Hole No.	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
1900-2200 F-9	29-13-9	6786	1	2	0	7/19/56	TN

Geology | Probe | Scaler

Hannum, rig, 11

Footage	Formation	Type of Rock	Color	Description	Cataclastic Features	Geiger	Ticker	Surfaces	Depth	Scale Reading	Interval Foot	Assay	Graphic Log	Description
0	Qal / Jb	s.s.	brnrgy	Fn-mgr.										Qal / Jb
20														
40														
60														
80														
100														
120		s.s.	brn.	Fn-med grain, wet										
140	Jb ? Js	sh.	red-brn.	aren, calc., streaks green sh & wet brn. s.s.										Jb ? Js
160														
180														
200														
220														
240														
260														

Dotted line Graphic Assay
Solid Line - Probe
0% 20% 60

Dwg No. 1012

Hole No 1900-2200
Section 29-13-9

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1900-2200 F-9	29-13-9	6786	2 of 2	0	7/19/56	TN

Geology — Hannum, rig 11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Scale	Scaler Interval Footage	Assay	Graphic log	Description
260								THB	.008	m½				
								290.0	.008					
								291.3	.020					
								292.0	.028					
								292.5	.040					
								293.0	.050					
								293.5	.080					
280		ss	brn.	wet				294.0	.070					
								294.5	.060					
								295.0	.050					
								295.5	.025					
								296.0	.040					
								297.0	.060					
	Js							298.0	.240				Js	
								298.5	.250					
300	Jt	LS	gr.	very calc.				299.0	.280				Jt	
								299.5	.100					
								300.0	.045					
								301.0	.020					
								307.0	.020					
		LS.	lt-med gy	aren, argill., slightly re-mineralized				307.5	.035					
		LS.	lt-drk gy	argill., 20% re-mineralized, calc. stals, massive, gr. sh.				308.0	.050					
320								308.5	.100					
								309.0	.250					
		LS	med gy	slightly re-mineralized, calc. stals, massive, pure.				309.5	.180					
	Jt	LS.	lt gy	20% re-mineralized, calc stals, thin bed, aren.				310.0	.150				Jt	
	Je	SS.	red	fn-med gr.				310.5	.300					
								311.0	.440				Je	
								311.5	.130					
								312.0	.020					
								313.0	.006					
340	TD 335												TD 335	
								315.5	.006					
								316.0	.022					
								317.0	.055					
								317.5	.200					
								318.0	.300					
								318.5	.120					
								319.0	.080					
								319.5	.080					
								320.0	.160					
								320.5	.160					
								321.0	.040					
								322.5	.060					
								323.0	.006					
								335.0	.006	m½				

Dotted line Graphic Assay Solid Line - Probe

0% .20% .60

Mineralization — 2' wet Samples

Hole No. 1900-2200

Sec. 29-13-9

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2500-2200 F-12	29-13-9	6800	1 3	1	7/19/56	TN

Footage	Formation	Type of Rock	Color	Description (Taylor, rig 7)	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	Qal / Jb	ss.	brn.	fn-med gr.							351-352 .043 352-353 .316 353-354 .208			Out Jb
20														
40														
60														
80														
100														
120														
140		ss.	red.	fn-med gr.										
160	Jb	ss.	wh.	fn-med gr., moist										Jb
	? Js	Sh.	red-brn.	aren., calc., streaks gr. sh. & wet brn. ss.										Js
180														
200														
220														
240														
260														

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Hole No 2500-2200
Section 29-13-9

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2500-2200 F-12	29-13-9	6810	2 3	1	7/19/56	TN

Geology: Footage | Formation | Type of Rock | Color | Description (Taylor, rig 7) | Diagnostic Features | Geiger | Samples Taken

Probe: Depth | Reading | Scale

Scaler: Foot Interval | Assay

Graphic log | Description | Dotted line Graphic Assay Solid Line - Probe (0% .20% .60)

Depth	Reading
THB	.008
334.0	.008
337.0	.020
337.5	.027
338.0	.030
339.0	.040
340.0	.046
341.0	.045
342.0	.040
342.5	.180
343.0	.200
343.5	.120
344.0	.100
345.0	.015
346.0	.045
347.0	.045
348.0	.045
348.5	.080
349.0	.180
349.5	.210
350.0	.270
350.5	.380
351.0	2.90
351.5	3.30
352.0	5.50
352.5	2.70
353.0	1.20
353.5	1.00
354.0	.50
354.5	.30
355.0	.08
355.5	.080
361.0	.010
363.0	.026
364.0	.018
365.0	.008

Footage: 260, 280 20, 300 40, 320 60, 340 80, 360 00, 380 20

Formation: Js, Jt, Je, TD 380

Type of Rock: Sh. red-brn; Sh. gr.; L.S. lt-med gy. See inset for detailed log; S.S. red fn-med. gr.

Color: Taylor, rig 7

Description: Js; Jt; Jt; Je; TD 380

Graphic log: Js; Jt; Jt; Je; TD 380

Dotted line Graphic Assay Solid Line - Probe: 0% .20% .60; 260, 280 20, 300 40, 320 60, 340 80, 360 00, 380 120, 140, 160, 180, 200, 220, 240, 260

Hole No. 2500-2200

Section 29-13-9

Dwg No. 612

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Moore 9/9/86

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2500-2200 F-12	29-13-9	3 3	7/19/56	TN

Footage From	Footage To	Formation	Geology: Description	Samples
			Taylor, rig 7	
340.0	34	Jt	L.S., lt. grey, slightly re-xxalized, few calc. xtals, zones of calc xtals. Fracs (vert, healed) filled	
	344.8		with limonite (?)	
344.8	347.2	Jt	L.S., med grey, crennulated, argill.	
347.2	351.7	Jt	S.S., lt grey, calc, argill (green),	
351.7	354.0	Jt	L.S., dark grey, aren, 20% re-xxalized, calc. xtals, flourite (?) xtals.	
354.0	355.6	~~Jt~~	CORE LOST	
355.6	355.8	Jt	S.S., lt grey, fn-med gr.	
355.8	356.1	Jt	L.S., 40% re-xxalized, calc. xtals.	
356.1	359.7	Jt	L.S., med grey, crennulated, argill.	
359.7	363.6	Jt	L.S., dark grey, thinbedded with interbedded blk shales, aren.	
363.6	364.0	Jt	L.S., white, 100% re-xxalized, calc, Lattice struc.	
364.0	368.2	Jt	L.S., dark grey, thinbedded with interbedded shales, aren.	
368.2	368.3	Jt	L.S., white, 100% re-xxalized, calc, Lattice struc.	
368.3	372.2	Jt	L.S., med-dark grey, thinbedded, argill, aren.	
372.2	373.8	Je	S.S., white to purple, fn-med gr.	
373.8	378.5	Je	S.S., white to yellow, fn-med gr.	
378.5	380.0	Je	S.S., red, fn-med gr.	

Drawing No. 793

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Hole No.	Sec	Elevation	Page of Pages	No Insets	Date	Logged by
1400' - 2050'	29	8752	1 of 3	1	11-17-55	W. Hiatt

Geology

Rig #10 1400' - 2050'
Driller: LL Hunt

Footage	Formation	Type of Rock	Color	Description	Features	Diagnostic	Gamma	Samples Taken
0								
20	Qt		lt brn	Blow sand				
40								
60								
80								
100								
120	Js	silt		dk red-brn, lt brn, lt gy siltstone very tiny reaction to acid very arenaceous, few streaks of lt gy siltstone, the sandstone encountered was fn grained well rounded				
140								
160								
180								
200								
220								
240	Tt			Coring started at 256' ended at 266'				
260	Tt							

Probe

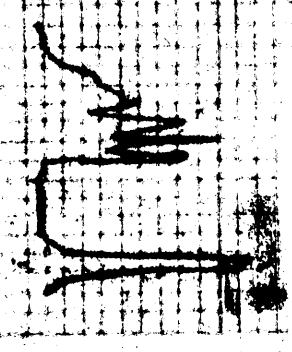
Depth	Reading	Scale
calibrated		
	25	II
	90	II
TH BG	2	II
	3	
228	4	II
229	6	
230	6	
231	8	
232	12	
233	22	
234	24	
235	30	
236	36	
237	20	
238	42	
238.5	50	II
239.0	58	
239.5	28	
240	60	II
240.5	34	
241.0	26	
241.5	50	
242.0	18	
242.5	6	
243.0	6	
244	4	
	4	
252	14	
252.5	54	
253.0	78	
253.5	74	
254.0	42	
258.5	20	
255.0	10	
256.0	6	
264.8	4	
Probe to 266'		

Scaler

Interval Foot	Assay

Graphic log

Description	Dotted line Graphic Assay Solid Line - Probe
	0% 20% 60



Drawing No. 792

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Hole No.	Sec.	Elevation	Page	of	Pages	No Insets	Date	Logged by
V400N 2050E	29		2		3	1	11-17-55	W. Hiatt

Depth	Formation	Type of Rock	Color	Description	Sample Number	Sample Depth	Core Number	Core Depth	Probe Reading	Probe Scale	Scaler Interval	Scaler Assay	Graphic Log	Description	Dotted line - Graphic Assay Solid Line - Probe (0% – 20% – 60)
26	Je														
	Bot			Hole bottomed 267 in Je											
260															
300															
60															
340															
380															
420															
460															

0 20 40 60 80 100 120 140 160 180 200 220 240 260

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1400N 2050E	29	3 3	11-17-55	W. Hiatt

Footage From	Footage To	Formation	Geology: Core. Description	Samples
236	239.7		massive arenaceous lt-dk gy ls, some dk red-brn inclusions of siltstone. fracture planes are stained dk red-brn	
239.7	248.7		dk gy ls with alternating lt gy & dk gray seams (varved?) arenaceous	
248.7	249.2		dk gy ls, wavy undulating bedding planes	
249.2	249.8		dk gy ls, horizontal - low angle bedding planes, some alternated dk & lt gy seams	
249.8			contact	
249.8	250.1		variegated red & gy ss very limy variegations run vertical very fn grain	
250.1	254		dk gy ls 50-50 ss, few horizontal fracture planes. calcite cemented	
254	254.5		dk red-brn fn grain ss very limy	
254.5	256		lt gy-gr 50 & red brn ss. dk green stains on fracture planes, sand grains are subangular - rounded fn grain qtz very limy mottled	
256	257.7		lt gy ss fn gr ss qtz mottled with red	
257.7	266		dk red-brn fn grain ss qtz mottled with gray	

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W. M. Fraser
Memo 9/7/56

Hole No	Sec	Elevation	Page of Pages	No Insets	Date	Logged by
1597-2600	29-13-9	6753	1 / 3	1	6/23/56	TCTN

Geology — Taylor, rig 7

Footage	Contacts	Lithology	Color	Description	Fractures	Occurrence	Geiger	Gamma	Samples
0	Qal / Jb	ss	lt gry-brn	Fn-med gr.					
20									
40									
60									
80									
100									
120		s.s.	brn.	Fn-med gr, moist at base					
140									
160	Jb ? / Js	Sh.	red-brn	calc., aren., streaks gr. sh. & moist brn. s.s.					
180									
200									
220		s.s.	brn.	Fn.-med. gr.					
240									
260	Js / Jt	Sh. / LS	green.	Cored, see inset sheet for detail log.					

