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MINERALS EXPLORATION CO.

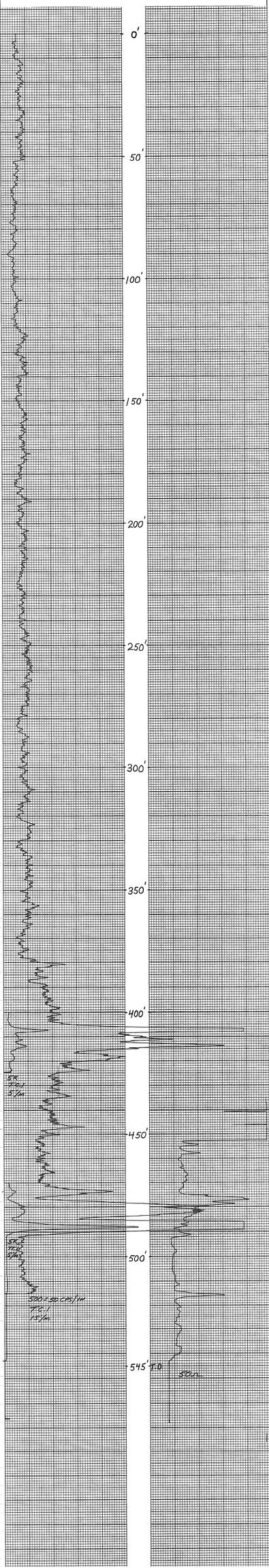
CASPER, WYOMING

HOLE NO. AM-58

LOCATION	ANDERSEN MINE 1205-266.30 N 83 921.70 E	GAMMA SCALE	500-50CPS/IN
COUNTY	YAVAPAI	PROBE TYPE	SCINT.
STATE	ARIZONA	K-FACTOR	2.25×10^{-5}
GP.	~~1,222,797 N 637,587 E~~	DEAD TIME	9.6 USEC
ELEV.	1883	TIME CONSTANT	1
SEC.	TWP. 11N RGE. 10W	PROBE DIA.	1 11/16"
DATE	12-6-75	CALIPER	—
DEPTH DRILLED	535'	DIRECTIONAL SURVEY	—
DEPTH LOGGED	545'	TEMPERATURE	—
FOOTAGE LOGGED	600'	OPERATOR	D. BRADLEY
HOLE DIAMETER	(0-80 6¼) (80'-535' 5⅞)	DRILLER	STAN
WATER FACTOR	1.196 1.192	CONTRACTOR	REID
RESISTIVITY	10 OHMS/INCH	LAST A.E.C. PIT RUN	11-4-75
SELF POTENTIAL	— M.V./IN.	FLUID LEVEL	453'

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	500'	422'	
TOP	470'	400'	
TOTAL FEET	30	25'	
SCALE RUN	5K	5K	

REMARKS:
MAD TD WASHOUT HOLE
STAND FROM 480 TO 545'



MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE 1204 867.39N 83 915.526	HOLE NO.	AM-59
COUNTY	YAVAPAI	STATE	ARIZONA
GR.	1,200,000 N 631,588 E	ELEV.	1899
SEC.	TWP. 11N	RGE.	10W
DATE	12-7-75		
DEPTH DRILLED	570'		
DEPTH LOGGED	568'		
FOOTAGE LOGGED	652'		
HOLE DIAMETER	(0-140' 6 1/8")	(140'-570' 5 7/8")	
WATER FACTOR	1.196	1.177	
RESISTIVITY	10	OHMS/INCH	
SELF POTENTIAL	—	M.V./IN.	

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	525'		
TOP	440'		
TOTAL FEET	85'		
SCALE RUN	5K		

GAMMA SCALE	500=50 CPS/IN.
PROBE TYPE	SCINT
K-FACTOR	2.25×10^{-5}
DEAD TIME	9.6 μSEC
TIME CONSTANT	1
PROBE DIA.	1 9/16"
CALIPER	—
DIRECTIONAL SURVEY	—
TEMPERATURE	—
OPERATOR	D. BRADLEY
DRILLER	STAN
CONTRACTOR	REID
LAST A.E.C. PIT RUN	11-1-75
FLUID LEVEL	389'
REMARKS:	

MINERALS EXPLORATION CO.

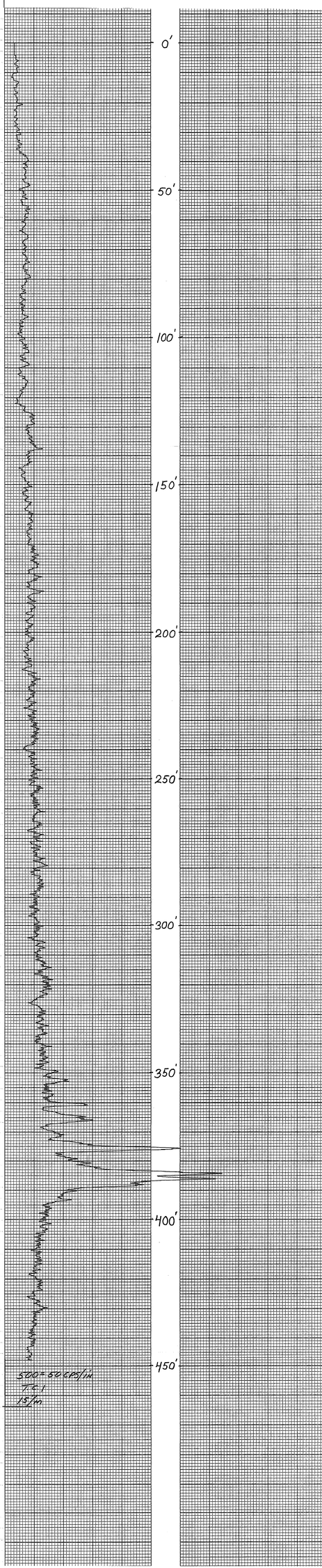
CASPER, WYOMING

HOLE NO. AM-60

LOCATION	ANDERSEN MINE 1206 811.04N 82 837.28E	GAMMA SCALE	500=50 CPS/IN
		PROBE TYPE	SCINT
COUNTY	YAVAPAI	STATE	ARIZONA
		K-FACTOR	2.25×10^{-5}
GP.	~~1204,322N~~ ~~636,975E~~	ELEV.	2073
		DEAD TIME	9.6 μSEC
		TIME CONSTANT	1
SEC.	TWP. 11N RGE. 10W	PROBE DIA.	1 11/16"
DATE	12-6-75	CALIPER	—
DEPTH DRILLED	460'	DIRECTIONAL SURVEY	—
DEPTH LOGGED	448'	TEMPERATURE	—
FOOTAGE LOGGED	448'	OPERATOR	D. BRADLEY
HOLE DIAMETER	(0-120' 6 1/8) (120'-460' 5 5/8")	DRILLER	SHARPE
WATER FACTOR		CONTRACTOR	REID
RESISTIVITY	— OHMS/INCH	LAST A.E.C. PIT RUN	11-1-75
SELF POTENTIAL	— M.V./IN.	FLUID LEVEL	DRY

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM			
TOP			
TOTAL FEET			
SCALE RUN			

REMARKS:



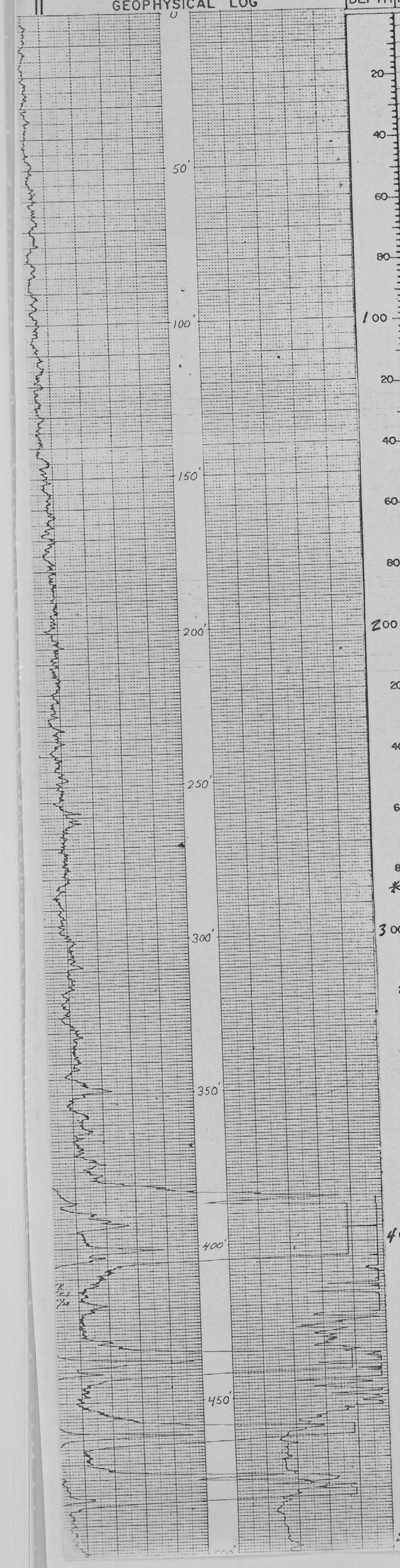
PROJECT ANDERSON MINE HOLE SIZE ____ ☐ AIR ☐ WATER HOLE NO. AM-51

