AM-16C Anderson Mine (cont.)
interval 240-335

T.S. Hellinger
4-16-75

308
4" mdstn, gry-buff & buff, distinct convoluting beds, r.c. fracturing filled w/ silica, (general mottled appearance of unit), o. thin irregular stringer carbonaceous material, fossil. ferns throughout
309
310
311 mdstn, blkish-grn-gry, silty
312
313
314
315
9" mdstn, pale grn-wh, waxy on fresh surface, r. buff clay galls
316
317
318
4" mdstn, gry-grn, slightly silty w/ scattered r. buff clay
± 1' of core missing some where in interval between 318'-321' — ?
319
4" sltstn, buff, v. tuffaceous & calcareous
6" mdstn, gry-grn, slightly silty
320
No core - exact interval unknown - see above
321
322
6" mdstn, lt. gry-grn, o. clasts throughout
323
324 mdstn, lt. gry-buff, w/ c. grn & rd clay galls throughout
325 on next page

AM-16C Anderson Mine (cont.)

interval 240' - 335

T.S. Hellinger
4-16-75

325 mdstn, lt. gry-buff, w/ lt. yell-grn waxy min coating fractures

326

327

328 mdstn, gry, slightly silty

329

330

331

332

333 mdstn, olive, slightly waxy w/ btm 2" waxy brn

334

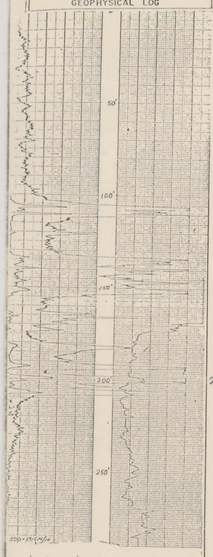
335

PROJECT Anderson Mine Yavapai Co. HOLE SIZE ____ ☑ AIR ☐ WATER HOLE NO. AM-17

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY Ljung DATE 22 FEB 75

SECTION 10 TOWNSHIP 11 N RANGE 10 W T.D. 385' P.D. ____

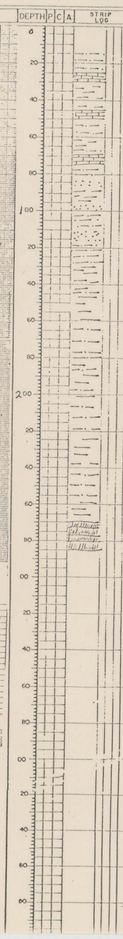
GEOPHYSICAL LOG



MINERALS EXPLORATION CO.

PROJECT NAME Anderson Mine	HOLE NO. AM-17
COUNTY Yavapai STATE Arizona	STARTED 2-21-75
	FINISHED 2-21-75
	SIZE CASING 9 7/8"
	TOTAL DEPTH 385'
	CASING DEPTH 14'
	CASING DIA. 1 5/8"
	CASING WT.
	BOTTOM HOLE DIA.
	DRILLING CO. D. Bennett
	DRILLER Steve
	CONTRACTOR Fenstermaker
	DRILL RIG MAKE 4 x 4
	MODEL DRILL Mk
	REMARKS

DEPTH | P | C | A | STRIP LOG



LITHOLOGY LOG

0-15 Slump

15-25 Siltstone & Clay: brown

25-30 Limestone: wh, platy: similar to that containing fish fossils in sec 16. outcropping on north end of section.

30-45 Clay: brown

45-50 Limestone: brown

50-70 Siltstone & Clay: olive green, somewhat silicified, or brown clay @ 55'

70-75 Limestone: wh, cem or chert

75-115 Siltstone: olive green, rare fe stain @ 85
Clay: olive green
ss: vf grain, abnt mica, qtz, rose, subang, pink, or feld.
Chert: 90-95'

115-130 Siltstone & Clay: olive green, brown

130-135 Clay: red orange, trace blk mineral

135-150 Clay: olive green, silicified siltstn or chert, or clay (Fe stained) wh bentonite, red brn clay, rare yellow bloom @ 150'

150-215 Clay: olive green, red brown, some silicified siltstones.

215-270 Siltstones & Clays: red brown olive green

270-385 Volcanics: red brown

T.D.