Probe

Depth	Reading	Scale
THB 0	6	V
		V
254	6	V
255.8	14	
257.1	18	
259.5	10	
260.7	28	
262.0	20	
263.6	32	
264.9	18	
265.4	10	
266.0	25	
266.6	50	V
267.2	32	IV
267.5	60	IV
267.8	38	III
268.2	52	
268.5	25	
268.9	45	IV
269.5	22	III
271.0	20	
272.2	10	
275.8	22	
276.4	45	IV
276.7	30	III
277.0	60	III
277.9	30	III
278.2	50	
279.0	20	
279.7	35	
280.1	50	
281.0	45	III
281.5	24	IV
282.3	22	IV
282.8	20	V
283.4	12	
293.0	12	V
301	6	V

Scaler

Interval Foot	Assay
277.9-278	0.008
279-280	.022
280-281	.063
281-	
268-269	.033
270-271	.018
282-283	.072
286-287	.005
211-212	.012
chert	chert
283.65	
284.40	0.80
284.40	
285	0.40
285-286	.101
283-	
283.65	.306
269-270	.481

Graphic log / Description

Dotted line Graphic Assay
Solid Line - Probe
0% 20% 60

Qal / Jb

Jb ? / Js

Js / Jt

Hole No. _____
Section _____

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1597 - 2600	29-13-9	6753	2 3	1	6/23/56	TCTN

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Assay	Graphic log	Description	Dotted line Graphic Assay Solid Line - Probe 0% 20% 60
260 0		ls.	gy	see inset for core log											
280 20						mineralization	cont'd								
	Jt Je												Jt Je		
300 40	Jp 301												Jp 301		
320 60															
80															
00															
20															
0															
60															
80															
00															
20															
40															
60															

155 160 180 200 220 240 260

Dwg No. 1792 Hole No. Sec. from

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1597-2600	29-13-9	3 / 3	6/23/56	TCTN

Footage From	Footage To	Formation	Geology: Description	Samples
256	256.8	Jt	L.S., lt gray, very argill., 40% re-xxalized, healed vert. Fracs.	
256.8	260.7	Jt	Sh., lt green, calc, aren.	
260.7	262.4	Jt	S.S., lt gray-white, Fn-grained, calc., aren.	
262.4	262.8	Jt	L.S., med. gray, 20% re-xxallized, argill, calc. xtals, healed horiz. Fracs. carbon mat. along Frac. zones.	
262.8	263.6	Jt	L.S., lt gray, 40% re-xxalized, calc. xtals, shear zone (?)	
263.6	265.8	Jt	L.S., lt-med gray, calc. xtals, carbon (?) mat along healed horiz. Fracs.	
265.8	266.2	Jt	L.S., aren, argill., purplish-gray.	
266.2	268.4	Jt	L.S., med-drk gray, calc. xtals, limon (?) stains on vert. Frac. zones, horiz. Fracs., slightly crennulated	
268.4	268.9	Jt	L.S., lt gray, 20% re-xxalized, calc. xtals, aren.	
268.9	269.8	Jt	L.S., lt-med gray, calc. xtals, pyritic, pockets of black carbonaceous mat., argill.	
269.8	271.5	Jt	Siltstone, mottled wh & purple	
271.5	274.0	Jt	S.S., lt-gray, Fn-med grain, calc.	
274.0	276.1	Jt	L.S., med gray, thin bedded, interbedded lenses brn shaly mat., crennulated	
276.1	277.2	Jt	L.S., med gray, zones of pure calc. xtals.	
277.2	277.4	Jt	L.S., lt gray-brn, thin bedded, interbedded with brn-red sh. mat.	
277.4	277.8	Jt	L.S., lt-med. gray, aren., argill.	
277.8	280.3	Jt	L.S., alternating zones of lt-med gray L.S. with shaly mat.	
280.3	280.5	Jt	L.S., 100% re-xxalized, calc. xtals, white, shear zone (?)	
280.5	283.6	Jt	L.S., alternating zones of med gray, pure L.S. and interbedded sh. mat.	
283.6	284.5	Jt	L.S., lt-med gray, calc. xxtals on healed vert. Frac., pure.	
284.5	285.7	Jt	L.S., med-drk. gray, crennulated	
285.7	286.0	Jt	L.S., lt gray-red, very aren.	
286.0	293.0	Jt	L.S., med. gray, zones (thin) shaly mat.	
293.0	297.5	Jc	S.S. Fn-med gr., grennish-white, calc.	
297.5	301	Jc	S.S., red-brn, Fn-med gr.	

Drawing No. 793

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2900-2200 F-14	29-13-9	6830'	1 / 3	1	7/17/56	J.A.R.

Taylor Rig #7

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Scaler Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	QAL			Blowsand										QAL
	JB	ss.	gray,	f-m. grain., calcar.										
20														
40														
60														
80														
100														
120														
140														
160				ss. white f-m. grain.										
180	JB? / JS	Sh.	red										JB? / JS?	
200														
220														
240														
260														

Dotted line Graphic Assay
Solid Line - Probe
0% 20% 60

Hole No 2900-2200
Section 29-13-9

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memo 9/7/56

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2900-2200 F-14	29 13-9	6830'	2 of 3	1	7/16/56	J.A.R.

Geology — Taylor Rig #7

Footage	Formation	Type of Rock	Color	Description	Features	Geologic Structure	Gamma	Sample Interval	Probe Counter	Probe Reading	Probe Scale	Scaler Interval Foot	Scaler Assay	Graphic Log	Observation
240	Js	sh.	red					Scalar	THB 0 ↓ 361	10	5	363-364	0.081		
												369-370	0.017		Js
												370-371	0.030		
										NO COUNT		371-372	.110		
												Chemical ↓			
												374-75	0.152		
												375-76	0.085		
												376-377	0.118		
280									362	10	5	377-378	0.015		
								.081	363	10	5	378-379	0.143		
									364	20	5	379-380	0.484		
									365	20	5	380-381	0.721		
									366	35	4	381-382	0.826		
									367	30	3	382-383	Core		
									368	28	3	383-384	1.132		
								.017	369	60	5	384-385	.624		
300								.030	370	35	5	385-386	.163		
								.110	371	50	5	386-387	.048		
									372	60	4	387-388	.022		
									373	60	3				
								.122	374	55	3				
								.074	375	55	4				
								.102	376	60	4				
								.023	377	60	4				
								.125	378	35	3				
320								.394	379	36	2				
								.598	380	50	2				
								.726	381	20	2				
								Last core	382	42	2				
								.909	383	42	3				
								.592	384	40	3				
								.127	385	30	4				
								.045	386	35	5				
								.018	387	35	5				
									388	10	5				
									↓ 408	NO COUNT					
360		sh.	green												
		sh. & s.	green-gray												
380	Js / Jt	ls.	mdh. gray												Js / Jt
				(see inset for detailed log)											
400								High count & blind on this core							
	Jt / JE	ss	red-purple, f-m grain												Jt / JE
420	TD 412'														TD 412'

Dotted line — Graphic Assay; Solid Line — Probe (0% … 20% … 60)

Log No. 1002

Hole No. 2900-2200

Section 29-13-7

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2900 - 2200 F-14	29 13-9	3 3	7/16/56	JAR

Footage From	Footage To	Formation	Geology — Description	Samples
			Taylor Rig #7	
362	362.5	Js	Mudstone sh., green, aren, calcar	
362.5	362.9	Jr	Ls, m-gray, argill.	
362.9	364.6	Js	Sh ss. gray-green,	
364.6	365	Js	Ls., m-gray, aren.,	
365	370.5	Js	Sh., green, crumbly, calcar.	
365	367	Js	2' lost (very friable shale)	
370.5	372	Js	Sh, green, calcar, crumbly	
372	373.8		Missing core loss assumed to be green shale	
374	375.5	Js	ss. l. gray-green, f-m grain, streaks of black min. (uraninite ?)	
375.5	375.7	Js	Ls, m-dk. gray, argill., aren,	
375.7	379	Js	Sh, green, v. calcar, streaks of lime, red-black uranium min. (gummite & uraninite ?)	
379	382	Jr	Ls. m-dk. gray, 90% re-xtallized, small black specks (uraninite), highly fract. uraninite & calcite sealing fract.	
	384	Jr	abundant carnotite in fract.	
	390	Jr	stylolite containing uraninite	
390	392		core lost ?	
392	394	Jr	Ls, m-dk. gray, v. thin brown bedded, v. argell., slight re-xtallization	
394	397	Jr	Ls, dk. gray-brown, slight re-xtallization, thin reg. bedding, v. argill.	
397	410	Jr	Ls, gray-brown, slight re-xtallized, thick bedded, argill.	
410	412	Je	ss, red-purple, f-m. grain, calcar.	

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Dr. M. Jensen
Memo 9/7/56

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Hole No	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
1500-2050	29-13-9	6753	2	3	1	9/17/56	J.A.R.

Geology

Hannum Rio #11

Description

Probe Reading

Scaler Interval

Assay

Graphic Log

Dotted line graphic Assay and Fire-Probe

0% 20% 60

Depth	Formation	Symbol	Description
260	Jt	Ls.	m-dk. gy, 20% re-xtall.
	Jt	Ls.	m-crn-gy, 80% re-xtall,
			m gy, v. aren.
	Jt / JE	Ls. / SS	purple-gy, f. grain, calcar.
280			
300			
320			
340			
360			
380			
400			
420			
440			
460			
480			
500			
520			
540			
560			

TD 280

21' cutting samples

Probe Reading		
T.H.B.	1.5	.01
	no count	
245	3.0	.01
246	7.0	.01
247	6.5	.01
248	9.5	.01
249	3.5	.01
250	1.5	.01
251	1.0	.01

Graphic Log: Jt, Jt, JE

TD 280

Hole No 1500-2050

Sec 29-13-9

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Hole No.	Sec.	Page of Pages	Date	Logged by
1500-2050	29-13-9	3 3	9/17/56	J.F.R.

Footage From	Footage To	Formation	Geology: Description	Samples
			Hannum Rig #11	
254	257.7	Jt	Ls, m. gray, 10-30% re-xtall, v. fract., fract. filled with red min., thin lenses of brown Sh & red min., aren.	
257.7	257.8	Jt	calcite, lattice struct.	
257.8		Jt	Ls, m-dk. gray, 10-20% re-xtall, streaks of brown Shale, aren.	

Drawing No. 793

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Th. M. Stevens
Minutes 10/24/56

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3300-2000	29-13-9	6836	1 3	1	9/24/56	J.A.R.

Footage	Formation	Type of Rock	Color	Geology: Taylor Rig #7 Description	Diagnostic Features	Geiger	Samples Taken	Probe: Depth	Probe: Reading	Probe: Scale	Scaler: Foot Interval	Scaler: Assay	Graphic log	Description	Dotted line Graphic Assay Solid Line - Probe (0% .20% .60)
0	QAL	Blowsand												QAL	
20															
40	QAL / JB	SS	lt-gy-brn	f. grain										QAL / JB	
60															
80															
100															
120															
140															
160	Ja? / Js?	Sh	red											Ja? / Js?	
180															
200															
220															
240															
260															

Dwg No. 192

Hole No. 3300-2000
Section 29-13-9

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3300 - 2000	29-13-9	6836	2 3	1	9/24/56	J. A. R.

Geology: Footage | Formation | Type of Rock | Color | Description (Taylor Ring #7) | Diagnostic Features | Geiger | Samples Taken

Probe: Depth | Reading | Scale

Scaler: Foot Interval | Assay

Graphic log | Description | Dotted line Graphic Assay Solid Line - Probe (0% .20% .60)

Depth	Reading	Scale
T.H.B.	1.0	.01
	No count	
405	3.0	.01
406	4.5	.01
407	5.0	.01
408	8.5	.01
409	5.5	.01
410	7.0	.01
411	7.5	.01
412	6.0	.01
413	6.0	.01
	No count	
438		

Footage: 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460

Scaler: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260

Formation / Type of Rock / Description:

- Js — Sh — red
- Sh — green
- Js / Jt — Ls. — see insert for detailed log
- Ls. — m-dk. brn. - gy. 30-40% ore - wall
- Jt — Ls. — m gy-brn. 20% ore - wall, v. brn.
- Jt — SS. — Pink-l. gy, f grain, calcar.
- T.D. — 445

Graphic log: Core; 2" cutting sampler; Js / Jt; Jt / Jt; TD 445'

Hole No. 3300-2000
29-13-9

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Hole No.	Sec.	Page of Pages	Date	Logged by
3300-2000	27-5-7	3	?	J. A. K.

Footage From	Footage To	Formation	Geology: Taylor Rig #7 — Description	Samples
408	409	Jt	Ls, m. gray, 50-70% re-xtall, many thin lenses of black shale dipping at ≈40°, s. aren.	
409	417.7	Jt	Ls, ss, & sh interbedded, Ls, m-dk. gray, 50% re-xtall aren; sh. green, calcar; ss. l. gray,	
			f. grain, calcar., steeply dipping beds.	
417.7	418.2	Jt	Ls, dk. gray, 80% re-xtall, steeply dipping beds.	
418.2	420	Jt	Ls, m.-dk. gray, 40% re-xtall, lenses of sandstone, stringers of black shale	
			appears to be very fractured.	
420	424	Jt	Ls., m-dk. gray, 30-40% re-xtall, cren. bedding, steeply dipping beds, thin stringers of	
			black shale.	
424	428	Jt	Ls., dk-m. gray, 20-50% re-xtall, steeply-dipping beds streaks of brown sh, steeply-	
			dipping fractures filled with calcite, streaks of red material (iron?)	

Drawing No. 793

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Hole No.	Sec.	Elevation	Page of	Pages	No. Insets	Date	Logged by
1900-2300	29-13-9	6781'	1	3	1	9/11/56	JAR

Geology

Hannum Rig #11

Footage | Formation | Type of Rock | Color | Description | Diagnostic Features | Geiger | Fever | Sample | Probe Depth | Reading | Scale | Scaler Interval Foot | Assay | Graphic log | Description

Dotted line Graphic Assay
Solid Line - Probe

0% 20% 60

0 — JB, SS. — Blowsand, lgt. — f. grain, hard

20

40

60

80 — SS. brn. — f. grain, wet

100 — JB? / JS? — Sh & sand. — red

120

140

160 — Sh & SS., shred; SS., brn., wet

180

200

220

240

260

JB? / JS?

Hole No. 1900-2300
Section 29-13-9

Hole No.	Sec.	Elevation	Page of	Pages	No. Insets	Date	Logged by
1900-2300	29-13-9	6781'	2	3	1	9/11/56	JAR.

