

DEPOSITIONAL SETTING, FACIES, AND PETROLEUM  
GEOLOGY OF CABANISS GROUP IN PORTIONS  
OF WASHITA, CUSTER, BLAINE, CADDO,  
CANADIAN, AND GRADY  
COUNTIES, OK

By

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## TABLE OF CONTENTS

Chapter	Page
I. INTRODUCTION	
Objectives .....	1
Methodology .....	4
Literature Review.....	5
II. STRUCTURAL FRAMEWORK	
Tectonic Setting .....	6
Local Structural Geology .....	8
III. STRATIGRAPHIC FRAMEWORK	
Introduction.....	11
Description of Stratigraphic Units .....	13
IV. DEPOSITIONAL SETTING	
Introduction.....	16
Skinner Genetic Increment .....	17
Prue Genetic Increment.....	19
V. DEPOSITIONAL FACIES	
Introduction.....	21
Electrofacies.....	24
Core Analysis.....	27
Sandstone Trends and Distribution.....	34
Lower Skinner Sandstone .....	34
Incised-Valley Facies.....	34
Distributary Channel Facies.....	37
Delta Front Facies .....	38
Marginal Marine Facies .....	39

Prodelta Facies .....	39
Upper Skinner Sandstone.....	41
Incised-Valley Facies.....	41
Distributary Channel Facies.....	44
Delta Front Facies .....	44
Marginal Marine Facies .....	45
Prue Sandstone.....	46
Distributary Channel Facies.....	46
Delta Front Facies .....	49
Marginal Marine Facies .....	49
Prodelta Facies .....	49
VI. PETROLEUM GEOLOGY .....	51
Lower Skinner Sandstone .....	51
Upper Skinner Sandstone.....	53
Prue Sandstone.....	54
VII. CONCLUSIONS .....	55
BIBLIOGRAPHY .....	57
APPENDIX A – Detailed Core Description.....	60
APPENDIX B – Data Spreadsheets.....	65
APPENDIX C – Plates.....	133

## LIST OF FIGURES

Figure	Page
1. Map showing location of study area .....	2
2. Chart showing stratigraphic nomenclature for Cabaniss Group .....	3
3. Map showing tectonic provinces along with location of study area .....	7
4. Structure contour map on top of the Verdigris Limestone .....	9
5. Stratigraphic cross-section showing key marker beds used for correlation in the study area .....	12
6. Skinner sandstone genetic increment of strata map .....	18
7. Prue sandstone genetic increment of strata map .....	20
8. Model of subenvironments within a lower deltaic plain system along with cross-section of a delta front environment .....	23
9. Chart showing electrofacies found in the study area that were used to interpret depositional environments .....	25
10. Fining-upward channel fill Upper Skinner sandstone from the Texaco Co., Payne No. 17-1 .....	28
11. Shale with interbedded very fine-grained sandstone .....	30
12. Very fine-grained sandstone with thin clay laminae .....	31
13. Flowage feature with trace amounts of carbonaceous debris .....	32
14. Basal rip-up clast conglomerate that grades upward into fine grained, horizontally bedded sandstone .....	33
15. Distribution of electrofacies within the Lower Skinner Sandstone interval. ....	35

16. Stratigraphic cross-section displaying spatial relationships for environments of the Lower Skinner sandstone .....	36
17. Distribution maps of Upper and Lower Skinner Limestones and Upper Skinner calcareous sandstone.....	40
18. Distribution of electrofacies within the Upper Skinner Sandstone interval. ....	42
19. Stratigraphic cross-section showing spatial relationships for environments of the Upper Skinner sandstone .....	43
20. Depositional environments for the Prue Sandstone that were interpreted from electrofacies distributions.....	47
21. Stratigraphic cross-section showing spatial relationships for environments of the Prue sandstone .....	48
22. Map showing names and locations of oil and gas fields producing from the Skinner and Prue sandstones .....	52
23. Wireline log for the Texaco Co., Payne No. 17-1 .....	61
24. Detailed petrolog for the Texaco Co., Payne No. 17-1.....	62

## LIST OF PLATES

### Plate

- I. Structure contour map on top of the Verdigris Limestone ..... Appendix C
- II. Structure contour map on top of the Pink Limestone..... Appendix C
- III. Skinner genetic increment of strata map (Top of the Verdigris Limestone to the top of the Pink Limestone)..... Appendix C
- IV. Prue genetic increment of strata map (Top of the Excello “Hot” Shale to the top of the Verdigris Limestone) ..... Appendix C



## CHAPTER I

### INTRODUCTION

The area of investigation encompasses 40 townships in the east-central Anadarko Basin and includes T.10N. to T.14N. and R.7W. to R.14W. This area covers portions of Blaine, Custer, Washita, Caddo, Canadian, and Grady counties (Figure 1).

The “Upper Cherokee,” or Cabaniss Group, is a cyclic succession of shale, sandstones, thin limestones, and hot shales that are early to middle Desmoinesian (Pennsylvanian) in age. The Cabaniss Group is defined as the section between the base of the Oswego Limestone and the base of the Pink Limestone and includes three distinct sandstone-rich intervals that contain, in ascending order, the Lower Skinner Sandstone, Upper Skinner Sandstone, and Prue Sandstone (Figure 2). These sandstones are some of the most studied and prospected zones in the Anadarko Basin and shelf areas due to their hydrocarbon productivity.

#### Objectives

The primary objectives for this investigation were to:

1. Establish a correlation of the stratigraphic units that comprise the Upper Cherokee Group within the study area
2. Determine the depositional setting (i.e. shelf, slope, or basin)
3. Interpret depositional environments and establish distribution patterns for the Upper Cherokee/Cabaniss sandstones
4. Explain the petroleum geology of the hydrocarbon-bearing zones.

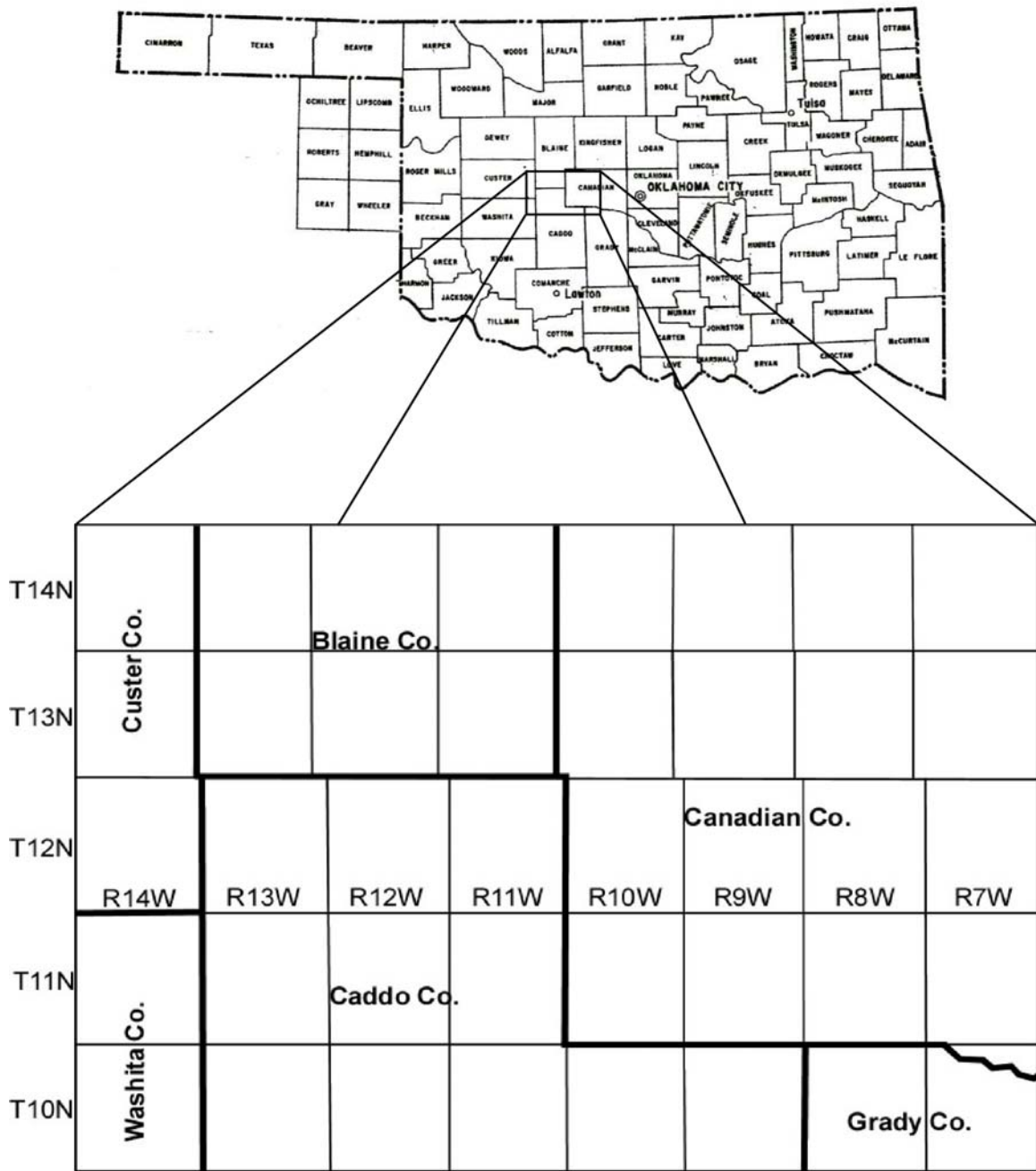


Figure 1. Location of study area.

SYSTEM	SERIES	GROUP	FORMATION	SURFACE NAMES (Members & Fms.)	PRIMARY SUBSURFACE NAMES (Study Area)	SECONDARY SUBSURFACE NAMES
P E N N S Y L V A N I A N	D E S M O I N E S I A N	MARMATON	FT. SCOTT	Ft. Scott Limestone	Oswego Limestone	Oswego Limestone
		CABANISS	SENORA	Lagonda Sandstone	Prue Sandstone	Squirrel, Gibson, Bixler, Perryman, 2nd & 3rd Deese,
				Verdigris Lime	Verdigris Lime	Ardmore Lime
				Oowala Sandstone	Upper Skinner Sandstone	Verdigris, Senora, Allen Sand, Cattleman Sand
				Chelsea Sandstone	Lower Skinner Sandstone	Hart Sand, 4th Deese Sand
				Tiawah Limestone	Pink Lime	Pink Lime, Lower Senora Lime

Figure 2. Stratigraphic nomenclature of the Cabaniss Group (after Andrews; et.al., 1996).

## Methodology

The primary source of data collected in this study was derived from the analysis of wireline log surveys of oil and gas wells drilled in the Anadarko basin. These logs were interpreted to determine depositional setting, distribution patterns, depositional environments, and petroleum geology for the Cabaniss sandstones. The methodology followed this general plan.

1. More than 2,200 well logs were examined and used as the primary source of data crucial for this investigation. Data could not be collected from every well indicated on maps due to the unavailability or poor quality of some well logs. However, due to the number of wells in the area, these constraints had little impact on the control, and confident interpretations were derived from the available data.

2. Cross-sections were constructed to establish an acceptable correlation of the stratigraphic units comprising the Upper Cherokee Group.

3. Two structure maps and two interval isopach maps were constructed to detect changes in thickness and structural attitude that could provide insight into the paleostructure, depositional setting, and sandstone distribution patterns in the Cabaniss Group.

4. One core that contained the Upper Skinner sandstone was analyzed. This core is from a well located in T.10N., R.5W., which is outside the study area. It was examined for sedimentary structures to provide information on depositional processes, and analyzed microscopically to determine detrital and authigenic composition.

5. Due to the absence of core within the study area, depositional environments were interpreted from core-correlated electrofacies established in this and previous

studies. Lithologies derived from well logs was interpreted from these studies and corroborated by the examination of lithologies in bit cuttings.

6. All data were integrated to develop a depositional model and explain the petroleum geology of hydrocarbon bearing zones.

#### Literature Review

To date, no detailed subsurface geologic work has been published on the Cabaniss Group in the specific area of investigation. The depositional framework of the Pennsylvanian sandstones in the Mid-Continent region was described in detail by Brown (1979). Extensive regional studies focusing on the stratigraphy, sandstone trends, and depositional environments of the Upper “Cherokee” Group were initially completed in northeastern Oklahoma on the Cherokee Platform (Figure 3). The locations of subsequent studies steadily migrated westward into central Oklahoma. Works by Ahmeduddin (1968), Albano (1973), Berry (1965), Chandler (1976), Dogan (1969), Pulling (1979), Shipley (1975), Shulman (1966), Valderrama (1974), Verish (1979), and Zelif (1975) confirmed that the source area for Cabaniss “sands” lies to the northeast of Oklahoma and that sandstone trends are part of a deltaic system that contains distributary channel, interdistributary bay, delta front, marginal marine, and prodelta deposits. Berg (1969) emphasized that the Nemaha Ridge (Figure 3) was not a significant source for “Cherokee” sediment, but rather acted as a barrier, deflecting the distribution in a more southwestwardly direction. However, Puckette’s (1990) initial study in the shelf and slope regions of the Anadarko Basin established that Upper Skinner fluvial-deltaic deposition occurred as far west as Roger Mills County. The economic importance of Upper “Cherokee” sandstones as prolific oil and gas producers prompted the Oklahoma

Geological Survey to create special publications on the Skinner and Prue plays as part of their fluvial-dominated deltaic (FDD) oil reservoirs project. This project, headed by Andrews (1996), collected, organized, and analyzed all data available on the Cabaniss sandstones to increase the understanding on how to improve exploration strategies, hydrocarbon recovery, and sustain the life of existing wells.

## CHAPTER II

### STRUCTURAL FRAMEWORK

#### Tectonic Setting

The area of investigation is located in the east-central part of the Anadarko basin (Figure 3). The basin is defined by several tectonic elements that include the Nemaha Ridge, Northern Oklahoma Platform, and the Wichita Mountains. The Nemaha Ridge is an anticlinal feature that extends from southern Oklahoma to Nebraska and is separated from the eastern border by north-south trending faults (Ahmeduddin, 1968). The shallow, gently dipping northern shelf is bounded by the Northern Oklahoma Platform. The southern margin of the basin is a frontal fault zone that separates the Anadarko Basin from Cambrian age igneous rocks of the Wichita-Criner Uplift (Perry, 1988).

The Anadarko Basin is an asymmetrical, depositional and tectonic trough that contains 40,000 feet of Cambrian through Permian sedimentary rocks, making it one of the deepest cratonic basins in the world (Perry, 1988). The basin did not develop its present shape until late Mississippian through Pennsylvanian time when the Pennsylvanian Orogeny was initiated with the uplift of the Wichita Mountains. Further tectonism in the surrounding area resulted in increased subsidence and high deposition rates of mud, carbonate, sand, and minor amounts of granite wash throughout much of the Pennsylvanian (Hester, 1997). Due to the thickness and availability of reservoir rocks in the stratigraphic column of the Anadarko basin, it remains the most prolific producer of oil and gas within the continental United States.

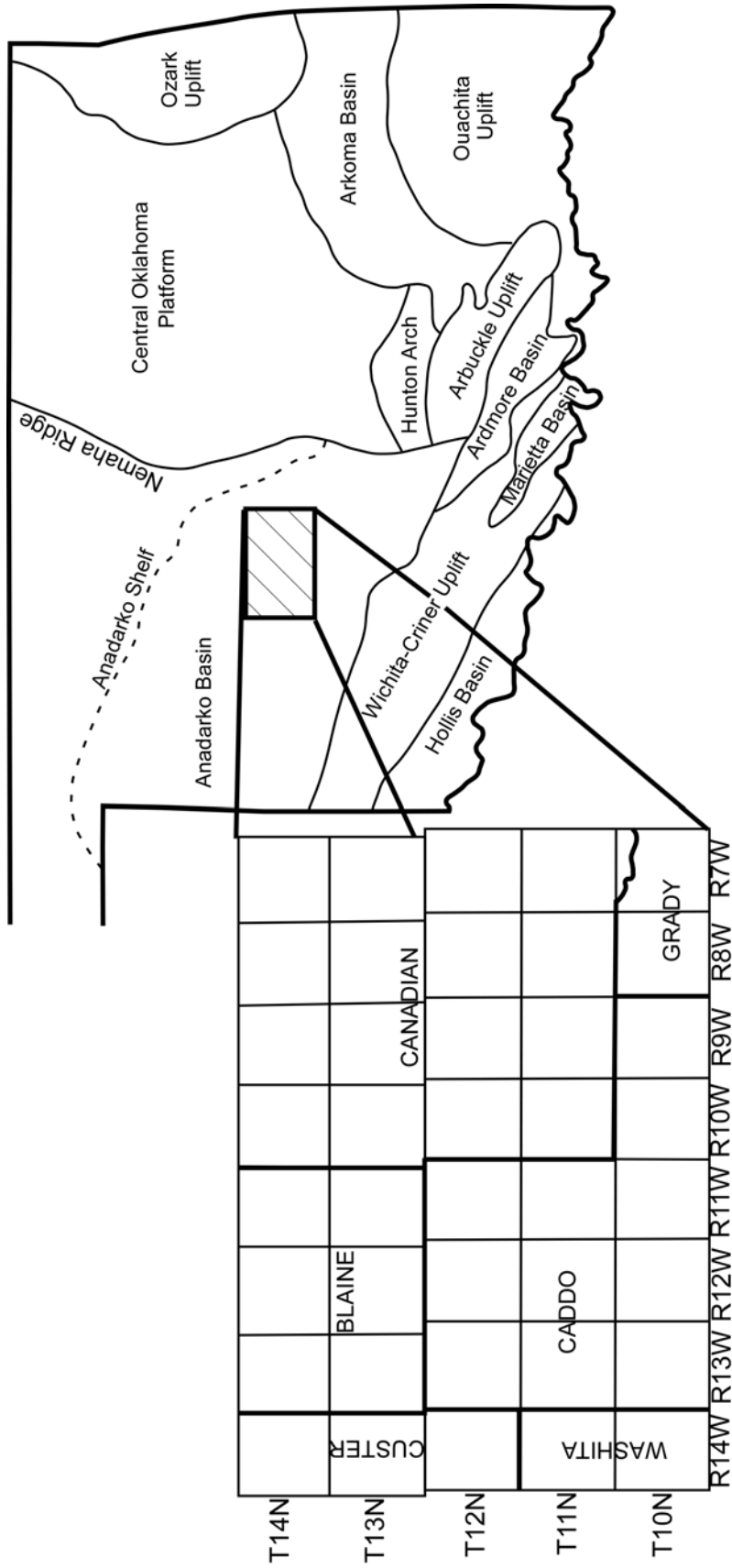


Figure 3. Map showing tectonic features surrounding study area.



## Local Structural Geology

Interpretations of the local structural geology were derived from two structure contour maps that were constructed for the top of the Verdigris Limestone (Plate I) and Pink Limestone (Plate II) respectively. The primary purpose for generating these maps was to illustrate dip orientation, identify structural anomalies (i.e. faults, closures, etc), and examine the relationship between those anomalies and hydrocarbon productivity. The Pink and Verdigris horizons were selected as mapping units because they are spatially in close proximity to the “Cherokee” sandstones and these limestones exhibit continuity throughout the study area.

Both structure maps reveal a southwest, homoclinal dip of 100 feet per mile in the northeastern portion of the study area. In the deeper region of the basin (T.11N., R.11W.), this dip gradually increases to 150 feet per mile. All dip is to the south and southwest. Identified structural anomalies include three reverse faults, two subparallel normal faults that define a graben, and a northwest-southeast trending anticline that extends from T.11N. , R.14W. to T.10N. , R.12W. These features are shown on the Verdigris structure map (Figure 4).

The normal faults located in T.11N. , R.10W. trend northeast-southwest and displace as much as 250 feet of section on their downthrown blocks. Farther to the north in the southeast corner of T.12N., R.10W., the regional dip is interrupted by two reverse faults that are downthrown to the southeast, while a third fault occurs in T.12N., R.9W. This fault is downthrown in a more eastwardly direction. The only mappable structural closure is approximately 200 feet and occurs as part of the anticline that characterizes the southwestern portion of the study area. The occurrence of this anomaly on both maps, as

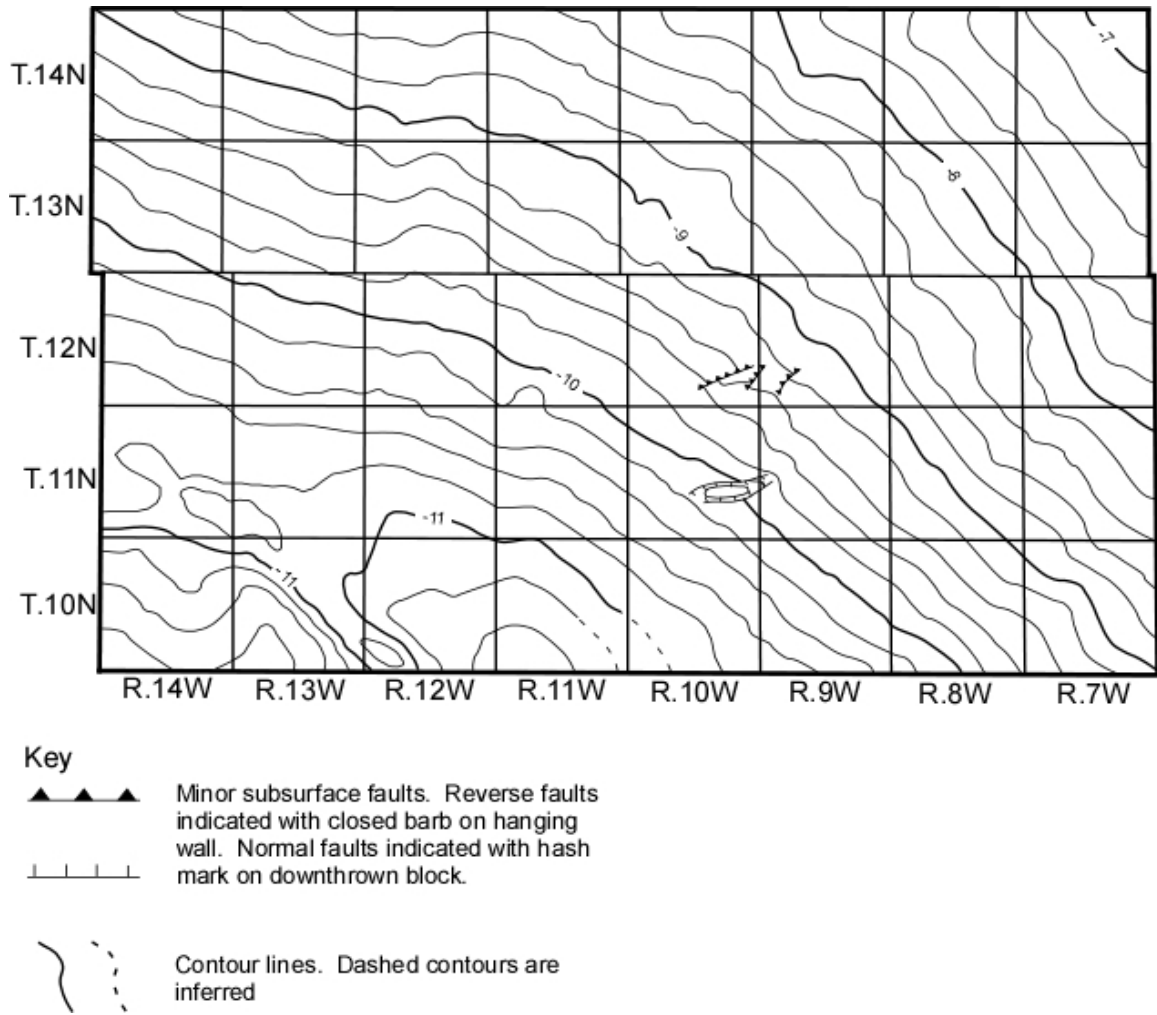


Figure 4. Structure contour map on top of the Verdigris Limestone. Contour interval is 200 feet. Index numbers should be multiplied by 1000. Datum is sea level.

well as contour patterns, suggest that a deep fault was reactivated following the deposition of the Cabaniss Group.

## CHAPTER III

### STRATIGRAPHIC FRAMEWORK

#### Introduction

As stated previously, the stratigraphic analysis is only concerned with the Cabaniss, or Upper “Cherokee” Group of the Desmoinesian Series, Pennsylvanian System. Figure 5 is a dip oriented cross-section depicting sandstone zones and key marker beds used to establish the stratigraphic framework of the Cabaniss Group.

Prior to 1954, the strata located between the base of the Oswego Limestone and the base of the Brown Limestone were simply known as the “Cherokee” Group. The Oklahoma Geological Survey decided to drop the name Cherokee and replace it with Cabaniss and Krebs after Malcolm Oakes (1953) recognized an unconformable surface just above the Red Fork zone on outcrops in east-central and northeastern Oklahoma. This unconformable surface is unrecognizable in the area of study, therefore, the name Cabaniss is used loosely among petroleum geologists working the Anadarko Basin.