①

S. PAVLAK
12/15/75
&
T.S. HELLINGER

7

ANDERSON MINE

AM 17C

FT.	LITH	DESCRIPTION
100		100'-102'2" MUDSTN: LT GY GRN; SLIGHTLY SILTY; MICACEOUS
101		
102		101'11"-102'1" YEL. GRN. MIN PRESENT; LIM/HEM STN.
		102'2"-103'3½" SLTSTN: GY GRN; r. LIM/HEM. STN.
103		103'3½"-104'5" SLTSTN: GY GRN; MUDDY; HEM STN; INDURATED; IRREG. SHAPED MASSES WH. SLTSTN (REWORKED)
104		104'5'-105'4" LIMESTN: WHITE; (SILICIFIED) CHERTIFIED W/ BLK & RED JASPER; SOME LT GRN MUDSTN
105		105'4"-106'8" SLTSTN: GY GRN; SILICIFIED W/ WH-OR. CHALCEDONY.
106		106'8"-108'9" SLTSTN: OLIVE GRN; COM. MICA; r. HEM. STN.
107		
108		

AM-17c

Ft.	Lith.	
176'		
177'		177'-4"–184'1" NO SAMPLES RECOVERED FROM THIS INTERVAL
178'		(Note: ~6" core from w/in this interval of lost core described below w/ thickness of interval only – true depth & total thickness unknown
179'		3" Basalt(?), black, w/ abund vesicles containing or. min.
180'		3" mudstone, gry & maroon, slightly silty, w/c. thin irreg. masses of wh Calky Clay, slightly calcareous
181'		
182'		
183'		
184'		184'–185'6" mdstn, red & gry-grn, red color as irreg. masses, slightly calcareous

AM-17C

Ft | Lith

185'

as marked on box (but this is not correct on box)

185'6" - 188 mdstn, gry, lt. olive, & buff, rel. incompetent, w/ last two colors as irreg. masses, v. micaceous throughout, v. slightly calcareous

186'

_____? in correct footage on core boxes after lost core interval after 177'4" ??? _____

187'

188'

189'

190' 190-191 sltstn, gry-buff, extremely bentonitic, c.-abund. mica, slightly calcareous, rel. incompetent

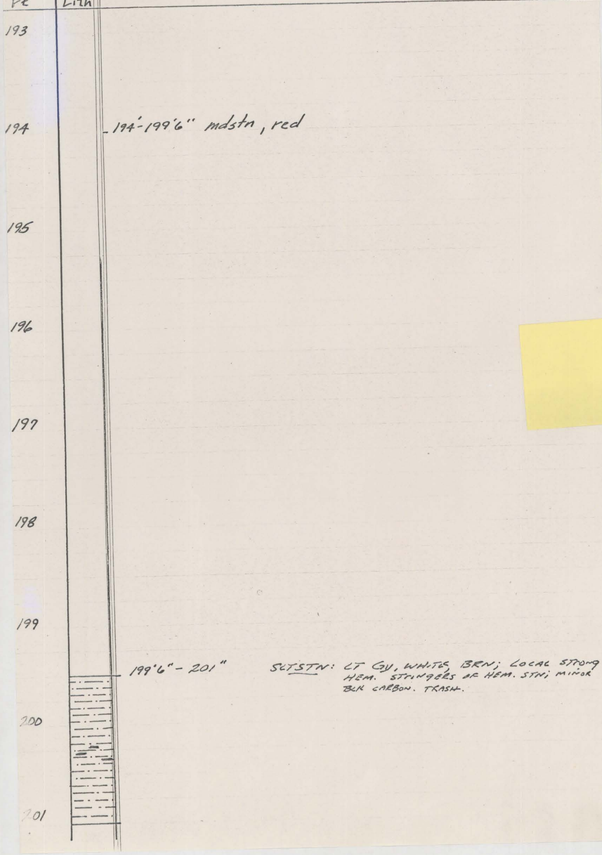
191' 191'-192'3" mdstn, lt. gry-grn, micaceous, slightly silty, w/ tr. minor red stringers

192'

192'3" - 194' mdstn, or, w/ interbed red stringers increasing w/ depth

AM-17c

Ft	Lith	
193		
194		194'-199'6" mdstn, red
195		
196		
197		
198		
199		
		199'6" - 201" SLTSTN: LT GY, WHITE, BRN; LOCAL STRONG HEM. STRINGERS OF HEM. STN; MINOR BLK CARBON. TRASH.
200		
201		



