CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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Denver, Colo.

| | |
|---|---|
| Date | 3-9-78 |
| Company | Minerals Exploration |
| Hole No. | AM 821 |
| Area | Anderson Mine |
| County | Yavapai |
| State | Arizona |
| Total Depth | 276' |
| Casing Depth | 30' |
| Time Constant | 60 |
| Calibration Pulse Data | |
| Source Name | |
| Detector No. | 9058-23 |
| Probe No. | 7/8 |
| Nat. Scint. Xtal | 1.0" x 1.0" |
| Det. Hole Size | 5.5 x 10^-6 |
| Det. Hole Fluid | 1.135 |
| Det. Hole Factor | 1.00 |
| Det. Hole Depth | 10 |
| Det. Hole Fluid | 1 |
| Det. Hole Factor | 10 |

| | |
|---|---|
| Date | 3-9-78 |
| Company | Minerals Exploration |
| Hole No. | AM 821 |
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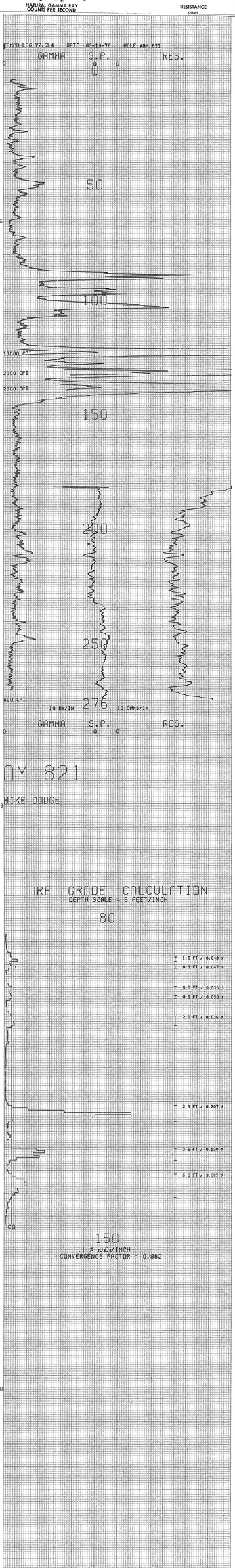
| Det. Hole Fluid | 1.135 |
| Det. Hole Factor | 1.00 |
| Det. Hole Depth | 10 |
| Det. Hole Fluid | 1 |
| Det. Hole Factor | 10 |

Gamma Ranges
Gamma Ray Calibration

| Scale | Gain Pos. No. | Sensitivity Range | Scale | Gain Pos. No. | Sensitivity Range | Scale | Gain Pos. No. | Sensitivity Range |
|---|---|---|---|---|---|---|---|---|
| Lo. | | Hi. Mr/Hr. | Lo. | | Hi. Mr/Hr. | Lo. | | Hi. Mr/Hr. |
| From | | | From | | | From | | |
| To | | | To | | | To | | |
| Total | | | Total | | | Total | | |

Operator: Hoxmud
Witnesses: M. Dodge
Truck: 7750
Witnessed By: Ag.
Date: 3-9-78
Time: 0:25 - 11:45 / 12:30
Logging Speed: 0.75 fm.
Recorded Speed: 1.0 fm.
Progressive Speed: fm.
Remarks: Trace used #3
Probe K-factor from E.R.D.A. Pits 3.10-78: 5.695 x 10^-6
Rig: Cobra (Freddie)

SELF POTENTIAL
NATURAL GAMMA RAY
COUNTS PER SECOND
DENSITY
RESISTANCE
OHMS

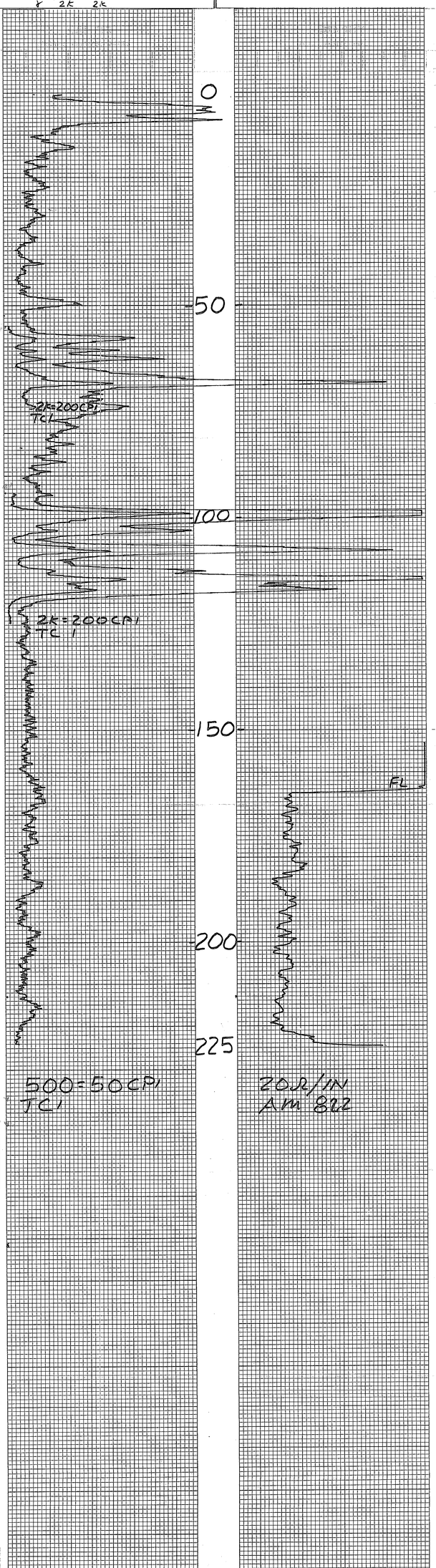


# MINERALS EXPLORATION CO.

CASPER, WYOMIN

| | | | |
|---|---|---|---|
| AREA ANDERSON MINE | | | |
| GRID POINT | ELEVATION | | HOLE NO. Am 822 |
| COUNTY YAVAPAI | STATE AZ | | ~~GAMMA - GAMMA DENSITY~~ |
| SEC. | TWP. | RGE. | |

| BOREHOLE DATA | | | LOG DATA | | | |
|---|---|---|---|---|---|---|
| DATE | 3-19-78 | | TOTAL DEPTH LOGGED | 225 | FT. | |
| DRILLER | AL / UNIVERSAL | | TOTAL FOOTAGE LOGGED | 285 | FT. | |
| DRILLER DEPTH | 255 | FT. | LOG SPEED | 15 | FT./MIN. | |
| BIT SIZE | 5 1/8 | IN. | LOG SCALE | 500=50 | CPS/IN. | T.C. 1 |
| FLUID LEVEL | 165 | FT. | DETECTOR TYPE | SCINT | DETECTOR SIZE | |
| CSG. | K=6.00E-5, 9.2 μs | | DECENTRALIZED | | CENTRALIZED | |
| | RERUN | | SOURCE TYPE | | SOURCE SIZE | |
| REMARKS | BOT 125 75 | | TRK. NO. | 61 | | |
| | TOP 95 55 | | OPERATOR | ERICKSON | | |
| | TOT 30 20 | | | | | |
| | γ 2K 2K | | | | | |



# MINERALS EXPLORATION CO.

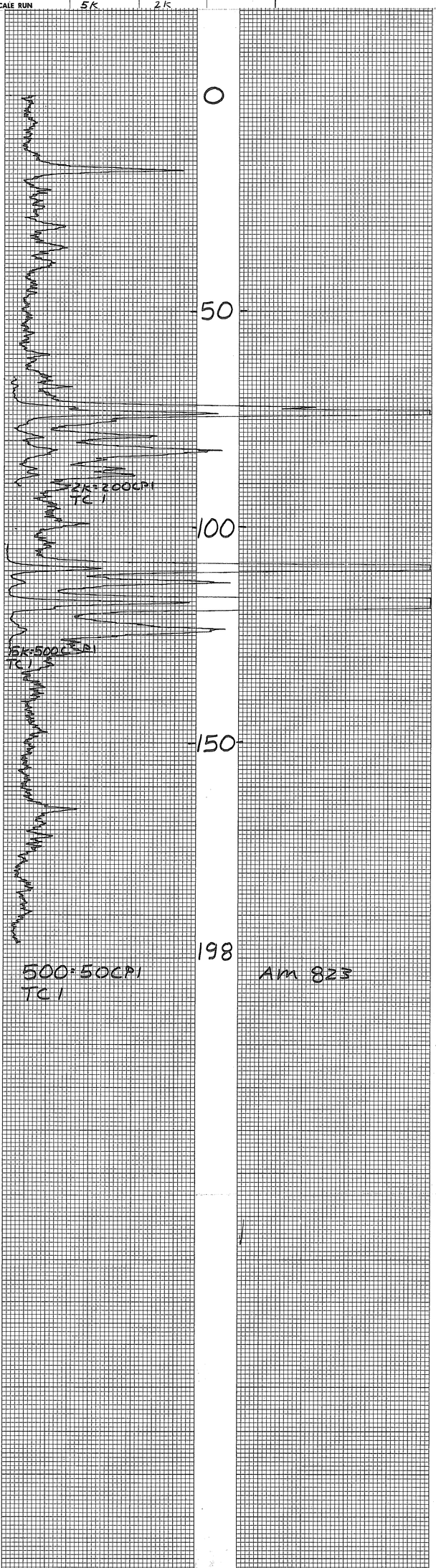
CASPER, WYOMING

HOLE NO. AM 823

| | |
|---|---|
| LOCATION | ANDERSON MINE |
| COUNTY | YAVAPAI |
| STATE | AZ |
| GP. | |
| ELEV. | |
| SEC. | |
| TWP. | |
| RGE. | |
| DATE | 3-27-78 |
| DEPTH DRILLED | |
| DEPTH LOGGED | 198 |
| FOOTAGE LOGGED | 248 |
| HOLE DIAMETER | 6 |
| WATER FACTOR | — |
| RESISTIVITY | — OHMS/INCH |
| SELF POTENTIAL | — M.V./IN. |

| RERUNS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
|---|---|---|---|
| BOTTOM | 130 | 90 | |
| TOP | 105 | 65 | |
| TOTAL FEET | 25 | 25 | |
| SCALE RUN | 5K | 2K | |

| | |
|---|---|
| GAMMA SCALE | 500=50CPI |
| PROBE TYPE | SC INT |
| K-FACTOR | 6.00E-5 |
| DEAD TIME | 9.2 μs |
| TIME CONSTANT | 1 |
| PROBE DIA. | 1 5/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERICKSON |
| DRILLER | ED |
| CONTRACTOR | VENTURE |
| LAST A.E.C. PIT RUN | 2-24-78 |
| FLUID LEVEL | |
| REMARKS: | |

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Denver, Colo.