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY DBD DATE 12-6-75

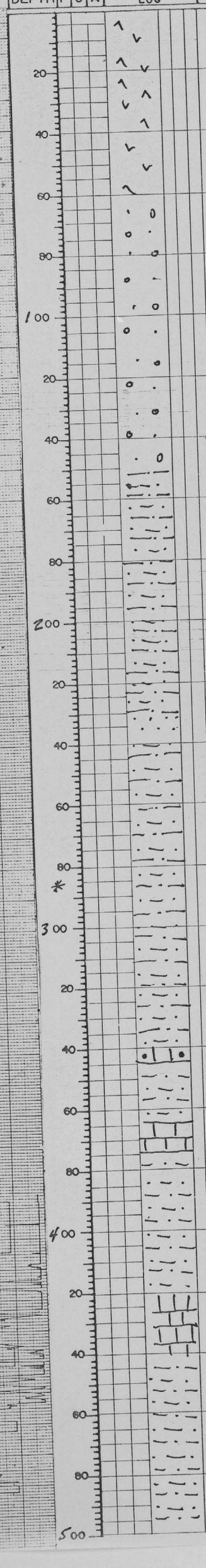
SECTION 10 TOWNSHIP 11N RANGE 10W T.D. 515 P.D. ____

* foam

GEOPHYSICAL LOG



DEPTH | P | C | A | STRIP LOG



LITHOLOGY LOG

0-55 dk gy-blk volcanics

55-65 light pink paleosoil of conglomeratic composition (see conglomerate below) - contains abundant hemititic stained material

65-145 calcite cemented conglomerate composed of qtz, feldspars, volcanic debris

AM51

145-160 lt-brn siltstone

160-165 thin lignitic siltstone

165-180 - lt. brn. siltstone

180-250 reddish brn siltstone

230-235 c.g. reddish ss - angular frags of qtz feldspr. and mafics. mod-abundant ferromate staining

mod hemitite staining

250-340 med brn siltstone w/ bentonite

260-265 - lt brn-grn siltstone

CASPER, WYOMING HOLE NO. AM-51

LOCATION ANDERSEN MINE

COUNTY YAVAPAI STATE ARIZONA

GP. 1,262,802 N 639,197 E ELEV. 1908

SEC ~~TWP~~ TWP 11N ~~RGE~~ RGE 10W

DATE 12-5-75

DEPTH DRILLED 520'

DEPTH LOGGED 512'

FOOTAGE LOGGED 607'

HOLE DIAMETER 10-160' 6 1/8" (160-520' 5 5/8")

WATER FACTOR 1.196 1.177

RESISTIVITY 10 OHMS INCH

SELF POTENTIAL - M.V./IN

RERUNS	1ST RUN	2ND RUN	3RD RUN
BOTTOM	490'	410'	
TOP	430'	395'	
TOTAL FEET	60'	35'	
SCALE RUN	10K	5K	

GAMMA SCALE 500=50 CPS/IN

PROBE TYPE SCINT

K-FACTOR 2.25 X10^-5

DEAD TIME 9.6 μSEC.

TIME CONSTANT 1

PROBE DIA. 1 1/16"

CALIPER -

DIRECTIONAL SURVEY -

TEMPERATURE -

OPERATOR D. BRADLEY

DRILLER SHARPE

CONTRACTOR REID

LAST A.E.C. PIT RUN 11-1-75

FLUID LEVEL 453' ?

REMARKS

340-345 white ls w/ dendritic patterns. tr. chert.

348-365 - brn-grn siltstone

365-375 - lt. gry-grn ls w/ chert?

375-405 - gry-grn siltstone w/ bentonite blebs. Occasional thin red shales are mixed with the grn siltstones.

405-415 blk, hard, lignitic shale w/ bentonite inclusions

415-420 gry grn siltstone

420-440 sandy ls - ~~not~~ tr. ~~usual~~ chert. is lt. tan-grn in color

440-460 hard, blk lignitic shale w/ olive grn siltstone some bentonite nodules.

460-490 lignitic siltstone & gry-grn siltstone

490-515 red shales and volcanic material - basement

Project Anderson Mine Hole No 51-C Logged By G. M.

Depth	Strip Log	
377 .0		mudstone - green → grey green, calcareous
.3		mudstone probably montmorillinite, tr. pyrite (anhedral)
6		tr. hornblend, calcite, tr. biotite, no carbon
9		mudstone is reduced
378 0		
3		limestone - crystaline - buff → ltgrey → greywhite
6		mg. O_2 dendrites and fracture filling, SiO_2 fracture filling, general silicification of ls. as well
9		as dolomitization from the mg., relatively non-reactive w/ hcl., much bentonite present
379 0		homogeneously in ls. . Amnt of bentonite
3		increases from top (90% @ 378'3") → 60% @ 381'3"
6		tr. muscovite, tr. biotite, tr black accessory min (hornblende)
9		slicks present on some partings (striations) also jasperoid
380 0		silica present in partings
3		hardness is about 5
6		
9		
381 0		
3		Frm becomes limey marl stone because of
6		increase in bentonite (montmorillinite) content. mineralog. same as above otherwise. increase in clay
9		content has decreased hardness to about 4
382 0		
3		Transition between rock types is gradational
6		
9		Frm. becomes limey claystone at this point
383 0		clay primarily bentonite (montmorillinite) tr. biotite & muscovite, tr. sericite, silica (SiO_2) in parting plan
3		black accessory min, may be carbon slightly
		calcareous grey buff → olive green hardness 3

Project Anderson Mine Hole No. 51-C Logged by G M

Depth	Strip Log	
383 6"		mudstone grey buff → greygreen, as above 1-5% muscovite
9"		and biotite non calcareous much sericite hardness 1→2
384 0		
3		
6		
9		
385 0		color darkens to olive green → green buff
3		much sericite (1-2 %)
6		
9		
386 0		
3		
6		
9		
387 0		
3		
6		rest of section same
9		
388 0		
3		
6		
9		
389 0		
3		
6		
9		
390 -		

Project Anderson Mine Hole No. 51-C Logged By G. M.

Depth	Strip Log	
390 0		mudstone bentonitic, same as above
3		
6		
9		
391 0		
3		
6		
9		
392 0		
3		
6		
9		
393 0		
3		
6		
9		siltstone, Frm becomes siltier and at this point
394 0		siltsize particles become more than 50% of total.
3		silt size part. generally quartz and mica (musc. + biot.) approx. 50% → 60% silt → Vfg sand size part. bentonitic
6		mudstone approx 40 → 50%. generally grey green → grey, abundant mica.
9		
395 0		siltstone, bentonitic, abundant hematite stain, otherwise, same as above
3		
6		
9		
396 0		ss. Vfg grey → grey green
3		

Project Anderson Mine Hole No 51-C Logged By G.M

depth		strip Log	
442	0		limestone becomes muddier, (30-40%) mudstone on some parting surfaces appears to be striated by differential movement on parting planes (slickensides on fault planes?) partings appear to be about 10°→20° off bedding planes.
	3		
	6		still calcareous
	9		
443	0		section becomes more carbonaceous in interval from 343 → 344'
	3		
	6		section grades into mudstone below
	9		
444	0		Lignitic mudstone - Lt. grey → dk grey → black, non-calcareous, partially silicified some biot?, some muscovite, tr. sericite, bentonite 50-60%, well cemented
	3		
	6		
	9		
445	0		amount of carbon increases to 345' 7" and diminishes below.
	3		carbon 50-70%, otherwise same mineralogically
	6		
	9		siliceous material 10→20%
446	0		
	3		
	6		slight increase in carbonaceous material this interval (60-70%)
	9		
447	0		Light green accessory mineral (chert?) on fracture planes of mudstones (appears on most fracture planes
	3		
	6		
	9		
448	0		

Project Anderson Mine Hole No. 51-C Logged By G.M

448	0		
	3		section same as above
	6		
	9		
449	0		
	3		
	6		siltstone - grey (lt → dk) carbonaceous, non calcareous, bentonitic, biotite (20%) muscovite (10%)
	9		
450	0		sericite (trace) quartzose silt grains, tr. Kaolinite poor → fair cementing, slightly siliceous
	3		
	6		
	9		
451	0		mudstone - green (lite → dk) bentonitic
	3		
	6		
	9		mudstone gradational into lower siltstone below
452	0		siltstone - grey (lite → dk), minerology same as 450' but limited banding in carbonaceous material.
	3		
	6		
	9		
453	0		Translucent lt. green accessory min (chert)
	3		
	6		shiney black matrix banding may be chert or reduced uranium?
	9		
454	0		

Project Anderson Mine Hole No. 51-C Logged By G.M.