AM 17C

FT	LITH	DESCRIPTION
201		201'- 203' 9" MUDSTN: LT OLIVE GRN; SLIGHTLY SILTY; LOCAL HEM. STN.
202		
203		
204		203' 9"- 205' 2" MUDSTN: LT GY GRN- OR BRN; SILTY HORIZONS; RED HEM. & OR LIM STNS // STRATIFICATION.
205		205' 2"- 208' MUDSTN- SLTSTN: LT GY - LT GY GRN; MINOR DISSEM. MASSES MN; IRREG SHAPED MASSES YELLOWISH WH. MUDSTN; IRREG SHAPED HEM STNED AREAS GRNISH-
206		NOTE: PART OF SAMPL (~ 205' 6') IN BAGS & BROKEN)
207		
208		208'- 215' SLTSTN: RED BRN; MASSIVE; SANDY; GRNS HEM STNED; IRREG SHAPED MASSES STRONG HEM STN W/ ASSOC. MN.
209		

(14)

12/21/75

AM 17C

FT.	LITH.	DESCRIPTION
209		
210		
211		
212		
213		
214		
215		END OF CORE.

AM 17C

FT.	LITH	DESCRIPTION
108		
		108'9" – 111'4" MUDSTN: LT GY GRN; SLIGHTLY SILTY; SCATTERED IRREG MASSES BLK CARBON. MATTER.
109		
110		
111		111'4"–112'6" SLTSTN: GY – LT OLIVE GY GRN; MUDDY.
112		
		112'6"–115'9" sltstn, gry-grn, v. muddy w/ c. scattered blk. Carbonaceous fragments.
113		
114		
115		
		115'9" – 117' sltstn, gry, c.-r. bentonite, w/ r. knots & stringers of Calcareny &/or gtz
116		

T.S. Hellinger

AM-17C

Ft.	Lith	
117'		– 117'–121' s/ltstn, gry to gry-grn, w/ scattered wh & lt. grn knots of clay & gtz, generally this unit is v. muddy or tuffaceous bentonitic & v. minor tr. small black carbonaceous fragments (note: this unit is almost a mdstn)
118		
119		
120		
121		– 121'–123'6" mdstn, dark olive-gry, v. waxy (due to bentonite), v. minor tr. wh gtz-clay knots
122		
123		
		– 123'6" core broken & in bags, each containing ~6" of core & numbered, 7 bags to 128'5"
124		

AM-17C

Ft.	Lith	
125'		124'9" - 126' mdstn, olive-gry & wh, w/ tr. small blk. carb. frag. (Note: exact footage from units described from bag suspect)
126'		126' - 130'3" mdstn, grn to grn-gry w/ tr. lt. yellow grn clay knots, also r.-c. scattered v. small blk carbonaceous fragments, also scattered tr. rd & pnksh-brn clay partings on broken surfaces of core
127'		
128'		
129'		
130'		130'3" - mdstn, lt. olive-grn w/ abundant thin irregular red partings - giving an overall mottled appearance to the mdstn, also tr. blk. carbonaceous, dilute HCl produces sharp pungent vapor (CO_2?) ∴ abund. calcite cement,
131'		- red color increases w/ depth, from 133'-133'6" red color comprises ~50% of mdstn, v. irregular zone (definite mottling?), also an increase in abund. of black carbonaceous mat. w/ increased depth
132'		
133'		

AM-17c

Ft.	Lith
	133'6"-134'3" mdstn, olive-grn, w/ r-c. mottled pale grn & red mdstn, rel. incompetent & partially fractured, also c. sooty blk wad (MnO_2) @ btm well developed dendrites
134'	134'3"-135' mdstn, lt. olive-grn, v. waxy appearance & texture, slightly calcareous, extremely minor tr. blk MnO_2 (wad) fragments
135'	135'-135'6" mdstn, gry, slightly silty w/ minor rare small blk. wad frag.
	135'6"-137'9" mdstn, grn-gry, w/ abund. clear, wh, rd, & brn jasper, common scattered frag. blk. wad, tr. canary yell. min (uraniferous)
136'	assoc. w/ chert & wad, slightly calcareous, also abund. wh clay
137'	
	137'9"-138'3" mdstn, lt. gry, w/ abund. wh clay frag. & r. wh chert, slightly calcareous
138'	138'3"-139'-4" mdstn, gry-grn, w/ abund irregular red-brn blebs of jasper or chert, minor tr. canary yell. uranif. mineral, scattered blk. blebs wad, slightly calcareous — general appearance v. distinctive w/ dark. brush-red spots (spotted mdstn) 1/8"-1/2" dia. spots
139'	139'8"-140'3" mdstn, lt. gry-grn, w/ abund-common small brush-red chert blebs (1/16"-1/4" dia.), silicified, w/ r.-tr. canary yell. uranif. min. as smears on fractures & discrete blebs ~~assoc. w/~~ on chert & mdstn
140'	140'3"-144'6" sltstn, gry, v. muddy, calcareous, v. competent, tr. qtz., felds, btte, wad?, also tr. scatted blebs ~~bedded~~ canary yell. min & assoc. grn. uranif. min.
141'	

