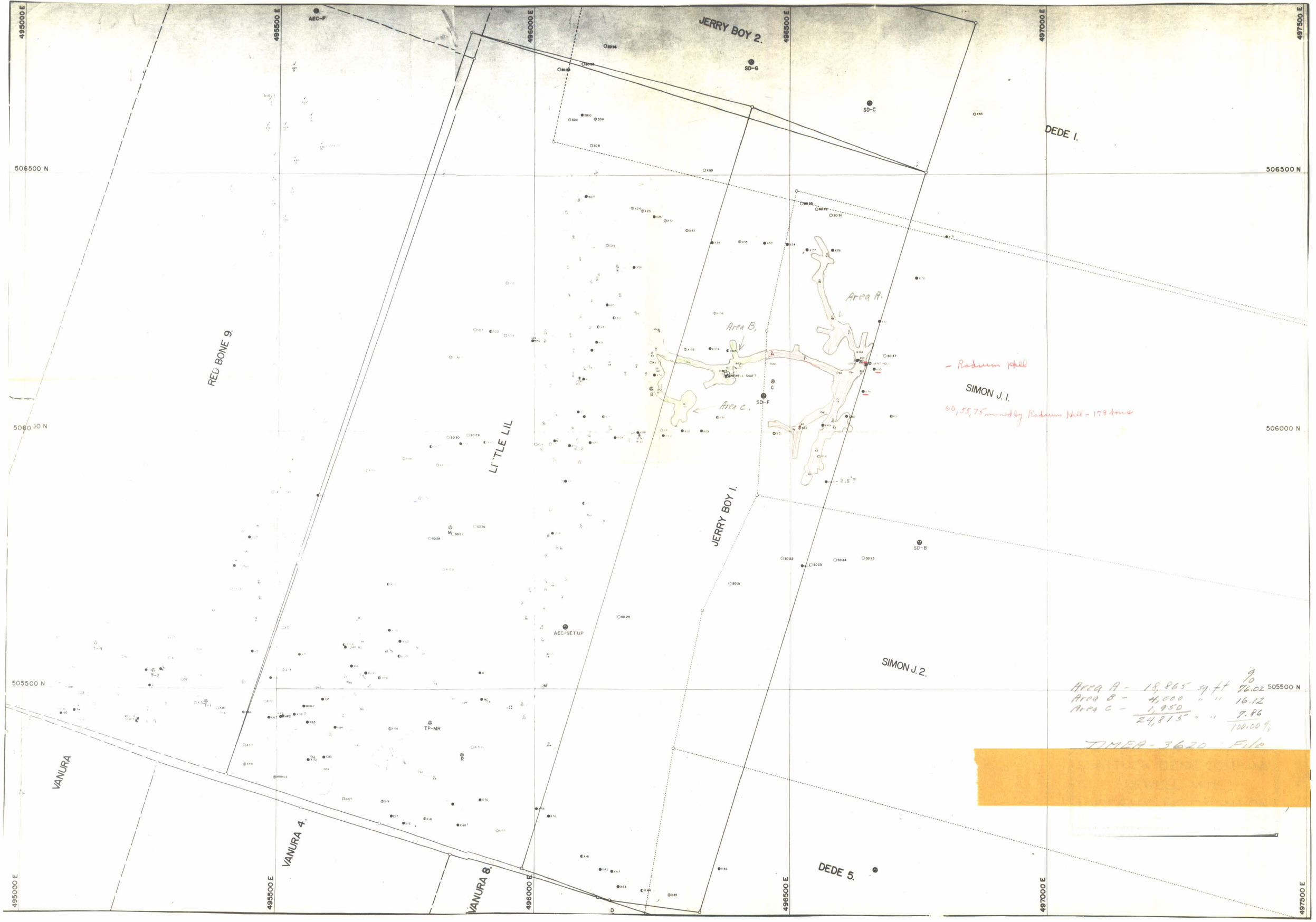

WEE WILLIE CLAIMS
PEEWEE No. 2
DEDE No. 4
DEDE No. 3
DEDE No. 2
DEDE No. 1
PEEWEE No. 3
FOUR CORNERS URANIUM
SIMON J No. 1
SIMON J No. 2
DEDE No. 5
DEDE No. 6
DEDE No. 7
DEDE No. 8
VANURA CLAIMS
PEEWEE No. 1
URANIUM PROSPECTORS CO., LTD.
Jmsw
Jmbb
Drilled by A.E.C. (Data not available)
Operating Inclines
15 14 / 22 23 T.21S. R.14E.
A
A'
B
D
E
F
G
HD5 4549.4
HD8
Buckmaster 4585.0
N 509,000
N 507,500
N 506,000
N 504,500
N 503,000
N 501,500
N 500,000
14°30'
N
S
EXPLANATION
Jmbb Brushy Basin member Morrison fm.
Jmsw Salt Wash member Morrison fm.
Ore hole, at least 1-ft. of 0.20% U_3O_8 or the equivalent in feet-percent
Mineralized hole, less than foregoing
Barren hole
RR-1 Existing drill hole
A-2 Proposed drill hole
Area lost by conflict
Claim Map
SAN RAFAEL REEF AREA
GREEN RIVER DESERT
Emery County, Utah
Uranium Prospectors Co., Ltd., Grand Junction, Colorado
December 1954
SCALE IN FEET
0 300 600 900 1200 1500 1800

MINING CLAIMS
SAN RAFAEL REEF AREA
GREEN RIVER, UTAH



PREPARED FOR
Mr. DAVID A. ROWLAND
9300 W 32nd AVENUE
DENVER 4, COLORADO
BY
TODD & TODD SURVEYING CO
SEPTEMBER 2, 1954

See Region III memo. Filed Jan. 7, 1963
J. Murphy


495000 E
495500 E
496000 E
496500 E
497000 E
497500 E
506500 N
506000 N
505500 N
JERRY BOY 2.
DEDE I.
RED BONE 9.
LITTLE LIL
JERRY BOY I.
SIMON J. I.
SIMON J. 2.
VANURA
VANURA 4.
VANURA 8.
DEDE 5.
AEC-F
SD-G
SD-C
SD-F
SD-B
AEC-SET UP
TP-MR
Area A.
Area B.
Area C.
- Radium Hill
60, 55, 75 mined by Radium Hill - 178 tons
Area A - 18,865 sq. ft 76.02 %
Area B - 4,000 " " 16.12
Area C - 1,950 " " 7.86
24,815 " " 100.00 %
DMER-3620 File

