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MINERALS EXPLORATION CO.

CASPER, WYOMING

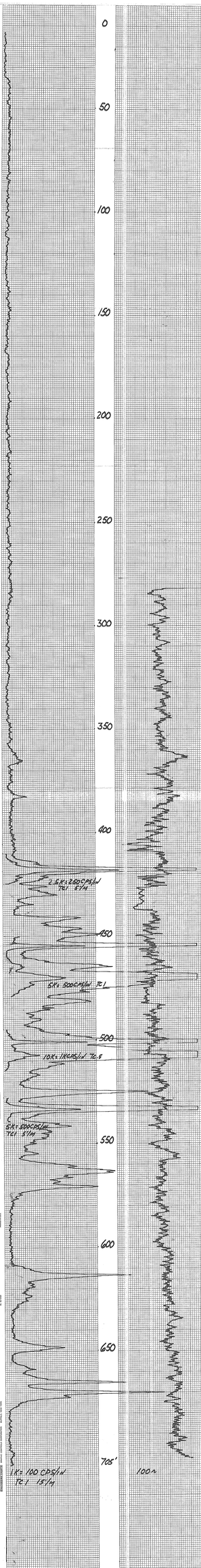
LOCATION	ANDERSEN MINE	HOLE NO.	AM 421
COUNTY	YAVAPAI	STATE ARIZONA	GAMMA SCALE	1K=100 CPS/in
GPS	1202.17.7N-6592203E	ELEV. 1903	PROBE TYPE	30MR
	(3204 N13-0543)		K-FACTOR	2.05×10^{-5}
SEC.	35 T.13 N. R.3 W.	BGE.	DEAD TIME	8 μsec
DATE	3-21-77		TIME CONSTANT	1
DEPTH DRILLED	700		PROBE DIA.	1.5 in
DEPTH LOGGED	705		CASPER	
FOOTAGE LOGGED	701		DIRECTIONAL SURVEY	
HOLE DIAMETER	5.56		TEMPERATURE	
WATER FACTOR	1.22		OPERATOR	KEMERLING
RESISTIVITY	100	OHMS/INCH	DRILLER	LUM
SELF POTENTIAL	–	M.V./IN.	CONTRACTOR	UNIVERSAL
			LAST A.I.C. PIT RUN	
			FLUID LEVEL	282'

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	580	515	679
TOP	528	495	650
TOTAL FEET	12	20	29

REMARKS:

	825		
	810		
	15		

SCALE RUN 5K=500CPS/in 10K=1MCPS/in 5K=500C 5K=500CPS/in 1K=100CPS/in



MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSON MINE
COUNTY	Yavapai
STATE	ARIZ.
GP.	~~602,200 N 632,410 E~~
ELEV.	1915
SEC.	1264 637 63N 257 33 67Bm
RGE.	
DATE	2/18/77
DEPTH DRILLED	700'
DEPTH LOGGED	701'
FOOTAGE LOGGED	756'
HOLE DIAMETER	
WATER FACTOR	
RESISTIVITY	OHMS/INCH
SELF POTENTIAL	M.V./IN.

	1ST. RUN	2ND. RUN	3RD. RUN
RERUNS			
BOTTOM	620'	475'	470'
TOP	655'	450'	415'
TOTAL FEET	15	25'	15'
SCALE RUN	1K:100 CPS/IN.	1K:100 CPS/IN.	1K:100CPS/IN.

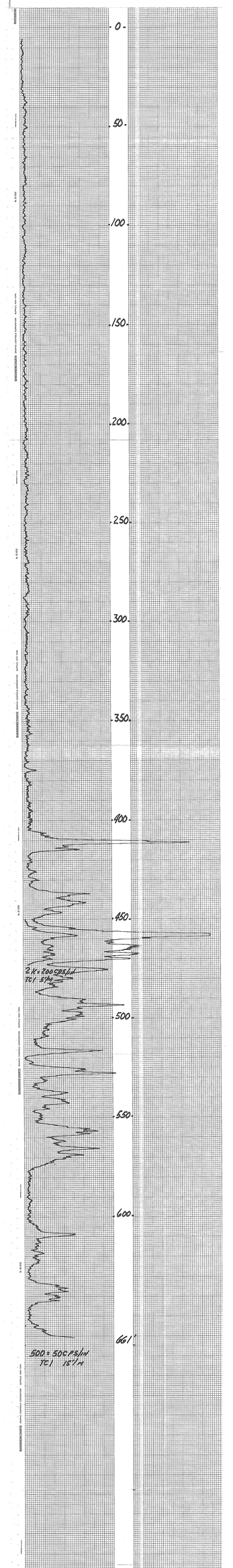
HOLE NO.	AM-422C
GAMMA SCALE	100,150,200 CPS/IN.
PROBE TYPE	POINT
K.FACTOR	5.7×10^{-5}
DEAD TIME	7.14 μsec.
TIME CONSTANT	1
PROBE DIA.	1.5"
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	Hudson
DRILLER	
CONTRACTOR	Boyles
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE	
COUNTY YAVAPAI STATE ARIZONA	
GP. 1204 637.93N 95 733.67E ELEV.	
SEC. TWP. RGE.	
DATE 2-8-77	
DEPTH DRILLED 665	
DEPTH LOGGED 661	
FOOTAGE LOGGED 2.5%	
HOLE DIAMETER 3 7/8?	
WATER FACTOR	
RESISTIVITY – OHMS/INCH	
SELF POTENTIAL M.V./IN.	
RESUME 1ST. RUN / 2ND. RUN / 3RD. RUN	
BOTTOM 473	
TOP 450	
TOTAL FEET 23	
SCALE RUN 2K=200CPS/IN	

HOLE NO.	AN-422-C
GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SOINT.
K-FACTOR	5.70×10^{-5}
DEAD TIME	7.14μ
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETTERLINK
DRILLER	DON
CONTRACTOR	BOYERS BRO
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	LOG THROUGH DRILL STEM



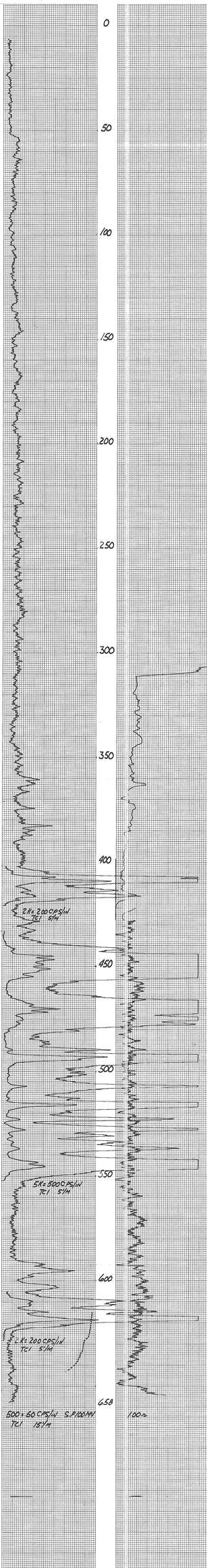
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE		
COUNTY	YAVAPAI	STATE	ARIZONA
GP ~~1202 NP4HN 639278-3 E~~ 1806 SE 7774		ELEV.	1902
SEC.	25 605	TWP.	RGE.
DATE	3-20-77		
DEPTH DRILLED	660		
DEPTH LOGGED	658		
FOOTAGE LOGGED	818		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	100	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	

REBUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	628	552	721
TOP	605	498	682
TOTAL FEET	23	119	19
SCALE RUN	2K: 200 CPS/IN	5K: 500 CPS/IN	2K: 200 CPS/IN

HOLE NO.	AM 423
GAMMA SCALE	500-500 CPS/I
PROBE TYPE	Scint
K FACTOR	8.05 X 10^-5
DEAD TIME	
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETTERLING
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	PROBE 6/12

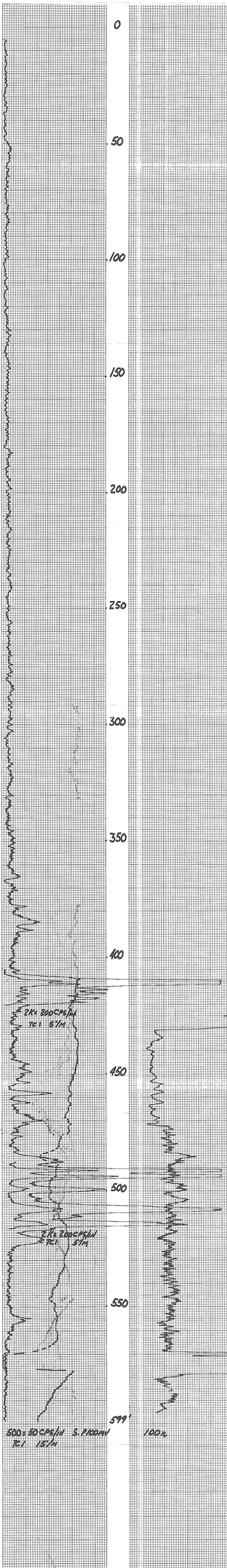


MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE	HOLE NO.	AM 424
COUNTY	YAVAPAI	STATE ARIZONA	
GP.	~~1202604N 639206.6E~~ 1205049.2N 855338.0E	ELEV. 1899	
SEC.		TWP.	RGE.
DATE	3-15-77		
DEPTH DRILLED	600		
DEPTH LOGGED	599		
FOOTAGE LOGGED	642		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	100	OHMS/INCH	
SELF POTENTIAL	100	M.V./IN.	
BEGINS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	516	600	
TOP	488	495	
TOTAL FEET	28	15	
SCALE RUN	2K=200CPS/IN	2K=200CPS/IN	

GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SCINT
K-FACTOR	5.70x10-5
DEAD TIME	7.19 μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	RATTERLINE
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	



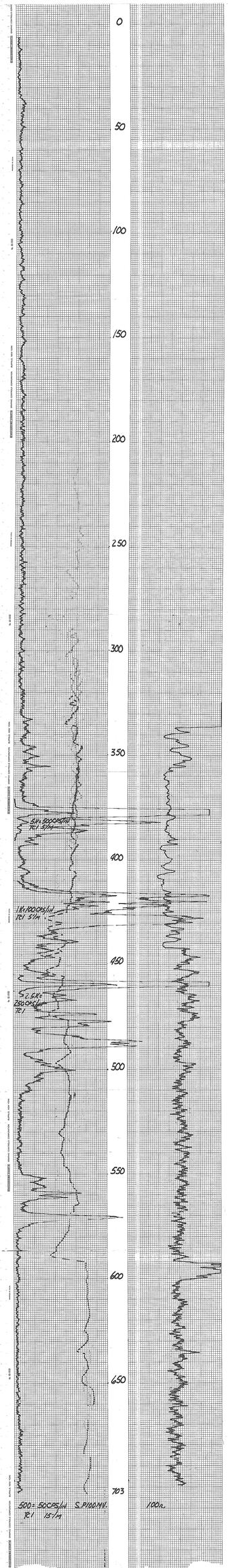
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE
COUNTY	YAVAPAI
STATE	ARIZONA
QR	~~1205771.5N 639,368.5E~~
ELEV.	1898
SEC.	1205017.3N 19,679.6E
TWP.	
RGE.	
DATE	3-17-77
DEPTH DRILLED	705
DEPTH LOGGED	704
FOOTAGE LOGGED	700
HOLE DIAMETER	5.5/8
WATER FACTOR	1.22
RESISTIVITY	100 OHMS/INCH
SELF POTENTIAL	100 M.V./IN.

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	465	925	390
TOP	455	410	371
TOTAL FEET	10	15	19
SCALE RUN	2.5K: 250CPS/IN 1K: 100CPS/IN	5K: 500CPS/IN	

HOLE NO.	AM 428
GAMMA SCALE	500:50CPS/IN
PROBE TYPE	SCINT
K-FACTOR	5.70×10^{-5}
DEAD TIME	7.18 μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETCHUM &
DRILLER	JOE
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	

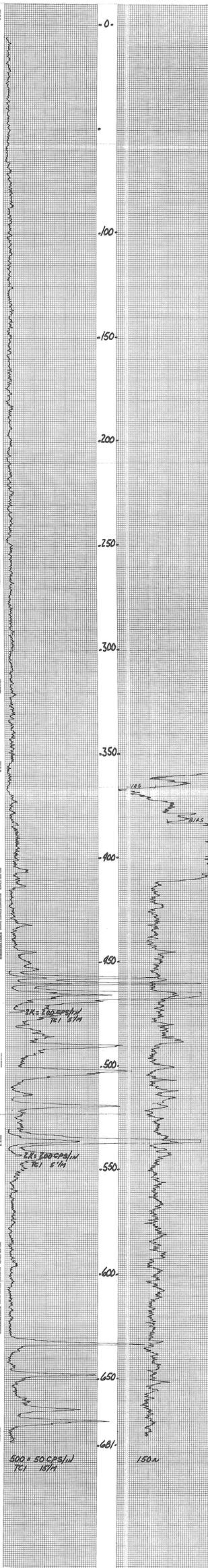


MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE		
COUNTY	YAVAPAI	STATE	ARIZONA
GP.	~~1,204,160.2N-413,080.8~~ 1203945.982	ELEV.	2035
SEC.	89	TWP. 393.976	RGE.
DATE	1-25-77		
DEPTH DRILLED	700		
DEPTH LOGGED	681		
FOOTAGE LOGGED	728		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	100	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	593	674	
TOP	530	559	
TOTAL FEET	13	20	
SCALE RUN	2K=200CPS/IN	2K=200CPS/IN	

HOLE NO.	AM 826
GAMMA SCALE	500=50CPS/in
PROBE TYPE	SOINT.
K-FACTOR	5.70x10-5
DEAD TIME	7.18 μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	RETTER/NG
DRILLER	ROSS
CONTRACTOR	RSD/S
LAST A.C. PIT RUN	
FLUID LEVEL	
REMARKS:	



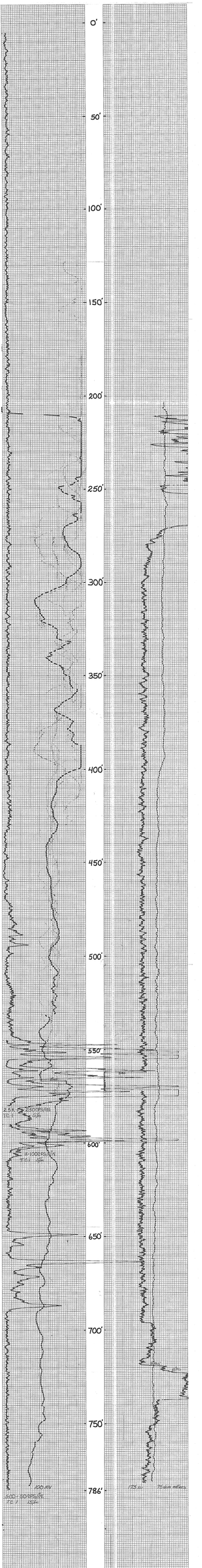
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSON MINE
COUNTY	UINTAH
STATE	ARIZ.
QR.	120 FSL 1520 FEL SE SW-1/4
ELEV.	
SEC.	
TWP.	
RGE.	
DATE	2/18/77
DEPTH DRILLED	929'
DEPTH LOGGED	786'
FOOTAGE LOGGED	836'
HOLE DIAMETER	3⅞" to 787'
WATER FACTOR	1
RESISTIVITY	175 OHMS/METER 75 ohm meters
SELF POTENTIAL	100 M.V./MM.