Depth		strip Log	
454	0		siltstone - carbonaceous, same as above
	3		carbon stained bentonite on some fracture planes
	6		other fracture planes show build up of greenish chert (50%/50%)
	9		
455	0		
	3		much bentonite in section (60-70%)
	6		less silt size part
	9		
456	0		
	3		
	6		tr. of calcareous material
	9		
457	0		
	3		
	6		change from one section to next is gradational loss of bentonite is primary change
	9		
458	0		siltstone - ss, Lt. grey, carbonaceous, silt size → vfg sand 50→60%, biotite/muscovite 10%, bentonite 15→20%, some shiney black accessory matrix in sand as stringers (uranium?), some Kaolinite
	3		
	6		
	9		
459	0		10→20% carbon as matrix (carbon dull sheen) well cemented
	3		
	6		siltstone - same as above w/ more carbon (>30%)
	9		change is gradational
460	0		

Anderson Mine Hole No 51-C Logged By G.M.

Depth	Strip Log	
460 0		same as above except increse in bentonite
3		w/ corresponding decrease in carbon (60% / 30% bed)
6		
9		
461 0		same as above
3		siltstone
6		carbon decreases w/ increase in silica
9		
462 0		
3		siltstone
6		
9		
463 0		entire section is a carbonaceous
3		siltstone w/ variable increse & decrease in
6		carbon and mudstone matrix in inverse
9		relationship
464 0		pyrite xtls buildup on fracture plains
3		section has increase in carbon, poor →
6		Fair cementing, non calcareous
9		Lignitic, somewhat vesicular, spongey appearing
465 0		
3		
6		
9		general increase in mudstone w/ decrease
466 0		in carbon

Anderson Mine Hole No. 51-C Logged By G.M.

Depth	Strip Log	
466 0		silt stone
3		silty → Vfg w/ some biotite, sand size generally
6		> Vfg, guartzose, some muscovite, carbon (5-15%)
9		mudstone 15-20%, some silica replacement.
467 0		well cemented, non calcareous
3		
6		
9		
468 0		same as above
3		
6		
9		
469 0		
3		
6		
9		
470 0		section becomes more muddy
3		slightly calcareous, mailstone
6		calcareous in inclusions, some Kaolinite
9		stringers, very little sand or silt size
471 0		peticles
3		
6		
9		
472 0		

Anderson Mine Hole No 51-C Logged By G.M

Depth	Strip Log	
472 0		siltstone - grey
3		same as above
6		
9		
473 0		
3		
6		
9		
474 0		
3		
6		
9		Bottom of Hole
475 0		

Project Anderson Mine Hole No 51-C Logged By G. M.

Depth		
396	3	siltstone grey → dK grey → grey green, VFg → Fg bentonitic mudstone matrix, ss generally sub-subhose, non-calcareous, abundant regrown qtz, many altered feld spars (to kaolinite) sand size approx 50→80%, siltstone size 20→30%
	6	
	9	
397	0	
	3	
	6	
	9	
398	0	Frm. becomes mostly sand size @ this point 50% (VFg → Fg) mineralogy same as siltstone above except sand size 50%+ ↓ silt size 10%
	3	
	6	
	9	
399	0	
	3	mudstone – siltstone similar to 397' much muscovite
	6	some silicification
	9	
400	0	
	3	
	6	ss – VFg → Fg, quartzose, 20% biotite, 10% muse. non-calcareous, grey → grey green, bentonitic mudstone matrix 5→10%, friable, tr. sericite no feldspars, tr. chlorite
	9	
401	0	tr. pyrite (matrix)
	3	
	6	siltstone, section loses sand + gains bentonite
	9	
402	0	
	3	mudstone – section loses all silt + sand
	6	section becomes very argillaceous (20–30% muse.)
	9	lignitic stringers .1" → .5"
403	0	

Project Anderson Mine Hole No. 51-C Logged By G.M.

Depth		Strip Log	
403	0	0	Lignite stringers (carbon) very argillaceous
	3		
	6		tr. pyrite, some sericite
	9		
404	0		
	3		
	6		ss – VFg same as 401'
	9		
405	0		
	3		
	6		mudstone, bentonitic, grey green → olive green
	9		some silt. much mica (muse + biot.)
406	0		
	3		
	6		
	9		
407	0		
	3		lignite, argillaceous carbonaceous mudstone 50→30% muscovite, mudstone stringers (kaolinite), carbonaceous material most pure in center of section, grades to mudstones on
	6		both ends of section.
	9		
408	0		mudstone – bentonitic (90%) green → grey green much mica (mostly muscovite)
	3		
	6		
	9		
409	0		
	3		

Project Anderson Mine Hole No. 51-C Logged By GM

Depth		Strip Log	
409	3		same as above
	6		tr. pyrite, some SiO_2
	9		
410	0		mudstone pyrite as fine xtls on parting surfaces of lignites. lignites are carbonaceous siltstones w/ much biotite + muscovite
	3		
	6		
	9		carbonaceous mudstone stringers
411	0		frm all carbonaceous mudstone carbonaceous mat. + mudstone about 50/50. but not separable into individual phases black
	3		
	6		
	9		frm grades to siltstone w/ additions of sand + silt size particles, abundant biot., non-calcareous black
412	0		
	3		
	6		mudstone, carbonaceous. silicified, carbon blobs floating in silicified carbonaceous mudstone
	9		
413	0		silicification of mudstone extreme. very hard + dense, much carbon present but total amount difficult to ascertain because of very homogeneous submicroscopic mix. black → grey
	3		
	6		
	9		
414	0		section grades to less silicification grey → brown
	3		
	6		
	9		section changes back to carbonaceous mudstone/ siltstone w/ much mica
415	0		
	3		
	6		

Project Anderson Mine Hole No. 51-C Logged By GM

Depth		strip Log	
415	6		section same as above
	9		
416	0		
	3		
	6		section grades to highly silicified mudstone w/ very little carbon, much SiO_2 w/ some biot. + fe stain (limonite) some bentonite (free), loss of carbon is gradational w/ no fixed cutoff.
	9		
417	0		
	3		mudstone - olive, highly silicified, non-calcareous
	6		tr. biotite, almost totally silicified, some biotite altered
	9		tr. muscovite. some zoning in specific areas of cherts
418	0		End of run no. I
	3		
	6		
	9		
419	0		
	3		
	6		
	9		
420	0		
	3		
	6		
	9		
421	0		
	3		
	6		
	9		

Project Anderson Mine Hole No. 51-C Logged By G.M.

Depth		strip Log	
430	0		mudstone - grey → dk grey, silicified partially
	3		tr. biotite, tr. muscovite, biotite finely divided and partially altered to sericite
	6		mudstone - grey → lt. grey, bentonite (50→90%), generally no silicification
	9		mineralogically same as mudstone above except no silcification,
431	0		
	3		mudstone continues to 432'
	6		
	9		mudstone becomes more silicified (50→40%), tr. green
432	0		accessory mineral appears as stain in bentonite, may be uranium salt (oxidized) silica appears as filiments on parting
	3		surface of mudstones also chert intergrowths on mudstone partings.
	6		silica is localized in partings in mudstones.
	9		
433	0		
	3		mudstone w/ fibrous kaolinite stringers thru the partings, tr. sericite, kaolinite partially silicified, abundant
	6		bentonite continuing in section.
	9		
434	0		section still mostly bentonite but color now white → buff
	3		
	6		
	9		same
435	0		section still bentonitic but becomes dk colored (dk grey → dk grey-green) some silt size particles
	3		
	6		siltstone - 50% → 60% bentonite, 30% → 40% sand size particles 1→5% biotite (some altered to sericite, 1→5% musc.
	9		sand part. generally qtz, some regrown tr. orthoclase
436	0		

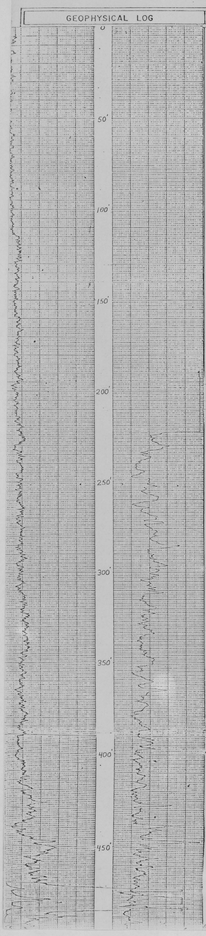
Project Anderson Mine Hole No. 51-C Logged By G. M.

