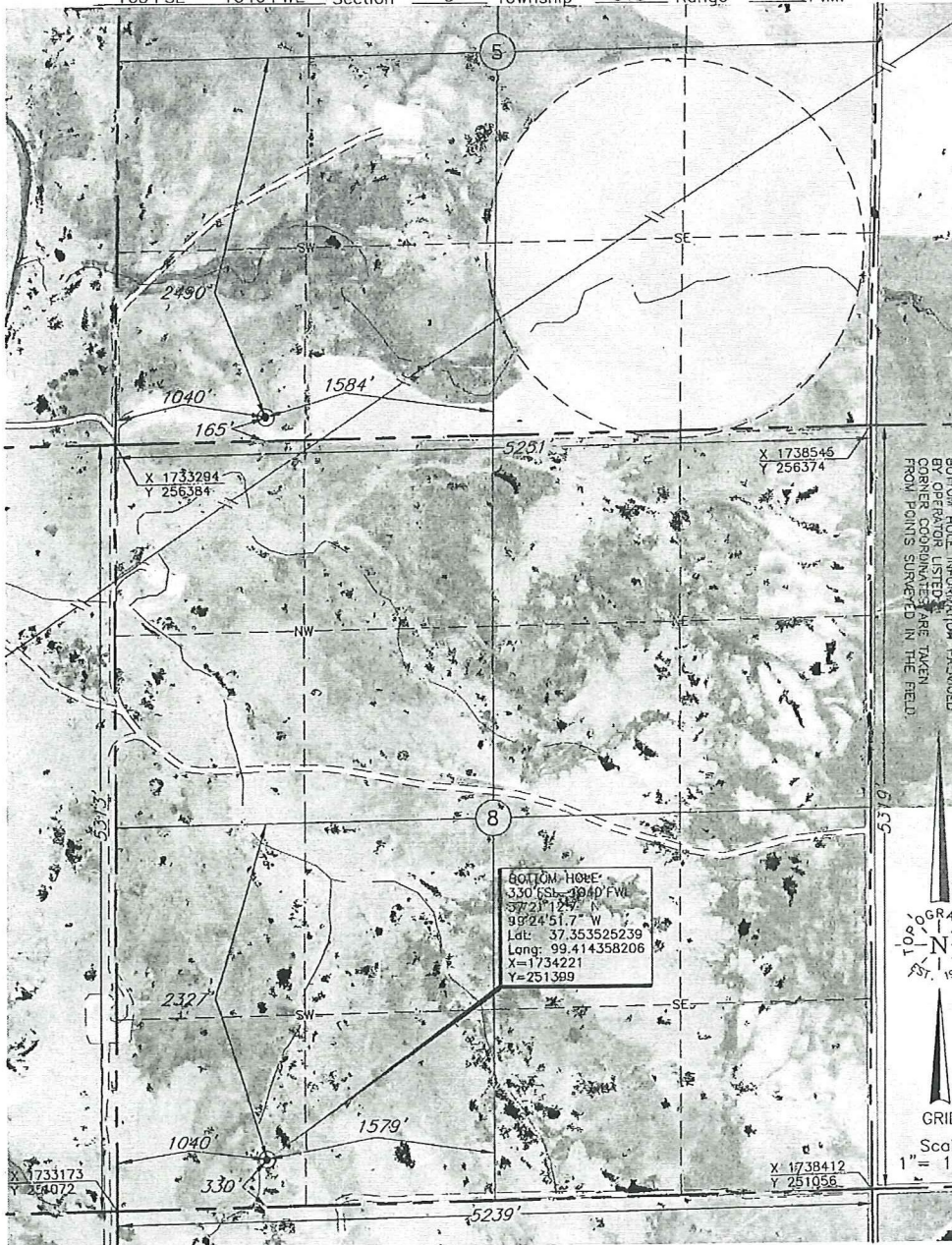


COMANCHE

County, Kansas

165° FSL — 1040° FWL Section 5 Township 31S Range 19W P.M.