Geology — Hannum Rig #11

Footage | Formation | Type of Rock | Color | Description | Diagnostic Features | Geiger | Samples Taken

Footage	Formation	Type of Rock	Color	Description
260	Js	ss	red	
		ss.	brn.	f. grained
280				
		sh.	green	
300				
	Js / Jt	Ls.		(See inset for detailed log)
320		Ls.	m-dk. gy.	20-30 % re-xtall., some brn. sh., calcitic
		Ls.	m. brn-gy.,	much brn. sh., 20% re-xtall., aren., calcitic
	Jt / Je	Ls.	m. gy.,	10% re-xtall., aren. calcitic
		ss.	lt. gy-red,	f. grain, calcar.
340	335'			
360				
380				
140				
160				
180				
200				
220				
240				
260				

Samples Taken: core; 2' wet cutting sample

Probe — Geiger Reading / Scale

Depth	Reading	Scale
THB	1.0	.01
	no count	
288	4.0	.01
289	6.0	.01
290	2.0	.1
291	1.0	.1
292	1.0	.1
293	3.5	.1
294	5.5	.1
294.5	5.5	.1
295	6.0	.1
295.5	8.0	.1
296	9.0	.1
296.5	9.0	.1
297	9.0	.1
297.5	7.5	.1
298	8.5	.1
298.5	3.5	1.0
299	3.5	1.0
299.5	3.5	1.0
300	9.0	.1
300.5	5.0	.1
301	5.5	.1
301.5	6.5	.1
302	6.5	.1
302.5	5.5	.1
303	4.0	.1
303.5	3.5	.1
304	1.5	.1
304.5	1.0	.1
305	0.5	.1
306	1.5	.01
307	6.0	.01
	no count	
330.7		

Scaler — Assay Interval Foot

Graphic log — Description

Js; Js / Jt; Jt / Je; TD 335'

Dotted line: Graphic Assay; Solid Line - Probe

0% .20% .60

Hole No. 1900-2300
Sec. 29-13-9

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1900-2300	29-13-9	3 of 3	9/11/56	J.A.R.

Hannum Rig #11

Footage From	Footage To	Formation	Geology: Description	Samples
303	307.7	JT	Ls. & shale (interbd.) Ls., m-dk. gray, 20-50% re-xtall, aren, argill, calcitic, sh, green, calcar.	
307.7	308.1	JT	Ls, m-dk. gray, 20-100% re-xtall, v. calcitic, v. aren., some pink material, iron stains, a few spots of yellow min. (carnotite?)	
308.1	310	JT	Ls, dk. gray, 20-80% re-xtall, argill, s. aren., crenulated bedding in bottom 6", thin layers of black shale in bottom 6"	
310	310.2		core lost	
310.2	312.2	JT	Ls, m. gray, 80% re-xtall, [redacted] aren., thin streaks of black shale,	
312.2	316	JT	Ls, m. gray, 70% re-xtall, aren., vert. layers of red material, highly fractured, fractures are vertical.	

Drawing No. 793

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Hole No	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
2800-2200	29-13-9	6825'	1	3	1	9/5/56	J.A.R.

Geology

Taylor Rig #7

Description

Probe — Scaler

Dotted line Graphic Assay
Solid line - Probe

0% 20% 60

Depth	Formation	Description	Code	Ge Cer	Scale Reading	Interval	Assay %	Graphic Log	Description
0	QAL	Blowsand						QAL	
20	QAL / JB	ss. l.gy, streaks of brn ss., f. grain						QAL / JB	
80	JB? / Js?	sh red						JB? / Js?	

Hole No 2800-2200
Section 29-13-9

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2800-2200	29-13-9	6825'	2 3	1	9/5/56	JAR

Geology — Taylor Rig #7

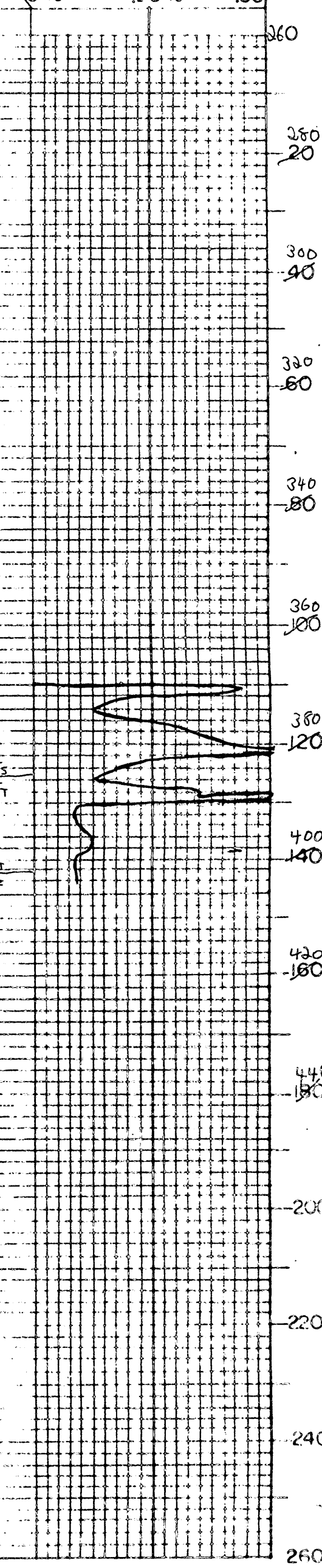
Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken
260	Js	sh	red				
280 / 20							
300 / 40							
320 / 60							
340 / 80							
360 / 100			sh green	SS & LS. l-m. gy. f. grain			
380 / 120	Js / JT			LS m-dk gy. (See Inset for detailed log.)			
400	JT / JE			SS layered, f. grain			
420 / 160	TD 410'						
440 / 180							
200							
220							
240							
260							

Probe — Scaler

Depth	Reading	Scale
THB	1.5	.01
↓	No Count	
369	6.0	.01
370	4.0	.1
370.5	8.0	.1
371	8.5	.1
371.5	6.0	.1
372	4.5	.1
372.5	3.5	.1
373	2.5	.1
373.5	2.5	.1
374	2.5	.1
374.5	3.0	.1
375	3.5	.1
375.5	3.5	.1
376	4.5	.1
376.5	4.0	.1
377	3.5	.1
377.5	4.5	.1
378	6.5	.1
378.5	7.5	.1
379	8.5	.1
379.5	8.0	.1
380	9.5	.1
380.5	1.4	1.0
381	2.5	1.0
381.5	7.0	.1
382	8.0	.1
382.5	1.6	1.0
383	4.5	1.0
383.5	6.5	.1
384	3.5	.1
384.5	9.5	.1
385	2.0	1.0
385.5	6.0	.1
386	2.5	.1
386.5	1.5	.1
387	2.0	.1
387.5	4.5	.1
388	2.0	.1
388.5	8.0	.1
389	1.5	1.0
389.5	1.3	1.0
390	2.0	.1
390.5	2.0	.1
391	2.5	.1
392	3.0	.1
392.5	5.5	.1
393	2.5	.1
↓	No Count	
403.6		

Graphic log — Description

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60



Dwg No 792

Hole No 2800-2200
Section 29-13-9

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2800-2200	29-13-9	3 of 3	9/5/56	JAR

Taylor Rig #7

Footage From	Footage To	Formation	Geology: Description	Samples
360	361		core lost	
361	363.5	Js	SS, l. greenish-gray, f. grain, v. argill., calcar.	
363.5	369.8	Js	SS, red-brown, mottled with green-gray, f. grain, argill, calcar.	
369.8	375.4	Js	SS, l. greenish-gray, f. grain, v. much green mud, mud layer 2" thick at 273.8 calcar.	
375.4	375.7	Js	Shale, green, calcar.	
375.7	385.2	Js	SS & Ls, SS, l. gray, f. grain, calcar.; Ls, m. gray, 30% re-xtall. Ls occurs as lenses in SS. 1/2-4" thick	
385.2	391.5	JT	Ls, m-dk. gray, 50-100% re-xtall., streaks of black mineral (ore). S. aren., calcitic.	
391.5	402.5	JT	Ls, m-dk. gray, 20-60% re-xtall, thin horizontal layers of brown & black shale, argill, calcitic, steeply dipping fract. filled with calcite, lattice struct. calcite from 395.7 - 395.8, v. aren. in bottom 3'	
402.5	403.7	JE	SS, l. gray, f. grain, v. calcar.	
403.7	404	JE	SS., purple, f. grain, calcar.	
404	407.7	JE	SS, mottled, gray, green, purple, orange, f. grain, calcar.	
407.7	410	JE	SS., red, f. grain, calcar.	

Drawing No. 793

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Moscow 10/24/56

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2500 - 2300	29-13-9	6807	1 3	1	9/13/56	J.A.R.

Geology: Footage | Formation | Type of Rock | Color | Description (Taylor Rig #7) | Diagnostic Features | Geiger | Samples Taken

Probe: Depth | Reading | Scale

Scaler: Foot Interval | Assay

Graphic log | Description

Dotted line Graphic Assay Solid Line - Probe (0% .20% .60)

Footage	Formation	Type of Rock	Color	Description
0	QAL	Blowsand		
	JB	SS. light-buff, f. grain		
140	JB? / Js?	Sh red		

Graphic log: QAL; JB; JB? / Js?

Footage scale: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260

Dwg No 1792

Hole No 2500-2300

Section 29-13-9

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Hole No.	Sec	Elevation	Page of Pages	No. Insets	Date	Logged by
2500-2300	29-13-9	6807	2 of 3	1	9/13/56	J.A.R.

Taylor Rio #7

Geology

Footage	Formation	Type of Rock	Color	Description	Features	Diagnostic	Geiger	Taler	Samples
260	Js	sh	red						
280									
300									
320									
340		ss	grn.	f. grain					
		sh	green						
	Js / Jt	ls		(see inset for detailed log)					
360		ls.	dk-grn. gy, 20% re-xtall., orn.						
	Jt	ls	mi-dk gy, 20% re-xtall., v. orn.						
	Je	ss.	l. gy-red, f. grain, calcar						
380									
400	TD	395'							
420									
440									
460									

Probe

Depth	Reading	Scale
THB.	1.5	.01
↓	no count	
336	2.0	.01
337	5.0	.01
338	7.0	.01
339	7.0	.01
340	6.0	.01
341	1.5	.1
342	2.0	.1
343	2.0	.1
344	1.5	.1
345	6.0	.01
346	9.5	.01
347	6.0	.01
348	8.0	.01
349	5.0	.01
350	4.0	.01
351	2.5	.01
352	2.5	.01
↓	no count	
363	2.5	.01
364	3.0	.1
365	2.5	.1
366	5.0	.1
366.5	1.5	.1
367	3.0	.01
↓	no count	
382.4		

Scaler Assay Foot Interval

core

2' cutting samples

Graphic log

Description

Js

Js / Jt

Jt / Je

TD 395'

Dotted line Graphic Assay
Solid Line - Probe

0% 20% 60

Hole No. 2500-2300
Sec 29-13-9

Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2500-2300	29-13-9	3 3	9/13/56	J.A.R.

Footage From	Footage To	Formation	Geology: Description	Samples
			Taylor Rig #7	
340	340.6		core lost (green Shale)	
340.6	346.5	Js	shale, ss, & Ls, interbedded; shale, green, aren. calcar.; ss. green, f. grain, calcar.	
			Ls, m. gray, 40% re-xtall., aren. argill.	
346.5	350	JT	Ls., m-dk. gray, 30-40% re-xtall., aren., stylolitite appearing veins filled with black material.	
			v. argill.	
350	359	JT	Ls, ss.; Ls. m. gray, 30% re-xtall., v. aren. argill.; ss. l. gray, f. grain, argill.	
359	360	JT	Ls, m-dk. gray, s. aren. 30% re-xtall., crèn bedding	

Drawing No. 793

Dr. M. Jamshed
Mosud 10/24/18

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1850-2400	29-13-9	6778	1 / 3	1	9/20/56	J. A. R.

Geology — Hannum Rig #11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	QAL	Blossom												QAL
	JB	SS.	lgt-brn	f. grain										JB
80		SS.	brn, f. grain, wet											
20	JB?	SS.	wht., f. grain, wet											
	JS?	Sh	red, streaks of wet SS.											JB? JS?
60		Sh	red, dry											

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Footage: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260

Dwg No 192

Hole No. 1850-2400
Section 29-13-9

Hole No.	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
1850-2400	29-13-9	6778	2	3	1	9/20/56	J.A.R.

