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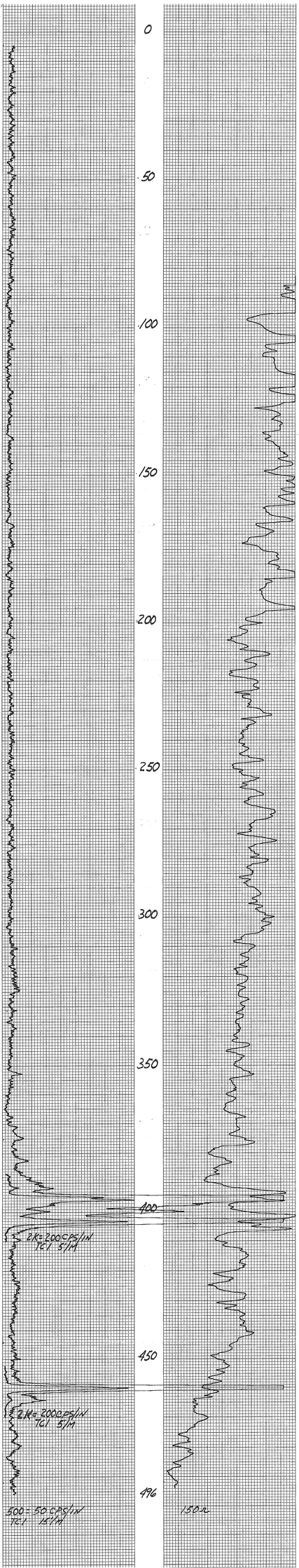
MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM-351

LOCATION	ANDERSEN MINE	GAMMA SCALE	500=50CPS/IN
COUNTY	YAVAPAI	STATE ARIZONA	PROBE TYPE	SCINT
GP.	1204500.40N 89639.85E	ELEV.	K-FACTOR	5.70x10-5
			DEAD TIME	7.14 μs
			TIME CONSTANT	1
SEC.	TWP.	RGE.	PROBE DIA.	1 5/8
DATE	DEC. 6,76		CALIPER	
DEPTH DRILLED	510		DIRECTIONAL SURVEY	
DEPTH LOGGED	496		TEMPERATURE	
FOOTAGE LOGGED	537		OPERATOR	KETTERLING
HOLE DIAMETER	5 5/8		DRILLER	JIM
WATER FACTOR	1.22		CONTRACTOR	UNIVERSAL
RESISTIVITY	150 OHMS/INCH		LAST A.E.C. PIT RUN	
SELF POTENTIAL	M.V./IN.		FLUID LEVEL	86
RERUNS	1ST. RUN / 2ND. RUN / 3RD. RUN		REMARKS:	
BOTTOM	470 / 410			
TOP	452 / 387			
TOTAL FEET	18 / 23			
SCALE RUN	2K=200CPS/IN / 2K=200CPS/IN			



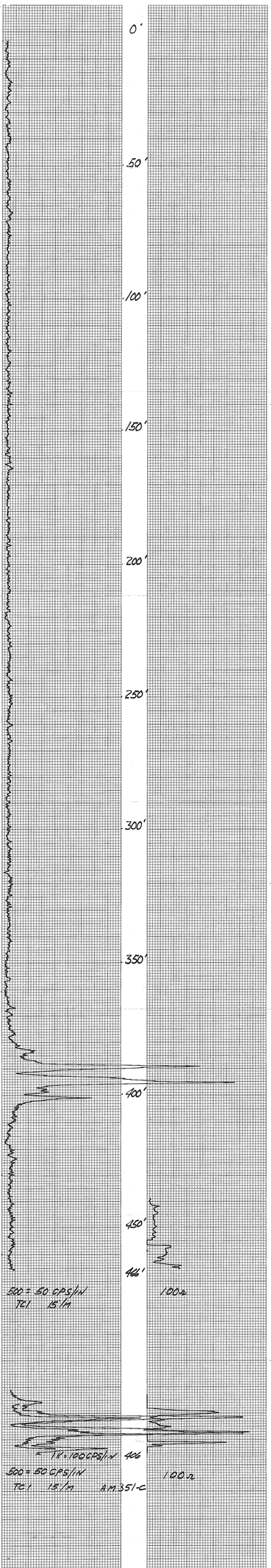
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE		
COUNTY	YAVAPAI	STATE	ARIZ.
GP.		ELEV.	
SEC.	TWP.	RGE.	
DATE	10-25-77		
DEPTH DRILLED	470'		
DEPTH LOGGED	466'		
FOOTAGE LOGGED			
HOLE DIAMETER	9"		
WATER FACTOR	1.10		
RESISTIVITY	100	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM			
TOP			
TOTAL FEET			
SCALE RUN			

HOLE NO. AM 351-C

GAMMA SCALE	500 = 50 CPS/IN
PROBE TYPE	SCINT.
K-FACTOR	5.76x10-5
DEAD TIME	7.52 μs
TIME CONSTANT	1
PROBE DIA.	1 3/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KETTERLING
DRILLER	
CONTRACTOR	BOYLES BROS.
LAST A.E.C. FIT RUN	
FLUID LEVEL	50'
REMARKS:	206 THROUGH 1½" CASING FROM 466' CASING FACTOR 1.042?



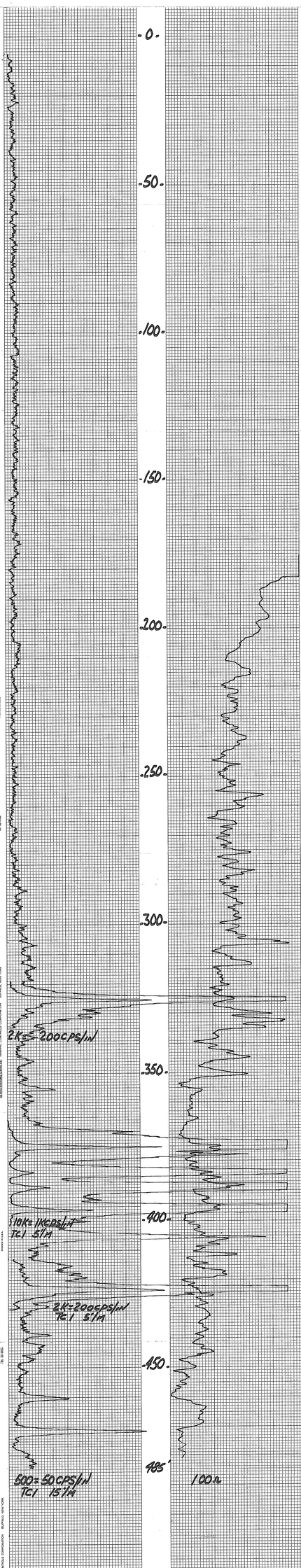
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE	HOLE NO.	AM 352
COUNTY	YAVAPAI	STATE ARIZONA	
GP.	1205.003.7N 8850.75E ~~1202,617.1N 648,179.7~~ E	ELEV.	1902
SEC.	TWP.	RGE.	
DATE	1-25-77		
DEPTH DRILLED	485		
DEPTH LOGGED	485		
FOOTAGE LOGGED	553		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISITIVITY	100	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	420	481	235
TOP	413	366	319
TOTAL FEET	17	35	16
SCALE RUN	2K=200CPS/IN 10K=1KCPS/IN 2K=200CPS/IN		

GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SOINT.
K-FACTOR	5.70X10-5
DEAD TIME	7.1 μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	NETTERLING
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	



