

2004 - 2007

K-M
MINING TRANSIT BOOK

32 0028

5-17-2004

MT. PISGAN

N

HANDHELD GPS

UTM - 27 - 4600438 N

12420857 E

UTM - 93 - 4600644 N

12420792 E

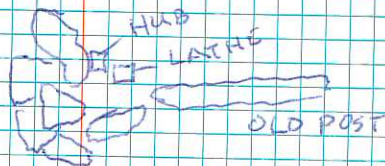
LAT - LONG -

N 41° 33.215'

W 111° 56.986'

33 | 34

4 | 3



MOUNDS OF
STONES

5-17-04

SOUTH OF MT. PEGAN

UTM 27-N 4599659

12 420831

83-N 4599864

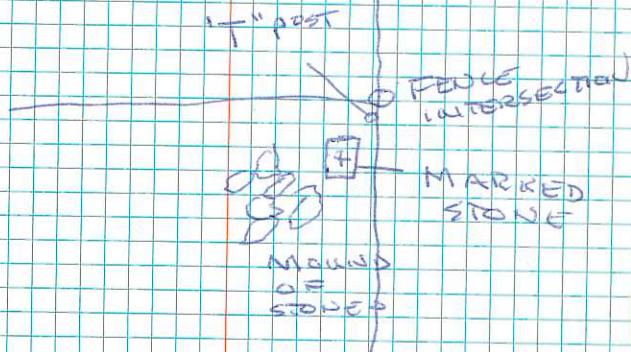
12 420768

LAT-LON
(83) 41° 32.79' N

111° 57.00' W



4+3



22 JUNE 2004 16' GRAVEL
FRANKLIN BASIN ROAD 30' WIDTH

PHOTO#	DIRECTION	NOTE
381	240°	BEG. OF NEW INTERSECTION
382	282°	NEW CATTLE GU.
383	285° ROAD 195° PARKING	SIDE MOBILE PARKING
384	309°	BRIDGE
385	336°	INTERSECTION PRIVATE CABIN
386	325°	(INTERSECTION TO STEEP HOLLOW)
387	281°	CULVERT
388	348°	ROAD PHOTO CAMP AREAS
389	301°	INTERSECTION OF ROAD TO STEEP HOLLOW

390	334°	CULVERT
391	355°	CULVERT
392	35°	BRIDGE
393	0°	RANCH
394	8°	SIGN BOSS CANYON WHITE "
395	5°	CATTLE GUARD (NEW)
396	27°	IDA. STATE LINE END OF OUR PORTION -
<hr/>		
397	247°	BEG STEEP
<hr/>		
398	326°	OLD STAND
399	308°	CULVERT OLD CULVERT IS PLUGGED UP. STREAM HAS BEEN RUNNING OVER THE ROAD FOR SEVERAL YEARS

STEEP HOLLOW
ROAD 10'
DISTURBED 15'

400	289°	INTERSECTION TO OLD LOGGING AREA.
401	333°	INTERSECTION TO OLD LOGGING AREA AND MTN TOP.
402	112°	END OF ROAD AND TURN AROUND

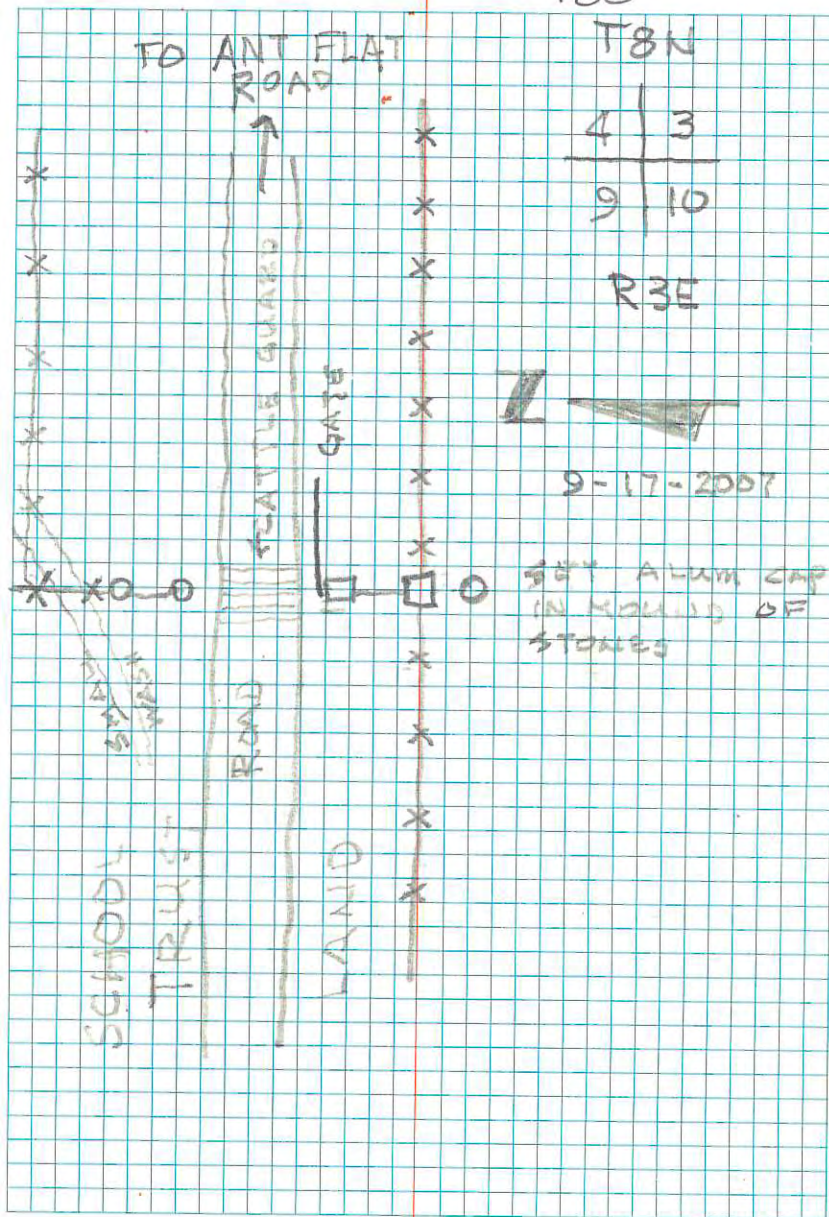
NOTE: THE FOREST SERVICE HAS
BLOCKED THIS ROAD JUST
PAST PHOTO # 401.
THE ROAD IS VERY EVIDENT
ALL OF THE WAY UP. BOULDERS
AND TREES HAVE BEEN PLACED
ACROSS THE ROAD IN SEVERAL
LOCATIONS.

SEARCH FOR ORIGINAL STONE
 DESCRIBED AS A 12X10X9 INCH
 STONE. I COULD NOT FIND ANY
 MARKED STONES, THE ORIGINAL
 NOTES DON'T GIVE ENOUGH
 INFORMATION TO LOCATE THE
 CORNER.

A R/R TIE POST WAS PLACED AT
 THE LOCATION OF AN OLD CEDAR
 POST. IN 2006, THE POST IS AT
 THE INTERSECTION OF THE EAST-
 WEST AND NORTH FEKE LINE WAS
 USED AT THE CORNER.

SET A COUNTRY ALUM CAP 30"
 LONG 18" IN THE GROUND PLACED
 A PILE OF STONES AROUND CAP
 AND THE CEMENTED THE STONES
 TOGETHER. NO TIES WERE SET
 AT THIS TIME.

#488



I SEARCHED FOR ANY TRACE OF THE ORIGINAL STONE. THE OLD NOTES DIDN'T HAVE ENOUGH INFO. TO REESTABLISH THE CORNER.

THERE IS AN OLD FENCE INTERSECTION WITH A VERY OLD CORNER POST. SOMEONE HAS MARKED A STONE AND PLACED IT AT THE INTERSECTION BUT THE MARKING APPEARED TO BE MADE RECENTLY AND THE STONE DOESN'T MATCH THE ORIGINAL DESCRIPTION.

I ACCEPTED THE FENCE POST AS THE BEST EVIDENCE.

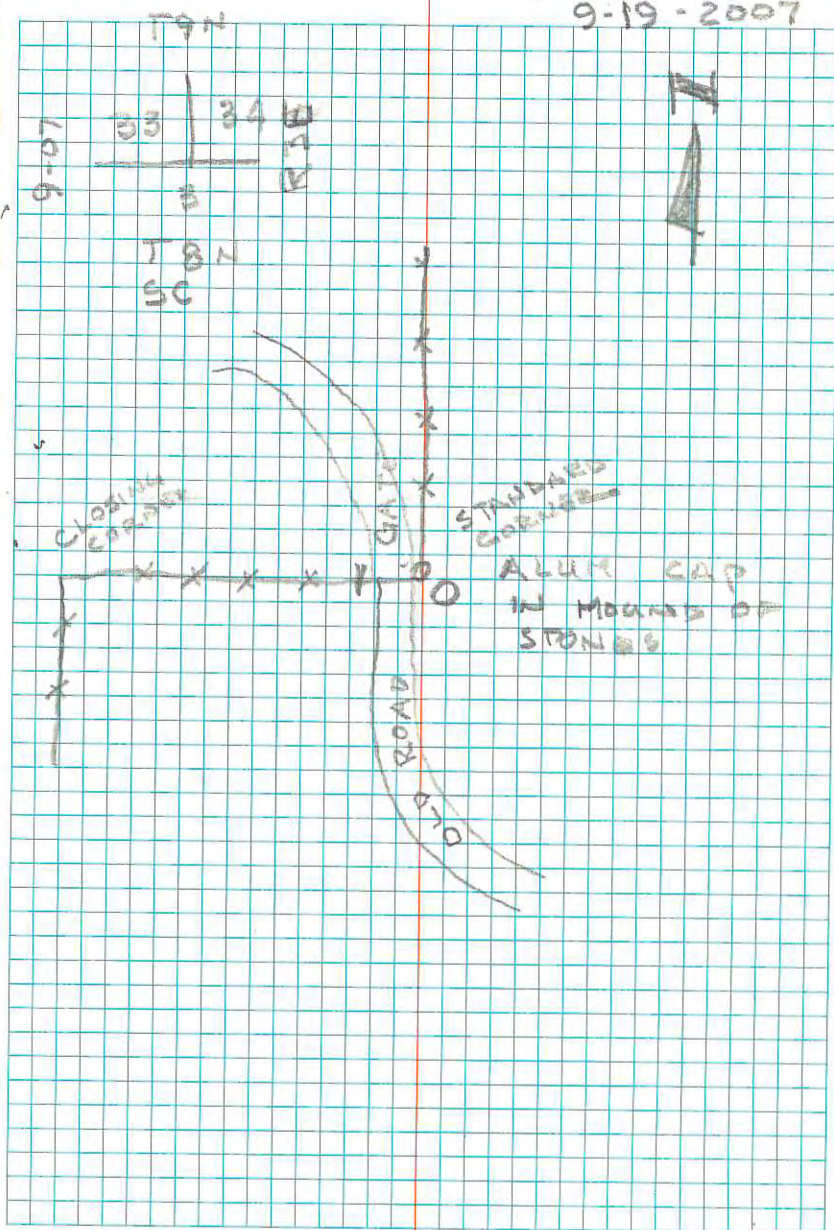
SET AN ALUM CAP ON A 30" ALUM PIPE IN A MOUND OF STONES ALONG SIDE OF THE POST. CEMENTED STONES

NO REC. POINTS WERE SET AT THIS TIME.

ORIGINAL NOTE CALL FOR A LIMESTONE 26X14X7 INCHES IN A MOUND OF STONES
STONE WAS SET OCT. 11, 1877

#434

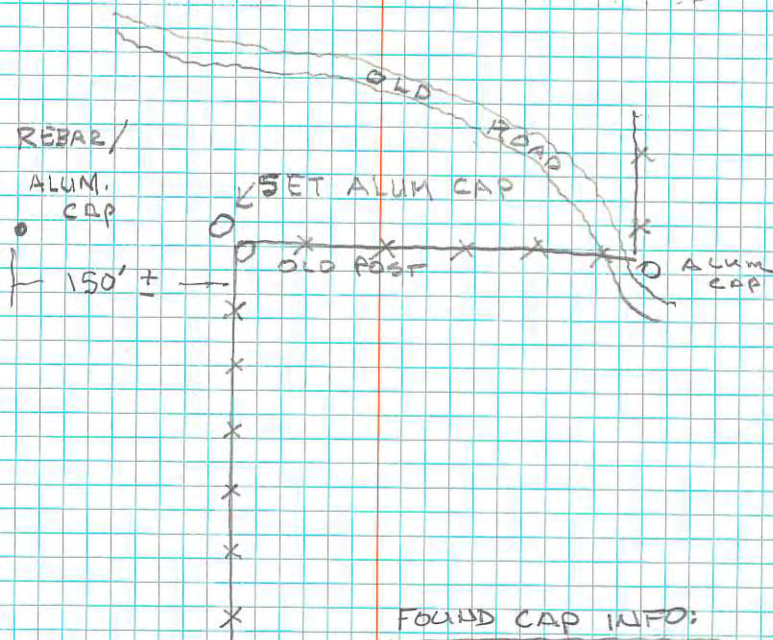
9-19-2007



T9N #0224 9-20-2007

33
4 | 3
CC
T8N

REBAR



FOUND CAP INFO:

COLORADO INTERSTATE
GAS RUBY PIPELINE

10 04 01

I SEARCHED THE AREA FOR THE DESCRIBED ORIGINAL STONE. THE AREA HAS ALOT OF PILES OF STONES BUT I COULD NOT FIND ANY MARKED ROCKS OR ANY THAT MATCHED THE RECORDED DIMENTIONS. I ACCEPT AN OLD POST AT THE INTERSECTION OF A SOUTH RUNNING FENCE AND AN EAST RUNNING FENCE I FOUND A 5/8" REBAR AND CAP MARKED AS SHOWN ON NEXT PAGE. THERE IS NO EVIDENCE TO INDICATE WHY THE POINT WAS SET. I ASSUME THAT IT IS A PROPORTIONED LINE FROM SOMEWHERE. I FELT THAT THE CORNER POST WAS THE BEST EVIDENCE FOR THIS CORNER

NO REFERENCE POINTS WERE SET AT THIS TIME.

7 NOV 2007

#0492

FOUND A STONE PLAINLY MARKER
WITH $\frac{1}{4}$ ~~AND~~ IT APPEARS TO

BE UNDISTURBED HAND HELD UTM

12 0450862W

4590693N

SET AN ALUM. CAP ON A 30"
ALUM PIPE 15" INTO THE GROUND
PLACED A MOUND OF STONES AROUND
THE CAP. SET THE ORIGINAL STONE
IN THE MOUND WITH THE $\frac{1}{4}$ FACING
NORTH.

SET THE CAP IN ORIGINAL STONE'S
LOCATION.

T9N

34

R3E

9 NOV 2007

FOUND A STONE MARKED WITH
A $\frac{1}{4}$ ON THE NORTH FACE. THE
STONE WAS UNDISTURBED.

SET AN ALUM CAP ~~30"~~ ON A
30" PIPE 18" IN THE GROUND.
CEMENTED A MOUND OF STONES
AROUND IT. PLACED THE ORIGINAL
STONE ON NORTH SIDE OF MOUND
FACING NORTH

THERE WAS NO MOUND OF
STONES AROUND THE MARKED
STONE.

CAP WAS SET AT THE
ORIGINAL STONE'S LOCATION.

T9N
33
 $\frac{1}{4}$ ———●—————
R3E

AIRPORT GATE

3/16/07 4679

CB 14L - A2

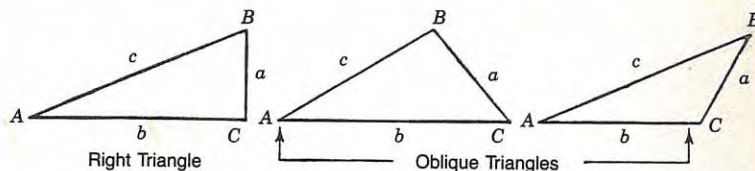
DBEA 2120
NGK

John White 10:30

FRIDAY

21 SEPT

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

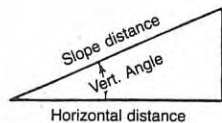
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	Formulas
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	Formulas
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2} A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2} B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft.
Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: - the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.