

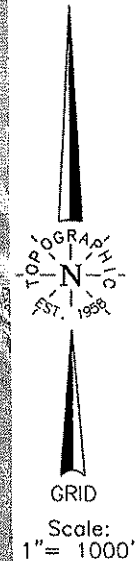
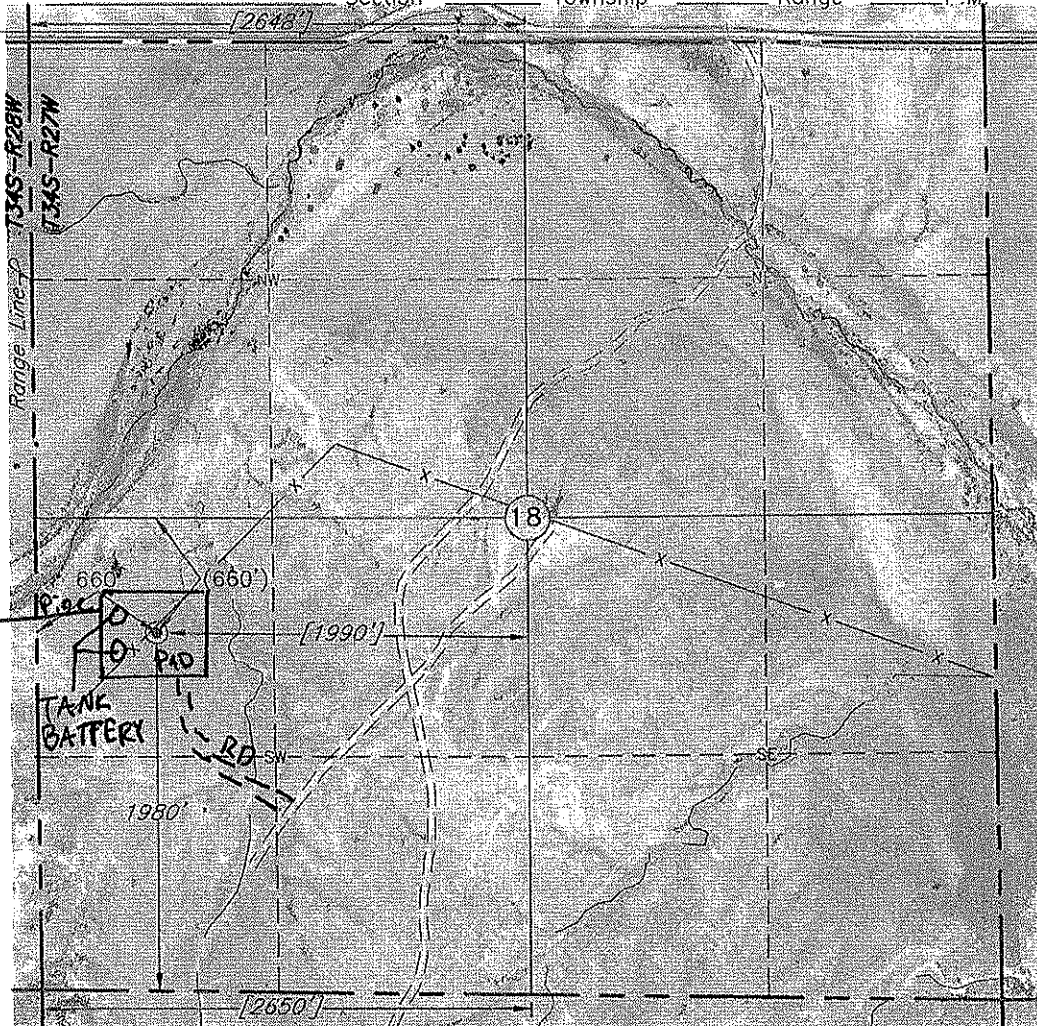
TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. LS-99, Exp. Dec 31, 2010

MEADE

County, Kansas

1980' FSL-660' FWL Section 18 Township 34S Range 27W P.M.