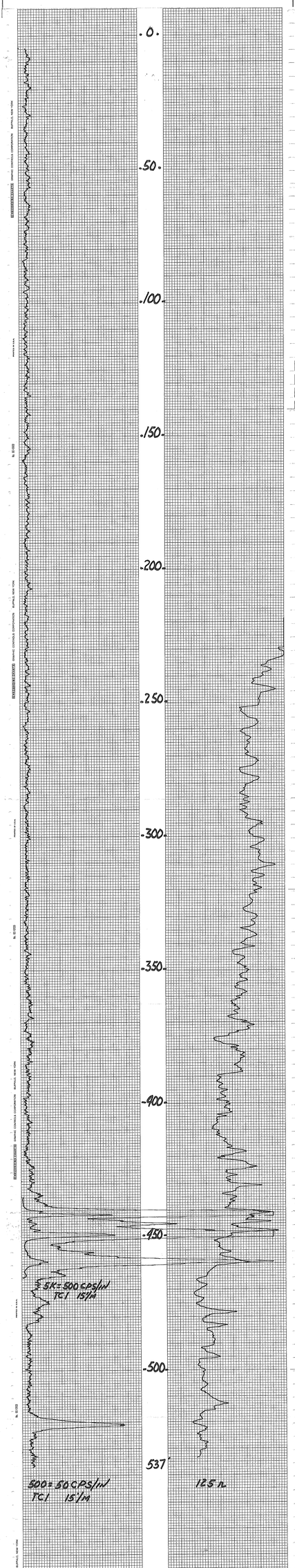
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE		
COUNTY	YAVAPAI	STATE	ARIZONA
GP.	1206776 GRID 897937 VGE ~~1208,594 GRID 841,807.3E~~	ELEV.	1947
SEC.		TWP.	RGE.
DATE	1-31-77		
DEPTH DRILLED	590		
DEPTH LOGGED	537		
FOOTAGE LOGGED			
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	125	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	
RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	965		
TOP	935		
TOTAL FEET	30		
SCALE RUN	GR=500CPS/IN		

HOLE NO. AM 353

GAMMA SCALE	500=50 CPS/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:	



MINERALS EXPLORATION CO.

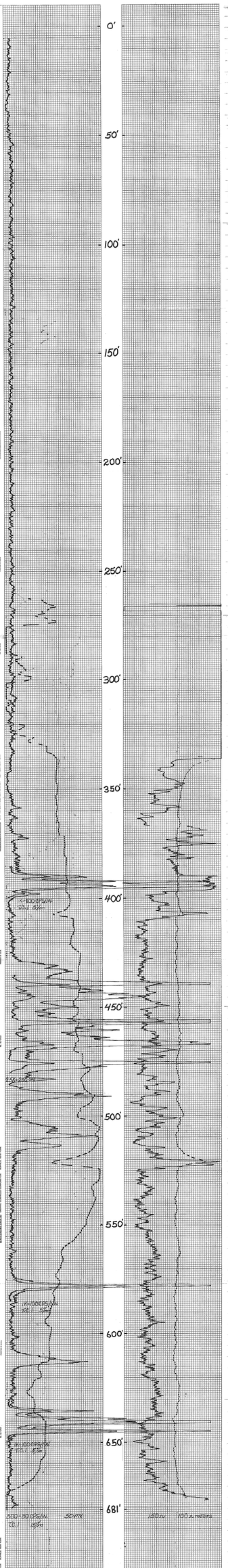
CASPER, WYOMING

HOLE NO. AM-3511

LOCATION	ANDERSON MINE	GAMMA SCALE	500=50CPS/IN.
COUNTY	Yavapai STATE ARIZ.	PROBE TYPE	SGINT
GP.	2214'N & 1441' E of SW Cor. Sec. 21, T14N-R3W, G&SRB&M ELEV. 1777	K-FACTOR	5.7×10^{-5}
		DEAD TIME	7.15 μ sec.
		TIME CONSTANT	1
SEC.	TWP. RGE.	PROBE DIA.	1 5/8"
DATE	2/20/62	CALIPER	
DEPTH DRILLED	820'	DIRECTIONAL SURVEY	
DEPTH LOGGED	681'	TEMPERATURE	
FOOTAGE LOGGED	771'	OPERATOR	Hudson
HOLE DIAMETER	5 3/8" to 780'	DRILLER	Jim
WATER FACTOR		CONTRACTOR	Roberts
RESISTIVITY	OHMS/INCH	LAST A.E.C. PIT RUN	
SELF POTENTIAL	M.V./IN.	FLUID LEVEL	

REMARKS:			
	400'		
	389'		
	15'		
	1K=100CPS/IN.		

RUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	680	525	480
TOP	630	575	435
TOTAL FEET	50	10	45
SCALE RUN	1K=100CPS/IN.	1K=100CPS/IN.	2.5K=250CPS/IN.



MINERALS EXPLORATION CO.

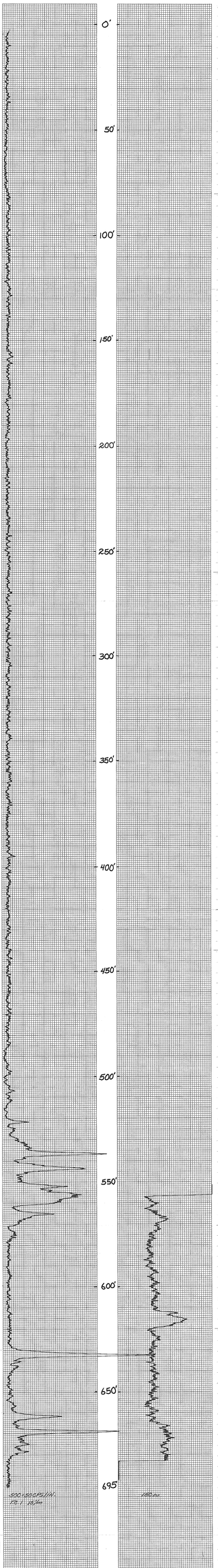
CASPER, WYOMING

HOLE NO. AM-355

LOCATION	ANDERSON MINE
COUNTY	YAVAPAI STATE ARIZ.
GP.	1000.3 FSL 1N. 641.8 W 7 E ELEV. 2035
	1324.2 FSL 3W.
SEC.	38 TWP. 01E RGE.
DATE	2-28-77
DEPTH DRILLED	705'
DEPTH LOGGED	695'
FOOTAGE LOGGED	695'
HOLE DIAMETER	6⅝ to 720
WATER FACTOR	
RESISTIVITY	150 OHMS/MMM
SELF POTENTIAL	M.V./IN.

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

GAMMA SCALE	400-1600 CPS/IN.
PROBE TYPE	SCINT
K-FACTOR	27.48
DEAD TIME	7.14 μ sec.
TIME CONSTANT	1
PROBE DIA.	1⅝"
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	Hudson
DRILLER	Kim
CONTRACTOR	Roberts
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	



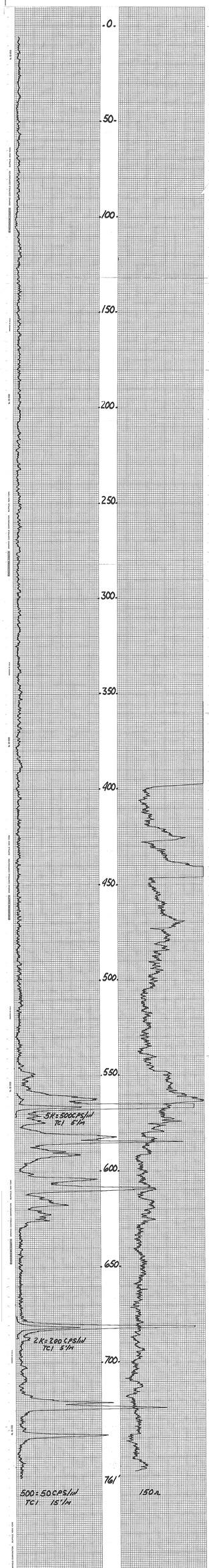
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE
COUNTY	YAVAPAI
STATE	ARIZONA
GP. (202,206,214-LIS,COELE	
ELEV.	2044
SEC.	29,30,31 SAE TWP.
RGE.	
DATE	2-8-77
DEPTH DRILLED	760
DEPTH LOGGED	761
FOOTAGE LOGGED	185
HOLE DIAMETER	7 5/8
WATER FACTOR	1.22
RESISTIVITY	OHMS/INCH
SELF POTENTIAL	M.V./IN.

RERUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	687	511	
TOP	675	509	
TOTAL FEET	12	12	
SCALE RUN	2K:2000CPS/IN	5K:500CPS/IN	

HOLE NO.	AM 356
GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SCINT
K-FACTOR	5.70×10^{-5}
DEAD TIME	7.9 μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	RETHERING
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS.	



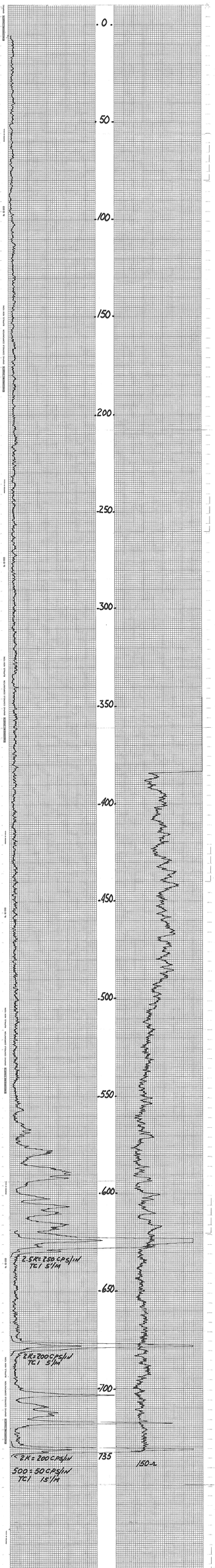
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSON MINE
COUNTY	YAVAPAI
STATE	ARIZONA
GP.	~~LONG 112°51'-54'-30"W LAT 34°33'-35'-30"~~
ELEV.	2040
SEC.	
TWP.	
RGE.	
DATE	2-9-77
DEPTH DRILLED	780
DEPTH LOGGED	785
FOOTAGE LOGGED	777
HOLE DIAMETER	5 5/8
WATER FACTOR	1.23
RESISTIVITY	150 OHMS/INCH
SELF POTENTIAL	M.V./IN.

REELING	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	135	683	132
TOP	727	673	6.14
TOTAL FEET	18	10	14
SCALE RUN	2K: 2000CPS/IN	2K: 2000CPS/IN	2K: 2000CPS/IN

HOLE NO.	AM 357
GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SCIN. T.
K-FACTOR	5.70 x10-5
DEAD TIME	7.12 u
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	METCALFE
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. FIT RUN	
FLUID LEVEL	
REMARKS	



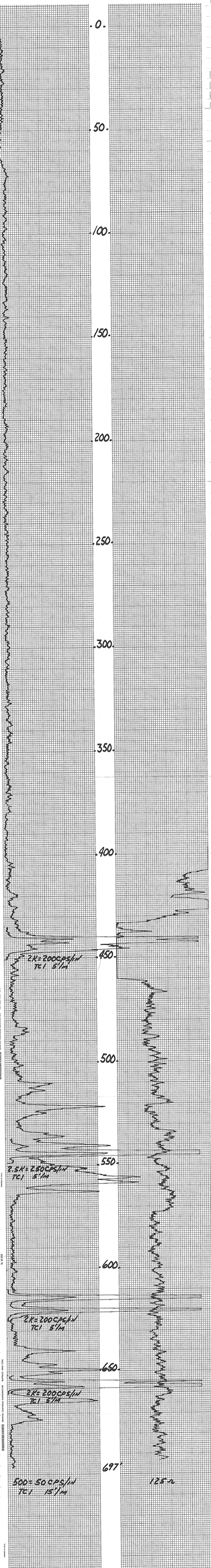
MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE	HOLE NO.	AM 35B
COUNTY	MOHAVE	STATE	ARIZONA
GP. ~~[illegible]~~	~~[illegible]~~	ELEV.	2037

SEC.	TWP.	RGE.	
DATE	2-7-77		
DEPTH DRILLED	700		
DEPTH LOGGED	697		
FOOTAGE LOGGED	157		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.26		
RESISTIVITY	125	OHMS/INCH	
SELF POTENTIAL		M.V./IN.	
REBUNS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	662	625	697
TOP	452	610	537
TOTAL FEET	18	15	12
SCALE RUN	2K=200CPS/IN	2K=200CPS/IN	2.5K=250CPS/IN

GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SCINT
K-FACTOR	5.70 X10-5
DEAD TIME	7.19μs
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	PETTERLINE
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. FFT. RUN	
FLUID LEVEL	
REMARKS:	650
	435
	2K=200CPS/IN

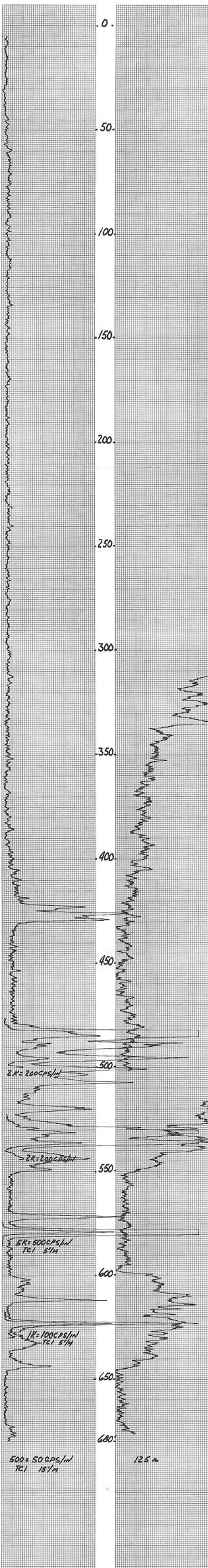


MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	ANDERSEN MINE		
COUNTY	YAVAPAI	STATE	ARIZONA
GP.	1202,557 N-E-W, 572281	ELEV.	2018
SEC.	TWP.	RGE.	
DATE	2-8-77		
DEPTH DRILLED	680		
DEPTH LOGGED	680		
FOOTAGE LOGGED	680		
HOLE DIAMETER	5 5/8		
WATER FACTOR	1.22		
RESISTIVITY	125	OHMS/INCH M.V./IN.	
SELF POTENTIAL			
REELINS	1ST. RUN	2ND. RUN	3RD. RUN
BOTTOM	630	585	599
TOP	618	574	522
TOTAL FEET	12	11	22
SCALE RUN	1K=100CPS/in 5K=500CPS/in 2K=200CPS/in 2K=200CPS/in		

HOLE NO.	A.M. 359
GAMMA SCALE	500=50CPS/in
PROBE TYPE	SCINT.
K-FACTOR	5.70×10-5
DEAD TIME	7.19μ
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	KEITERLINE
DRILLER	JUM
CONTRACTOR	UNIVERSAL
LAST A.E.C. FIT RUN	
FLUID LEVEL	
REMARKS.	500
	4%
	24