The Cabaniss Group is named after a village in Pittsburgh County (Oakes, 1953) and by convention includes three major depositional cycles that are named for the principal sandstones, which are the Lower Skinner/Chelsea, Upper Skinner/Oowala, and the Prue/Lagonda. The Cabaniss Group extends from the top of the Krebs Group to the base of the Marmaton Group (Figure 2). Cross-sections from the Oklahoma Platform to the study area reveal that the units comprising the Cabaniss Group are equivalent to the Senora Formation (Puckette, 1990). In ascending order, these rock units are the Pink

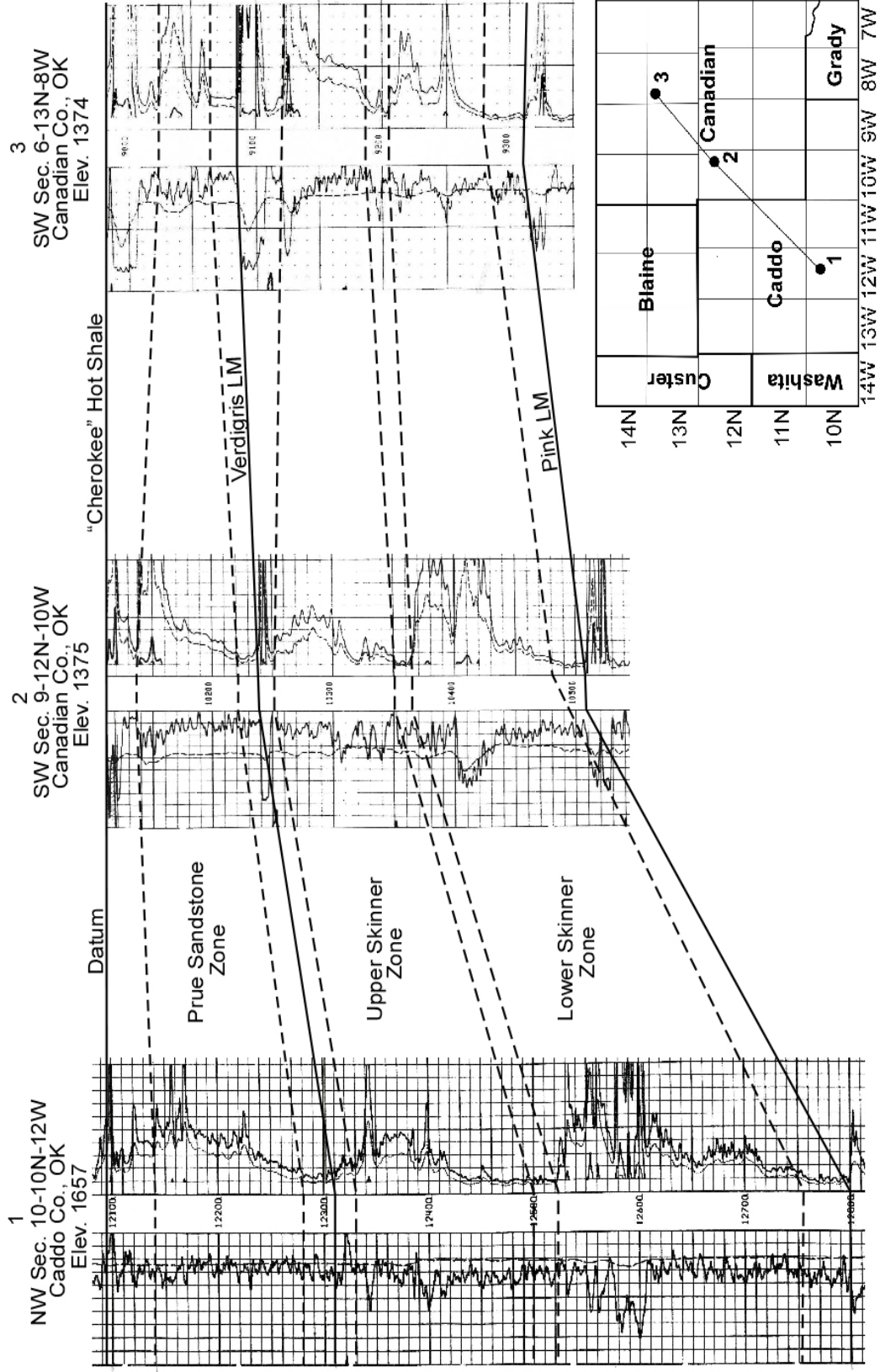


Figure 5. Stratigraphic cross-section showing sandstone zones and key marker beds in study area.

Limestone, Lower Skinner Sandstone, Upper Skinner Sandstone, Verdigris Limestone, and the Prue Sandstone. These units represent a complex depositional history of transgression and regression. Maximum transgression within each cycle is associated with a “hot shale” (HS), whereas maximum regressions is responsible for forming the incised-valley that became the thickest sandstone bodies.

#### Description of Stratigraphic Units

##### Pink Limestone Cycle

The Pink Limestone represents the first major transgression of the Cabaniss Sea and forms the first transgressive-regressive cycle. Studies from the shelf indicate the Pink Limestone is composed of deep and shallow water carbonate facies, an exposure surface, and black shale (Puckette, 1990). The Pink carbonate identified by log signature averages 10 feet in thickness. The lateral extent of the Pink Limestone enables it to be a reliable marker bed, although it tends to lose its characteristic wireline log signature in the deep portion of the area in and around T.10N. , R.14W.

##### Skinner Sandstones

The Skinner interval contains two distinct zones; an upper and lower. Throughout much of the Central Oklahoma Platform a Middle Skinner zone is recognized, but it is not evident in the study area. These sandstones are very fine to fine grained, micaceous sandstones with an abundance of carbonaceous shale and carbonized plant remains (Andrews; et.al., 1996). Both sandstones are well developed throughout the greater portion of the study area, although the Lower Skinner loses sandstone characteristics along the western fringe. The Lower Skinner Sandstone produces more oil and gas in this study area than the Upper Skinner Sandstone.

### Verdigris Limestone Cycle

The Verdigris Limestone cycle signifies the youngest major transgression of the Cabaniss Group and marks the boundary between the base of the Prue Sandstone interval and the top of the Skinner Sandstone interval. This thin carbonate lithostratigraphic marker bed lies immediately above the Upper Skinner Sandstone. In eastern Oklahoma, the Verdigris is described as a tan to gray, microcrystalline, dolomitic limestone (Cole, 1955). Similar to the Pink Limestone, the Verdigris loses wireline log characteristics in the deeper portions of the study area, making it slightly difficult to recognize. However, the limestone's position on wireline logs can be determined by its close association with the radioactive shale directly beneath the Verdigris, which is known as the Oakley Hot Shale (Figure 5).

### Prue Sandstone

The Prue Sandstone interval overlies the Verdigris Limestone and represents the final regression of the Cabaniss Group. In south central Oklahoma this sandstone interval is a brown to light gray, fine to very fine micaceous sandstone with moderate to well sorting (Broker, 2000). The Prue Sandstone is not well developed in the study area and produces only minor volumes of oil and gas compared to the Skinner sandstones.

### "Cherokee" Hot Shales

Separating the Prue Sandstone from the overlying Oswego Limestone are oxygen deprived radioactive shales known as the "Cherokee" hot shales (Figure 5). The oldest of these hot shales, the Excello, can be traced back to the Senora Formation in eastern Oklahoma (Puckette, 1990). Due to the lateral extent of the Excello, it was used as a correlation tool and served as the defining upper boundary for the Prue Sandstone

interval and the Cabaniss Group.



## CHAPTER IV

### DEPOSITIONAL SETTING

#### Introduction

A genetic increment of strata (GIS) is described by Busch (1971) as a sequence of strata whose upper and lower boundaries are defined by a time lithologic marker bed, such as a thin limestone, hot shale, unconformity, or marine to non-marine facies change. The GIS concept was applied in this study because the conventional stratigraphic boundaries of the Skinner and Prue contain multiple depositional cycles, including some that cross traditional boundaries. In deep sedimentary basins each increment can be isopached to identify the shelf, hingeline, and stability (subsidence) of a basin as it was during that particular point in time (Busch, 1971). This method proved to be effective for Puckette (1990), who concluded the Cabaniss Group was deposited over a relatively stable shelf environment to the west, as well as for Johnson (1984) who recognized the presence of a distinct shelf edge in the Upper Red Fork interval of the Krebs Group in the northwestern portion of the study area.

Johnson's (1984) work also established that during Upper Red Fork time, large amounts of sand and mud accumulated beyond the shelf edge on the basin floor. The accumulation of sediment and filling of accommodation space during Red Fork time influenced the depositional patterns for the Lower Skinner sediment dispersal system. In a similar manner, accumulation of Lower Skinner sediments could have impacted the distribution of the overlying Upper Skinner Sandstone. This process likely continued

into the Prue interval, which may have responded to sediment accumulation in the Upper Skinner cycle. To test the hypothesis that older sediment accumulation affected younger deposition, two interval isopach maps representing the Skinner GIS and Prue GIS were constructed. Knowledge of sea level conditions and depositional strike interpreted from the interval isopach maps were applied to the prediction of depositional facies.

#### Skinner Genetic Increment of Strata

The Skinner GIS is defined as the interval from the Verdigris Limestone to the Pink Limestone. As stated previously, the interval contains distinct upper and lower sandstone zones. However, the absence of a distinct chronostratigraphic or lithostratigraphic marker that could be recognized on wireline logs prevented the construction of separate interval isopach maps. The Skinner interval displays a southwestward thickening that increases from 150 to 800 feet (Figure 6, Plate III). This provides evidence to support a basin depositional area to the southwest and a source area to the east-northeast. The contour density in Figure 6 (Plate III) reveals a gradual increase in thickness over the northeastern half of the study area, which supports the interpretation of a stable shelf environment in this area. The thickening could be interpreted to indicate a loss of shelf stability around the position of the 350 foot contour interval, which continues to the southwest, where thickening increases to a rate exceeding 200 feet per mile. Although this thickness gradient is not as striking as the thickening associated with the Red Fork shelf edge, factors exist that lead to the inference that shelf steepening can be attributed to subsidence during Lower Skinner time. Cross-sections across the region of relative instability reveal that the Lower Skinner zone thickens more than the Upper Skinner, which can be accredited to the development of accommodation as a result of the

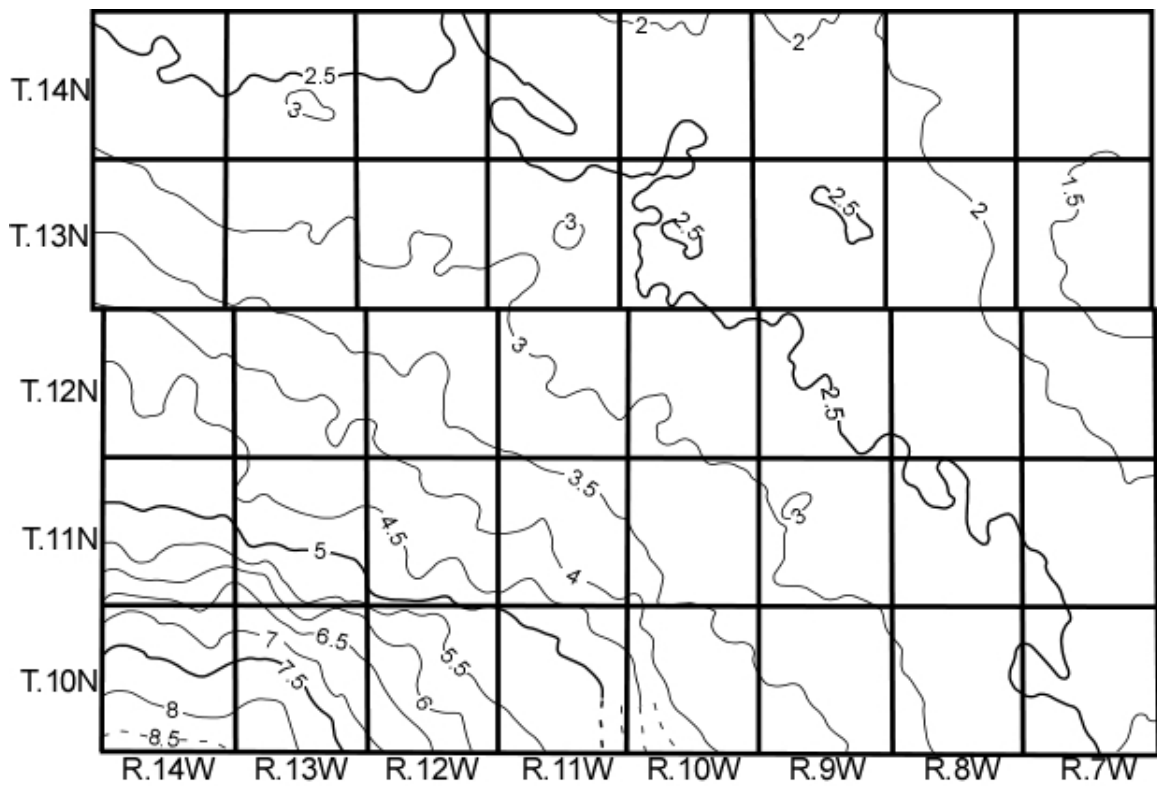


Figure 6. Thickness map of the Skinner genetic increment of strata. Contour interval is 50 feet; index numbers should be multiplied by 100.

faster rates of subsidence. The extra accommodation did not affect sandstone facies, but rather served as a local depo-center for the Lower Skinner fluvial-deltaic and marginal marine sediments. As a result of the filling of this depocenter, little accommodation remained in this area for the succeeding Upper Skinner deltaic complex, which was influenced to migrate westward. The effects of localized subsidence on the development of both sandstones is evident by the apparent absence of Lower Skinner and the abundance of Upper Skinner “sands” along the western fringe of the study area.

In conclusion, the Skinner sands were deposited over a stable shelf that was subsiding during deposition. A local depocenter formed that trapped sand-sized Lower Skinner sediments and prevented their westward transport. To evaluate the impact of localized subsidence on distribution of sandstone facies, an analysis of depositional environments and sandstone geometry was conducted. This analysis will be discussed in detail in the next chapter.

#### Prue Genetic Increment of Strata

The Prue GIS is the uppermost sand-rich cycle of the Cabaniss Group and is defined at the top by the Excello Hot Shale and at the base by the Verdigris Limestone. The Prue interval ranges in thickness from 70 feet in the northern part of the study area to over 260 feet in the southwest. The Prue demonstrates the same southwestward thickening as the Skinner interval, although at a much slower rate. When the Prue is compared to the Skinner, the rate of thickening in the Skinner increment (Figure 6) is greater than the increase in thickness observed for the Prue (Figure 7, Plate IV), inferring subsidence had slowed during Prue deposition. Westward, the Prue Sandstone is poorly developed. It is completely absent from R.13W. to R.14W.

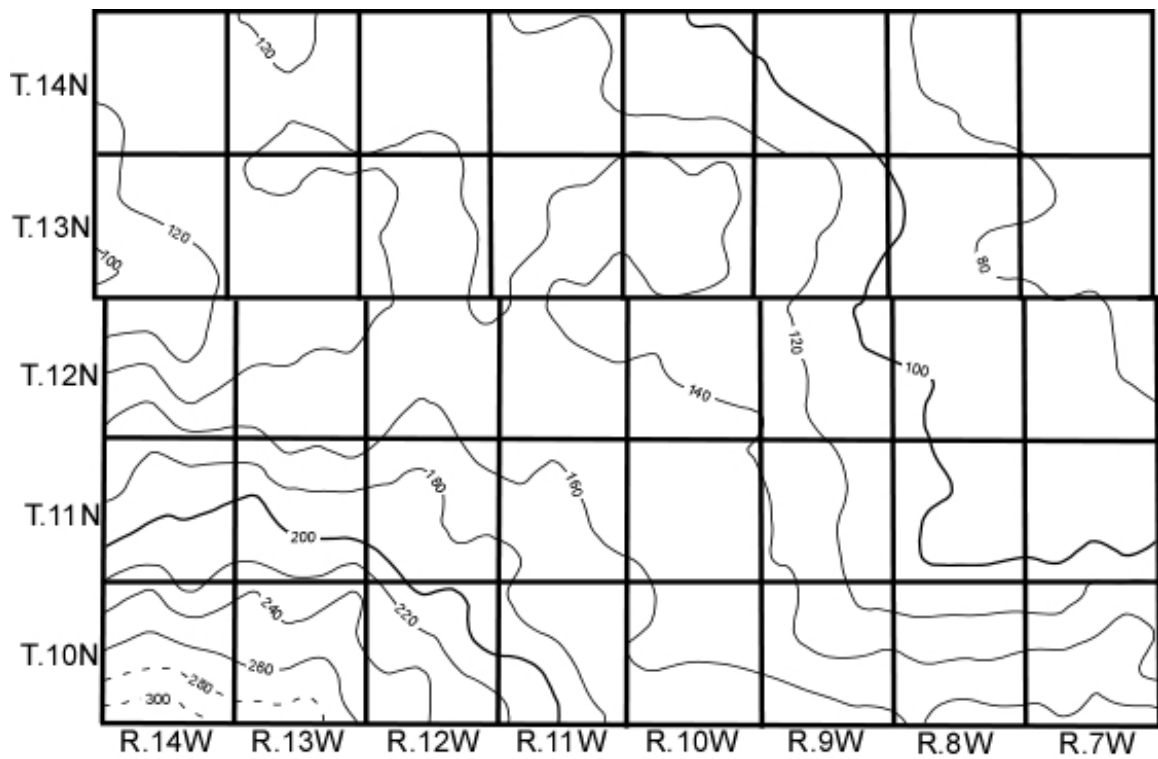


Figure 7. Thickness of the Prue genetic increment of strata map. Contour interval is 20 feet. Interval thickness exhibits very gradual thickening across the study area.

## CHAPTER V

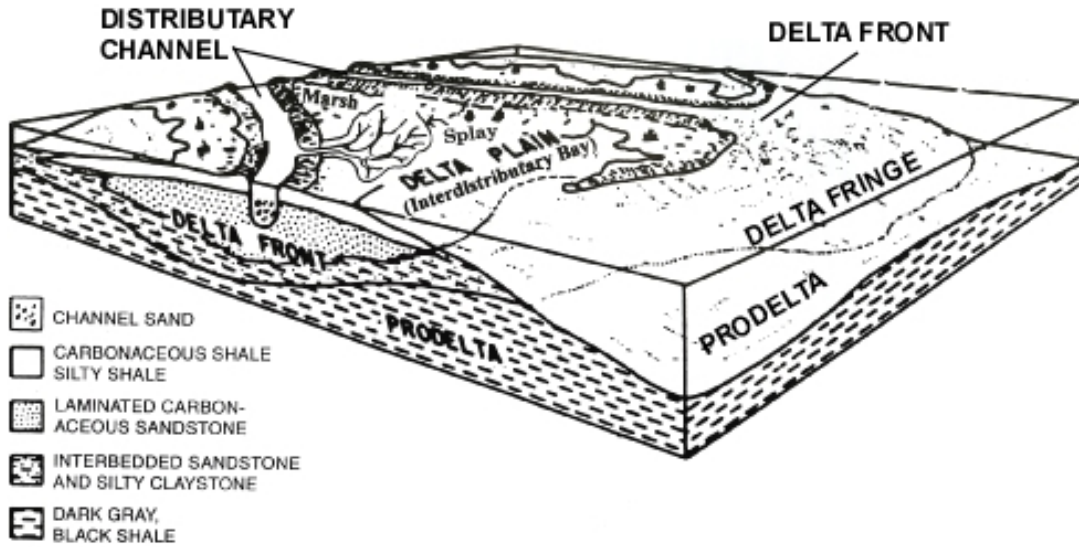
### DEPOSITIONAL FACIES

#### Introduction

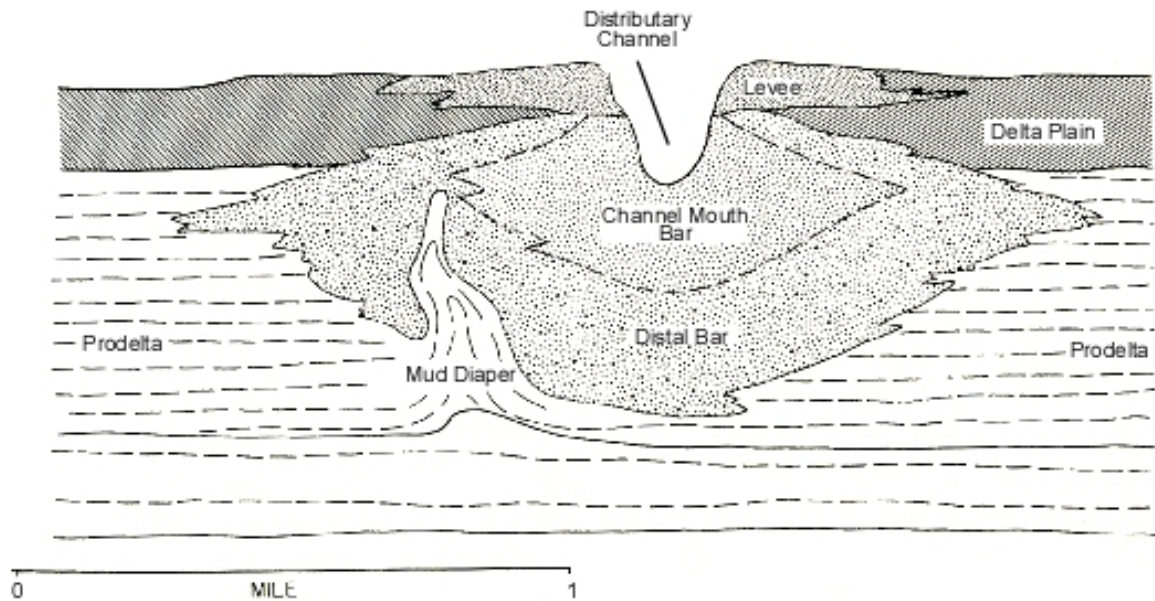
The Upper Cherokee is considered to be of “deltaic origin” (Brown, 1979). However, there are many sub environments within a deltaic complex that must be examined. A deltaic system can be subdivided into two categories: upper deltaic plain and lower deltaic plain. Andrews and others (1996) describe the upper deltaic plain as the portion of the delta least affected by sea level changes and includes such sub environments as meandering rivers, distributary channel, point bars, lacustrine deposits, swamps, and marshes. Environments found within the lower deltaic plain typically overlie delta front and prodelta facies, and include distributary channel, channel fill (incised valley), interdistributary bay, and distributary mouth bar deposits (Andrews; et.al., 1996). Since changes in sea level greatly impact these depositional processes, the lower deltaic plain can also be characterized by marine reworked delta front deposits (delta fringe) and thin channel mouth bar deposits (Brown, 1979). The categorization of subenvironments within the lower deltaic plain can be subjective. For instance, channel mouth bars and delta fringe deposits are usually classified as delta front, which in turn is commonly considered a marginal marine environment. For this study, thick channel mouth bars, although still considered a marginal marine environment, are mapped separately for their hydrocarbon-bearing potential. The depositional model of a lower deltaic plain system is shown in Figure 8.

The depositional model for the Cabaniss sandstones has been reconstructed throughout the Northern and Central Oklahoma Platforms, the eastern and western flanks of the Nemaha Ridge, as well as along the shelf and slope regions of the Anadarko Basin. Based on petrologic studies, core analysis, electrofacies observations, and facies distribution patterns, these sandstones were deposited in fluvial-deltaic and marginal marine settings that consist of upper deltaic plain, lower deltaic plain, and prodelta facies (Ahmedduddin, 1963; Berg, 1969; Zeliff, 1976; Shipley, 1977; Lojek, 1983; and Puckette, 1990). Valderrama (1976) conducted a detailed study on the Skinner sandstones in central Oklahoma and recognized five depositional facies: (1) distributary channel, (2) channel mouth bars, (3) interdistributary bay, (4) marginal marine, and (5) prodelta. Puckette (1990) concluded the Upper Skinner Sandstone in western Oklahoma was deposited in a fluvial deltaic system which included an incised valley filled during a subsequent rise in sea-level. He also indicated that sandstone bodies are sparse in the Lower Skinner and that the Prue Sandstone was completely absent in far western Oklahoma (Puckette, 1990).

For this study, the interpretation of depositional environments was interpreted primarily on sandstone body trends, geometry, and sedimentary structures. Geometry was based on the log signatures of gamma ray curves. The interval isopach maps and sandstone isopach maps delineated sandstone trends. Sedimentary structures are normally interpreted from core. However, there were no cores within the boundary of the study area. One core of the Upper Skinner Sandstone located east of the study area in section 17 of T.10N., R.5W, Canadian county was examined. The core allowed documentation of the sedimentary structures, whereas thin sections were used to



(A)



(B)

Figure 8. (A) Model depicting subenvironments of a lower deltaic plain system and their lithology (modified from Brown, 1979). (B) Cross-section showing the lateral relationship of channel mouth bars along with related facies (modified from Fisk, 1961).



determine detrital and authigenic constituents and pore types within the sandstone. Additional core data are located immediately west of the study area. These were examined by Puckette (1990) who correlated textural trends and depositional facies to log signatures. When lithology was difficult to determine from the gamma ray curves alone, well bit cuttings were examined to determine lithology and clarify depositional environment classifications. Finally, interpretations of depositional settings and environments were used to determine the impact of basin subsidence on the distribution of sandstone facies.

#### Electrofacies

When lithologic data are lacking the interpretation of depositional environments is commonly based on wireline well log signatures that are correlated to core. The SP curve was used to construct depositional models for Upper Cherokee sandstones throughout Oklahoma. Valderamma (1976) and Lojek (1983) utilized log patterns of the SP curve to classify different sedimentary processes for the Skinner sandstones in central and northeastern Oklahoma, respectively. For this project the gamma ray curve, which is often used as a correlation tool, was used in a similar fashion to predict facies for the Prue and Skinner sandstones. The shape of the gamma curve is proportional to clay and/or shale content of the formation regardless of age, therefore making it possible to predict depositional facies (Valderamma, 1976). Once an interpretation of depositional facies was established based on the gamma ray curve signatures (hereafter referred to as “electrofacies”), depositional environment maps of all three Cabaniss sandstones were constructed. Figure 9 displays the electrofacies that were interpreted in the investigated area along with their respective depositional environments. Five depositional facies were


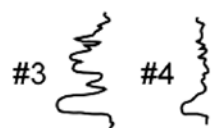
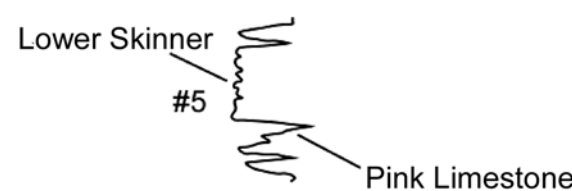
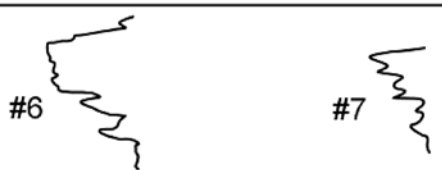


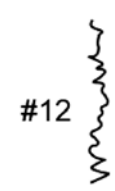
Environment	Gamma Ray Electrofacies		Description
Distributary Channel	 <p>#1 #2</p> <p>Main Channel</p>	 <p>#3 #4</p> <p>Minor Channel/ Channel Edge</p>	Distinct FUS and FUS Sandstone/ Shale Sequence
Incised-Valley Fill	 <p>Lower Skinner</p> <p>#5</p> <p>Pink Limestone</p>		FUS that cuts underlying strata
Marginal Marine	 <p>#6 #7</p> <p>Delta Front (Channel-Mouth-Bars)</p>		Distinct CUS
	 <p>#8 #9 #10</p> <p>Delta Fringe/Interdistributary Bay</p>		CUS Sandstone/ Shale Sequence or Thin CUS
	 <p>#11</p> <p>Interbedded ("Ratty") Sandstone/Shale</p>		No Distinct FUS or CUS
Prodelta	 <p>#12</p> <p>Marine Shale</p>		GR "Hugging" Shale Baseline

Figure 9. Chart representing electrofacies that were used to interpret depositional environments within the study area.

recognized in the study area: (1) distributary channel, (2) incised-valley fill, (3) delta front, (4) marginal marine, and (5) prodelta.

The electrofacies associated with both distributary channel and incised-valley fill (IVF) environments have the characteristic fining-upward gamma-ray signature, and are commonly referred to as fining-upward sequences (FUS). Distributary channel facies generally are very thick and “clean” with sharp basal contacts and gradational upper contacts. Channel edge deposits, however, generally contain greater amounts of interbedded shale while maintaining a slightly less distinct fining-upward signature. Fluvial channels commonly incise preexisting strata, eroding underlying shale and/or marker beds. These incised valleys have log profiles that are similar to those of normal distributary channel electrofacies, but are generally much thicker and appear to have a “blocky” profile (Figure 9). Basal contacts for incised valleys are almost always sharp, while upper contacts are sharp to gradational.

Delta front deposits may consist of channel-mouth-bars that generate a clean coarsening-upward gamma ray profile with a sharp upper contact and gradational lower contact. This is the result of deposition in shallower water at the front of prograding river mouths (Brown, 1979). These sand bars have an elongate, finger-like distribution pattern in map view, and represent deposition as minor extensions of main distributaries (Andrews; et.al., 1996). A cross-section view of channel-mouth-bars and their position relative to distributary channels is shown in Figure 8B.

