PROJECT Lindgren Mine HOLE SIZE 5⅞ ☒ AIR ☐ WATER HOLE NO. NM-174

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY G. Ill DATE Jan 26-76

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 580 P.D. 578

Farm @ 370

GEOPHYSICAL LOG	DEPTH	F	C	A	STRIP LOG	LITHOLOGY LOG
						0 → 75' conglomerate - mostly volcanic many shards of fresh volcanics generally tan → brown, sandy mud matrix (40%/20%), sand sub arkosic w/ Kaulinite and some muscovite, calcareous
						75' → 155' siltstone: Tan → pnk → lt olive green, mudstone matrix sand size part. (10 → 15%) mostly fgr. some chert (0 → 5%) some white → red (jasperoid), some muscovite (1%), color derived from mudstone (bentonitic) (60%) & calcareous
						155' → 205' mudstone - olive green → tan - bentonitic mucilik same as above but less sand and not silty calcareous
						205' → 270 siltstone / mudstone: interbedded stringers of siltstone and mudstone, not separable into either phase
						Entire section from 75' → 280' deposited under same conditions, ie. only viscosity was the control of the system. (mudstone or siltstone)
						270 → 280 mudstone, same as 155-205'
						280 → 405 Limestone / mudstone: white → grey - white limestones interbedded w/ mudstones (white → grey some mudstones are virtually pure bentonite some ben chert, some chips of mudstone and siltstone small amount of sand, generally fine to coarse calcareous some muscovite, tr. biotite and sericite
						massive bedded cherts from 360' → 380' Difficult drilling red → clear → purple more chert to bottom of section in random stringers section gradational into zeolite below
						405-485 mudstone / limestone / siltstone olive green → grey w/ stringers of white lime stone in upper part (40') some sand (20%) fr. chlorite, muscovite (0 → 1%), tr biotite, small random frags of purple chert, also red black, green chips of siltstone red mudstone, some zeolite @ 450' (contamination ?)
						485 → 565 - mudstone red some green, yellow chert, white, red, red mudstone chips (discreet) appears altered or weathered
						565 → 580 Basement - volcanics, agglomerate fr. chert, some sand, (0 → 30%) mostly silicic, hint, minus, calcite
						TD

M. FOX-TC-3 W x 0-12
MINERALS EXPLORATION CO.
AMBLYDYNE M3 USEC

LOCATION	Anderson Mine	STATE	REGION
COUNTY	Imperial		
NO.	5,281,289 E	SEN	4189
SEC	TWP 11	RGE	15 W
DATE	1-26-76		
TIME	1300		
DEPTH DRILLER	578		
DEPTH LOGGER	578		
CASING DRILLER	578		
CASING LOGGER	578		
BTM LOG INTERVAL	578		
TOP LOG INTERVAL	surface		
OPER. RIG TIME			
SURFACE TEMP	60		
BHT	80		
TYPE FLUID IN HOLE	Ground Water - mud as necessary		
DENSITY		VISC	
PH		FLUID LOSS	
SOURCE OF SAMPLE			
RM @ MEAS TEMP	.480 @ 80		
RMF @ MEAS TEMP	.390 @ 80		
RMC @ MEAS TEMP	.50 @ 80		
SOURCE RMF	RMC		
RM @ BHT	.220 @ 80		

LOGGING WITNESS	DRILLING CONTRACTOR
RIG NO.	NM-174
TYPE RIG	
ELEVATION	
ELEV. GROUND	
ELEV. RIG	
LOGGING UNIT NO.	
LOGGING ENGINEER	
RECORDED BY	G. Ill
WITNESSED BY	D. Reynolds
LOCATION	2 SW/4
LAST RUN OR NOW	1ST RUN
FLUID LEVEL	123'
REMARKS	

PROJECT Anderson Mine HOLE SIZE ____ ☒ AIR ☒ WATER HOLE NO. AM-175

ELEVATION ____ NORTH ____ EAST ____ LOGGED BY GM DATE Jan 26-76

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 630 P.D. ____

Foam inj @ 160'