Geology

Hannum Rig #11

Description

Probe

Dotted line: Graphic Assay Curve - Probe

Depth	Geology	Description
260	Js, sh	red
280	ss.	l. gy, wet
300	sh	green, gren.
320	Js / Jt, ls.	m-dk gy, 50% ore-xtall, some carnotite, tres min. (core)
	Jt / JE, ss.	(see inset for detailed log.)
340	TD 336	

a' cutting samples

core

Probe		
T.H.B.	1.5	.01
	NO COUNT	
304	3.5	.01
305	0.5	.1
306	4.0	.1
307	1.5	.01
308	3.5	.01
309	2.0	.1
310	2.5	.1
311	3.0	.1
312	4.5	.1
313	1.5	.1
314	5.5	.1
314.5	7.0	.1
315	6.5	.1
315.5	6.0	.1
316	6.5	.1
316.5	7.5	.1
317	2.5	1.0
317.5	2.5	1.0
318	5.0	.1
318.5	2.0	.1
319	3.0	.1
319.5	5.5	.1
320	7.0	.1
320.5	1.5	1.0
321	1.5	1.0
321.5	1.0	.1
322	3.0	.01
332.5	NO COUNT	

Js, Jt, Jt, JE, TD 336'

Hole No. 1850-2400

Section 29-13-9

Dwg No 192

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Mr. Mr. Shumard
Mr. Mr. Shumard 10/27/86

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Hole No.	Sec.	Page of Pages	Date	Logged by
1850-2400	27-13-9	3 of 3	9/20/56	J.A.R.

Hannum Rig #11

Footage From	Footage To	Formation	Geology Description	Samples
316	318.3	JT	Ls, m-dk gray, 40-80% re-xtall, fract. fill w/ with calcite & black ore, mesh red material in fract. &	
			bedding planes dispersed through line, Some carnotite in fract. & spots	
318.3	320	JT	Ls, dk gray, 20-40% re-xtall, streaks of black shale & ore?, iron stains.	
320	320.4	JT	Ls, l-m. gray, 80-100% re-xtall, white, yellow & black calcite, streaks of red	
320.4	324.1	JT	Ls, m-dk gray, 20-70% re-xtall, vert. fract, streaks of black ore	
324.1	324.2	JT	Calcite, lattice struct.	
324.2	326.1	JT	Ls, m-dk gray, thin lenses of brown shale, aren.	
326.1	327.8	JT	Ls, l. gray, v. aren	
327.8	327.9	JE	SS. purple, f. grain, calcar.	
327.9	334.3	JE	Ls, l. gy, purple, green & orange, f. grain, calcar.	
334.3		JE	Ls, red, f. grain, calcar.	

Drawing No. 793

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Mewar 10/27/86

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logger
2200 - 2300	29-13-4	6021	1 3	1	9/24/56	[illegible]

Footage	Formation	Type of Rock	Color	Geology: Hannum Rig #11 Description	Diagnostic Features	Geiger	Samples Taken	Probe: Depth	Probe: Reading	Probe: Scale	Scaler: Foot Interval	Scaler: Assay	Graphic log	Description	Dotted line - Graphic Assay; Solid Line - Pro 0% 20%
0	Q_{AL}	Blown sand												Q_{AL}	
20	Q_{AL} / J_B			ss: l. gy-brn, f. grain										Q_{AL} / J_B	
40															
60															
80															
100															
120				ss: l. gy-brn, wet, f. grain											
140															
160															

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OCT 26 1955

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2260 - 2300	7?-9	6821	2 3	1	9/24/56	J.A.R.

Hannum Rig #11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
260	Js	sh	red, streaks of ss.					THB	1.5	.01				Js
									No Count					
								372	2.0	.01				
								373	3.0	.1				
								374	5.5	.1				
								374.5	1.5	1.0				
								375	2.0	1.0				
								375.5	4.0	1.0				
								376	3.5	1.0				
								376.5	2.5	1.0				
								377	3.0	1.0				
								377.5	1.5	1.0				
								378	1.5	1.0				
								378.5	3.0	.1				
								379	8.0	.01				
								380	1.0	.1				
								381	6.0	.1				
								381.5	9.5	.1				
								382	5.0	.1				
								382.5	1.5	.1				
								383	6.0	.01				
								384	8.0	.01				
								385	5.0	.01				
									No Count					
								389	1.5	.1				
								390	1.5	.1				
								391	3.0	.01				
								393	9.5	.01				
								394	5.0	.1				
								394.5	5.5	.1				
								395	4.0	.01				
									No Count					
								398						
				Sh. green, green.										
	Js			Ss. (stringer)										
				(see inset for detailed log)										
	Js			ss. purplish grain										
	TD 401													

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Drawing No 792

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2700-2300	29-13-9	3 3	9/24/56	J.A.R.

Hannum Rig #11

Footage From	Footage To	Formation	Geology: Description	Samples
376	380	Js	Ls, ss, ash interbedded; Ls, m. gray, 80-100% re-xtall., small spots of black & red material (core); ss, l. gray, f. grain, calcar.; sh., green, calcar.	
380	384.4	JT	Ls, m.-dk. gray, 10-90% re-xtall., s. aren., streaks of black ore,	
384.4	385.2	JT	Ls, dk-m. gray, 10-30% re-xtall., cren. bedding, streaks of black sh.,	
385.2	387.7	JT	Ls, m. gray, 70-100% re-xtall., steeply dipping fract. filled with white & black calcite & ore. few streaks of l. gray ss., few layers of shale.	
387.7	400.5	JT	Ls, m-dk. gray, 10-50% re-xtall., many streaks of brown shale, few steeply dipping streaks of black ore, lattice-stucture calcite, at 396.6-396.8	
400.5	401	JE	ss., purple, f. grain, calcar.	

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1400 - 2150	29-13-9	6748	1 . 3	1	9/21/56	J.A.R.

Geology — Hannum Rig #11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	QAL		Blowsand											QAL
	QAL / JB			ss. l-gy-brn, f-grain.										QAL / JB
0														
0														
0	JB? / JS?		sh. red, streaks of ss.											JB? / JS?
0														
0														
0														
0														
0			sh. red											
0														
0														
0														
0		

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Hole 1400-2150 | Location 29-13-9 6748 2 | Logged by 9/21/58 J.A.R.

Hannum Rig #11

Depth	Description
261	JE ss. purple, l.gr, f.grain, calcar
	TD 265

Depth	Assay
THB	1.0 .01
	No count
226	30 .01
227	1.0 .1
227.5	2.5 .1
228	7.5 .1
228.5	2.5 1.0
229	9.5 .1
229.5	2.0 1.0
230	1.5 1.0
230.5	2.5 .1
231	1.5 .1
232	4.5 .1
232.5	9.0 .1
233	5.5 .1
233.5	3.0 .1
234	2.5 .1
234.5	4.5 .1
235	3.5 1.0
235.5	3.0 1.0
236	2.0 1.0
236.5	1.5 1.0
237	2.0 1.0
237.5	1.0 1.0
238	8.5 .1
238.5	2.0 .1
239	4.5 .01
	No count
240.5	9.0 .01
241	1.5 .01
	No count
246	3.0 .01
247	3.0 .1
248	3.6 .1
249	2.0 .1
250	3.0 .1
251	1.5 .1
252	1.0 .1
	No count
264.2	

Depth	Description
261	JE
	TD 265

1400-2150
29-13-9

to. M. Fraser
memo 10/24/56

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1400-2150	29-13-9	3 3	9/21/56	J.A.R.

Footage From	Footage To	Formation	Geology: Description	Samples
			Hannum Rig #11	
237	239.5	JT	Ls, m-dk. gray, 30-60% re-xtall., red min. filling fractures, thin wavy streaks black	
			Shale, some lumps of green shale, aren.	
339.5	341.9	JT	Ls, m-dk. gray, 30% re-xtall., v. aren, much green shale	
341.9	343.4	JT	Ls, dk. gray, 10-20% re-xtall., crenulated bedding, thin lenses of brown-black shale	
343.4	347	JT	Ls, dk. gray, 10-20% re-xtall., many thin beds of brown-black shale, aren.	

Drawing No. 793

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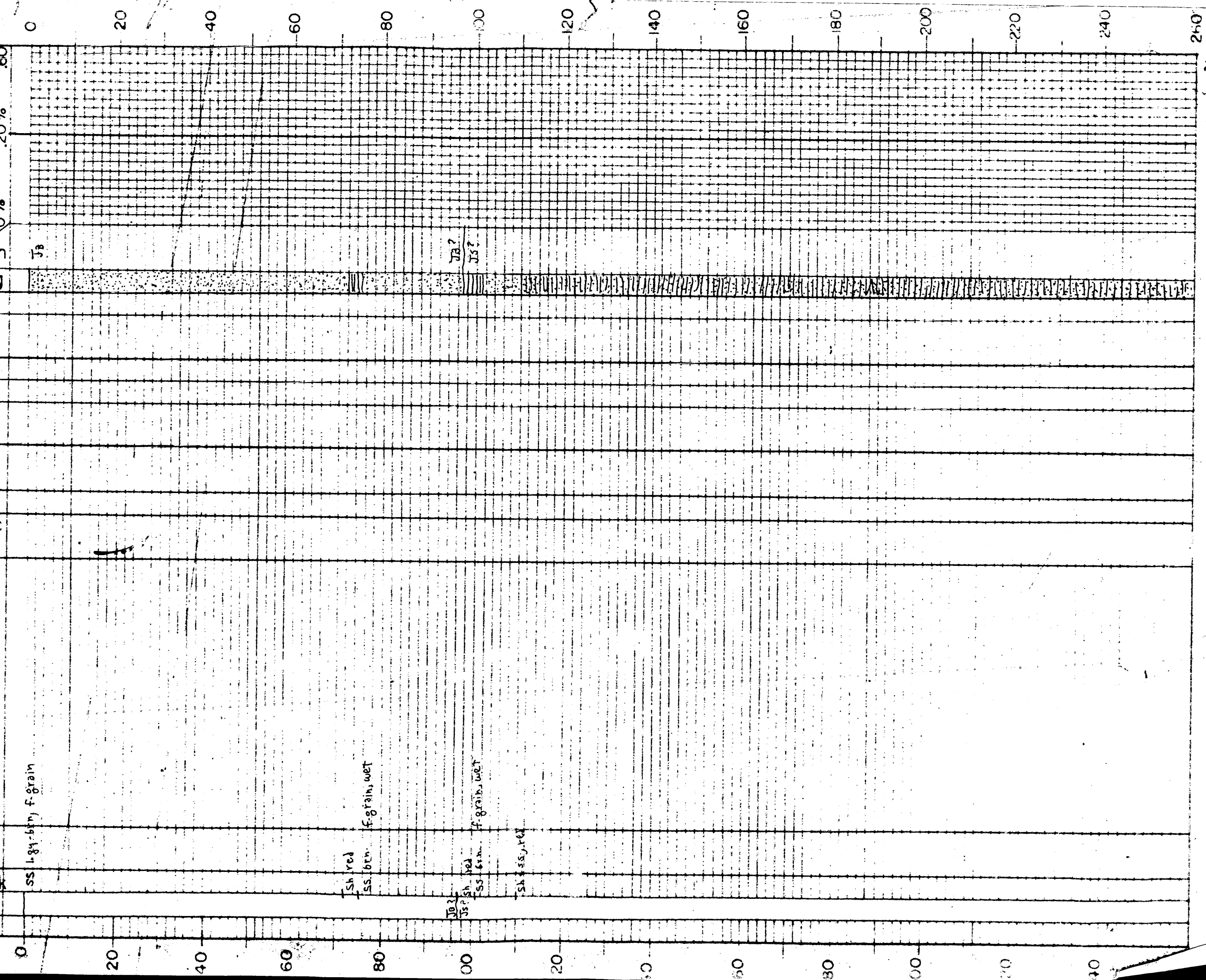
Hole No.	Sec.	Elevation	Page of	Pages	No Insets	Date	Logged by
1750-2400	29-13-9	6271'	1	3	1	9/7/56	THR

Geology

Hannum Rig #11

Dotted line Graphic Assay Solid Line - Probe



Hole No. 1750-2400

Section 29-13-9

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Hole No.	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
1750-2400	29-13-9	6771	2	3	1	9/7/56	J.A.R.

Geology

Hannum Rig #11

Description

Footage | Formation | Rock | Color | Geologic Features | Core | Probe Depth | Probe Reading | Probe Scale | Scaler Interval | Assay Fact | Graphic Log | Description

Dotted line Graphic Assay
Solid Line - Probe

0% 20% 60

Footage: 260, 280, 300, 320, 340, 360, 380, 140, 160, 80, 200, 220, 240, 260

Formation: J3 shales, red; ss brn, f. grain, wet

Rock: J3 / J7 ss, m. gr.

(see inset for detailed log)

TD 320'

Core: 2' dry cutting samples

Probe Depth / Reading / Scale:

T.H.B. .01

No count

281 3.0 .01
282 5.0 .01
283 6.0 .01
284 1.0 .1
285 1.5 .1
286 2.0 .1
287 1.5 .1
288 1.0 .1
289 1.0 .1
290 1.0 .1
291 3.0 .01
292 2.0 .01
293 4.0 .01
294 4.0 .01
295 8.0 .01
296 4.0 .01
297 8.0 .01
298 3.5 .1
299 3.0 .1
300 4.0 .1
300.5 4.0 .1
301 3.0 .1
301.5 2.0 1.0
302 1.3 1.0
302.5 4.5 .1
303 1.5 .1
303.5 6.0 .01
304 8.0 .01
304.5 2.0 .1
305 3.0 .1
305.5 2.0 .1
306 2.5 .1
306.5 1.5 .1
307 2.5 .1
307.5 2.0 .1
308 3.0 .1
308.5 6.5 .1
309 5.5 .1
309.5 2.5 .1
310 5.0 .1
310.5 5.8 .1
311 1.0 .1
312 1.0 .01
313 0.5 .01

No count

317.3

Graphic log: Js; Js / J7; TD 320'

Hole No 1750-2400
Sec 29-13-9

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1750-2400	29-13-9	3 of 3	9/7/56	J.A.R.