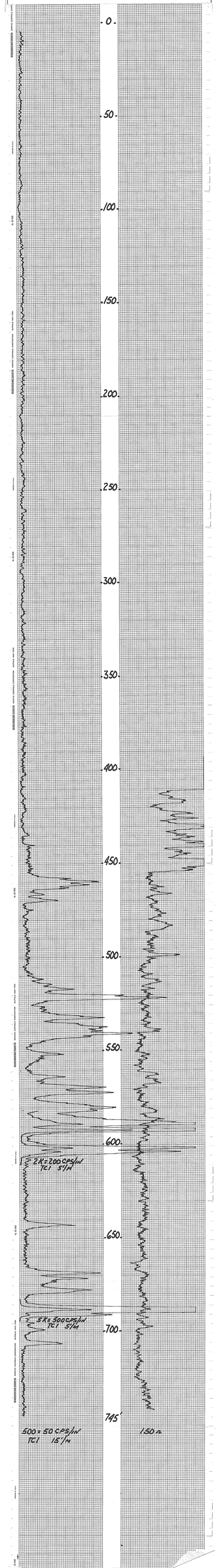
MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO.	AM 360
LOCATION	ANDERSEN MINE
COUNTY	YAVAPAI
STATE	ARIZONA
GP.	
ELEV.	2046
SEC.	
TWP.	
RGE.	
DATE	2-6-77
DEPTH DRILLED	750
DEPTH LOGGED	745
FOOTAGE LOGGED	785
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	635	610	
TOP	683	582	
TOTAL FEET	12	28	
SCALE RUN	SR: 500CPS/IN	RE: 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	KETCHUM & JONE
DRILLER	
CONTRACTOR	UNIVERSAL
LAST A.E.C. FIT RUN	
FLUID LEVEL	
REMARKS:	



PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☐ WATER HOLE NO. AM 351
ELEVATION 1879 NORTH 1202 133.7 EAST 643,318.4 LOGGED BY GM DATE 12-12-76
SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 520 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						cngl. tan → brn, sdt → cngl. calc. typical capping cngl.
						351 1/2
						sltstn, tan, sub-calc., mdstn, 30%
					*	cngl./mdstn, tan, cg → cngl
						sltstn, tan, sub-calc., 40%
					*	cngl., mdstn, tan → brn, non-calc.
						sltstn/mdstn tan → brn, calc., some cngl
						ls/mdstn, white and gray → grn., calc.
					*	cngl, brown → gry some mdstn, non-calc.
						mdstn, gray, carb., sub-calc.
					*	cngl./ss mg → cngl.

PROJECT Anderson Mine HOLE SIZE ____ ☐ AIR ☐ WATER HOLE NO. AM 351
ELEVATION 1879 NORTH 1202 133.7 EAST 643,318.4 LOGGED BY GM DATE 12-12-76
SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 520 P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						cngl./ss mg → cngl.
					*	cngl. mostly non-vol.
						351 2/2

MINERALS EXPLORATION CO.

CASING INFORMATION		HOLE NO.	AM-351
LOCATION	ANDERSON MINE	DRAWN SCALE	100 ft = 1 in
COUNTY	YAVAPAI	STATE ARIZONA	PROJ. TYPE	Geol.
			ELEVATION	1,879 ft
			DATE	12-12-76
			TIME COMPLETED	1 Hrs.
			PROJ. TOTAL	1.0
			DRILLER	
			DIRECTIONAL SURVEY	
			CASING	
			OPERATOR	METCALF
			DRILLER	GM
			CONTRACTOR	MINERAL
			PLUG & CO. RD. DIR.	
			PROJECT LEVEL	AL
			PROJECT NO.	

DIAMOND DRILL LOG

SCALE 1" = 10'
STARTED
STOPPED
NOTES BY R Scrymgeour

DEPTH 385-410, 455.5-470
BEARING
INCLINATION

HOLE No. AM 351 C
SHEET 1 OF 1
PROPERTY Anderson Hill
COUNTY
STATE AZ
COLLAR COORD. N.
E.
COLLAR ELEV.

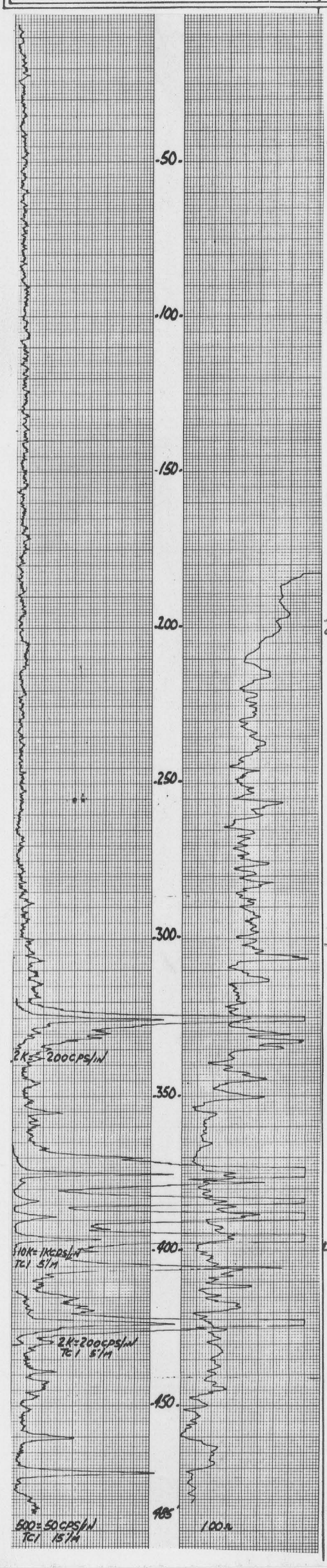
ASSAYS			% RECOV.	DEPTH	Graph	COL.	DETAIL	MINERALIZATION	ALTERATION	ROCK TYPE
							⊡ dip of beds, colors wet, 10% HCl			
				385			385-385.5 dark greenish gray clay, gray carbonaceous zones 385.5-386 lignite 386-387 dark green silty clay 387-390.2 gray brn limestone w/ carbon zones, pebbly (ls) beds of dark gray carbon bearing ls w/ ls pebbles dipping 35°.			clay dark greenish gray 5GY4/1 limestone light olive gray to gray 5Y4/1 - N6
				390			388.2 dark gray and white and siltstone laminations of ls & carbonaceous ls, same at 388.8 389.1. fracture with 1/4" vertical offset through 389-390 390.2-391.7 brn ls and silty ls 391.5-391.7 with trace carbon splotches.			Lignite w/ interlayered limestone 1mm - 2cm th brownish black 5YR2/1
				400			391.7-392.5 lignite with thinly laminated brn ls. dip ≈ 40°, possible shell frags in ls layers, biotite common in lignite. 397.5-399 light gray limestone, hard - ~~[illegible]~~ lightly silicified w/ dark material (?) filling fractures 399-401 gray green siltstone, local gastropods 1mm., calcareous 401-402.5 gry brn limestone with shell molds & casts 1-1.5 cm diameter (pelecypods?) 402.5-403 lignite and ~~carbonac~~ sub lignitic siltstone 403-407.5 green to gray siltstone, slightly siliceous. 407.5-410 green siltstone w/ yellow-orange clayey alteration in fractures some intervals slightly silicified.			siltstone-clay dark greenish gray 5GY4/1 black and dark gray siltstone with some clay greenish gray 5GY6/1
							410 End of interval			
				455.5			1½" carbonaceous siltstone 455.6-458.7 greenish gray siltstone, abundant biotite 458.7-459 interlayered red, brn, orange siltstone and clay, mn dendrites 459-467 gry green siltstone and ~~arkosic~~ sandstone (fine grained) sandstone stained orange 459.1. bedding 15-45°			carbonaceous siltstone brownish black 5YR2/1 siltstone greenish gray 5GY6/1 and fine grained arkosic sandstone olive gray 5Y4/1
				465						
				470			467-468.5 olive gray siltstone w/ carbonaceous layers -, thin stringers and wisps at: 467, 467.5, 468.1 - 1mm to 2cm thick 468.5-470 gry grn siltstone and arkosic ss, slight red-grn clayey alteration in fractures			siltstone and arkosic sandstone carbon in the silts.
							470 End of hole			