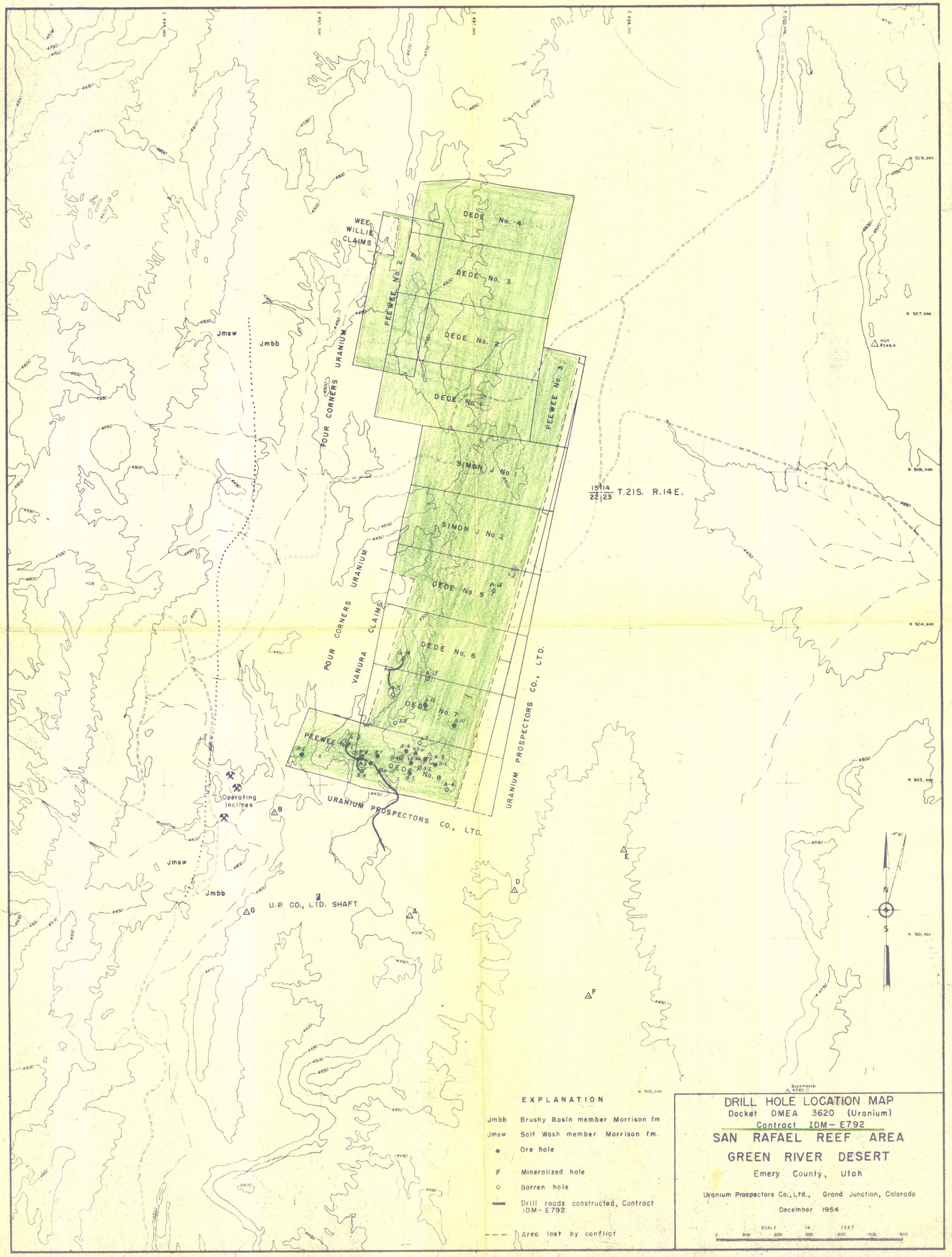