Environments within a marginal marine setting represent the most distal of delta front deposits, and consist of laminated fine-grained sandstone, claystone, and shale (Lojek, 1983). There are four types of electrofacies for a marginal marine environment

in the area of study. Electrofacies #8 and #9 are more common and display coarsening upward profiles with higher contents of interbedded shale. These types of gamma ray signatures are interpreted to signify distal channel mouth bars. The least common is electrofacies #10, which demonstrates a thin coarsening-upward profile that is interpreted to represent re-worked thin, channel-mouth-bars. Finally, electrofacies #11 appears “ratty” with no distinct coarsening-upward or fining-upward profile due to pulses of alternating sand and mud deposition.

Prodelta is the fifth and final type of environment interpreted within the study area. It represents marine-dominated sedimentation of mud and silt, transported in suspension by density currents (Valderamma, 1979). Electrofacies of prodelta deposition are characterized by minor deflections of the gamma ray curve, signaling the presence of shale and poorly developed sandstone.

### Core Analysis

#### General Discussion

The nearest core that was available for examination was the Texaco Corp., Payne No. 1-17, located in T.10N, R.5W. The primary purpose for examining this core was to document depositional structures, internal constituents, and grain sizes so a correlation could be made between the core-derived interpretations of environments of deposition and their representative electrofacies. Figure 10 depicts gamma ray, resistivity, and porosity curves complete with an illustration of lithology and sedimentary structures for the cored interval.

The cored interval on the well log is from 8656’ to 8681’, while the core depth ranges from 8641’ to 8671’ – a difference of 10 feet. The gamma ray profile is an overall

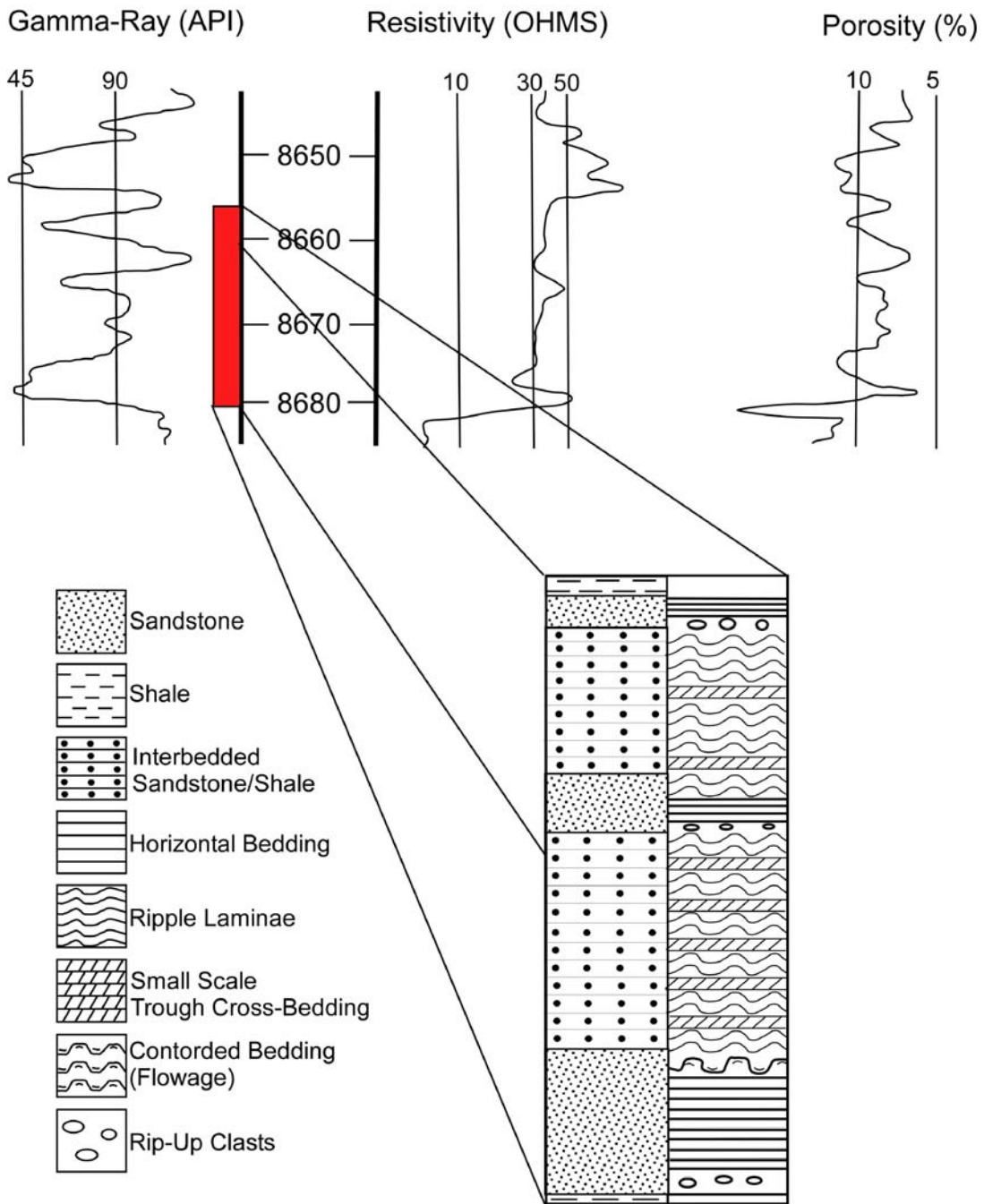


Figure 10. Fining upward Upper Skinner sandstone cored interval from Texaco, Payne No. 17-1 along with lithology and sedimentary structures.

fining-upward sequence containing three distinct sandstone units that are separated by thick, interbedded sandstone-shale zones (Figure 10). Common sedimentary structures in the sandstone units are mud rip-up clasts (channel lag), horizontal bedding, and one case of contorted bedding towards the top of the lowermost sandstone unit. The interbedded sandstone-shale layers typically contained wavy bedding, ripple laminae, and small-scale trough cross-bedding. Pictures of each lithologic unit with their respective sedimentary structures are illustrated in figures 11, 12, 13, and 14. Thin section examination reveals an upward fining of grains that are well sorted and rounded. Common detrital constituents for all units include quartz, plagioclase feldspar, potassium feldspar, muscovite mica, rock fragments, and chlorite. Lesser amounts of carbonaceous debris were also recognized throughout the interval, and trace amounts of fossils including brachiopods and crinoid fragments occur at the base of the lowermost sandstone unit. The formation of secondary porosity was hindered by the presence of quartz overgrowths, and calcite cement.

The sedimentary structures and the overall vertical fining-upward in grain size are characteristic of a channel fill environment. The alternating sandstone and sandstone-shale sequences infer that this particular channel is interpreted to represent a multistoried channel fill deposit. Evidence for channelization lies in the presence of rip-up clasts and marine fossil fragments from the scouring of a previously deposited marine unit. The interstratified sandstone and shale containing ripple laminae and micro cross-bedding may represent the filling of the channel during a rise in sea level. The middle and upper sandstone units also contain channel lag fragments with an increase in carbonaceous plant material and an absence of marine fossils. The upper and lower contacts of the cored

interval are sharp with the adjacent shale layers.



Figure 11. Shale with interbedded very fine-grained sandstone, Texaco Payne No. 17-1, Canadian Co., OK.



Figure 12. Very fine-grained sandstone with thin clay laminae. Sedimentary structures include ripple laminae and trough cross-bedding. Texaco, Payne No. 17-1.





Figure 13. Sandstone with contorted bedding (flowage) and a small amount of carbonaceous debris. Texaco, Payne No. 17-1



Figure 14. Basal rip-up clast conglomerate that grades upward into fine-grained, horizontally bedded sandstone. Mud rip-up clasts (channel lag) are common in high energy environments. Texaco, Payne No. 17-1.

## Sandstone Trends and Distribution

### Lower Skinner Sandstone

#### Introduction

Lower Skinner sandstone bodies are generally well developed across most of the study area. Depositional patterns become complex in the southwestern part of the study area where multistoried units are prevalent. Figure 15 is the depositional environment map for the Lower Skinner Sandstone as interpreted from wireline log electrofacies shown in Figure 9. All five facies types are evident for the Lower Skinner, including: (1) distributary channel, (2) incised-valley fill, (3) delta front (channel-mouth-bars), (4) marginal marine, and (5) prodelta. The spatial relationships between these environments are illustrated on cross-section A-A' (Figure 16).

#### Incised-Valley Fill Facies (IVF)

IVF facies represent the thickest sandstone units in the Lower Skinner interval. The incised-valley in this study can be divided into three parts: (1) the southeast-northwest trend that begins in the southwestern portion of T.11N, R.7W., (2) the east-west trend that spans T.11N., R.8W. through T.11N., R.9W., and (3) the northeast-southwest trend that appears to end in the southeastern corner of T.11N., R.11W. Collectively this channel covers some 31 miles and reaches widths of up to 1.5 miles. Well #3 in figure 16 displays the electrofacies of an incised-valley located in the southwest trend, where sandstone units are typically the best developed. As shown, the channel deposits are lenticular and commonly underlie poorly developed sandstone-shale sequences. The down cutting that occurred prior to deposition of the sandstone allowed

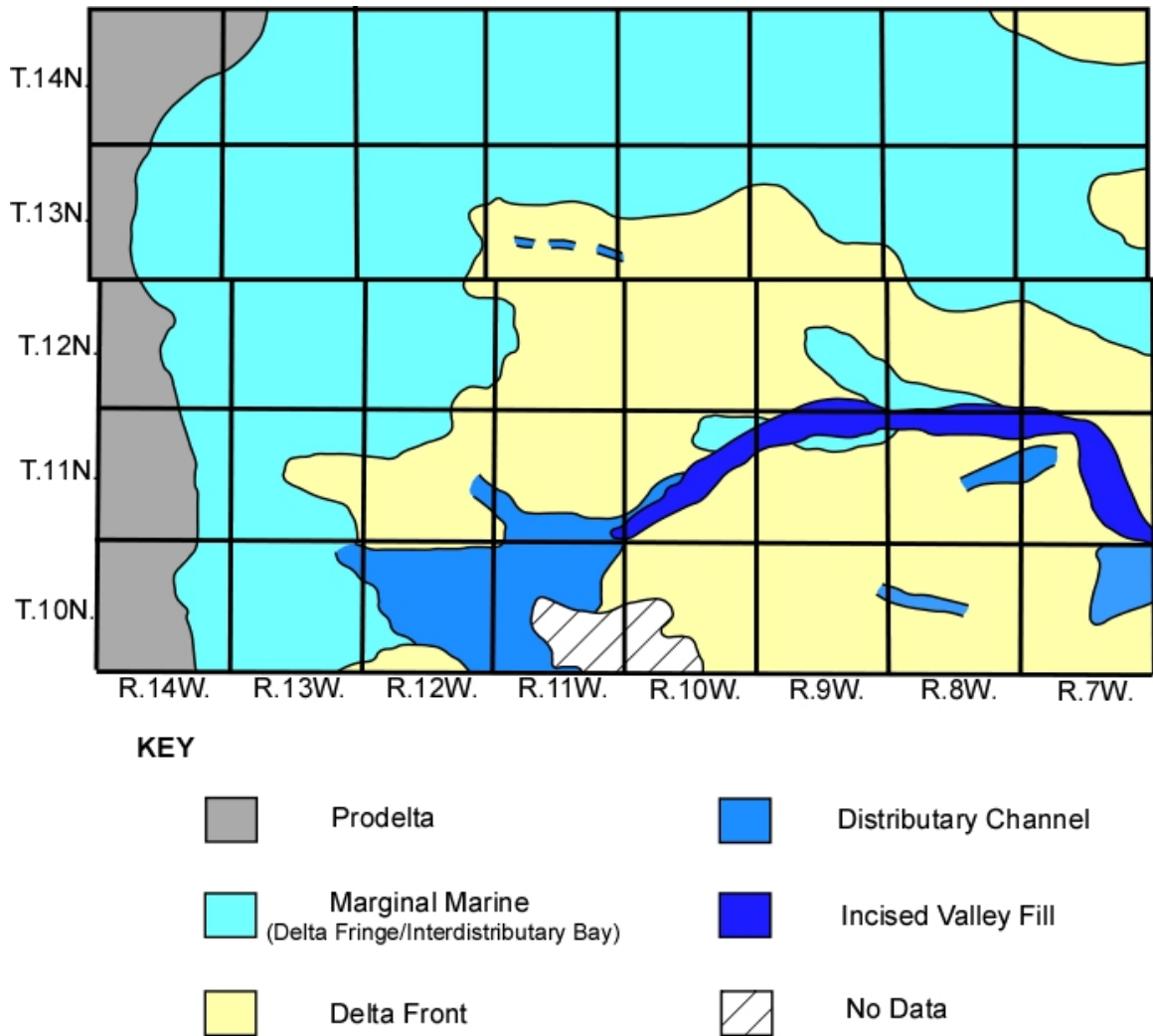


Figure 15. Distribution of electrofacies within the Lower Skinner Sandstone interval.

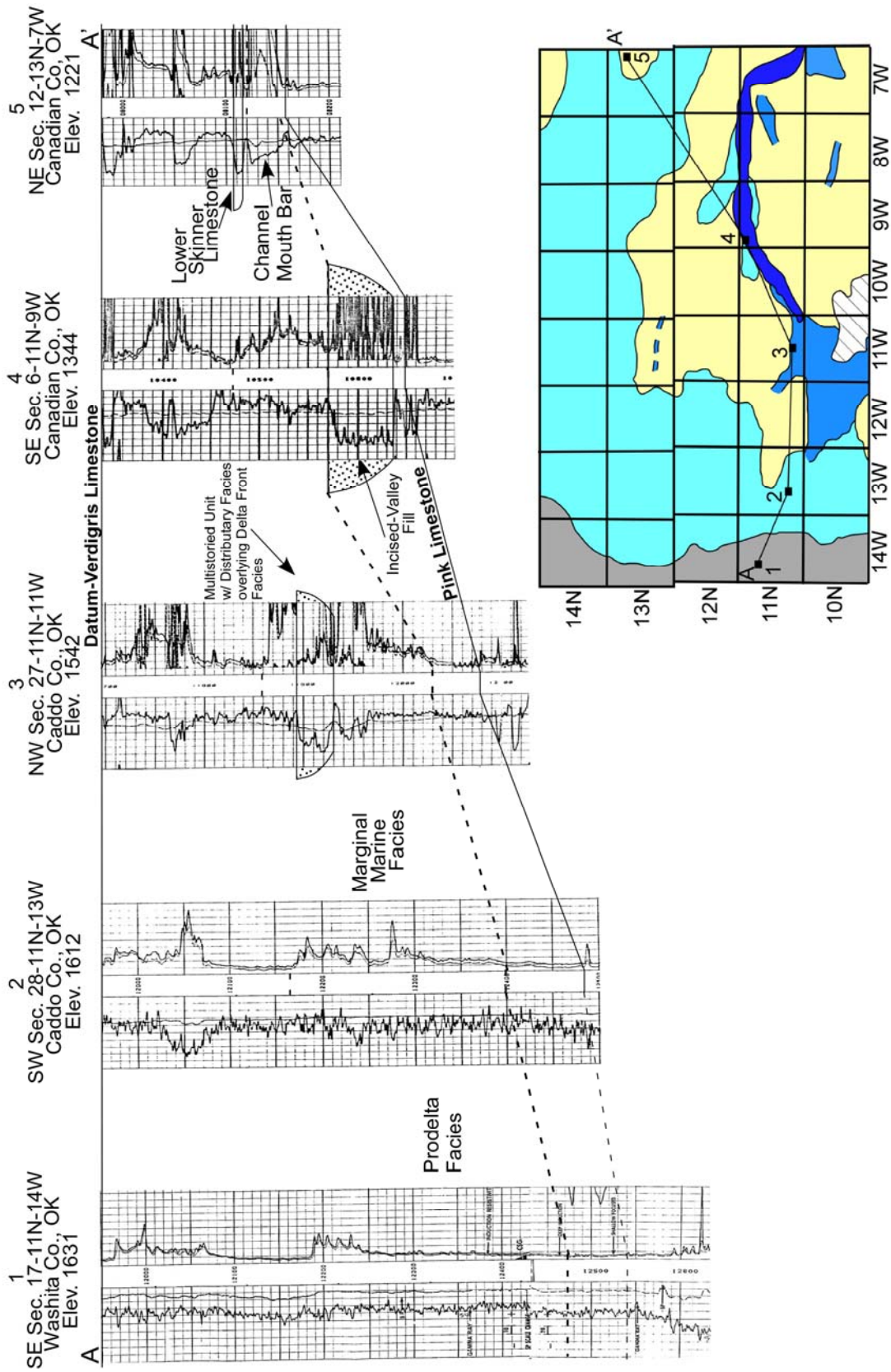


Figure 16. Cross-section showing spatial relationships between environments of the Lower Skinner Sandstone.

juxtaposition of apparent fluvial sandstone on marine shale. In some cases the Pink Limestone marker bed is completely eroded.

In cratonic basins incised-valleys commonly form in shallow and stable shelf environments, and rarely form in deeper water conditions associated with high rates of subsidence (Brown, 1979). The distribution pattern of the Lower Skinner IVF seems to correspond to the stable region of the shelf as interpreted from the thickness of the Skinner interval. The mappable incised-valley terminates abruptly in the area where subsidence is believed to have increased, and distributary channel and marginal marine facies become dominant.

#### Distributary Channel Facies

Major and minor distributary channels are classified by their width and the refinement of the fining-upward textural profile. The first of two minor channels is located in T.13N., R.11W. and consists of three individual sandstone bodies that reach widths of .25 to .75 miles. The second is a continuous, northwest-southeast trend located in T.10N., R.8W. that spans 4 miles and has a width of .75 miles. Major channels have a dominant northeast-southwest trend that closely resembles the pattern of the Lower Skinner IVF. The first area of major distributary channel development lies in T.10N., R.7W. and spans an area of 4 miles wide and 4 miles in length. A second major distributary channel occurs in T.11N., R.7W. and covers 5 miles and reaches a width of 1.25 miles. Both major and minor distributary channels most likely are isolated trends that are of a different age from the primary IVF. An extensive distributary channel complex occurs in T.10N., R.12W. and T.10N., R.11W. with extensions into T.11N., R.11W., T.11N., R.12W., and T.10N., R.13W. This lobate network of

distributary channel deposits trends primarily in a southwestward direction, covering approximately 15 miles in length and reaching a maximum width of 8 miles. The sandstone units in this region are thicker as a result of the stacking of fining-upward channel deposits on top of coarsening-upward delta front facies. The fining-upward distributary channels are overlain by marginal marine facies. Multistoried units are common in deltaic environments that are undergoing subsidence. Also of note is the vertical position of these distributary deposits relative to the IVF. Distributary deposits are typically higher in the section than incised-valley deposits. This relationship may be interpreted to infer that the valley functioned as a feeder channel, supplying sediment that would eventually lead to the formation of a small lowstand delta.

#### Delta Front Facies

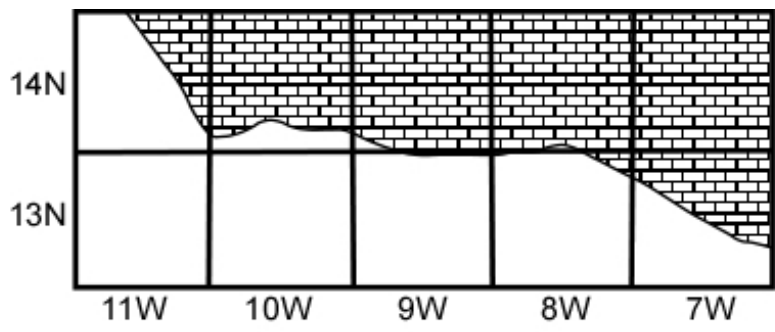
Delta front is the third type of depositional facies interpreted within the Lower Skinner interval. These facies display a dominant northeast-southwest trend. Deposits that are spatially lateral to the IVF and major distributary channel facies span some 39.5 miles in length and reach widths that range from 2.5 to a maximum of 13 miles. Trends also exist in T.13N., R.7W., and T.14N., R.7W. and are 2.5 and 6.25 miles in length respectively. The width of both trends ranges from 1.5 to 3.5 miles. These sequences, although not associated with any channel deposits, are part of an anomaly that occurs in the Lower Skinner zone along the northeastern and eastern edge of the study area. Cross section A-A' (Figure 16) displays an interpreted channel-mouth-bar deposit overlain by a thin limestone that many scout ticket reports confused with the Pink Limestone, which actually underlies the sandstone unit. Well cuttings aided in identifying the anomaly as a limestone and confirmed that the coarsening-upward sequence was indeed a sandstone.

The areal distribution of the limestone unit, known in this study as the Lower Skinner Limestone, is shown in figure 17B.

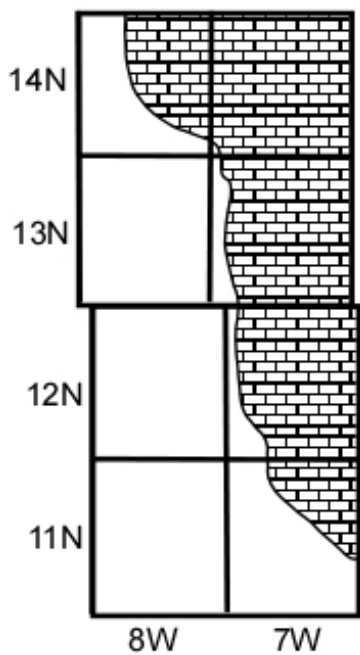
#### Marginal Marine and Prodelta Facies

Marginal marine and prodelta deposits represent the final two depositional processes associated with the Lower Skinner Sandstone. Marginal marine processes cover a relatively large area that includes T.13N.-T.14N., R.7W.-R.14W. to the north, and T.10N.-T12N., R.12W.-R.14W. in the west. Prodelta deposition only occurs along the western edge of the investigated area in T.10N.-T14N., R.14W. Lower Skinner deposits in T.14N., R.7W.-R.13W. are interpreted as distal delta front deposits. In the southwestern portion of the study area in T.10N.-T12N., R.13W.-R.14W., marginal marine facies consist of thick sandstone units containing interbedded shale, and may represent deposition on the leading edge of a deltaic plain that is experiencing syndepositional subsidence. The presence of prodelta facies establishes the limit of recognizable sand deposition associated with the Lower Skinner fluvial deltaic complex in western Oklahoma.

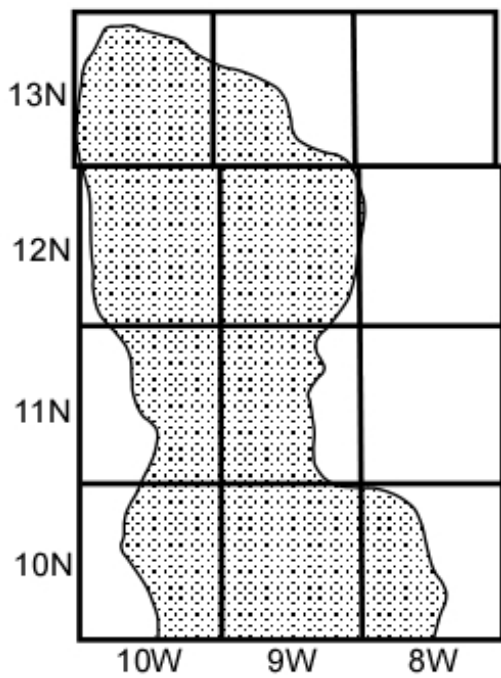




(A)



(B)



(C)

Figure 17. Areal distribution of: (A) Upper Skinner Limestone, (B) Lower Skinner Limestone, and (C) Shallow marine/calcareous sandstone in Upper Skinner zone.

## Upper Skinner Sandstone

### Introduction

According to Puckette (1990), fluvial deltaic processes of the Upper Skinner Sandstone extended as far west as Roger Mills County. As expected, the Upper Skinner Sandstone occurs throughout the study area. Unlike the Lower Skinner sandstone, which contained multistoried units, the Upper Skinner Sandstone consists of one persistent unit. Electrofacies interpreted for the Upper Skinner sandstone include: (1) incised-valley fill, (2) distributary channel, (3) delta front, and (4) marginal marine facies. The distribution patterns for each electrofacies can be viewed on Figure 18. Cross-section B-B' (Figure 19) was constructed to illustrate spatial relationships between these electrofacies.

### Incised-Valley Fill Facies

Valley fill sandstones are the thickest among Upper Skinner Sandstone units. The incised-valley is represented by two separate trends. The first, which is located in T.10N, R.7W., extends approximately five miles and reaches a maximum width of 1.5 miles. The channel is recognized again in T.10N, R.10W. and continues in a northwestwardly direction to the western edge of T.13N., R.14W. This trend extends a little over 32 miles and has widths that range from .75 to 1.5 miles. Sandstone units associated with these trends, are thick, but contain large amounts of interbedded shale. The better developed incised-valley sandstones occur in the northernmost extension of the northwest trend in T.13N., R.14W. An example of a typical incised-valley electrofacies profile from this region can be seen on well #1, Figure 19. This unit contains minimal shale and fills a valley whose base is close to the top of the Lower Skinner Sandstone.

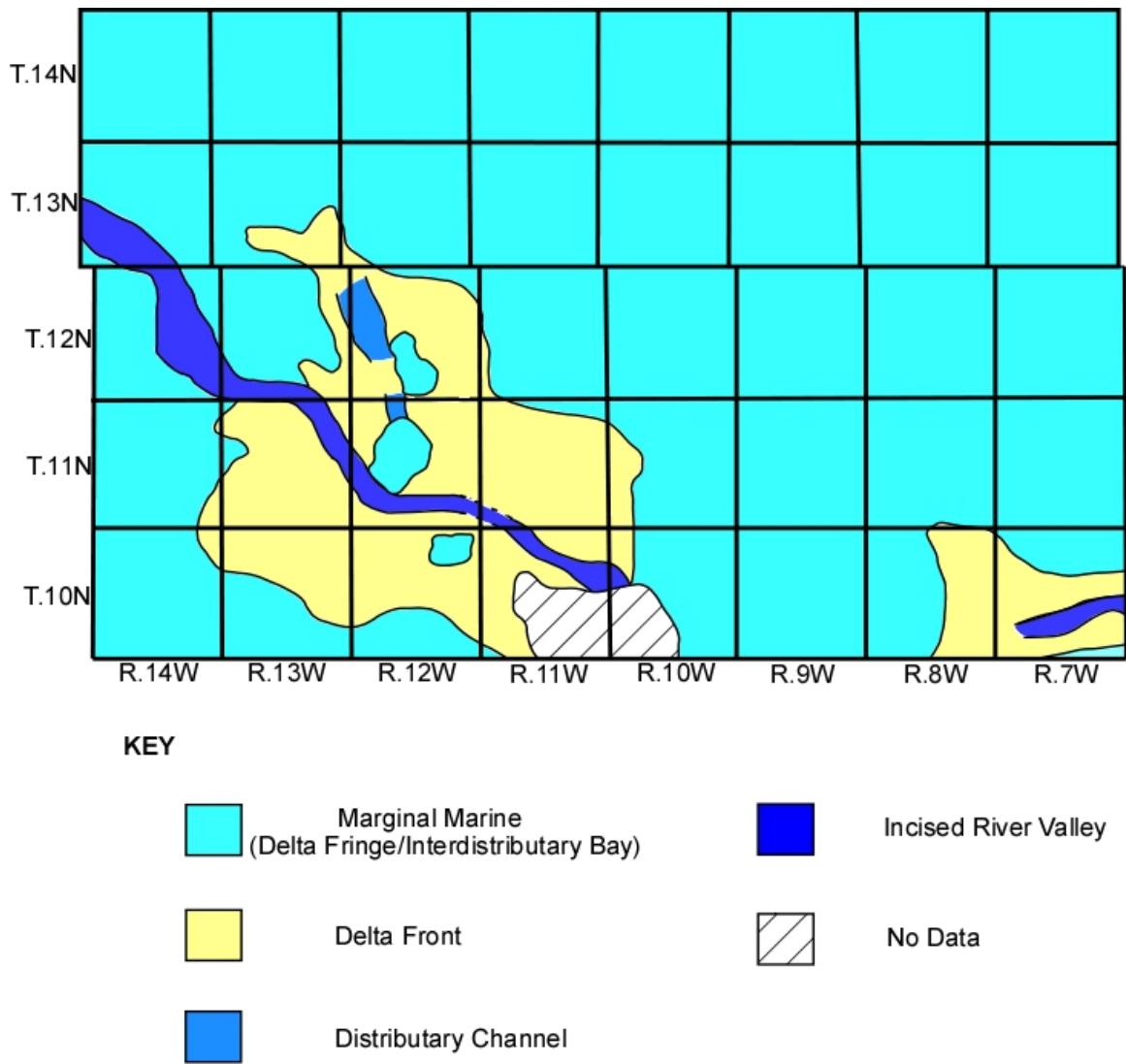


Figure 18. Distribution of electrofacies within the Upper Skinner Sandstone interval.