PROJECT Anderson Mine HOLE SIZE _____ ☐ AIR ☑ WATER HOLE NO. AM 352

ELEVATION 1902 NORTH 1,202,617.1 EAST 642,179.7 LOGGED BY CZH DATE 1-25-76

SECTION _____ TOWNSHIP _____ RANGE _____ T.D. 485 P.D. _____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG



Cgl, Lt Tan to Tan, Granitic

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSEN MINE			
COUNTY YAVAPAI	STATE ARIZONA		
GP. 1,202,617.1N-642,179.7E	ELEV. 1902		
SEC.	TWP.	RGE.	
DATE	1-25-77		
DEPTH DRILLED	485		
DEPTH LOGGED	485		
FOOTAGE LOGGED	553		
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	430	401	335
TOP	413	366	319
TOTAL FEET	17	35	16
SCALE RUN	2K=200CPS/IN	10K=1KCPS/IN	2K=200CPS/IN

HOLE NO.	AM 352
GAMMA SCALE	500=50CPS/IN
PROBE TYPE	SOINT.
K-FACTOR	5.70X10-5
DEAD TIME	7.19μ
TIME CONSTANT	1
PROBE DIA.	1 5/8
CALIPER	
DIRECTIONAL SURVEY	
TEMPERATURE	
OPERATOR	PETERALING
DRILLER	JIM
CONTRACTOR	UNIVERSAL
LAST A.E.C. PIT RUN	
FLUID LEVEL	
REMARKS:	

SS, Slty Cgl Brn

Sltst, Tan Grn,

Sltst, Grn, W/Intbdd thin wht Calc tuff Calc
Trace silicification

~~Sltst~~ Calcareous Tuff + Grn Sltst, Calc, Wht Grn,

Sltst, Grn, Bentonitic, Non-calc

Carbonaceous Sltst, Gry to DK Gry W/Intbdd Grn Sltst + Thin Lignites, Calc, Silicified, Red Brn Chert

Calcareous Tuff, wht, Silicified

Sltst, Grn, Bentonitic, Sub to Non-Calc

Carbonaceous Sltst + Lignite, DK Gry to Blk, calc,

Carbonaceous Sltst, DK Gry, Calc, W/thin Lignites + Brn Calc Tuff, Trace Silicification

Sltst, Tan Grn to Grn, Calc, Bentonitic, Lower Sndy

Carbonaceous Sltst + Lignite, DK Gry, Calc

Sltst, Red W/Andesitic Volcanic Frags

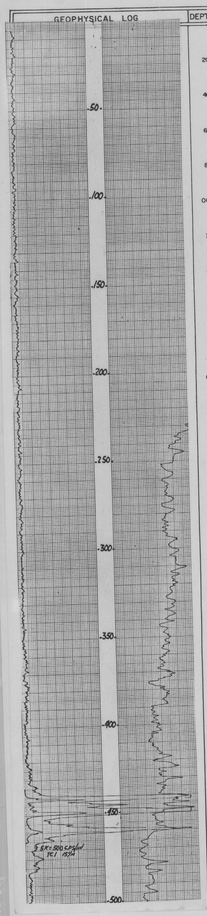
Page 1 of 2

PROJECT Anderson Mine | HOLE SIZE ____ ☐ AIR ☑ WATER | HOLE NO. AM 353

ELEVATION 1947 | NORTH 1,202,599.2 | EAST 641,607.3 | LOGGED BY CZH | DATE 1-31-77

SECTION ____ | TOWNSHIP ____ | RANGE ____ | T.D. 540 | P.D. ____

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



- SS Cgl, Lt Tan, Granitic
- Cgl, Sndy, Granitic, lt Tan to Ton
- Sltst, Grn Tan, V. Sndy
- Sltst, Tan, Sndy
- Cgl, Lt Tan, Granitic
- Sltst, Tan
- Sltst, Grn, W/ Thin Intbdd Wht Calc Tuff
- Silicified Sltst, Grn, Calc, Sltst, Grn, Bentonitic
- Carbonaceous Sltst, Dk Gry, Calc
- Sltst, Grn, Bentonitic

353
1/2

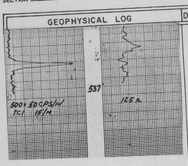
Page 2 of 2

PROJECT Anderson Mine | HOLE SIZE ____ ☐ AIR ☐ WATER | HOLE NO. AM 353

ELEVATION 1947 | NORTH 1,202,599.2 | EAST 641,607.3 | LOGGED BY CZH | DATE 1-31-77

SECTION ____ | TOWNSHIP ____ | RANGE ____ | T.D. 540 | P.D. ____

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



- Sltst, Grn, Bentonitic
- SS + Grn Sltst, Cvs, Tan Grn, Hem Stain? Sutington
- Carbonaceous Sltst, Dk Gry, Calc
- Sltst, Grn to Tan Grn Bentonitic
- Sltst, Red Orange + Brn Gry Andesitic Volcanic Frags

MINERALS EXPLORATION CO.

CAPPS, WYOMING		HOLE NO.	AM 353
LOCATION ANDERSON MINE		GAMMA TOOL	800-SR CPS/IN
COUNTY SHOSHONE	BASIN & RANGE	ELEVATION	1947 GL
SP. LOCATION SE-SE-NE-NE	SEC. 1 T 57	DATE	1-31-77
	RGE.	DRILL TIME	1 Hr.
DATE	1-31-77	TOTAL DEPTH	1.5
DRILL DRIVER	CRS	DRILLER	
DRILLER HOSTLER	CRS	CONTRACTOR	
DRILLER OPERATOR		DRILLER	RE-DRILLER
HOLE SIZE	5.5	OPERATOR	CZH/CRS/RJ
HOLE FACING	1.5	LAST CALC. TD. DEPTH	
DIRECTION	1.5	FLUID LEVEL	
DIP			
CASING	0		
CASING DEPTH	0		
TOTAL DEPTH	540		
HOLE DIP	90 DEGREES		

353
2/2

PROJECT Anderson Mine — HOLE SIZE — ☐ AIR ☑ WATER — Page 1 of 2 — HOLE NO. AM 355

ELEVATION 2035 — NORTH 1,202,185.1 — EAST 641,818.7 — LOGGED BY C.H. — DATE 2-14-77

SECTION — TOWNSHIP — RANGE — T.D. 720 — P.D.

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	20					Cgl, Lt Tan to Lt Gry, Volcanic Frags
	40					
	60					
	80					Basalt, Dk Gry
	100					Sltst, Red, Bake Zone
	120					
	140					
	160					
	180					SS, Cgl Lt Tan Silty to V. Silty, Crs Granitic Clastics
	200					
	220					
	240					
	260					
	280					
	300					
	320					
	340					
	360					
	380					
	400					
	420					
	440					
	460					Sltst, Sndy Lt Tan
	480					
	500					Sltst, Tan w/ Wht Calc Tuff Layers

AM 355 1 of 2

PROJECT Anderson Mine — HOLE SIZE — ☐ AIR ☑ WATER — Page 2 of 2 — HOLE NO. AM 355

ELEVATION 2035 — NORTH 1,202,185.1 — EAST 641,818.7 — LOGGED BY C.H. — DATE 2-14-77

SECTION — TOWNSHIP — RANGE — T.D. 720 — P.D.