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	605'	580'	
TOP	570'	545'	
TOTAL FEET	15'	35'	
SCALE RUN	1X-100 CPS/IN.	2.5X-250CPS/IN.	

HOLE NO.	AM-427C
GAMMA SCALE	500-50CPS/IN
PROBE TYPE	50 NK
REACTOR	5.7 10⁹
DEAD TIME	7.15 μ sec.
TIME CONSTANT	1
PROBE DIA.	1⅝"
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	HUDSON
DRILLER	Davies
CONTRACTOR	Roberts
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS	



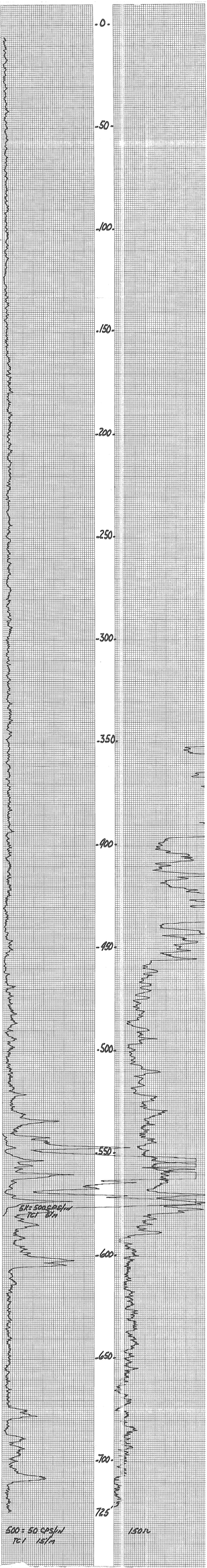
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE	HOLE NO.	AM 128
COUNTY	YAVAPAI STATE ARIZONA	GAMMA SCALE	500=50CPS
	1203 FT NLY 812 FT WLY	PROBE TYPE	SCINT.
QP.	~~(201.33 NN-6475.8 N~~ ELEV. 2072	K-FACTOR	5.70X10-5
		DEAD TIME	7.14 μm
		TIME CONSTANT	1
SEC.	TWP. RGE.	PROBE DIA.	1 5/8
DATE	1-26-77	CALIPER	
DEPTH DRILLED	740	DIRECTIONAL SURVEY	
DEPTH LOGGED	725	TEMPERATURE	
FOOTAGE LOGGED	765	OPERATOR	KETCHUM
HOLE DIAMETER	5 5/8	DRILLER	KRUS
WATER FACTOR	1.22	CONTRACTOR	REID 1 S
RESISTIVITY	150 OHMS/INCH	LAST A.I.C. PIT RUN	
SELF POTENTIAL	M.V./IN.	FLUID LEVEL	

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	580		
TOP	590		
TOTAL FEET	90		
SCALE RUN	5X=500CPS/IN		

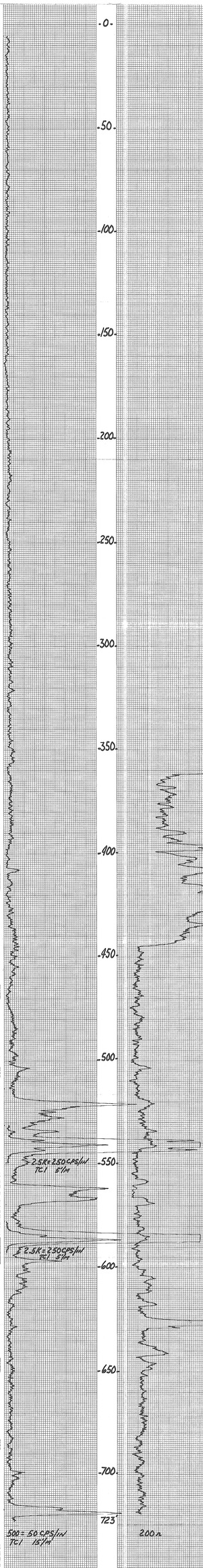
REMARKS:



MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE		HOLE NO.	AM 429
		GAMMA SCALE	500:50 CPS
COUNTY YAVAPAI	STATE ARIZONA	PROBE TYPE	SCINT.
GP. (20) 1037.50 N 2934.50 E / (20) 1041.51 N 2943.98 W	ELEV. 2058	K FACTOR	5.70 x 10-5
		DEAD TIME	7.18 μs
		TIME CONSTANT	1
SEC. TWP. RGE.		PROBE DIA.	1 5/8
DATE	2-1-77	CALIPER	
DEPTH DRILLED	725	DIRECTIONAL SURVEY	
DEPTH LOGGED	723	TEMPERATURE	
FOOTAGE LOGGED	761	OPERATOR	KCTR Rlinc
HOLE DIAMETER	5 5/8	DRILLER	Jim
WATER FACTOR	1.22	CONTRACTOR	UNIVERSAL
RESISTIVITY	200 OHMS/INCH	LAST A.E.C. PIT RUN	
SELF POTENTIAL	M.V./IN.	FLUID LEVEL	362
RERUNS	1ST. RUN / 2ND. RUN / 3RD. RUN	REMARKS:	
BOTTOM	592 / 589		
TOP	572 / 531		
TOTAL FEET	20 / 18		
SCALE RUN	2.5K=250CPS/in 2.5K=250CPS/in		

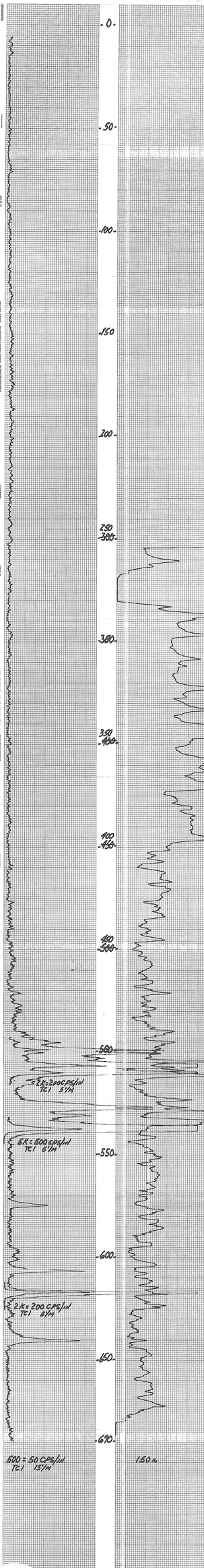


MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSON MINE	HOLE NO.	2M 930
COUNTY	YAVAPAI STATE ARIZONA	GAMMA SCALE	500=500CPS/in
GP.	~~1200 DEPTH CHAIRLINE~~ ELEV. 2032	PROBE TYPE	Scint
SEC.	1204 036 054 89 470 0.20Mw. RGE.	K-FACTOR	5.70x10-5
DATE	1-28-77	DEAD TIME	7.1 μs
DEPTH DRILLED	700	TIME CONSTANT	1
DEPTH LOGGED	690	PROBE DIA.	1 5/8
FOOTAGE LOGGED	730	CALIPER	
HOLE DIAMETER	5 5/8	DIRECTIONAL SURVEY	
WATER FACTOR	1.22	TEMPERATURE	
RESISTIVITY	150 OHMS/INCH	OPERATOR	BETTCRLINE
SELF POTENTIAL	M.V./IN.	DRILLER	RICE
		CONTRACTOR	RICO # 5
		LAST A.I.C. PIT RUN	
		FLUID LEVEL	
		REMARKS:	

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	625	545	515
TOP	0/2	532	493
TOTAL FEET	13	13	22
SCALE RUN	2K=2000CPS/in	5K=5000CPS/in	2K=2000CPS/in

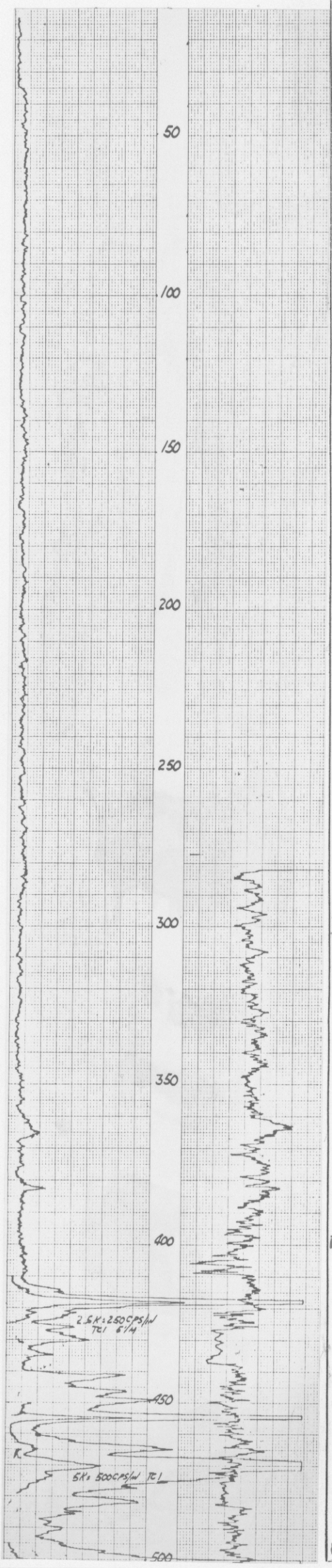


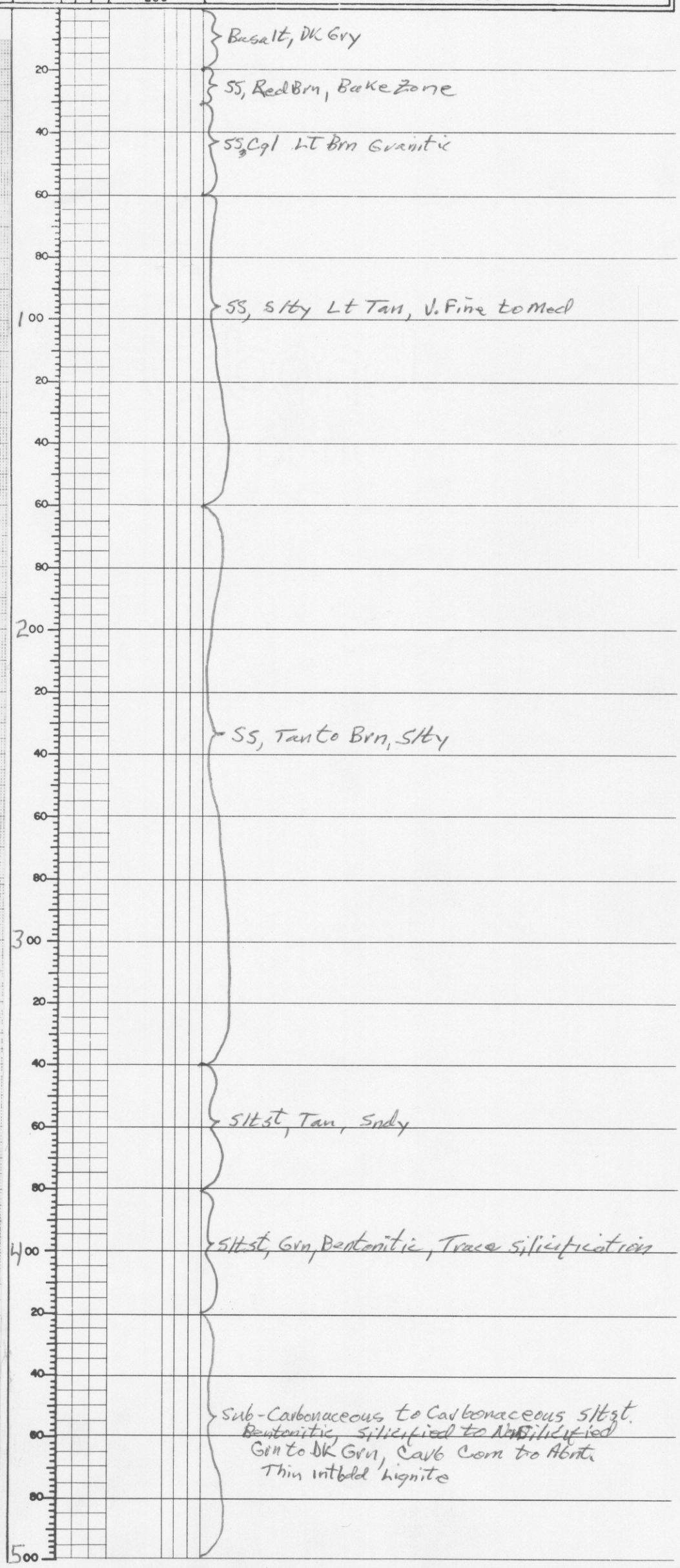
PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 421

ELEVATION 1903 NORTH 1,202,171.9 EAST 639,220.3 LOGGED BY C 2H DATE 3-21-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 700 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG





Basalt, DK Gry

SS, Red Brn, Bake Zone

SS, Cgl Lt Brn Granitic

SS, Slty Lt Tan, V. Fine to Med

SS, Tan to Brn, Slty

Sltst, Tan, Sndy

Sltst, Grn, Bentonitic, Trace Silicification

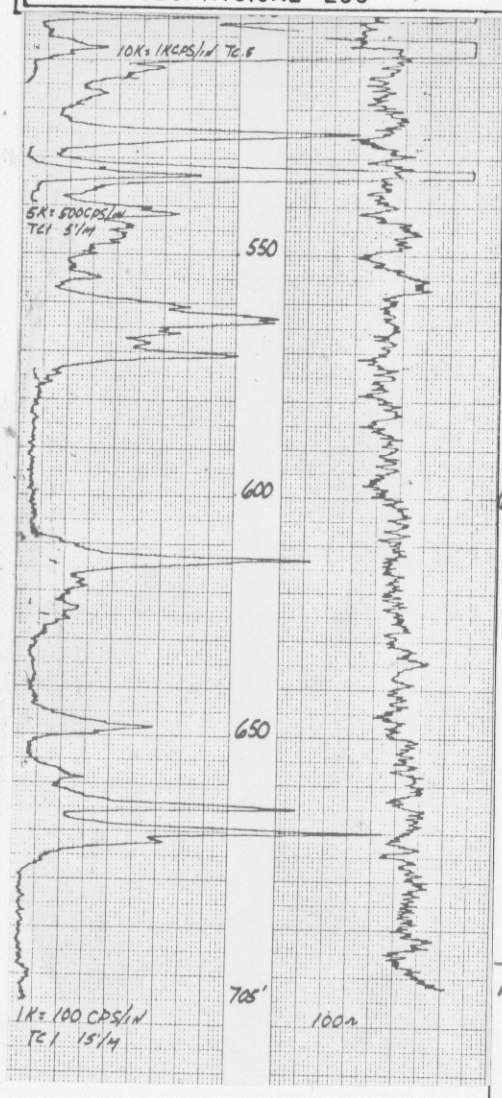
Sub-Carbonaceous to Carbonaceous Sltst. Bentonitic, Silicified to Non Silicified Grn to DK Grn, Carb Com to Abnt. Thin intbdd Lignite