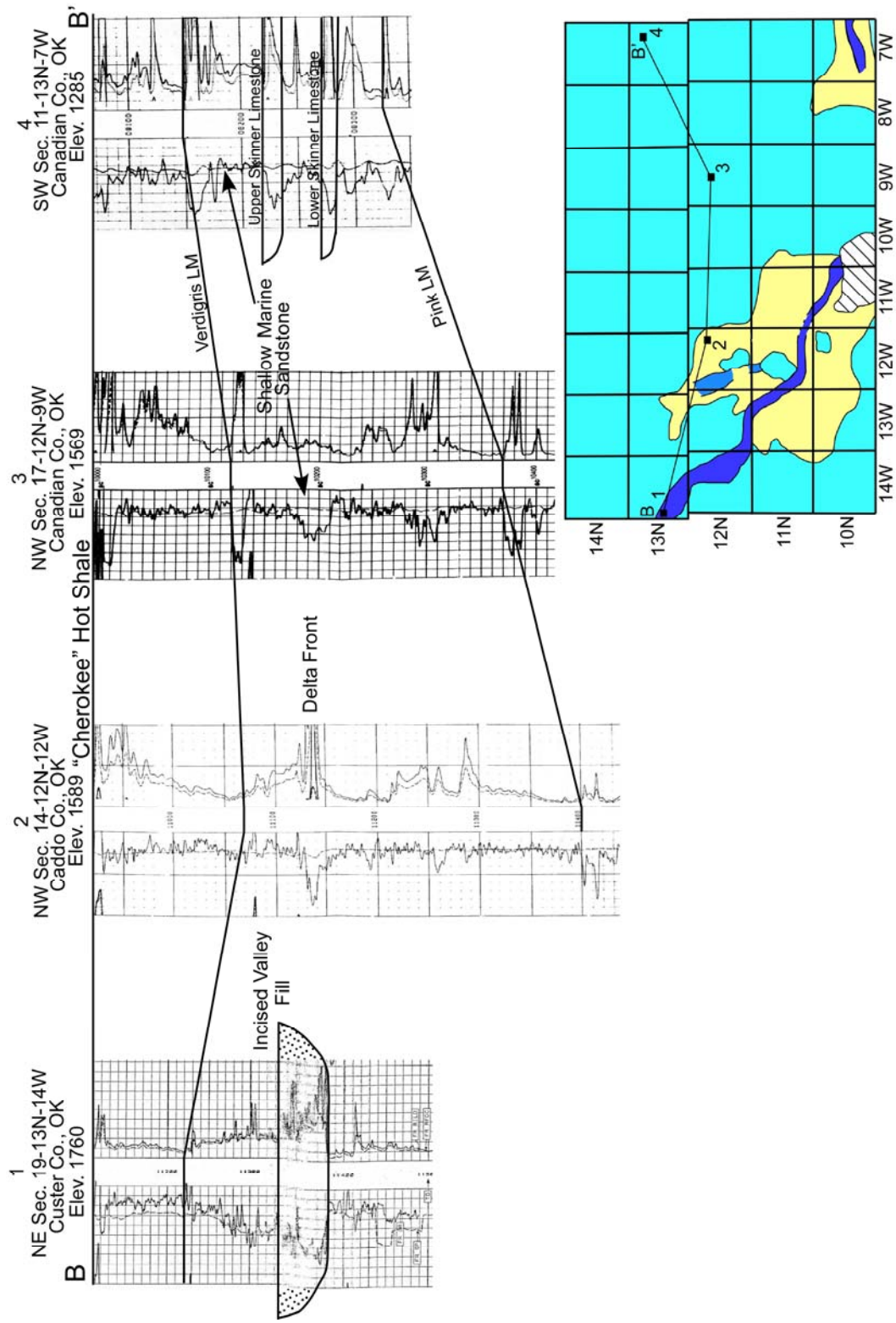


Figure 19. Cross-section showing spatial relationships between environments of the Upper Skinner

When the distribution patterns of the Upper and Lower Skinner sandstones are compared, it becomes apparent that syndepositional subsidence impacted their distribution. The depocenter that was formed as a result of subsidence during deposition of the Lower Skinner sandstone quickly filled with sand and mud. This filling of the Lower Skinner depocenter reduced accommodation and likely contributed to the westward extension of the Upper Skinner sediment dispersal system. During a drop in sea level the deltaic system was incised by the fluvial channel, generating the incised-valley.

#### Distributary Channel Facies

Distributary channel facies account for a very small percentage of Upper Skinner depositional processes. These channels, which are located in T.12N. and T.11N., R.12W., follow the same northwestward pattern as the IVF. The uppermost channel may have been a major distributary, reaching a maximum width of 1.5 miles, but only spanning some 4 miles in length. The lower channel, considered a continuation of the major distributary, runs only a mile in length and reaches a width of a half mile.

#### Delta Front Facies

Delta front deposits are found subparallel and distal to the IVF channels. These deposits trend primarily southeast to northwest, but minor northwest to southeast extensions are noted. Lateral contacts with channel deposits are sharp, whereas contacts with marginal marine facies are gradational. The delta front facies associated with the northwest trending incised and distributary channel deposits span some 22 miles and range in width from 1 to 7 miles. Interpreted channel-mouth-bars associated with the east-west trending channel fill are 9.5 miles in length and contain widths that range from

1 to 6 miles.

### Marginal Marine Facies

The most common interpreted electrofacies and depositional environment for the Upper Skinner sandstone interval is marginal marine deposition, which occurs in the most stable regions of a shelf environment. Distal bar deposits occur throughout the northeast area from T.12N.-T.14N., R.7W.-R.11W., as well as the east-central part of the study area in T.10N.-T.11N., R.7W.-R.10W. Marginal marine environments that are interdispersed within delta front and channel facies may be interpreted as interdistributary bay deposits.

Cross-section B-B' (Figure 14) reveals that shallow marine conditions played an important role in the deposition of the Upper Skinner sands in the northeastern and eastern part of the study area. In well #4 (Figure 19), a thin coarsening upward sandstone unit is recognized. This interpretation is based on the examination of well bit cuttings and photo-electric (PE) curves from selected wells that revealed this unit to be a calcareous sandstone that may represent thin channel mouth bars. Overlying the sandstone unit is a thin limestone that is similar to one that occurs in the Lower Skinner zone. Figure 17A is a depiction of the lateral distribution of the limestone, appropriately named the Upper Skinner Limestone for this study. Well #3 contains another anomalous unit in the Upper Skinner interval that interrupts the continuity of the IVF. This unit has wireline log characteristics including a clean, coarsening-upward, gamma-ray profile, a maximum porosity of 5%, and a PE curve that consistently reads a 5, which is characteristic of a limestone. However, an examination of well bit cuttings revealed that the unit is a calcite-cemented sandstone. This sandstone may represent sediment

reworked by shallow marine processes and redeposited as a highly calcareous “sand”. Figure 17C depicts the distribution of this calcareous sandstone, which reaches a maximum width of 13 miles and extends some 23 miles in T.10N.-T.13N., R.8W.-R.10W.

## Prue Sandstone

### Introduction

The Prue Sandstone is not recognized as commonly as the Skinner sandstones. It is well developed in the southeast from T.10N.-T.12N., R.7W.-R.11W., and to the north in T.12N.-T.14N., R.10W.-R.12W. The Prue Sandstone is similar to the Upper Skinner in that it lacks multistoried development and remains a single persistent unit.

Depositional environments interpreted from electrofacies include: 1.) distributary channel, 2.) delta front, 3.) marginal marine, and 4.) prodelta deposition. Figure 20 illustrates the distribution of interpreted depositional environments for the Prue sandstone. Figure 21 is a cross-section that represents the spatial relationships of electrofacies mapped.

### Distributary Channel Facies

Distributary channel facies are a minor component of the Prue sandstones. These channel deposits occur as discontinuous, short-lived trends that appear to have originated from a northern and southeastern source. These trends may have been connected and part of one major distributary channel system. The southeast-northwest trend contains individual channel deposits that extend 1 to 6 miles in length, and range in width from .5 to 1.5 miles. Well #4 in cross-section C-C’ (Figure 21) displays a distributary channel profile from the southeastern most trend that contains the most distinct fining-upward

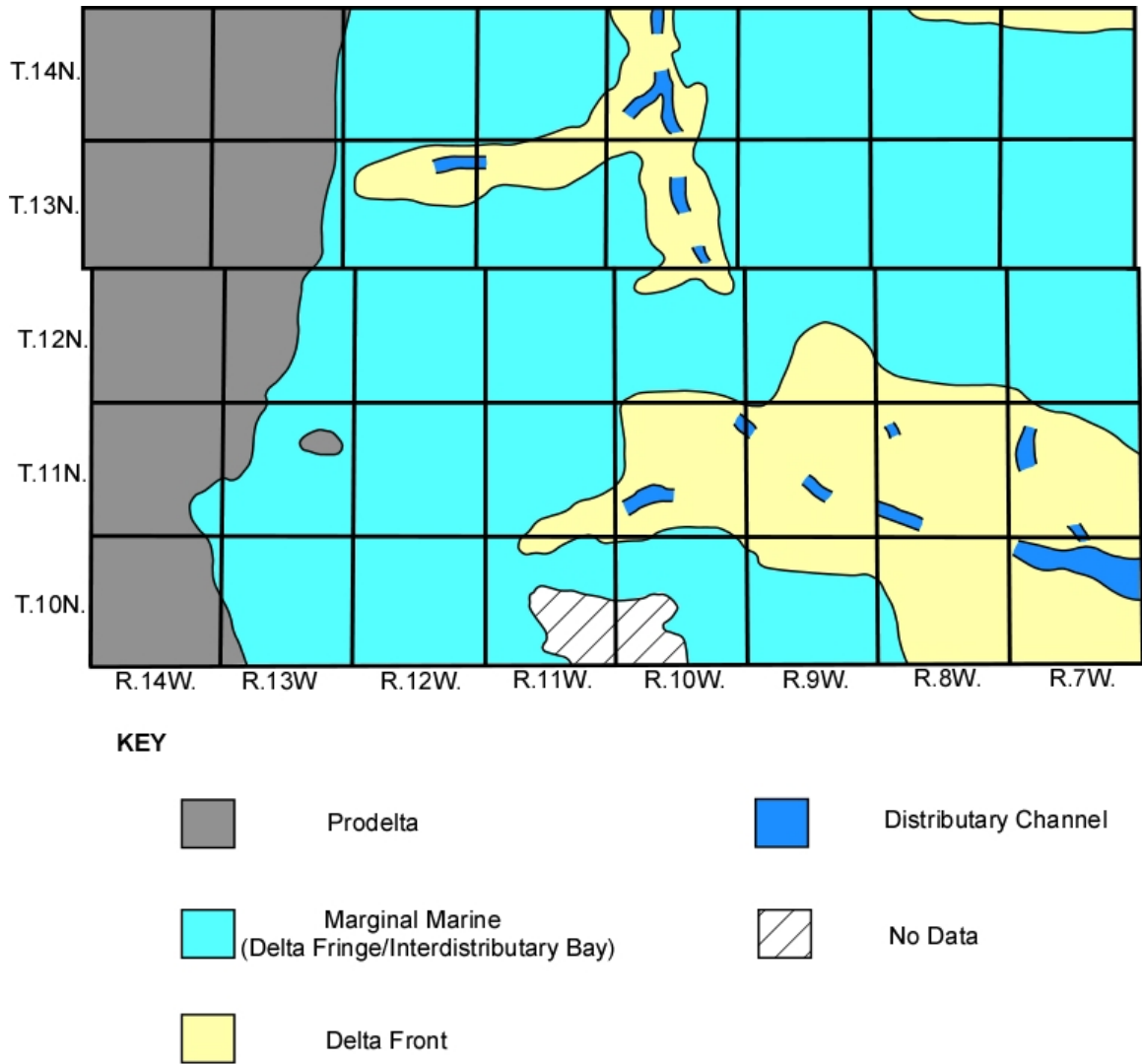


Figure 20. Depositional environments for the Prue Sandstone that were interpreted from electrofacies distributions.



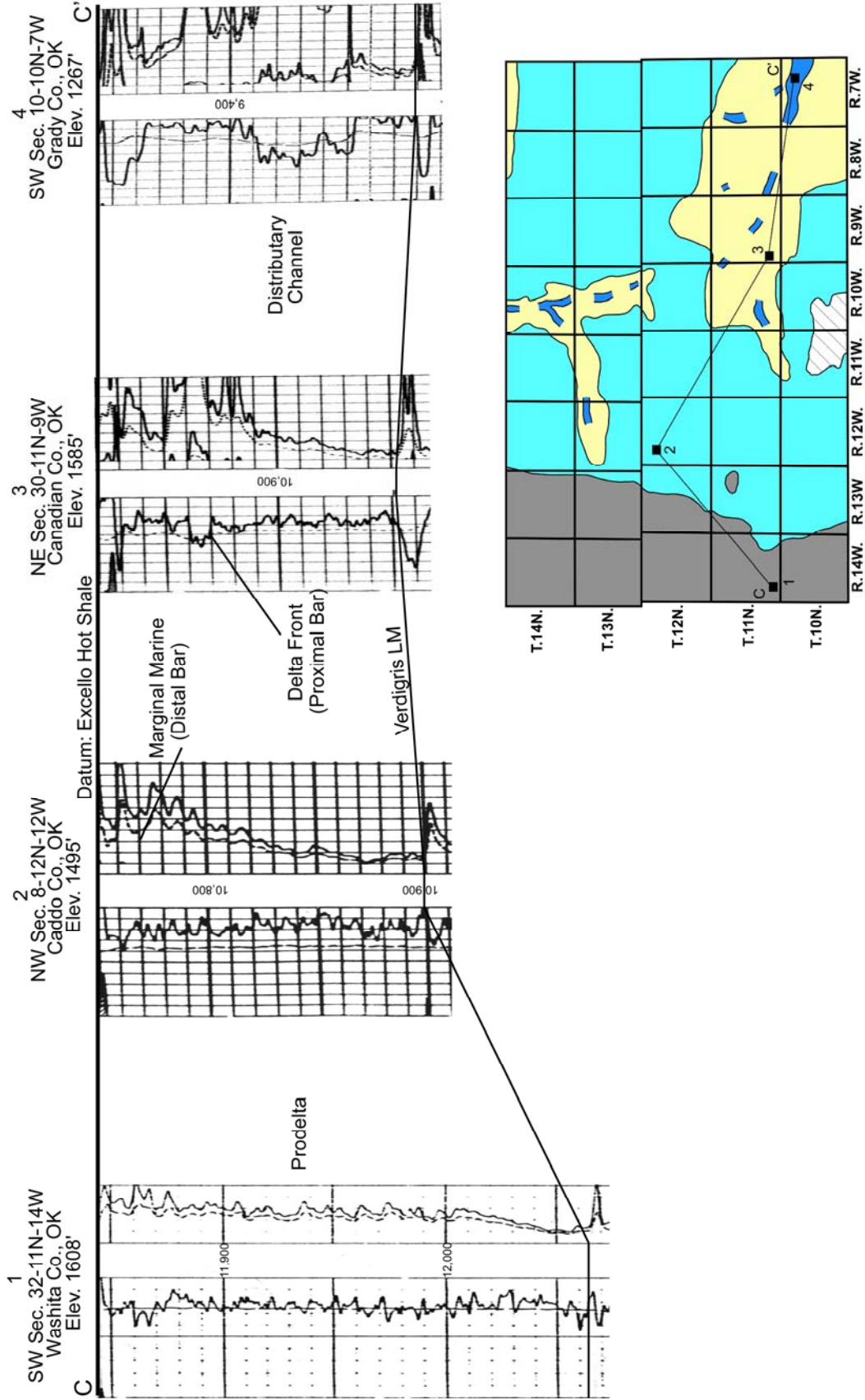


Figure 21. Cross-section showing spatial relationships between environments of the Prue Sandstone.

sandstones. Minor southwest-northeast and north-south trending channel deposits are evidence that they may have connected to the main distributary. The northern distributary complex branches into two separate trends with western and southern directions, respectively. The individual channels associated with both separate trends are 1 to 3.5 miles long and .5 to 1 mile wide.

The distribution patterns of the distributary facies appear to be related to the paleobathymetry and position on the shelf. The absence of incised-valley facies and the discontinuity of the distributary channel deposits infer insufficient sand-sized sediment supply. Without localized subsidence and the development of a depocenter, the Prue “sands” could not accumulate. This area may be on the edge of a lobate deltaic complex whose source lies somewhere to the north or east.

#### Delta Front Facies

Most Prue Sandstone bodies are interpreted as channel-mouth-bars. A typical coarsening-upward delta front deposit of the Prue sandstone is depicted in well #3 in cross-section C-C' (Figure 21). These deposits display primary southeast-northwest and north-south trends with secondary east-west and northeast-southwest trends. The dominant southeast-northwest trend is a lobate body that covers some 23 miles and reaches a maximum width of 12 miles. The north-south trend is more elongated and spans 12.5 miles and reaches a width of up to 6 miles. The significant secondary trends cover 5 to 12 miles in length and range in width from 1 to 3 miles. Lateral contacts for all trends are very gradational.

#### Marginal Marine and Prodelta Facies

Marginal marine facies are the most common form of electrofacies and

depositional environments interpreted in the Prue interval. Distal delta front deposits are common, whereas occasional multistoried, “ratty” marginal marine deposits occur in the southwest in T.10N.-T.11N., R.13W.-R.14W. These deposits gradually grade into the prodelta deposits that characterize the western fringes of the study area. The shale marks the edge of an open marine environment that continued to the west where Prue sandstone development is absent.

## CHAPTER VI

### PETROLEUM GEOLOGY

All information, including interpretations of depositional setting, electrofacies, and sandstone distribution patterns were integrated to construct a working model to explain hydrocarbon productivity of the Cabaniss Group. Most hydrocarbon production is from wells completed in the Skinner sandstones. However, a significant amount of production comes from the Prue Sandstone. Oil and gas fields that produce from the Cabaniss sandstones are part of major Desmoinesian fluvial-deltaic reservoir trends that include the Weatherford, Eakly-Weatherford, Bridgeport, Lookeba, Watonga-Chickasha, Union City, and Richmond-El Reno fields (Figure 22). These oil and gas fields are dominantly stratigraphic traps composed of sandstone bodies encased in shale.

Most wells that produce oil and gas from the Lower Skinner Sandstone are located along the trend of the primary IVF, as well as distributary and channel-mouth-bar deposits. The thickness and overall quality of sandstone of the distributary channels, and the lateral extent of channel mouth bars make these environments exceptional reservoirs. IVF sandstones, when thick and containing minimal interbedded shale, also make high volume oil and gas producing reservoirs. Delta-front sandstone development occurs in the Richmond-El Reno Field, Watonga-Chickasha Trend, and the Union City Field, where the largest percentage of Lower Skinner production resides. Exploration and development along the incised-valley begins in Union City and continues southwest

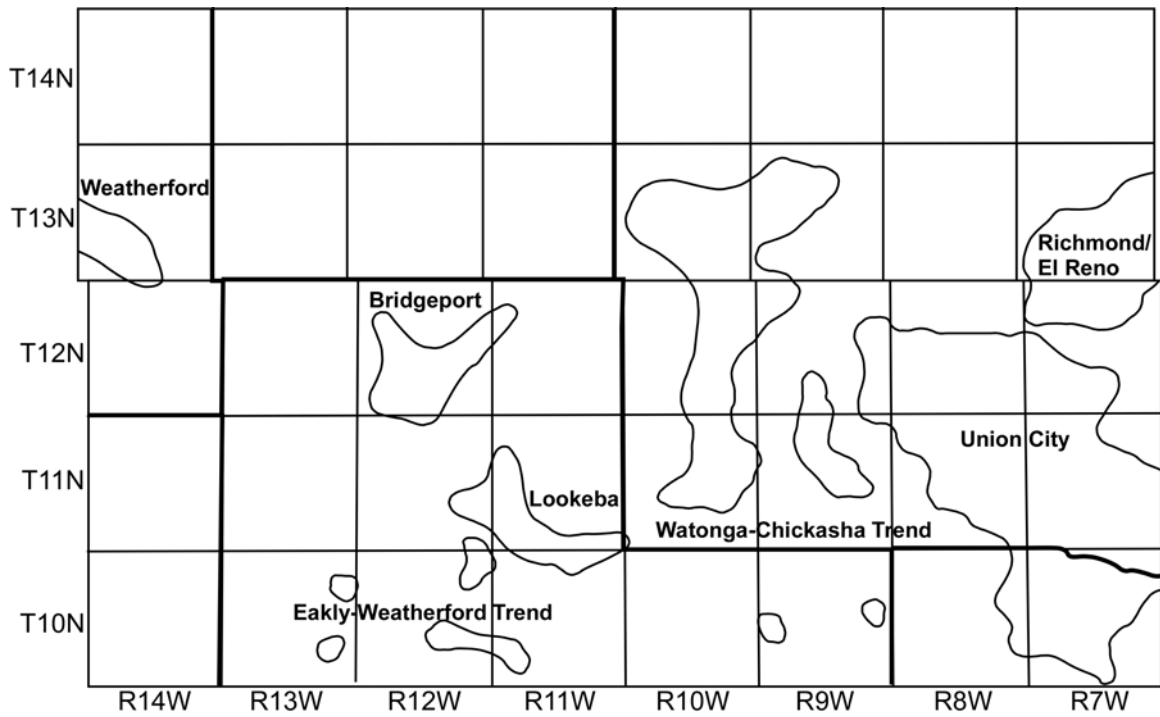


Figure 22. Map representing names and locations of oil and gas fields producing from the Prue and Skinner sandstones.

through the Watonga-Chickasha Trend and into Lookeba Field where the channel abruptly terminates. The fining-upward, interbedded sandstone-shale deposits at the base of the Lower Skinner valley produce small volumes of oil and gas. Production from these units is restricted to four individual pools of the Eakly-Weatherford Trend, which contain one to three wells each. The accumulation of mud along with sands in the main channel likely hindered fluid migration patterns and greatly impacted secondary porosity development. The few economical wells in this field produce from thicker sandstone lenses that are encased in shale, forming isolated traps. The amount of mudrock reduces the likelihood of finding sandstone reservoirs.

Most wells that produce oil and gas from the Upper Skinner Sandstone are located along the primary IVF and related environments. Oil and gas fields producing from these channel deposits include Weatherford, Bridgeport, Watonga-Chickasha, and Union City fields. The uppermost portion of marine re-worked bars is occasionally developed, but constitutes a very small percentage of the volume of oil and gas produced from the Upper Skinner Sandstone. Fields producing from these shallow marine deposits are the Watonga-Chickasha and Richmond-El Reno. Distributary channel deposits account for very little Upper Skinner sandstone bodies, and only Bridgeport field produces from these deposits. Much of the Upper Skinner IVF is interbedded shale and poorly developed sandstone. Production from these interbedded units is limited to the Weatherford and Union City fields where the thickness and overall quality of sandstone is significantly greater. This valley is believed to continue westward where it eventually becomes highly productive in the Moorewood and Strong City fields in western Oklahoma.

The Prue Sandstone does not produce large volumes of oil and gas. Production is confined to the shallow shelf regions of the eastern study area where discontinuous distributary and channel-mouth-bar deposits contain oil and gas. Prue production is reported from the Watonga-Chickasha and Union City fields. Production completely ceases to the west where Prue sandstone is absent.

## CHAPTER VII

### CONCLUSIONS

The absence of core data hindered the interpretation of depositional facies in the study area and prevented the development of a sequence stratigraphic depositional model. However, by using core-calibrated electrofacies of previous studies and interpretations of the single core east of the study area, certain inferences and interpretations are proposed:

1. Cabaniss Group sediments were deposited over a relatively stable shelf environment that experienced subsidence during deposition of the Lower Skinner sands.
2. Core-correlated wireline electrofacies can be used to interpret depositional environments when lithologic data are sparse.
3. The Cabaniss sandstones in the study area represent environments in a lower deltaic plain setting that include: (1) incised-valley fill, (2) distributary channel, (3) delta front, (4) marginal marine, and (5) prodelta.
4. The distribution of fluvial-deltaic Lower Skinner sediments reveals the presence of a localized depocenter that was filled with sand and mud.
5. The lack of accommodation after deposition of the Lower Skinner sediments helped force the Upper Skinner sediment dispersal system to the west.
6. The lack of Prue sandstone bodies infer that sand-sized sediment was deposited to the east or north.
7. Incised-valley fill channels, distributary channels, and channel mouth bars are important Cabaniss Group oil and gas producing reservoirs.



8. Understanding the depositional setting and facies distribution patterns can help predict the location of oil and gas-bearing sandstone bodies.