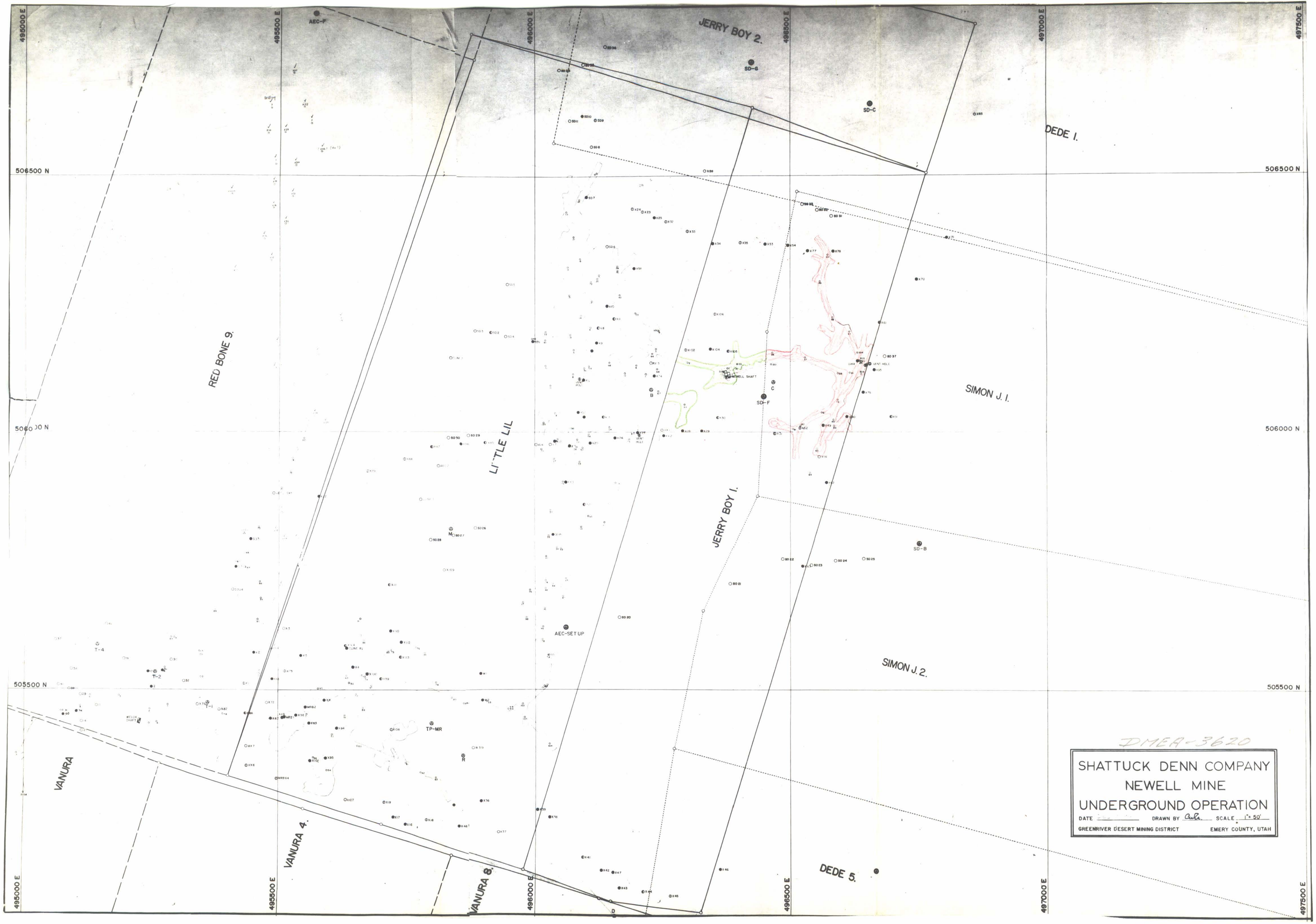