Hannum Rig #11

Footage From	Footage To	Formation	Description	Samples
300	306.9	JT	Ls, m.-dk. gray, 40-80% re-xtall, v. thin lenses of black shale, green shale lens at 300.8, red min. (iron?) in thin horizontal bands, platy, s. aren.	
306.9	308.5	JT	Ls, m.-dk. brownish-gray, 80-100% re-xtall, vert. fract., much iron in fract. with calcite, small carnotite stain at 307.6., s. arena argill. Lattice struct. calcite at 307.3.	
308.5	311	JT	Ls, m. gray, 30-50% re-xtall, well developed vert. fract., large calcite xtls. in fractures, s. aren, thin lenses of black shale,	
311	315	JT	Ls, dk. gray, 10-30% re-xtall, s. aren, v. calcitic	
315	316.7	JE	ss, purple, f. grain, calcar.	
316.7	320	JE	SS, l. gray, streaks of yellow-green, f. grain calcar.	

Drawing No. 793

Wm. M. Fraser
memo 10/24/56

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2800-2300	29-13-9	6824'	1 of 2	0	9/18/56	J.A.R.

Geology — Taylor Rig #7

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	QAL	Blowsand												QAL
														QAL / JB
	JB	SS.	lgy-brn, f-grain											
20														
40														
60														
80	JB? / JS?	Sh	red											JB? / JS?
100														
120														
140														
160														
180														
200														
220														
240														
260														

Dotted line Graphic Assay Solid Line - Probe

0% .20% .60

Dwg No. 792

Hole No. 2800-2300

Section 29-13-9

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Hole No.	Sec.	Elevation	Page of	Pages	No. Insets	Date	Logged by
2800-2300	29-13-9	4824'	2	2	0	9/18/56	J.A.R.

Geology: Taylor Rig #7

Depth	Lithology	Description
260	Js	sh red
400	SS.	brn. f. grain.
	Sh.	green.
420	Js / JT: LS.	m-dk. gy 30-50% re-x'tall, gren.
	LS.	dk. gy 70% re-x'tall.
	LS	m-brn-gy, streaks of brn. sh, 30% re-x'tall.
	JT / JE: LS. / SS.	m. gy, 10% re-x'tall, v. gren. purple-lt gy, f. grain, calcar.
440	TD 439'	

Probe Reading / Scaler Reading / Assay Foot Interval

Depth	Probe Reading	Scaler Reading	Assay Foot Interval
	T-H-B	1.5	.01
		No count	
408		8.5	.01
409		3.5	.1
410		1.5	.1
411		1.0	.1
412		1.5	.1
413		4.5	.01
414		3.5	.01
415		6.5	.01
416		1.5	.1
417		1.5	.1
418		1.4	.1
418.5		2.0	.1
419		6.0	.1
419.5		6.5	.1
420		3.0	.1
421		1.5	.1
422		2.5	.01
		No count	
427			

Geologic Log: Js; Js / JT; JT / JE; TD 439'

Dotted line: Geologic Assay; Solid line - Probe

2' wet cutting samples

Dwg No 192

Hole No. 2800-2300
Section 29-13-9

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memo 10/24/56

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3100-2200	29-13-9	6835'	1 / 3	1	9/7/56	J.A.R.

Geology: Footage | Formation | Type of Rock | Color | Description (Taylor Ridge #7) | Diagnostic Features | Geiger | Samples Taken

Probe: Depth | Reading | Scale

Scaler: Foot Interval | Assay

Graphic log | Description

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Footage	Formation	Type of Rock	Color	Description
0	QAL	Blowsand		
20				
40	QAL / JB	SS	lgy-brn, f grain	
60				
80				
100				
120				
140				
160				
180	JB? / JS?	Sh	red	
200				
220				
240				

Graphic log: QAL; QAL / JB; JB ? / JS ?

Dotted line Graphic Assay Solid Line - Probe: 0 20 40 60 80 100 120 140 160 180 200 220 240 260

Dwg No 792

Hole No 3100-2200
Section 29-13-9

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W. M. Treasurer
memo 10/24/56

Hole No.	Sec.	Elevation	Page of Pages	No Insets	Date	Logged by
3100-2200	29-13-9	6835'	2 / 3	1	9/7/56	J.A.R.

Geology

Taylor Rig #7

Footage | Formation | Type of Rock | Color | Description | Geiger | Diagnostic Features | Samples Taken

Probe: Depth | Reading | Scale

Scaler: Interval | Assay Foot

Graphic log | Description

Dotted line Graphic Assay
Solid Line - Probe
0% 20% 60

Depth	Reading	Scale
THB		.01
No count		
406.5	4.0	.01
407.5	3.5	.1
408.5	2.0	.1
409.5	9.0	.01
410.5	3.5	.1
411.5	5.5	.1
412	8.5	.1
412.5	2.5	1.0
413	1.5	1.0
413.5	1.5	1.0
414	2.0	1.0
414.5	1.5	1.0
415	3.0	.1
415.5	1.8	.1
416	1.5	.1
416.5	6.0	.1
417	4.0	.1
417.5	4.0	.1
418	6.0	.1
418.5	4.0	.1
419	7.0	.01
419.5	2.0	.01
424	No count	

Footage: 260, 280 (20), 300 (40), 320 (60), 340 (80), 360 (100), 380 (120), 400 (140), 420 (160), 440, 460, 270, 240, 260

Formation: Js

Type of Rock: Sh

Color: red

Sh, green

Js / JT Ls. dk. - m. gr.

(see inset for detailed log)

JT / JE ss. purple, quartz, f. grain, calcar.

TD 429'

Geiger: core

Graphic log: Js, JT, JT / JE

TD 429'

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
3100-2200	29-13-9	3 3	9/16/56	J. A. R.

Taylor Rig #7

Footage From	Footage To	Formation	Geology Description	Samples
409	409.9		Core lost	
409.9	412.6	JT	Ls, m. gray, 70-90% re-xtall., s. aren, shale, yellow in thin lenses, few stringers of carnotite,	
412.6	412.8	JT	Ls, m-dk. gray, 80% re-xtall., crenulated bedding, argill.	
412.8	417.7	JT	Ls, m-dk gray, 70% re-xtall, black shale along few slippage planes, s. aren.	
417.7	417.8	JT	Shale, yellow (high count), calcar.	
417.8	418.3	JT	Ls, m-dk. gray, 90% re-xtall, v. fract. brown stain on fract., v. calcitic, s. aren.	
418.3	418.4	JT	Shale, yellow, calcar. (high count.	
418.4	426	JT	Ls, m-dk. gray, 20-60% re-xtall, s. aren, lenses of green ores sand in bottom 3"	
426	426.6	JE	SS. purple, f. grain, calcar.	
426.6	429	JE	SS. gray, streaks of red, f. grain, calcar.	

Drawing No. 793

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W. M. Jensen
memo 10/24/56

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1800-2200	29-13-9	6778	1 / 3	1	9 10 /56	JHR

Hannum Rig #11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	JB	ss	lgy-brn	f grain										JB
20														
40														
60														
80		ss	brn	f grain, wet										
00														
20	JB? / Js?	sh	red											JB? / Js?
10														
60		ss	brn	f grain, wet										
80		sh	red	sandy										
00														
20														
40														
60														

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

0 20 40 60 80 00 20 10 60 80 00 20 40 60

0 20 40 60 80 100 120 140 160 180 200 220 240 260

Hole No 1800-2200
Section 29-13-9

Dwg No 1792

Hole No	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
1800-2200	29-13-9	6778'	2	3	1	9/10/56	J.A.R.

Geology

Hannum Rig #11

Description

Dotted line Graphic Assay
Solid line - Probe

Footage	Formation	Type of Rock	Color	Description
260				
280 20		ss	brn.	f. grain, hard
300 40	Js / Jt	LS.	dk-m. gy.	
				(see Inset for detailed log)
320 60	Jt / JE	LS. / SS.	dk-grn. gy. 30% re-x+alk, calcitic / m-dk grn. 30% re-x+alk, v. aren. red, f grain	
	TD 325'			
340 80				
360 100				
380 120				
400 140				
60				
80				
100				
120				
140				

Sample Chart: dry sampled; core; 2' wet cutting samples

Probe Reading / Scale / Scaler Interval / Assay Footage

Probe Reading	Scale	Scaler Interval
THB 2.5	.01	
No count		
285 8.0	.01	
286 3.0	.1	
287 5.0	.01	
288 3.0	.01	
289 2.0	.01	
290 3.0	.01	
291 7.0	.01	
292 3.0	.01	
293 1.5	.1	
294 4.0	.01	
295 4.0	.01	
296 6.0	.01	
297 4.0	.1	
298 1.0	.1	
299 2.0	.01	
300 2.0	.01	
301 1.5	.01	
302 2.0	.01	
303 2.0	.01	
304 4.0	.01	
305 2.0	.1	
306 2.0	.01	
307 3.0	.01	
308 4.5	.1	
306.5 7.5	.1	
309 2.5	.1	
309.5 4.0	.1	
310 6.5	.1	
310.5 9.6	.01	
311 3.0	.01	
311.5 1.0	.01	
312 1.0	.01	
No count		
321.6		

Graphic Log: Js; Jt; Jt; JE; TD 325'

Footage: 1800-2200
29-13-9

Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1800-2200	29-13-9	3 of 3	9/10/56	J.A.R.

Hannum Rig #11

Footage From	Footage To	Formation	Geology: Description	Samples
301	302.8	JT	Ls, m-dk gray, 50-90 % re-xtall., vert. fract. white & black calcite in fracts,	
~~302-303~~			some red-brown min. in fract. (iron), s. aren.	
302.8	303.3	JT	Ls, dk. gray, 40% re-xtall, crenulated bedding, thin lenses of black shale	
303.3	311	JT	Ls, m-dk. gray, 20-70 % re-xtall., s. aren., highly re-xtall. in few slippage	
			planes, steeply dipping veins filled with black material.	

Drawing No. 793

Hum. Inner
memo 10/24/56

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3100-2100	29-13-9		1 / 3	1	9/17/56	J.A.R.

Taylor Rig #7

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	QAL	Blow sand												QAL
40–45	QAL / JB	SS	light-med grain											QAL / JB
160–180	JB? / JS?	Sh	red											JB? / JS?

Dotted line Graphic Assay
Solid Line - Probe

0% .20% .60

0 20 40 60 80 100 120 140 160 180 200 220 240 260

Hole No. 3100-2300
Sec. 29-13-9

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3100-2700	29-13-7		2 / 3	1	9/17/56	J.A.R.

Geology — Taylor Rig #7

Probe — Scale

Scaler — Assay

Dotted line: Graphite, Assay and Line-Probe

Footage	Formation	Type of Rock	Color	Description	Geiger Reading	Probe Reading	Probe Scale	Graphite	Assay
260	Js	sh.	red		THB	1.5	.01	Js	
						No count			
					390	4.5	.01		
					391	8.5	.01		
					392	2.0	.1		
					393	2.0	.1		
280					394	6.0	.01		
					395	1.0	.1		
					396	3.5	.1		
					396.5	8.5	.1		
					397	4.0	1.0		
					397.5	1.5	1.0		
					398	1.3	1.0		
					398.5	1.0	1.0		
					399	6.0	.1		
300					399.5	2.0	1.0		
					400	1.8	1.0		
					400.5	4.0	1.0		
					401	6.5	1.0		
					401.5	4.5	1.0		
320					402	2.0	1.0		
					402.5	6.5	.1		
					403	4.0	.1		
					403.5	4.2	.1		
					404	5.5	.1		
					404.5	6.0	.1		
					405	5.5	.1		
					405.5	6.0	.1		
					406	6.3	.1		
					406.5	8.0	.1		
					407	5.0	1.0		
					407.5	6.0	1.0		
					408	5.0	1.0		
					408.5	5.5	1.0		
340					409	1.5	1.0		
					409.5	7.0	.01		
					410	4.0	.01		
						no count			
					424.5	6.0	.01		
					425	4.5	.01		
					426	3.0	.01		
						no count			
					427				
360									
		ss.	grn.	f. grain					
380									
		sh.	green						
400	Js / Jt	Ls.		(See inset for detailed log)				Js / Jt	
						>.2 mR/hr			
420	Jt / JE	ss.	lt. gy-purple, f. grain, calcar-			core		Jt / JE	
440	TD 434'							TD 434'	
460									