Depth		strip Log	
436	0		
	3		
	6		
	9		mudstone, bentonitic, dk grey green. (90% → 100% bentonite)
437	0		
	3		
	6		
	9		silt stone - same as 435'6" → 436'6"
438	0		
	3		mudstone - bentonitic as 436'6" → 437'6"
	6		
	9		
439	0		
	3		limestone - buff → lt. grey, some silica stringers, calcareous, olive mudstone inclusions, discreet carbon pieces
	6		in the country rock, black chert, tr. pyrite, bentonite
	9		tr. kaolinite, tr. sericite
440	0		mudstone stringers
	3		
	6		
	9		section generally homogenous
441	0		
	3		
	6		
	9		
442	0		

PROJECT Anderson Mine HOLE SIZE ☑ AIR ☐ WATER FOAM HOLE NO. AM-52

ELEVATION NORTH EAST LOGGED BY TRL DATE 5 NOV 1975

SECTION 10 TOWNSHIP 10N RANGE 11W T.D. 600' P.D.



LITHOLOGY LOG

0-10 Conglomerate : Bff, composed of blk basalt, pink volc. granitic, meta, rk frgts

10-50 Basalt : purple grey

50-115 Basalt : grey-black

115-130 Conglomrt : red brown; abnt or Fe stn; com blk basalt frgts 115'-125'; composed of granitic, meta, pink volc. rk. frgts. — $CaCO_3$ cemented

130-160 Conglomerate : pink; com or Fe stn; same composition as 115-130'

160-210 Conglomrt : buff; $CaCO_3$ cemented; cmpsd of granitic, metam, pink volc. rk. frgts.

210-220 Siltstn: buff, $CaCO_3$ cement

220-235 Siltstn: red brown, olive green

235-240 SS : md grn, buff, subangl, arkose

240-245 Siltstn: buff, orange

245-250 SS : md grn, buff, subangl, arkose

250-255 Siltstn: red brown, $CaCO_3$ cemented

255-260 SS: buff, c grn, subangl, arkose

260-305 Siltstn: red brn, orange, SS: buff, c grn, subangl, arkose interbedded w/ above Siltstone

305-395 Siltstn: red brown / Mudstone: olive green SS: scattered stringers, md grnd, subangl

395-425 Mudstone : olive green limy stringr @ 395'

425-455 Limestn and assoc. chert : wh/clr Interbedded w/ olive grn mudstn & siltstn. Abnt chert (orng) 430-440

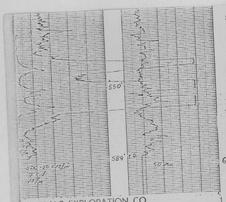
455-460 Mudstn: blk

460-475 Siltstn: olive grn, brn, orange w/ stray $CaCO_3$ abnt → Cmnted Slt

475-480 Siltstn: blk, cemented

480-515 Mdstn / Siltstn: Blue green, green rare wh bentonite

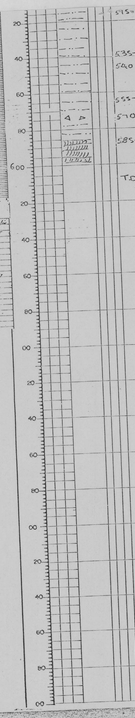
52 double 1/2



MINERALS EXPLORATION CO.

HOLE NO.	AM-52
HOLE SIZE	6¼" AIR FOAM
ELEV. TOP	5147'
ELEV. BOT.	5142'
DATE COMP.	9 NOV
DIR. TOP	1 Dec
DIR. BOT.	1 Dec
DIR.	
DEVIATION TOP	-
DEVIATION BOT.	-
DRILLER	D. DEVOLL
HELPER	J. TYE
LOCATION	SAVERAL
DATE STD. PT.	11-11-75
FLUID LEVEL	233'

LATITUDE			
LONGITUDE			
ELEV.			
DATE	1924		
DIR.			
DIR.			
DIR.			
DATUM	600'		
DATE DRILLED	1924		
DATE COMPLETED	1924		
TOTAL DEPTH	(2-7-1924) 2,165'	(2-20-1924) 2,175'	
DATE CASING	7/1924		
CASING	7"		
CASING LOCATION	2,165'		
	DIR. TOP	DIR. BOTTOM	DIR. TOTAL
DIP	57½°	57½°	
DIP	57½°	57½°	
DIP	57½°	57½°	
DIP	57½°	57½°	
DIP	57½°	57½°	



515-535 Siltstone : green Siltstn: blk, somewhat indurated - $CaCO_3$ cement (?), abnt carbonaceous mtrial

535-540 Siltstn / Mudstn : green

540-555 Siltstn: green Siltstn: blk, somewhat indurated - $CaCO_3$ cement(?)

555-570 Siltstn: green, sctrd bentonite

570-585 Siltstn : green, red brown Oxidized rock frgts : red brown, subrd

585-600' Volcanic Rk : Oxidized, subround frgts Red brown

T.D. - 600'

AM 52 double 2/2

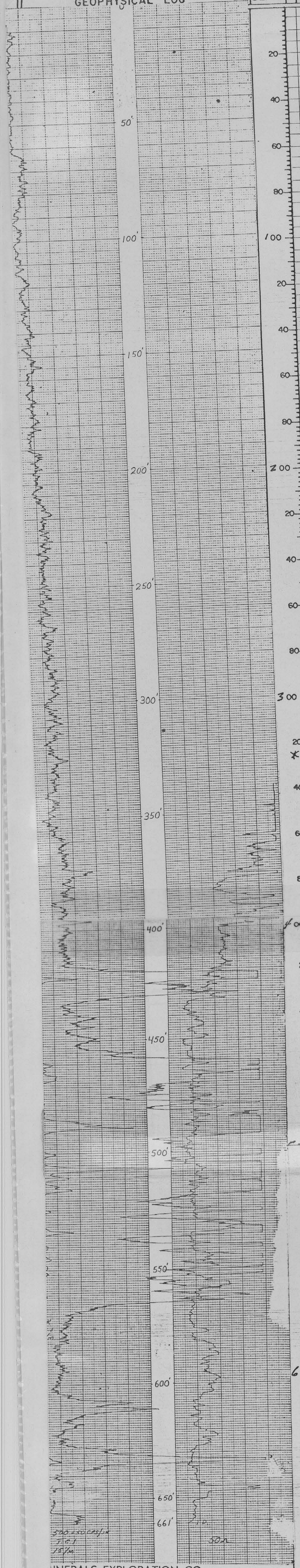
PROJECT ANDERSON MINE HOLE SIZE ______ ☐ AIR ☐ WATER **HOLE NO.** AM-53

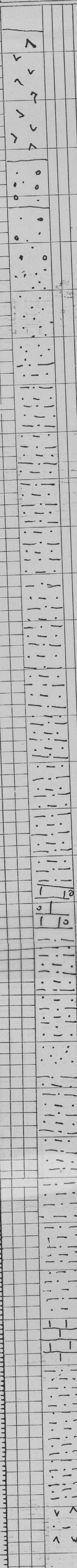
ELEVATION ______ NORTH ______ 11N EAST ______ LOGGED BY DBD DATE 12-6-75

SECTION 10 TOWNSHIP ~~[illegible]~~ RANGE 10W T.D. 660 P.D. ______

* foam

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG





0-10 QAL

10-65 dk. gry volcanics

65-85 red ss-congl. Is probably the paleosoil of the underlying conglomerate

85-110 lt. tan conglomerate

110-140 lt. tan calcite cemented fg ss. Tr-mod. alteration of feldspars

140-155 lt. med. brn. ss w/mod.-abundant limonite stn. cc cement

155-165 red-brn. siltstone

165-205 - lt. med. brn ss w/calcite cement

205-210 med brn silt stn (ss?)

210-215 red-brn siltstone

215-230 - med-brn siltstn

230-265 - red-brn siltstone w/mod fg sand ss is mod-abundant limonite & hematite stained

265-370 med brn sandy siltstne w/ tr. lt. grn mudstone

320 - shale has less bentonite (sample return is in chunks) from 320-370, samples are much more bentonitic could be from poor drilling or from lith change.

370-410 white ls w/ dendritic markings and tr? of chert. also tan-grn siltstn

410-425 lt. yellow-grn siltstne w/ tr. ls.

425-440 lignitic shale & blue-grn shale

440-450 blue tan cc cemented ss & lt. tan ls.

450-470 blue-grn shale - has much contamination

470-505 blue-grn & dk gry (lignitic) shale

505-525 hard blk lignitic shales w/tr-mod. blue grn shale

525-540 - dk gry - blk shale w/ tr. blue grn shale

540-560 hard lignitic shales, tr. bentonite blebs, tr. blue-grn shale

560-580 - dark green lignitic ls.