WEE WILLIE CLAIMS
DEDE No. 4
DEDE No. 3
DEDE No. 2
DEDE No. 1
PEEWEE No. 2
PEEWEE No. 3
SIMON J No. 1
SIMON J No. 2
DEDE No. 5
DEDE No. 6
DEDE No. 7
DEDE No. 8
PEEWEE No. 1
FOUR CORNERS URANIUM
FOUR CORNERS URANIUM CLAIMS
VANURA
URANIUM PROSPECTORS CO., LTD.
URANIUM PROSPECTORS CO., LTD.
15 14
22 23
T.21S. R.14E.
Jmsw
Jmbb
Operating Inclines
U.P. CO., LTD. SHAFT
N 509,000
N 507,000
N 506,000
N 504,000
N 503,000
N 501,000
N 500,000
HD5 4549.4
HD8
Buckmaster 4585.0
N
S
EXPLANATION
Jmbb Brushy Basin member Morrison fm
Jmsw Salt Wash member Morrison fm.
Ore hole
Mineralized hole
Barren hole
Drill roads constructed, Contract IDM-E792
Area lost by conflict
DRILL HOLE LOCATION MAP
Docket DMEA 3620 (Uranium)
Contract IDM-E792
SAN RAFAEL REEF AREA
GREEN RIVER DESERT
Emery County, Utah
Uranium Prospectors Co., Ltd., Grand Junction, Colorado
December 1954
SCALE IN FEET
0 300 600 900 1200 1500 1800

Figure 2


495000 E
495500 E
496000 E
496500 E
497000 E
497500 E
506500 N
506000 N
505500 N
JERRY BOY 2.
DEDE 1.
RED BONE 9.
LITTLE LIL
JERRY BOY 1.
SIMON J. 1.
SIMON J. 2.
VANURA
VANURA 4.
VANURA 8.
DEDE 5.
AEC-F
SD-G
SD-C
SD-F
SD-B
AEC-SET UP
TP-MR
T-4
T-2
T-1
WELL SHAFT
VENT HOLE
DMEA-3620
SHATTUCK DENN COMPANY
NEWELL MINE
UNDERGROUND OPERATION
DATE
DRAWN BY
SCALE 1" = 50'
GREENRIVER DESERT MINING DISTRICT
EMERY COUNTY, UTAH