C-265-B LP 121488

| | |
|---|---|
| COMPANY | MINERALS EXPLORATION |
| BORE HOLE | AM 824 |
| AREA | ANDERSON MINE |
| COUNTY | YAVAPAI |
| STATE | ARIZONA |
| SECTION | TOWNSHIP / RANGE |
| DATE | 3-19-78 |
| ELEVATION (GROUND LEVEL) | 165' |
| TOTAL FOOTAGE DRILLED | 165' |
| DEPTH | 180 |
| CASING | — |
| BIT SIZE | 6.5 |
| BORE HOLE FLUID | — |
| DENSITY | 1.24 |
| VISCOSITY | — |
| RESISTIVITY | — |
| OPERATOR | M. DODGE |
| LOCATION | WICKENBERG, AZ |
| ELEVATION | 1750 |
| TIME 1 | 0.25 hrs. |
| TIME 2 | 0.25 hrs. |
| TIME 3 | 0.5 hrs. |
| TOTAL TIME | hrs. |
| ROUNDTRIP MILEAGE | miles |
| OVERNIGHT STANDBY | hrs. |

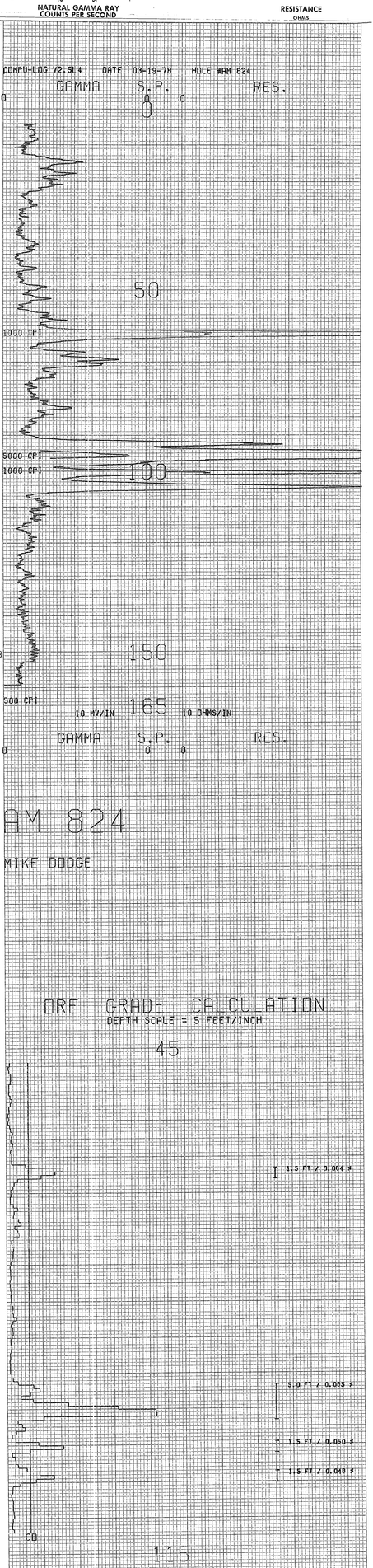
| INITIAL RUN | | GAMMA BOREHOLE (initial run offset) | | |
|---|---|---|---|---|
| F.B. LOGGED | 165' | SCALE | SCALE | SCALE |
| GAMMA SCALE | 500 Cps. Per In. | F.C. / LOGGING SPEED / Sec. / Ft./Min. | F.C. / LOGGING SPEED / Sec. / Ft./Min. | F.C. / LOGGING SPEED / Sec. / Ft./Min. |
| SHIE CONSTANT | LOGGING SPEED 60 Ft./Min. | FROM Ft. | FROM Ft. | FROM Ft. |
| CALIBRATION & PROBE DATA | | TO Ft. | TO Ft. | TO Ft. |
| SOURCE NO. | SOURCE VALUE | TOTAL | TOTAL | TOTAL |

| | |
|---|---|
| PROBE NO. | 9055-23 |
| PROBE SIZE | 1 7/8 in. |
| DETECTOR | NaI Scint. Xtal 7/8x4 |
| PMT & BASE | RCA 6199 |
| BASE TYPE | 19 Section |
| WATER FACTOR | 5.58×10⁻⁶ |
| LOG FACTOR | 1.00 |
| RES. SCALE | — ohms |
| S.P. | — millivolts |
| | — Mv/In. |

TRACE USED: #2
PROBE K-FACTOR FROM E.R.D.A. PITS 3-10-78: 5.695×10⁻⁶
RIG: VENTURE (ED)

SELF POTENTIAL
− (0 Mv 0) +
NATURAL GAMMA RAY
COUNTS PER SECOND

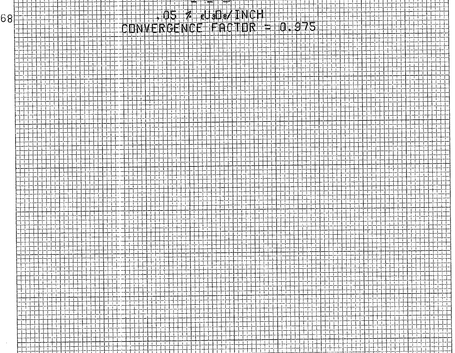
DENSITY
RESISTANCE
OHMS




AM 824

MIKE DODGE

ORE GRADE CALCULATION
DEPTH SCALE = 5 FEET/INCH




.05 % U3O8/INCH
CONVERGENCE FACTOR = 0.975

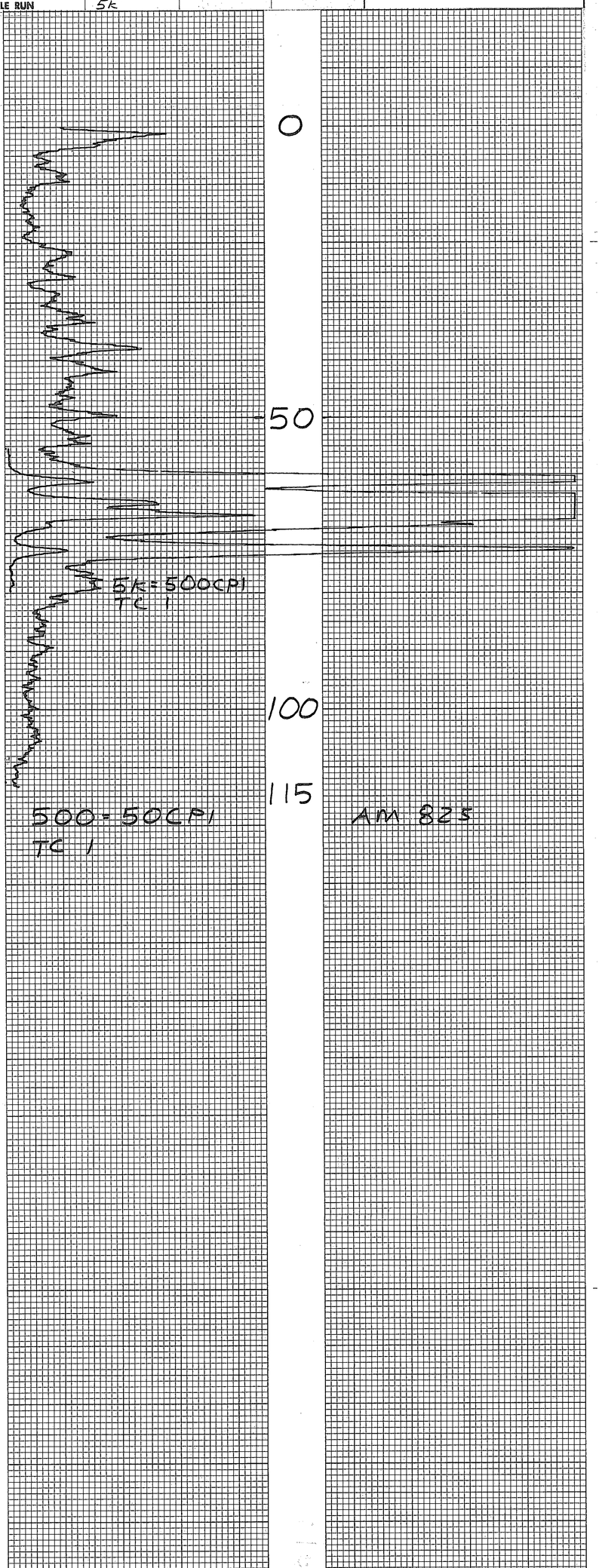
# MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 825

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | | |
| COUNTY | YAVAPAI | STATE | AZ |
| GP. | | ELEV. | |
| SEC. | TWP. | RGE. | |
| DATE | 3-29-78 | | |
| DEPTH DRILLED | 115 | | |
| DEPTH LOGGED | 115 | | |
| FOOTAGE LOGGED | | | |
| HOLE DIAMETER | 6 | | |
| WATER FACTOR | – | | |
| RESISTIVITY | – | OHMS/INCH | |
| SELF POTENTIAL | – | M.V./IN. | |
| RERUNS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
| BOTTOM | 80 | | |
| TOP | 55 | | |
| TOTAL FEET | 25 | | |
| SCALE RUN | 5K | | |

| | |
|---|---|
| GAMMA SCALE | 500 = 50CPI |
| PROBE TYPE | SCINT |
| K-FACTOR | 6.00 E-5 |
| DEAD TIME | 9.2 us |
| TIME CONSTANT | 1 |
| PROBE DIA. | 1 5/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERICKSON |
| DRILLER | DENNIS |
| CONTRACTOR | VENTURE |
| LAST A.E.C. PIT RUN | 2-24-78 |
| FLUID LEVEL | |
| REMARKS: | |