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APPENDIX A  
CORE ANALYSIS

Texaco, Co.  
Payne No. 17-1  
T.10N., R.5W  
Canadian Co., OK  
Elevation: 1222'

 Cored Interval: Upper Skinner  
Core Depth=8646 -8671'  
Log Depth=8656' - 8681'

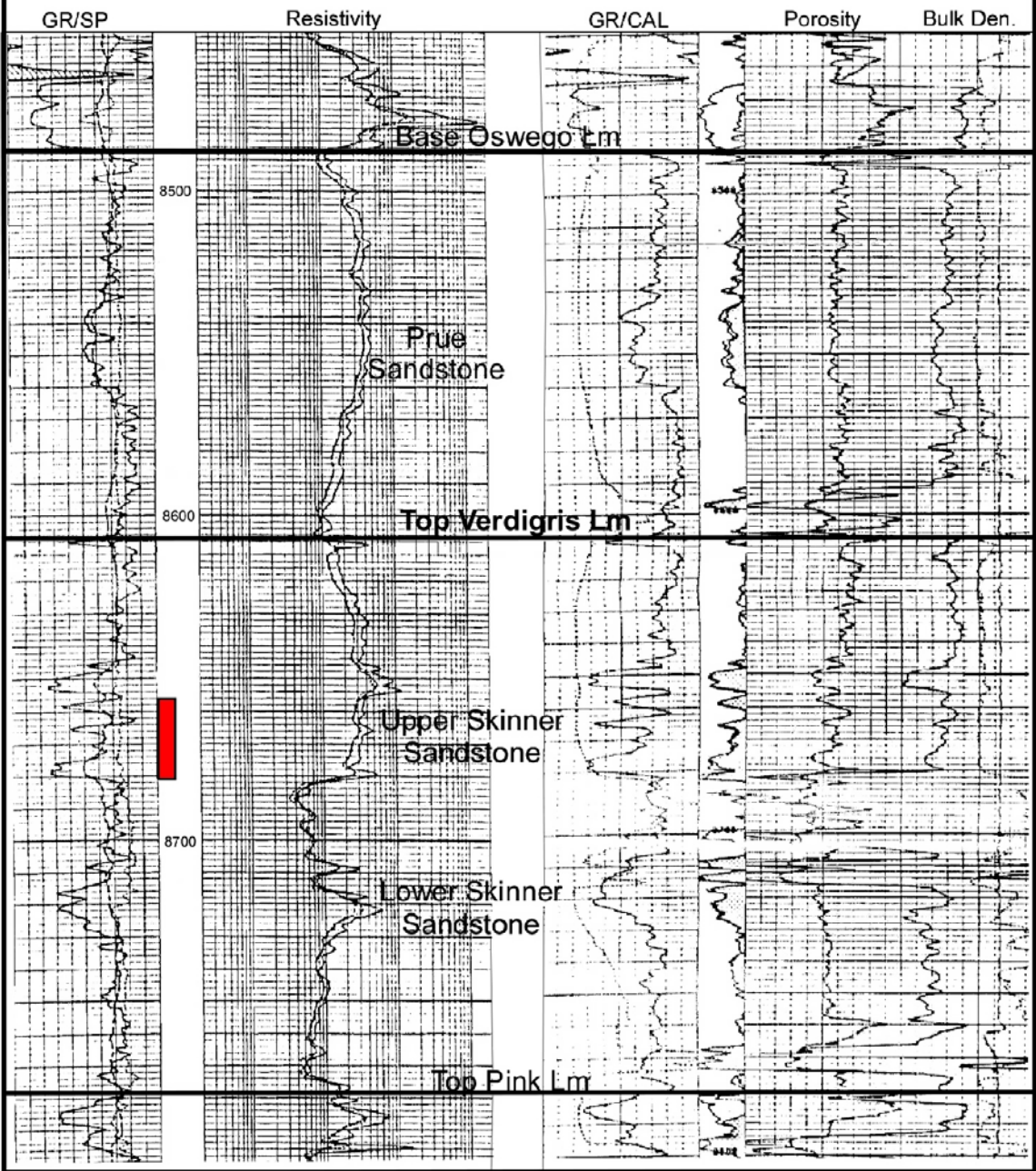





Figure 23. Wireline log for the Texaco Co., Payne No. 17-1.



Texaco Co., Payne No. 17-1  
 Sec. 17-10N-5W

# Petrolog

## Lithology

-  Shale
-  Interbedded Sandstone/Shale
-  Sand/Sandstone



## Bedding-Laminae

-  Horizontal
-  Cross Bedding

## Surface Features

-  Ripple Laminae

## Other Features

-  Contorted Bedding
-  Mud Rip-Up Clasts

## Constituents

- QUARTZ**
  - M-Monocrystalline
  - P-Pllycrystalline
  - C-Chert
  - O-Other
- FELDSPAR**
  - K-K Feldspar
  - P-Plagioclase
  - O-Other
- ROCK FRAGMENTS**
  - M-Metamorphic
  - I-Intrusive
  - V-Volcanic
- CLAY & CARBONATE**
  - C-Clay
  - c-Carbonate
- FOSSILS**
  - Plant
  - C-Carbonaceous Material
  - W-Carbonized Wood
- INVERTABRATES & ALGAE**
  - A-Algae
  - a-Arthropods
- B-Brachiopods
- b-Bryzoans
- C-Cephalopods
- c-Corals
- E-Echinoderms
- F-Forams
- G-Gastropods
- P-Pelecypods
- S-Sponges
- CLAY MINERALS**
  - C-Chlorite
  - H-Halloysite
  - I-Illite
  - K-Kaolinite
  - S-Smectite
  - M-Mixed Layer
  - O-Other
- CARBONATES**
  - C-Calcite
  - F-Ferroan Calcite
  - D-Dolomite
  - f-Ferroan Dolomite
  - S-Siderite
  - O-Other
- SILICA**
  - Q-Quartz
  - M-Micro Quartz
  - C-Chalcedony
- SULFIDES**
  - P-Pyrite
  - O-Other
- SULFATES**
  - G-Gypsum
  - A-Anhydrite
  - B-Barite
  - O-Other
- MICA**
  - M-Muscovite
  - B-Biotite
  - O-Other
- Miscellaneous**
  - ← Thin Section

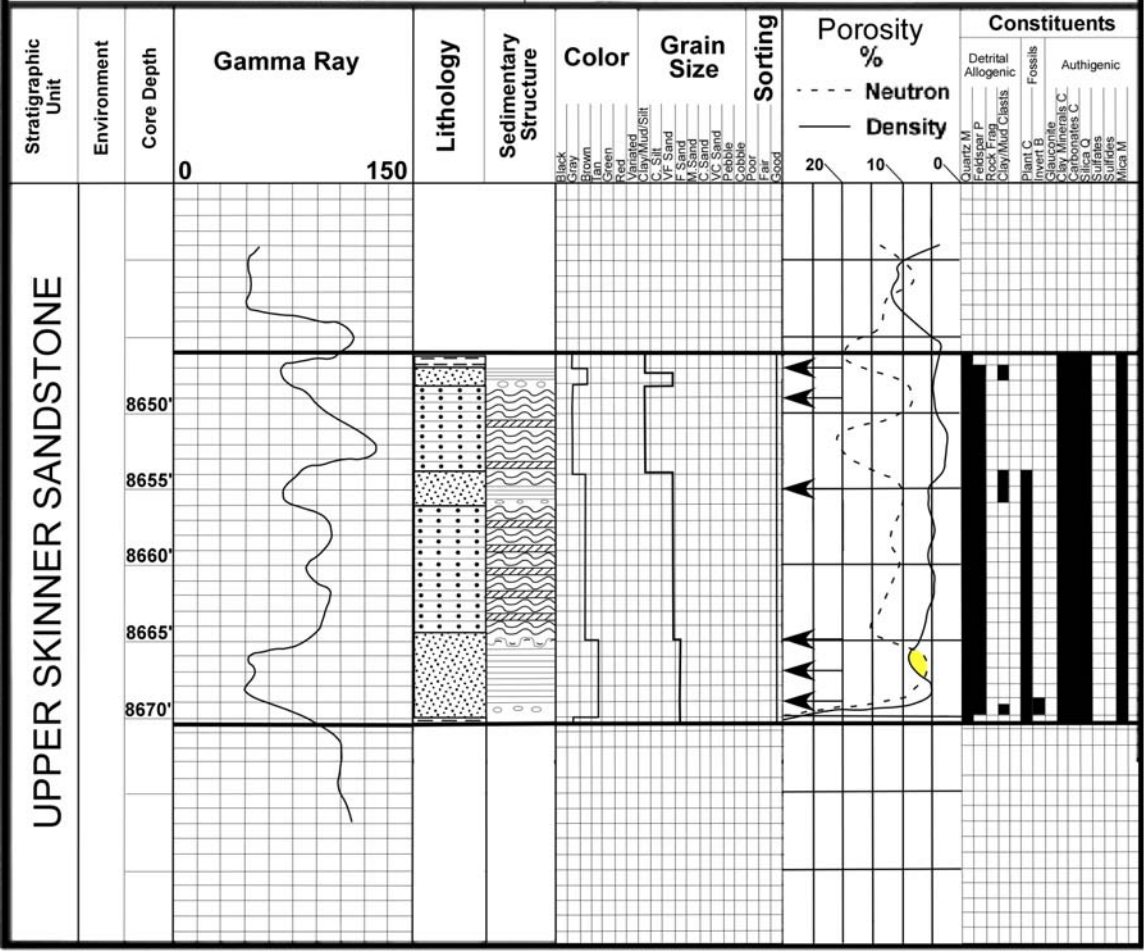


Figure 24. Detailed petrolog for Texaco Co., Payne No. 17-1, Canadian Co., OK.  
 Well: Texaco Co., Payne No. 17-1

Location: Sec. 17, T.10N., R.5W., Canadian Co., Oklahoma

Depth: Core: 8646'-8671'  
Well Log: 8656'-8681'

Stratigraphic Interval: Upper Skinner Sandstone

The cored interval is an overall fining-upward sequence containing sandstone and shale units. The interval consists of three lenticular sandstones that are separated by interbedded sandstone-shale zones. The lowermost sandstone unit lies between 8670.5' and 8664.5' and displays a sharp contact with the underlying shale. The base of this unit is a conglomerate of mud rip-up clasts and fine grained sandstone. The conglomerate grades upward into fine-grained, horizontally bedded sandstone to 8665'. The remaining .5' of sandstone contains trace amounts of carbonaceous debris and deformed bedding caused by flowage. The middle and upper sandstone units contain horizontal bedding and rip-clasts, but appear to have thicker carbonaceous shale layers and an absence of flowage features. The contact with the uppermost sandstone and overlying shale is sharp.

The interval from 8664.5' to 8656' is interbedded sandstone and shale. This interval exhibits wavy bedding and small-scale trough cross-bedding. Sandstones are fine-grained and contain extremely thin, discontinuous shale layers. Shales range in thickness from .2 to .8 inches with the thickest occurring at 8663.5'. The contact with the overlying sandstone layer is very sharp.

The interval from 8654.5' to 8648' is a shale with interbedded, fine-grained sandstone. Sedimentary structures include wavy bedding and small-scale cross-bedding.

The multistoried sandstone and interbedded units of this core (8646'-8671') are interpreted as a channel-fill sequence that overlies prodelta shale. The mud rip-up clasts at the base of each sandstone unit signals high energy processes. During periods of sea



level rise, the channels were filled in with clay-sized sediments. As sea level continued to fluctuate, interbedded intervals developed with wave induced ripple laminae and micro cross-bedding. An increase in shale content and wavy bedding in the uppermost interbedded unit (8653.5'-8648') suggests deeper water conditions. The final sandstone in this cored interval suggests higher energy fluvial conditions that were terminated by flooding that created the sharp contact with the overlying marine shale.

APPENDIX B  
DATA SPREADSHEETS

## ABBREVIATIONS USED IN SPREADSHEET

**EXCHS** = Top of the Excello Hot Shale subsea value

**VERD** = Top of the Verdigris Limestone subsea value

**PINK** = Top of the Pink Limestone subsea value

**PRU TH** = Thickness of Prue GIS (VERD – EXCHS)

**SK TH** = Thickness of Skinner GIS (PINK – VERD)

**DNLS** = Did not log section

**CUT** = Marker cut by fault or incised-valley

**LOST** = Marker undetectable

**NDE** = Not deep enough

**N/A** = Unable to obtain value due to constraints listed above or  
poor quality of well log

<b>WELL NAME</b>	<b>API #</b>	<b>SEC</b>	<b>LOCATION</b>	<b>EXC HS</b>	<b>VERD</b>	<b>PINK</b>	<b>PRU TH</b>	<b>SK TH</b>
<b>10N 7W</b>								
Barbour 1	35017232290000	1	w/2 w/2 se	7874	7998	8217	124	219
Paul Jones 1	35017215740000	1	c nw	7873	7988	8213	115	225
Estes 1	35017237190000	1	e/2 nw se ne	7823	7940	8159	117	219
Bosler 1	35017203780000	2	c nw	7924	8042	8267	118	225
Bosler 2	35017232420000	2	c ne	7931	8046	8279	115	233
Boser 3-2	35017232450000	2	c nw sw	8030	8142	8378	112	236
Ninman 1-2	35017237170000	2	c se se	7964	8086	8314	122	228
Demmer 1-3	35017234320000	3	se ne	7939	8098	8321	159	223
Demmer 1	35017204140000	3	e of c n/2	7989	8095	8331	106	236
Schweinle 1-3	35017233570000	3	c se se	8058	8187	8430	129	243
Schweinle 1	35017231040000	3	sw sw	8093	8216	8451	123	235
White Farms A-1	35017206910000	4	c nw	8176	8277	8522	101	245
White Farms A-4	35017234850000	4	sw ne nw	8175	8274	8514	99	240
White Farms A-5	35017235120000	4	nw/4	8137	8237	8479	100	242
Mason 1-4	35017234760000	4	s/2 se	8129	8259	8493	130	234
L.B. Dolan 1	35017201360000	5	ne ne sw	8249	8367	8626	118	259
Straka 1-5	35017230920000	5	ne/4	8224	8333	8586	109	253
Straka 2-5	35017235450000	5	sw/4	8295	8410	8676	115	266
White Farms B-1	35017208960000	5	sw/4	8244	8361	8619	117	258
Glen 1	35017216040000	6	c nw	8326	8438	8698	112	260
Mason 1	35017232130000	8	c e/2 sw	8340	8466	8715	126	249
Mason B-1	35017214540000	8	nw/4	8291	8423	8681	132	258
Evans D-1	35017209390000	9	nw/4	8263	8385	8607	122	222
Evans D-2	35017231270000	9	nw/4	8556	8684	8935	128	251
Britton Estates 2-10	35017234690000	10	sw	8078	8213	NDE	135	n/a
Britton Estates 1-10	35051210130000	10	se se nw	8156	8291	8531	135	240
Kroeker 1-11	35017231080000	11	ne	8001	8154	8368	153	214
Kroeker 3-11	35017231800000	11	se se ne	8316	8448	8666	132	218
Lagaly 1-11	35017233670000	11	c s/ n/ nw	8064	8207	8445	143	238
Barbour 1-12	35017230970000	12	nw/4	7960	8111	8326	151	215
Barbour 2-12	35017231100000	12	c sw	8011	8145	8354	134	209
Barbour 3-12	35017231110000	12	c nw se	7973	8105	8314	132	209
Warren 1-12	35017229900000	12	ne	7900	8048	8258	148	210
Kathryn 1-13	35051220800000	13	n/ se nw	8034	8183	8394	149	211
Beaty 1-13	35051217760000	13	c ne	7978	8121	8325	143	204
Shane 1-13	35051218090000	13	c se	8045	8195	8411	150	216
Braum 5-14	35051231780000	14	ne	8109	8252	8480	143	228
Braum 1-14	35051220530000	14	nw/4	8134	8280	8504	146	224
Braum 3-14	35051228740000	14	c nw	8148	8292	8520	144	228
Braum 2-14	35051224820000	14	sw	8200	8348	8564	148	216
Tomlin 1	35051208250000	15	ne sw sw	8345	8490	8719	145	229
Braum 2-15	35051229580000	15	ne	8239	8385	8610	146	225
Mason 1	35051207630000	16	c se nw	8464	8611	8848	147	237
Mason 2	35051222000000	16	se	8453	8593	8844	140	251
Mason 1-16	35051201490000	16	ne ne	8333	8467	8704	134	237

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Ventris 1-16	35051229710000	16	sw	8518	8663	8908	145	245
McConnell A-1	35051208750000	17	c se	8556	8699	8957	143	258
Osborn 1	35051207730000	19	c sw	8769	8931	9181	162	250
Schutten 1	35051208510000	20	c se	8608	8766	9011	158	245
Schutten 1	35051208340000	21	c nw	8543	8697	8937	154	240
Gilliland 1	35051221230000	23	n/ s/ nw	8263	8402	8628	139	226
Fehurer 1-23	35051220740000	23	c w/ ne	8226	8365	8589	139	224
Family 1	35051229150000	23	se	8226	8370	8607	144	237
H.L. Walker 1-23	35051221010000	23	sw c/ sw	8249	8387	8633	138	246
W.H. 1-24	35051221770000	24	sw se	8121	8251	8484	130	233
Carol Ann 1-24	35051218100000	24	n/ se	8122	8254	8494	132	240
Johnson Estate 1	35051200030000	24	nw se	8122	8263	8499	141	236
Braum 1	35051206350000	24	ne	8086	8215	8433	129	218
Wallace 1-24	35051219110000	24	e/ sw	8173	8306	8552	133	246
McCormick Unit 1	35051201270000	25	c sw ne	8192	8339	8572	147	233
Osborn 1-25	35051220780000	25	c e/ sw	8239	8395	8615	156	220
McCormick 1-25	35051220050000	25	c se	8199	8344	8571	145	227
Parrott 1	35051220930000	25	se nw	8190	8337	8563	147	226
Cobble 1-25	35051218820000	25	c ne	8156	8296	8536	140	240
Mackey 1-26	35051219320000	26	c ne	8250	8401	8637	151	236
Good 1	35051205320000	27	c sw	8451	8623	8847	172	224
Good 1-27	35051220950000	27	sw sw	8482	8652	8884	170	232
Good Farms 1	35051229480000	27	sw	8417	8581	8813	164	232
Betche 29-A	35051214120000	29	c w/ se	8686	8835	9104	149	269
Chiles 1	35051208310000	30	ne	8754	8922	9184	168	262
McMullen 1	35051209350000	31	sw sw	8868	9032	9295	164	263
Mackey A-1	35051208620000	32	c ne	8717	8870	9141	153	271
Girard 1	35051201260000	33	c ne	8578	8745	9000	167	255
Toll 34-1	35051209680000	34	c se	8544	8727	8957	183	230
Arden Cullen 1	35051002850000	34	nw sw	8571	8736	8986	165	250
Halley 3-34	35051228980000	34	sw	8577	8744	9001	167	257
Bunchfield 1	35051200500000	35	c nw	8427	8580	8822	153	242
Turner 1-36	35051219340000	36	e/2 w/2 ne	8287	8466	8661	179	195
Meyers 1	35051207330000	36	nw	8306	8483	8678	177	195

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>10N 8W</b>								
Straka 1-1	35017219220000	1	se ne	8407	8509	8774	102	265
McComas 'A'-1	35051208520000	3	c se	8627	8739	9011	112	272
Curtis 1	35051209820000	6	c se	8977	9089	9386	112	297
Douglas 1	35051206380000	7	sw	9168	9298	9600	130	302
Bennie Douglas 1	35051207430000	7	nw sw	9136	9261	9562	125	301
Cheek 1	35051201110000	7	c se	9111	9236	9535	125	299
Richardson 8-1	35051208490000	8	c sw	9065	9190	9480	125	290
Hanna 1-9	35051210500000	9	c sw	8921	9043	9341	122	298
Fitzgerald 1-11	35051207070000	11	c nw	8627	8746	9011	119	265
McComas 1-13	35051229970000	13	c nw	8621	8745	9014	124	269
Koerner 1-13	35051211540000	13	ne	8630	8756	8996	126	240
McCaughey 1	35051206640000	14	c ne	8666	8793	9047	127	254
Frey 1-15	35051210330000	15	sw sw	8934	9072	9350	138	278
Doebeli 1	35051208170000	16	c sw	9006	9144	9420	138	276
Curtis 1-17	35051207870000	17	c sw	9136	9267	9556	131	289
Lang 1	35051205700000	18	c w/ nw	9210	9338	9644	128	306
Lang 2	35051208860000	18	c e/	9165	9301	9597	136	296
Willey 1	35051208880000	19	ne	9272	9404	9716	132	312
Hanna Unit 1	35051206030000	19	c nw	9298	9443	9748	145	305
Turkey 1	35051206450000	19	c sw sw	9350	9500	9812	150	312
Goore 1-20	35051208230000	20	c ne	9126	9265	9554	139	289
Wehling 1	35051203580000	21	c se	9136	9278	9576	142	298
Starkey 1-22	35051208990000	22	c sw	9059	9199	9491	140	292
McComas 1-25	35051207120000	25	se nw	8891	9067	9341	176	274
Charlton 1	35051205650000	26	se se	8945	9103	9400	158	297
Wehling 1-27	35051208180000	27	c n/	9087	9237	9528	150	291
Rhodes 1-28	35051209630000	28	c ne	9198	9348	9640	150	292
Whitlow 1	35051208810000	29	c ne	9303	9454	9750	151	296
Spencer 1	35051205870000	30	nw nw	9399	9555	9858	156	303
Anthony 1	35051205500000	30	c sw sw	9514	9678	9979	164	301
Spencer 1	35051200370000	30	se nw	9411	9563	9879	152	316
Hayter 1	35051204610000	31	c sw	9613	9780	10102	167	322
Hayter 1-32	35051211570000	32	c ne	9419	9585	9883	166	298
Little 1	35051204510000	32	c sw	9523	9675	9993	152	318
Little 2	35051208030000	32	sw sw	9557	9734	10040	177	306
State of Oklahoma 1	35051206540000	33	c se	9384	9570	9839	186	269
Boyd 33-1	35051210320000	33	c ne	9332	9495	9783	163	288
Treadway 34-1	35051211210000	34	c w/2	9259	9451	9719	192	268
Evans 1	35051208540000	35	c w/2	9090	9247	9573	157	326
Scott 1	35051208780000	36	c sw	9013	9168	9473	155	305

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>10N 9W</b>								
Armstrong 1	35015210180000	1	nw se	9065	9186	9487	121	301
Standifer 1	35015205950000	1	sw sw	9137	9250	9565	113	315
Gilbert	35015205270000	2	c nw	9118	9238	9550	120	312
Gore 1-2	35015203560000	2	n/2 sw	9187	9310	9635	123	325
Gore 1	35015206540000	2	sw sw	9213	9343	9660	130	317
Pemberton Unit 1	35015203410000	3	c s/2	9263	9388	9713	125	325
Lange Unit 1	35015203490000	4	c ne	9261	9400	9715	139	315
Lockhart 1	35015205680000	5	s/2 nw	9386	9526	9850	140	324
Lopez 1	35015219300000	5	ne ne	9327	9463	9780	136	317
Garrison Unit 1	35015204020000	5	c ne	9336	9479	9790	143	311
Smith 1	35015204810000	6	c nw	9476	9615	9935	139	320
Coates 1	35015206830000	7	c ne	9554	9694	10030	140	336
Westerhausen 1	35015205700000	7	c w/2	9629	9772	10112	143	340
Sanders 1	35015203670000	8	c ne	9467	9609	9940	142	331
Sanders 1-8	35015219280000	8	nw ne	9450	9585	9912	135	327
Stahlman 1	35015203540000	9	c ne	9366	9492	9830	126	338
Gustafson 1	35015203310000	10	c ne	9292	9418	9740	126	322
Gustafson Unit 2	35015217240000	10	c sw	9407	9539	9860	132	321
Gilbert 1	35015203400000	11	n/2 sw	9300	9427	9750	127	323
Gilbert 2	35015207650000	11	s/ s/ ne	9215	9340	9660	125	320
Humphrey 1	35015205030000	12	sw sw	9252	9376	9676	124	300
Cherry 2	35015207370000	13	c ne	9237	9364	9700	127	336
Cherry 1	35015204040000	13	sw/4	9341	9485	9810	144	325
Cherry 1-14	35015203720000	14	c nw	9353	9490	9814	137	324
Darnell Gas Unit 1	35015203460000	15	c ne	9396	9536	9866	140	330
School Land 1	35015000910000	16	c se sw	9575	9715	10055	140	340
State Caddo A-1	35015300660000	16	ne se sw	9574	9714	10054	140	340
State Exxon 1	35015204030000	16	w/2 w/2 w/2 ne	9509	9651	9983	142	332
State Exxon A-1	35015207150000	16	ne ne	9475	9615	9948	140	333
Finch 1-17	35015219650000	17	n n se	9601	9746	10088	145	342
Lee 1	35015204420000	17	c w/2	9643	9789	10135	146	346
Vance B-1	35015204170000	18	c ne	9667	9871	10154	204	283
Salyer 1	35015205870000	19	se se nw	9822	9980	10343	158	363
Lee Unit C-1	35015204710000	20	w/2 w/2 e/2 nw	9710	9858	10208	148	350
Lee "C"-1-A	35015205860000	20	w/2 e/2 nw	9724	9870	10227	146	357
Lee "C" 2	35015207550000	20	c ne	9647	9795	10146	148	351
Gunter 1-20	35015226660000	20	c se	9716	9873	10229	157	356
Belt Unit 1	35015205150000	21	c sw	9692	9836	10182	144	346
Caldwell "A"-1	35015209240000	21	nw nw ne	9599	9739	10084	140	345
Armstrong 22-3	35015225190000	22	nw	9557	9706	10040	149	334
Armstrong Unit 1	35015204260000	22	c ne	9505	9646	9988	141	342
Armstrong 2	35015216900000	22	sw	9595	9735	10083	140	348
Moran Unit 1	35015203630000	23	c nw	9450	9590	9920	140	330
Bashara Unit 1	35015203700000	24	c sw	9402	9558	9872	156	314
Black A-1	35015205760000	25	s/2 s/2 nw	9511	9671	9989	160	318

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Black B-1	35015207390000	25	c nw	9456	9612	9929	156	317
Black 1	35015203040000	25	w/2 e/2 sw sw	9582	9746	10061	164	315
Kelley 2	35015205330000	27	c sw	9731	9893	10236	162	343
Kelley 1	35015204450000	27	c ne	9605	9758	10103	153	345
Kelley B-2	35015217220000	28	sw	9812	9978	10342	166	364
Kelley B-1	35015205120000	28	ne	9716	9873	10223	157	350
Evans-Tinhue Gov. 1	35015204380000	29	s/2 n/2 s/2 ne	9803	9967	10325	164	358
Slover Unit 1	35015207510000	29	c sw	9873	10035	10403	162	368
Alice Coffee 1	35015205880000	30	c sw	9971	10137	10504	166	367
Sahhahnin Estate 1	35015204760000	31	nw	10007	10177	10560	170	383
Newell 1-31	35015223780000	31	c se	10009	10184	10564	175	380
Meyers Unit 1	35015207180000	32	c sw	10007	10178	10553	171	375
Kabriel 3	35015223190000	33	c ne	9817	9987	10354	170	367
Kabriel 2	35015216910000	33	c sw	9953	10131	10496	178	365
Kabriel 1	35015204960000	33	se se nw se	9907	10077	10437	170	360
Oliver 1	35015205710000	34	sw sw ne	n/a	9960	10317	n/a	357
Miller 1	35015203840000	35	c se	n/a	9962	10236	n/a	n/a
Groskopf 1	35015204510000	36	c se	9637	9797	10123	160	326