This location has been very carefully staked on the ground according to the best official survey records, maps, and photographs available to us, but its accuracy is not guaranteed. Review this plat and notify us immediately of any possible discrepancy.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, and have not been measured.

Operator: APACHE CORPORATION
 Lease Name: HAGER

Well No.: 1-18 **ELEVATION:**
2298' Gr. at Stake

Topography & Vegetation Loc. fell in sloped grass pasture, ±20' S of NE-SW fence

Good Drill Site? Yes Reference Stakes or Alternate Location
 Stakes Set None

Best Accessibility to Location From East
 Distance & Direction From Meade, KS., go ±13 miles South, go 2 miles East, then 1 mile South thru Sec. to the SW Cor. of Sec. 18-T34S-R27W

(The following information was gathered using a GPS receiver Accuracy ±2-3 Meters.)

GPS
 DATUM: NAD-27
 LAT: 37°05'14.8"N
 LONG: 100°18'17.6"W
 STATE PLANE
 COORDINATES:
 ZONE: KS-SOUTH
 X: 1473515
 Y: 158312

Date of Drawing: Jul. 21, 2010
 Invoice # 157668 Date Staked: Jul. 19, 2010 LC

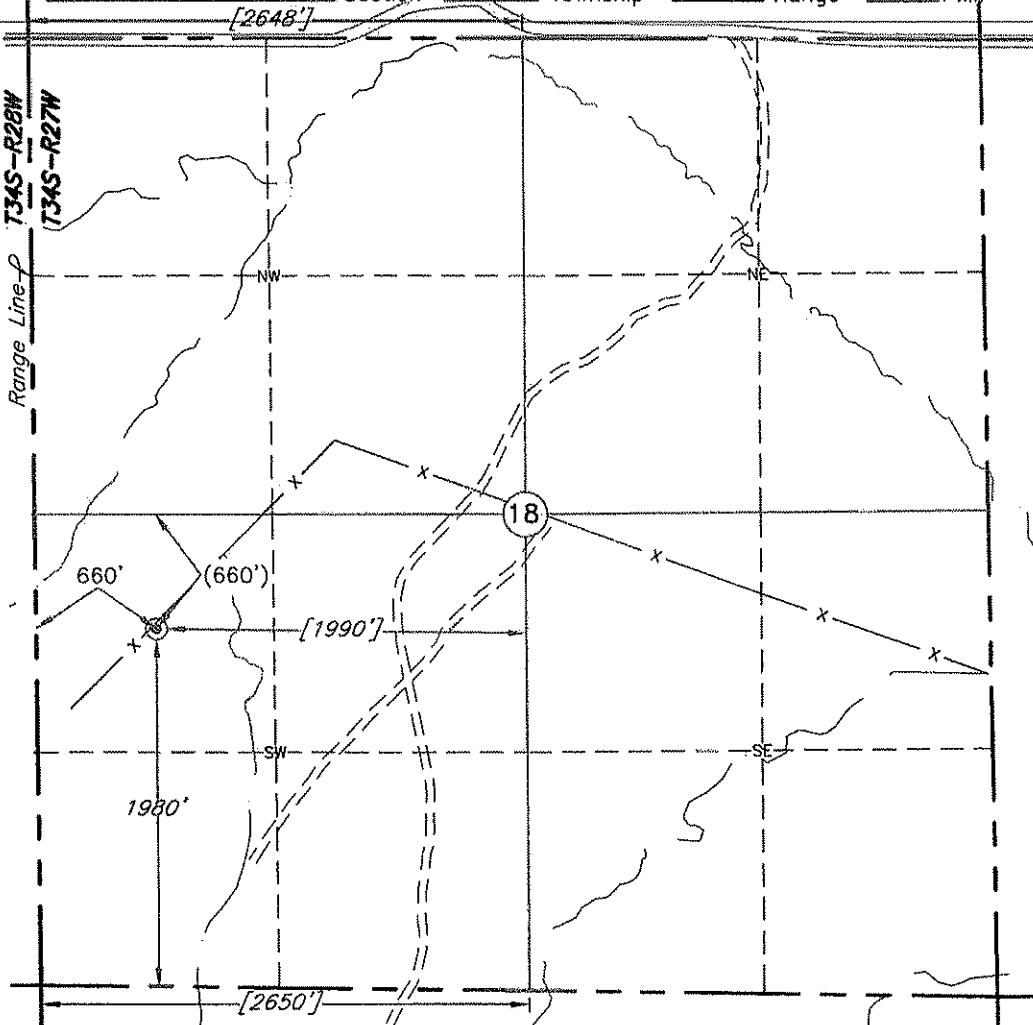
CERTIFICATE:
 I, T. Wayne Fisch a Registered Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.
 Kansas Reg. No. 1213



TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. LS-99, Exp. Dec 31, 2010

MEADE County, Kansas
 1980' FSL-660' FWL Section 18 Township 34S Range 27W P.M.



This location has been very carefully staked on the ground according to the best official survey records, maps, and photographs available to us, but its accuracy is not guaranteed. Review this plat and notify us immediately of any possible discrepancy.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, and have not been measured.

Operator: APACHE CORPORATION
 Lease Name: HAGER

ELEVATION:
 2298' Gr. at Stake

Well No.: 1-18

Topography & Vegetation Loc. fell in sloped grass pasture, ±20' S of NE-SW fence

Good Drill Site? Yes Reference Stakes or Alternate Location
 Stakes Set None

Best Accessibility to Location From East
 Distance & Direction
 from Hwy Jct or Town From Meade, KS., go ±13 miles South, go 2 miles East, then 1 mile South thru Sec to the SW Cor. of Sec. 18-T34S-R27W

(The following information was gathered using a GPS receiver Accuracy ±2-3 Meters.)

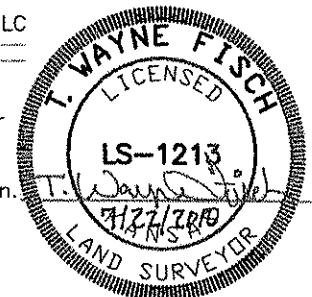
GPS
 DATUM: NAD-27
 LAT: 37°05'14.8"N
 LONG: 100°18'17.6"W
 STATE PLANE
 COORDINATES:
 ZONE: KS-SOUTH
 X: 1473515
 Y: 158312

Date of Drawing: Jul. 21, 2010
 Invoice # 157668 Date Staked: Jul. 19, 2010 LC

CERTIFICATE:

I, T. Wayne Fisch a Registered Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