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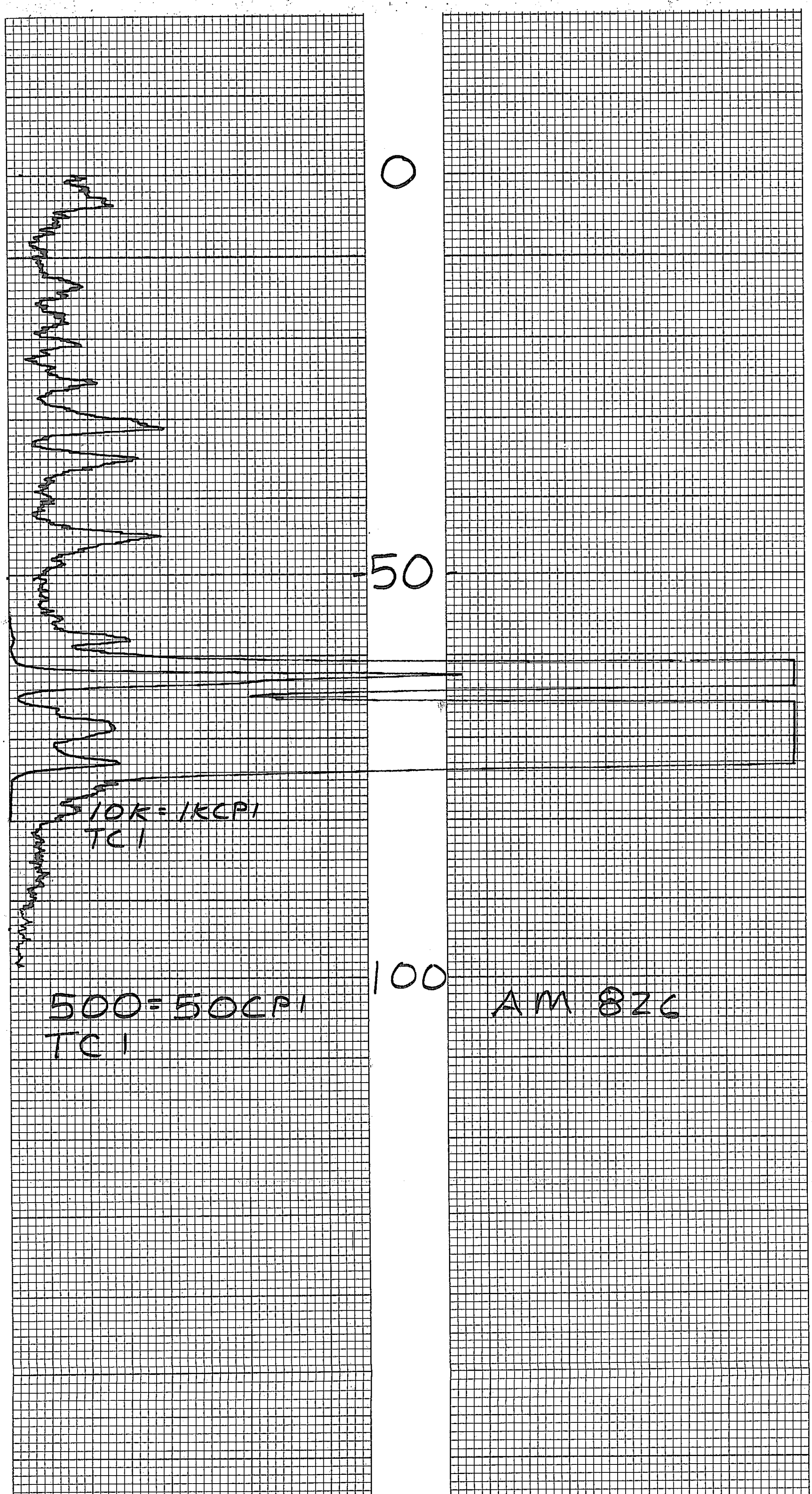
# MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 826

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | | |
| COUNTY | YAVAPAI | STATE AZ | |
| GP. | | ELEV. | |
| SEC. | TWP. | RGE. | |
| DATE | 3-29-78 | | |
| DEPTH DRILLED | 100 | | |
| DEPTH LOGGED | 100 | | |
| FOOTAGE LOGGED | | | |
| HOLE DIAMETER | 6 | | |
| WATER FACTOR | – | | |
| RESISTIVITY | – | OHMS/INCH | |
| SELF POTENTIAL | – | M.V./IN. | |
| RERUNS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
| BOTTOM | 80 | | |
| TOP | 55 | | |
| TOTAL FEET | 25 | | |
| SCALE RUN | 10K | | |

| | |
|---|---|
| GAMMA SCALE | 500=50CPI |
| PROBE TYPE | SCINT |
| K-FACTOR | 6.00 E-5 |
| DEAD TIME | 9.2us |
| TIME CONSTANT | 1 |
| PROBE DIA. | 1 5/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERICKSON |
| DRILLER | DENNIS |
| CONTRACTOR | VENTURE |
| LAST A.E.C. PIT RUN | 2-24-78 |
| FLUID LEVEL | |
| REMARKS: | |

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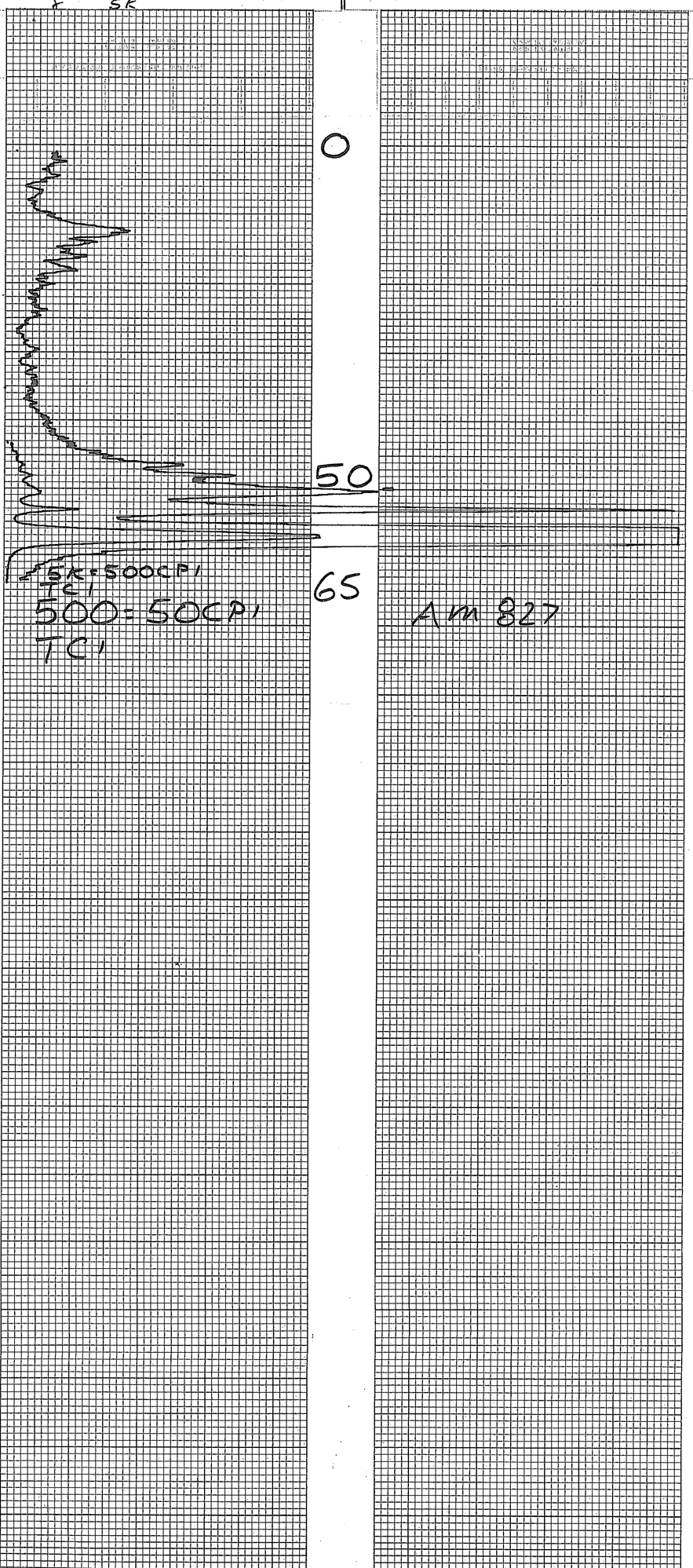
# MINERALS EXPLORATION CO.