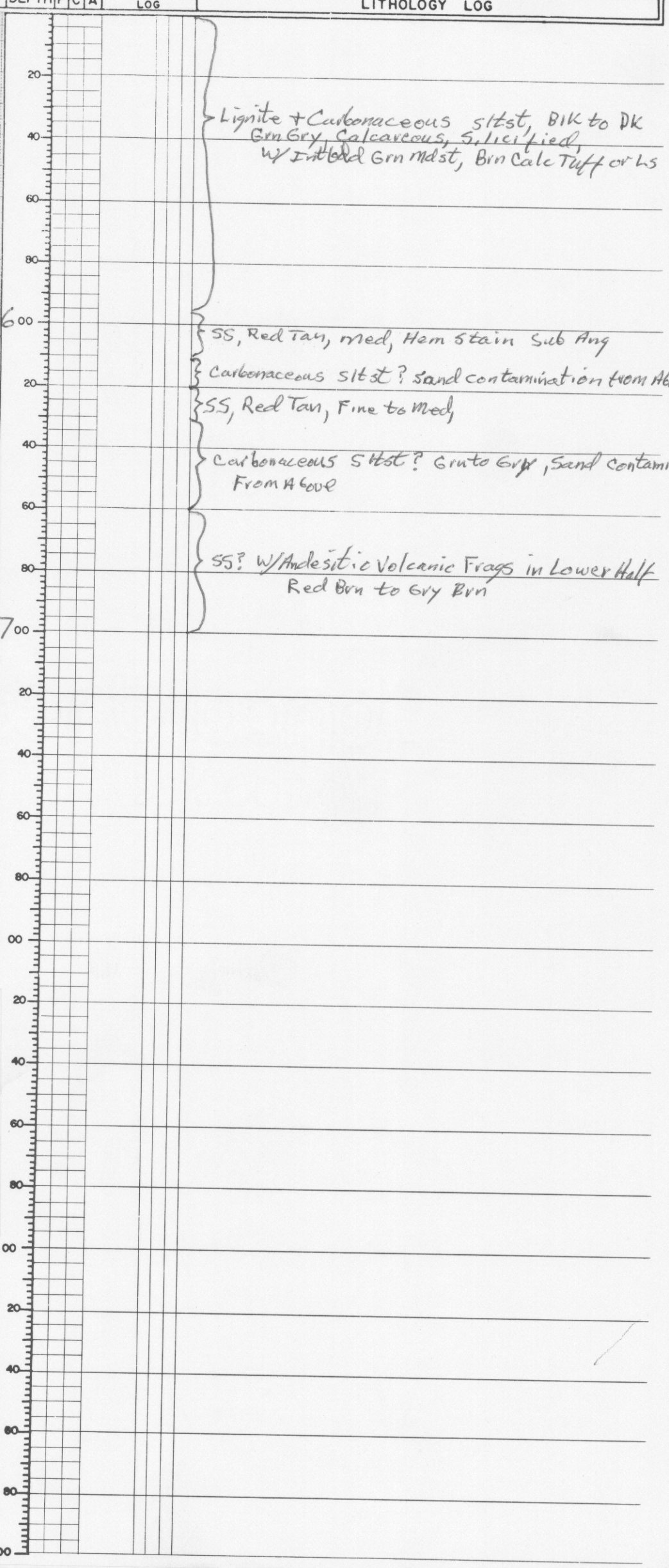
PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM421

ELEVATION 1903 NORTH 1,202,171.9 EAST 639,220.3 LOGGED BY CZH DATE 3-21-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 700 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG





MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE				HOLE NO.	AM 421
COUNTY YAVAPAI	STATE ARIZONA			GAMMA SCALE	1K=100CPS/in
GP.1202,171.9N-639,220.3E	ELEV. 1903			PROBE TYPE	SCINT.
				K-FACTOR	2.05 x 10-5
SEC.	TWP.	RGE.		DEAD TIME	8 μs
				TIME CONSTANT	1
				PROBE DIA.	1 5/8
DATE	3-21-77			CALIPER	
DEPTH DRILLED	700			DIRECTIONAL SURVEY	
DEPTH LOGGED	705			TEMPERATURE	
FOOTAGE LOGGED	781			OPERATOR	HERALING
HOLE DIAMETER	5 5/8			DRILLER	JIM
WATER FACTOR	1.22			CONTRACTOR	UNIVERSAL
RESISTIVITY	100	OHMS/INCH		LAST A.E.C. PIT RUN	
SELF POTENTIAL	–	M.V./IN.		FLUID LEVEL	282'
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN	REMARKS:	
BOTTOM	540	515	479	425	
TOP	528	495	450	410	
TOTAL FEET	12	20	29	15	
SCALE RUN	5K=500CPS/in	10K=1KCPS/in	5K=500CPS/in	2.5K=250CPS/in	

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-422C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915 FT

PAGE 1 OF 9

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	LIFT & CORE RECOVERY (%)	RQD (%)	DESCRIPTION OF ROCK DEFECTS	CONDITION OF CORE
BASALT	GRAY, APNANITIC WITH FLECKS OF IRON IOXIDE				
	FRESH FROM START OF CORING	100	59		
		100	63		
		100	65		
	BROKEN ZONE RECEMENTED WITH CALCITE OPEN OR SANDY VOIDS	54	18		
CONGLOMERATE	APPEARS TO BE A LIGHT BROWN TO BROWN CONGLOMERATE WITH WEAK SANDY MATRIX				
	NO CORE	0	0		
	NO CORE, FEW GNEISSIC PEBBLES RECOVERED	0	0		
SANDSTONE	MEDIUM TO COARSE, LIGHT BROWN SANDSTONE WITH TRACE SILT, CLAY SOME PEBBLES	40	0	VERY WEAK	
		12	0		
CONGLOMERATE	PEBBLE CONGLOMERATE WITH SAND, SILT, AND CLAY	8	0		
SANDSTONE	FINE TO MEDIUM SANDS IN CLAY-SILT MATRIX WITH SOME PEBBLES	40	30		
	NO CORE	0	0		
CONGLOMERATE	PEBBLE/COBBLE CONGLOMERATE WITH SOME CALCITE CEMENT	8	0		
	COBBLE/PEBBLE CONGLOMERATE WITH FINE TO MEDIUM SAND, SOME SILT, LOWER ZONE STRONG CALCITE CEMENT	34	25		

WATER LEVEL

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-2A

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

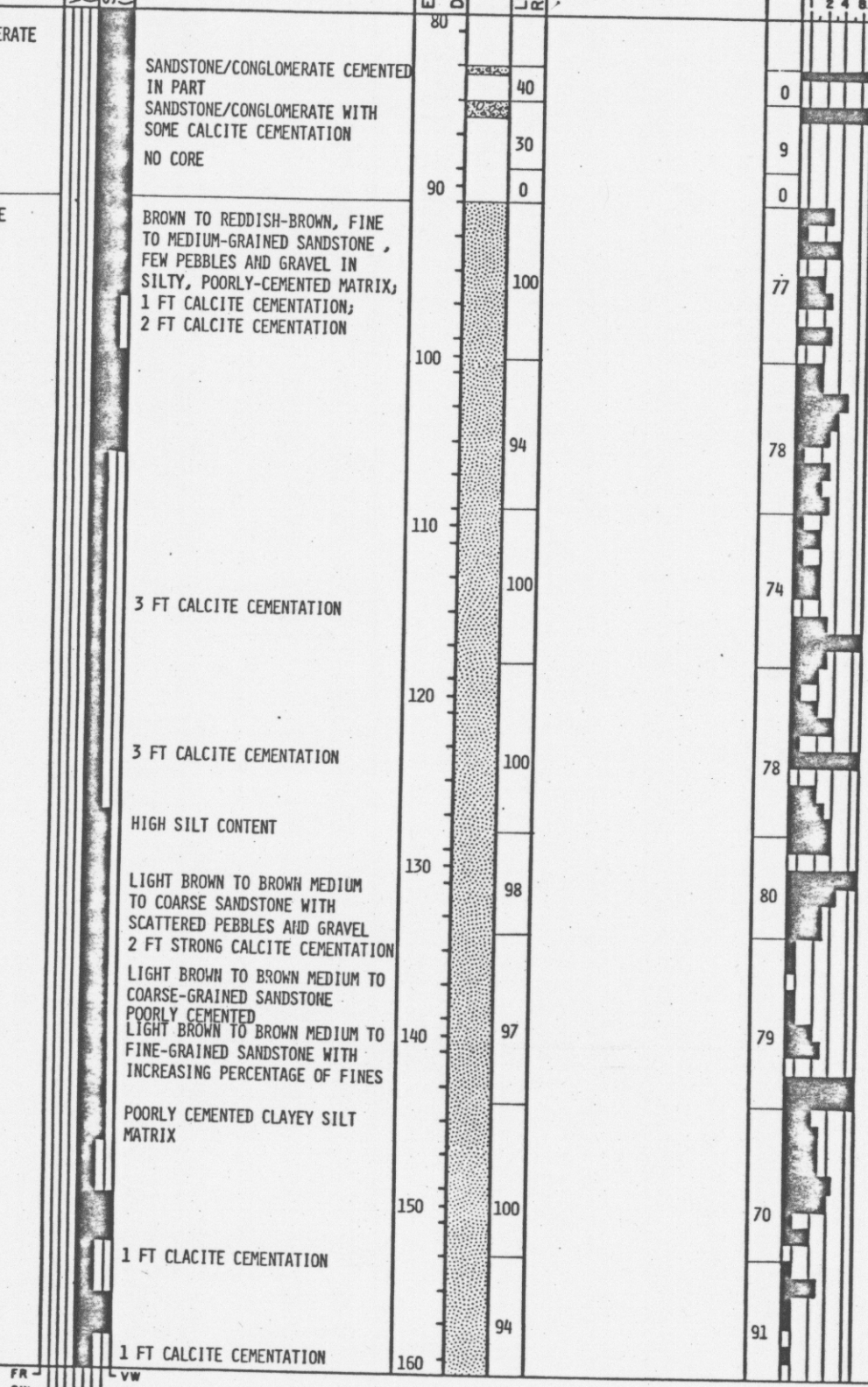
BORING NO. AM-422C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

PAGE 2 OF 9

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION / DEPTH	LIFT & CORE RECOVERY (%)	RQD
CONGLOMERATE	SANDSTONE/CONGLOMERATE CEMENTED IN PART	80	40	0
	SANDSTONE/CONGLOMERATE WITH SOME CALCITE CEMENTATION		30	9
	NO CORE	90	0	0
SANDSTONE	BROWN TO REDDISH-BROWN, FINE TO MEDIUM-GRAINED SANDSTONE, FEW PEBBLES AND GRAVEL IN SILTY, POORLY-CEMENTED MATRIX; 1 FT CALCITE CEMENTATION; 2 FT CALCITE CEMENTATION		100	77
		100	94	78
	3 FT CALCITE CEMENTATION	110	100	74
	3 FT CALCITE CEMENTATION	120	100	78
	HIGH SILT CONTENT	130	98	80
	LIGHT BROWN TO BROWN MEDIUM TO COARSE SANDSTONE WITH SCATTERED PEBBLES AND GRAVEL 2 FT STRONG CALCITE CEMENTATION			
	LIGHT BROWN TO BROWN MEDIUM TO COARSE-GRAINED SANDSTONE POORLY CEMENTED			
	LIGHT BROWN TO BROWN MEDIUM TO FINE-GRAINED SANDSTONE WITH INCREASING PERCENTAGE OF FINES	140	97	79
	POORLY CEMENTED CLAYEY SILT MATRIX	150	100	70
	1 FT CLACITE CEMENTATION		94	91
	1 FT CALCITE CEMENTATION	160		



LOG OF BORING

DAMES & MOORE

PLATE A-2B

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-422C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

PAGE 3 OF 9

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION / DEPTH	LIFT & CORE RECOVERY (%)	RQD	DESCRIPTION OF ROCK DEFECTS
SANDSTONE	LIGHT BROWN TO BROWN SANDSTONE WITH CALCAREOUS CEMENT	160			
CLAYSTONE	DARK BROWN SILTY CLAYSTONE WITH FEW SMALL CALCAREOUS PEBBLES		100	67	
SANDSTONE	BROWN FINE TO COARSE-GRAINED SANDSTONE WITH LITTLE FINE MATRIX MATERIAL OR CEMENTATION	170			
	1 FT CALCITE CEMENTATION		100	70	
	1 FT CALCITE CEMENTATION	180			
	FINE TO MEDIUM-GRAINED SANDSTONE INCREASINGLY SILTY MATRIX		98	71	
		190			
			97	79	
	FINE-GRAINED SILTY SANDSTONE WITH THIN CLAYSTONE SEAMS	200			
			100	68	
	1 FT CALCITE CEMENTATION	210			
	3 FT CLAYSTONE SEAM		92	86	
	FINE TO MEDIUM-GRAINED SANDSTONE IN SILTY MATRIX		94	54	SOME CORE LOST IN REMOVING CORE FROM BARREL
	LIGHT BROWN FINE TO MEDIUM-GRAINED SANDSTONE WITH LITTLE FINE MATRIX MATERIAL OR CEMENTATION	220			
			94	23	
		230			
	1 FT CALCITE CEMENTATION				
	LIGHT BROWN TO BROWN FINE TO MEDIUM-GRAINED SANDSTONE WITH SILTY CLAY MATRIX		97	75	
		240			