AM-17C

142'

143'

144'

144'6" - 146' mdstn, gry, silicified, slightly calcareous, w/ r. rd & buff qtz stringers, v. minor tr. yell & grn blebs uraniferous min.

145'

146' 146'-148' mdstn-sltstn, gry, v. mddy, slightly calcareous, w/ r. frag. & blebs of wh clay

147'

148' 148-151'3" mdstn, gry-grn & brnsh-rd, esp. mottled rd. @ 149'-149'6", r. red chart, tr-r. wood, r.-c. yell & grn blebs uraniferous minerals (esp. common in red zones), slightly calcareous & silicified

149'

150'

(7)

AM-17C

ft.	Lith	
151		151'3" - 153'6" mdstn, grn-gry, rel. incompetent, w/c. abund. frag & blebs of wh clay & r. rd. chert frag., slightly calcareous
152		
153		153'6" - 155' mdstn, gry & maroon, interbedded, w/ tr. scattered 1/8" - 1/16" blebs wad, slightly calcareous w/ tr. chert blebs
154		
155		155' - 159'9" siltstn, gry-grn, v. muddy, w/ r. - c. scattered 1/8" dia. blebs wad, slightly calcareous, v. minor tr. yell. uranif. min. blebs.
156		
157		
158'		

(D)

AM-19C

Ft.	Lith.	
159'		
		159'9" - 163'3" mdstn, gry w/ c.-abund red blebs & stringers as v. irregular masses, also c. blk. "min" frag. (btte & carbon. trash?)
160'		
161'		
162'		
163'		163'3" - 165'9" mdstn, red w/ minor gry-grn zones, calcareous, v. slightly silty; also common wh clay blebs
164'		
165'		
		165'9" - 169'6" mdstn, gry-grn, w/ r-c. red stringers & irreg. blebs scattered throughout unit, v. silty, slightly calcareous
166'		
169'		

AM-17c

Ft.	Lith
168	
169	169'6"-172 mdstn, gry-grn, slightly calcareous,
170	
171	
172	172'-174' mdstn, lt. olive-grn w/ c. irreg. red, maroon, & yell-buff stringers throughout, calcareous & slightly silicified, small blebs of yell. uranif. Min. assoc. w/ altered mdstn masses
173	
174	174-177'4" mdstn & sltstn, lt. grn, gry, & red, interbedded w/ r-c. red chert, slightly calcareous, v. micaceous, competent to v. incompetent
175	

PROJECT *Anderson Mine Yavapai Co.* HOLE SIZE ______ ☑ AIR ☐ WATER **HOLE NO.** *AM-18*