CASPER, WYOMIN

| | | |
|---|---|---|
| AREA ANDERSON MINE | | |
| GRID POINT | ELEVATION | HOLE NO. Am 827 |
| COUNTY YAVAPAI | STATE AZ | ~~GAMMA - GAMMA DENSITY~~ |
| SEC. | TWP. | RGE. |

| BOREHOLE DATA | | | LOG DATA | | |
|---|---|---|---|---|---|
| DATE | 3-19-78 | | TOTAL DEPTH LOGGED | 65 | FT. |
| DRILLER | DENNIS / VENTURE | | TOTAL FOOTAGE LOGGED | 85 | FT. |
| DRILLER DEPTH | 65 | FT. | LOG SPEED | 15 | FT./MIN. |
| BIT SIZE | 6 | IN. | LOG SCALE | 500 = 50 CPS/IN. | T.C. |
| FLUID LEVEL | | FT. | DETECTOR TYPE | SCINT | DETECTOR SIZE |
| CSG. | K = 6.00 E-5, Dt = 9.2 μs | | DECENTRALIZED | | CENTRALIZED |
| | RERUN | | SOURCE TYPE | | SOURCE SIZE |
| REMARKS | BOT 65 | | TRK. NO. | 61 | |
| | TOP 45 | | OPERATOR | ERICKSON | |
| | TOT 20 | | | | |
| | K 5K | | | | |

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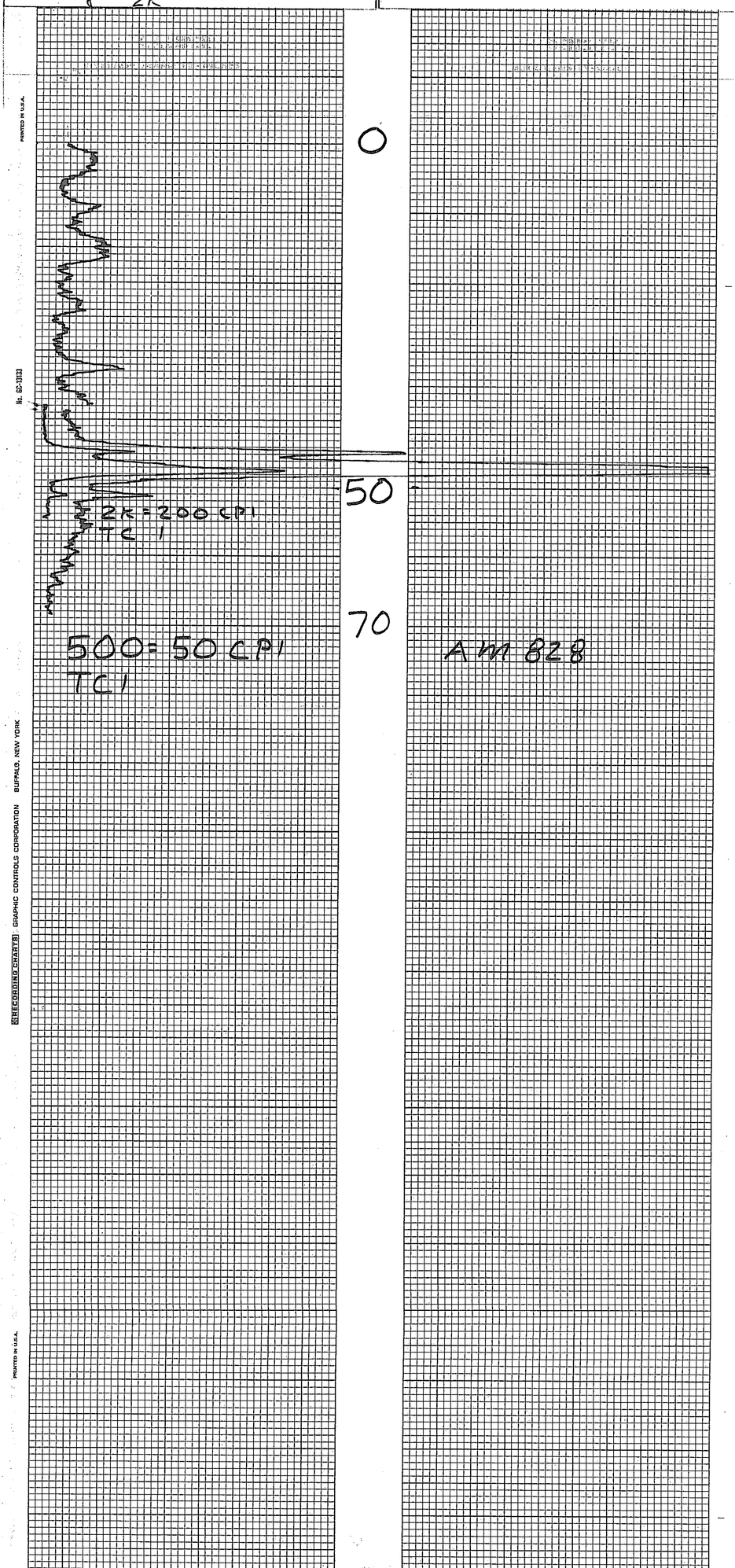
# MINERALS EXPLORATION CO.

CASPER, WYOMIN

| | | |
|---|---|---|
| AREA ANDERSON MINE | | |
| GRID POINT | ELEVATION | HOLE NO. Am 828 |
| COUNTY YAVAPAI | STATE AZ | GAMMA - GAMMA DENSITY |
| SEC. | TWP. | RGE. |

| BOREHOLE DATA | |
|---|---|
| DATE | 3-19-78 |
| DRILLER | DENNIS / VENTURE |
| DRILLER DEPTH | 70 FT. |
| BIT SIZE | 6 IN. |
| FLUID LEVEL | FT. |
| CSG. | K=6.00 E-5, Dt=9.2 |
| REMARKS | RERUN<br>BOT. 55<br>TOP. 40<br>TOT. 15<br>& 2K |

| LOG DATA | | | |
|---|---|---|---|
| TOTAL DEPTH LOGGED | 70 FT. | | |
| TOTAL FOOTAGE LOGGED | 85 FT. | | |
| LOG SPEED | 15 FT./MIN. | | |
| LOG SCALE | 500=50 CPS/IN. | T.C. | 1 |
| DETECTOR TYPE | SCINT | DETECTOR SIZE | |
| DECENTRALIZED | | CENTRALIZED | |
| SOURCE TYPE | | SOURCE SIZE | |
| TRK. NO. | 61 | | |
| OPERATOR | ERICKSON | | |

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# MINERALS EXPLORATION CO.

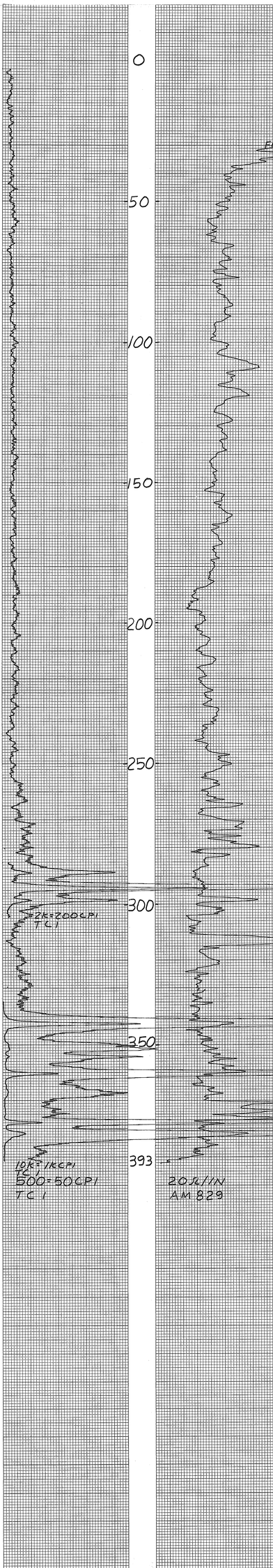
CASPER, WYOMING

HOLE NO. AM 829

| | |
|---|---|
| LOCATION | ANDERSON MINE |
| COUNTY | YAVAPAI |
| STATE | AZ |
| GP. | |
| ELEV. | |

| | |
|---|---|
| GAMMA SCALE | 500=50CPI |
| PROBE TYPE | SCINT |
| K-FACTOR | 6.3 E-5 |
| DEAD TIME | 9.2 μs |
| TIME CONSTANT | 1 |
| PROBE DIA. | 1 3/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERICKSON |
| DRILLER | VERN |
| CONTRACTOR | HARRIS |
| LAST A.E.C. PIT RUN | 2-24-78 |
| FLUID LEVEL | 30 |
| REMARKS: | |

| | | | |
|---|---|---|---|
| SEC. | TWP. | RGE. | |
| DATE | 4-15-78 | | |
| DEPTH DRILLED | 395 | | |
| DEPTH LOGGED | 393 | | |
| FOOTAGE LOGGED | | | |
| HOLE DIAMETER | 5 7/8 | | |
| WATER FACTOR | 1.2 | | |
| RESISTIVITY | 20 | OHMS/INCH | |
| SELF POTENTIAL | – | M.V./IN. | |
| RERUNS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
| BOTTOM | 393 | 305 | |
| TOP | 335 | 285 | |
| TOTAL FEET | 58 | 20 | |
| SCALE RUN | 10K | 2K | |



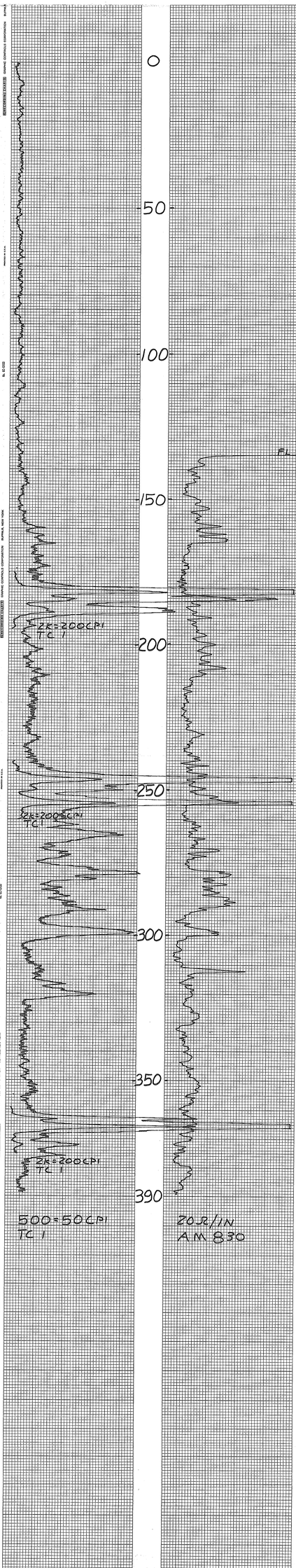
# MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 830