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

FRACTURES PER FOOT: 2, 4, 8

CONDITION OF CORE

WATER LEVEL

LOG OF BORING

DAMES & MOORE

PLATE A-2C

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

BORING NO. AM-422 C

ANGLE FROM HORIZONTAL 90°

PAGE 4 OF 9

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION	LIFT & CORE RECOVERY (%)	RQD
SANDSTONE	1 FT CALCITE CEMENTATION	240		
			100	68
		250		
	LIGHT BROWN, VERY FINE TO FINE-GRAINED SANDSTONE WITH CLAYEY SILTY MATRIX		94	74
	MEDIUM TO COARSE-GRAINED SANDSTONE WITH LITTLE MATRIX MATERIAL			
	LIGHT GREEN TO BROWN, FINE TO MEDIUM-GRAINED SANDSTONE	260		
SILTSTONE	LIGHT GREEN SILTSTONE		100	79
SANDSTONE	LIGHT BROWN TO LIGHT GREEN VERY FINE TO FINE-GRAINED SANDSTONE WITH CLAYEY/SILTY MATRIX			
	1 FT CALCITE CEMENTATION	270		
SILTSTONE	LIGHT GREEN SILTSTONE WITH LIGHT GREEN TO LIGHT BROWN, VERY FINE TO FINE SAND		100	94
			82	64
		280		
	INCREASING SAND CONTENT		100	90
SANDSTONE	LIGHT BROWN TO LIGHT GREEN, VERY FINE TO FINE SANDSTONE WITH SILTY MATRIX	290		
	GRADES SILTIER		100	90
		300		
	1 FT CALCITE CEMENTATION		93	52
		310	100	100
	SLIGHTLY CALCAREOUS			
SILTSTONE	LIGHT GREEN, CLAYEY SILTSTONE		100	96
SANDSTONE		320		

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

GRAPHIC LOG

FRACTURES PER FOOT: 1 2 4 8

CONDITION OF CORE

WATER LEVEL

DESCRIPTION OF ROCK DEFECTS

LOG OF BORING

DAMES & MOORE

PLATE A-2D

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

BORING NO. AM-422C

ANGLE FROM HORIZONTAL 90°

PAGE 5 OF 9

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT (1 2 4 8)	CONDITION OF CORE	WATER LEVEL
SANDSTONE			LIGHT GREEN TO LIGHT BROWN FINE-GRAINED SILTY SANDSTONE	320							
			DECREASING MATRIX FINES CONTENT			100		56			
			2 FT CALCITE CEMENTATION	330							
						99		91			
			INCREASING LIGHT GREEN SILT CONTENT	340							
			1 FT WEAK CALCITE CEMENTATION								
SILTSTONE			TOP OF LACUSTRINE SEDIMENTS LIGHT GREEN SILTSTONE WITH A LITTLE VERY FINE SAND			100	BREAKS ARE GENERALLY BEDDING PLANE FRACTURES WITH SOME BREAKAGE ALONG PERPENDICULAR JOINTING	95			
				350		100		100			
						100		50			
			3 FT SILICA AND CALCITE CEMENTATION								
						95		86			
				360							
			15 FT SILICA AND CALCITE CEMENTATION								
						100		79			
				370							
						100		77			
				380							
			GREEN TO DARK GREEN, VERY FINE TO FINE SANDY SILTSTONE DECREASING SAND CONTENT			97		92			
				390							
			INCREASING CLAY CONTENT SEVERAL THIN CLAYSTONE SEAMS								
						97		84			
CLAYSTONE			LIGHT GREEN SILTY CLAYSTONE	400							

FR, SW, MW, HW, XW — VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-2E

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-422 C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

PAGE 6 OF 9

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION / DEPTH	LIFT & CORE RECOVERY (%)	RQD
CLAYSTONE		400		
SILTSTONE	LIGHT GREEN CLAYEY SILTSTONE			
CLAYSTONE	DARK GREEN SILTY CLAYSTONE			
SILTSTONE	CLAYEY SILTSTONE 6 FT CARBONACEOUS ZONE	410	100	71
	LIGHT GREEN CLAYEY SILTSTONE			
	1 FT SILICIFIED ZONE	420	85	80
	INCREASING SILICIFICATION 1 FT INTENSE SILICIFICATION DECREASING SILICIFICATION		100	79
	1 FT CARBONACEOUS ZONE INCREASING CLAY CONTENT	430	100	89
CLAYSTONE	DARK TO LIGHT GREEN CLAYSTONE	440		
SILTSTONE	LIGHT GREEN CLAYEY, SILICIFIED SILTSTONE CARBONACEOUS FOR 8 FT 1 FT LIGNITE ZONE 1 FT CALCITE CEMENTATION 1 FT CARBONACEOUS ZONE 14 FT CALCITE CEMENTATION WITH WEAK SILICIFICATION	450	100	93
		460	100	56
			100	85
	LIGHT GREEN SILTSTONE INCREASING CLAY CONTENT	470	96	95
		480		

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

FRACTURES PER FOOT: 1, 2, 4, 8

CONDITION OF CORE

WATER LEVEL

LOG OF BORING

DAMES & MOORE

PLATE A-2F

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-422 C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

PAGE 7 OF 9

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION / DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT (2 4 8)	CONDITION OF CORE	WATER LEVEL
SILTSTONE			LIGHT TO DARK GREEN, CLAYEY SILTSTONE	480		100		70			
			INCREASING CLAY CONTENT 9 FT CARBONACEOUS ZONE 1 FT LIGNITE ZONE	490		100		94			
			DARK GREEN SILTSTONE WITH VERY THIN BANDS OF DARK GREEN CLAY	500		100		66			
			8 FT CARBONACEOUS, LIGHT GREEN SILTSTONE 1 FT LIGHT GREEN CLAYSTONE	510		100		77			
			2 FT LIGHT BROWN CALCAREOUS SILTSTONE 1 FT LIGNITE ZONE 1 FT CALCITE CEMENTATION	520		83		69			
			1 FT LIGNITE ZONE 3 FT CALCITE CEMENTATION	530		100		83			
			CARBONACEOUS SILTSTONE, LIGHT GREEN TO LIGHT GRAY AND GREEN TO BLACK 4 FT LIGNITIC ZONE	540		100		74			
			1 FT LIGNITIC ZONE 1 FT CALCITE CEMENTATION 3 FT CALCITE CEMENTATION	550		100		50			
			1 FT LIGNITIC ZONE DECREASING CARBONACEOUS MATERIAL DARK GREEN SILTSTONE WITH VERY FINE SAND	560		100		87			

FR, SW, MW, HW, XW — VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-2G

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-422C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

PAGE 8 OF 9

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION / DEPTH	LIFT & CORE RECOVERY (%)	RQD
SILTSTONE	INCREASING CLAY CONTENT	560		
	DARK GREEN SILTSTONE WITH ABUNDANT CLAY		95	86
		570		
	INCREASING CONTENT OF FINE-GRAINED SAND		100	91
	LIGHT GREEN TO LIGHT BROWN SANDY SILTSTONE, SOME CLAY			
	DECREASING CLAY CONTENT, INCREASING FINE SAND	580		
SANDSTONE	LIGHT BROWN VERY FINE TO MEDIUM-GRAINED SANDSTONE		100	82
		590		
	1 FT CALCITE CEMENTATION		100	81
	1 FT BROWN TO YELLOW CLAYSTONE	600		
SILTSTONE	LIGHT GREEN TO GREEN, VERY FINE TO FINE-GRAINED, SANDY SILTSTONE		96	87
	1 FT LIGHT GREEN CLAYSTONE			
	INCREASING GRAIN-SIZE SAND	610		
	1 FT CARBONACEOUS ZONE		100	89
		620		
SANDSTONE	LIGHT BROWN VERY FINE TO FINE-GRAINED SANDSTONE		100	76
	3 FT CALCITE CEMENTATION	630		
	1 FT MAROON TO DARK GREEN CLAYSTONE			
SILTSTONE	GREEN VERY FINE TO FINE-GRAINED SANDY SILTSTONE		100	74
		640		

DESCRIPTION OF ROCK DEFECTS

FRACTURES PER FOOT: 1 2 4 8

CONDITION OF CORE

WATER LEVEL

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-2H

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-422C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,202,200.8 E 639,410.1 ELEV. 1915

PAGE 9 OF 9

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION / DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT (2 4 8)	CONDITION OF CORE	WATER LEVEL
SILTSTONE				640							
SANDSTONE			LIGHT BROWN TO LIGHT AND DARK GREEN FINE TO MEDIUM-GRAINED SANDSTONE WITH LITTLE SILT OR CLAY			100		45			
				650							
			1 FT CARBONACEOUS SILTSTONE								
			INCREASING SILT CONTENT								
SILTSTONE			LIGHT GREEN SILTSTONE			100		80			
			8 FT CARBONACEOUS ZONE WITH SEVERAL THIN LIGNITE BANDS	660							
			DECREASING CLAY CONTENT AND INCREASING SAND CONTENT			100		71			
CONGLOMERATE			FINE TO MEDIUM, GRAY BROWN TO RED BROWN SANDSTONE CONGLOMERATE WITH SUBANGULAR TO SUBROUNDED VOLCANIC PEBBLES AND CALCAREOUS CEMENT	670							
						88		73			
				680							
						100		93			
				690							
						100		92			
			HOLE COMPLETED 2/7/77	700							

FR, SW, MW, HW, XW — VW, W, MS, S, VS

LOG OF BORING

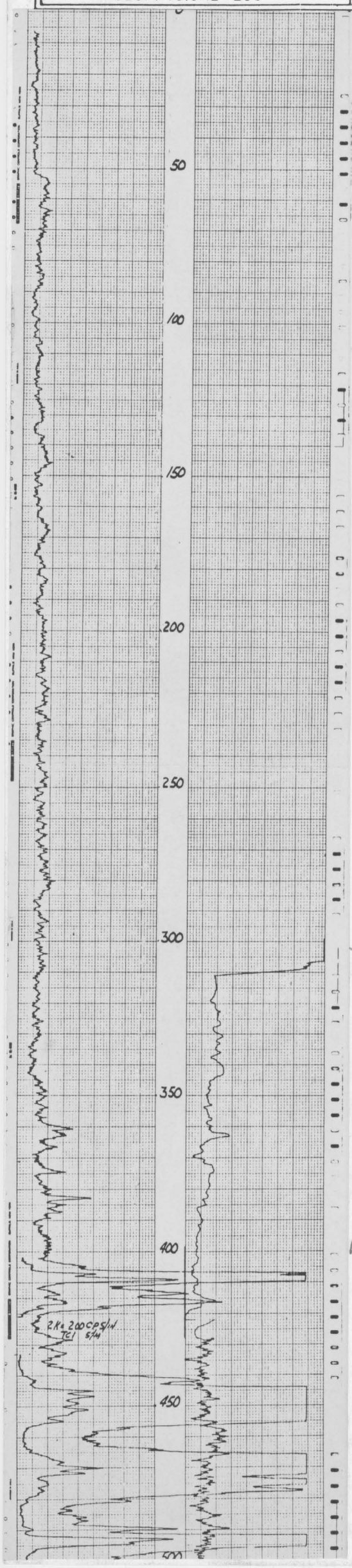
DAMES & MOORE

PLATE A-21

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 423

ELEVATION 1902 NORTH 1,202,429.4 EAST 639,278.3 LOGGED BY CZH DATE 3-20-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 660 P.D. ____



LITHOLOGY LOG

Basalt, DK Gry

cgl, Red, Brn to Brn, Granitic, Bake Zone

cgl LT Tan Calcite cmtd

SS, Tan Brn, Slty, Fine to Med,

cgl, LtTan, Granitic

SS Cgl, Slty, Tan to Brn, Med,

Sltst, Tan, Sndy

Sltst, Lt Grn, Bentonitic, Trace silicification

Sltst, Grn, Bentonitic, Trace Carb Trace Silicification

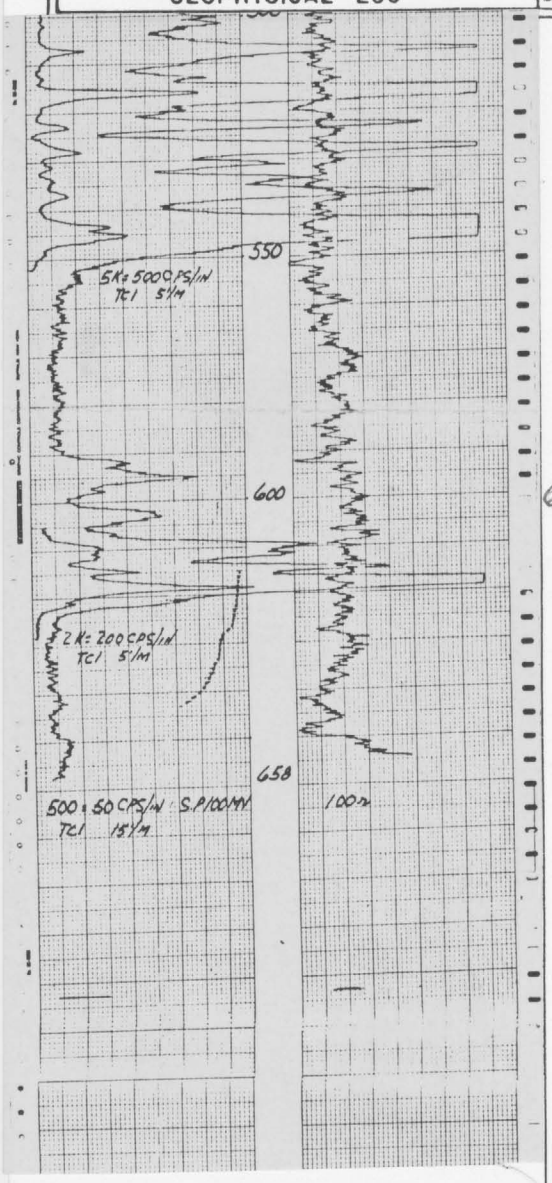
Silicified Sltst, Gry Grn, W/Grn + Gry Grn Sub-Chert

Carbonaceous Sltst, DKGrn to Gry, w/Lignitic Layers Calcareous, Silicified

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 423

ELEVATION 1902 NORTH 1,202,429.4 EAST 639,278.3 LOGGED BY CZH DATE 3-20-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 660 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	20					
	40					Carbonaceous, Sltst + Lignite, DK Gry to BLK Silicified, Calcareous, W/Brn Calc Tuff or Ls
	60					
	80					SS, Med, Red Tan to Tan, Sub Ang to Sub rnd, Sorting Poor
	600					
	20					Carbonaceous sltst + Lignite DK Gry to BLK Sndy (up hole), W/Intbdd Grn Sltst/mdst
	40					Sltst, Yel Tan to Red Brn, W/Andesitic Volcanic Frags, Red Brn to Gry Brn
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					

MINERALS EXPLORATION CO.