BOTTOM HOLE INFORMATION PROVIDED  
 BY OPERATOR LISTED  
 CORNER COORDINATES ARE TAKEN  
 FROM POINTS SURVEYED IN THE FIELD



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 plot 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: SANDRIDGE ENERGY, INC.  
 Lease Name: PAULINE

Well No.: 1-8H

**ELEVATION:**  
 2111' Gr. at Stake

Topography & Vegetation Loc. fell in sloped pasture, 285' SE to NE-SW pipelines

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None  
 Best Accessibility to Location From East off lease road  
 Distance & Direction from Hwy Jct or Town From Jct. US Hwy. 183 and US Hwy. 160 East, go 5.0 mi. North, then 4.0 mi. West to the SE Cor. of Sec. 8-T31S-R19W, then 0.5 mi. North, then 1.0 mi. West and 0.5 mi. North on lease road to the SW Cor. of Sec. 5-T31S-R19W

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

GPS  
 DATUM: NAD-27  
 LAT: 37°22'03.6"N  
 LONG: 99°24'50.8"W  
 LAT: 37.367666445  
 LONG: 99.414125916  
 STATE PLANE COORDINATES:  
 ZONE: KS SOUTH  
 X: 1734339  
 Y: 256547

Date of Drawing: Oct. 17, 2011

Invoice # 174148 Date Staked: Oct. 12, 2011 AC

**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

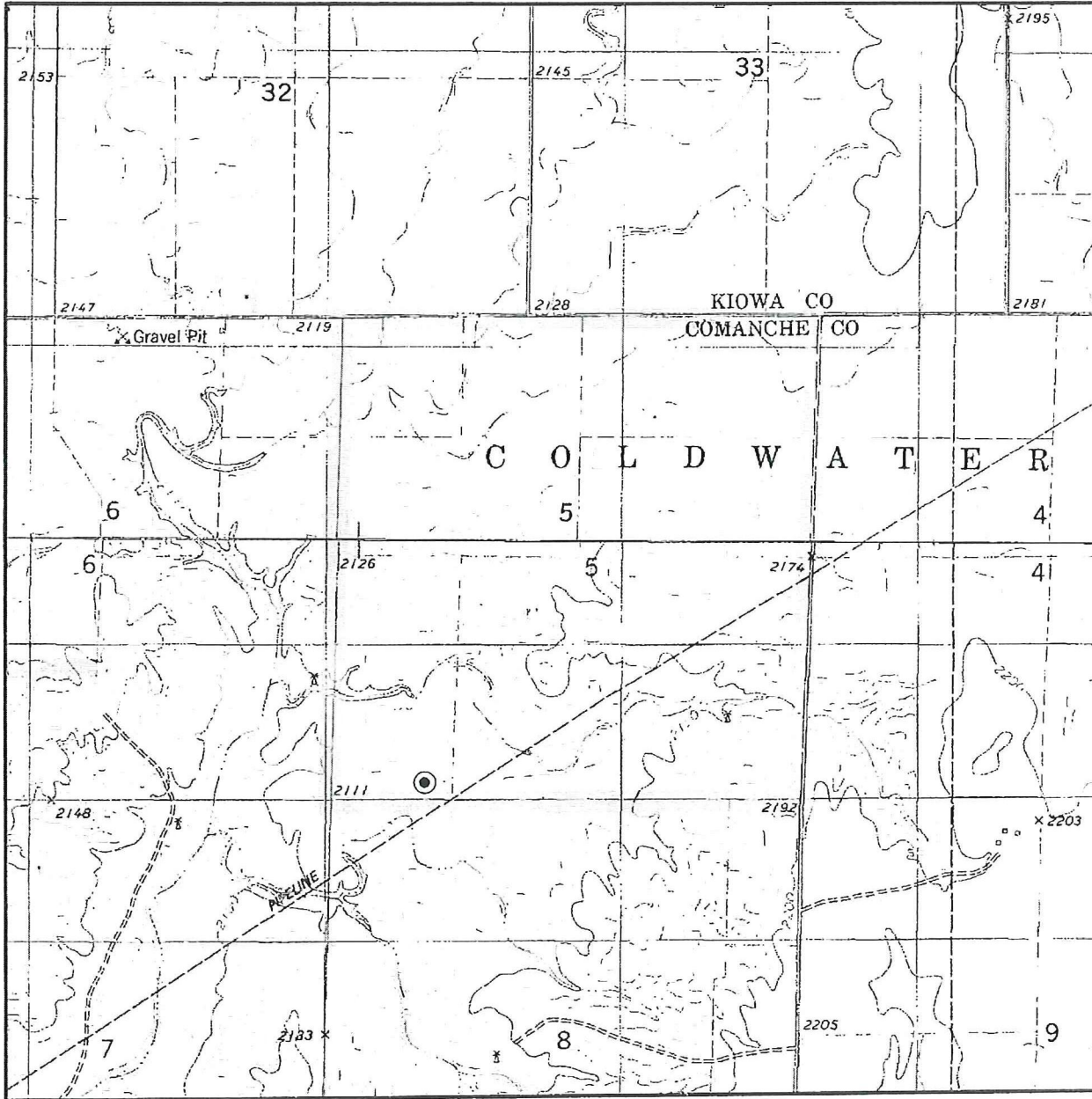




# TOPOGRAPHIC LAND SURVEYORS

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. 5 Twp. 31S Rng. 19W

County COMANCHE State KS

Operator SANDRIDGE ENERGY, INC.

Description 165'FSL - 1040'FWL

Lease PAULINE 1-8H

Elevation 2111' Gr. at Stake

U.S.G.S. Topographic  
 Quadrangle Map EAST KIOWA CREEK SOUTH, KS

Above Background Data from  
 U.S.G.S. Topographic Map  
 Scale: 1"=2000'

Contour Interval 10'

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 Review this plat and inform us immediately of any possible discrepancy.