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	20					Sltst, Tan, w/Wht Calc Tuff Layers
	40					Silicified sltst, Grn, Cal, w/wht Calc Tuff + Yel Brn Chert
	60					Lignite + Silicified sltst, Dk Grn to Blk, Calc
	80					Silicified Sltst, Tan Grn, w/Red Brn + Yel Brn Chert, Calc
	100					Carbonaceous Sltst + Lignite, Dk Gry to Blk, w/Brn Calc Tuff, Yel Brn Chert and Dk Grn Sltst, Calc, Silicified
	120					
	140					SS, Tan Grn, Med to Crs, Qtz, Aft, Sorting Poor
	160					
	180					SS? w/ Carbonaceous Sltst + Lignite + Grn Bentonitic Sltst,
	200					SS? Sltst, Tan Grn, Bentonitic
	220					
	240					Carbonaceous Sltst + Lignite w/ Intbdd Grn Bentonitic Sltst, Calc, Silicified, V. Sndy Gry Grn to Dk Gry & Red to Red Brn
	260					
	280					Andesitic Volcanics, Dk Gry to Red Brn
	300					
	320					
	340					
	360					
	380					
	400					
	420					
	440					
	460					
	480					
	500					

AM 355 2 of 2

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION	Anderson Mine	HOLE NO.	AM-355
COUNTY	Johnson	STATE	Wyo.
SEC. 1	TWP. 50 N	RGE. 80 W	
DATE	2-14-77		
DRILL MAKE			
DRILL MODEL			
DRILL SIZE			
DRILL MAKE			
DRILL MODEL			
DRILL SIZE			
DATE	2-14-77		
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DRILL SIZE			

PROJECT Anderson Mine HOLE SIZE ☐ AIR ☑ WATER HOLE NO. AM 355 Page 1 of 2

ELEVATION 2035 NORTH 1,202,185.1 EAST 641,818.7 LOGGED BY C. Hill DATE 2-14-77

SECTION TOWNSHIP RANGE T.D. 720 P.D.

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						Cgl, Lt Tan to Lt Gry, Volcanic Frags
						Basalt, DK Gry
						Sltst, Red, Brike Zone
						SS, Cgl Lt Tan Silty to V. Slty, Crs Granitic Clastics
						Sltst, Sndy Lt Tan
						Sltst, Tan w/ Wht Calc Tuff Layers

AM 355 1 of 2

PROJECT Anderson Mine HOLE SIZE ☐ AIR ☑ WATER HOLE NO. AM 355 Page 2 of 2

ELEVATION 2035 NORTH 1,202,185.1 EAST 641,818.7 LOGGED BY C. Hill DATE 2-14-77

SECTION TOWNSHIP RANGE T.D. 720 P.D.

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						Sltst, Tan, w/ Wht Calc Tuff Layers
						Silicified Sltst, Grn, Cal, w/ Wht Calc Tuff + Yel Brn Chert
						Lignite + Silicified Sltst, DK Grn to Blk, Calc
						Silicified Sltst, Tan Gry, w/ Red Brn + Yel Brn Chert, Calc
						Carbonaceous Sltst + Lignite, DK Gry to Blk, w/ Brn Calc Tuff, Yel Brn Chert and DK Grn Sltst, Calc, Silicified
						SS, Tan Grn, Med to Crs, Rtg Abnt, Sndy Poor
						SS? w/ Carbonaceous Sltst + Lignite + Grn Bentonitic Sltst
						SS? Sltst, Tan Gry, Bentonitic
						Carbonaceous Sltst + Lignite w/ Intbdd Grn Bentonitic Sltst, Calc, Silicified, V. Sndy Gry Grn to DK Gry & Red to Red Brn
						Andesitic Volcanics, DK Gry to Red Brn

AM 355 2 of 2

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION ANDERSON MINE

COUNTY UINTAH STATE UTAH

DH LOC. SW SW SW SEC. 27 T. 1 S. R. 1 W. BM. 2035

NO.		
DATE		
DEPTH START	0	
DEPTH FINISH	720	
CASING START	0	
CASING FINISH	720	
HOLE DIAMETER	7 7/8 in 720	
MAGNETIC DECLINATION	12.5	
DEV. SECTION		
DEPTH	DEV. DEG.	DIR. DEG.
TOTAL DEV.		
DRAW DIR.		

HOLE NO. AM-355	
CASING TYPE	UNCASED HOLE
CASING DIA.	
MAX. DIA.	7 7/8"
MAX. DEP.	720
MAX. CASING	
MAX. DIA.	7"
LOCATION	
DIRECTION TRUST	
INCLINATION	90°
DIRECTION	
INCLINATION	90°
DIRECTION	
DATE HOLE DRILLED	2-14-77
HOLE DEPTH	720
REMARKS	

PROJECT Anderson Mine HOLE SIZE ☐ AIR ☑ WATER HOLE NO. AM 356 Page 1 of 2

ELEVATION 2044 NORTH 1,202,205.2 EAST 642,005.1 LOGGED BY CZH DATE 2-8-77

SECTION TOWNSHIP RANGE T.D. 760 P.D.

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	50					Cgl, Lt Tan to Lt Gry, Includes Volcanic Boulders
	100					Basalt, Dk Gry — Bake Zone
	150					
	200					SS Cgl, Lt Tan to Lt Brn, Granitic, Silty
	250					
	300					
	350					
	400					
	450					
	500					

356 1 of 2

PROJECT Anderson Mine HOLE SIZE ☐ AIR ☑ WATER HOLE NO. AM 356 Page 2 of 2

ELEVATION 2044 NORTH 1,202,205.2 EAST 642,005.1 LOGGED BY CZH DATE 2-8-77

SECTION TOWNSHIP RANGE T.D. 760 P.D.

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	550					Sltst, Tan, Sndy
	600					Silicified Sltst Grn w/ Wht Calc Tuff or Marlst and Vel Brn Chert.
	650					Carbonaceous Sltst, Lignite + Brn Calc Tuff Gry to Blk, Calc, Silicified
	700					Sltst, Grn, Bentonitic, Sndy
	750					SS, Grn, Sub Ang, Med to Crs, Poor, Silty w/ Entrbld Grn Sltst
	760					Sltst/Mdst, Grn, Bentonitic
						SS, Fine to Med Sub Ang Poor W/ Lignitic Material
						Bentonitic Layers
						Carbonaceous Sltst, Dk Gry to Blk, Calc, Some Silicification
						Sltst/Mdst, Grn, Bentonitic, Non Calc
						Sltst, Red, w/ Red + Gry Brn Andesitic Volcanic Frags

MINERALS EXPLORATION CO.

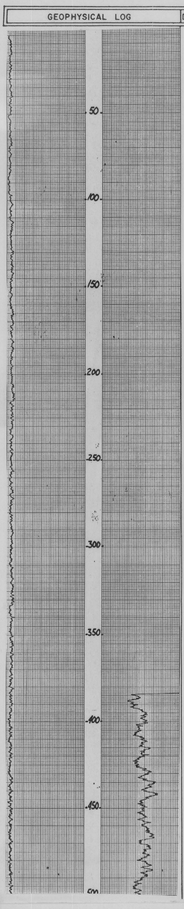
CAPITAL INTERESTS		HOLE NO.	AM 356
LOCATION ANDERSON MINE		DRILLING CO.	Dan Stephens
COUNTY YAVAPAI	STATE ARIZONA	DRILLER	Scott
		DIRECTION	270 Vert.
		HOLE SIZE	7 7/8
		HOLE TYPE	
		HOLE CONDITION	Good
		HOLE DEL.	1.58
		CASING SIZE	
		CASING DEPTH	
		INCLINATION	
		DRILLING	Air Hammer
		DRILLER	Mike
		HELPER	Gary Hayes
		HOLE FILL BY MIN.	
		FILLED LEVEL	
		REMARKS	

Page 1 of 2

PROJECT Anderson Mine | HOLE SIZE ____ | ☐ AIR ☑ WATER | HOLE NO. AM 357

ELEVATION 2040 | NORTH 1,201,986.2 | EAST 642,203.8 | LOGGED BY CZH | DATE 2-4-77

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

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						Cgl, Lt Tan, } V. Crs / Volcanic Frags Basalt, DK Gry — Bake Zone Red Sltst SS Cgl, Silty Top + Bottom Lt Tan to Tan Granitic, Calc Cement,