CASPER, WYOMING

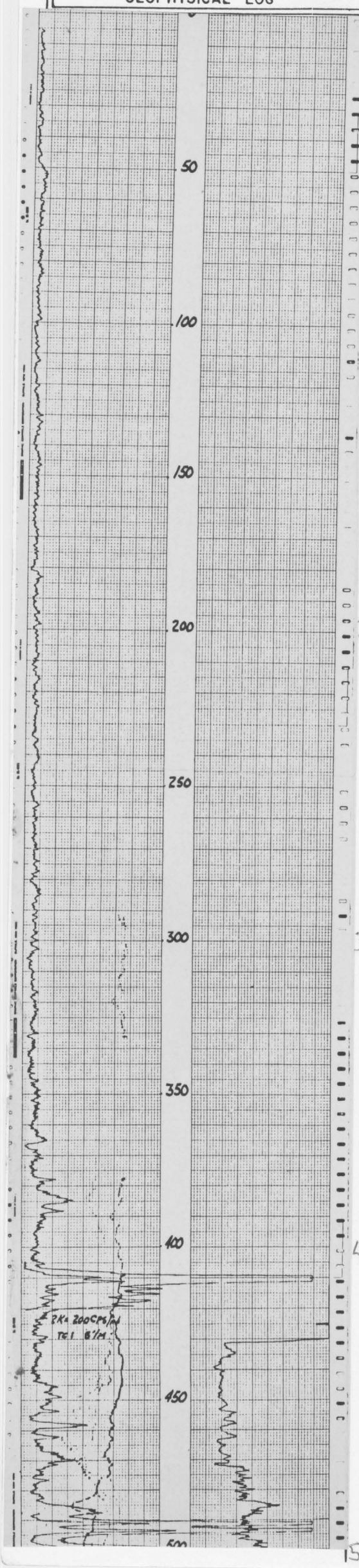
LOCATION ANDERSEN MINE			
COUNTY YAVAPAI	STATE ARIZONA		
GP. 1,202,429.4N-639,278.3E	ELEV. 1902		
SEC.	TWP.	RGE.	
DATE	3-20-77		
DEPTH DRILLED	660		
DEPTH LOGGED	658		
FOOTAGE LOGGED	819		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	100	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	628	552	921
TOP	605	433	902
TOTAL FEET	23	119	19
SCALE RUN	2K: 200CPS/IN	5K: 5000CPS/IN	2K: 200CPS/IN

HOLE NO.	AM 423
GAMMA SCALE	500: 50CPS/IN
PROBE TYPE	SCINT
K-FACTOR	2.05 X 10^-5
DEAD TIME	
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETTERLING
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	PAGE 61-3

PROJECT Anderson Mine HOLE SIZE _____ ☐ AIR ☑ WATER HOLE NO. Am H24

ELEVATION 1899 NORTH 1,202,609.0 EAST 639,206.6 LOGGED BY CZH DATE 3-15-77

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

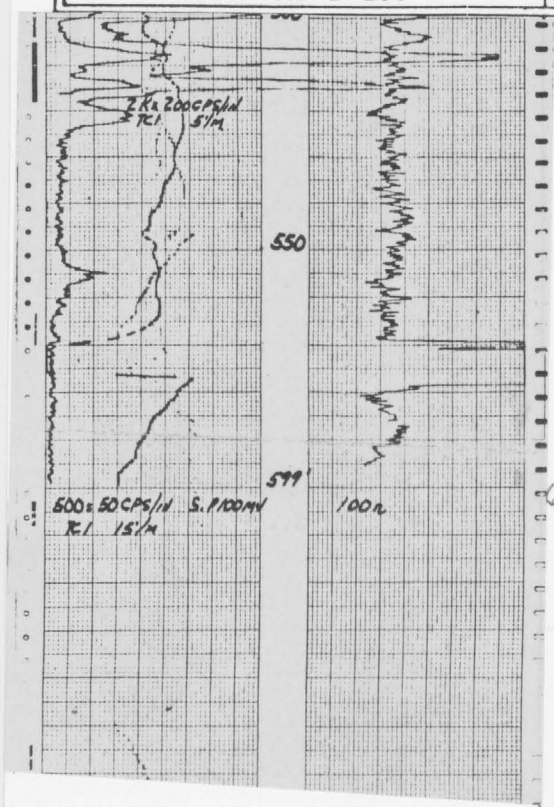


DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
20					Basalt, DK Gry
40					
60					Cgl, Red Brn to Lt Brn, Bake Zone, Granitic
80					
100					Cgl, Lt Tan to Wht, Sndy, Granitic
20					
40					SS, Slty, Grn Tan, Fine to Med SS, Brn Fine to Med, Granitic Pebs
60					
80					Cgl, Lt Tan to Tan, Granitic Slty
200					
20					
40					
60					SS Cgl, Brn, Slty, Granitic Pebs
80					
300					
20					
40					
60					Sltst, Tan to Grn Tan
80					Sltst Tan Grn Silicified Top Lake Beds
400					
20					Sltst/Mdst, Grn, Bentonitic, Trace Silicification
40					Lignite Blk Silicified W/ Intbdd Silicified Sltst
60					Silicified Sltst, Grn, W/ Thin Lignitic Layers and Grn Sub Chert.
80					Carbonaceous Sltst + Silicified Sltst Gry Grn W/ Grn to Gry Grn Sub Chert + Thin Lignitic Layers
500					Lignite + Carbonaceous Sltst, DK Gry to Blk Silicified Calc Brn Calc Tuff

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. Am 424

ELEVATION 1899 NORTH 1,202,609.0 EAST 639,206.6 LOGGED BY C. Hill DATE 3-15-77

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

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						Lignite + Carbonaceous siltst Dk Gry to Blk, Silicified, calcareous, w/Brn calc Tuff
						siltst, Tan to Brn, Sndy, No Volcanics
						siltst, Red Brn to Brn, No Volcanics
						siltst, Red Brn, Sndy } Andesitic Volcanic Frags

MINERALS EXPLORATION CO.

CASPER, WYOMING

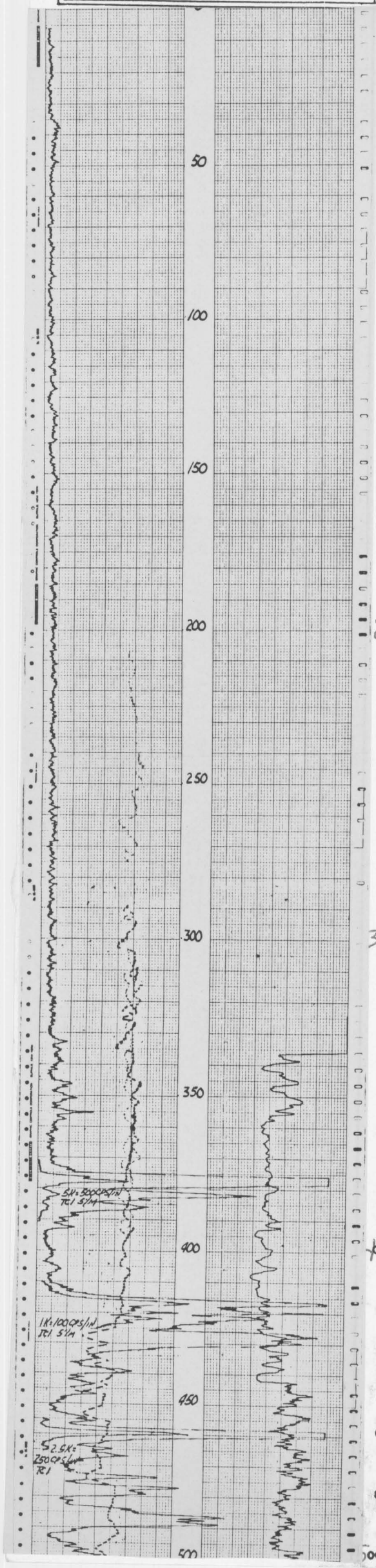
LOCATION ANDERSEN MINE			
COUNTY YAVAPAI	STATE ARIZONA		
GP. 1,202,609.0N-639,206.6E. ELEV. 1899			
SEC.	TWP.	RGE.	
DATE	3-15-77		
DEPTH DRILLED	600		
DEPTH LOGGED	599		
FOOTAGE LOGGED	692		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	100	OHMS/INCH	
SELF POTENTIAL	100	M.V./IN.	
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	516	880	
TOP	488	865	
TOTAL FEET	28	15	
SCALE RUN	2K=200CPS/in	2K=200CPS/in	

HOLE NO.	AM 424
GAMMA SCALE	500 = 50CPS/in
PROBE TYPE	Scint
K-FACTOR	5.70 x 10-5
DEAD TIME	7.1 μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	Reitering
DRILLER	Jim
CONTRACTOR	Universal
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 425

ELEVATION 1898 NORTH 1,202,579.5 EAST 639,368.5 LOGGED BY CZH DATE 3-17-77

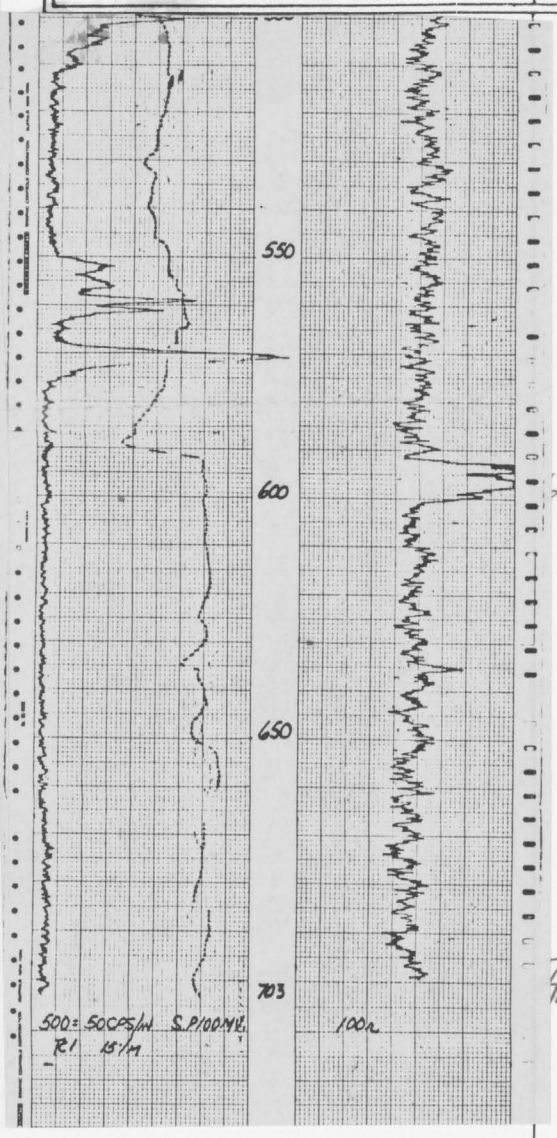
SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 705 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	0–705					Basalt, DKGry; Cgl, Red Brn, Bake Zone; Cgl, Lt Tan, Granitic, Crs to V. Crs, Calcite Cmtd; SS, Lt Tan to Tan, Silty to V. Silty; SS, Brn, V. Silty; Siltst, Tan; Tcgl-ss ?? / Ti; Siltst, Tan Grn, wht Marlst? w/ Mn stain; Siltst, Grn, Trace carb, Silicified, Grn + Gry Grn sub Chert; Carbonaceous Siltst and lignite DKGrn to Blk, Calcareous, Silicified & w/ Intbdd Grn Marst and Brn calc Tuff or Ls,

PROJECT Anderson Mine **HOLE SIZE** ____ ☐ AIR ☑ WATER **HOLE NO.** AM 425

ELEVATION 1898 **NORTH** 1,202,579.5 **EAST** 639,368.5 **LOGGED BY** CZH **DATE** 3-17-77

SECTION ____ **TOWNSHIP** ____ **RANGE** ____ **T.D.** 705 **P.D.** ____



LITHOLOGY LOG

Carbonaceous Sltst + Lignite, DK Grn to Blk, Calcareous, Silicified, W/Intbdd Grn Mdst + Brn Calc Tuff or Ls

Sltst, Grn, Silicified, Trace Carb

SS, Tan to Red Brn, Grnitic, Sub Rnd, Poor, Med to Crs, Hem stain
Maybe Channel in Volcanics?
or ?

Sltst Red Brn to Orange Brn, No Volcanics

Sltst, Red, w/ Andesitic Volcanic Frags, Red brn

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE

COUNTY YAVAPAI STATE ARIZONA

GP. 1,202,579.5N-639,368.5E ELEV. 1898

SEC.	TWP.	RGE.
DATE	3-17-77	
DEPTH DRILLED	705	
DEPTH LOGGED	704	
FOOTAGE LOGGED	748	
HOLE DIAMETER	5 5/8	
WATER FACTOR	1.22	
RESISTIVITY	100	OHMS/INCH
SELF POTENTIAL	100	M.V./IN.