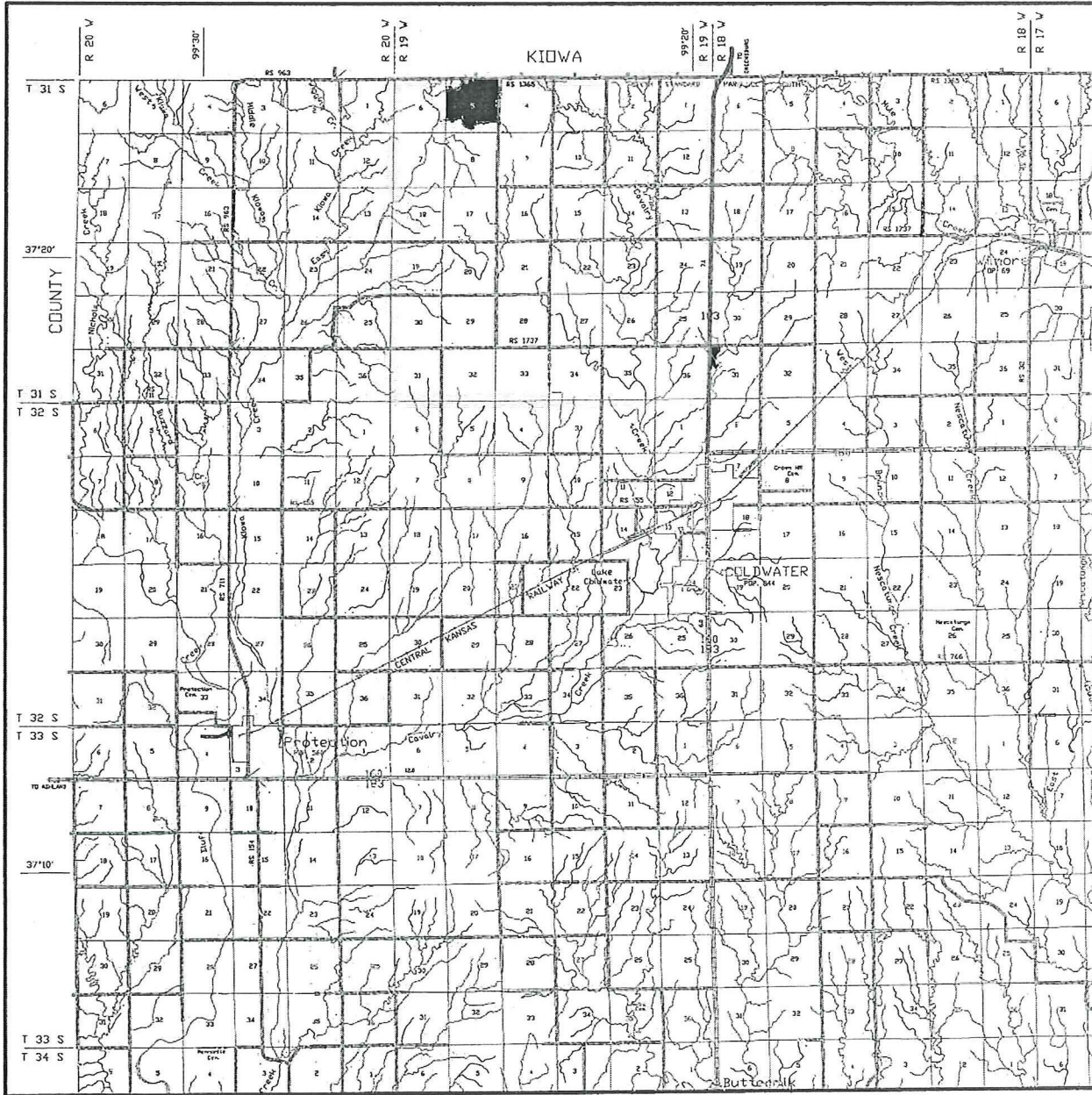
**TOPOGRAPHIC**  
 SURVEYING • MAPPING • GIS • GPS