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	0-100'					Cngl: Brn → grey, vol Frags some conglomeratic Frags, some rhyolite & welded tuff, some mudstone & sand size part. mudstone matrix, fanglomerate, calcareous
	100 → 145					siltstone: tan → Brn. primarily silt size w/ 5→10% sand and 20% mud matrix weathered, much muscovite (v.f. tr. biotite, tr. hornblend, tr. epidote, altered K-feld, rodded quartz, calcareous
	145 → 280					Mudstone/siltstone: Brn → olive green, bentonitic, Mudstone generally 50→80%, siltstones as chips, well consol some rk Frags in cngl size range (1→2%) same to lc mostly Vol. in origin (Basalt and rhyolite and agglomerate) Section generally mudstone w/ some accessory minerals of various types. chert, clear → yellow, some carbon associated w/ some yellow siltstones (humic)
	280 → 345					Limestone / chert: Lt. grey → white, much chert (10-20%) (green & white & green) some interbedded chert (massive) difficult to drill interbedded mudstones, primarily bentonite calcareous
	345 - 420					Mudstone: white → lt. grey section appears to be almost pure bentonite, some pale grey green color also, some chert, red → white, → grey calcareous
	420 → 440					Limestone: w/ some mudstone white → grey stringers of olive green mudstone, chert (red, white)
	440 → 460					siltstone: Brn → tan → grey abundant biotite, some calcite, chert, red → white, mudstone stringers (green)
	460 → 485					Mudstone: green, bentonitic
	485 → 510					ss: mg → cg, arkosic, mudstone stringers or contamination from above
	485 → 510					ss: mg → cg, arkosic, mudstone stringers or contamination from above
	510 → 590					mudstone, bentonitic, Red → green → yellow, chert, (red-white), some cg sand (contamination?)
	590 → 630					Basement:- vol. Frags mostly silicic, much muddy mudstone in upper part similar to 440→460' some basic Frags. at bottom
	TD					Agglomerate.

K Factor 2.14 X 10⁻⁹
MINERALS EXPLORATION CO.
Long Type 11-5 USGS
Name Anderson

LOCATION Anderson Mine	HOLE NO. AM-175
COUNTY Navajo STATE Arizona	CASING SIZE 10 3/4"
Sec. T. R. Gila & Salt R. B. & M.	CASING DEPTH 160'
	MUD TYPE Water
	MUD WT.
	VISCOSITY
	PH
	FLUID LOSS
	RUN NO. One
	TIME
	ADDITIONAL SURVEY
	RECORDED D. Daniel
	UNITS Eng.
	OPERATOR Mineral
	LAST R.D. OR RUN 630'
	FLUID LEVEL
	REMARKS

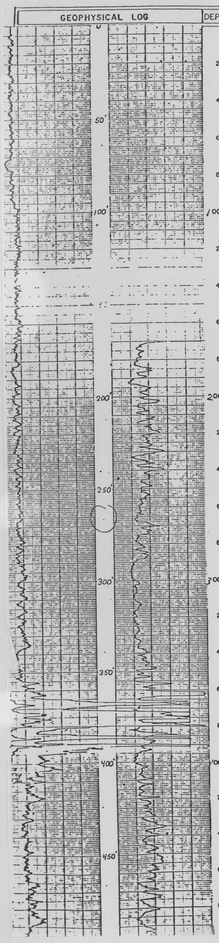
PROJECT Anderson Mine HOLE SIZE 6½-5⅜ ☒ AIR ☒ WATER HOLE NO. AM-176

ELEVATION NORTH EAST LOGGED BY GM DATE Jan 27-7

SECTION TOWNSHIP RANGE T.D. 600 P.D. 580

Foam @ 200'

GEOPHYSICAL LOG | DEPTH | P | C | A | STRIP LOG | LITHOLOGY LOG



0-95 cngl: grey-buff → Tan, vol. frags, both silicic & bas some sand, all size grains mud matrix, sand genera arkosic.
some frags of siltstone granite

95 → 260 siltstone: brown → tan w/ some greenish tinge, varying amounts of mudstone up to about 40%, much muscovite (10- (not homogenous), some sand @ 300' (5'), subarkosic, tr. biotite, tr sericite. tr chlorit section appears weathered calcareous

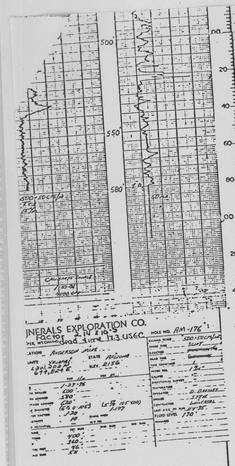
260' → 350' Mudstone: Brown → tan → bentonitic, some sand siz frags and volcanic frags (cotan and some frags of unweathered mudstone, tr. muscovite. Total for non-mudstone phase, 10%. section grades to olive gre in bottom of section. and becom less weathered. and grades into Limestone, calcareous

350' → 405 Limestone: w/ some m dst white → grey, chert, re → white, interbedded w/ mudstone (bentonite), section grades to lower mudstone

405' → 445 mudstone: olive green 10-20% non-mud frags mostly chert, (red → white

445 → 460 siltstone: brown → green, well cemented, yellow chert. mu biotite, (20%), calcareous.