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>10N 10W</b>								
Tapper 1	35015205570000	1	c ne	9531	9671	9990	140	319
Oklahoma State 1	35015211680000	1	c se	9569	9739	10064	170	325
Blackburn A-1	35015206080000	2	c ne	9639	9786	10118	147	332
Blackburn Unit 1	35015204400000	2	w/2 w/2 e/2 sw	9739	9883	10219	144	336
Haas 1	35015207640000	3	ne ne	9718	9870	10223	152	353
Watson 1	35015208000000	4	c s sw	9880	10027	10400	147	373
Cook Dodson 1	35015200620000	4	nw se nw	9816	9972	10340	156	368
McKay 1	35015209710000	5	c se	9921	10080	10451	159	371
Hatz 1	35015206970000	5	sw	9969	10135	10513	166	378
Saundes 1-6	35015224380000	6	ne	9966	10121	10516	155	395
Baker 1	35015206290000	6	c se	10023	10200	10588	177	388
Crain 2	35015225090000	7	ne	10057	10211	10630	154	419
Crain Unit 1	35015204080000	7	sw	10188	10360	10794	172	434
Opitz Hatz 2	35015207500000	8	c ne	9956	10116	10501	160	385
Hatz A-1	35015207220000	8	c nw	10041	10202	10597	161	395
Blackburn A-1	35015206650000	12	c nw	9725	9862	10204	137	342
Bledsoe 1	35015205160000	13	c ne	9779	9930	10284	151	354
Milburn Anderson 1	35015204320000	15	c ne	9948	10100	10470	152	370
Bloch 1	35015219790000	15	se ne ne	10027	10185	10557	158	372
Dillard 1	35015211330000	15	s/2 n/2 nw	9983	10140	10503	157	363
Raymond Jones 1	35015207680000	16	c sw	10106	10270	10662	164	392
Patterson 2	35015218300000	17	nw	10078	10245	10635	167	390
Scott 1	35015203610000	20	c sw	10287	10448	10873	161	425
Roupe 1	35015209390000	21	c ne	10150	10309	10704	159	395
Bowling 1	35015203550000	21	c sw	10199	10378	10757	179	379
Lovelace 1	35015208220000	22	ne ne se nw	10092	10260	10630	168	370
B.J. Croy 1	35015203050000	22	e e w ne	10066	10234	10602	168	368
Duncan 1	35015208550000	23	c nw	10004	10157	10527	153	370
Duncan 1-A	35015203880000	23	w sw sw ne	10000	10159	10529	159	370
Marti Unit 1	35015300340000	24	nw se	9917	10073	10442	156	369
Milburn Anderson A-1	35015204950000	25	nw nw se nw	10008	10174	10563	166	389
Duncan A-1	35015210010000	26	n/2 s/2 ne	9902	10076	10456	174	380
Duncan 1	35015206430000	26	c n/2 ne	10084	10255	10635	171	380
Cortello 1	35015211820000	27	ne ne se nw	10171	10340	10735	169	395
Turner 1	35015204430000	36	n/2 n/2 s/2 ne	10058	10228	10617	170	389

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>10N 11W</b>								
Morgan 1	35015207210000	1	ne ne sw ne	10051	10215	10623	164	408
Kerr 1	35015203640000	3	c sw ne	10205	10403	10878	198	475
Rosser 1-4	35015216230000	4	w/2 w/2 ne	10310	10482	10946	172	464
Paxton 1	35015203930000	5	n/2 s/2 ne	10373	10547	11020	174	473
Elliot 1	35015210240000	6	c nw nw	10334	10514	11015	180	501
Berger 1	35015210800000	7	e/2 e/2 w/2 se	10535	10722	11234	187	512
State E-1	35015212630000	8	sw sw ne sw	10520	10696	11197	176	501
Rosser 1	35015207380000	8	c ne	10452	10618	11129	166	511
Cook 1	35015202150000	11	c nw nw	10278	10450	10908	172	458
Schimmel 1	35015208480000	11	c ne	10257	10425	10876	168	451
Phifer 1	35015212080000	13	c sw ne	10329	10483	10969	154	486
Carol Sue 1	35015213320000	14	nw se ne ne	10315	10466	10957	151	491
Crane 1	35015214180000	17	nw nw se nw	10581	10771	11281	190	510
Rhoads 1	35015210090000	18	c ne	10565	10765	11283	200	518
Drake 1	35015211830000	28	sw ne sw	10724	10931	11457	207	526
Hunt 1	35015224480000	30	c sw sw	10758	10977	11540	219	563
Larson 1	35015209070000	30	c nw nw	10721	10928	11482	207	554
Virginia 1	35015216340000	31	c s/2 nw	10807	11005	11582	198	577
Barrows 2	35015227110000	31	w/2 nw se	10820	11031	11604	211	573
Barrow 1	35015217150000	31	c sw	10811	11018	11597	207	579
Rozie 1	35015224760000	31	n/2 se se	10829	11044	11611	215	567
King 2	35015227210000	32	s/2 s/2 nw	10763	11016	11572	253	556
King 1	35015209810000	32	c ne	10780	10984	11534	204	550
Stover 1	35015208910000	33	c sw	10785	10990	11538	205	548
Mary Lou 1	35015210500000	34	c sw	10722	10926	11463	204	537

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>10N 12W</b>								
Carol J 1	35015220440000	1	ne sw	10398	10573	11113	175	540
Ruckman 1	35015210100000	1	ne ne sw ne	10371	10538	11079	167	541
Crain 2-A	35015213930000	2	w/2 w/2 w/2 se	10421	10632	11149	211	517
C.A. Smith 1	35015209910000	3	n/2 s/2 se ne	10414	10618	11153	204	535
Gabeheart 1-3	35015220290000	3	c sw	10436	10641	11213	205	572
Carroll 1	35015226160000	4	s/2 se ne	10440	10638	11202	198	564
Ellis Hitt 2	35015220120000	4	s/2 s/2 nw	10416	10621	11181	205	560
Ellis Hitt 1	35015216250000	4	c se	10445	10654	11218	209	564
Blood 1-5	35015213660000	5	ne sw nw se	10352	10567	11135	215	568
Clay 1	35015216950000	5	ne sw sw	10363	10581	11163	218	582
Joyce 1	35015220280000	5	s/2 n/2 ne	10395	10612	11168	217	556
Hart 1	35015215070000	6	c sw	10269	10503	11097	234	594
Stevens 1	35015215080000	7	c sw	10317	10552	11177	235	625
Staley Howerton 1	35015214880000	8	s/2 s/2 s/2 nw	10380	10605	11195	225	590
Sickles 1	35015214800000	9	c sw	10427	10640	11241	213	601
Harold 1-A	35015219830000	10	s/2 n/2 sw	10454	10666	11239	212	573
Cook 1	35015220500000	10	w/2 e/2 nw	10441	10643	11220	202	577
Harold 2	35015224030000	10	ne ne sw	10438	10656	11210	218	554
Peck 1	35015213330000	10	ne ne sw	10392	10615	11162	223	547
Kamm 1	35015209860000	11	c ne	10429	10651	11176	222	525
Clay 1-A	35015215260000	14	w/2 w/2 e/2 sw	10498	10713	11269	215	556
Patton 1	35015214670000	15	s/2 s/2 s/2 nw	10498	10719	11312	221	593
Neva 1	35015220420000	15	ne sw ne	10477	10683	11236	206	553
Hamilton 1	35015217850000	17	ne sw sw	10443	10680	11301	237	621
Stevens 1	35015215710000	17	c nw	10400	10635	11242	235	607
Dean Clay 1	35015225620000	17	sw nw se	10461	10701	11311	240	610
Hamilton 2	35015225350000	17	nw se sw	10459	10691	11313	232	622
Henry Clay 1	35015214610000	17	c ne	10442	10659	11270	217	611
Stevens 1	35015214580000	18	c s/2 ne	10362	10596	11231	234	635
Bear 1	35015210940000	19	c sw	10263	10522	11182	259	660
Bear 2	35015225570000	19	sw ne ne	10448	10677	11334	229	657
Rector 1	35015225520000	20	c nw	10460	10708	11335	248	627
Jennings 1	35015214350000	20	e/2 w/2 sw	10448	10692	11339	244	647
Jennings 2	35015215760000	20	c ne	10480	10725	11335	245	610
Floy Cox 1	35015215140000	21	c ne	10512	10752	11345	240	593
Clay 1-A	35015205140000	21	e/2 se nw	10506	10755	11354	249	599
Nichols 1	35015212590000	22	s/2 n/2 se	10554	10774	11368	220	594
Crain 1	35015224990000	23	c ne ne	10547	10755	11310	208	555
McClain 1	35015213030000	23	s/2 s/2 n/2 sw	10565	10791	11361	226	570
Crain 1	35015216570000	24	sw ne sw	10606	10827	11385	221	558
Clear Ferguson 1	35015215770000	25	n/2 s/2 nw	10659	10885	11455	226	570
Lewis 1	35015211660000	25	c sw	10665	10880	11462	215	582
Peck 4	35015227290000	26	ne sw sw	10599	10817	11428	218	611
J.E. Smith 3	35015224160000	26	s/2 nw se	10610	10835	11427	225	592
J.E. Smith 1	35015213340000	26	c w/2	10577	10797	11401	220	604

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Hamilton 1	35015224580000	26	sw ne nw	10588	10803	11401	215	598
J.E. Smith 2	35015216660000	26	s/2 n/2 ne	10606	10819	11419	213	600
Mogg-Hawkins 1	35015215780000	27	c sw	n/a	10738	11352	n/a	614
Warren King 1	35015211360000	27	c s/2 nw	10578	10805	11391	227	586
Donald Gray 1-28	35015215500000	28	c ne	10516	10762	11363	246	601
Hawkins 1-28	35015227920000	28	sw	10403	10642	11297	239	655
E.L. Young 1-28	35015218780000	28	e/2 w/2 se	10488	10724	11368	236	644
Mogg 3-29	35015227980000	29	se	10288	10535	11199	247	664
Jennings 1	35015208420000	29	w/2 w/2 e/2 sw	10120	10363	11023	243	660
Sears 1-29	35015224850000	29	nw	10278	10522	11199	244	677
Ethel 2-29	35015221000000	29	w/2 nw ne sw	10204	10449	11112	245	663
Ethel 1-29	35015217180000	29	n/2 n/2 sw	10190	10437	11104	247	667
Reynolds 4-30	35015228190000	30	se sw ne sw	9994	10249	10896	255	647
Keck 1	35015205580000	30	c se	9999	10239	10904	240	665
Keck 2-30	35015215950000	30	nw	10082	10348	10999	266	651
Keck "A" 1-A	35015208240000	30	se se nw se	10006	10257	10903	251	646
Lawrence 6-31	35015227810000	31	e/2 e/2 sw	10282	10552	11262	270	710
Sheward 1-31	35015227600000	31	n/2 nw se	10118	10383	11070	265	687
Keck 1-31	35015225210000	31	se	10142	10394	11094	252	700
Larson 1-31	35015223710000	31	se ne	10015	10276	10952	261	676
Larson 1-32	35015208340000	32	c sw	10026	10276	10960	250	684
JCK 7-32	35015227910000	32	se	10206	10474	11169	268	695
Sanborn 1-32	35015217700000	32	c ne	10080	10320	10977	240	657
Sanborn 2-32	35015218810000	32	ne	10051	10301	10957	250	656
King 1-32	35015227500000	32	e/2 ne se sw	10013	10277	10963	264	686
Sanborn 3-32	35015222800000	32	se	10010	10256	10923	246	667
Sanborn 4-32	35015223680000	32	nw	9949	10230	10899	281	669
Phillips 2-33	35015227940000	33	w/2 nw se	10227	10479	11140	252	661
Young 1-33	35015217750000	33	ne	10404	10652	11289	248	637
Clay 1-33	35015223180000	33	nw	10248	10498	11151	250	653
Saunders 1-33	35015223330000	33	sw	10123	10362	11017	239	655
Phillips 1-33	35015209410000	33	sw	10090	10334	10993	244	659
Clear 1-33	35015222600000	33	ne	10403	10636	11286	233	650
Lorene 1-33	35015220140000	33	sw nw	10273	10524	11175	251	651
Patterson 2	35015227230000	34	w/2 ne ne	10561	10800	11420	239	620
Haas Unit A-2	35015216780000	35	nw ne sw	10612	10832	11463	220	631
Haas A-1	35015213520000	35	e/2 e/2 w/2 ne	10639	10861	11461	222	600
Haas 4	35015227360000	35	se nw nw	10615	10843	11454	228	611
Haas 5	35015227250000	35	c nw se	10639	10860	11455	221	595
Haas 3	35015227430000	36	se ne nw	10733	10966	11546	233	580
Haas 1	35015213350000	36	s/2 s/2 s/2 nw	10718	10936	11528	218	592
Haas 4	35015227570000	36	w/2 nw se	10758	10990	11580	232	590

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>10N 13W</b>								
Flansburg 1	3501521280000	1	c sw	10231	10453	11065	222	612
L.H. Flansburg 1-A	35015220030000	1	c ne	10206	10416	11022	210	606
King 1-2	35015215850000	2	sw ne ne	10197	10412	11031	215	619
Lokey 1	35015212140000	2	sw	10249	10472	11115	223	643
Hamilton 1-3	35015213200000	3	c sw	10179	10407	Lost	228	n/a
Cofeen 1	35015209180000	4	sw sw	10086	10305	Lost	219	n/a
Lasley 1-5	35015212430000	5	nw se	10109	10340	Lost	231	n/a
Melton 1-6	35015213430000	6	se sw ne	10221	10461	Lost	240	n/a
Gray 7-1	35015211250000	7	sw sw nw se	10596	10848	11571	252	723
D.G. Williams 1-9	35015211900000	9	se sw ne	10143	10382	11075	239	693
Kardokus 1-10	35015211020000	10	c sw	10089	10325	10981	236	656
Kardokus 2-10	35015224780000	10	se sw ne	10104	10335	11023	231	688
Kardokus 3-10	35015227150000	10	sw ne ne	10164	10408	11071	244	663
Kardokus 4-10	35015227400000	10	nw se nw	10127	10358	11030	231	672
Rosser 1-11	35015227510000	11	nw	10233	10481	11132	248	651
Montgomery 1-11	35015220300000	11	ne	10257	10498	11134	241	636
George Lasley 1	35015212340000	11	c sw	10168	10400	11078	232	678
G.W. Lasley 2	35015215630000	11	sw	10192	10427	11105	235	678
Flansburg 1	35015211280000	12	c sw	10294	10515	11174	221	659
Kardokus 1-12	35015215120000	12	c ne	10238	10472	11086	234	614
Oklahoma State 1-13	35015211590000	13	sw	10256	10506	11174	250	668
Gill 1-13	35015218460000	13	c se	10353	10598	11273	245	675
Alley Cat 1-14	35015227120000	14	nw	10130	10379	11070	249	691
Tiger 1	35015210780000	15	n/2 n/2 sw	10208	10449	11167	241	718
Tiger 2	35015227280000	15	c n/2 n/2 ne sw	10150	10395	Lost	245	n/a
Old Timer 1	35015210990000	16	c ne	10271	10519	Lost	248	n/a
Talkington 1	35015211630000	17	w/2 e/2 w/2 ne	10633	10888	Lost	255	n/a
Brooks 1-18	35015217550000	18	nw	10660	10910	Lost	250	n/a
Verna Mae 1-18	35015219700000	18	sw	10669	10897	11669	228	772
Sipe 1-19	35015218030000	19	c nw	10690	10940	11720	250	780
Adams 1-19	35015211260000	19	c sw	10682	10959	11737	277	778
Running Bear 21-1	35015211000000	21	c ne	10637	10892	11668	255	776
Hughes 1-22	35015211290000	22	sw nw	10298	10560	11282	262	722
Ruth 1	35015208250000	23	c e/2	10096	10350	11044	254	694
Cook 1	35015217530000	24	w/2 e/2 ne	10276	10531	11209	255	678
Phiffer 1	35015206820000	24	c se	10129	10379	11050	250	671
Davidson 1-25	35015213440000	25	ne se nw	10058	10307	NDE	249	n/a
Raymond Cox 1	35015209160000	25	c s/2 n/2 se	10064	10316	11014	252	698
Clear 1	35015208540000	26	c ne	10316	10578	11311	262	733
Vincent 1-27	35015213000000	27	sw	10756	11030	11814	274	784
Moore 1	35015207890000	28	se	10795	11063	11849	268	786
Bar D-1	35015208380000	36	c ne	10265	10507	11245	242	738
Aaron 1	35149201530000	2	c nw	10353	10549	11202	196	653
Elizabeth 1	35149205150000	3	ne se sw	10367	10584	11297	217	713
Francis 1	35149205400000	4	ne se sw	10404	10655	Lost	251	n/a

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Lasley 1-4	35149201900000	4	sw ne	10362	10593	11277	231	684
Mildred 1-5	35149205480000	5	c s/2 ne	10454	10703	11406	249	703
Bessie 1	35149205330000	5	c se	10465	10721	11434	256	713
Lowry Brothers 1	35149205540000	8	e/2 w/2 ne	10499	10749	11481	250	732
Shipp Visor 1	35149205190000	9	ne	10409	10666	11369	257	703
Melton 1	35149205000000	10	sw ne ne	10377	10616	11324	239	708
Bar Lazy B-1	35149204720000	11	c nw se	10463	10707	11407	244	700
Rosella 1-12	35149205430000	12	ne sw sw	10509	10753	11465	244	712
Kidd 13-1	35149201680000	13	sw	10540	10785	11520	245	735
Brogan 1-14	35149204860000	14	ne	10478	10723	11449	245	726
Seger School 2	35149205420000	15	sw ne ne	10420	10664	11392	244	728
Seger School 1	35149202000000	22	ne sw	n/a	10831	11605	n/a	774
Margaret 1-24	35149205290000	24	w/2 w/2 ne	10622	10881	11652	259	771

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 7W</b>								
Ed Cooksey 1	35017200670000	2	c ne sw	7476	7565	7768	89	203
Jenson 2	35017211130000	2	se	7461	7550	7744	89	194
Crookham 1-3	35017224450000	3	c ne	7440	7531	7741	91	210
Rund 2	35017228010000	4	c s/2 se	7629	7724	7943	95	219
Rund 1-4	35017225900000	4	ne/4	7588	7673	7893	85	220
Porter 4	35017231920000	5	c sw	7673	7753	Cut	80	n/a
Porter 5-5	35017236590000	5	nw nw	7651	7739	7968	88	229
Porter 1	35017223350000	5	c ne nw	7610	7700	7913	90	213
Porter 2-5	35017227650000	5	w/2 ne ne	7592	7682	7897	90	215
Smith 2-6	35017235010000	6	ne/4	7713	7799	8034	86	235
Wittkopp 1	35017206650000	6	c sw	7785	7873	8115	88	242
Six Mile Creek 1-6	35017232430000	6	sw nw se	7752	7837	Cut	85	n/a
Smith 3-6	35017235430000	6	se/4	7741	7825	8104	84	279
Meyer 1-6	35017232000000	6	c s/2 nw	7739	7825	Cut	86	n/a
Smith 4-6	35017236000000	6	nw sw se	7777	7863	Cut	86	n/a
Kirby 1-7	35017233930000	7	se/4	7856	7938	8181	82	243
Estes 1-7	35017236910000	7	sw/4	7854	7940	8182	86	242
Ricketts 2-7	35017235530000	7	ne sw nw ne	7775	7865	8103	90	238
Mathies A-1	35017208060000	7	nw ne sw	7858	7936	8172	78	236
Ricketts A-1	35017215070000	7	ne	7791	7875	8109	84	234
Coit 3-8	35017233640000	8	c se nw	7745	7830	8067	85	237
Meyers 1	35017207060000	8	sw	7849	7936	8173	87	237
Coit 1	35017205770000	8	se	7813	7891	8135	78	244
Peters 1-9	35017228020000	9	n s ne	7695	7784	8021	89	237
Peters 2	35017223730000	9	se se	7761	7842	8122	81	280
Peters C-1	35017206120000	9	w w w se	7762	7850	8094	88	244
Pettigrew B-1	35017215920000	10	c ne	7571	7656	7869	85	213
Wilkerson 1-11	35017230460000	11	c nw	7563	7653	7859	90	206
Meyer 1-12	35017209610000	12	c nw	7475	7563	7771	88	208
Kirby 1-14	35017207860000	14	c sw	7653	7738	7956	85	218
Hyer 1-15	35017229500000	15	c sw sw	7769	7856	8086	87	230
Wiedemann 1-15	35017235830000	15	e ne se sw	7713	7801	8029	88	228
Gardner 1	35017227860000	15	se	7664	7753	7978	89	225
Pettigrew A-1	35017207270000	15	nw	7714	7796	8031	82	235
Conner 1	35017204880000	16	c e e sw	7834	7916	8145	82	229
Conner 3-16	35017230760000	16	se	7781	7871	8105	90	234
Conner 4	35017233650000	16	nw sw	7821	7901	8128	80	227
Oklahoma Brick 1	35017227290000	17	n/2 se	7850	7934	8154	84	220
Ninman 3	35017234260000	17	se/4	7870	7953	8186	83	233
Fedderson 4	35017234360000	17	nw nw	7927	8012	8262	85	250
Ninman 5-17	35017234450000	17	nw	7917	7999	8243	82	244
Trexler 1	35017205430000	17	ne	7870	7952	8194	82	242
N.W. Union City 1	35017201330000	17	sw se	7888	7980	8217	92	237
Ninman Unit 1	35017232390000	17	nw	7883	7967	8223	84	256
Ninman 6	35017236220000	17	n/2 s/2 sw	7931	8016	8261	85	245

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Fedderson 1-18	35017234230000	18	ne/4	7925	8012	8261	87	249
Zum Mallen Unit 1	35017206780000	18	c sw	7995	8077	8321	82	244
Fedderson 1-19	35017234940000	19	ne ne	8003	8087	n/a	84	n/a
Stephens 1-19	35017234200000	19	c se	8064	8153	8400	89	247
Seigfried 20-1	35017207870000	20	c sw	8015	8105	8351	90	246
Michalika 1	35017203620000	21	se	7865	7960	8190	95	230
Schieber 1	35017203840000	21	ne	7824	7909	8140	85	231
Schieber 2-21	35017231910000	21	sw	7837	7922	8154	85	232
Lagaly 1-22	35017229570000	22	nw sw se	7749	7846	8070	97	224
Pressley Peters 1	35017203120000	22	sw sw ne sw	7809	7905	8138	96	233
Alger 2	35017233880000	22	se nw nw	7789	7873	8103	84	230
Boevers 1	35017204430000	23	sw/4	n/a	7806	8034	n/a	228
Lagaly 1	35017215390000	24	c sw	7609	7704	7920	95	216
Graham 1	35017207850000	26	s/2 s/2 nw	7773	7871	8096	98	225
Hill 2	35017231210000	27	e/2 e/2 sw	7840	7940	8168	100	228
Hill 1	35017202750000	27	se nw	7829	7929	8154	100	225
Union City 1	35017232580000	27	e/2 sw nw sw	7883	7994	8225	111	231
Union City 1	35017202870000	28	c sw ne	7948	8054	8296	106	242
Union City C 1	35017232330000	28	nw ne se se	7938	8046	8288	108	242
Union City B-1	35017204940000	28	se	7994	8094	8338	100	244
Carel 1	35017208330000	29	c nw	8071	8171	8418	100	247
Gatz 2	35017234600000	30	se/4	8182	8282	8535	100	253
Gatz 1	35017200800000	30	c ne	8132	8222	8476	90	254
Bolinger 1	35017201320000	31	ne se nw	8257	8357	8607	100	250
Bollinger 1-31	35017207880000	31	c nw	8262	8357	8608	95	251
Hunt 1-31	35017235590000	31	se/4	8273	8385	8645	112	260
Woods 1	35017206130000	32	c se se	8209	8304	8556	95	252
Dries A-1	35017204780000	33	ne sw ne	8042	8138	8374	96	236
Dries A-2	35017230680000	33	sw/4	8088	8190	8424	102	234
Dries A-3	35017232440000	33	nw/4	8094	8196	8434	102	238
Dries 4-33	35017234800000	33	e/2 ne sw sw	8161	8263	8503	102	240
Dries 1	35017203340000	34	se nw	7914	8023	8249	109	226
May Dries 1	35017224190000	34	nw nw	7947	8057	8291	110	234
Dries 2-34	35017226830000	34	sw nw	7958	8060	8298	102	238
Albers 1-34	35017235920000	34	sw/4	7952	8075	8308	123	233
Hollywood-Dries 34-2	35017233870000	34	se nw ne	7873	7979	8201	106	222
Warren 1	35017223850000	35	c se	7849	7959	8190	110	231
Bosler 1	35017202860000	35	c se nw	7839	7941	8157	102	216
Klepper 1	35017230220000	36	c se	7781	7896	8108	115	212



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 8W</b>								
Porter 1	35017208690000	1	w c se	7811	7899	8139	88	240
Porter 1-A	35017232050000	1	nw/4	7788	7875	8118	87	243
Blanc 1-1	35017231760000	1	c ne ne	7739	7825	8062	86	237
Porter 1-2	35017207190000	2	c se	7923	8015	8239	92	224
Hoffman 1	35017201680000	4	se nw	8150	8246	8503	96	257
Hoffman 1-5	35017208170000	5	c se	8246	8352	8582	106	230
Marie Smith 1	35017211530000	6	c se	8378	8485	8708	107	223
Chiles Trust 6-1	35017236110000	6	sw/4	8426	8538	8805	112	267
Petree 1	35017209070000	7	c ne	8422	8533	8800	111	267
Petree 3-9	35017237530000	9	ne/4	8196	8296	8550	100	254
Petree 1-9	35017209190000	9	sw/4	8297	8390	8638	93	248
Petree 2-9	35017228830000	9	c se	8224	8324	8568	100	244
McDaniels 1	35017208940000	10	c sw	8162	8247	8502	85	255
Dittmer 1-10	35017236550000	10	se/4	8111	8196	8441	85	245
McDowell 1	35017237380000	11	n/2 n/2 sw	8045	8135	8376	90	241
Fedderson Williams 1	35017207350000	11	c se	7983	8064	8310	81	246
Pappe 1-12	35017236010000	12	se/4	7913	7994	8234	81	240
Haynes 1-12	35017235740000	12	ne/4	7869	7960	8198	91	238
Von Tunglen 1	35017206980000	12	c sw	7934	8014	8256	80	242
Hurst A 1	35017208750000	13	c sw	8052	8130	8387	78	257
Fedderson 1	35017000560000	14	c sw ne	8018	8102	8347	84	245
Fedderson 2-14	35017224280000	14	c ne nw	8128	8217	8468	89	251
Berry 1-15	35017225960000	15	c sw	8257	8355	8614	98	259
Robinson 1-15	35017234660000	15	c se	8202	8304	8540	102	236
Rund 1	35017207520000	15	c ne	8128	8219	8464	91	245
Bollinger 2	35017227260000	16	c se	8363	8468	8738	105	270
Jenson Farms 1	35017236480000	16	sw/4	8413	8513	8778	100	265
Bollinger 1	35017208180000	16	e/2 e/2 w/2 ne	8306	8406	8662	100	256
Petree 1-17	35017209380000	17	w/2 e/2 w/2 ne	8399	8498	8755	99	257
Petree Ranch 1-18	35017000110000	18	c se se	8561	8672	8950	111	278
Petree 1	35017203520000	19	c sw	8634	8740	9026	106	286
Petree 1-19	35017226490000	19	c w/2 nw	8632	8750	9035	118	285
Kolar 20-2	35017235150000	20	w/2 e/2 se	8518	8613	8888	95	275
Kolar 1-20	35017209590000	20	c e/2 se	8512	8606	8878	94	272
Elkins 1-21	35017235900000	21	sw/4	8417	8511	8779	94	268
Martha 1-21	35017225020000	21	c nw nw	8467	8568	8843	101	275
Kroeker 1	35017209300000	21	e e e nw	8413	8507	8773	94	266
Erbar 1	35017225110000	21	c ne ne	8366	8465	8731	99	266
Bollinger 22-1	35017208850000	22	c ne	8258	8348	8600	90	252
Jonas 2-23	35017233610000	23	c sw	8260	8353	8613	93	260
Jonas 3-23	35017234460000	23	c nw	8216	8329	8562	113	233
Jonas 1	35017208080000	23	c ne	8155	8244	8508	89	264
Sweeney 2-24	35017233580000	24	c s/2 nw	8157	8242	8499	85	257
Anderson 1	35017208250000	25	c nw	8237	8327	8590	90	263
Bollinger 2-26	35017235470000	26	w/2 e/2 nw	8313	8408	8660	95	252