Oct. 12, 2011

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## VICINITY MAP



Scale: 1" = 3 Miles

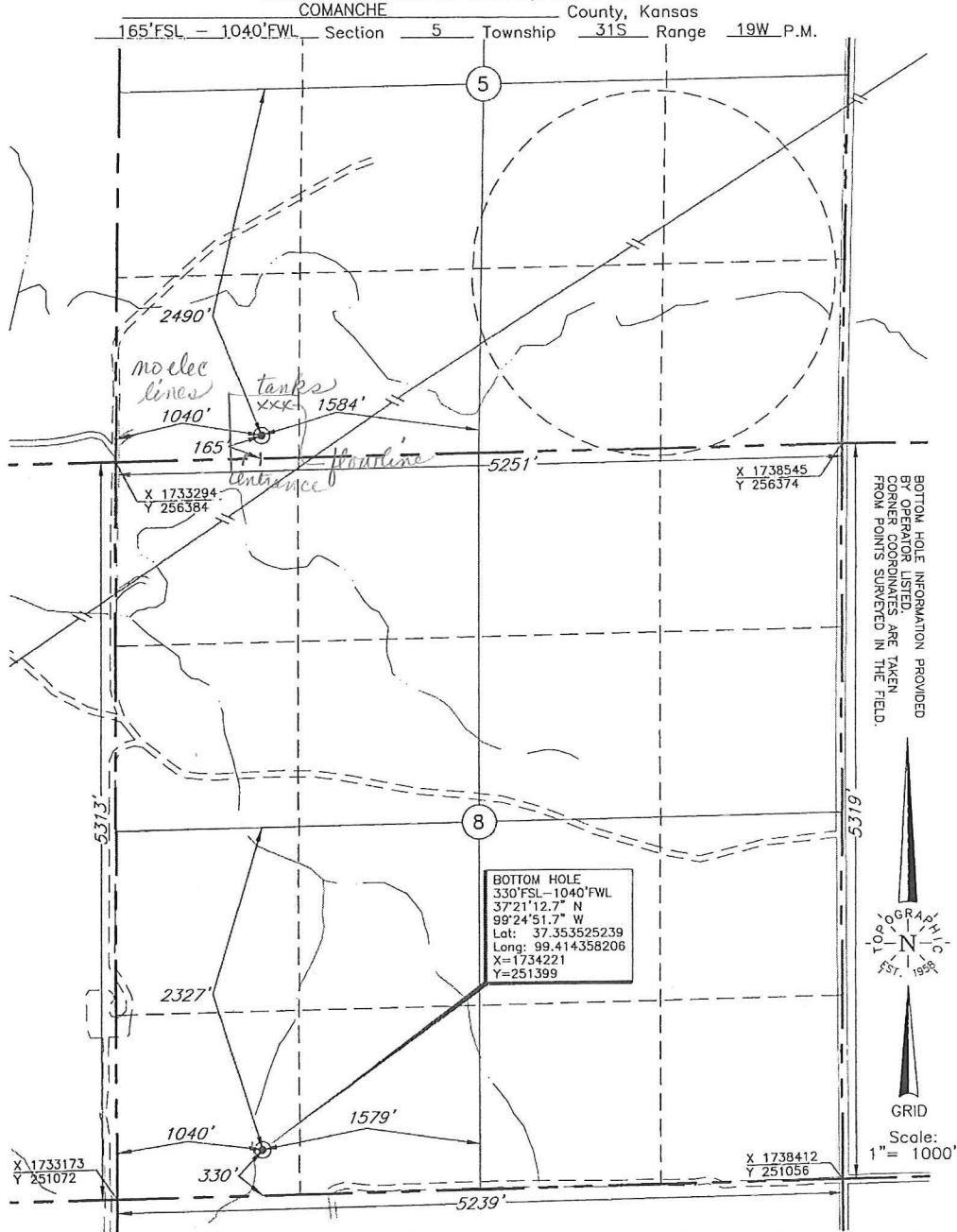
Sec. 5 Twp. 31S Rng. 19W

County COMANCHE State KS

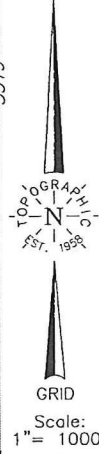
Operator SANDRIDGE ENERGY, INC.

**TOPOGRAPHIC**  
SURVEYING • MAPPING • GIS • GPS





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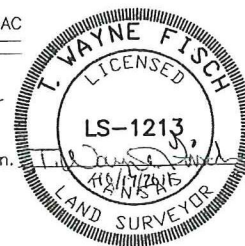
Date of Drawing: Oct. 17, 2011