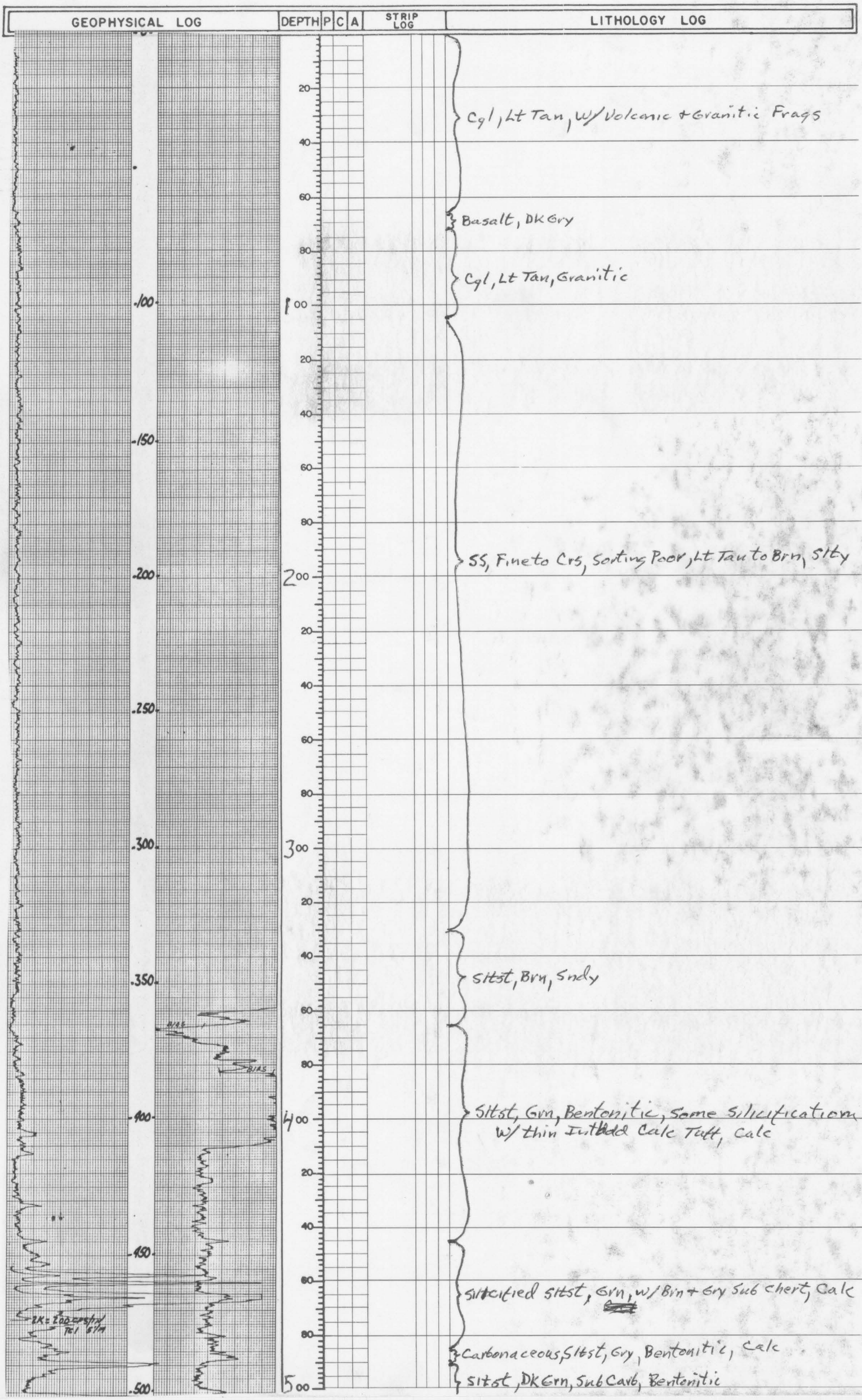
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	465	425	390
TOP	455	410	371
TOTAL FEET	10	15	19
SCALE RUN	2.5K=250CPS/IN	1K=1000CPS/IN	5K=500CPS/IN

HOLE NO.	AM 425
GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SCINT
K-FACTOR	5.70×10^{-5}
DEAD TIME	7.14 μ
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETTERLING
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 426

ELEVATION 2035 NORTH 1,201,610.2 EAST 643,080.8 LOGGED BY CZH DATE 1-25-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 700 P.D. ____

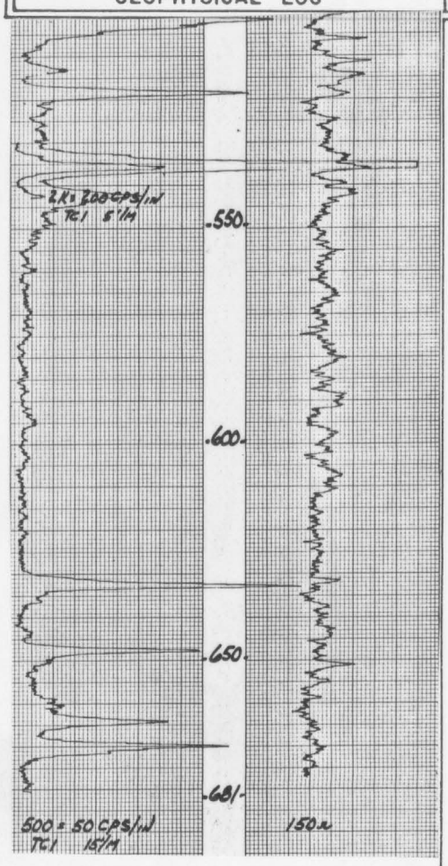


PROJECT Anderson Mine **HOLE SIZE** _____ ☐ AIR ☑ WATER **HOLE NO.** AM 426

ELEVATION 2035 **NORTH** 1,201,610.2 **EAST** 643,080.8 **LOGGED BY** CZH **DATE** 1-25-76

SECTION _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 700 **P.D.** _____

GEOPHYSICAL LOG



MINERALS EXPLORATION CO.

CASPER, WYOMING		HOLE NO.	AM 426
LOCATION ANDERSEN MINE		GAMMA SCALE	500 = 50 CPS/in
COUNTY YAVAPAI	STATE ARIZONA	PROBE TYPE	SCINT.
GP. 1,201,610.2N-643,080.8	ELEV. 2035	K-FACTOR	5.70 x 10-5
		DEAD TIME	7.19 in
		TIME CONSTANT	1
SEC.	TWP.	PROBE DIA.	1 5/8
DATE	1-25-77	CALIPER	
DEPTH DRILLED	700	DIRECTIONAL SURVEY	
DEPTH LOGGED	681	TEMPERATURE	
FOOTAGE LOGGED	724	OPERATOR	WESTERLING
HOLE DIAMETER	5 5/8	DRILLER	RGS
WATER FACTOR	1.22	CONTRACTOR	RSID S
RESISTIVITY	100 OHMS/INCH	LAST A.E.C. PIT RUN	
SELF POTENTIAL	M.V./IN.	FLUID LEVEL	

REBUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	593	474	
TOP	530	454	
TOTAL FEET	13	20	
SCALE RUN	2K: 200CPS/in	2K: 200CPS/in	

REMARKS:

DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
					Siltst, DkGrn, SubCarb, Bentonitic, Non calc
20					Carbonaceous Siltst + Lignite, DkGry to Blk, Silicified Calc.
40					Siltst, DkGrn to Gry, Carbonaceous, Calc, Silic
60					Siltst, Grn, Bentonitic, Sndy
80					SS, + Grn Bentonitic Siltst, Fine to Crs
600					
20					Siltst, Grn, Silicified, Sndy
					SS, Tan, Fine to Crs
40					Carbonaceous Siltst, DkGrn to Gry, calc
60					
80					Siltst, Grn Bentonitic
					Siltst, Tan, Sndy, w/ Andesitic Volcanic Frags, Bentonitic
700					
20					
40					
60					
80					
00					
20					
40					
60					
80					
00					
20					
40					
60					
80					
00					

GAMMA RAY LOG INTERPRETATION WORK SHEET AM-427c

Done by C W & G for Minerals Exploration Company

Date

Hole No. AM-427c	Logged by M.E.C.	Date 2/18/77	Unit No.
Property Anderson Mine	Interpreter APS	Date 8/19/77	Probe No.
Area	Unit Dead Time 7.14	Microseconds	Std. Reading
Sec. T. 11N R. 10W	K Factor .0000570		Remarks
State Arizona County Yavapai	Hole Dia. 3 1/4	In hole med.	
Company Minerals Expl. Comp.	Casing Thick. —	Rock density	
Depth Drilled 787	Correction Factor 1.07		
Depth Logged 786	Disequilibrium Ratio		
Collar Elev. ?			

Range	250 cps/inch		250 cps/inch		250 cps/inch		
Lower Boundary	555.0		565.5		575.5		
Upper Boundary	549.0		560.0		569.0		
Thickness T	6.0		5.5		6.5		
End point E_1	250		225		250		
·03 = " " E_2	250		150		225		
2(K) 265 $E_1 + E_2$	500		375		475		
1.38 ($E_1 + E_2$) = Tail Area	690		518		656		
$+I_1$	300		275		500		
$+I_2$	300		375		500		
$+I_3$	350		250		375		
etc.	325		150		200		
	850		150		375		
	500		200		1000		
	275		225		1625		
	375		225		875		
	750		225		725		
	1900		425		850		
	1375				725		
			3018		500		
	7490						
					8906		
Total Area (A)	7490		3018		8906		
AxCorr. Factor = Corr. A	8164		3290		9707		
Corr. AxK Factor=GT	.4654		.1875		.5533		
GT/T = %eU308	.078		.034		.085		
GTxDis. Ratio=True GT							
True GT/T=True %U308							

AM 427-C

GRAPHIC LOG SYMBOLS:

- CONGLOMERATE
- SANDSTONE
- SILTSTONE
- CLAYSTONE
- BASALT

ELEVATION:

REFERS TO THE GROUND SURFACE ELEVATION AT EACH BORING LOCATION.

DEGREE OF WEATHERING:

ABBREVIATION	TERM	DESCRIPTION
FR	FRESH	THE ROCK SHOWS NO DISCOLORATION, LOSS OF STRENGTH OR ANY OTHER EFFECT DUE TO WEATHERING.
SW	SLIGHTLY WEATHERED	THE ROCK IS SLIGHTLY DISCOLORED, BUT NOT NOTICEABLY LOWER IN STRENGTH THAN THE FRESH ROCK.
MW	MODERATELY WEATHERED	THE ROCK IS DISCOLORED AND NOTICEABLY WEAKENED, BUT TWO-INCH DIAMETER DRILL CORES CANNOT USUALLY BE BROKEN UP BY HAND, ACROSS THE ROCK FABRIC.
HW	HIGHLY WEATHERED	THE ROCK IS USUALLY DISCOLORED AND WEAKENED TO SUCH AN EXTENT THAT TWO-INCH DIAMETER CORES CAN BE BROKEN UP BY HAND, ACROSS THE ROCK FABRIC. WET STRENGTH USUALLY MUCH LOWER THAN DRY STRENGTH.
XW	EXTREMELY WEATHERED	THE ROCK IS USUALLY DISCOLORED AND IS ENTIRELY CHANGED TO A SOIL BUT THE ORIGINAL FABRIC OF THE ROCK IS MOSTLY PRESERVED. THE PROPERTIES OF THE SOIL DEPEND UPON THE COMPOSITION AND STRUCTURE OF THE PARENT ROCK.

STRENGTH:

ABBREVIATION	TERM	UNCONFINED COMPRESSIVE STRENGTH
VW	VERY WEAK	< 1,000 PSI
W	WEAK	1,000 – 3,000 PSI
MS	MODERATELY STRONG	3,000 – 10,000 PSI
S	STRONG	10,000 – 25,000 PSI
VS	VERY STRONG	> 25,000 PSI

LIFT AND CORE RECOVERY (%):

THE HORIZONTAL LINES SHOW THE LENGTH OF EACH CORE RUN. THE NUMBER REPRESENTS THE AMOUNT OF CORE RECOVERED IN EACH RUN EXPRESSED AS A PERCENTAGE OF THE TOTAL LENGTH OF THE CORE RUN.

ROCK QUALITY DESIGNATION (RQD):

A MODIFIED CORE RECOVERY WHICH IS DEFINED BY THE PERCENTAGE OF SOUND CORE RECOVERED IN LENGTHS OF GREATER THAN 4 INCHES (10 CENTIMETERS).

NOTES:

1. COORDINATES AND ELEVATIONS WERE PROVIDED BY MINERALS EXPLORATION COMPANY.
2. THE DISCUSSION IN THE TEXT OF THE REPORT IS NECESSARY FOR A PROPER UNDERSTANDING OF THE NATURE OF THE SUBSURFACE MATERIALS.

KEY TO LOG OF BORING

DAMES & MOORE

PLATE A-1

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON MINE PROPERTY

FEATURE: PIT SLOPE STABILITY

BORING NO. AH-427 C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078 FT PAGE 1 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT (1 2 4 8)	CONDITION OF CORE	WATER LEVEL
CONGLOMERATE			WEATHERED SANDSTONE CONGLOMERATE		0							
					10			HOLE NOT CORED TO 11 FT				
			LIGHT BROWN TO BROWN FINE TO COARSE SAND MATRIX WITH ANGULAR PEBBLE TO COBBLE-SIZE FRAGMENTS AND CALCAREOUS CEMENT				93		0			
							100		51			
					20							
							100		53			
					30		100		55			
							100		34			
			1 FT SANDSTONE LENS		40							
							100		82			
					50		100		67			
							100		66			
					60							
							99		59			
			VERY WEAKLY CEMENTED, SANDY PEBBLE CONGLOMERATE									
					70		100		56			
							100		57			
					80							

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3A

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427 C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 2 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT	CONDITION OF CORE	WATER LEVEL
CONGLOMERATE			WEAKLY CEMENTED SANDSTONE CONGLOMERATE	80		98		27			
				90		100		53			
						100		60			
				100							
			14 FT STRONG CLACITE CEMENTATION			100		61			
				110		100		91			
						98		52			
			1 FT STRONG CALCITE CEMENTATION	120							
			3 FT CALCITE CEMENTATION			100		39			
				130		100		58			
			13 FT STRONG CALCITE CEMENTATION								
				140		100		65			
						96		70			
BASALT			DARK GRAY WITH SMALL CALCITE-FILLED VESICLES	150		100	STEEPLY-DIPPING FRACTURES HEALED WITH CALCITE IN BASALT	82			
			FINE TO VERY COARSE, LIGHT BROWN CALCITE -CEMENTED SAND MATRIX, SMALL ANGULAR PEBBLES								
CONGLOMERATE				160		100		89			

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3B

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427 C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 3 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT	CONDITION OF CORE	WATER LEVEL
CONGLOMERATE				160							
						97		81			
				170							
						100		84			
						69		25			
				180							
						100		81			
			2 FT STRONG CALCITE CEMENTATION								
				190							
						100		80			
			1 FT STRONG CALCITE CEMENTATION								
			1 FT STRONG CALCITE CEMENTATION								
				200							
						99		62			
			2 FT STRONG CALCITE CEMENTATION								
				210							
						100		53			
			10 FT STRONG CALCITE CEMENTATION								
				220							
						100		80			
				230							
						100		56			
				240							

FR, SW, MW, HW, XW — VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3C

OWNER: MINERALS EXPLORATION

BORING NO. AM-427 C

PROJECT: ANDERSON PROSPECT

ANGLE FROM HORIZONTAL 90°

FEATURE: PIT SLOPE STABILITY

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078 PAGE 4 OF 10

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION	DEPTH	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT	CONDITION OF CORE	WATER LEVEL
CONGLOMERATE		240		99		61			
		250		98		69			
	9 FT STRONG CALCITE CEMENTATION	260		83		38			
SANDSTONE	FINE TO VERY COARSE, LIGHT BROWN SANDSTONE WITH A FEW LARGE PEBBLES/COBBLES, GENERALLY LITTLE FINE MATRIX MATERIAL OR CEMENT			98		69			
		270							
	3 FT CALCITE CEMENTATION			97		81			
		280							
	1 FT STRONG CALCITE CEMENTATION			96		70			
		290							
	10 FT THIN INTERLAYERED CALCITE CEMENTED ZONES			90		80			
		300							
				99		30			
		310							
				100		49			
		320							

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3D

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 5 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT	CONDITION OF CORE	WATER LEVEL
SANDSTONE			2 FT CALCITE CEMENTATION	320								
			2 FT WEAK CALCITE CEMENTATION				93		46			
			4 FT SILICA AND CALCITE CEMENTATION	330								
			2 FT WEAK CALCITE CEMENTATION				100		45			
			1 FT CALCITE CEMENTATION									
			1 FT CALCITE CEMENTATION	340			90		26			
				350			90		17			
				360			100		65			
			2 FT CALCITE CEMENTATION									
			2 FT CALCITE CEMENTATION, SOME SILICIFICATION									
			4 FT CALCITE CEMENTATION, SLIGHT SILICIFICATION	370			99		76			
			5 FT CALCITE CEMENTATION	380			100		54			
			3 FT CALCITE CEMENTATION	390			97		75			
			4 FT CALCITE CEMENTATION	400								