Kansas Reg. No. 1213



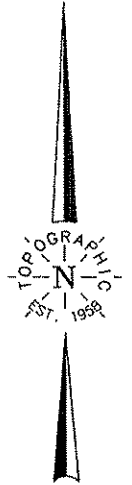
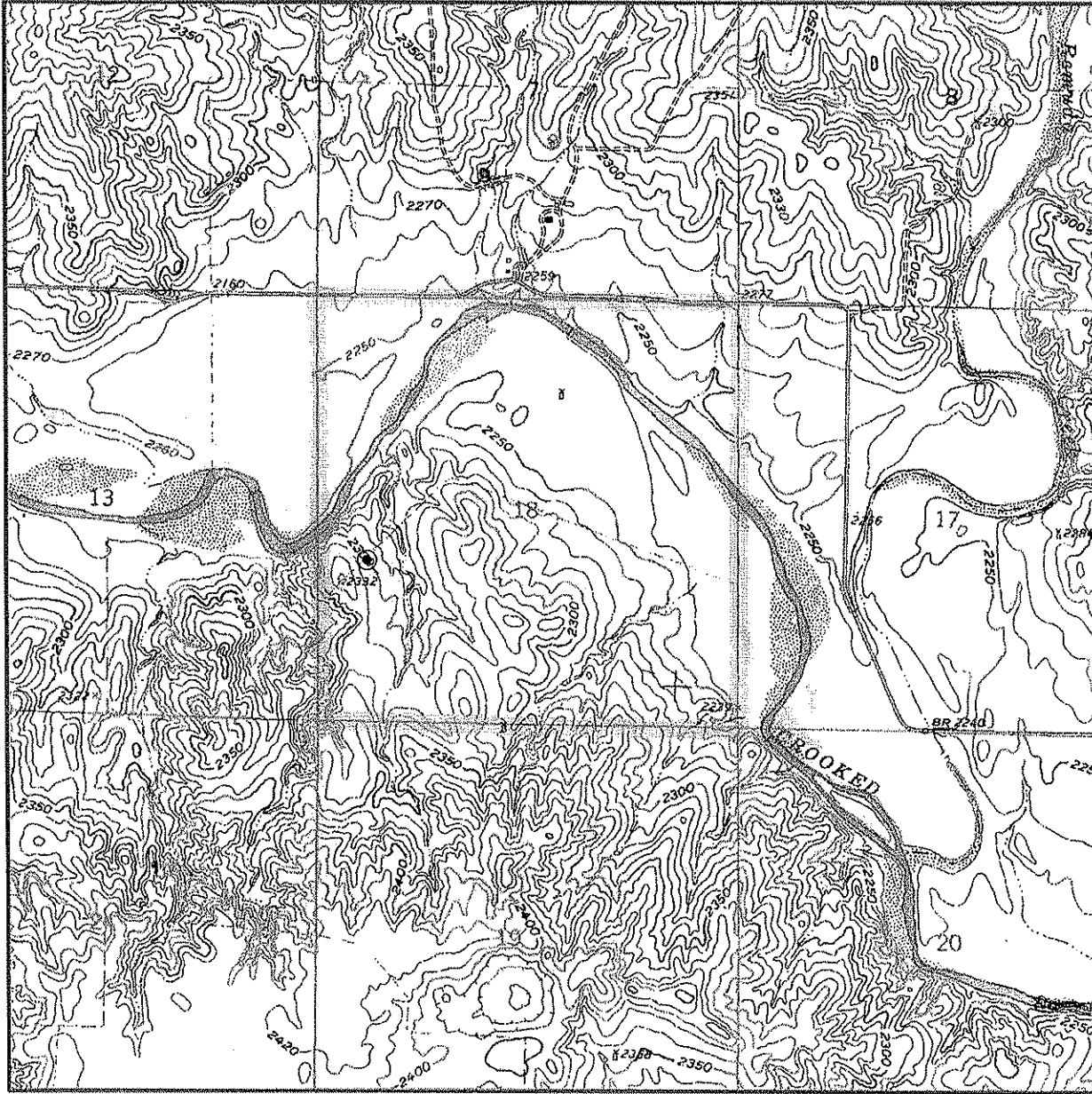
TOPOGRAPHIC LAND SURVEYORS

Surveying and Mapping for the Energy Industry

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



Sec. 18 Twp. 34S Rng. 27W

County MEADE State KS

Operator APACHE CORPORATION

Description 1980'FSL-660'FWL

Lease HAGER 1-18

Elevation 2298' Gr. at Stake

U.S.G.S. Topographic
Quadrangle Map IRISH FLATS SE, KS

Above Background Data from
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 10'

This location has been very carefully staked on the ground according to the best official survey records, maps and photographs available to us, but its accuracy is not guaranteed. When elevation is shown hereon it is the ground elevation of the location stake.
Review this plat and inform us immediately of any possible discrepancy.