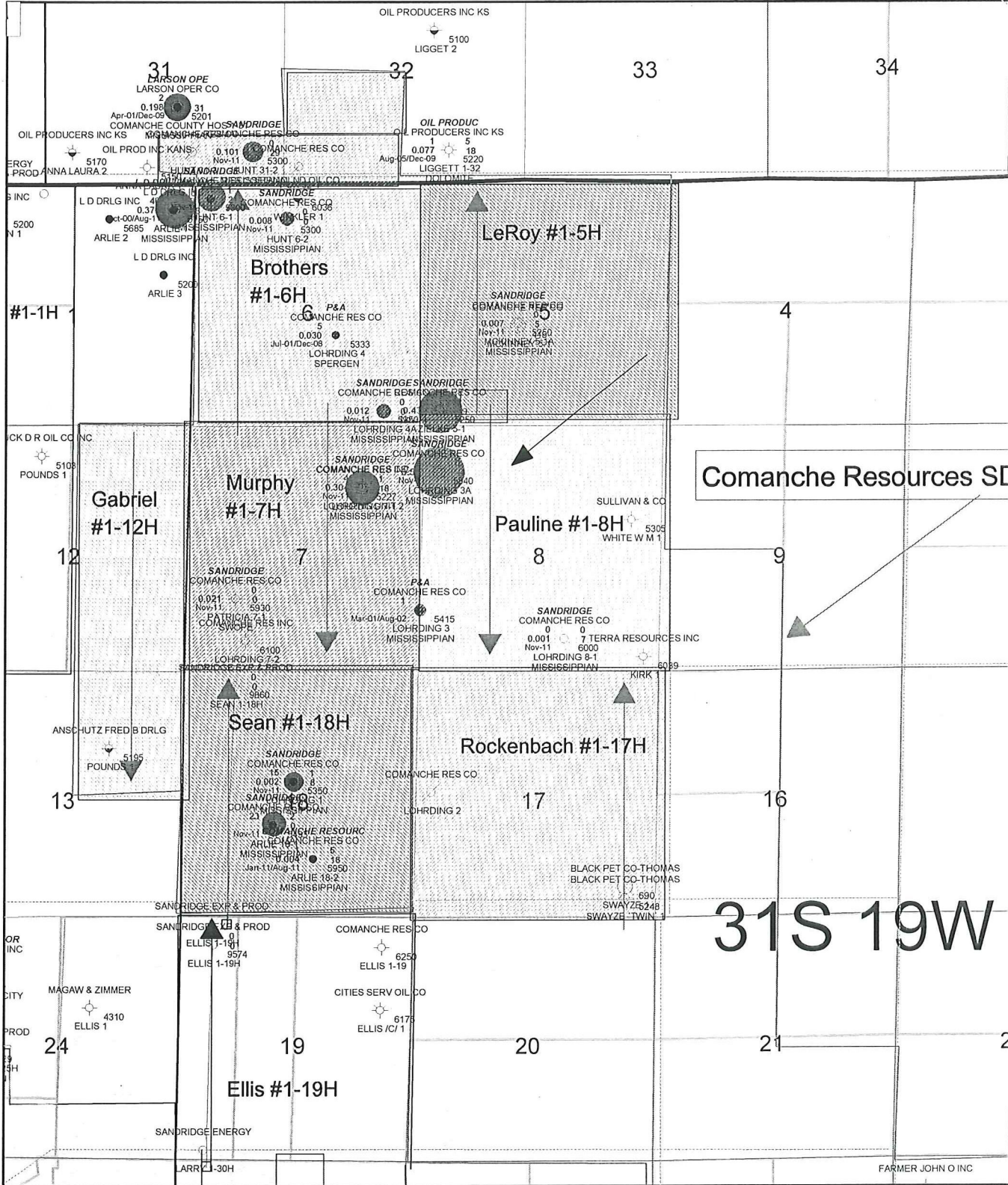
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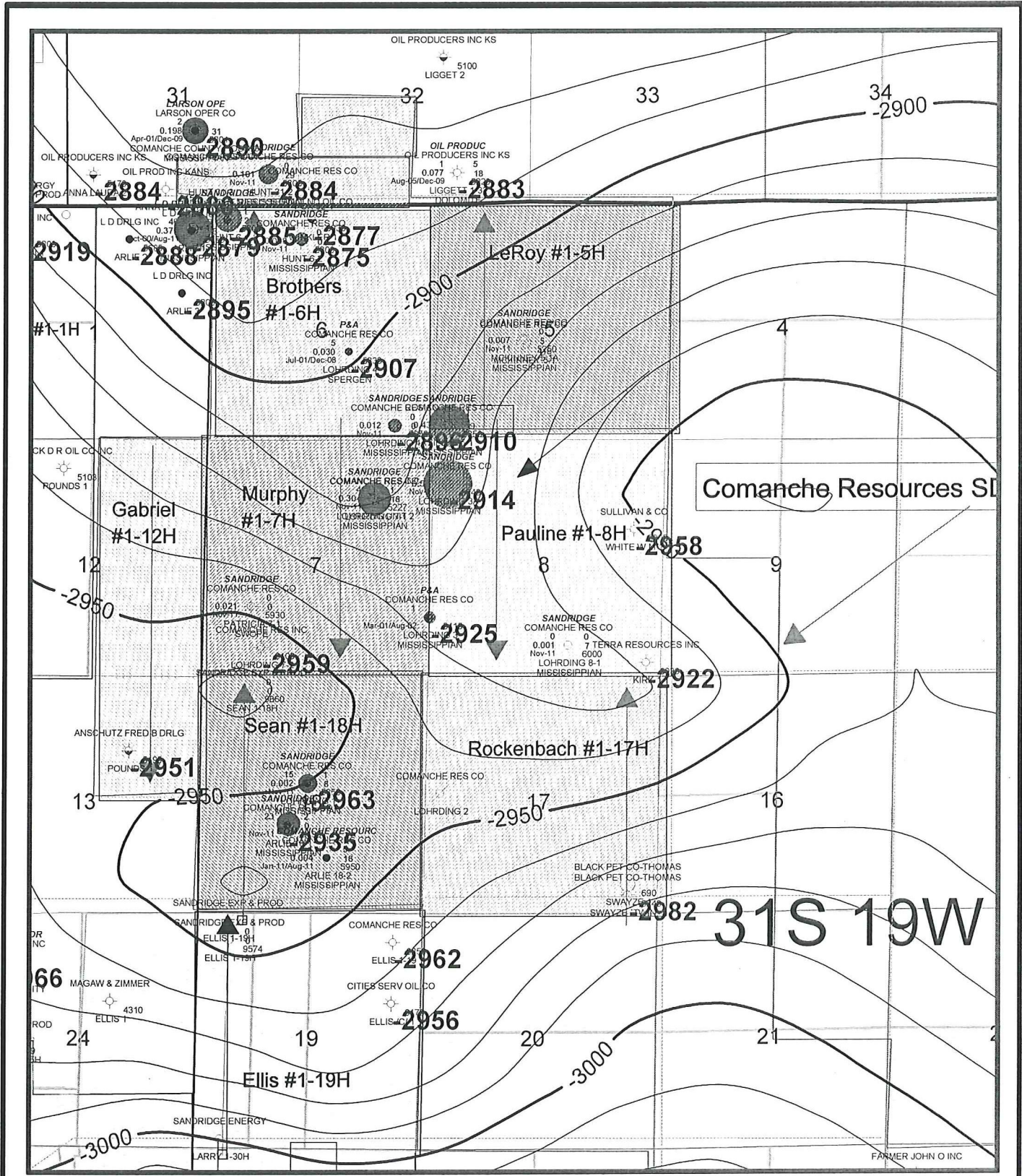
Comanche Resources SD

31S 19W

- Mississippi Gas Production
- Mississippi Oil Production

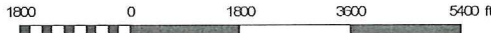
  
**Pauline #1-8H**  
 8-T31S-R19W  
 Comanche County, KS  
 Location/Production Map  
Pauline #1-8H Loc-Prod Map 12.22.11 KJ.gmp  
 Date: 22 December, 2011 | Geologist: K Gentry





Comanche Resources S

31S 19W



- Mississippi Gas Production
- Mississippi Oil Production

**SANDRIDGE**  
THE POWER OF OIL

**Pauline #1-8H**  
8-T31S-R19W  
Comanche County, KS

Structure Map - T. Mississippi Unconformity  
CI = 10'

Pauline #1-8H Structure Map Uncorr 12-22-11 KG amp  
Date: 22 December, 2011 | Geologist: K. Gentry