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Bollinger A-1	3501721000000	26	c ne	8289	8381	8644	92	263
Jerald 1	35017209640000	27	c ne	8377	8470	8735	93	265
Hannah 1-28	35017210670000	28	c w/2	8562	8683	8954	121	271
Carl 1	35017210910000	30	sw/4	8729	8827	9104	98	277
Girard 1	35017213070000	31	c ne	8756	8857	9148	101	291
Hale 1-32	35017217470000	32	c nw	n/a	8828	9116	n/a	288
Kuykendall A-1	35017221870000	35	c ne	8388	8489	8750	101	261
Anderson 1-36	35017210140000	36	nw/4	8339	8439	8705	100	266
Morrison 1-36	35017227390000	36	ne/4	8315	8414	8678	99	264

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 9W</b>								
Condry 1	35017211510000	1	c se	8489	8608	8880	119	272
Robinson 1	35017203490000	2	c sw	8573	8688	8956	115	268
Robinson 1	35017205370000	2	c sw sw	8590	8710	8970	120	260
Reuter 1-3	35017235180000	3	se/4	8603	8719	8987	116	268
Kostruha 1	35017201750000	3	nw/4	8635	8754	9039	119	285
Hamley Unit 1	35017201630000	4	c sw	8723	8846	9132	123	286
Hamby 2-4	35017235310000	4	n se	8673	8794	9083	121	289
Lacy 1	35017201450000	5	c sw	8776	8931	9226	155	295
Lacy 3-5	35017233750000	5	ne ne	8686	8811	9092	125	281
Paul Lacy Unit B 1	35017201870000	6	ne/4	8812	8949	9237	137	288
Lacy B-3	35017234590000	6	c ne nw	8870	9011	9300	141	289
Davison 1-7	35017205560000	7	sw/4	8990	9108	9410	118	302
Earles 1-8	35017236510000	8	nw/4	8888	9022	9318	134	296
McKinney Unit 1	35017201400000	8	c ne	8801	8934	9211	133	277
Earles Unit 1	35017201340000	9	c sw	8835	8965	9235	130	270
Thomas A-1	35017201610000	10	c sw	8732	8867	9142	135	275
Hanneman 1	35017204960000	11	w/2 nw	8639	8750	9011	111	261
Hanneman 2	35017235220000	11	ne	8641	8765	9037	124	272
Petree 1	35017203960000	13	c sw	8665	8780	9055	115	275
Petree 1-13	35017220620000	13	c s sw	8684	8784	9068	100	284
Hickman Unit B-1	35017202360000	14	c sw	8742	8865	9126	123	261
Hickman Unit 1	35017201410000	15	c s nw	8799	8925	9203	126	278
Hickman Unit 2	35017228100000	15	e sw	8809	8924	9204	115	280
Thomas 2	35017201660000	16	c ne	8842	8954	9238	112	284
State of Oklahoma 1	35017227450000	16	se/4	8897	9017	9304	120	287
Thomas Unit 1	35017201250000	16	c se nw	8883	9000	9284	117	284
McBee 1	35017234730000	17	c se	8956	9089	9384	133	295
Barrett Unit 1	35017202020000	17	c nw	9037	9156	9401	119	245
Lockhart 1	35017236260000	17	nw/4	9316	9447	9731	131	284
Wilkerson 1	35017206380000	17	c sw	9040	9169	9475	129	306
Wilkerson 2	35017207630000	17	c sw sw	9050	9192	9498	142	306
Evans-Larson 1	35017206630000	18	nw ne sw sw	9163	9293	9608	130	315
Barrett A-3	35017232210000	19	c se	9236	9340	9640	104	300
Barrett A-2	35017222020000	19	c ne nw	9215	9360	9680	145	320
Barrett A-1	35017204550000	19	c nw	9466	9606	9756	140	150
Barrett 4	35017235330000	19	c sw sw	9258	9395	9704	137	309
Hoebner 1	35017234670000	20	ne	9029	9166	9462	137	296
J.C Carroll 1	35017205910000	20	c nw	9083	9231	9518	148	287
McBee 1	35017235260000	21	nw	8971	9124	9410	153	286
Niles 1	35017230860000	21	c se se	8978	9111	9397	133	286
Willard 1	35017202220000	21	c ne nw	8906	9050	9350	144	300
Meiwess 2	35017206390000	21	c se	8955	9087	9371	132	284
Meiwess 1	35017204610000	21	c sw	9012	9132	9416	120	284
Hickman A-2	35017222420000	22	c ne	8822	8942	9222	120	280
Hickman A-1	35017201460000	22	e/2 nw	8847	8977	9261	130	284

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Eischen 2	35017234810000	23	ne	8743	8856	9151	113	295
Eischen 1	35017201910000	23	c nw	8802	8920	9200	118	280
Hufnagle 1	35017202940000	24	c w/2	8740	8848	9132	108	284
Petree 1	35017214610000	24	sw	8719	8833	9115	114	282
Miewes 1	35017203290000	25	c n/2	8745	8859	9136	114	277
Erwin 1	35017213870000	25	c se	8799	8899	9188	100	289
Hatcher 1	35017201850000	26	sw	8933	9054	9341	121	287
Miewes 1	35017202640000	26	c nw	8865	8974	9255	109	281
Miewes 3	35017235210000	27	nw nw	8928	9063	9347	135	284
Miewes A 1	35017201700000	27	ne ne	8928	9050	9380	122	330
Lockhart E 1	35017204090000	28	c s/2	9133	9265	9560	132	295
Murray 1	35017230660000	28	e e w ne	9041	9172	9443	131	271
Nugent 1	35017201490000	29	c ne nw	9220	9355	9650	135	295
Garrison A 1	35017204180000	29	c ne	9130	9265	9560	135	295
Vickery Unit 1	35017204510000	30	c se	9268	9410	9710	142	300
Vickery Unit A 1	35017228980000	30	nw se nw	9266	9400	9706	134	306
Vickery 3	35017233920000	30	ne ne ne	9240	9370	9675	130	305
Willard A 2	35017228550000	31	c sw	9353	9493	9795	140	302
Willard A 1	35017204560000	31	c nw	9434	9574	9890	140	316
Hatcher A 2	35017229010000	32	c e se	9295	9430	9730	135	300
Hatcher A 1	35017204190000	32	c ne	9256	9396	9700	140	304
Thompson 1	35017202810000	33	c ne	9153	9287	9582	134	295
Lang 2	35017209700000	34	c sw	9150	9285	9585	135	300
Lang 3	35017219890000	34	c nw	9130	9258	9553	128	295
Lang 1	35017202050000	34	nw	9100	9220	9511	120	291
Hatcher Unit 1	35017206000000	35	c sw sw	9110	9237	9542	127	305
Fox 1	35017205420000	35	c sw	9075	9189	9495	114	306
Musshafen 1	35017211570000	36	se/4	n/a	8996	9287	n/a	291

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 10W</b>								
Rinehart 1	35017234820000	1	c ne ne	8868	9008	9304	140	296
Rinehart Groves 1	35017202680000	1	c ne	8884	9031	9326	147	295
Brogden 1	35017235540000	1	c e/2 se	8997	9142	9440	145	298
Powers 2	35017234700000	2	c sw	9053	9200	9505	147	305
Powers D Unit 1	35017207360000	2	c w/2 ne	8989	9134	9437	145	303
Dromberger 1	35017236620000	2	nw/4	8970	9133	9432	163	299
Barrett 1	35017235320000	3	nw/4	9041	9187	9489	146	302
Smith D Unit 1	35017206400000	3	c se	9096	9241	9550	145	309
McBee 1	35017234550000	3	se	9057	9210	9510	153	300
Buxton 1	35017235030000	4	se	9147	9293	9596	146	303
Molt 1-4	35017209090000	4	c se ne	9115	9265	9565	150	300
Quigley 1	35017203010000	9	c n/2 n/2 sw	9290	9450	9730	160	280
Nowka 10 B	35017226270000	10	w se se	9223	9370	9673	147	303
Nowka 1-A	35017217260000	10	c s s	9299	9454	9754	155	300
Nowka 1-10	35017231190000	10	e w sw	9255	9406	9710	151	304
Majors Unit 1	35017208050000	10	c ne	9130	9280	9590	150	310
Kennell Earl 1	35017205800000	11	sw se nw se	9128	9269	9583	141	314
Bragden 1	35017222770000	11	c ne	9115	9250	9560	135	310
Murray 3	35017232170000	12	c se se nw	9040	9178	9490	138	312
George Murray 1	35017204860000	12	sw/4	9090	9227	9552	137	325
Murray 2	35017206710000	12	sw/4	9016	9152	9466	136	314
Murray 1-13	35017205120000	13	sw/4	9233	9378	9702	145	324
Davison 1-13	35017219200000	13	c s/2 se	9203	9359	9671	156	312
Davison 1-14	35017216490000	14	se se nw se	9291	9452	9771	161	319
N.A. Davison	35017205270000	14	c ne	9172	9330	9640	158	310
Doyle Selvidge 1	35017200590000	15	ne sw	9389	9561	9880	172	319
Doyle Selvidge 2	35017231280000	15	ne/4	9322	9480	9802	158	322
Freeman 1	35017211720000	15	c se	9384	9536	9869	152	333
Stephens 2	35017217690000	16	c se sw	9481	9636	9941	155	305
Stephens Unit 1	35017205530000	16	c s/2 se	9451	9598	9913	147	315
Jones 1	35017219140000	17	c sw	9532	9695	10001	163	306
Quigley Unit 2	35017209980000	17	w/2 se se	9522	9675	9992	153	317
Quigley Unit 1	35017204650000	17	c s/2 ne	9462	9629	9958	167	329
Cornelins B Unit	35017208230000	18	c sw se	9590	9738	10080	148	342
Stephens 1	35017215480000	18	c se	9578	9730	10064	152	334
Canyon Camp 3	35017234780000	19	nw ne sw	9821	9975	10354	154	379
Canyon Camp 1	35017207160000	19	c nw	9634	9768	10128	134	360
Canyon Camp 2	35017223450000	19	n/2 s/2 n/2 ne	9627	9777	10087	150	310
Riekenberg-McKay 2	35017230330000	20	ne/4	9538	9691	10018	153	327
House 1-20	35017217310000	20	c sw	9661	9814	10151	153	337
Riekenberg 1	35017205310000	20	n n se	9572	9724	10054	152	330
Little 2	35017233810000	21	ne/4	9533	9660	9910	127	250
Fedderson 2	35017217680000	21	se/4	9530	9675	10016	145	341
Fedderson Unit	35017206230000	21	c ne	9606	9732	9965	126	233
Hunt 1	35017200170000	21	c se nw	9485	9650	9991	165	341

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Hazlett 1	35017212320000	21	nw nw	9546	9683	9972	137	289
Fedderson 1	35017204410000	22	se sw ne	9644	9768	9992	124	224
Fedderson Unit B-1	35017210410000	22	c nw sw	9777	Cut	9963	n/a	n/a
Miller 1	35017230870000	23	c sw	9778	9890	9973	112	83
Barrett 1	35017204620000	23	se/4	9606	9746	9871	140	125
Barrett 1	35017204790000	24	ne/4	9470	9620	9720	150	100
Caddo 1-25	35017211070000	25	e/2 sw se ne sw	9405	9555	9865	150	310
Joe Johnson 1	35017204360000	25	sw/4	9360	9505	9806	145	301
Federal D Unit 1	35017207110000	25	c ne	9318	9460	9773	142	313
John Williams 1-26	35017231400000	26	c s/2	n/a	9647	9954	n/a	307
Alice Johnson 1	35017203760000	26	nw	9451	9594	9919	143	325
Abbott 1	35017204110000	27	c ne	9483	9650	9957	167	307
Dodson 1	35017231020000	27	c nw	9529	9680	9999	151	319
Goddard 1	35017204640000	28	c ne	9605	9750	10075	145	325
Goddard 2	35017232160000	28	c sw	9701	9841	10182	140	341
House 1-29	35017201080000	29	ne sw	9716	9864	10218	148	354
House 1	35017210050000	29	sw sw	9771	9911	10281	140	370
Kitson 1	35017207910000	31	se/4	9892	10036	10441	144	405
House 1	35017235040000	31	ne/4	9818	9966	10341	148	375
Cambell 1	35017209010000	32	c sw	9858	10018	10377	160	359
Cambell Unit 1	35017201230000	32	nw se	9792	9941	10287	149	346
Grace Tayler	35017228720000	32	c w/2 w/2	9825	9977	10338	152	361
State 1	35017208200000	33	c ne	9720	9840	10176	120	336
Edge 1	35017205500000	34	c ne	9626	9765	10090	139	325
Hatcher 1	35017234100000	35	ne ne se nw	9575	9715	10040	140	325
Coy Priddy 2	35017230830000	35	c w/2 se/4	9593	9743	10060	150	317
Boling 1	35017208090000	36	c sw	9512	9653	9975	141	322
Willard	35017204660000	36	c nw	9484	9633	9948	149	315

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 11W</b>								
Morelock 1	35015207870000	6	c se	9600	9750	10119	150	369
Carl Unit 1	35015203600000	7	c w/2	9705	9860	10245	155	385
Pope 1	35015220260000	7	c se	9738	9898	10296	160	398
Edwin 1	35015206050000	13	c w/2 se	9692	9807	10179	115	372
Opitz 1	35015214950000	14	sw	9716	9872	10252	156	380
Opitz 1	35015205430000	14	c se	9713	9873	10236	160	363
Wayne 1	35015213740000	15	ne	9733	9903	10275	170	372
Senn Unit	35015203200000	16	sw	9870	10045	10447	175	402
Witt 1	35015220170000	17	c sw	9863	10028	10422	165	394
Harder 1	35015220480000	18	nw	9829	NDE	NDE	n/a	n/a
Viola 1	35015211440000	18	c e/2 sw	9912	10078	10462	166	384
Margie 1	35015209050000	19	c sw	10038	10215	10642	177	427
Hawkins A-1	35015210110000	20	c sw	10013	10181	10613	168	432
Baker 1	35015206340000	22	c se	9904	10068	10444	164	376
Tillman 1	35015209500000	22	c nw	9883	10058	10428	175	370
Arnold 1	35015204120000	23	c se	9823	9976	10353	153	377
Arnold 2	35015224070000	23	sw	9891	10036	10419	145	383
Lenaburg 3	35015224020000	24	c n/2 sw	9776	9926	10296	150	370
Lenaburg 4	35015224250000	24	ne nw sw	9739	9890	10244	151	354
Lenaburg 1	35015205890000	24	s/2 nw	9764	9917	10276	153	359
Lenaburg 2	35015217880000	24	w/2 s/2 ne	9720	9871	10228	151	357
Spear 1	35015207270000	25	c se	9837	9990	10379	153	389
Gray 1	35015210370000	25	c ne	9836	9996	10372	160	376
Opitz 1	35015223320000	25	nw se nw	9847	9997	10382	150	385
Kamm 2	35015224180000	26	nw	9896	10055	10432	159	377
Willie Opitz 1	35015205520000	26	w/2 e/2 w/2 ne	9901	10065	10450	164	385
Opitz 1	35015207940000	26	c e/2	9930	10094	10482	164	388
Kamm 1	35015207130000	26	c nw	9921	10087	10469	166	382
Goodman 1	35015206130000	27	c ne	9965	10130	10525	165	395
Goodman 2	35015221050000	27	w/2 e/2 sw	10044	10222	10612	178	390
Goodman 3	35015223760000	27	nw	9998	10160	10551	162	391
Goodman 4	35015224060000	27	se	9996	10161	10566	165	405
Loula 1	35015206350000	28	n/2 se	10079	10250	10666	171	416
Loula 1-A	35015208740000	28	se	10117	10282	10719	165	437
Loula 2	35015226500000	28	e/2 e/2 se sw	10142	10307	10728	165	421
Loula 3	35015226670000	28	sw	10172	10350	10790	178	440
Bessie Novy 2	35015226710000	29	sw	10156	10340	10773	184	433
House 1	35015211640000	29	c w/2	10176	10355	10800	179	445
Bessie Novy 1	35015209340000	29	se	10187	10358	10795	171	437
Lindley 1	35015207720000	30	e/2 e/2 w/2 se	10151	10330	10759	179	429
Lindley 3	35015223650000	30	ne	10094	10265	10693	171	428
Ellis 1	35015226990000	31	se	10219	10388	10836	169	448
Booth 1	35015209660000	31	c ne	10227	10400	10850	173	450
Kathleen 1	35015210720000	32	sw	10225	10401	10857	176	456
Ross 1	35015208130000	32	c ne	10219	10400	10859	181	459

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Drake 1	35015206380000	33	nw nw se nw	10214	10390	n/a	176	n/a
House 1	35015220590000	34	nw	10133	10310	10738	177	428
Baker 1	35015204580000	34	c sw	10187	10367	10802	180	435
Baker 1-A	35015207280000	34	c nw	10106	10276	n/a	170	n/a
House Unit 1	35015207660000	36	s/2 s/2 ne	9913	10073	10466	160	393



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 12W</b>								
Buell Unit 1	35015205550000	2	c sw	n/a	9908	10301	n/a	393
Herbold 1	35015209110000	3	c w/2 se	9784	9947	10332	163	385
Buell 1-3	35015219920000	3	n/2 nw sw	9776	9944	10337	168	393
Stewart 1	35015209700000	4	c n/2 ne	9612	9790	10172	178	382
Stewart 2-4	35015220700000	4	nw	9786	9960	10358	174	398
Luellen 1-5	35015209940000	5	sw	9807	9977	10376	170	399
Coffey 1-9	35015211170000	9	c ne	9889	10066	10464	177	398
Edna 1-10	35015212090000	10	c nw	9827	9998	10390	171	392
Buell 1-A	35015203850000	10	c se nw	9864	10042	10438	178	396
Buell 1	35015203440000	11	c nw	n/a	9957	10353	n/a	396
Bertha 1	35015215470000	13	sw	9962	10136	10533	174	397
Edna 1-13	35015219800000	13	ne	9843	10014	10404	171	390
Jaques A-1	35015209470000	13	s/2 s/2 ne	9880	10045	10436	165	391
Corder 1	35015208450000	14	se	9986	10164	10566	178	402
Hawkins 1	35015203650000	14	c nw	9942	10120	10531	178	411
State 1-14	35015218920000	14	ne	9942	10114	10523	172	409
State 1-16	35015212600000	16	c ne	10034	10216	10634	182	418
Hale 1-16	35015209370000	16	se	10067	10260	10686	193	426
Tucker 1	35015220210000	19	se se nw se	10232	10422	10892	190	470
Propps 1	35015211560000	22	c ne	10115	10298	10721	183	423
Hamilton 1	35015208570000	23	c n/2 se	10110	10288	10706	178	418
Daily R. Elliott 1-24	35015211780000	24	c ne	10016	10197	10601	181	404
Mills 1	35015208200000	24	e/2 sw	10086	10263	10685	177	422
Dorsey A-1	35015213220000	25	c ne	10103	10281	10688	178	407
Klusmeyer 2	35015224950000	25	se	10170	10346	10768	176	422
Klusmeyer 1	35015208470000	25	sw ne nw	10140	10318	10737	178	419
Seminary 2	35015225170000	26	nw	10194	10364	10818	170	454
Seminary 1	35015208710000	26	ne	10192	10373	10810	181	437
Margie 1-27	35015210260000	27	se	10292	10468	Lost	176	n/a
Yomkin Trust 1	35015217270000	29	c nw	10292	10479	10949	187	470
Tucker Unit 1	35015213010000	30	c sw	10253	10448	10941	195	493
Lierle - Hart 1	35015217330000	31	c sw	10264	10474	10984	210	510
Neva 1	35015220390000	32	se se	10347	10551	11039	204	488
Freeman A-1	35015214640000	33	c sw ne	10353	10545	11015	192	470
Garrison 1	35015220560000	33	sw	n/a	10588	11078	n/a	490
Ferguson 1-36	35015200970000	36	ne nw	10284	10488	10944	204	456

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 13W</b>								
Clark 1-2	35015223140000	2	w/2 ne ne	9815	Lost	10395	n/a	n/a
Reynolds 1	35015204110000	5	c sw	9918	10089	10531	171	442
Hale Farms 1-6	35015216740000	6	c sw	9939	10109	10564	170	455
Entz 1-7	35015213730000	7	sw nw se	10012	10198	10638	186	440
Entz 1-8	35015212420000	8	c sw	10028	10213	10670	185	457
Wayne Propps 1	35015217790000	9	e/2 w/2 ne	9981	10150	10584	169	434
Rathbun 1-10	35015220450000	10	sw nw	9985	10160	10592	175	432
Gesell 1	35015207840000	11	sw sw ne	9982	10164	10585	182	421
Wyatt 1	35015209880000	13	se	Lost	10302	10771	n/a	469
L.A. Smith Jr. 1-14	35015209540000	14	ne	10059	10246	10687	187	441
Robert Heger 1-16	35015212930000	16	n/2 c sw	10050	10239	10712	189	473
Frost 1-17	35015211010000	17	nw	10050	10250	10724	200	474
Horn 1-18	35015212290000	18	se	10030	10243	10730	213	487
Horn 1-19	35015212840000	19	ne sw sw ne	10100	10302	10801	202	499
Heger 1-20	35015213950000	20	c ne	10079	10282	10770	203	488
Sylvester Unit Well 1	35015213150000	21	sw	Lost	10294	10775	n/a	481
Shoop Unit Well 1	35015214680000	22	c sw	10100	10283	10784	183	501
Lawless 1-23	35015213460000	23	nw	10123	10309	10789	186	480
Tucker 1-25	35015214920000	25	n/2 n/2 se	10209	10399	10921	190	522
Tucker 2-25	35015215540000	25	sw	10182	10386	10906	204	520
Jones 1-26	35015214890000	26	sw	10172	10382	10904	210	522
Jones 1-26 "A"	35015227160000	26	sw ne sw	10162	10368	10896	206	528
Chrissman 27-A	35015214230000	27	c sw	10145	10353	10888	208	535
Shanklin 1-28	35015215050000	28	c ne ne	10129	10340	10854	211	514
Curtis 1-28	35015213210000	28	c sw	10127	10335	10870	208	535
Chisum 1	35015212990000	29	ne sw nw se	10105	10316	10900	211	584
Grace 1-30	35015223080000	30	c s/2 sw	10039	10252	10882	213	630
Yearwood 1	35015213680000	30	c ne	10098	10302	10839	204	537
Capron Smith 2-31	35015222060000	31	n/2 sw	9979	10202	Lost	223	n/a
Yearwood 1-32	35015214130000	32	se	10056	10274	Lost	218	n/a
M.D. Yearwood 2	35015214940000	32	se	10052	10273	Lost	221	n/a
Crissman 1	35015213060000	34	c sw	10184	10403	10941	219	538
Massey Farms 1	35015215450000	34	c ne ne	10177	10395	10937	218	542
Moore 1-35	35015217320000	35	ne sw ne	10164	10374	10899	210	525
McGlone 1-35	35015215020000	35	sw	10177	10394	10927	217	533
Hart 1-36	35015215030000	36	c sw	10163	10408	10930	245	522

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>11N 14W</b>								
Noble 1	35149204010000	1	n/2 s/2 sw	10025	10202	10668	177	466
Amen 1	35149202750000	1	n/2 n/2 n/2 sw	10033	10213	10675	180	462
Dickerson 1	35149203780000	2	c se nw	10028	10198	10673	170	475
Weichel 1	35149201890000	2	e/2 w/2 e/2 sw	10052	10230	10703	178	473
Williams 1	35149204100000	3	sw ne ne	10027	10192	10657	165	465
Hunnicut 1	35149204560000	10	s/2 n/2 sw	10089	10276	Lost	187	n/a
Heck 1	35149202580000	12	e/2 w/2 e/2	10018	10206	10671	188	465
Payne 1	35149202700000	13	c ne	10036	10242	10738	206	496
Melgi 1-14	35149203940000	14	c w/2 se	10064	10257	10764	193	507
C.J. Lewis 1	35149203730000	15	c se	10059	10257	Lost	198	n/a
Scales 1	35149204690000	17	c sw	10129	10324	Lost	195	n/a
Tall Bear 1	35149201670000	18	c sw	10018	10205	Lost	187	n/a
Tall Bear 2	35149207390000	18	c n/2 se	10102	10282	Lost	180	n/a
North Corn Unit 1	35149000500000	19	se ne sw	Lost	10159	Lost	n/a	n/a
Clarence 2	35149206900000	19	e/2 w/2 nw	9957	10148	Lost	191	n/a
Clarence 1	35149201110000	19	ne ne sw ne	Lost	10153	Lost	n/a	n/a
Flaming 1 RF	35149201100000	20	ne nw se sw	9946	10153	10678	207	525
Flaming 1-20	35149200820000	20	n/2 s/2 n/2 sw	9936	10150	Lost	214	n/a
Flaming 2	35149206770000	20	c ne	10095	10295	Lost	200	n/a
Smith 1	35149204130000	21	c sw	10065	10264	Lost	199	n/a
Smith 1	35149205040000	22	c sw	10106	10315	Lost	209	n/a
Gaunt 1	35149202770000	23	c ne	10112	10318	10854	206	536
Kar 1	35149202890000	24	c ne	10091	10293	10810	202	517
Payne 1	35149203230000	25	e/2 e/2 w/2 sw	10047	10260	Lost	213	n/a
Luekenga A-1	35149200250000	25	ne nw se sw	10077	10290	Lost	213	n/a
Slagell Farms 2-26	35149202780000	26	c e/2 sw	10028	10247	Lost	219	n/a
Slagell Farms 1-26	35149201850000	26	c sw	10062	10277	Lost	215	n/a
Rhoads 1	35149204600000	27	c nw	10121	10339	10914	218	575
Rice 1	35149202050000	27	w/2 w/2 e/2 sw	10166	10379	10962	213	583
Davis 1	35149202320000	28	c nw	10040	10245	Lost	205	n/a
Crowder 1	35149201190000	29	c ne	9985	10190	10733	205	543
Warkentin 1	35149201080000	30	c ne	9994	10192	10778	198	586
Theissen 1	35149201460000	32	e/2 w/2 ne	10235	10451	Lost	216	n/a
Hamburger 1	35149203030000	34	sw/4	10262	10479	11107	217	628
Riley 1	35149202740000	36	n/2 s/2 n/2 sw	10121	10346	Lost	225	n/a