ELEVATION ______ NORTH *Arizona* EAST ______ LOGGED BY *Ljung* DATE *22 FEB '75*

SECTION *10* TOWNSHIP *11N* RANGE *10 W* T.D. ______ P.D. ______

driller = Universal Roberts

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG

Depth	Lithology
0-95	SS: orange; f grain (0-10 c grain); rounded; arkosic; com or Fe stain; com mica; com cementing
	Siltstone & mudstone stringers: orange, buff; stringers increase in abnt toward bottom of section.
95-100	Siltstone: orange
100-110	SS: or; f grain; rounded; arkosic; abnt Fe stain; com mica
	Mudstone: orange
110-115	Mudstone: buff, orange
115-220	SS, Siltstone, Mudstone interbedded:
	SS: vf grain to c grain, com to abnt lim stain, abnt. bio. & musc.
	130-160' com c grain rock frgts rounded to subangl
	Siltstone: ornge to buff
	Mudstone: " " "
	SS: 200-220, predom f grain
220-235	Siltstone: buff, tan, or
	Mudstone: " " "
235-270	SS: orange; f grain; com bio & musc; round to subangl; com lim stn; qtzose; com or feld & rock frgts
	Siltstone & Mudstone: orange, buff
	225-270 Possibly contaminated
270-275	Siltstone: green, silicified
275-285	Clay: green, scattered blk carbon siltstn.
285-290	Clay: black
290-310	Siltstone: blk, limy, abnt sooty carbon mtrial.
	Limestone stringers: brown. (contamination)
310-375	Olive green siltstone?
	abnt ss & green clay contamination from up hole
375-395	SS: buff, f grain; qtzose; subround; com lim stain,
	possibly sluff from up hole
395-405	Volcanic Rock frgts

Relog

Note! Uppersand contaminated hole 200' -> T.D.

Rotary air drilled
Abnt H_2O 150' - T.D.

Probe hung at 280'
280'-TD swelling and/or sluffing

Drilled 0-300' Friday
300'-405' Wed. } 4 day break

MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. *AM-18*

LOCATION	*ANDERSON MINE*	GAMMA SCALE	*500*
COUNTY	*YAVAPAI* STATE *ARIZONA*	PROBE TYPE	*SCINT*
GP.	ELEV.	K FACTOR	*2.31 X10⁻⁵*
SEC. *10*	TWP *11N* RGE *10W*	DEAD TIME	*9.6 USEC*
DATE	*2-21-75*	TIME CONSTANT	*1*
DEPTH DRILLED	*405'*	PROBE DIA	*1 9/16"*
DEPTH LOGGED	*402'*	CALIPER	–
FOOTAGE LOGGED	*437'*	DIRECTIONAL SURVEY	–
HOLE DIAMETER	*4 7/8"*	TEMPERATURE	–
WATER FACTOR		OPERATOR	*D. BRADLEY*
RESISTIVITY	*10* OHMS/INCH	DRILLER	*STEVE*
SELF POTENTIAL	– MV/FT	CONTRACTOR	*UNIVERSAL*
REPEAT	1ST RUN / 2ND RUN / 3RD RUN	LAST A.B.C. PIT RUN	*11-4-74*
BOTTOM	*360'*	FLUID LEVEL	*123'*
TOP	*280'*	REMARKS	
TOTAL FEET	*30'*		
SCALE RUN	*5K*		

①

S. PAVLAK
12/15/75

ANDERSON MINE

?

AM 18 C

FT.	LITH	DESCRIPTION
270		270'-270'2" LIMESTN: LT BRN; MED GRN; MINOR LIM. STN.
		270'2"-270'10½" SLTSTN: OLIVE GRN; WEAK $CaCO_3$ CEMENT; ABNT WH. MICA; BLK MIN. IN FRACTURES.
		270'10½"-271'1" MUDSTN: OLIVE GRN; MINOR LIM. STN.
		271'1"-271'2" SLTSTN: LT GY GRN; $CaCO_3$ CEMENT
271		271'2"-272'1" MUDSTN: OLIVE GRN; STRONG LIMONITE STNS; MINOR BLK FRACTURE FILLING MINERAL. MINOR SCATTERED ORGANIC TRASH.
		271'9"-272' MINOR BLK CARBONACEOUS STRINGERS
272		272'1"-272'5" SLTSTN: LT GY GRN TO GY WH; MINOR LIM. STN.
		272'5"-273'4" MUDSTN: LT GY AND OLIVE GRN INTBDS.; MINOR LIM STN.
273		273'4"-278'5" MUDSTN: DK. OLIVE GY; LIM. STN. COMMONLY ON FRACTURE. LOCAL STRONG HEM. STN. @ 275', 276'5"
274		
275		
276		
277		
278		