460 → 570 mudstone: green, red, yellow bentonitic, much chert, red, white, and yellow



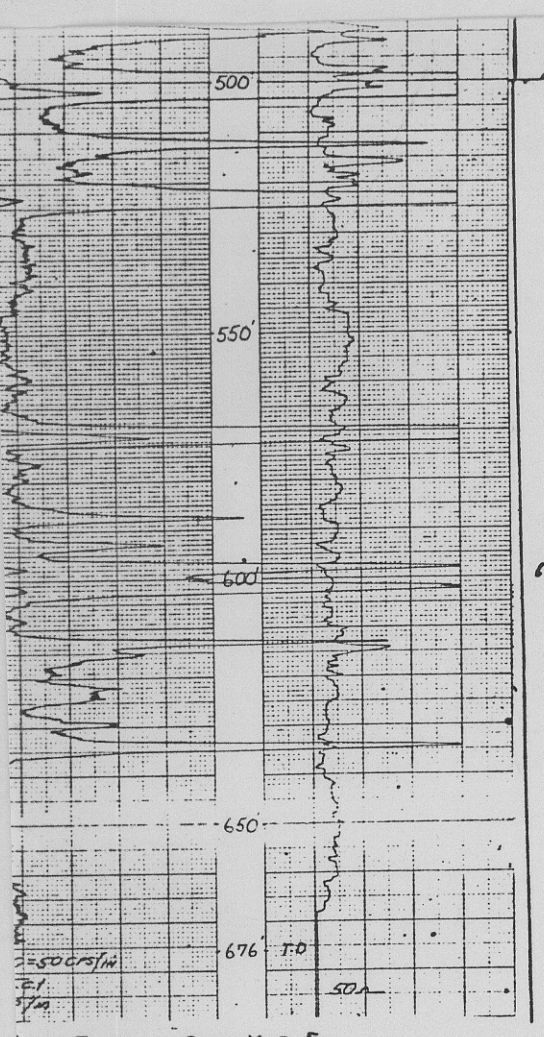
red, white, and yellow

570 → 560 Limestone / mudstone: good limestone stringers in top of section, grades to mu mudstone / less limestone in bottom of section.

Basement 560 → TD · cngl: mostly cg → Vcg, subarkosic sand, top 10, vol. frags @ 570 and down.

TD

INERALS EXPLORATION CO.
FOCTOR 1 IN 1 IN 5
Good Sure 1-3 USGC
HOLE NO. AM-176



K Factor 2.14 X 10-5

INERALS EXPLORATION CO.

ogg Time 17.3 USEC.

FER, WYOMING HOLE NO. AM-177

ATION	ANDERSON MINE	GAMMA SCALE	500=50 CPS/IN.
NTY	YAVAPAI STATE ARIZONA	PROBE TYPE	SCINT.
	1,201,940 N ELEV. 2014'	K-FACTOR	[redacted]
	693,033 E	DEAD TIME	[redacted]
	TWP. 11N RGE. 10W	TIME CONSTANT	1
		PROBE DIA.	1 11/16"
		CALIPER	—
		DIRECTIONAL SURVEY	—
		TEMPERATURE	—
		OPERATOR	D. BRADLEY
DRILLED	1-27-76	DRILLER	STAN
LOGGED	680'	CONTRACTOR	REID
LOG LOGGED	676'	LAST A.E.C. PIT RUN	11-1-75
DIAMETER	806'	FLUID LEVEL	215'
FACTOR	5 7/8	REMARKS	
	1.177		
	10. OHMS/INCH		
OTENTIAL	— M.V./IN		

	1ST. RUN	2ND. RUN	3RD. RUN
	605'	530'	
	560'	445'	
PRET.	45'	85'	
RUN	5K	10K	

490 - blue-gry siltstn/mudstn; common blk lignitic blk shale
510

510-530 blue gry calc. carb. siltstn; common blk lignitic shale; common blk silicified lignitic siltstn.

530-570 olive gra siltstn, common limonite stn on siltstn; tr of fg silty sand; tr of white bentonite: tr of blk carbonaceous siltstn.

570-590 olive gra siltstn; common limonite stn on siltstn; common blue gry carbonaceous siltstn; tr. blk lignitic shale.

590-610 blue gry calc, carbonaceous siltstn/mudstn

610-640 blue gry carbonaceous siltstn; common calcareous matl.

640-650 med brn sandy siltstn; mod calcareous.

650-680 red. brn shale; weathered volcanic material; basement

680 - T.D.

NOTE: absence of sand in lower section; fault to the west.

: much contamination at bottom of hole.

: made warm H_2O near bottom of hole.