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | | |
| COUNTY | YAVAPAI | STATE | AZ |
| GP. | | ELEV. | |
| SEC. | TWP. | RGE. | |
| DATE | 4-11-78 | | |
| DEPTH DRILLED | 400 | | |
| DEPTH LOGGED | 390 | | |
| FOOTAGE LOGGED | | | |
| HOLE DIAMETER | 5 1/8 | | |
| WATER FACTOR | 1.2 | | |
| RESISTIVITY | 20 | OHMS/INCH | |
| SELF POTENTIAL | – | M.V./IN. | |
| RERUNS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
| BOTTOM | 375 | 260 | 195 |
| TOP | 360 | 240 | 175 |
| TOTAL FEET | 15 | 20 | 20 |
| SCALE RUN | 2K | 2K | 2K |

| | |
|---|---|
| GAMMA SCALE | 500=50CPI |
| PROBE TYPE | SCINT |
| K-FACTOR | 6.3E-5 |
| DEAD TIME | 9.2 μs |
| TIME CONSTANT | 1 |
| PROBE DIA. | 1 5/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERICKSON |
| DRILLER | JIM |
| CONTRACTOR | HARRIS |
| LAST A.E.C. PIT RUN | 2-24-78 |
| FLUID LEVEL | 135 |
| REMARKS: | |



PROJECT ANDERSON HOLE SIZE 5 1/8 ☐ AIR ☒ WATER HOLE NO. AM 821

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY LUCHT DATE 19 MAR 78

SECTION _____ TOWNSHIP _____ RANGE _____ T.D. 280 P.D. 276

COBRA - CENTURY

| GEOPHYSICAL LOG | DEPTH | P | C | A | STRIP LOG | LITHOLOGY LOG |
|---|---|---|---|---|---|---|
| | | | | | | 0-15 WHITE SILT W/ SOME BROWN CHERT MIXED IN |
| | 20 | | | | | 15-35 OLIVE GREEN SILT |
| | 40 | | | | | 35-50 WHITE SILT |
| | 60 | | | | | 50-55 GREEN SILACEOUS LAKEBEDS |
| | 80 | | | | | 55-60 GREEN SILT |
| | 00 | | | | | 60-80 WHITE SILT |
| | | | | | | 80-85 GREEN SILT |
| | | | | | | 85-100 WHITE SILACEOUS LAKEBED |
| | 20 | | | | | 100-115 V. LT GRAY SILT |
| | | | | | | 115-125 SLIGHTLY CARBONACEOUS SILT |
| | 40 | | | | | 125-155 LIGNITE + LIGNITIC SHALE |
| | 60 | | | | | 155-165 V. LT GRAY SAND |
| | 80 | | | | | 165-185 OLIVE GREEN CLAY |
| | 00 | | | | | 185-225 YELLOW BROWN SILT |
| | 20 | | | | | 225 255 GREEN SILT W/ TRACE CARBON 245-250 |
| | 40 | | | | | 255-270 RED ANDESITIC AGGLOMERATE |
| | 60 | | | | | 270-275 BLACK ANDESITE |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |

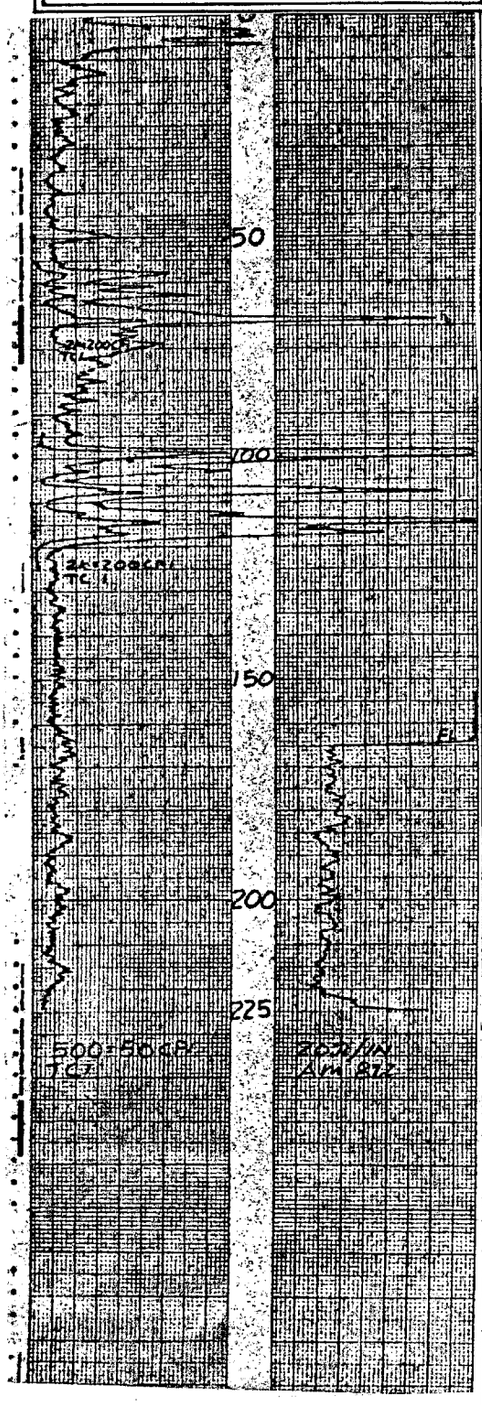
PROJECT ANDERSON MINE HOLE SIZE 5 1/8 ☒ AIR ☐ WATER HOLE NO. AM 822

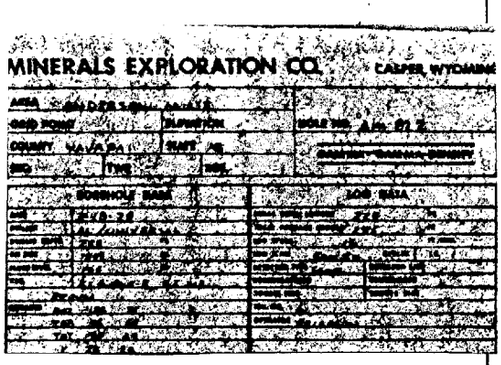
ELEVATION _____ NORTH _____ EAST _____ LOGGED BY LUCHT DATE 19 MAR 78

SECTION _____ TOWNSHIP _____ RANGE _____ T.D. 255 P.D. 225

UNIVERSAL - MINERALS 61

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



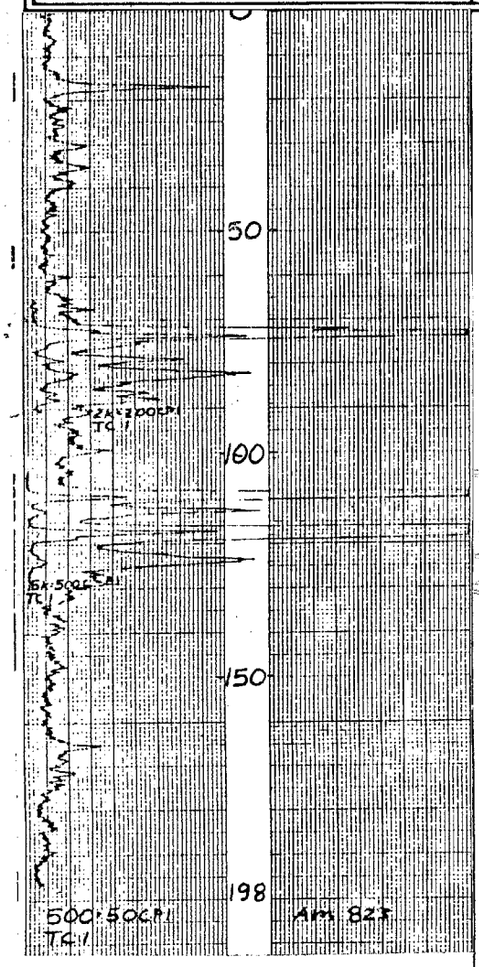

0-5 CHERT
5-10 WHITE LAKEBEDS
10-15 CHERT
15-20 OLIVE GREEN LAKEBEDS
20-25 WHITE SILACEOUS LAKEBEDS
25-35 OLIVE GREEN SILT
35-55 WHITE LAKEBEDS
55-95 TAN LAKEBEDS
95-115 BLACK LIGNITE
115-140 DARK GRAY CLAY W/ LIGNITE
140-180 GREENISH BROWN LAKEBEDS W/ LIGNITE (POSSIBLY CONTAMINATION FROM ABOVE
180-200 AS ABOVE - NO LIGNITE
200-250 OLIVE GREEN SILT
250-255 ANDESITE

**PROJECT** ANDERSON MINE **HOLE SIZE** _____ ☑ AIR ☐ WATER **HOLE NO.** AM 823

**ELEVATION** _____ **NORTH** _____ **EAST** _____ **LOGGED BY** K. TAYLOR **DATE** 3/13/78

**SECTION** _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 210' **P.D.** _____

| GEOPHYSICAL LOG | DEPTH | LITHOLOGY | GEOCHEMISTRY |
|---|---|---|---|




lt grey to lt green mudst.

olive green mudst, highly siliceous.

olive green mudst, w/interbd. lt grey to lt green calc? mudst

olive green mudst., highly siliceous, red brn. chert,

carbonaceous zone, grey to grey brown mudst, lignitic zones.

lignitic zn.

interbd olive green & grey green mudst.

olive green mudst.

yellowbrown mudst.

red mudst

andesite frags.

MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 823

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | | |
| COUNTY | YAVAPAI STATE AZ | | |
| GP. | ELEV. | | |
| DRL. | TWP. | RGE. | |
| DATE | 3-27-78 | | |
| DEPTH DRILLED | | | |
| DEPTH LOGGED | 128 | | |
| FOOTAGE LOGGED | 248 | | |
| HOLE DIAMETER | 6 | | |
| WATER FACTOR | | | |
| GRAVITY | GRAM/INCH | | |
| SELF POTENTIAL | MV/FT. | | |
| DRILL RUN | FIR. RUN | SEC. RUN | THIR. RUN |
| BOTTOM | 150 | 90 | |
| TOP | 105 | 65 | |
| TOTAL FEET | 25 | 25 | |
| SCALE RUN | 5K | 2K | |

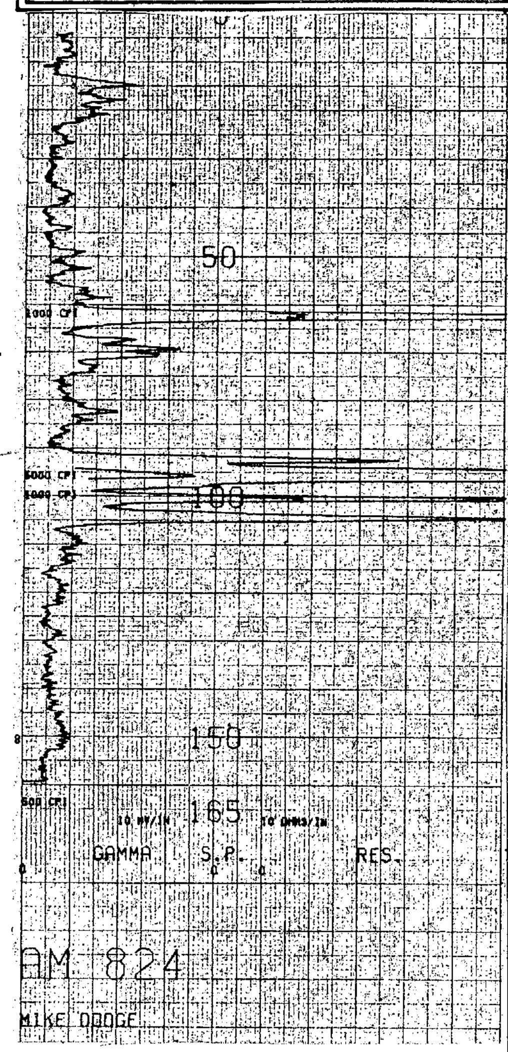
| | |
|---|---|
| GAMMA SCALE | 500·50CPI |
| PROBE TYPE | SC INT. |
| S-FACTOR | 6.00E-8 |
| GAMMA RUN | 9.2 MAR |
| TAPE COMPANY | 1 |
| PROBE DIA. | 1 5/8 |
| CALIPER | |
| DIRECTIONAL SURVEY | |
| TEMPERATURE | |
| OPERATOR | ERICKSON |
| DRILLER | ED |
| CONTRACTOR | VENTURE |
| LAST A.E.C. PR RUN | 2-24-78 |
| FLUID LEVEL | |
| REMARKS | |

PROJECT ANDERSON MINE HOLE SIZE ____ ☑ AIR ☐ WATER **HOLE NO.** AM 824

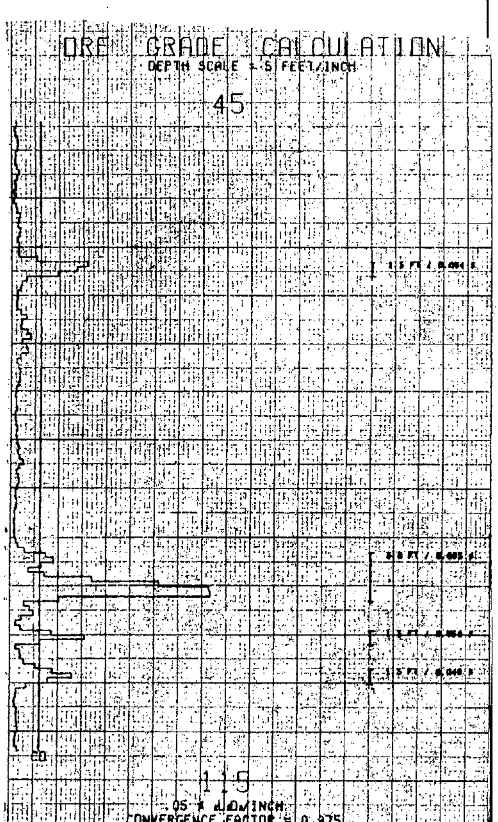
ELEVATION ____ NORTH ____ EAST ____ LOGGED BY K. TAYLOR DATE 3/18/78

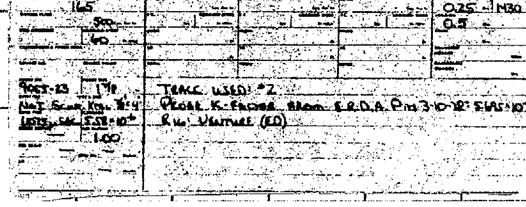
SECTION ____ TOWNSHIP ____ RANGE ____ T.D. 165' P.D. ____

| GEOPHYSICAL LOG | DEPTH | LITHOLOGY | GEOCHEMISTRY |
|---|---|---|---|




| Depth | Lithology |
|---|---|
| 0–15 | olive green mudstone |
| 15–20 | olive green mudstone, interbd hard silicic brown to green, |
| 20–40 | olive green mudst. |
| 40–60 | interbd olive green mudst. & lt green to white mudst (calc?) |
| 60–75 | olive green mudst, hard, highly silicic, red chert |
| 75–80 | red mudst. |
| 80–126 | carbonaceous zone, dk grey to grey mudst, lignite zones (lignite zone) |
| 126–146 | olive green mudst. |
| 146–155 | brown mudstone |
| 155–165 | red mudst, black andesite frags. |



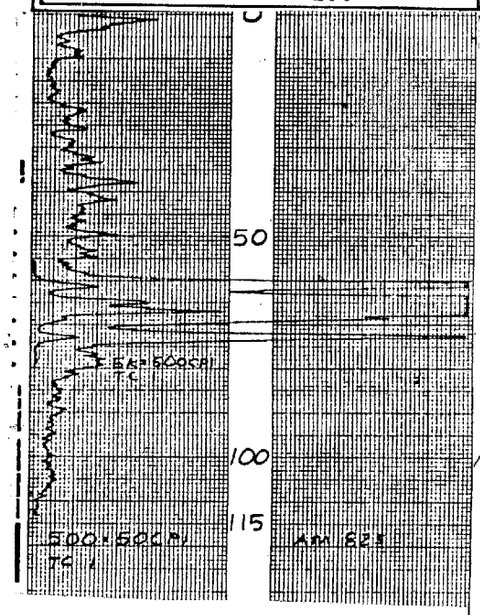
PROJECT ANDERSON MINE HOLE SIZE _____ ☑ AIR ☐ WATER HOLE NO. AM 825

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY K. TAYLOR DATE 3/29/78

SECTION _____ TOWNSHIP _____ RANGE _____ T.D. 115 P.D. _____

VENTURE

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




green mudstone
interbd lt green + green mudstn.
green to grey green siliceous mudstn. red chert.
interbd brown + green ~~siliceous~~ + grey siliceous mudstn. red chert.
grey mudstn
interbd green + red mudstn.
carbonaceous, interbd lignite, dk grey + grey mudstn.
interbd grey green to blue grey to grey mudstn (coal?)
interbd green, grey, + some brown mudstn.
greenish brown mudstn.
grey brown mudstn
dk grey andesite frags

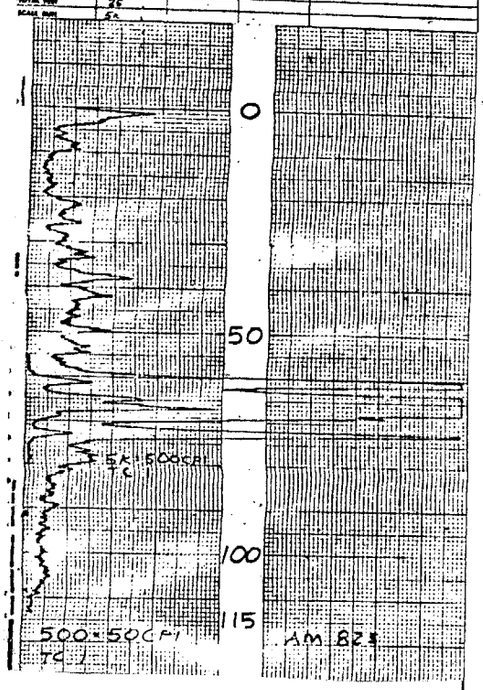
MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 825

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | GAMMA SCALE | 500×50CPI |
| COUNTY | YAVAPAI STATE AZ | PROBE TYPE | SCINT |
| GP. | ELEV. | D-FACTOR | 6.00E-5 |
| SEC. | TWP. RGE. | DEAD TIME | 9.2 GAS |
| DATE | 3-29-78 | TIME CONSTANT | 1 |
| DEPTH DRILLED | 115 | PROBE DIA. | 1 1/2 |
| DEPTH LOGGED | 115 | CALIPER | |
| FOOTAGE LOGGED | | DIRECTIONAL SURVEY | |
| HOLE DIAMETER | 6 | TEMPERATURE | |
| WATER FACTOR | – | OPERATOR | ERICKSON |
| SENSITIVITY | – OHMS/INCH | DRILLER | DENNIS |
| SELF POTENTIAL | – M.V./IN. | CONTRACTOR | VENTURE |
| | | LAST A.R.C. PR RUN | 2-24-78 |
| | | FLUID LEVEL | |
| | | REMARKS | |

| | 1ST. RUN | 2ND. RUN | 3RD. RUN |
|---|---|---|---|
| BOTTOM | 80 | | |
| TOP | 55 | | |
| TOTAL FEET | 25 | | |
| SCALE RUN | 5K | | |




MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 825

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | GAMMA SCALE | 500×50CPI |
| COUNTY | YAVAPAI STATE AZ | PROBE TYPE | SCINT |
| GP. | ELEV. | D-FACTOR | 6.00E-5 |
| SEC. | TWP. RGE. | DEAD TIME | 9.2 GAS |
| DATE | 3-29-78 | TIME CONSTANT | 1 |
| DEPTH DRILLED | 115 | PROBE DIA. | 1 1/2 |
| DEPTH LOGGED | 115 | CALIPER | – |
| FOOTAGE LOGGED | | DIRECTIONAL SURVEY | – |
| HOLE DIAMETER | 6 | TEMPERATURE | – |
| WATER FACTOR | – | OPERATOR | ERICKSON |
| SENSITIVITY | – OHMS/INCH | DRILLER | DENNIS |
| SELF POTENTIAL | – M.V./IN. | CONTRACTOR | VENTURE |
| | | LAST A.R.C. PR RUN | 2-24-78 |
| | | FLUID LEVEL | |
| | | REMARKS | |

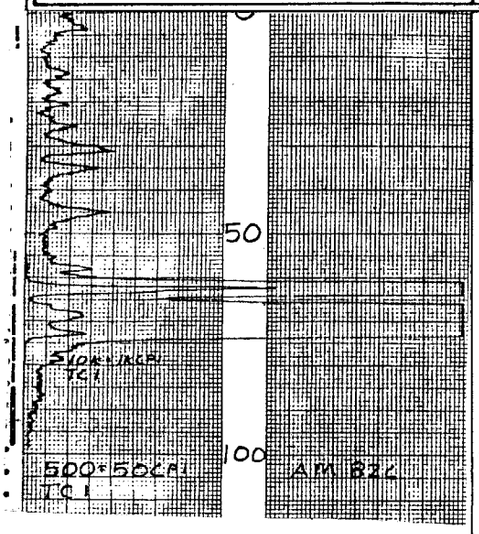
| | 1ST. RUN | 2ND. RUN | 3RD. RUN |
|---|---|---|---|
| BOTTOM | 80 | | |
| TOP | 55 | | |
| TOTAL FEET | 25 | | |
| SCALE RUN | 5K | | |

**PROJECT** ANDERSON MINE **HOLE SIZE** _____ ☑ AIR ☐ WATER **HOLE NO.** AM 826

**ELEVATION** _____ **NORTH** _____ **EAST** _____ **LOGGED BY** K. TAYLOR **DATE** 3/29/78

**SECTION** _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 100 **P.D.** _____

VENTURE

| GEOPHYSICAL LOG | DEPTH | P | C | A | STRIP LOG | LITHOLOGY LOG |
|---|---|---|---|---|---|---|
|  | | | | | | lt green siliceous mudstn, pink chert |
| | | | | | | green mudstn |
| | 20 | | | | | |
| | | | | | | green mudstn, interbd grey siliceous mudstn. |
| | | | | | | lt green mudst w/ interbd grey siliceous mudstn |
| | 40 | | | | | |
| | | | | | | |
| | 60 | | | | | red mudstn, red brown chert; lt green mudstn |
| | | | | | | dk grey mudstn, grey brown mudstn, lignite |
| | | | | | | dk grey mudstn, some lignite |
| | 80 | | | | | lt grey mudstn |
| | | | | | | grey green mudstn |
| | | | | | | intrbd brown + green mudstn |
| | | | | | | grey brown mudstn, andesite frags. |
| | 100 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |
| | 20 | | | | | |
| | 40 | | | | | |
| | 60 | | | | | |
| | 80 | | | | | |
| | 00 | | | | | |



**MINERALS EXPLORATION CO.**

CASPER, WYOMING — HOLE NO. AM 826

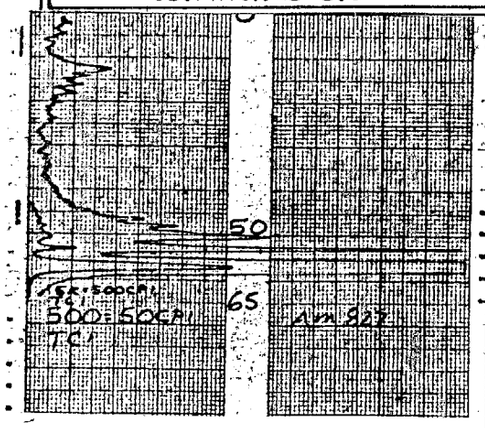
| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | | |
| COUNTY | YAVAPAI STATE AZ | | |
| QR. | SURV. | | |
| SEC. | TWP. | RGE. | |
| DATE | 3-29-78 | | |
| DEPTH DRILLED | 100 | | |
| DEPTH LOGGED | 100 | | |
| FOOTAGE LOGGED | | | |
| HOLE DIAMETER | 6 | | |
| WATER FACTOR | – | | |
| RESISTIVITY | – | OHMS/INCH | |
| SELF POTENTIAL | – | MV/DIV. | – |
| GAUGE | 1ST. RUN | 2ND. RUN | 3RD. RUN |
| BOTTOM | 80 | | |
| TOP | 55 | | |
| TOTAL FILL | 25 | | |
| SCALE RUN | 10K | | |

| | |
|---|---|
| GAMMA SCALE | 500:50CPI |
| PROBE TYPE | SLIMT |
| SENSOR | 6.08 E-5 |
| SCALE TOTAL | 9 Ecal |
| TIME CONSTANT | 1 |
| PROBE DIA. | 1 1/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERICKSON |
| DRILLER | DENSLIT |
| CONTRACTOR | VENTURE |
| LAST A.S.C. OF RUN | 2-24-78 |
| FLUID LEVEL | |
| REMARKS | |

**PROJECT** ANDERSON MINE **HOLE SIZE** _____ ☑ AIR ☐ WATER **HOLE NO.** AM 827

**ELEVATION** _____ **NORTH** _____ **EAST** _____ **LOGGED BY** K. TAYLOR **DATE** 3/18/78

**SECTION** _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 65 **P.D.** _____

| GEOPHYSICAL LOG | DEPTH | LITHOLOGY | GEOCHEMISTRY |
|---|---|---|---|
|  | | olive green, highly siliceous mudstone, red chert | |
| | 20 | grey to olive green highly siliceous mudst. | |
| | | olive green mudst. | |
| | 40 | interbd olive green & red brown mudst. | |
| | | red brown mudst. | |
| | | olive green mudst | |
| | 60 | grey purple mudst + black andesite frags. | |
| | 80 | | |
| | 00 | | |
| | 20 | | |
| | 40 | | |
| | 60 | | |
| | 80 | | |
| | 00 | | |
| | 20 | | |
| | 40 | | |
| | 60 | | |
| | 80 | | |
| | 00 | | |
| | 20 | | |
| | 40 | | |
| | 60 | | |
| | 80 | | |
| | 00 | | |
| | 20 | | |
| | 40 | | |
| | 60 | | |
| | 80 | | |
| | 00 | | |

**MINERALS EXPLORATION CO.** CASPER, WYOMING

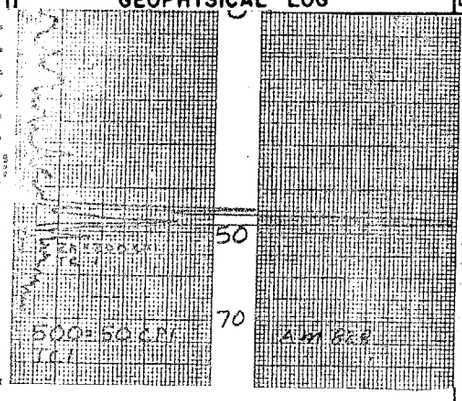
AREA ANDERSON MINE
GRID POINT ELEVATION HOLE NO. AM 827
COUNTY SANTA FE STATE N.M.
SEC. TWP. RGE.

| BOREHOLE DATA | | LOG DATA | |
|---|---|---|---|
| DATE | 3-18-78 | TOTAL DEPTH LOGGED | 65 |
| DRILLER | DUBOIS & VERDUGO | TOTAL TRAVELED | 50 |
| DRILLED DEPTH | 65 | LOG TYPE | GR |
| CASING | | LOG DATE | 3-18-78 |
| CASING DEPTH | | DETECTOR TYPE | SCINT. |
| HOLE | CLEANED & BLOWN | MECHANICAL DATA | |
| DEPTHS | | TRACKS | |
| BIT | 8 1/2 | REC. NO. | 1 |
| TOP | 8 1/2 | OPERATOR | R. BILLINGS |
| TOP | 8 1/2 | | |
| | 8 1/2 | | |

**PROJECT** ANDERSON MINE **HOLE SIZE** _____ ☒ AIR ☐ WATER **HOLE NO.** AM82B

**ELEVATION** _____ **NORTH** _____ **EAST** _____ **LOGGED BY** K. TAYLOR **DATE** 3/19/78

**SECTION** _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 70 **P.D.** _____

| GEOPHYSICAL LOG | DEPTH | LITHOLOGY | GEOCHEMISTRY |
|---|---|---|---|
|  | | | |



lt. brn. silt, sand, gravel
highly siliceous lt green mudstone, chert (lt brn)

grey siliceous mudst.
redish grey siliceous mudst.
olive green mudstone
interbed olive green to brn mudst.
black to greyish purple andesite frags.