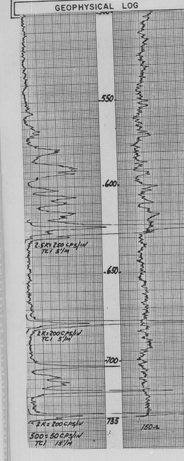
357
1 of 2

Page 2 of 2

PROJECT Anderson Mine | HOLE SIZE ____ | ☐ AIR ☑ WATER | HOLE NO. AM 357

ELEVATION 2040 | NORTH 1,201,986.2 | EAST 642,203.8 | LOGGED BY CZH | DATE 2-4-77

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

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
						Sltst, Tan, Sndy Sltst, Gry, Bentonitic, Sub Calc to Calc — Non Calc Some Silicification Silicified Sltst, Tan Grn, Non-Calc, Sndy w/ Lignitic Calc Layers Intbdd Sltst, Grn, Calc, Silicified w/ Calc Tuff, Wht to Tan Brn, Carbonaceous Lignite + Carbonaceous Sltst, Blk to Dk Gry Calc, Silicified, w/ Brn Calc Tuff Sltst, Silicified, Gry Grn, Carbonaceous Calcareous SS, Med, Sub Ang, Sorting, Mod to Poor, Trace Limit Hem Stng, Lignitic Material } Sltst Lt Grn Bentonitic Sltst Gry, Bentonitic, Very Sndy Sands Contain Volcanic Frags Sltst, Grn to Gry Grn, Lignitic Material Present, Samples V. Sndy Hard to Read, Sub Calc Sltst, Red w/ Hematite, Volcanic Frags

MINERALS EXPLORATION CO.

CASPER, WYOMING

LOCATION Anderson Mine

COUNTY Uinta | STATE Wyoming

SP. LOCATION 642,203.8E 1,201,986.2N | ELEV. 2040

DATE	2-4-77		
MFG. DRILLER	Pat		
MFG. LOGGER	Pat		
MFG. PROGRAMMER	Pat		
MFG. INTERPRETER	Pat		
LOGGER TYPE	1.5		
DIAMETER	1.25	CONNECTOR	
SP. REFERENCE		G.L.O. Brass Cap	
	DIA. MIN.	DIA. MAX.	DIA. AVG.
CASING	2.5	2.5	2.5
BIT	2.5	2.5	2.5
FLUID TYPE	Air		
FLUID DENSITY	1.0 (Pounds/Gallon)		

HOLE NO.	AM 357
CASING SIZE	2.5" (Schedule 40 PVC)
FROM TYPE	Pump
DIAMETER	1.25 (Inches)
MAX. TIME	7.14 m
MAX. DEPTH	740
MAX. DEV.	1.5
COLLAR	
DIRECTIONAL SURVEY	
DEVIATION	
DIRECTION	N 90.0 E N
LOGGED	2-4-77 (Pat)
LOG AGO. TO MIN.	
FIELD DATE	
REMARKS	

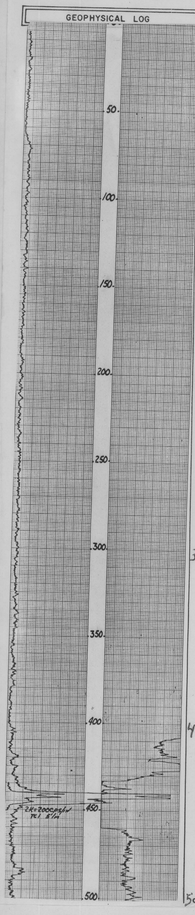
357
2 of 2

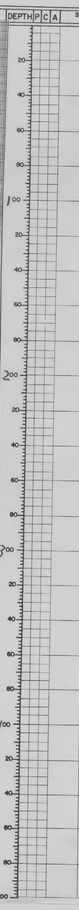
PROJECT Anderson Mine — HOLE SIZE ____ ☐ AIR ☑ WATER — Page 1 of 2 — HOLE NO. AM 358

ELEVATION 2037 — NORTH 1,202,196.0 — EAST 642,418.4 — LOGGED BY CZH — DATE 2-7-77

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

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





Cgl, Tan, Granitic + Volcanic Frags

Basalt, Dk Gry

Cgl, Red, Brake Zone

Cgl, Sndy (Crs), Slty Lt tan to Brn, Granitic

Slbst, Lt Tan to Brn, Sndy

Sltst, Grn, Trace Wht Marlst

Silicified Sltst, Tan Gen W/Yel Brn Chert, Calc

Sltst, Grn, Bentonitic

Carbonaceous sltst, Gry Silicified Calc

Sltst, Grn, Silicified, Calc, Bentonitic

Carbonaceous Sltst + Lignite, Gry to Blk, Calc Silicified

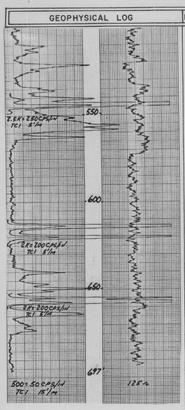
AM358 1/2

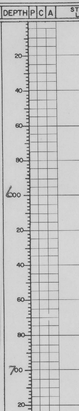
PROJECT Anderson Mine — HOLE SIZE ____ ☐ AIR ☑ WATER — Page 2 of 2 — HOLE NO. AM358

ELEVATION 2037 — NORTH 1,202,196.0 — EAST 642,418.4 — LOGGED BY CZH — DATE 2-7-77

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

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





Carbonaceous sltst + Lignite Gry to Blk, Calc, Silicified

Silicified Sltst, Grn, Sndy

Carbonaceous sltst + Lignite Gry to Blk Calc, Silicified w/Brn Calc Tuff

SS, Grn, Medium Crs, Sorting Poor, Slty Angl to Sub Rnd

Carbonaceous sltst, Gry, Lignitic Material, Calc Silicified

Sltst, Red and Andesitic Volcanic Frags

AM358 2/2

MINERALS EXPLORATION CO.

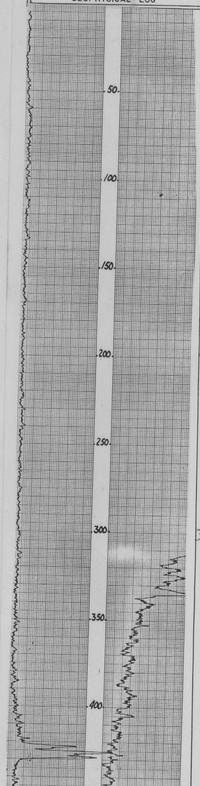
CASING, WYOMING				HOLE NO.	AM 358
LOCATION ANDERSON MINE				DRILL TYPE	CORE BARREL
COUNTY YAVAPAI	STATE ARIZONA			DRILL TYPE	CORE
GP. (SHL)/BG.AM-642,418/N-E				ELEVATION	2,036.8
				TOTAL DEPTH	1,284
	DIA.	DEPTH		TOTAL CONTACT	
DATE	2-7-77			DRILL NO.	1 CR
DATE DRILLED	2-7-77			CASING	
DATE CASED	687			INCLINATION DIRECT	
DATE COMPLETED	2-7-77			INCLINATION	
HOLE DIAMETER	2.5 CR			OPERATOR	ALTERNATE
WATER FACTOR	7.5			FOREMAN	LEON
MAGNETICS	7.5	MAGNETICS		CONTRACTOR	GENERAL
DEV. PERMISSION		DATE		PLUG DEPTH	NA
	DIR. BEAR	DIP. BEAR	DIR. BEAR	PLUG LEVEL	
BEARING	84.6	82.1	68.1	ELEVATION	
DIP	8.4	16.0	18.1	DATE	
TOTAL MAG	7.6	7.6	7.6		
MAG DIR	Reversed 10 seconds to second 10 below				