580-590 - blue-grn shale (lignitic?)

590-610 red-brn shale

610-615 blk lignitic shale

615-630 - red-brn shale

630-635 - blk lignitic shale

635-660 red-brn shale w/ volcanic frags.

660 - TD

MINERALS EXPLORATION CO.

CASPER, WYOMING HOLE NO. AM-53

LOCATION	ANDERSEN MINE	GAMMA SCALE	500 = 50 CPS/in
COUNTY	YAVAPAI STATE ARIZONA	PROBE TYPE	SCINT
	1,202,408N 639,202E ELEV. 1913	K FACTOR	2.35 x 10⁻⁵
	TWP 11N RGE 10W	DEAD TIME	9.6 μSEC
DATE	12-4-75	TIME CONSTANT	1
DEPTH DRILLED	600'	PROBE DIA	1 9/16"
DEPTH LOGGED	601'	CALIPER	—
FOOTAGE LOGGED	771'	DIRECTIONAL SURVEY	—
HOLE DIAMETER	(0-180 6 3/4) (180-660 5 5/8)	TEMPERATURE	—
WATER FACTOR	1.196 1.197	OPERATOR	D BRADLEY
RESISTIVITY	10 OHMS/INCH	DRILLER	STAN
SELF POTENTIAL	— M.V./IN	CONTRACTOR	REID
RUNS	1ST RUN 2ND RUN 3RD RUN	LAST A.E.C. PIT RUN	11-1-75
FROM	640' 570'	FLUID LEVEL	359'
TO	625' 415'	REMARKS	
TOTAL FEET	15' 155'		
SPEED RUN	5K 10K		

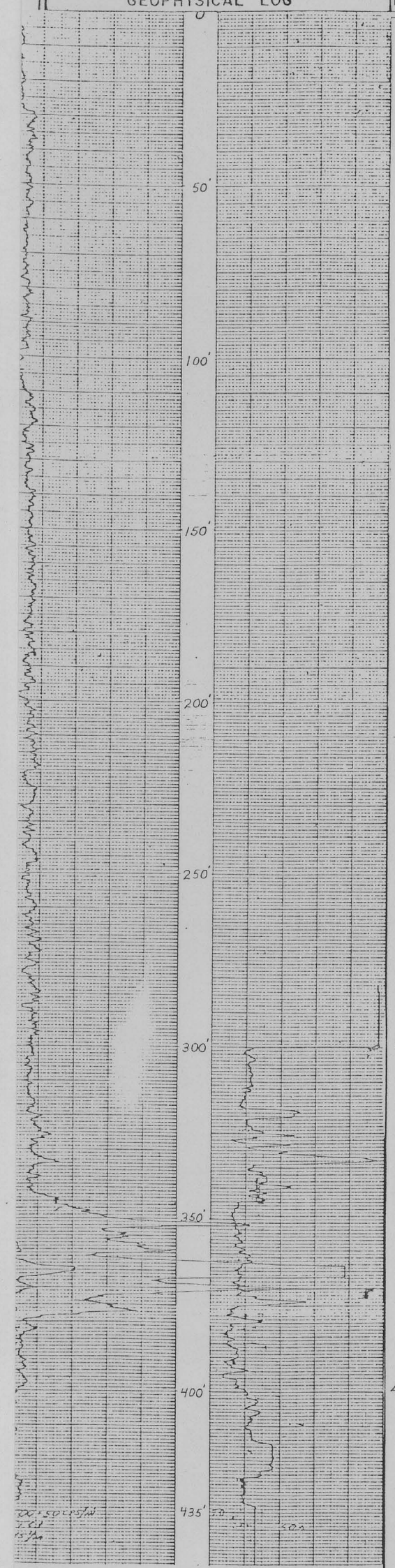
AM53
p 1 of 1
double

PROJECT Anderson Mine HOLE SIZE _____ ☑ AIR ☐ WATER FOAM HOLE NO. AM 54

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY JRL DATE 6 NOV 1975

SECTION 10 TOWNSHIP 11N RANGE 10W T.D. _____ P.D. _____

Russell Sharpe



DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
0					0-30 Basalt: blk, com orngе Fe blebs, scattrd calcite
20					
					30-60 Conglomerate: Red Brown-pink; $CaCO_3$ cemented; composed of qtz, pink volc., metam rk frgts; abnt Fe stain scattrd blk volc. rk frgts 30'-40' (contamination?)
40					
60					60-105 Conglomerate: buff to wh; $CaCO_3$ cemented; composed of qtz, chrt, pink volc., metam. rock frgts.
80					
100					105-160 Siltstn: olive green, brown ss stringr @ 115' md grn, subrnd, com Fe stain; 135' Lime cemented ss
20					
40					
60					160-215 Siltstn: red brown, v f grn ss
80					
200					215-225 Siltsn: olive green
20					225-235 SS: red orange, f to md grain, subrnd,
40					235-240 SS: olive green, f to md grain, subrnd.
60					240- Siltstn: olive green; mudstone: olive green white bentonite @ 255'
80					
300					second portion of log missing
20					note: mineralized portion was in
40					a carbonaceous mudstn/siltstn.
60					
80					
400					
20					
40					
60					
80					

AM 54

MINERALS EXPLORATION CO.

CASPER, WYOMING HOLE NO. AM-54

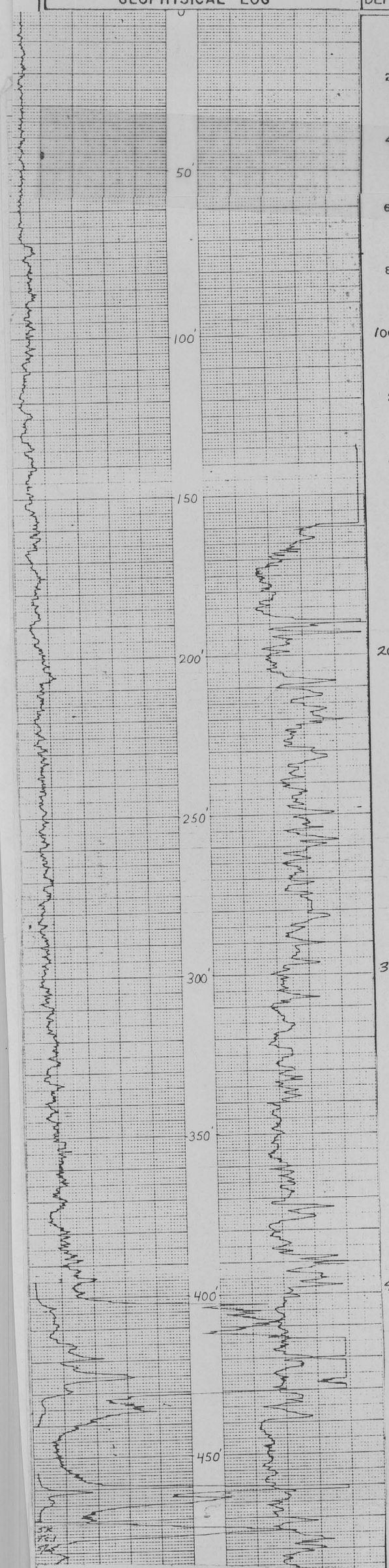
LOCATION	ANDERSEN MINE	GAMMA SCALE	500 · 50 CPS/in
COUNTY	YAVAPAI STATE ARIZONA	PROBE TYPE	SCINT
GP.	1,202,799N 638,907E ELEV. 1907	K FACTOR	2.25 X 10^-5
SEC	TWP 11N RGE 10W	DEAD TIME	9.6 μSEC
DATE	12-6-75	TIME CONSTANT	1
DEPTH DRILLED	435'	PROBE DIA.	1 11/16"
DEPTH LOGGED	435'	CALIPER	—
FOOTAGE LOGGED	460'	DIRECTIONAL SURVEY	—
HOLE DIAMETER	(0-120 (7/8) (120-435 5 5/8)	TEMPERATURE	—
WATER FACTOR	1.196 1.177	OPERATOR	D. BRADLEY
RESISTIVITY	10 OHMS-METER	LOGGER	SABRE
SELF POTENTIAL	— MV/IN	CONTRACTOR	REID
	1ST RUN 2ND RUN 3RD RUN	LAST A.E.C. MT RUN	11-1-75
TD FLUID	580'	FLUID LEVEL	300'
BOTTOM	580'	REMARKS	
TOP	555'		
TOTAL MEAS	25'		
SCALE RUN	5K		