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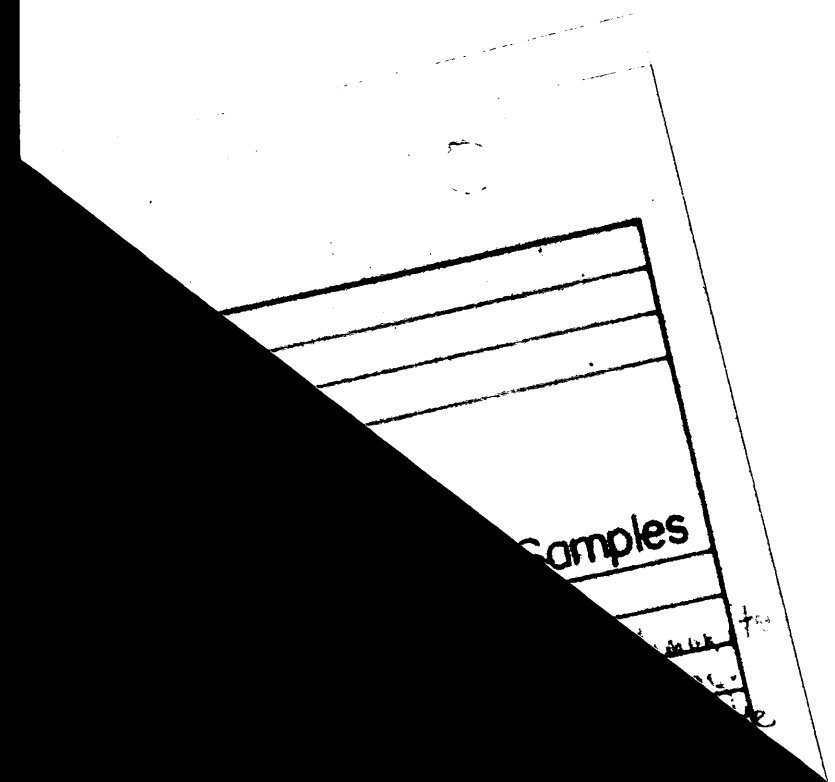
Hole No.	Sec.	Page of Pages	Date	Logged by
3100-2100	29-13-9	3 3	29-13-9	J.A.R.

Taylor Rig #7

Footage From	Footage To	Formation	Geology — Description	Samples
398	398.6		core lost	
398.6	404.7	JT	Ls, m-dk. gray, 70-100% re-xtall., many gently dipping stringers of brown-black sh., some [illegible] stains several steeply dipping thin stringers of ore., fract. and re-cemented fract.	
404.7	408	JT	Ls, dk gray-black, 80-100% re-xtall, zone of black ore 1" wide at 406.4, some pyrite in 407.6, 4, many steeply dipping stringers of black ore, appears to be fract. and recemented, limonite stains, aren.	
408	415.2	JT	Ls, m-dk. gray, 80-100% re-xtall., steeply dipping fractures, thin stringers of black ore, v. argill., appears to be fract. & recemented, some green shale mixed in along fract. surfaces.	
415.2	416.9	JT	Ls, dk-brownish-gray - med. gray, 10-30% re-xtall, many thin stringers of brown shale, argill.	
416.9	419	JT	Ls, dk-m. gray, 20-30% re-xtall, crenulated bedding.	
419	428	JT	Ls, m.-brownish-gray, 10-20% re-xtall, s. aren., argill., layers of brown shale. Lattice struct. calcite at 425.7, steeply dipping veins filled with calcite in bottom 2'	

Drawing No. 793



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Hole No.	Sec.	Elevation	Page of	Pages	No. Insets	Date	Logged by
1600-2700	29-13-9	6755.05	1	3	1	9/4/56	J.A.R.

Hannum Rig #12

Geology

Description

Probe: Depth, Reading, Scale

Scaler: Interval Foot, Assay

Graphic log

Dotted line Graphic Assay
Solid Line - Probe

0% 20% 60

Elevation | Depth | Formation | Color | Description | Geologic Features | Gamma | Sample

0 — QAL Blowsand

QAL / JB ss sh, brn red, f. grain

20

40

60

JB? / Js? sh red

80

00

20

ss brn, f. grain

0

Shined, streaks of brn SS.

0

0

ss brn, f. grain damp.

0

Graphic log: QAL; QAL / JB; JB? / Js?

0 20 40 60 80 120 140 160 180 200

Hole No. 1600-2700
Section 29-13-9

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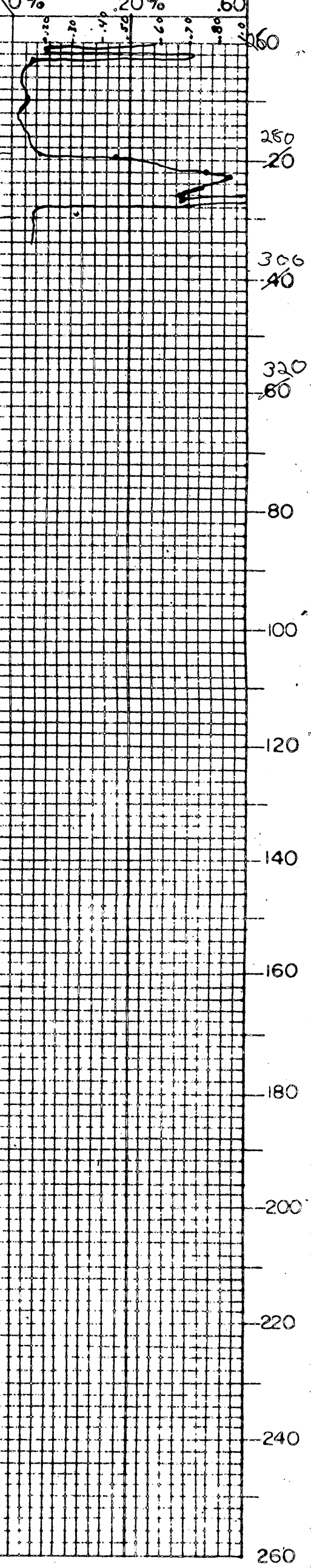
Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1600-2700	29-13-9	6755.05	2 / 3	1	9/ /56	JAR

Hannum Rig #17

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Assay	Graphic log	Description
260	Js	SS	brn	f. grain				THR	1.5	.01				
		LS-SS		see inset for detailed log				↓						Js
		SS	1.8%	f. grain				255	NO COUNT					
							core	256	2.0	.01				
								257	2.7	.1				
								258	4.0	.1				
								259	4.5	.1				
280	Js							260	6.0	.1				
20	Jt	LS		see inset for detailed log				261	2.0	.1				Js
								262	7.0	.01				Jt
								263	7.0	.01				
								264	1.0	.1				
								265	5.0	.1				
								266	7.0	.01				
	Jt							267	2.5	.01				Jt
	Je	SS	log-red	f. grain				268	1.5	.01				Je
300								269	1.5	.01				
							core	270	1.5	.01				
40								271	1.5	.01				
	TD	300						272	1.5	.01				
								273	3.0	.01				TD 300'
								274	1.0	.1				
								275	.9	.1				
								276	4.0	.01				
								277	4.0	.01				
								278	8.0	.01				
								279	1.6	.1				
320								280	4.5	.1				
60								281	5.5	.1				
								282	7.5	.1				
								282.5	7.5	.1				
								283	7.5	.1				
								283.5	5.5	.1				
								284	6.5	.1				
								284.5	2.0	1.0				
								285	2.0	1.0				
								285.5	2.0	.1				
								286	3.0	.01				
340								287	1.5	.01				
80								↓	NO COUNT					
								297.5						
360														
100														
380														
20														
120														
140														
160														
180														
200														
220														
240														
260														

Dotted line Graphic Assay
Solid Line - Probe



Dwg No 792

Hole No _____

Section 29-13-9

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Hole No.	Sec.	Page of Pages	Date	Logged by
1600-2700	29-13-9	3 3	9/4/56	JAR

Hannum Rig #11

Footage From	Footage To	Formation	Description	Samples
263	264.5	Js	SS, l-m. greenish gray, f. grain, thin lenses of LS.	
264.5	267.2	Js	SS & LS, LS, m-dk. gray, 90% re-xtall., SS, l-m. gray, f. grain, calcar, streaks of red ss & sh.	
267.2	273	Js	SS, l. gray, few streaks of pink, f. grain, calcar, few spots of yellow (carnotite?)	
273	280		plugged.	
280	290	Jt	LS, m. gray, 60% re-xtall., 100% re-xtall along fract., streaks of red shale, steeply dipping fractures filled with carnotite in middle 2', some fract filled with black mineral (ore?), S. aren., some manganese stain.	
290	290.6	Jt	SS, l. gray, f. grain, calcar	
290.6	291.2		SS, purple, f. grain, calcar	
291.2	295.5	Jt	SS, l. gray, green, purple, & red mottled, f. grain, calcar	
295.5	300	Jt	SS, red, f. grain, calcar	

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
2000-2200	29-13-9	6787'	1 3	1	9/14/56	J. A. R.

Hannum Rig #11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Scaler Assay	Graphic log	Description
0	Qal / J_B	Blo sand		ss. lig-brn. f grain										Qal / J_B
80				ss brn., f grain, wet										
120	J_B? / J_S?			sh., red, green										J_B? / J_S?
200				ss brn, f grain										
220				sh red, green										

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Dwg No 798

Hole No 2000-2200
Section 29-13-9

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Hole No.	Sec.	Elevation	Page of	Pages	No. Insets	Date	Logged by
2000-2200	29-13-9	6787'	2	3	1	9/14/56	J.A.R.

Geology

Hannum Rig #11

Description

Footage | Formation | Type of Rock | Color

260 — Js — sh — red, grn.

280 / 20

300 / 30 — sh, green, grey. (see inset for detailed log)

Js / Jt — Ls, m-dk. gy, 50-60 % re-xtall, streaks of grn. sh, grn, calcitic

Ls, dk. brn, 20% re-xtall, s. grn, v. calcitic.

Ls.

320 / 60 — (see inset for detailed log)

Ls., dk gy, 50% re-xtall, grn, calcitic, streaks of grn-sh.

Jt / Je — Ls, dk-m. gy, 20% re-xtall, v. grn, streaks of grn-sh.

Ss, lt-gy-red, f grain, calcar

340 / 80

TD 340'

360 / 100

20

40

60

80

100

120

140

160

180

200

220

240

260

Features | Geologic Cross Section | Geiger Counts | Core Breaks

Core

2' wet cutting samples

Core

Probe

Depth	Reading	Scale
T.H.B.	1.5	.01
	No count	
296	3.0	.01
297	3.0	.01
298	3.5	.01
299	2.5	.01
300	1.5	.01
301	1.0	.01
302	1.0	.01
303	1.0	.01
304	1.0	.01
305	1.0	.01
306	3.0	.01
307	4.0	.01
308	4.0	.1
308.5	3.0	1.0
309	6.0	1.0
309.5	3.2	1.0
310	2.5	.1
310.5	7.0	.01
311	5.0	.01
311.5	3.0	.01
312	2.0	.1
313	3.0	.1
313.5	4.0	.1
314	1.5	.1
315	2.0	.01
	No count	
323	5.0	.01
323.5	2.0	.1
324	1.0	.1
325	3.0	.01
326	8.0	.01
327	2.0	.01
	No count	
338		

Scaler

Interval | Assay Foot

Graphic log | Description

Js

Js / Jt

Jt / Je

TD 340'

Dotted line Graphic Assay

Solid Line - Probe

0% 20% 60

260 / 280 / 20 / 300 / 40 / off scale / 320 / 60 / 340 / 80 / 360 / 120 / 140 / 160 / 180 / 200 / 220 / 240 / 260

Hole No. 2000-2200

Sec. 29-13-9

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2000-2200	29-13-9	3 of 3	9/14/56	J.A.R.

Hannum Rig #11

Footage From	Footage To	Formation	Geology: Description	Samples
295	296.2		core lost	
296.2	301	Js.	~~ssash, green-gray, thin lenses of lime interbedded, ss. f grain, calcar., Ls, dk. gray, 20% re-xtall.~~	
			sh., green, calcar.	
301	305	Js	~~ssash., ss., green-gray, f grain, calcar, sh, green, calcar.~~	
305	313		plugged.	
313	315.8	JT	~~Ls, m. gray, 20-50% re-xtall. 100% re-xtall in some zones, steeply dipping veins of~~	
			black material (ore), small spot of carnallite at 313.6, arene.	
315.8	318.3	JT	Ls, dk. gray, 10-20% re-xtall, crep. bedding, many thin beds of	
			brown shale	
318.3	323	JT	Ls, m-brownish-gray, 10-20% re-xtall, aren, many thin layers of	
			brown shale, lattice strust. calcite at 322.4	

Drawing No. 793

Irsser
W. M.
received 10/24/56

Hole No.	Location	Page	Pages	No. Inserts	Date	Logged by
3000-2200	29-13-9 6834'	1	3	1	8/29/56	J.A.R.