AM 18 C

FT.	LITH.	DESCRIPTION
278		278' 5"- 279' 6½" SLTSTN: RED BRN; COM. THIN BLK ORGANIC RICH PARTINGS; STRONG REACTION W/ CaCO3
279		279' 6½"- 279' 9½" LIGNITE: BLK; NO REACTION WITH HCL
		279' 9½"- 281' 3" SLTSTN: RED BRN; THIN ORGANIC RICH PARTINGS; STRONG REACTION WITH HCL.
280		
281		281' 3"- 282' SLTSTN, MUDSTN, LIGNITE; INTBD BRN TO GY BRN SLTSTN, LIGNITE, BLK ORGANIC RICH MUDSTN
		281' 10" INVERTEBRATE FOSSIL SHELL HASH
282		282'- 282' 9" LIGNITE; BLK; INTBD BLK MUDSTN & GY BRN MUDSTN
		282' 9"- 283' 5" SLTSTN- MUDSTN: RED BRN; THIN ORGANIC-RICH PARTINGS; STRONG REACTION WITH HCL.
283		283' 5"- 283' 9" SLTSTN & LIGNITE; THINLY INTBD GY BRN SLTSTN & BLK LIGNITE
		283' 9"- 284' MUDSTN: BLUE GRN; FISSILIFERUS; THIN ORGANIC RICH PARTINGS
284		284'- 284' 9" SLTSTN- MUDSTN: OLIVE BRN; HIGHLY FOSSILIFERUS (GASTROPODS, BIVALVES); SOME ORGANIC MATTER; STRONG REACTION WITH HCL.
		284' 9"- 285' LIGNITE; BLK W/ GY BRN FOSSIL. SLTSTN AT TOP & BT.
285		285'- 285' 5" SLTSTN: GY BRN; INVERTEBRATE FOSSIL HASH; THIN BLK ORGANIC PARTINGS; STRONG REACT W/ HCL.
		285' 5"- 285' 11" SLTSTN & LIGNITE: INTBD GYISH BRN SLTST & BLK LIGNITE INVERT. FOSSILS COMMON IN SLTSTN.
		285' 11"- 286' 9" LIGNITE: BLK
286		

AM 18C

FT.	LITH.	DESCRIPTION
286		
		286'9"–286'11" SLTSTN: BRN; SOME INVERT. FOSSIL HASH; REACT W/ HCl
287		286'11"–287'½" LIGNITE: BLK.
		287'½"–288' LMSTN: BRN; SILTY; FOSSIL HASH; FEW ORGANIC PARTINGS.
288		288'–289'7" LIGNITE: BLK.
289		
		289'7"–290'5" SLTSTN–MUDSTN: GY GRN TO BLUE GY; SOME BLK ORGANIC MATER; REACT W/ CaCO3 SCATTERED INVERT. FOSSIL SHELLS
290		
		290'5"–293' MUDSTN: BLUE GY; SCATTERED LAM NSH/LIM. STKS. AT TOP. ETCHED REACT WITH HCl; FEW BLK ORGANIC RICH PARTINGS
291		
292		
293		293'–293'8" SLTSTN; LT BRN; FEW BLUE GY MUDSTN PARTINGS; WELL CEMENTED W/ CaCO3
		293'8"–294'1" MUDSTN: BLUE GY
294		

AM 18C

FT.	LITH.	DESCRIPTION
294		294'1"–294'4" SLTSTN: BRN; BLK organic rich partings
		294'4"–294'10" LIGNITE: BLK; intbd BRN SLTSTN.
		294'10"–295'3" SLTSTN: BRN; well cemented w/ $CaCO_3$; abnt invert. fossil hash
295		295'3"–296'5" SLTSTN & LIGNITE: thinly intbd BLK LIGNITE & BRN well cemented SLTSTN; invert. fossil shells.
296		296'5"–297'11" LIGNITE: BLK
297		
298		297'11"–299'9" SLTSTN: Gy; thin BLK organic partings; well cemented with $CaCO_3$; abn irregular shaped wh-Gy $CaCO_3$ masses.
299		
		299'9'–301',1" SLTSTN: Gy; no react w/ HCl.
300		
301		301',1"–301'3" MUDSTN: Gy GRN;
		301'3"–303'7" NO CORE SAMPLES
301		(NOTE: SMALL BROKEN CORE SAMPLE THAT WAS RECOVERED WAS LT GRN MUDSTN.)