PROJECT Anderson Mine — HOLE SIZE ____ ☐ AIR ☑ WATER — Page 1 of 2 — HOLE NO. AM 359

ELEVATION 2018 — NORTH 1,202,193.7 — EAST 642,572.8 — LOGGED BY CZH — DATE 2-8-77

SECTION ____ — TOWNSHIP ____ — RANGE ____ — T.D. 680 — P.D. ____

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



Cgl, V. Crs, Lt Tan to Lt Gry, w/ large Volcanic Boulders

Basalt, Dk Gry

Cgl, Red, Baked Zone

SS Cgl, Lt Tan

Cgl, V. Crs, Granitic, Lt Tan

AM 359 1 of 2

SS Cgl, Med to Crs, Silty, Lt Tan to Lt Brn

Siltst, Tan, Sndy

Siltst, Grn + Wht Calc Tuff, Calc, Silicified Bentonitic

Carbonaceous siltst, Gry, Silicified Calc,

Silicified Siltst, Tan Grn, w/ Gry Grn + Grn Gry Sil Chert, and Yel Brn Chert, Calc, Thin Entded Bentonite

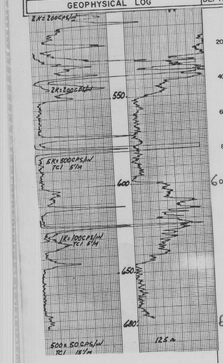
Carbonaceous siltst + Lignite DK Gry to Blk w/ Brn Calc Tuff

PROJECT Anderson Mine — HOLE SIZE ____ ☐ AIR ☑ WATER — Page 2 of 2 — HOLE NO. AM 359

ELEVATION 2018 — NORTH 1,202,193.7 — EAST 642,572.8 — LOGGED BY CZH — DATE 2-8-77

SECTION ____ — TOWNSHIP ____ — RANGE ____ — T.D. 680 — P.D. ____

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



Carbonaceous siltst + Lignite DK Gry to BLK w/ Brn Calc Tuff, Silicified

SS, Grn Med, Silty, Sub Ang, Poor

Siltst, Grn, Bentonitic, Lots of SS, Thin Intends of Lignitic Material

Carbonaceous siltst, DK Grn to Gry, Silicified, Calc,

Brn Calc Tuff + Carbonaceous siltst, Brn Gry

Carbonaceous Siltst DK Gry, w/ Thin Intends of Lignite

Siltst, Red w/ Andesitic Volcanic Frags

AM 359 2/2

MINERALS EXPLORATION CO.

CASPER, WYOMING				HOLE NO.	AM 359
LOCATION	ANDERSON MINE			DRILL RIG	DRILL RIGS
COUNTY	MOHAVE	STATE	ARIZONA	MEAS. TOP	SURF
				MEAS. TOP	2 WAY
				MEAS. TOP	1 WAY
TOP	1202.193.7N	642.572.8E	REF. 2018	TOP CONTAMINT	?
				MEAS. TOP	?
DATE				LOGGER	
DATE	2-8-77			DRILLING EQUIP.	
DATE				DRILLING	
DATE				DRILLER	FLEXRING
DATE				DRILLER	
DRILL DIAMETER	7 7/8			DRILL	WATERFLEX
DRILL DIAMETER	7 7/8			DRILL	WATERFLEX
DIAMETER	125			DRILL	
DIAMETER	125			DRILL	
DIAMETER	125			DRILL

Page 1 of 2

PROJECT Anderson Mine — HOLE SIZE ____ ☐ AIR ☑ WATER — HOLE NO. AM 360

ELEVATION 2046 — NORTH 1,202,104.3 — EAST 642,557.9 — LOGGED BY CZH — DATE 2-6-77

SECTION ____ — TOWNSHIP ____ — RANGE ____ — T.D. 760 — P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	20					
	40					Cgl, Lt Tan, Volcanic Frags Com
	60					
	80					
50	100					Basalt, DK Gry
100	20					
	40					SS Cgl, Lt Tan, Slty
	60					
	80					
150	200					
200	20					SS, Fine to Med, Lt Tan, Slty
	40					
	60					
250	80					
300	300					SS Cgl, Lt Tan to Lt Brn, Slty
	20					
	40					
350	60					Sltst, Lt Tan to Lt Brn, Sndy
	80					
400	400					Sltst, Tan Grn, W/Thin Intbdd Wht Marlst.
	20					
	40					Silicified Sltst + Wht Calc Tuff, W/Yel Brn + Red Brn Chert
450	60					Calc, Tan Grn to Grn
	80					Mdst, Grn, Bentonitic, Slty
	80					Carbonaceous Sltst + Lignite, DK Gry, Calc, Silicified
	80					
	80					Silicified Sltst, Tan Grn, W/Yel Brn Chert, Calc
500	500					

AM 360
1 of 2

Page 2 of 2

PROJECT Anderson Mine — HOLE SIZE ____ ☐ AIR ☑ WATER — HOLE NO. AM 360

ELEVATION 2046 — NORTH 1,202,104.3 — EAST 642,557.9 — LOGGED BY CZH — DATE 2-6-77

SECTION ____ — TOWNSHIP ____ — RANGE ____ — T.D. 760 — P.D. ____

GEOPHYSICAL LOG	DEPTH	P	C	A	STRIP LOG	LITHOLOGY LOG
	20					Silicified Sltst, Tan Grn, W/Yel Brn Chert, Calc
	40					
	60					
	80					
550	80					Carbonaceous Sltst, Lignite + Brn Calc Tuff, Sub Calc to Calc, Gry to Blk, Silicified
	80					
600	600					
2 Kc 100 CPS/W TCI 87%	20					Sltst, Tan Grn, W/Lignitic Material, Silicified, Sub Calc
	40					
	60					SS, Med, Ang to Sub Ang, Poor, Grn, Trace Iron Stain
650	80					Sltst, Tan Gry, Bentonitic
	80					Carbonaceous Sltst, Gry, W/Thin Intbdd's Lignite and Grn Sltst.
	80					SS, Med to Crs, Poor, Ang
2 Kc 100 CPS/W TCI 87%	700					Carbonaceous Sltst, Gry W/Lignitic Material Calc
	20					Sltst, Grn to Tan Grn
	40					
745	60					Sltst Red + Andesitic Volcanics
500 x 50 CPS/W TCI 18%	80					
	00					
	20					
	40					
	60					
	80					
	00					
	20					
	40					
	60					
	80					
	00					

MINERALS EXPLORATION CO.

CAPITAL WYOMING		HOLE NO.	AM 360
LOCATION ANDERSON MINE		CASING TYPE	500 x 50 CPS/W
COUNTY SUBLETTE	STATE WYOMING	CASING	5" Steel
SW ¼ SW ¼ SW ¼ SECTION	TWP. 28 N	HOLE TYP	7 7/8
		HOLE CONDITION	Good
		HOLE DIA.	7 7/8
		HOLE DEPTH	760
		DATE	2-6-77
		OPERATOR	Czechuta
		DRILLER	Lund
		RIG NUMBER	Independent
		DAY HOLE AT RIG	
		FLUID LEVEL	
		DRILLER	

DATE	2-6-77		
DATE STARTED	2/1		
DATE COMPLETED	2/1		
DATE LOG RUNNED	2/6		
DRILLER	Lund		
DRILLER NUMBER	1		
DRILLER NUMBER	1		
DRILLING			
DRILL POSITIONS	1		
	DD. MIN.	DEG. MIN.	DEG. MIN.
ELEVATION	2,046		
TOP	0.0	0.0	
TOP	0.0	0.0	
TOTAL FEET	760		
HOLE DIR.	Vertical		

AM 360
2/2