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3E

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 6 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT	CONDITION OF CORE	WATER LEVEL
SANDSTONE				400								
SILTSTONE			LIGHT BROWN TO GREEN, SANDY SILTSTONE GENERALLY WITH LITTLE CEMENTATION				97		54			
			1 FT CALCITE CEMENTATION	410			100		76			
				420			97		67			
			1 FT CALCITE CEMENTATION	430			95		73			
			1 FT CALCITE CEMENTATION									
CLAYSTONE			LIGHT GREEN CLAYSTONE TOP OF LACUSTRINE SEDIMENTS NO CORE	440			0	BREAKS ARE GENERALLY BEDDING PLANE FRACTURES WITH SOME BREAKAGE ALONG PERPENDICULAR JOINTING	0			
SILTSTONE			LIGHT GREEN SILTSTONE WITH VERY FINE SAND 1 FT CALCITE CEMENTATION				100		44			
CLAYSTONE			LIGHT GREEN SILTY CLAYSTONE 19 FT CALCITE CEMENTATION	450			100		91			
				460			100		76			
							63		58			
SILTSTONE			LIGHT GREEN CLAYEY SILTSTONE	470			100		83			
				480								

FR, SW, MW, HW, XW — VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3F

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427 C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 7 OF 10

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL	ELEVATION	LIFT & CORE RECOVERY (%)	RQD
SILTSTONE	2 FT LIGHT GREEN SILTY CLAYSTONE	480	100	67
	1 FT CHERT			
	2 FT CHERT	490	93	55
	1 FT CALCITE CEMENTATION			
	LIGHT GREEN SILTSTONE WITH SOME CLAYEY ZONES		94	64
		500	100	90
	1 FT CALCITE CEMENTATION			
	4 FT CALCITE CEMENTATION			
		510	100	81
		520	100	91
		530	100	89
	1 FT CALCAREOUS CLAYSTONE			
	10 FT CALCITE CEMENTATION	540		
	CARBONACEOUS LIGHT GREEN TO LIGHT GRAY SILTSTONE, CALCAREOUS, SLIGHTLY SILICIFIED, INCLUDES 1 FT LIGNITIC ZONE AT 550.5 FT		100	97
CARBONACEOUS SILTSTONE		550		
SILTSTONE	LIGHT GREEN CALCAREOUS SILTSTONE		100	79
	1 FT CHERT			
		560		

WEATHERING (SEE BELOW): FR, SW, MW, HW, XW

STRENGTH (SEE BELOW): VW, W, MS, S, VS

DESCRIPTION OF ROCK DEFECTS

FRACTURES PER FOOT

CONDITION OF CORE

WATER LEVEL

LOG OF BORING

DAMES & MOORE

PLATE A-3G

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 8 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT (2 4 8)	CONDITION OF CORE	WATER LEVEL
SILTSTONE			LIGHT GREEN TO LIGHT GRAY SILTSTONE WITH CALCAREOUS CEMENTATION, SLIGHTLY SILICIFIED	560			100		69			
CARBONACEOUS SILTSTONE			INCLUDES 6-INCH LIGNITIC ZONE AT 569 FT	570			93		80			
SILTSTONE			VERY SILICIFIED, LIGHT GREEN SILTSTONE 1 FT CARBONACEOUS ZONE LIGHT TO DARK GREEN CLAYEY SILTSTONE	580			100		63			
				590			100		51			
CARBONACEOUS SILTSTONE							98		65			
SILTSTONE			DARK GREEN CLAYEY SILTSTONE 1 FT CALCITE CEMENTATION AT 598 FT LIGHT GREEN SILTSTONE WITH SOME CLAY LIGHT GREEN VERY FINE TO MEDIUM-GRAINED SANDY SILTSTONE.	600			100		83			
SANDSTONE			LIGHT BROWN TO LIGHT GREEN FINE TO MEDIUM-GRAINED SILTY SANDSTONE	620			100		75			
SILTSTONE			LIGHT GREEN VERY FINE-GRAINED SANDY SILTSTONE									
SANDSTONE			LIGHT GREEN TO BROWN, SILTY SANDSTONE	630			75		57			
SILTSTONE			LIGHT GREEN FINE TO MEDIUM, SANDY SILTSTONE				100		62			
SANDSTONE			LIGHT GREEN, SILTY	640								

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

PLATE A-3H

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

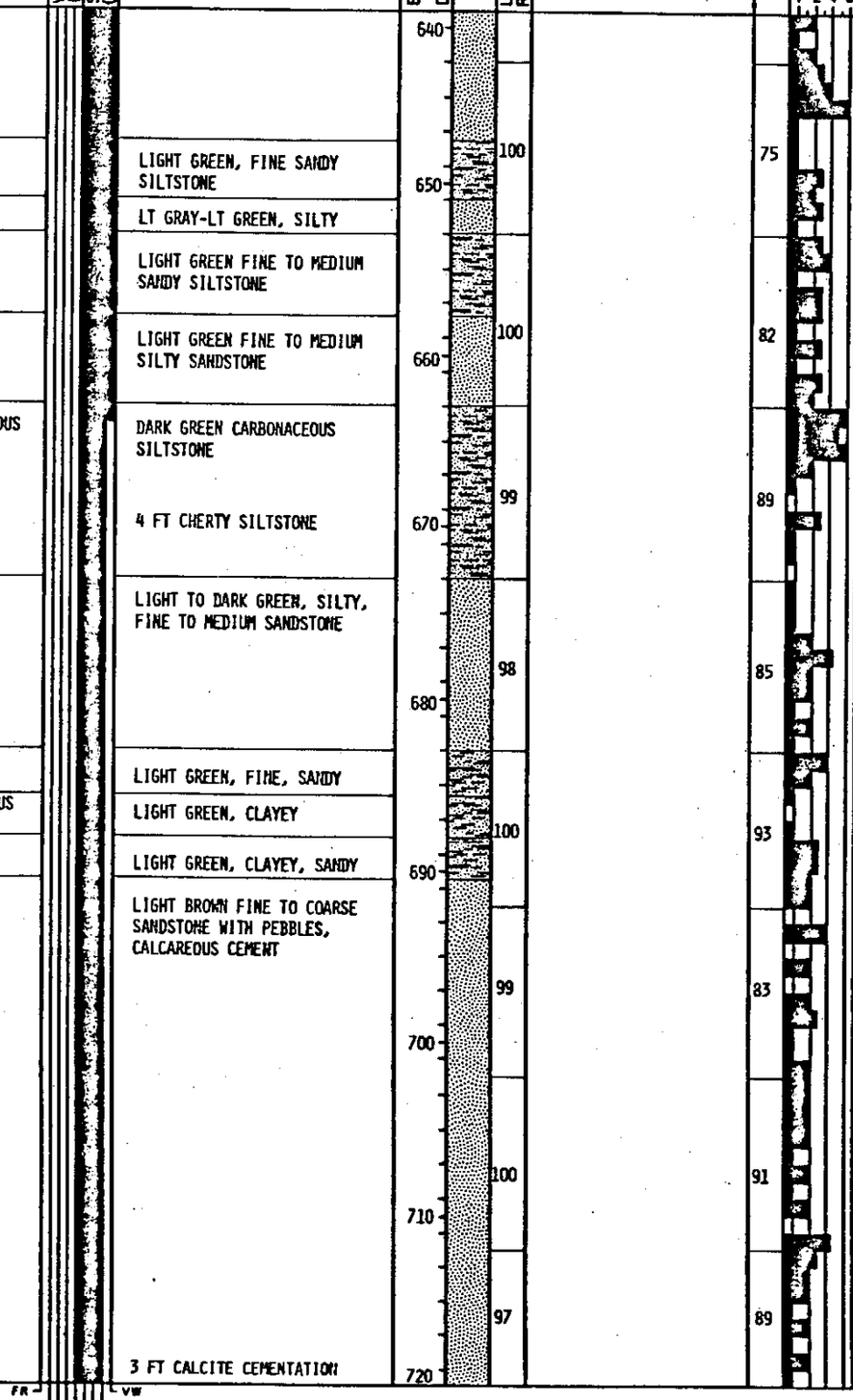
BORING NO. AM-427C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 9 OF 10

ROCK TYPE	DESCRIPTION OF ROCK MATERIAL
SANDSTONE	
SILTSTONE	LIGHT GREEN, FINE SANDY SILTSTONE
SANDSTONE	LT GRAY-LT GREEN, SILTY
SILTSTONE	LIGHT GREEN FINE TO MEDIUM SANDY SILTSTONE
SANDSTONE	LIGHT GREEN FINE TO MEDIUM SILTY SANDSTONE
CARBONACEOUS SILTSTONE	DARK GREEN CARBONACEOUS SILTSTONE 4 FT CHERTY SILTSTONE
SANDSTONE	LIGHT TO DARK GREEN, SILTY, FINE TO MEDIUM SANDSTONE
SILTSTONE	LIGHT GREEN, FINE, SANDY
CARBONACEOUS SILTSTONE	LIGHT GREEN, CLAYEY
SILTSTONE	LIGHT GREEN, CLAYEY, SANDY
SANDSTONE	LIGHT BROWN FINE TO COARSE SANDSTONE WITH PEBBLES, CALCAREOUS CEMENT 3 FT CALCITE CEMENTATION



LOG OF BORING

DAMES & MOORE

PLATE A-3I

OWNER: MINERALS EXPLORATION

PROJECT: ANDERSON PROSPECT

FEATURE: PIT SLOPE STABILITY

BORING NO. AM-427C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 1,201,595.9 E 643,387.1 ELEV. 2078

PAGE 10 OF 10

ROCK TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF ROCK MATERIAL	ELEVATION DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	DESCRIPTION OF ROCK DEFECTS	RQD	FRACTURES PER FOOT (1 2 4 6)	CONDITION OF CORE	WATER LEVEL
SANDSTONE				720							
						100		80			
				730							
CONGLOMERATE			LIGHT BROWN SANDY, PEBBLE-COBBLE CONGLOMERATE			100		71			
				740							
						100		51			
				750							
						100		67			
				760							
						100		76			
				770							
						92		82			
				780							
						100		85			
			HOLE COMPLETED 2/18/77	790							

FR, SW, MW, HW, XW — VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

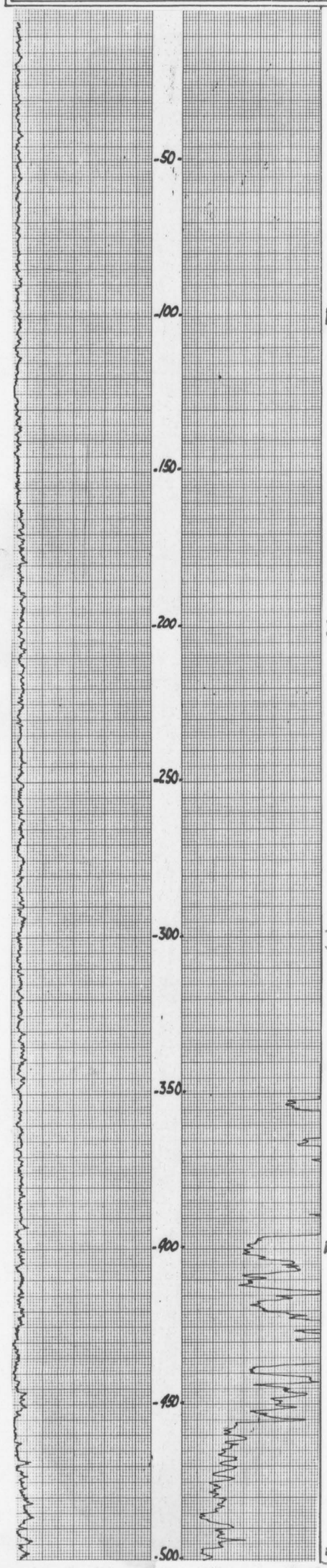
PLATE A-3J

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 428

ELEVATION 2072 NORTH 1,201,335.4 EAST 643,518.9 LOGGED BY CZH DATE 1-26-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 740 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG



DEPTH: 20, 40, 60, 80, 100, 20, 40, 60, 80, 200, 20, 40, 60, 80, 300, 20, 40, 60, 80, 400, 20, 40, 60, 80, 500

Cgl, LT Tan to Tan, Volcanic Frags

Basalt, Dk Gry

SS, Cgl Lt Tan

Cgl, V. Crs Granitic + Meta Seds

SS, Cgl, Slty, Lt Tan to Brn

Sltst, Brn, Sndy to V. Sndy

Intbdd Calc. Wht Tuff + Grn Silicified Bentonitic Sltst, Calc

Sltst, Grn, Silicified, Bentonitic, Calc

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM428

ELEVATION 2072 NORTH 1,201,335.4 EAST 643,518.9 LOGGED BY CZH DATE 1-26-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 740 P.D. ____

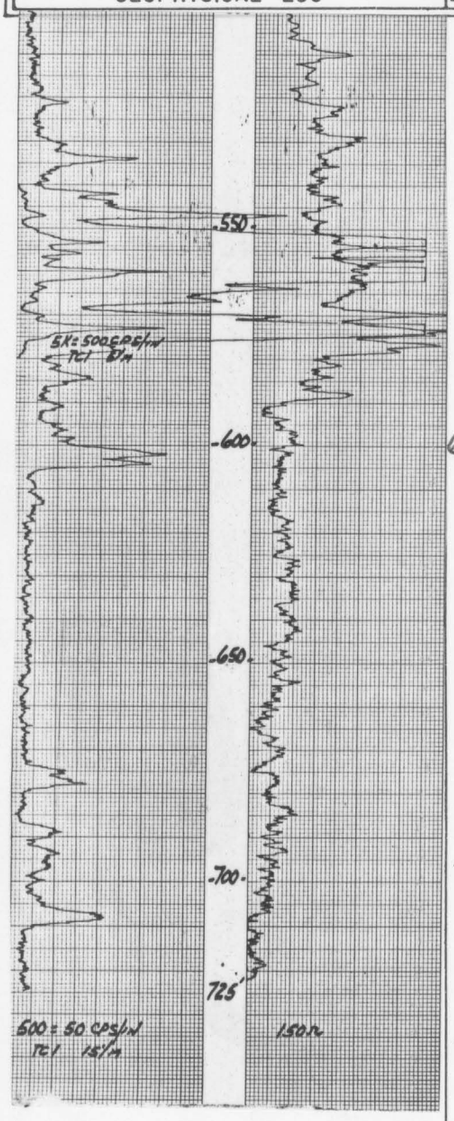
GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						
						Siltst, Grn, Silicified, Bentonitic, Calcareous
	20					
	40					
	60					Carbonaceous siltst + Calcareous Tuff, GrnGry to Gry, Calc
	80					Siltst, Dk Grn, Sub Carb, [redacted] Calc
	600					Carbonaceous Siltst, Dk Grn to Dk Gry, Calc
	20					Siltst, Grn, Bentonitic, Calc
	40					
	60					Siltst, Tan Grn, Samples Poor, Trace Carb? Non-Calc
	80					SS, Tan Grn, Med, Sorting Poor, Silty, Sub Calc
	700					Carbonaceous to Sub Carb Siltst Grn to Dk Grn to Gry, Calc
	20					Siltst, Tan Brn, w/ Volcanic Frags Sub-Calc to Calc
	740					
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					