(5)

AM 18C

FT.	LITH.	DESCRIPTION
302		301'3"–303'7" NO CORE SAMPLES
303		303'7'–315'5" SLTSTN: Gy GRN (To OLIVE GRN); MUDDY; SCATTERED LIM/HEM BLEBS 307'–307'6." LT Gy SLTSTN 307'10"–308'
304		
305		
306		
307		
308		
309		
310		

AM 18C

FT.	LITH	DESCRIPTION
310		
311		
312		
313		
314		
315		315'-315'5" COM. HEM/LIM STN
		315'5"-315'8" MUDSTN: DK OLIVE GRN; HEM STN.
316		315'8"-320'4" SLTSTN: OLIVE GRN TO BY GRN; MAPE-COM LIM/HEM STN 315'8"-316'9", 317'9"-320'4"
317		
318		

(2)

AM 18C

FT	LITH	DESCRIPTION
318		
319		
320		
		← BOTTOM OF CORE
321		

PROJECT Anderson Mine Yavapai Co. Ariz HOLE SIZE ______ ☑ AIR ☐ WATER HOLE NO. AM-19

ELEVATION ______ NORTH ______ EAST ______ LOGGED BY Lying DATE 20 FEB 1975

SECTION 10 TOWNSHIP 11 N RANGE 10 W T.D. 315' P.D. ______

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG

Depth	Lithology
0-20	SS, Siltstone, Mudstone: SS: ornge brown, f grain, com musc. ē biotite, com or feld, com rock frgts, rounded. Silt & mudstone: or brown
20-30	Siltstone & bentonitic clay: grey to grey green; trace carbon material 20-25'
30-35	Clay: olive green
35-45	olive green silicified siltstone; chert; limestone.
45-65	wh limestone; chert; olive green silicified silts; wh bentonite; or chert 60-65'
65-75	Olive green clay; trace black carbon material
75-80	grey limy clay
80-85	yel green silicified siltstone
85-90	grey clay; wh limestone
90-95	wh limestone; olive green siltstone
95-100	olive green siltstone; or chert
100-110	wh limestone; wh bentonitic clay; green ch
110-125	yel green Siltstone; wh bentonitic clay; or ch; wh limestone; green clay, buff limestone
125-130	blk carbonaceous siltstone; brown clay; Hydrocarbon odor on contact w/ Hcl
130-135	grey clay - limy; rare carbon material
135-145	black carbonaceous Siltstone; not limy; green silicified siltstone.
145-155	Blue green clay, buff limestn, blk carbon, limy siltstn, Hydrocarbon odor on contact w/ Hc
155-185	Black clay; com blk siltstn; carbonaceous; minor brown clay; trace green clay
185-200	Green clay
200-215	Olive green clay
215-245	yellow green siltstone
245-250	Black clay
250-260	Olive green clay
260-270	dark green clay & siltstone; w/ trace carbon material
270-280	SS: green brown; f grain; qtzare; com pink rock frgts; rounded; abnt mica (bio + m
280-285	Dark green siltstone w/ com carbon materia
285-315	Volcanic Rock frgts: red brown, dark brow

NOTE! Rotary drilled

Hole made large quantities of H_2O 155'-315'

Samples 155-170 are suspec

Samples collected:
0'-100' in 10' interv
100'-155 " 5' "

MINERALS EXPLORATION CO.

CASPER, WYOMING

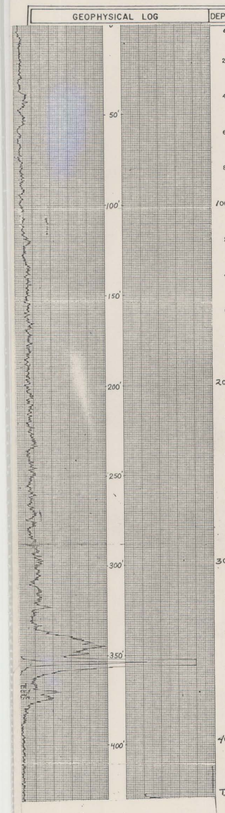
LOCATION	ANDERSON MINE	HOLE NO.	AM-19
COUNTY	YAVAPAI STATE ARIZONA	GAMMA SCALE	500
GP.	ELEV. 1798'	PROBE TYPE	SCINT
SEC. 10 TWP. 11N RGE. 10W		K-FACTOR	2.31×10^{-5}
DATE	2-20-75	DEAD TIME	9.6 uSEC
DEPTH DRILLED	310'	TIME CONSTANT	1
DEPTH LOGGED	315'	PROBE DIA.	1 7/16"
FOOTAGE LOGGED	525'	CALIPER	—
HOLE DIAMETER	4 7/8"	DIRECTIONAL SURVEY	—
WATER FACTOR		TEMPERATURE	—
RESISTIVITY	10 OHMS/INCH	OPERATOR	D BRADLEY
SELF POTENTIAL	— MV/IN	DRILLER	STEVE
		CONTRACTOR	UNIVERSAL
		LAST A.S.C. MT RUN	11-4-74
		FLUID LEVEL	142'
		REMARKS	

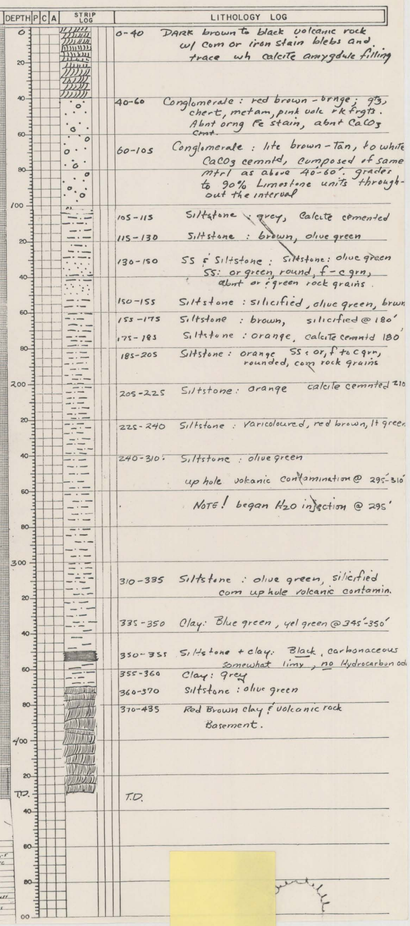
LOGGING	1ST RUN	2ND RUN	3RD RUN
BOTTOM	290'	180'	
TOP	240'	120'	
TOTAL FEET	50'	60'	
SCALE RUN	10K	10K	

PROJECT Andersen Mine Yavapai Co. HOLE SIZE 6, 5½" ☑ AIR ☑ WATER HOLE NO. AM - 20

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY JRJ. DATE 24 FEB '75

SECTION 10 TOWNSHIP 11N RANGE 10W T.D. 435' P.D. 437'





LITHOLOGY LOG

0-40 DARK brown to black volcanic rock w/ com or iron stain blebs and trace wh calcite amygdule filling

40-60 Conglomerate : red brown - orange; qtz, chert, metam, pink volc frkfrgts. Abnt orng fe stain, abnt CaCO3 cmt.

60-105 Conglomerate : lite brown - tan, to white CaCO3 cemntd, composed of same mtrl as above 40-60'. grades to 90% Limestone units throughout the interval

105-113 Siltstone : grey, Calcite cemented

115-130 Siltstone : brown, olive green

130-150 SS & Siltstone : Siltstone: olive green SS: or green, round, f-c grn, abnt or f green rock grains.

150-155 Siltstone : silicified, olive green, brwn

153-175 Siltstone : brown, silicified @ 180'

175-183 Siltstone : orange, calcite cemntd 180'

183-205 Siltstone : orange SS: or, f to C grn, rounded, com rock grains

205-225 Siltstone : orange calcite cemented 215

225-240 Siltstone : Varicoloured, red brown, lt green

240-310 Siltstone : olive green

up hole volcanic contamination @ 295'-310'

NOTE! began H_2O injection @ 295'

310-335 Siltstone : olive green, silicified com up hole volcanic contamin.

335-350 Clay: Blue green, yel green @ 345'-350'

350-351 Siltstone + clay: Black, carbonaceous somewhat limy, no Hydrocarbon odor

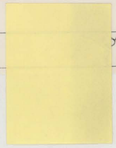
355-360 Clay: Grey

360-370 Siltstone : olive green

370-435 Red Brown clay & volcanic rock Basement.

T.D.

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSON MINE	HOLE NO. AM-20
COUNTY YAVAPAI STATE ARIZONA	CASING SIZE 6"
ELEV. REV.	CASING TYPE STEEL
	CASING WT. 18.97 #
	CASING TEST 1 CLASS
	CASING CEMENT
	CASING SET 435'
	CASING
	CASING HEAD
	DRILLING RIG
	DRILLING CONTRACTOR
	DRILLER D. GRANGET
	HELPER GIL
	CONTRACTOR ANDERSON
	DATE HOLE WAS DRILLED 2-7-75
	LOGGED BY JRJ
	LOGGED DATE 2-24-75