TOPOGRAPHIC

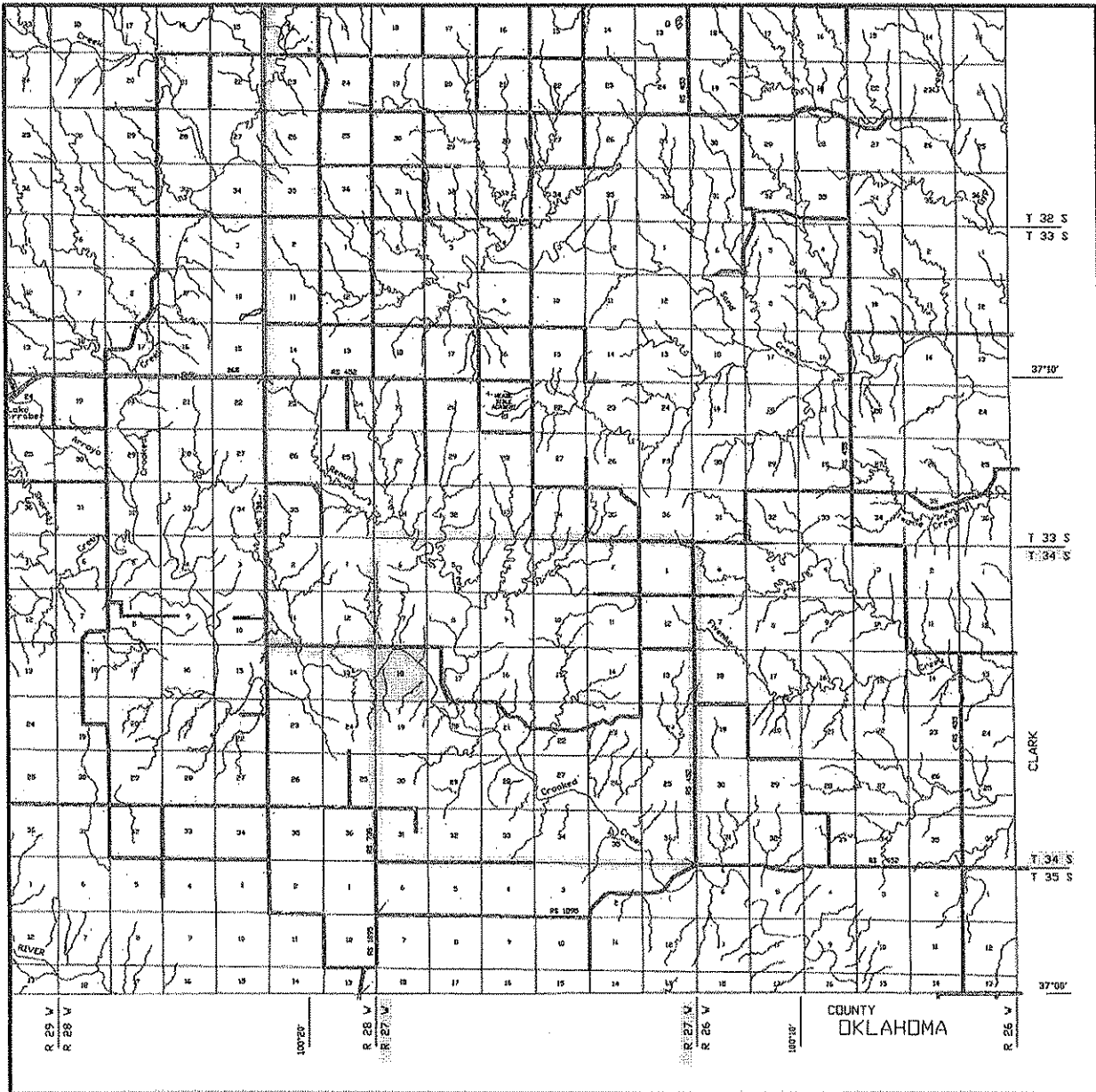
SURVEYING • MAPPING • GIS • GPS

Jul. 19, 2010

TOPOGRAPHIC LAND SURVEYORS

Surveying and Mapping for the Energy Industry
6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 18 Twp. 34S Rng. 27W

County MEADE State KS

Operator APACHE CORPORATION

TOPOGRAPHIC
SURVEYING • MAPPING • GIS • GPS