Figure labels: -550- ; EK=500CPS/IN TCI 8M ; -600- ; -650- ; -700- ; 725 ; 500 = 50 CPS/IN TCI 1SI/M ; 150M

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE		HOLE NO.	AM 428
COUNTY YAVAPAI	STATE ARIZONA	GAMMA SCALE	500 = 50 CPS/IN
GP. 1,201,335.4N-643,518.9E	ELEV. 2072	PROBE TYPE	SCINT.
SEC.	TWP.	K-FACTOR	5.70 X 10-5
	RGE.	DEAD TIME	7.18 μ
DATE	1-26-77	TIME CONSTANT	1
DEPTH DRILLED	740	PROBE DIA.	1 5/8
DEPTH LOGGED	725	CALIPER	
FOOTAGE LOGGED	765	DIRECTIONAL SURVEY	
HOLE DIAMETER	5 5/8	TEMPERATURE	
WATER FACTOR	1.22	OPERATOR	KETSERLING
RESISTIVITY	150 OHMS/INCH	DRILLER	RUSS
SELF POTENTIAL	M.V./IN.	CONTRACTOR	REID & S
		LAST A.E.C. HT RUN	
		FLUID LEVEL	

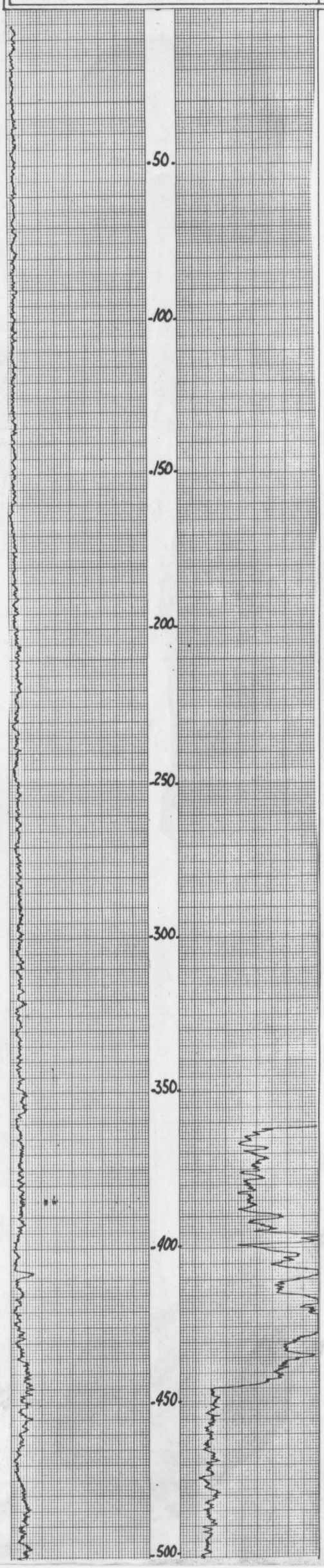
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	580		
TOP	540		
TOTAL FEET	40		
SCALE RUN	5K = 500CPS/IN		

REMARKS:

PROJECT Anderson Mine HOLE SIZE _____ ☐ AIR ☑ WATER HOLE NO. AM 429

ELEVATION 2058 NORTH 1,201,464.5 EAST 642,984.6 LOGGED BY CZH DATE 2-1-77

SECTION _____ TOWNSHIP _____ RANGE _____ T.D. 725 P.D. _____



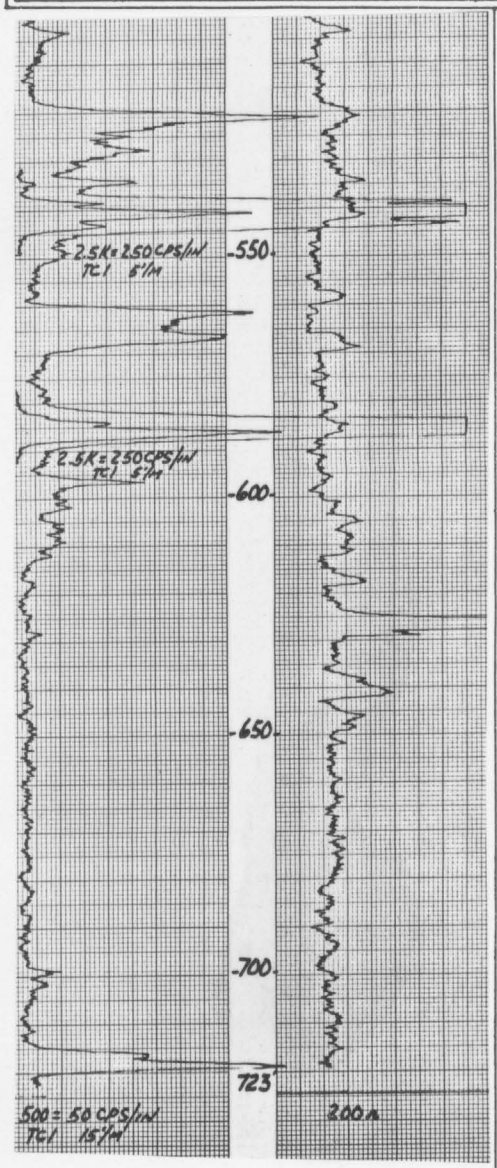
DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
					Cgl V. Crs, Boulders of Basalt, Gry
20					Cgl, LT Tan, V. Crs Volcanic + Granitic Frags
40					
60					
80					Cgl, Sndy, Slty to V. Slty
00					
20					
40					
60					Basalt, Blk to DK Gry
80					SS, w/V. crs Material Granitic
00					
20					
40					
60					SS, V. Slty GrnTan to Tan
80					
00					
20					
40					
60					
80					Sltst, Grn, Bentonitic
00					
20					Sltst + Calc Tuff (wht), Grn, Silicified, Calc
40					Sltst, Grn, Bentonitic, Calc
60					
80					Silicified Sltst, Grn, W/Brn + Red Brn Chert, Calc,
00					

PROJECT Anderson Mine **HOLE SIZE** _____ ☐ AIR ☑ WATER **HOLE NO.** AM 429

ELEVATION 2058 **NORTH** 1,201,464.5 **EAST** 642,984.6 **LOGGED BY** CZH **DATE** 2-1-77

SECTION _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 725 **P.D.** _____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG



Depth scale: 20, 40, 60, 80, 600, 20, 40, 60, 80, 700, 20, 40, 60, 80, 00, 20, 40, 60, 80, 00, 20, 40, 60, 80, 00

Lithology log:

- Silicified Sltst, Grn w/ Brn + Red Brn Chert Calc,
- Grn + Gry Grn Sub Chert
- Mdst, Bentonitic, Yel Grn to Grn, Calc
- Carbonaceous Sltst, Dk Gry, Calc, Silicified
- Lignite + Lignitic Sltst, Blk, Silicified, Calc
- Carbonaceous Sltst Grn Gry to Gry
- Yel Brn Chert Banding
- Sltst/Mdst, Silicified, Non Calc, Grn, Bentonitic
- SS, Med to Crs, Grn, Slty Sorting Poor, Trace Hem Stain?
- Sltst, Grn to Dk Grn
- Lignitic Sltst, Dk Grn + Blk, Calc
- Andesitic Volcanic Frags, Red Brn to Gry Brn

MINERALS EXPLORATION CO.

CASPER, WYOMING — HOLE NO. AM 429

LOCATION ANDERSEN MINE		GAMMA SCALE	500=50 CPS/IN
COUNTY YAVAPAI	STATE ARIZONA	PROBE TYPE	SCINT.
GP. 1,201,464.5N-642,984.6E	ELEV. 2058	K-FACTOR	5.70x10-5
		DEAD TIME	7.14m
		TIME CONSTANT	1
SEC. TWP. RGE.		PROBE DIA.	1 5/8
DATE	2-1-77	CALIPER	
DEPTH DRILLED	725	DIRECTIONAL SURVEY	
DEPTH LOGGED	723	TEMPERATURE	
FOOTAGE LOGGED	761	OPERATOR	KETTERLING
HOLE DIAMETER	5 5/8	DRILLER	JIM
WATER FACTOR	1.22	CONTRACTOR	UNIVERSAL
RESISTIVITY	200 OHMS/INCH	LAST A.E.C. PIT RUN	
SELF POTENTIAL	M.V./IN.	FLUID LEVEL	362

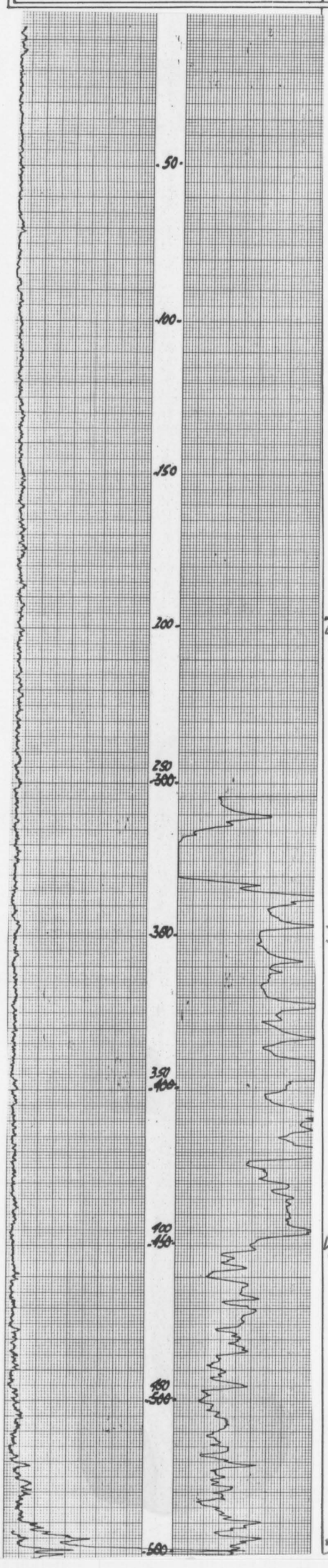
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN	REMARKS:
BOTTOM	592	549		
TOP	572	531		
TOTAL FEET	20	18		
SCALE RUN	2.5K=250CPS/IN	2.5K=250CPS/IN		

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM 430

ELEVATION 2032 NORTH 1,201,866.7 EAST 643,173.4 LOGGED BY CZH DATE 12-4-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 700 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG



Cgl, Volcanic + Granitic Frags, Lt Tan

Basalt, DK Gry

Silty

Silty, Sndy

Cgl, Lt Tan to Brn

U. Crs

Sndy

U. Crs

Sndy

U. Crs

Sndy, V. Crs

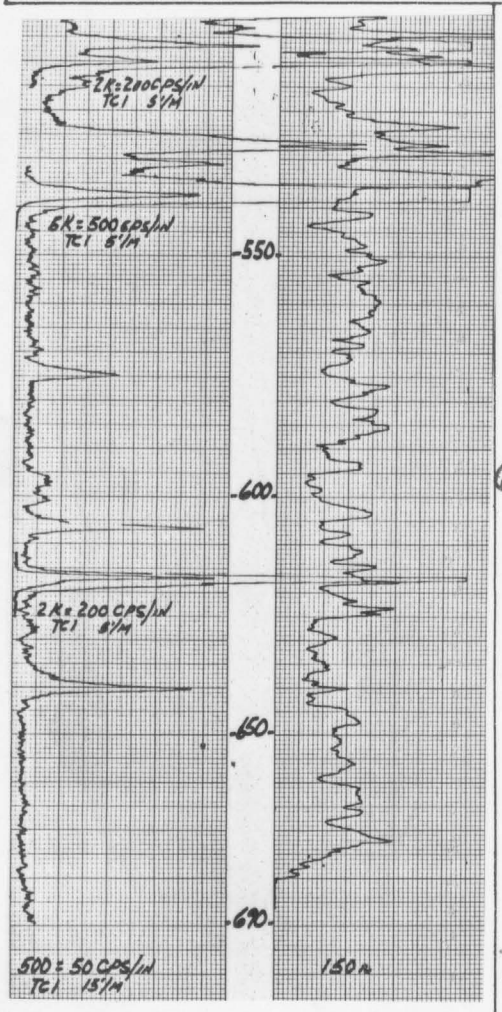
Intbdd, Grn Silicified Sltst + Calc Tuff W/ Red Brn Chert

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☑ WATER HOLE NO. AM430

ELEVATION 2032 NORTH 1,201,866.7 EAST 643,173.4 LOGGED BY CZH DATE 1-24-77

SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 700 P.D. ____

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



Intbdd, Grn Silicified Sltst + Calc Tuff, W/Red Brn Chert

Carbonaceous Sltst, DK Gry, Calc

Sltst, DK Grn, Sub-Carb,

Carbonaceous Sltst + Lignite, DK Gry to Blk, Calc Silicified

Sltst, Grn, Bentonitic

Sltst, V. Sndy, Grn, Bentonitic

Sltst, Grn to Tan Grn, Bentonitic Non Calc

Carbonaceous Sltst, DK Grn to Grn, W/Thin Intbds of Lignite

Sltst, Tan Grn

SS, Tan Grn, Fine to Crs Sorting Poor, Granitic (Pink)

Sltst, Tan, Sndy

Cant Read

Sltst, Tan, Sndy, Red Brn Volcanic Frags

~~Red Brn Volcanic Frags~~

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE			
COUNTY YAVAPAI	STATE ARIZONA		
GP. 1,201,866.7N-643,173.4E	ELEV. 2032		
SEC.	TWP.	RGE.	
DATE	1-24-77		
DEPTH DRILLED	700		
DEPTH LOGGED	690		
FOOTAGE LOGGED	738		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	150	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	625	545	515
TOP	612	532	493
TOTAL FEET	13	13	22
SCALE RUN	2K=200CPS/IN	5K=500CPS/IN	2K=200CPS/IN

HOLE NO.	AM 430
GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SCINT.
K-FACTOR	5.70×10^{-5}
DEAD TIME	7.14 m
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETTERLING
DRILLER	RUSS
CONTRACTOR	REID & S
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	