Drilled by: Taylor Rig #7

Depth | Time Per Foot | Bit Record | Description | Interval | Probe Reading | Scale | Interval | Assay | Graphic Log | Dotted line: Graphic Assay Lead Line - Probe (0% 20% 60)

0 — φAL Blowsand

20

40 — φAL / JB ss. l-gy, f-grain

60

80

100

120

140

160 — JB? / JS? sh red

180

200

220

240

260

φAL

φAL / JB

JB? / JS?

Hole No. 3000-2200
Loc. 29-13-9

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Hole No	Sec	Elevation	Page of Pages	No. Insets	Date	Logged by
3000-2200	29-13-9	6834'	2 / 3	1	8/27/56	J.A. R.

Geology

Taylor Rig #7

Description

Footage | Lithologic | Lithologic Post | Color | Geologic Features | Geol. Log | Sample Bags

Probe Depth | Reading | Scale | Scaler Interval Foot | Assay | Graphic log | Description

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

260 — Js sh red

280 — 25

300 — 40

320 — 60

340 — 80

360 — 100

380 — 120

400 — 140

420 — 150

440 — 160

THB ↓

Depth	Reading	Scale
	1.5	.01
	No count	
368	4.0	.01
369	4.4	.01
370	9.0	.01
371	8.0	.01
372	5.0	.1
372.5	6.0	.1
373	6.5	.1
373.5	6.0	.1
374	7.0	.1
374.5	7.0	.1
375	9.0	.1
375.5	8.0	.1
376	6.0	.1
376.5	7.0	.1
377	2.0	.1
377.5	3.1	.1
378	8.0	.01
378.5	7.0	.01
379	7.0	.01
380	5.0	.01
381	2.0	.1
381.5	5.0	.1
382	3.5	1.0
382.5	4.0	1.0
383	3.5	1.0
383.5	3.7	1.0
384	5.5	1.0
384.5	off scale	
385	8.5	1.0
385.5	2.5	1.0
386	1.0	1.0
386.5	3.0	.1
387	3.0	.1
387.5	5.0	.1
388	6.0	.1
388.5	5.0	.1
389	7.5	.1
390	5.5	.1
390.5	2.0	.1
391	4.0	.01
392	4.5	.01
393	1.5	.01
394	1.5	.01
395	2.0	.01
396	7.0	.01
397	1.5	.1
398	5.0	.01
399	2.5	.01
↓ 415	No count	

.334
.610

Js
Jt

Sh green
Js
Jt LS, m-dk. gy.

see inset for detailed log.

core

Jt
Je ss. red, f. grain.

TD 424

Jt
Je

TD 424

3000-2200

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
3000 - 8200	29-13-9	3 3	8/29/56	J.A.R.

Taylor Rig #7

Footage From	Footage To	Formation	Geology: Description	Samples
374	376		core lost	
376	378.9	Js	shale, green, aren, lime lenses in bottom 6"	
378.9	379.7	Js	ss, l. gray, f. grain, v. calcar, argill., lenses of green shale	
379.7	383	Jr	ls, m-dk. gray, 70% re-xtall., thin lenses of black shale.	
383	392	Jr	Ls, m-dk. gray, v. aren., much green shale & l. gray sand.,	
392	404	Jr	ls, m-dk. gray, 50% re-xtall., black shale along few slippage planes, carnotite at 400', large calcite xtls. at 403.6'	
404	404.6		core lost	
404.6	405	Jr	Ls, dk. gray, 70% re-xtall., lenses of black shale, s. aren.	
405	405.5	Jr	Ls, m-dk. gray, 70% re-xtallized, crenulated bedding, lenses of brown-black shale.	
405.5	419.3	Jr	Ls, m-dk. gray, 30% re-xtall., s. aren, many lenses of brown-black shale, some vertical fracture, zones of lattice struct. calcite at 410.5, 411.2, 415, 415.5'	
414	415		core lost.	
419.3	419.3	JE	ss, purple, f. grain.	
419.3	424	JE	ss, red, orange & gray, f. grain.	

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Hole No	Sec	Elevation	Page of	Pages	No Insets	Date	Logged by
2900-2300	29-13-9	6828'	1	3	1	8/31/56	JAR.

Geology

Taylor Rig #7

Description

Probe Scaler

Scale Reading | Scale Interval | Assay Foot | Graphic log | Description

Dotted line Graphic Assay
Solid Line - Probe

0% 20% 60

Depth	Description
0	QAL Blowsand
20	
30	QAL JB SS. l.gy, m-f. grain, calcar.
40	
60	
80	
100	
120	
140	
160	Jb ? Js ? sh red
180	
200	
220	
240	
260	

Graphic log: QAL; QAL JB; JB ? Js ?

Hole No 2900-2300
Section 29-13-9

Hole No	Sec	Elevation	Page of	Pages	No. Insets	Date	Logged by
2900-2300	29-13-9	6828'	2	3	1	8/31/56	J.A.R.

Geology

Taylor Rio #7

Footage | Formation | Type of Rock | Color | Description

Probe: Reading | Scale

Scaler: Interval | Assay Foot

Graphic Log | Description

Dotted line - Graphic Assay
Solid line - Probe

0% 100% 60

Reading	Scale
THB 1.5	.01
No count	
393.5 7	.01
394 7	.01
395 3	.01
396 1.5	.01
400 8	.01
400.5 2	.1
401 7	.01
401.5 2	.1
402 2.5	.1
402.5 6	.1
403 2	.1
403.5 9	.01
404 5	.01
No count	
409	

Js

Sh. green

Sh, red-green

ss (brown-gy) f-m grain

Js

Jt Ls, m-dk gy (see inset for detailed log)

Jt

ss, (red), f-m grain

TD 418'

Js

Jt

approx.

Jt

Je,

TD 418'

Dwg No. [illegible]

Hole No 2900-2300

Section 29-13-9

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged By
2900-2300	29-B-9	3 of 3	29-13-9	JH-R

Footage From	Footage To	Formation	Geology: Description	Samples
			Taylor Rig 7	
363	382.7	Js	ss, red-brown, f. grain, argill. some gray sand.	
382.7	384	Js	ss, l. gray, f. grain,	
384	386.1	Js	Shale, red-brown	
386.1	387	Js	ss, l. gray, streaks of red, f. grain, argill.	
387	389.7	Js	ss, red-brown, f. grain	
389.7	391.3	Js	ss, red-gray, [illegible] streaks of green shale. Shale	
391.3	391.5	Js	Ls. m. gray	
391.5	393	Js	ss, red-brown, f. grain, argill.	
393	394	Js	core lost	
394	396.2	Js	ss, brown, f. grain,	
396.2	399.5	Js	ss., gray-green, f. grain, v. calcar., argill.	
399.5	403	Jr	Ls., m-dk. gray, 30% re-Xtall, v. calcitic, many black sh. partings,	
			fract. & re-xtall zone at 401.7	
403	408		core lost	
408	416.1	Jr	Ls, dk-m. gray, 30% re-xtall, many black sh. partings, calcitic,	
			thin steeply dipping [illegible] in bott. 3" (core),	
416.1	417	JE	ss, purple-red, f. grain	
417	418	JE	ss, l. gray, streaks of yellow, f. grain.	

Drawing No. 793

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Hole			Pages			Logged by
2400-2200	29-13-9	6806	1	3	1	9/15/56 J.A.R.

Taylor Rig #7

Probe Recovery | Probe Recovery | Core Recovery | Core Recovery

0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260

$\frac{Q_{AL}}{}$ Blowsand

$\frac{Q_{AL}}{J_B}$ SS. 1.0y-6rn f.grain

$\frac{J_B?}{J_S?}$ Sh red

Q_{AL}

Q_{AL}

J_B

$\frac{J_B?}{J_S?}$

2400-2200
29-13-9

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Hole No. 2400-2200 | Sec. Elevation 29-13-9 | 6806 | Page 2 of 3 Pages | 1 | 9/15/56 | J.A.R.

Geology

Taylor Rig #7

Description

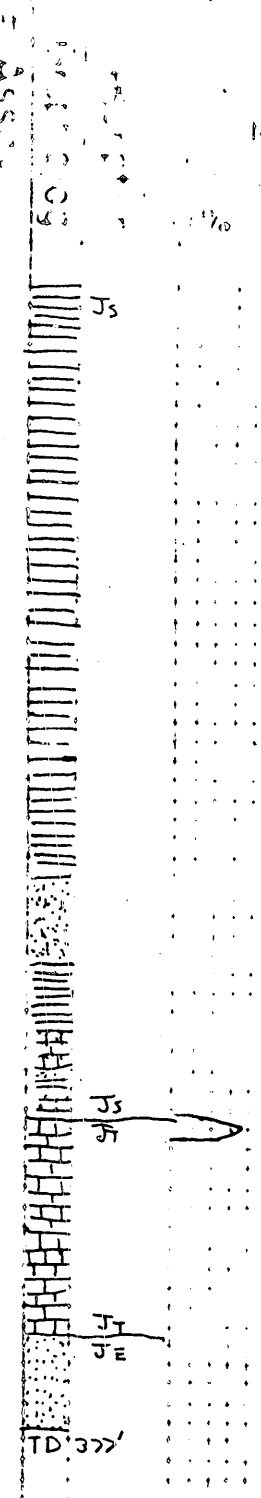
Depth	Lithology	Description
260	Js	sh red
280		
300		
320	Ss	brn. f. grain
	Sh.	green
340		see inset for detailed log
	Js / JT	Ls, m-dk. gy, 40 % re-xtal, aren.
360	Ls	m. brn-gy, streaks of brn. sh., 10-20 % re-xtal.
	JT / JE	Ls., m gy, 20 % re-xtallz., v. aren.
	JE	Ss. purple-gy, f grain, calcar.
380	TD 377'	
400		

Probe

Depth	Count	Scale
T.H.B.	1.0	.01
	No count	
339	8.0	.01
340	7.0	.01
341	7.0	.01
342	8.0	.01
343	3.0	.01
	No count	
344.5	8.0	.01
345	1.5	.01
346	2.5	.01
347	2.0	.01
348	4.0	.01
	No count	
356	5.0	.01
357	9.0	.01
358	8.5	.01
359	7.5	.01
	No count	
372.3		

core

2' cutting samples



Hole No. 2400-2200

Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
2400-2200	29-13-9	3 3	9/15/56	T.A.R.

Taylor Rig #7

Footage From	Footage To	Formation	Description	Samples
335	340.4	Js	SS + Shale, l. green, calcar, f. grain.	
340.4	341	Js	Ls, m. gray, dk. gray, 40% re-xtall, sand + shale mixed in.	
341	345	Js	SS + Sh, lenses of Ls; SS, l. green, f. grain, calcar.; Sh. l. green, calcar.; Ls, dk. gray.	

Drawing No. 793

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Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3200-2100	29-13-9	6833	1 / 3	1	9/19/56	J.A.R.

Taylor Rig #7

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Interval	Scaler Foot	Scaler Assay	Graphic log	Description
0	QAL	Blown sand													QAL
20															
40	QAL / JB	ss		lgy-tan f grain											QAL / JB
60															
80															
100															
120															
140															
160															
180	JB? / JS?	sl	red												JB? / JS?
200															
220															
240															
260															

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Hole No. 3200-2100
27-[illegible]

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
3200 - 2100	29-13-9	6833	2 3	1	9/19/56	J.A.R.

Geology — Taylor Rig #7

Footage | Formation | Type of Rock | Color | Description | Diagnostic Features | Geiger | Samples Taken

Probe — Depth | Reading | Scale

Scaler — Foot Interval | Assay

Graphic log | Description

Dotted line Graphic Assay Solid Line - Probe (0% .20% .60)

Footage: 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 220, 240, 260

Formation: Js

Type of Rock: sh

Color: red

Probe Depth / Reading / Scale:

THB 1.5 .01

no count

389.5 4.0 .01
390 9.0 .01
391 2.0 .1
392 1.5 .1
393 1.6 .01

no count

397 4.0 .01
398 6.0 .01
399 2.0 .1
400 3.0 .01

no count

409.5 6.5 .01
410 4.0 .01

no count

Scaler Assay: 20, 20, 40, 80, 120, 140, 180, 20

Graphic log: Js, Jr, Je, T.D. 429'

Dotted line Graphic Assay: 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460

Footage 380–420:

Ss brn. f.g. calc

Js / Jr — Sh. green, Ls.

see inset for detailed log

Jr / Je — Tss. mod. brn. gy, streaks of brn. sh, 2 red.
m. gy, r. green

Je — ss. purple gy, f. green, calcar.

TD 429'

core

2' continuous sample

Hole No 3200-2100

Section 29-13-9

Page No. (2)

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Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
3200-2100	29-13-9	3 3	9/19/56	J.A.R.

Footage From	Footage To	Formation	Geology — Description	Samples
			Taylor Rig #7	
391	394	Jt	Ls, m.gray, 50-100% re-xtall, very fractured, fract. filled with calcite, sand and black ore.	
394	404.8	Jt	Ls, m-dk.gray, 20-70% re-xtall, stringers of black shale, aren., some thin lens of sand.	
404.8	405	Jt	Ls, dk. gray, 10% re-xtall, crenulated bedding, argillaceous.	
405	405.7	—	core lost	
405.7	415	Jt	Ls., m-dk. gray, 20-[illegible] re-xtall, thin lens of black shale, aren.	