20 40 60 70 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20 40 60 80 00 20

... EXPLORATION CO. CASPER, WYOMING

| | | |
|---|---|---|
| ANDERSON MILLS | | |
| PAID POINT | ELEVATION | HOLE NO. Am 82B |
| COUNTY YAVAPAI | STATE AZ | GAMMA-GAMMA DENSITY |
| SEC. | TWP. | RGE. |

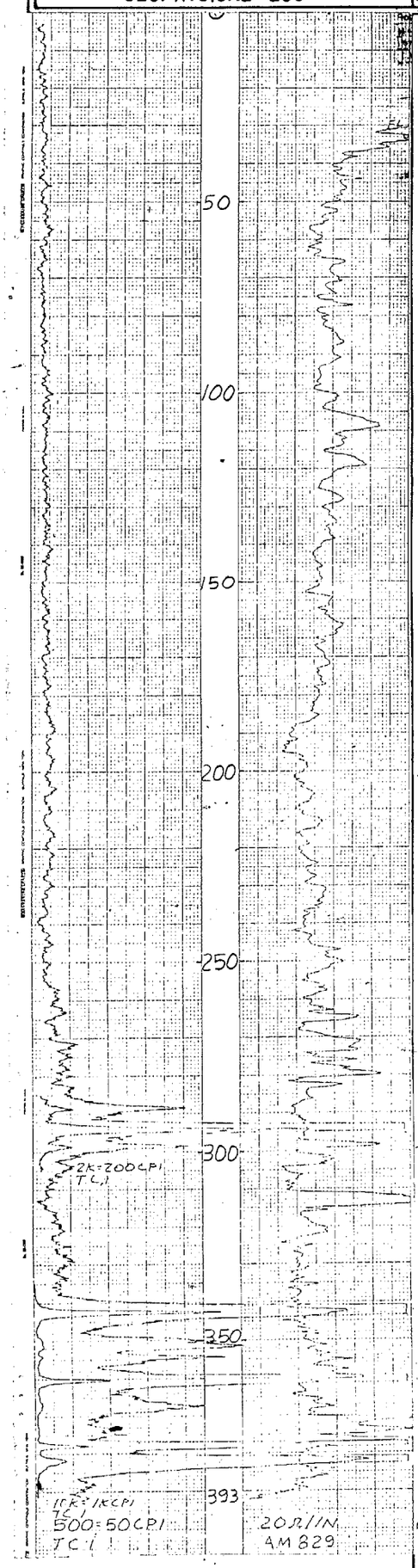
| SOREHOLE DATA | | LOG DATA | |
|---|---|---|---|
| DATE | 3-19-78 | TOTAL DEPTH LOGGED | 70 FT |
| DRILLER | DEMOSTIS / VENTURE | TOTAL FOOTAGE LOGGED | 85 FT |
| DRILLED DEPTH | 70 FT | LOG SPEED | 15 FT/MIN. |
| CASING SIZE | 6 IN. | LOG SCALE | 500=50 CPS/MV. TC. 1 |
| CASING DEPTH | FT | DETECTOR TYPE | SCINT. DETECTOR SIZE |
| FLUID LEVEL | FT | DISCRIMINATED | CONTINUOUS |
| ETC. | KEG OUR 8-2, DIL 82 | SOURCE TYPE | SOURCE SIZE |
| REMARKS | REGIN | FOL NO. | 61 |
| | SOT 55 | OPERATOR | E. RILLSON |
| | TBP 40 | | |
| | TOT 15 | | |
| | T 75 | | |

**PROJECT** ANDERSON MINE **HOLE SIZE** _____ ☐ AIR ☑ WATER **HOLE NO.** AM 829

**ELEVATION** _____ **NORTH** _____ **EAST** _____ **LOGGED BY** K. TAYLOR **DATE** 4/15/78

**SECTION** _____ **TOWNSHIP** _____ **RANGE** _____ **T.D.** 395 **P.D.** _____

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




| Depth | Lithology |
|---|---|
| 20 | brown silt, sand |
| 40 | |
| 60 | |
| 80 | |
| 100 | |
| 20 | |
| 40 | |
| 60 | |
| 80 | |
| 200 | |
| 20 | |
| | interbd green & brown mudstn. |
| 40 | interbd green & white mudstn. |
| 60 | green mudstn. |
| | interbd green & white mudstn, red chert frags |
| 80 | green mudstn. |
| | interbd green & dk grey mudstn. |
| 300 | |
| | green siliceous mudstn. |
| 20 | interbd green & dk grey siliceous mudstn. |
| | green mudstn. |
| 40 | grey green mudstn. |
| 60 | dk grey siliceous mudstn & lignite |
| 80 | DK GRAY CLAY |
| 400 | |
| 20 | |
| 40 | |
| 60 | |
| 80 | |
| 00 | |

HOLE T.D. BECAUSE OF CLUTCH ON RIG GOING OUT

MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 829

| | | | |
|---|---|---|---|
| LOCATION | ANDERSON MINE | GAMMA SCALE | 500=50CPI |
| COUNTY | YAVAPAI STATE AZ | PROBE TYPE | SLINT |
| GP. | ELEV. | K-FACTOR | 6.3 E-5 |
| SEC. | TWP. RGE. | DEAD TIME | 9.2 μs |
| DATE | 4-15-78 | TIME CONSTANT | 1 |
| DEPTH DRILLED | 395 | PROBE DIA. | 1 5/8 |
| DEPTH LOGGED | 391 | CALIPER | - |
| FOOTAGE LOGGED | | DIRECTIONAL SURVEY | - |
| HOLE DIAMETER | 5/8 | TEMPERATURE | - |
| WATER FACTOR | 1.2 | OPERATOR | ERICKSON |
| RESISTIVITY | 20 OHMS/INCH | DRILLER | VERN |
| SELF POTENTIAL | M.V./IN. | CONTRACTOR | HARRY |
| | | LAST A.E.C. PIT RUN | 2-24-78 |
| | | FLUID LEVEL | 30 |
| | | REMARKS: | |

| RERUNS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
|---|---|---|---|
| BOTTOM | 393 | 395 | |
| TOP | 335 | 285 | |
| TOTAL FEET | 58 | 20 | |
| SCALE RUN | 10K | 2K | |

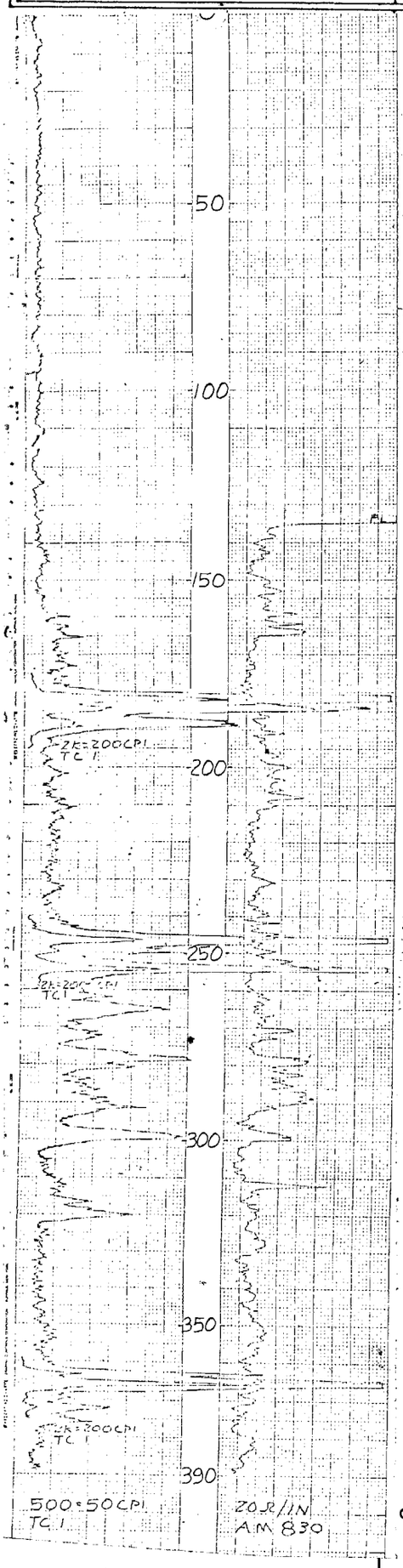
PROJECT _____ HOLE SIZE 6 1/2 ☑ AIR ☐ WATER HOLE NO. AM 830

ELEVATION _____ NORTH _____ EAST _____ LOGGED BY LUCHT DATE 11 APR 78

SECTION _____ TOWNSHIP _____ RANGE _____ T.D. 400 P.D. _____

HARRIS

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




| | |
|---|---|
| 0-25 | PINK CONG. |
| 25-60 | BROWN AND GRAY CONG. |
| 60-80 | BROWN CLAY |
| 80-160 | OLIVE GREEN SILTY CLAY |
| 160-220 | WHITE SILACEOUS SILT |
| 220-240 | OLIVE GREEN SILT |
| 240-280 | DK GRAY SIL. CARBON. SHALE |
| 280-295 | BROWN CLAY AND BLACK LIGNITE |
| 295-300 | BLACK LIGNITE |
| 300-330 | DK GRAY LIG. SHALE |
| 330-360 | YELL. BROWN SILTY SAND |
| 360-380 | DK GRAY SIL. CAR. SHALE |
| 380-400 | RED BROWN SAND W/ SOME VOLCANICS. |

MINERALS EXPLORATION CO.

CASPER, WYOMING

HOLE NO. AM 830

LOCATION ANDERSON MINE

COUNTY YAVAPAI STATE AZ

GP. ELEV.

SEC. TWP. RGE.

DATE 4 11 78

DEPTH DRILLED 400

DEPTH LOGGED 390

FOOTAGE LOGGED

HOLE DIAMETER 5 7/8

WATER FACTOR 1.4

RESISTIVITY 20 OHMS/INCH

SELF POTENTIAL – M.V./IN

| VERSUS | 1ST. RUN | 2ND. RUN | 3RD. RUN |
|---|---|---|---|
| BOTTOM | 375 | 360 | 195 |
| TOP | 360 | 2-165 | 1.75 |
| TOTAL FEET | 15 | 30 | 20 |
| SCALE RUN | 2R | 2R | 2R |

| | |
|---|---|
| GAMMA SCALE | 500=50CPI |
| PROBE TYPE | SCINT. |
| S.FACTOR | 0.5 |
| DEAD TIME | 0.5 |
| TIME CONSTANT | 1 |
| PROBE DIA | 1 5/8 |
| CALIPER | – |
| DIRECTIONAL SURVEY | – |
| TEMPERATURE | – |
| OPERATOR | ERLEWINE |
| DRILLER | JIM |
| CONTRACTOR | HARRIS |
| LAST A.E.C. PE RUN | 2-24-78 |
| FLUID LEVEL | 135 |

REMARKS: