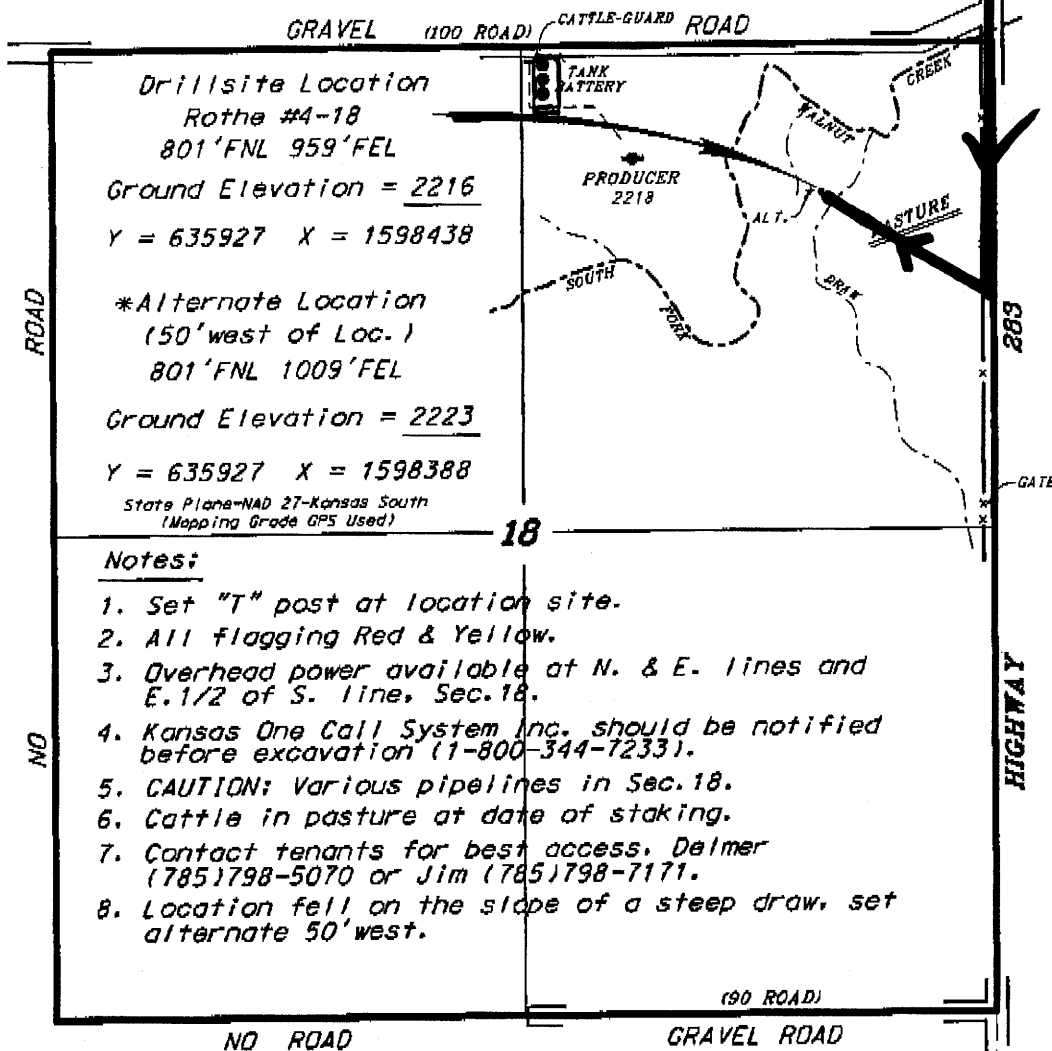


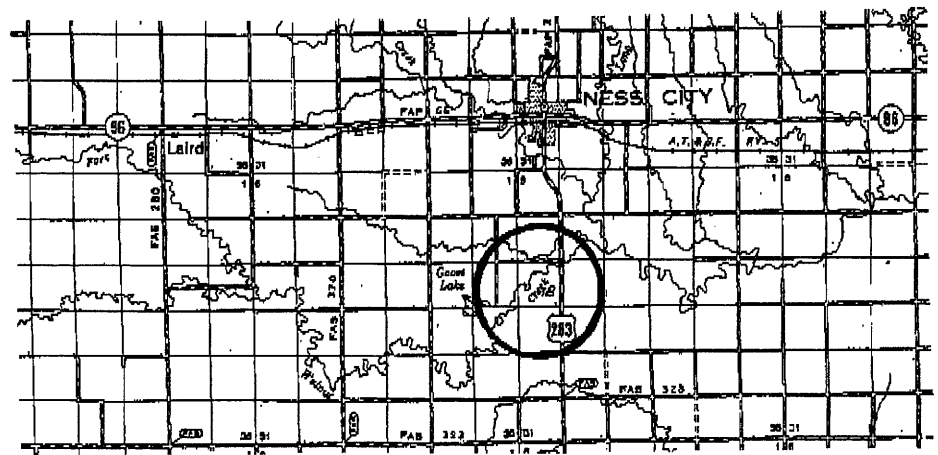
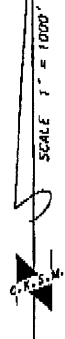
**GRAND MESA OPERATING COMPANY
ROTHE LEASE
NE.1/4, SECTION 18, T19S, R23W
NESS COUNTY, KANSAS**



Notes:

1. Set "T" post at location site.
2. All flagging Red & Yellow.
3. Overhead power available at N. & E. lines and E.1/2 of S. line, Sec.18.
4. Kansas One Call System Inc. should be notified before excavation (1-800-344-7233).
5. CAUTION: Various pipelines in Sec.18.
6. Cattle in pasture at date of staking.
7. Contact tenants for best access, Delmer (785)798-5070 or Jim (785)798-7171.
8. Location fell on the slope of a steep draw, set alternate 50'west.

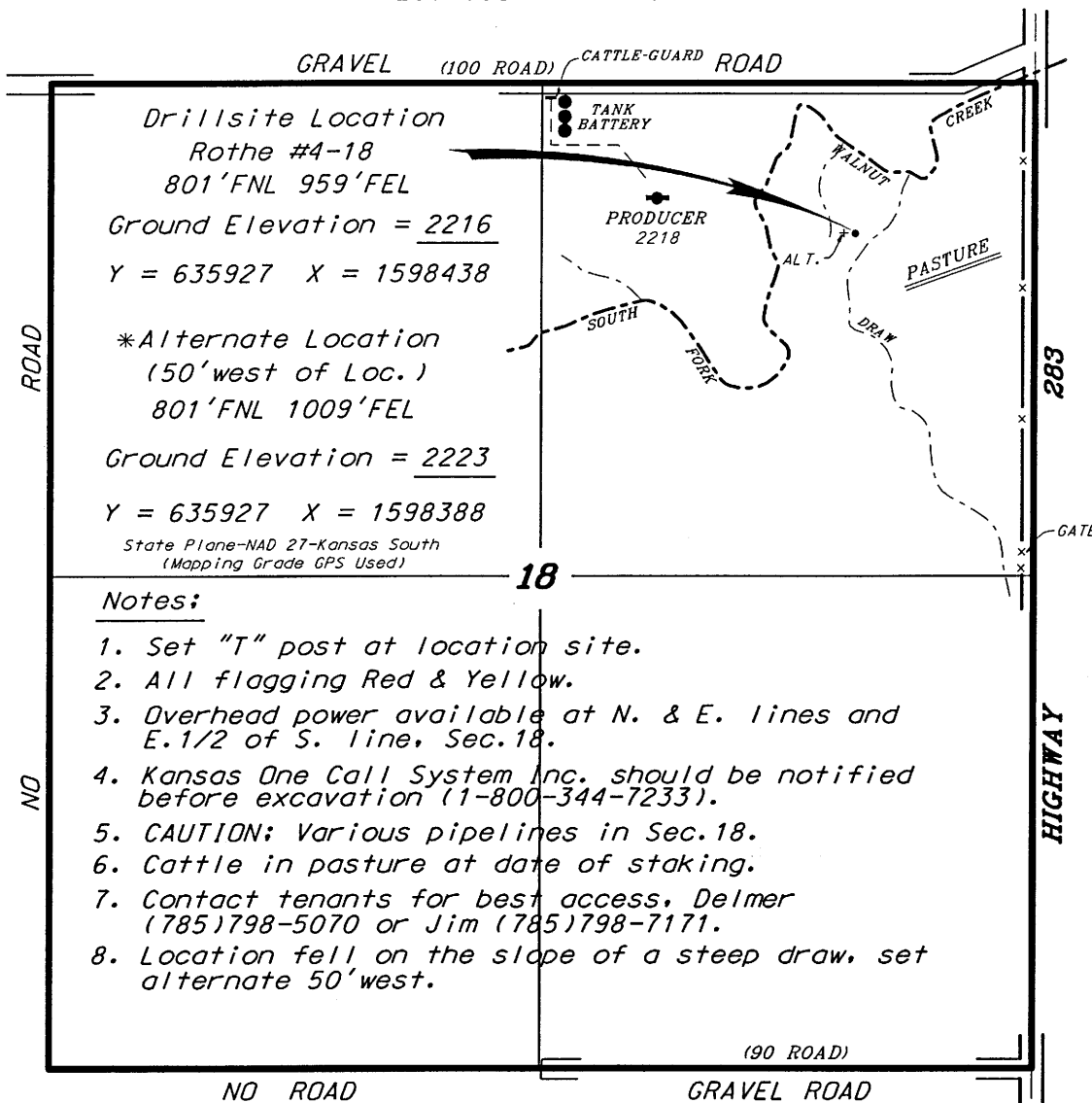
*Ingress and egress to location as shown on this plot is for usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.



* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.
 * Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise 3600 ft. lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plot and all other parties relying thereon come to this Central Kansas Oilfield Services, Inc. The operator and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.
 * Elevations derived from National Geodetic Vertical Datum.

Date July 9, 2010

GRAND MESA OPERATING COMPANY
 ROTHE LEASE
 NE.1/4, SECTION 18, T19S, R23W
 NESS COUNTY, KANSAS



Drillsite Location
 Rothe #4-18
 801'FNL 959'FEL
 Ground Elevation = 2216
 Y = 635927 X = 1598438

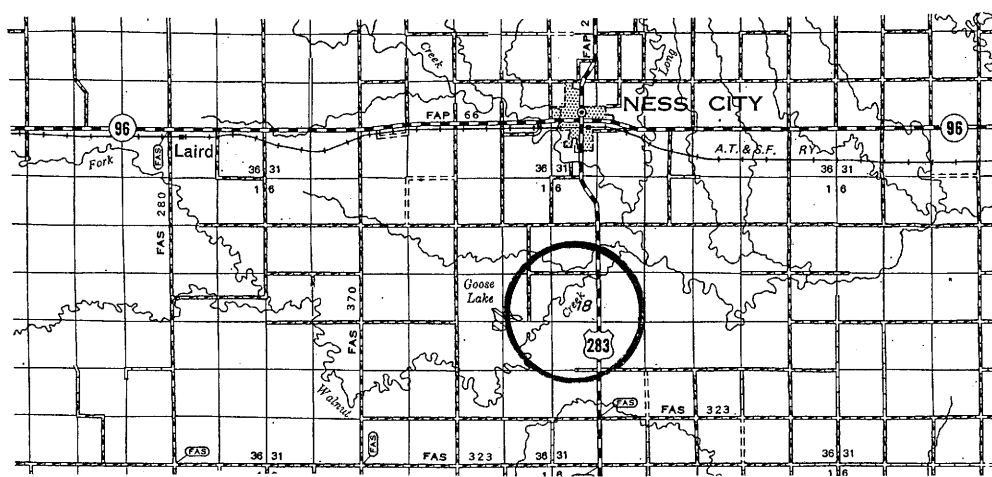
*Alternate Location
 (50' west of Loc.)
 801'FNL 1009'FEL
 Ground Elevation = 2223
 Y = 635927 X = 1598388

State Plane-NAD 27-Kansas South
 (Mapping Grade GPS Used)

Notes:

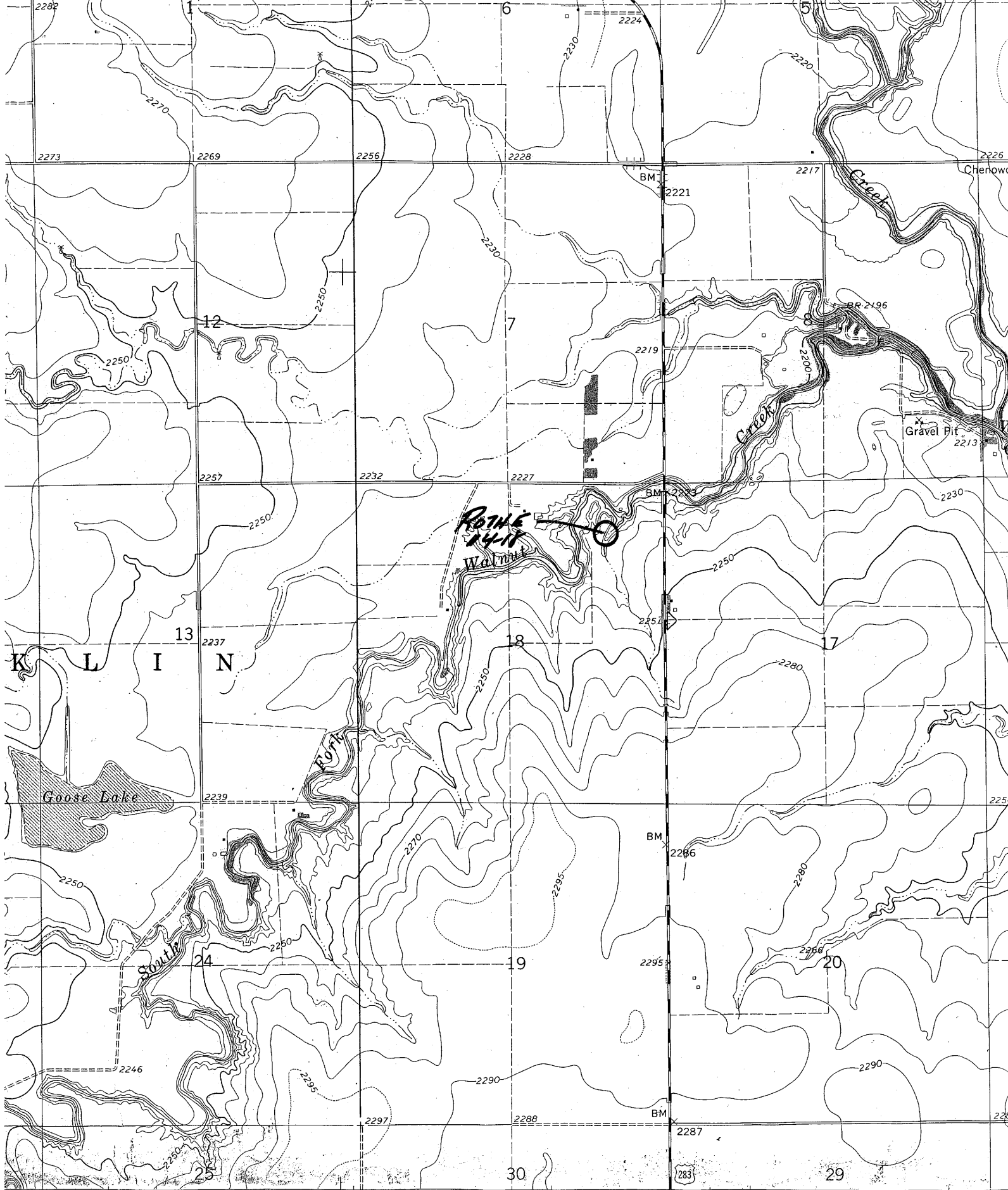
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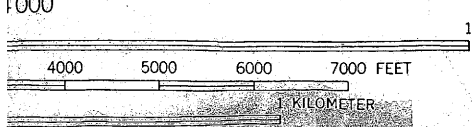


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 *Elevations derived from National Geodetic Vertical Datum.

Date July 9, 2010



1000
 419 R. 24 W. 55' 420 R. 23 W. 421 000m.E.
 INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1967
 JETMORE 20 MI.
 DODGE CITY 48 MI.



ROAD CLASSIFICATION
 Medium-duty ———— Light-duty - - - - -
 Unimproved dirt = = = = =

**Rothe #4-18
Sec. 18-19S-23W
Ness County, Kansas**

**Surface owners:
(con't) Nyla Ideker
P O Box 2094
Branson West, MO 65737**

**Twyla Matthews
5131 SW Surf Scooter Street
Lee's Summit, MO 64082**

**Davy E. Rothe
709 W. 36th Ave.
Hutchinson, KS 67502**

Grand Mesa Operating Company notified the above landowners and mailed copies of the Intent to Drill to same on July 19, 2010.

Thank you.