PROJECT Anderson Mine HOLE SIZE ____ ☑ AIR ☐ WATER FOAM HOLE NO. AM-55

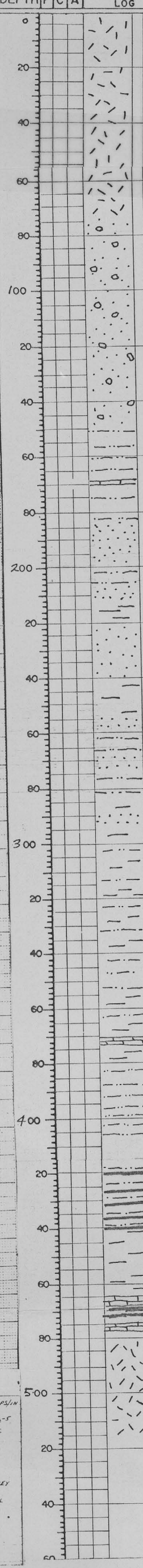
ELEVATION ____ NORTH ____ EAST ____ LOGGED BY JRL DATE 6 NOV 1975

SECTION 10 TOWNSHIP 11 N RANGE 10 W T.D. 615' P.D. 595'

GEOPHYSICAL LOG



DEPTH | P | C | A | STRIP LOG



LITHOLOGY LOG

0-75 Basalt: grey-black, com Calcite frgts, Fe bleds abnt in basalt frgts - alteration of feldspars possibly
0-5 purple in ~~clour~~ color

75-110 Conglomerate: Red brown grading to pink @ 100' composed of or qtz & chert, granitic, metam, pink volc rk frgts. Abnt orng Fe stain, $CaCO_3$ cemented

110-150 Conglomerate, SS, Limstn: $CaCO_3$ cemented congl & ss composed of same mtrl as above interval. grades to 90% pure Lmstn units @ 115'-120',

150-165 Siltstn: brown

165-170 Limstn stringr in brown siltstn (possibly contam. from uphole)

170-180 Siltstn: brown

180-185 Siltstn: brown, indurated - $CaCO_3$ cemt(?)

185-190 SS: buff, c grn, rounded, rare limstn chips.

190-195 SS: buff to white, Abnt limstn cementing agent.

195-205 SS & Siltstn: ss: buff, cgrn, rnd, arkose. siltstn: rd brn, indurated

205-210 Mudstn: olive green, brown

210-240 SS: buff, cgrn, com Fe stn, arkosic, subrnd. (possibly contam from up hole) sctrd ~~tmr~~ $CaCO_3$ cmtd ss frgts

240-300 Siltstn/Mdstn/SS: brown rare ss and lime cmtd ss frgts

300-330 Siltstn/Mudstn: red brown scattrd ss stringrs: buff, c to md grn, rounded, arkose

330-370 Mudstn/Siltstn: lt olive green

370-375 Limstn Stringr: white

375-380 Mudstn: olive green

380-400 Siltstone: lite olive green, indurated - $CaCO_3$ cement (?), rare orng chert

400-415 Mudstn: blue green

415-425 Siltstn: blk Mudstn: blk, blue green

425-430 Siltstn: blk, indurated - $CaCO_3$ cmt(?)

430-440 Siltstn: blk, drk olive green, wh bentonite

440-450 Mudstn: drk olive green

450-465 Mudstone: drk olive green, brown, green

465-475 Limstone: buff to off white, com carbon mtrl, sctrd chrt (orng) Mudstn: buff

475-480 Siltsn/Clay: red brown

480-510 Volcanic Rk frgts: red brown, oxidized relatively easy drilling

510-515 Volcanic Rk frgts: red brown, abnt calcite

T.D. = 515

MINERALS EXPLORATION CO.

CASPER, WYOMING HOLE NO. AM-55

LOCATION ANDERSEN MINE
COUNTY YAVAPAI STATE ARIZONA
GP. 1,223,812 N 635,782 E ELEV. 1994
SEC TWP 11N RGE 10W

DATE	12-6-75
DEPTH DRILLED	510'
DEPTH LOGGED	495'
FOOTAGE LOGGED	555'
HOLE DIAMETER	(0'-160' 5 1/2") (160'-510' 4 3/4")
WATER FACTOR	1.172 1.142
RESISTIVITY	10 OHMS/INCH
SELF POTENTIAL	— M.V./IN

RERUNS	1ST RUN	2ND RUN	3RD RUN
BOTTOM	470'	490'	
TOP	455'	395'	
TOTAL FEET	15'	45'	
SCALE RUN	5K	5K	

GAMMA SCALE	500 = 500 CPS/IN
PROBE TYPE	SCINT
K-FACTOR	2.25×10^{-5}
DEAD TIME	9.6 μSEC
TIME CONSTANT	1
PROBE DIA.	1 11/16"
CALIPER	—
DIRECTIONAL SURVEY	—
TEMPERATURE	—
OPERATOR	D. BRADLEY
DRILLER	STEVE
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	11-1-75
FLUID LEVEL	159'
REMARKS	

AM55

PROJECT ANDERSON MINE HOLE SIZE ____ ☐ AIR ☐ WATER HOLE NO. AM-56

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY DBD DATE 12-6-75

SECTION ____ TOWNSHIP 11N RANGE 10W T.D. 380 P.D. ____

* foam

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						0-30 blk volcanics some w/ calcite cement. tr. amygdaloids
	20					
						30-45 hematite stained ss and conglomerate - paleosil?
	40					45-100 light bra-tan conglomerate qtz-angular w/tr-mod limonite staining. Kspar - may be slightly altered.
50'	60					
	80					
100'	100					100-~~115~~ 160 lt. bra calcareous sand, mod limonite staining - appears very poorly sorted
	20					
						140-145 off-whit c.g. ss w/abundant calc. cement. - frags are angular
150'	40					
	60					160-200 reddish bra siltstone (ss? - is very poorly sorted) - has much bentonite - frags are mostly qtz, feldspars w/occasional dk gra igneous frags. has mod-abund. limonite w/common hematite staining. - has contamination in many of the samples
	80					
200'	200					200 med. bra siltstone ? (ss?)
	* 20					220-275 med bra siltstone
	40					230-240 - bra gra siltstone
250'						
	60					
						275-290 bra-gra siltstone - bentonitic
	80					
300'	300					290-300 - hard, lt. gra, sandy ls w/chert & chert filling
						310 - blk lignitic siltstone
	20					325 - red shale and volcanic material - basement
	40					
350'						
	60					
						T.D. -380
377' TD	80					
	00					
	20					
	40					
	60					
	80					

MINERALS EXPLORATION CO.

JASPER, WYOMING HOLE NO. AM-56

LOCATION	ANDERSEN MINE	GAMMA SCALE	500=50 cps/in
COUNTY	YAVAPAI STATE ARIZONA	PROBE TYPE	SCINT
N	1,203,195 N	K FACTOR	2.25 x 10^-5
E	699,205 E ELEV. 1933	DEAD TIME	9.6 μSEC
SEC.	TWP. 11N RGE. 10W	TIME CONSTANT	1
DATE	12-5-75	PROBE DIA.	1 9/16"
DEPTH DRILLED	380'	CALIPER	—
DEPTH LOGGED	377'	DIRECTIONAL SURVEY	—
FOOTAGE LOGGED	372'	TEMPERATURE	—
HOLE DIAMETER	(0-120' 6 1/8) (120'-380' 5 5/8)	OPERATOR	D. BAWLEY
CALIBRATION FACTOR	1196 1177	DRILLER	STAN
RESISTIVITY	10 OHMS/INCH	CONTRACTOR	REID
S.P. POTENTIAL	— M.V./IN	LAST A.E.C. MT. RUN	11-1-75
RUNS	1ST. RUN 2ND. RUN 3RD. RUN	FLUID LEVEL	352'
BOTTOM	298-315'	REMARKS	
TOP	300'		
TOTAL FEET	15'		
FEET PER RUN	10X		