Drawing No. 793

Dr. M. Dresser
memo 10/24/57

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Hole No.	Sec	Elevation	Page of	Pages	No. Insets	Date	Logged by
1600-2500	29-13-9	6757.48	1	3	1	8/29/56	J.A.R.

Geology

Hannum Rig # 11

Description

Probe | Scaler

Scale Reading | Scaler Interval | Assay Footage

Dotted line - Gamma Assay
Solid line - Probe

0% 20% 60

0 20 40 60 80 100 120 140 160

QAL

JB

JB ?
Js ?

core

Blowsand

JB
JS? sh & ss, red

ss grn, wet

sh red

ss brown, wet

ss. l. gy, f. grain

See inset for detailed log

1600-2500
21-

Hole No.	Sec.	Elevation	Page of Pages	No. Insets	Date	Logged by
1600-2500	29-13-9	6757.48	2 3	1	8/29/56	J.A.R.

Geology — Hannum Rig #11

Footage	Formation	Type of Rock	Color	Description	Diagnostic Features	Geiger	Samples Taken	Probe Depth	Probe Reading	Probe Scale	Scaler Foot Interval	Assay	Graphic log	Description
260	Js	ss.	l.gy, f. grain					THB	1.5	.01				
									No count					Js
	Jt	Ls.	m.gy	see inset for detailed log			core	245	1.8	.01				
								246	4	.01				Jt
								247	2	.01				
								248	3	.01				
280								249	2.5	.01				
20								250	1.0	.01				
								251	7	.01				
								252	7	.01				
								253	6.7	.01				Jt
	Jt / Je	ss.	red, f-grain						No count					Je
								263	6	.01				
								264	6	.01				
300	TD	295'						265	5	.01			TD. 295'	
40								266	1.5	.01				
								267	1	.01				
									No count					
								297						
320														
60														
340														
80														
360														
100														
380														
120														
400														
140														
160														
180														
200														
220														
240														
260														

Dotted line Graphic Assay
Solid Line - Probe
0% .20% .60

Dwg No 192

Hole No. 1600-2500
Section 29-13-9

Inset Sheet

Hole No.	Sec.	Page of Pages	Date	Logged by
1600 - 3500	29-13-9	3 3	8/29/56	J.A.R.

Footage From	Footage To	Formation	Geology: Description	Samples
			Hannum Rill	
250	254	Js	ss, l. gray, f. grain, argill	
254	261	Js	ss, mottled red & l. gray, f. grain.	
261	268.1	Js	ss, l. gray, some red, argill, f grain.	
268.1	268.9	Js	Ls, m. gray, 60 % re-xtall., small much resin(ore?)	
268.9	270	Js	ss, l. gray, f. grain, lenses & streaks of orange red sand, v. calcar, small lenses of Ls.	
270	273	Jh	Ls, m. gray, 50-70 % re-xtall., v. aren. in top 3", v. argill. much red sh & sand [illegible], vert. fract., wavy bedding.	
273	273.8	Jh	Ls, m. gray, 30 % re-xtall, s. aren.	
273.8	275	Jh	Ls, m. gray, " " , s. aren., crenulated bedding, shale between bedding planes.	
275	287.3	Jh	Ls, [illegible] brown-gray, 20-30 % re-xtall, few thin lenses of sh, vertical fract., s. aren.	
287.3	287.8	Jk	ss, [illegible] f. grain.	
287.8	296.3	Jk	ss, mo[illegible] red, orange, & gray, f. grain.	
296.3	295	Jk	ss, red, [illegible] grain.	

Drawing No. 793

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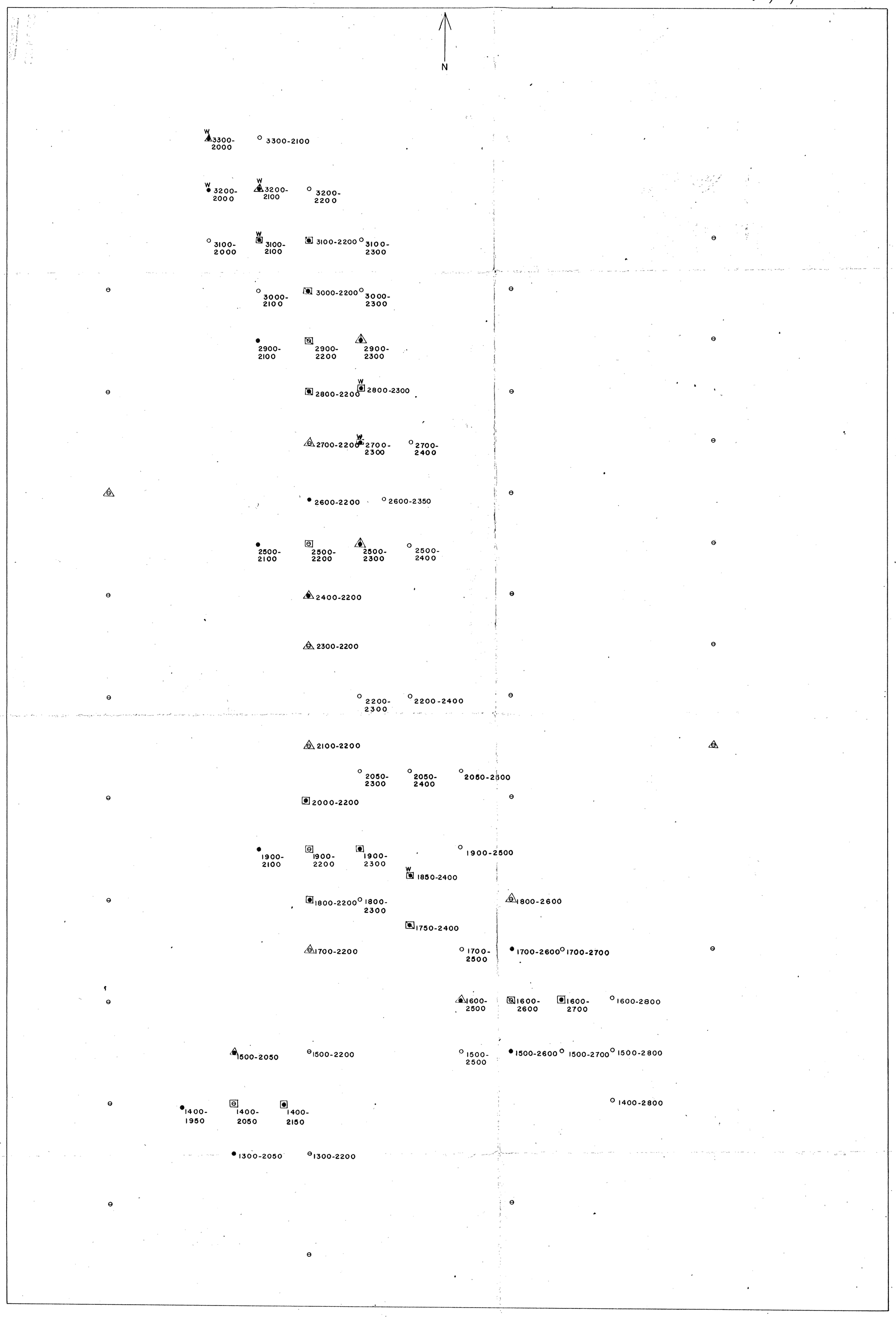
W. M. Grover
memo 10/24/57



LEGEND

- ⊖ FIRST STAGE HOLES
- ● FIRST HALF OF SECOND STAGE HOLES
- ○ PROPOSED HOLES FOR SECOND HALF OF SECOND STAGE
- △ MINERALIZED HOLES
- △ STRONGLY MINERALIZED HOLES
- ▣ ORE GRADE ROCK LESS THAN 7FT. IN THICKNESS
- ▣ ORE GRADE ROCK 7FT. OR MORE IN THICKNESS
- W DESIGNATES WESTVACO FINANCED HOLES

GRANTS URANIUM
WESTVACO MIN. PROD. DIV.
FOOD MACH. & CHEM. CORP.

SECOND HALF OF SECOND STAGE
DRILLING PROPOSAL DMEA 3989
CONTRACT NO. IDM-E933
SECTION 29, T.13N. R.9W.

A. M. Dyson Amount 10/24/56

LEGEND

- Barren Holes
- Mineralized 1st. Stage Holes
- Ore (0.20%) " "
- Re-crystalization Thought to be Associated With Mineralization
- Proposed Second Stage Holes

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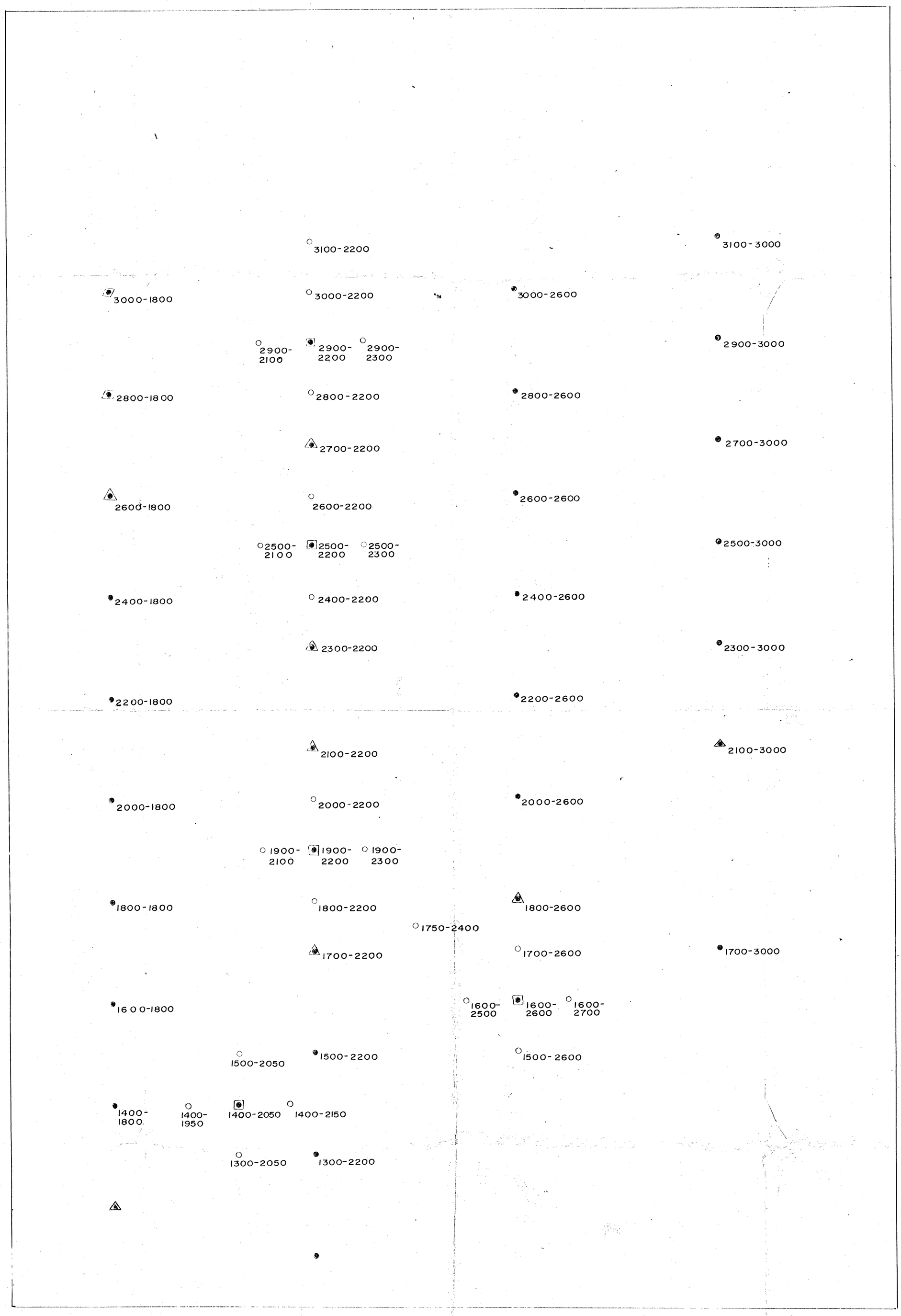
Food Mach. & Chem. Corp.

SECOND STAGE DRILLING PROPOSAL, SEC.29, T13N, R9W.
DRILLED UNDER DMEA DOCKET
3989

Scale 1" = 200'

DRAWING 29-7

W. M. Dunn Reno 9/7/58



LEGEND

- Barren Holes
- Mineralized 1st. Stage Holes
- Ore (0.20%) " " "
- Re-crystalization Thought to be Associated With Mineralization
- Proposed Second Stage Holes

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SECOND STAGE DRILLING PROPOSAL, SEC. 29, T13N, R9W,
TO BE DRILLED UNDER DMEA DOCKET
3989

Scale: 1"=100'
DRAWING 29-7-A