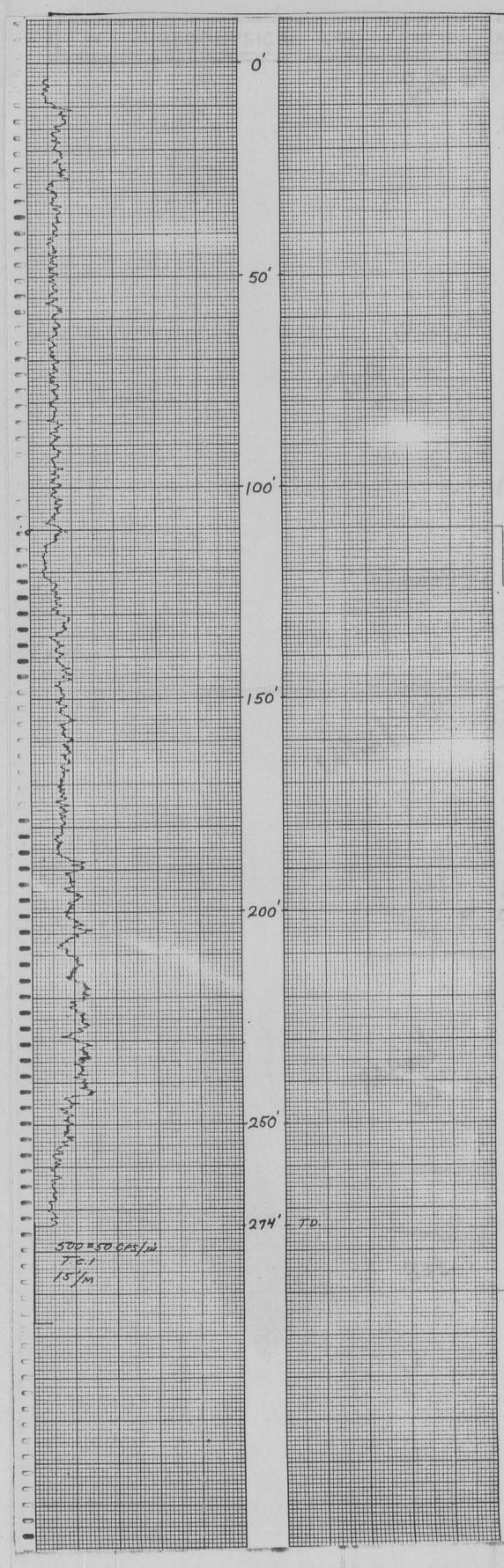
A56

PROJECT ANDERSON MINE HOLE SIZE ____ ☐ AIR ☐ WATER HOLE NO. AM-57

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY DBD DATE 12-6-75

SECTION 10 TOWNSHIP 11N RANGE 10W T.D. 275 P.D. 275

* foam



DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
					0-10 dk. gry - blk volcanics
20					10-30 pinkish-brn ss-silt probably an old paleosoil.
40					30-120 conglomerate - generally calcite cemented with qtz, feldspar and matic chips (some of the overlying volcanics) compose most of the material
60					
80					
0					
20					120-130 - reddish brn siltstone
40					130-180 - lt. brn siltstone
60					
80					180-185 - lt. yellow brn siltstone
0					185-215 - med. brn siltstone
20					*
40					215-250 lt grn siltstone w/ abundant bentonite does not appear to contain carbonaceous mat'l.
60					250-260 - bentonite stringers w/ red shale interlayers
80					260-275 red shale and volcanic mat'l. 275 - T.D.
0					
20					
40					Barren hole
60					
80					
00					
20					
40					
60					
80					
00					

AM 57

MINERALS EXPLORATION CO.

CASPER, WYOMING HOLE NO. AM-57

LOCATION	ANDERSEN MINE	GAMMA SCALE	500=50CPS/in
COUNTY	YAVAPAI STATE ARIZONA	PROBE TYPE	SCINT
GP.	1,203,191 N 638,799 E ELEV. 1930	K-FACTOR	2.25 X10^-5
		DEAD TIME	9.6 μSEC
		TIME CONSTANT	1
SEC.	TWP. 11N RGE. 10W	PROBE DIA.	1 11/16"
DATE	12-5-75	CALIPER	—
DEPTH DRILLED	275'	DIRECTIONAL SURVEY	—
DEPTH LOGGED	274'	TEMPERATURE	—
FOOTAGE LOGGED	274'	OPERATOR	D. BRADLEY
HOLE DIAMETER	(0-100' 6 1/8) (100'-275' 5 5/8)	DRILLER	STAN
WATER FACTOR		CONTRACTOR	REID
RESISTIVITY	— OHMS/INCH	LAST A.E.C. PIT RUN	11-1-75
SELF POTENTIAL	— M.V./IN.	FLUID LEVEL	DRY

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM			
TOP			
TOTAL FEET			
SCALE RUN			

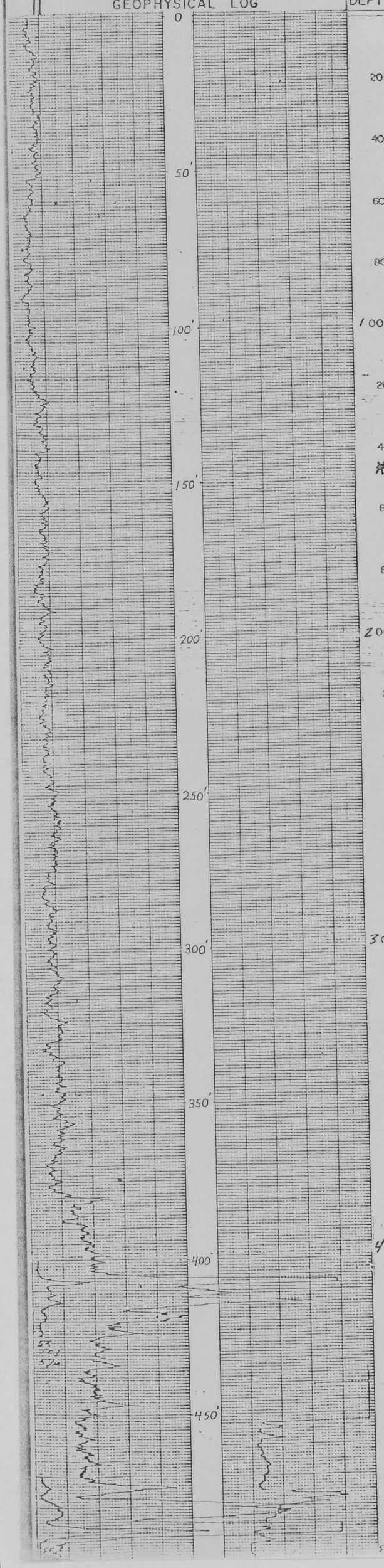
REMARKS:

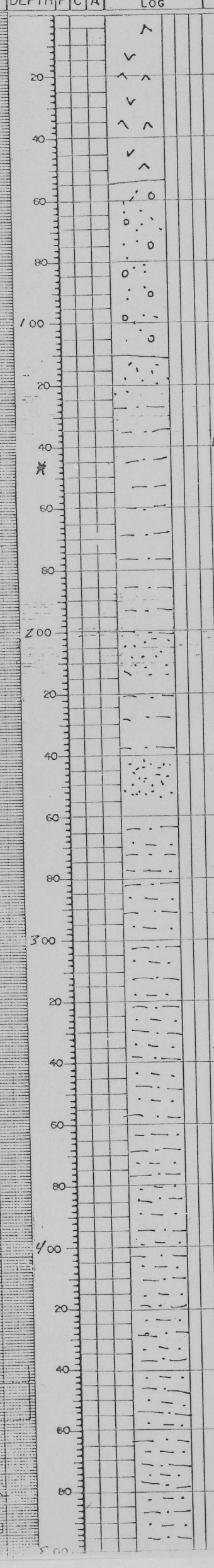
PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☐ WATER HOLE NO. AM-58

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY DRD DATE 12-7-75

SECTION 10 TOWNSHIP 11N RANGE 10W T.D. ____ P.D. ____

* foam





LITHOLOGY LOG

0-55 dk gry volcanics

55-110 conglomerate composed of cc. cemented qtz, feldspar, and mafic igneous rxs. mod. limonite staining. This hole does not show the "paleosoil" as seen in other cuttings

110-115 med. brn siltstone
115-120 - lt. gry siltstone & ss (calcite cemented)
120-125 - brn - red ss - abundant hematite staining
125-140 lt. brn siltstone & sand
140-150 med brn siltstone

150-175 med brn siltstone

175-200 med brn siltstn w/tr. of bentonite

200-215 red-gry fg ss & brn-red siltstn
215-240 red-brn siltstn

240-255 grn-gry ss

255-260 - red-brn siltstn
260-310 med. brn siltstn w/tr. bentonite blebs.

310-315 blue-blk lignitic siltstn.
315-325 med. brn siltstn.

325-345 - lt. grn siltstn
345-355 - white ls w/chert.
355-365 lt. grn. siltstn
365-410 red & lt. grn siltstn

410-450 lt grn siltstn w/ med. abundant lt. gry. ls

450-480 - blk lignitic shale

480-520 - red shale
520-550 - basement.

AM58

PROJECT *ANDERSON MINE* HOLE SIZE _____ ☒ AIR ☐ WATER HOLE NO. *AM-59*

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY *DBD* DATE *12-8-75*

SECTION _____ TOWNSHIP *11N* RANGE *10W* T.D. *570* P.D. _____

X bam

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	0					0-10 QAL
						10-60 dk grey volcanics
	20					
	40					
50'						
	60					60-75 red brn gtzose material. Is probably "paleosoil" of under lying conglomerate. Is heavily hemitichy stained
	80					75-85 as above except that the material is less oxidized and is limonite stained.
100'	100					85-140 conglomerate composed mostly of qtz, feldspars, and mafic fragments. At 115 there is a 5' section of predominantly chlr altered volcanics.
	20					
	40					140-155 lt. med. brn siltstn
150'						
	60					155-160 lt. grey cc cemented fg ss, tr. limonite staining, poorly sorted
						160-165 red-brn siltstn.
						165-175 lt. grey cc cemented fg. ss, tr. limonite staining, poorly sorted
	80					175-210 med brn siltstn.
200'	200					
	20					215-220 lt. yellow brn siltstn
						230-240 reddish brn siltstn.
250'						240-255 - lt. pink-grey fg. ss w/ siltstn. tr.-mod limonite & hematite staining.
						255-260 red-brn siltstn.
						260-265 fg. ss w/ red siltstn
						265-270 red brn. siltstn w/ lt. brn siltstn.
						270-280 lt. yellow brn siltstn
300'						280-310 med. brn siltstn.
	300					
	20					310-330 red(?) brn siltstn.
	40					330-345 grn-brn siltstn-ss. Appears darkin color but may be due to pitch. Cannot distinguish if carbonaceous material is present
350'						345-360 med. brn siltstn.
	60					360-375 lt grn to w/ cast of lt yellow grn siltstn.
						375-380 white to w/ cast
	80					380-400 lt. grn siltstn.
400'	400					400-415 lt. yellow grn bentonitic siltstn
	20					415-425 white bentonite w/ yellow grn siltstn.
						425-440 yellow-grn siltstn
	40					440-465 hard blue gray shale w/ blk lignitic shale siltstn
450'						
	60					465-475 blk lignitic ~~shale~~ siltstn
	80					475-515 blue blk lignitic shale (siltstone?)
500'						
						515-525 blue-gry lignitic siltstn & red siltstn
	20					525-555 red siltstn.
550'						555-570 basement.
	40					
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					
	20					
	40					

AM 59
double

MINERALS EXPLORATION CO.

CLIENT: WYOMING	HOLE NO. 11N-59
LOCATION: ANDERSON MINE	SECTION 20 T 50 N R 74 W
COORD: N 1-24-1968	ELEVATION 3250
E 1-24-1968	LOCATION 20 AC NW
DATE 12-8-75 BY DBD	DRILL TIME 9 MINS
DIR 1237.3388 E BIN 1899	TIME CONSTANT 1
TD 570 PD 570	DRILL TIME 1.24
DATE 12-9-75	LOGGED BY -
DATA DRILLER 5786	CONTINUOUS SURVEY -
DATA LOGGER 5786	CLASSIFICATION -
CASING DIAMETER 8 3/4	OPERATOR D. DANIELS
CASING HEIGHT 5 FT (1.524 M) (1.524 M)	DRILLER 5786
CASING FACTOR 1.176 1.177	DRILLING METHOD ROTARY
CASING DEPTH 20	DIST BELT TO MAN 10 FT
CASING CONTENTS DRY WET	FLUID LEVEL 385
	REMARKS
DRILLER: TO MAN DIST BELT	
TOTAL 535	
TOP 790	
TOTAL MAN 1.85	
TOTAL BELT 5.4	

PROJECT Anderson Mine

HOLE SIZE _____ ☑ AIR ☐ WATER FOAM

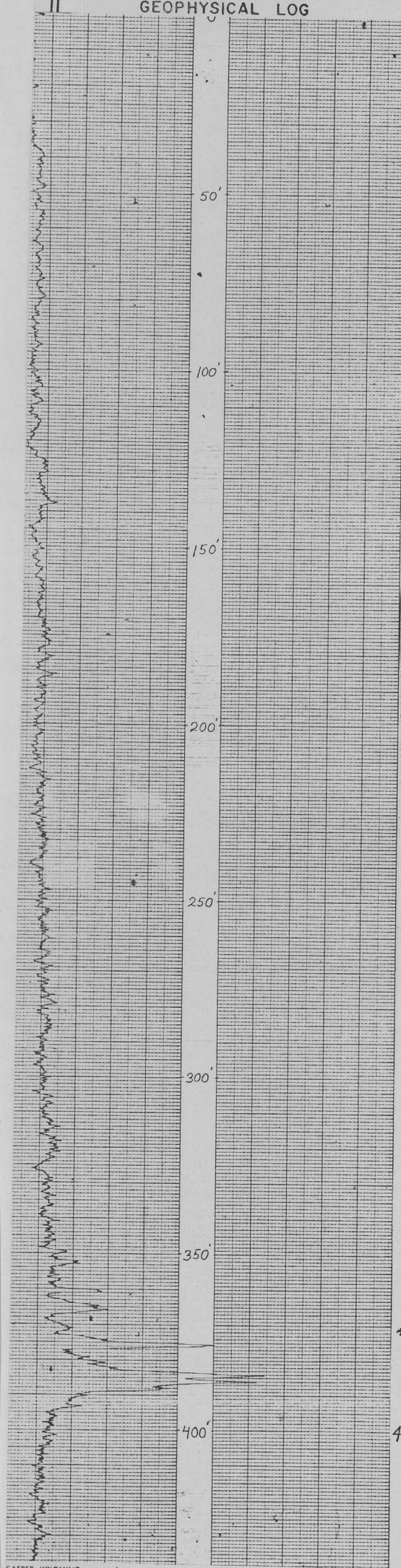
HOLE NO. AM-60

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY JRL DATE 7 NOV 1975

SECTION 9 TOWNSHIP 11 N RANGE 10 W T.D. 460' P.D. _____

Russell Sharpe

GEOPHYSICAL LOG



DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
0					0-10 Volcanic Rk Frgts: red brown (oxid), blk, gry green
20					10-35 Basalt: grey green (drk), scattered green glassy blebs, scattred calcite. Appears less mafic than basalts occurring elsewhere in mine area @ similar stratig. position
40					35-75 Conglomerate: buff; composed of pred. light colored (pink, orange) volcanic rk frgts, scattered metam rock frgts and qtz
60					75-95 Conglomerate: buff, composed pred. of qtz and feld frgts w/ minor amnts pink volc. frgts and metam frgts. White $CaCO_3$ cement @ 90'-95'.
80					95-100 Tuffaceous Limstone: buff
100					100-110 Conglomrt: Buff-wh, $CaCO_3$ cemntd, predom. qtz & feld frgts, minor amnts of pink volc. rk frgts & metam frgts
20					110-125 Siltstn: Pnk, green, wh, olive, $CaCO_3$ cemented.
40					125-155 Siltstn: brown, brown-green; SS: buff, subangl, arkosic } Interbedded
60					155-180 Mudstone: red brown 170'-175' olive green
80				Indurated Bentonite Chert	180-255 Sandstn & siltstn & Mudstn Interbedded 180-215' olive green 215-225 orange brown 225-255 olive green & rd brn interbdd SS: vf grain
200					
20					
40					255-315 Siltstn: brown, brown green
60					
80					
300					
20					315-350 Mudstone: olive green brown @ 340', 350' — possible UTml/MTml Contact
40					
60		✓			350-370' Mudstone: olive green Indurated siltstn @ 350-355' Chert: varicoloured @ 360-365' — Possible UTml/MTml Contact
80	✓	✓			370-375 Bentonite: white 375-380 Mudstn: olive green, brown
400	✓				380-385 Chert: Varicoloured 385-390 Mudstone: green 390-410 Mudstone: Red brown, light green
20					410-430 Mudstone: Red brown.
40					430-435 Mudstone: Red brown, com wh bentonite clay
60					435-460 Mudstone w/ Scattrd Red brown volc rock frgts containing wh. calcite amyjd filling.
80					
00					

CASPER, WYOMING

HOLE NO. AM-60

LOCATION ANDERSEN MINE
COUNTY YAVAPAI STATE ARIZONA
GP. 1,204,322.2N 636,475E ELEV. 2073
SEC. TWP. 11N RGE. 10W

DATE	12-6-75
DEPTH DRILLED	460'
DEPTH LOGGED	448'
FOOTAGE LOGGED	448'
HOLE DIAMETER	(0-120' 6⅞") (120'-480' 5⅝")
WATER FACTOR	
RESISTIVITY	— OHMS/INCH
SELF POTENTIAL	— M.V./IN
RERUNS	1ST. RUN 2ND. RUN 3RD. RUN
BOTTOM	
TOP	
TOTAL FEET	
CASING	

GAMMA SCALE	500-50 CPS/IN
PROBE TYPE	SCINT.
K-FACTOR	2.25 X 10⁻⁵
DEAD TIME	9.6 μSEC
TIME CONSTANT	1
PROBE DIA.	1 11/16"
CALIPER	—
DIRECTIONAL SURVEY	—
TEMPERATURE	—
OPERATOR	D. BRADLEY
DRILLER	SHARPE
CONTRACTOR	REID
LAST A.E.C. MTL RUN	11-1-75
FLUID LEVEL	DRY
REMARKS:	

AM 60