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 7W</b>								
Walter Mills 1	35017211240000	4	se nw	7183	7269	7442	86	173
Walter Mills 2	35017215330000	4	c ne se	7181	7271	7446	90	175
Walter Mills 3	35017215540000	4	c s/2 nw ne	7171	7245	7412	74	167
Walter Mills 4	35017215550000	4	c se sw	7231	7325	7498	94	173
Clouse 3	35017217000000	5	c n/2 nw ne	7255	7328	7505	73	177
Clouse 4	35017216030000	5	c nw se	7309	7388	7570	79	182
Walter Clouse 1	35017211770000	5	e/2 sw	7368	7448	7631	80	183
Von Tungeln 1	35017212010000	6	c se sw	7416	7495	7684	79	189
Von Tungeln 2	35017216590000	6	nw ne	7375	7462	7654	87	192
Adams Park 1	35017215400000	7	n/2 s/2 se nw	7486	7585	7774	99	189
Adams Park 2	35017221400000	7	nw se ne ne	7432	7517	7705	85	188
Adams Park 3	35017221410000	7	sw	7560	7648	7838	88	190
Adams Park 4	35017221340000	7	nw sw nw se	7511	7601	7796	90	195
Thompson 1	35017219730000	9	c ne ne se	7229	7320	7493	91	173
Community Wise 1	35017351380000	14	nw se sw	7079	7165	7346	86	181
Melta Wise 1	35017351370000	14	nw se nw	7092	7170	7351	78	181
Huchtemann 1	35017000190000	14	nw ne se	7046	7120	7301	74	181
Scholte 1	35017214830000	16	c se sw	7299	7385	7574	86	189
Ross 1	35017224800000	17	ne ne sw	7486	7570	7766	84	196
Milam 1	35017216170000	18	c nw se	7610	7691	7908	81	217
Milam 2	35017225740000	18	c nw sw	7654	7744	7959	90	215
Milam 3	35017226430000	18	w/2 w/2 ne nw	7598	7684	7892	86	208
Milam 4	35017228410000	18	s/2 nw ne	7568	7656	7857	88	201
Wegener Foundation 1	35017213800000	19	se nw	7597	7679	7887	82	208
Wegener Foundation 3	35017223050000	19	se se	7560	7646	7857	86	211
Schulte 1	35017224870000	19	ne sw	7602	7689	7892	87	203
Bomhoff 2	35017221840000	20	c se nw	7497	7583	7777	86	194
Bomhoff 3	35017222620000	20	se sw	7511	7601	7801	90	200
Bomhoff 4	35017221960000	20	se ne	7465	7545	7745	80	200
Bonebrake 3	35017224680000	21	se nw	7385	7468	7664	83	196
Bonebrake 2	35017225070000	21	e/2 nw se	7434	7519	7718	85	199
Bonebrake 1	35017213810000	21	nw se	7362	7446	7641	84	195
Meyer 1	35017221590000	23	sw	7174	7257	7438	83	181
Royse 1	35017212880000	23	c ne	7143	7226	7408	83	182
Trust 1	35017221450000	23	nw nw	7124	7203	7388	79	185
Ragland 1	35017212900000	24	c nw	7141	7216	7393	75	177
Ragland 2	35017227630000	24	c sw sw	7194	7274	7451	80	177
Shepard 1	35017218240000	25	c ne	7177	7254	7428	77	174
Kroutil 3	35017226840000	26	sw	7304	7389	7576	85	187
Kroutil 2	35017226030000	26	c nw	7247	7334	7517	87	183
Burnett 1	35017217480000	27	n/2 nw se	7288	7380	7568	92	188
Burnett 3	35017222640000	27	c nw nw	7343	7430	7623	87	193
Jensen 1	35017216180000	28	c ne	7385	7473	7668	88	195
Jensen 2	35017222160000	28	c se nw	7435	7525	7728	90	203
Patterson 2	35017223440000	29	nw ne	7498	7589	7792	91	203

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Patterson 1	35017215770000	29	c ne	7488	7578	7783	90	205
Hoffman 1	35017220060000	29	nw	7538	7628	7837	90	209
Huchtemann 1	35017223400000	29	nw nw nw	7545	7630	7839	85	209
Ellison 1	35017220460000	29	sw	7575	7666	7874	91	208
Mathies 1	35017213820000	30	nw se	7604	7695	7905	91	210
Mathies 2	35017225310000	30	se ne	7560	7652	7862	92	210
Mathies 3	35017224830000	30	c se nw	7626	7716	7926	90	210
Mathies C-1	35017214120000	31	c n/2 se	7644	7730	7960	86	230
Mathies 2	35017227210000	31	c sw	7746	7838	8060	92	222
Mathies 3	35017233660000	31	c sw sw	7720	7810	8043	90	233
Porter 1	35017220160000	32	c se sw	7600	7690	7913	90	223
Porter 2	35017224910000	32	c se se	7573	7660	7879	87	219
Huchtemann 1	35017200990000	32	c sw nw	7620	7707	7922	87	215
Porter 4	35017225030000	32	se nw	7590	7681	7899	91	218
Porter 3	35017225400000	32	c se ne	7549	7641	7851	92	210
Elmenhorst 1	35017215580000	33	c ne	7450	7535	7740	85	205
Burge 1	35017226520000	34	sw	7476	7565	7770	89	205
Erbar 1	35017220470000	34	c ne	7383	7468	7666	85	198
Porter 1	35017212350000	35	se se	7379	7477	7667	98	190
Margaret 1	35017211030000	35	se ne	n/a	n/a	7628	n/a	n/a
Howard 1	35017221750000	35	nw nw	7345	7439	7629	94	190
Vasicek 1	35017208140000	36	c ne sw	n/a	7400	7580	n/a	180

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 8W</b>								
Porter B-1	35017000280000	5	c ne sw	7803	7909	8133	106	224
Porter C-1	35017220330000	5	c se nw	7799	7892	8122	93	230
Porter C-2	35017228180000	5	nw sw	7808	7904	8127	96	223
Fitzgerald 1	35017351390000	6	sw ne	7836	7926	8162	90	236
Calumet 1	35017215900000	6	c s/2 se ne	7815	7910	8141	95	231
Henry Jo 1	35017218840000	7	sw ne	7894	7989	8224	95	235
Henry Jo 3	35017230630000	7	ne	7878	7966	8197	88	231
Heckers 1	35017222740000	8	nw	7862	7950	8184	88	234
Wier 1	35017209200000	8	nw	7913	8005	8240	92	235
Meyer 1	35017214880000	13	se	7692	7787	8007	95	220
Loosen 1	35017212580000	14	c sw sw	7789	7886	8116	97	230
Loosen 2	35017234890000	14	sw	7742	7832	8045	90	213
Chiles 1	35017208810000	15	s/2 w/2 w/2 se	n/a	n/a	8134	n/a	n/a
Swingle 1	35017216710000	16	c se se	7848	7948	8186	100	238
Chappell 1	35017222830000	16	c se sw	7888	7988	8217	100	229
Alice 1	35017217590000	17	c se	7927	8024	8260	97	236
Lorenzen 1	35017219300000	18	c se	8059	8160	8404	101	244
Annis 1	35017216440000	19	c ne	8061	8165	8405	104	240
Von Tungeln 1	35017216910000	20	c nw se	7973	8072	8307	99	235
Reuter 1	35017228170000	21	se	7900	7998	8230	98	232
Irene Brown 1	35017207570000	21	ne	7888	7990	8220	102	230
Brown 1	35017233770000	22	c s/2 sw	7851	7948	8177	97	229
Brandley 1	35017206730000	22	c sw	7858	7956	8186	98	230
Brandley 5	35017233620000	22	c n/2	7846	7944	8176	98	232
Brandley 6	35017233940000	22	c se ne	7797	7892	8117	95	225
Zeidler 2	35017233700000	23	n/2 n/2 n/2 sw	7769	7862	8089	93	227
Minnie Ziedler 1	35017208150000	23	c sw sw	7780	7880	8108	100	228
Schlecht 1	35017218260000	24	sw	7661	7751	7963	90	212
Meyer 1	35017214760000	25	c nw	7710	7802	8020	92	218
Zum Mellen 1	35017234390000	25	se	7691	7796	8013	105	217
Lafollete 2	35017234410000	26	n/2 n/2 se	7759	7850	8073	91	223
Lafollete 1	35017207440000	26	c sw	7784	7876	8104	92	228
Von Tunglen 1	35017207040000	28	c se	7921	8017	8251	96	234
Tungelin 1	35017000620000	28	c ne ne	7878	7968	8203	90	235
Kullman 1	35017209530000	29	se	8036	8140	8372	104	232
Courtney 1	35017219650000	30	c ne	8167	8271	8509	104	238
Von Tunglen 1	35017209280000	32	c ne	8126	8220	8465	94	245
Fedderson 1	35017209560000	33	c ne	7990	8089	8322	99	233
Fedderson 1	35017230850000	33	w/2 ne ne	7976	8071	8301	95	230
Steffen 1	35017233880000	34	nw	7898	7988	8220	90	232
Elmenhorst 1	35017206760000	34	se	7898	7988	8228	90	240
Meyers 1	35017207810000	35	c nw	7811	7906	8131	95	225
City of El Reno 1	35017300030000	36	sw	7751	7841	8071	90	230
Pauline 2	35017233680000	36	e/2 w/2 ne	7721	7812	8039	91	227
Pauline 1	35017229450000	36	se ne	7711	7801	8016	90	215

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Pauline 3	35017234120000	36	n/2 se ne	7702	7791	8011	89	220
Dorothy Brown 1	35017232120000	36	c se se	7739	7822	8054	83	232

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 9W</b>								
Donna J. 1	35017217580000	1	c nw se	7968	8066	8296	98	230
McCann 1	35017220860000	2	c sw	8073	8168	8408	95	240
Hopkins 1	35017206050000	3	c sw	8162	8257	8501	95	244
Miller Unit 1	35017202580000	3	c ne	8080	8181	8423	101	242
Gardner 4-A	35017204530000	4	c sw sw	8221	8332	8579	111	247
Wayne D. Fees Unit 1	35017302140000	4	nw	8148	8261	8498	113	237
Bernstein Unit 1	35017202710000	5	c sw	8333	8452	8713	119	261
George Bernstein Unit 2	35017231290000	5	s/2 n/2 s/2 ne	8239	8352	8603	113	251
Reimers A 1	35017229390000	5	e/2 w/2 nw	8278	8400	8650	122	250
Youngheim Unit 1	35017202030000	6	c se	8394	8500	8751	106	251
Hurst Unit 1	35017201670000	8	c sw	8452	8570	8822	118	252
Hurst Unit 2	35017224560000	8	ne	8343	8460	8714	117	254
Sullivan Unit 1	35017202510000	9	c sw	8309	8421	8664	112	243
Boone 1	35017203510000	10	c sw	8238	8350	8588	112	238
McDonald 1	35017220660000	12	c se	8035	8128	8355	93	227
Red River Cattle Co. 1	35017217290000	13	ne/4	8050	8150	8388	100	238
Miller 1	35017223600000	14	c ne	8313	8418	8658	105	240
Ellison A-1	35017206200000	15	sw	8350	8463	8718	113	255
Ellison Unit 1	35017201300000	15	c sw	8317	8431	8674	114	243
Carter 1	35017234290000	16	se	8385	8502	8752	117	250
Broderson 1	35017201590000	16	c sw	8364	8476	8720	112	244
McGaham 2	35017234000000	16	nw nw ne ne	8298	8413	8654	115	241
McGaham 1	35017229630000	16	w/2 nw	8344	8459	8706	115	247
Reuter 1	35017235000000	17	nw/4	8431	8551	8801	120	250
Freud 1	35017201380000	17	c nw se	8423	8553	8797	130	244
Freud 2	35017229030000	17	se nw se	8429	8544	8797	115	253
Mayberry 2	35017204920000	17	ne/4	8398	8515	8767	117	252
Leisy 1	35017231980000	17	n s sw	8473	8595	8861	122	266
Witcher Unit 1	35017201770000	18	sw	8492	8607	8871	115	264
Reuter 1	35017204700000	18	c ne ne	8466	8582	8838	116	256
Witcher A-1	35017210390000	18	c sw sw	8586	8708	8973	122	265
Herman Mervelot 1	35017000580000	19	se nw	8616	8741	9002	125	261
Chiles C-3	35017223590000	20	se/4	8448	8564	8820	116	256
Chiles 2	35017230990000	21	nw/4	8417	8530	8782	113	252
Chiles 1	35017203820000	21	nw se	8422	8532	8782	110	250
C.L. Eaton 1	35017200970000	22	c sw ne	8363	8479	8727	116	248
Royse Unit 1	35017200190000	23	c ne sw	8337	8440	8680	103	240
Ankney Unit 1	35017201600000	27	c s/2 nw	8478	8583	8838	105	255
Ankney 1	35017204500000	27	sw sw	8516	8638	8899	122	261
Chiles 2	35017231300000	28	c sw	n/a	8680	8945	n/a	265
Chiles A-1	35017201420000	28	n/2	8493	8610	8866	117	256
Chiles B-1	35017201510000	29	sw ne	8596	8696	8961	100	265
Chiles B-2	35017208950000	29	c sw	8554	8680	9032	126	352
Chiles B-3	35017307800000	29	c se	8590	8719	8986	129	267
Chiles B-4	35017231970000	29	nw	8571	8701	8976	130	275



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
H.H. Litton 1	35017000570000	30	se nw	8614	8750	9086	136	336
Wiley 1-31	35017234860000	31	w/2 e/2 sw nw	8794	8951	9233	157	282
Beard 1	35017233780000	31	s/2 ne sw	8809	8951	9229	142	278
Eldon Ridenour 1	35017201740000	31	se/4	8770	8918	9193	148	275
Thelma Blagg Unit	35017201690000	32	c se	8693	8826	9095	133	269
Blagg 2	35017233630000	32	c nw	8644	8770	9056	126	286
D.C. Cooksey 1	35017201790000	33	c sw	8645	8769	9042	124	273
D.C. Cooksey 2	35017230370000	33	nw/4	8596	8723	8986	127	263
Cooksey 2	35017231610000	33	c s/2 se	8600	8716	8995	116	279
Young Man 1	35017233520000	34	se/4	8555	8670	8935	115	265
Keever 1	35017201920000	34	sw/4	8576	8691	8961	115	270
Schumacher 1	35017205510000	34	nw nw	8553	8673	8928	120	255
Reuter 1	35017220870000	35	c nw se	8451	8561	8807	110	246
Courtney 1	35017204210000	36	c s/2 ne	8308	8412	8664	104	252

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 10W</b>								
Denwalt 1	35017202800000	1	c ne	8389	8521	8762	132	241
Leonard Unit 1	35017201220000	1	sw	8463	8592	8844	129	252
Powell 1	35017205140000	1	se	8471	8594	8869	123	275
Swartz 1-1	35017232360000	1	n/2 n/2 sw sw	8481	8610	8863	129	253
Delana 1-2	35017204060000	2	c nw	8435	8567	8815	132	248
Little 2-2	35017232150000	2	e/2 w/2 w/2 se	8477	8609	8854	132	245
Leon Little 1-2	35017223270000	2	c sw	8496	8613	8875	117	262
Delson 1-3	35017226550000	3	c ne	8475	8608	8858	133	250
Cordillera 1-3	35017237430000	3	w/2 nw nw se	8532	8654	8915	122	261
Cheyenne Woman 1-3	35017238660000	3	s/2 nw nw	8501	8628	8889	127	261
Don 1	35017203560000	3	w/2 c sw	8581	8711	8960	130	249
Little 3-1	35017236320000	3	se	8588	8704	8975	116	271
One Arm 1	35017204000000	4	c se	8591	8725	8975	134	250
One Arm 2	35017230950000	4	c ne	8545	8682	8937	137	255
State 1	35017203270000	5	sw of se	8661	8797	9062	136	265
Tilley 1	35017204010000	5	c ne	8618	8758	9015	140	257
Benedict 1	35017231650000	5	ne nw se nw	8687	8832	9092	145	260
Petree Unit 1	35017205810000	5	c sw	8701	8842	9108	141	266
Pettigrew Unit 1	35017206530000	6	c s/2 ne	8689	8830	9095	141	265
Federal Unit 1	35017206240000	7	c ne ne	8776	8911	9189	135	278
Senn Unit 1	35017205020000	8	c ne	8700	8836	9107	136	271
Theil 1	35017230200000	9	e/2 nw ne	8636	8774	9030	138	256
Rollins State 1	35017202990000	9	c se ne	8654	8790	9047	136	257
Jameson 1	35017218810000	9	sw	8733	8862	9135	129	273
Thiel 1	35017204330000	10	c nw	8617	8740	8998	123	258
Thiel 10-2	35017233720000	10	sw sw ne se	8650	8768	9042	118	274
Thiel 10-3	35017234250000	10	nw se sw	8689	8818	9071	129	253
L L & E Mary E. Delana 1-	35017231500000	11	ne	8562	8680	8946	118	266
Walbaum Unit B 1	35017204420000	11	s/2 s/2 n/2 nw	8580	8708	8964	128	256
Walbaum 2-11	35017233540000	11	se	8626	8753	9011	127	258
Walbaum 3-11	35017237390000	11	c n/2 sw	8646	8758	9029	112	271
Massey 1	35017220780000	12	sw	8600	8723	8985	123	262
Funck 1-12	35017238330000	12	nw	8547	8677	8934	130	257
Ellison 1-12	35017211600000	12	se se	8503	8630	8888	127	258
Fowlkes Unit 1	35017200820000	12	sw sw ne	8524	8653	8922	129	269
Massey 1	35017203390000	13	c nw	8620	8744	9007	124	263
Beard 1-13	35017236880000	13	nw nw sw se	8630	8760	n/a	130	n/a
Bay A 1	35017228280000	14	c nw	8668	8791	9057	123	266
Spurlin Farms 1	35017217270000	14	c sw	8732	8851	9122	119	271
F.G. Bomhoff 1	35017500050000	14	sw ne	8681	8801	n/a	120	n/a
Bay Farms 1	35017230880000	14	c w/2 ne ne	8655	8777	9049	122	272
Tinsley 1	35017204130000	15	c nw	8733	8860	9130	127	270
Tinsley 2	35017231460000	15	se	8751	8882	9142	131	260
Ledford 1	35017202880000	16	c se	8812	8944	9219	132	275
State H 1	35017206820000	16	c nw	8799	8935	9215	136	280

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
State G-1	35017234870000	16	s/2 n/2 n/2 sw	8851	8987	9266	136	279
Horwedel 1	35017212760000	17	c sw	8972	9110	9384	138	274
C. Wheeler 1	35017203530000	17	w w w ne	8881	9013	9294	132	281
Challis Unit 1	35017211330000	18	c nw se	8974	9106	9392	132	286
Carlile 1	35017213740000	20	c se	9003	9133	9441	130	308
Ledford 1	35017203480000	21	nw	8914	9053	9336	139	283
Erickson B-1	35017210830000	21	c sw	8967	9105	9387	138	282
Erickson B Unit 2	35017215830000	21	sw nw	8939	9074	9364	135	290
Kappus 2-22	35017230810000	22	e w ne	8791	8926	9196	135	270
Kappus Unit 1	35017209000000	22	c se	8825	8955	9235	130	280
Evans 1	35017205180000	23	c se	8769	8902	9172	133	270
Evans 2	35017210090000	23	c nw	8755	8883	9160	128	277
Kappus 1	35017230720000	23	c sw	8815	8950	9227	135	277
Erickson 1	35017207830000	24	c e/2 ne	8617	8750	9020	133	270
Erickson 1	35017202460000	24	c nw	8692	8824	9102	132	278
Carolee 1	35017235110000	25	e/2 se sw	8770	8939	9219	169	280
Vicki 1	35017206430000	25	se	8641	8765	9028	124	263
Hale Unit 1	35017200680000	25	nw se	8758	8916	9191	158	275
Austin 1	35017219950000	26	s/2 c sw	8732	8836	9150	104	314
Nitzel 1	35017207610000	26	c se	8746	8888	9308	142	420
Hall 1	35017209120000	27	n/2 se	8943	9095	9382	152	287
Hall 2	35017211660000	27	sw	8923	9070	9348	147	278
Hall 3	35017230840000	27	w/2 e/2 sw	8977	9128	9420	151	292
West 1-28	35017232040000	28	n/2 se	8989	9137	9433	148	296
Shelby Unit 1	35017211810000	29	c ne	9042	9180	9483	138	303
Hagin 1	35017202200000	29	c ne sw	9100	9248	9548	148	300
Slaton 1	35017215100000	30	c ne	9094	9228	9543	134	315
Slaton Meriwether 1	35017228690000	30	se	9156	9292	9612	136	320
John Ross 1	35017231170000	31	c w e ne	9207	9351	9671	144	320
Kimball 1	35017217350000	31	c se	9223	9381	9700	158	319
Findley 1-32	35017233600000	32	sw	9147	9302	9600	155	298
Hubbard 1	35017213500000	32	c sw	9195	9345	9663	150	318
Hubbard 2	35017232410000	32	c se	9156	9316	9626	160	310
Hubbard 3	35017233710000	32	sw sw nw sw	9207	9357	9677	150	320
Johnson 2	35017228370000	33	w e nw	9067	9220	9520	153	300
Johnson 1	35017209030000	33	c ne ne	8900	9015	9312	115	297
Hall B-6	35017235130000	34	ne sw sw ne	8945	9107	9400	162	293
Hall B-1	35017207600000	34	c ne ne	8926	9082	9371	156	289
Hall B-2	35017213370000	34	w/2 e/2 e/2 nw	8984	9147	9433	163	286
Hall B-3	35017217030000	34	c nw	8921	9157	9455	236	298
Hall B-4	35017234840000	34	sw	9087	9236	9541	149	305
Hall B-5	35017234990000	34	sw	9005	9167	9459	162	292
Brogden C-1	35017206830000	35	c s/2	8884	9035	9335	151	300
Ingram 3	35017235200000	36	s/2 s/2 nw	8870	9020	9310	150	290
St. of Oklahoma 1	35017215640000	36	c sw	8921	9069	9357	148	288
Ingram 1	35017000520000	36	se nw	8858	9008	9293	150	285

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Ingram 1	35017201210000	36	ne	8772	8912	9200	140	288
Ingram 2	35017234440000	36	se/4	8834	8978	9266	144	288

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 11W</b>								
Shanklin 1-5	35015205010000	5	w/2 se	9019	9167	9451	148	284
Shanklin 1	35015206720000	5	c se se	9025	9170	9461	145	291
Netherton 1-6	35015208900000	6	se/4	9083	9233	9529	150	296
Cooley 2	35015220050000	6	n/2 nw nw	9014	9166	9473	152	307
Richard 1	35015223570000	7	sw	9199	9342	9666	143	324
West 1	35015208080000	7	c se	9176	9321	9628	145	307
Weather 2	35015218290000	8	c sw sw	9208	9354	9655	146	301
Romilda Weathers 1	35015208790000	8	c sw/4	9156	9309	9599	153	290
Lee 1	35015208590000	9	c sw	9101	9241	9535	140	294
Heiliger 1	35015209690000	12	n/2 se	8918	9049	9331	131	282
Lee D-1	35015203510000	16	sw nw	n/a	9280	9589	n/a	309
Thomason 1	35015218910000	18	nw	9269	9424	9721	155	297
Murphy 1	35015208370000	18	w/2 ne	9247	9398	9690	151	292
Fosset 1	35015208040000	19	ne/4	9232	9380	9688	148	308
Fosset 1	35015207050000	19	c sw	9397	9552	9869	155	317
Richards 1	35015208430000	20	c ne	9271	9426	9730	155	304
Sarah Davis Unit 1	35015208840000	21	e/2 w/2 ne	9246	9399	9695	153	296
Gray 1	35015209610000	24	c sw sw	9191	9339	9633	148	294
Brookshire 1-25	35015218150000	25	c ne ne	9179	9329	9624	150	295
Franks 1	35015209230000	25	c s/2	9268	9418	9726	150	308
Coffey 1	35015200870000	26	c sw ne	n/a	9405	9721	n/a	316
Luther Tucker 1	35015206230000	29	c sw/4	9398	9554	9888	156	334
Karnes 1	35015206770000	31	c ne	9505	9658	9999	153	341
Viola Constein 1	35015212300000	32	c ne	9738	9896	10238	158	342
Majors 1-33	35015210860000	33	c sw	9505	9659	9991	154	332
Constein 1	35015208180000	33	c nw	9437	9593	9926	156	333
Hinton Townsite 1-34	35015218560000	34	e/2 nw se sw	9458	9611	9943	153	332
Reckard 1-36	35015219500000	36	c n/2	9289	9434	9755	145	321
Meriwether 1	35015208620000	36	c s/2	9286	9439	9761	153	322

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 12W</b>								
Helderman 1	35015208650000	1	se ne sw	9124	9273	9628	149	355
Cooley 2-1	35015219440000	1	s n nw	9081	9228	n/a	147	n/a
Karlin 1	35015206120000	2	c nw	9130	9283	9599	153	316
Karlin 2	35015220110000	2	s/2 n/2 ne	9116	9267	9576	151	309
Soddie 1	35015208460000	2	n/2 n/2 s/2 se	9187	9338	n/a	151	n/a
Soddie 2	35015219810000	2	se se nw se	9153	9311	9637	158	326
London 2-3	35015208960000	3	n s ne ne	9085	9236	9557	151	321
London 1	35015218620000	3	ne	9118	9288	9605	170	317
Schroder 1	35015204480000	3	c sw	9210	9355	9680	145	325
Martin 1	35015203760000	4	ne nw se	9202	9342	9673	140	331
Byrum 1	35015218240000	4	sw	n/a	9358	9683	n/a	325
Opal Majors 1	35015217960000	5	ne nw	9147	9284	9611	137	327
Bennett 1	35015215970000	5	c ne	9175	9318	9630	143	312
Majors A-1	35015217610000	6	w e nw	9237	9380	9710	143	330
Majors 1	35015214310000	6	c w/2	9184	9323	9652	139	329
Entz State 1	35015219710000	7	sw ne ne	9274	9421	9754	147	333
Meacham 1	35015210630000	7	s/2 s/2 nw	9283	9427	9763	144	336
Barbara Jane Unit 1	35015218250000	8	c nw nw	9254	9395	9727	141	332
Seward 1	35015205470000	8	c sw	9314	9464	9797	150	333
Bennett 1	35015205110000	9	nw	9271	9418	9740	147	322
Epperly 1	35015210040000	9	c se se	9330	9472	n/a	142	n/a
Ray Karlin 1	35015206480000	10	ne	9233	9379	9709	146	330
Karlin Ray 2	35015221060000	10	c se nw	9272	9419	9744	147	325
Emma 1	35015208720000	10	s s n se	9306	9456	n/a	150	n/a
Wilson 1	35015208660000	11	c nw	9237	9388	9711	151	323
Inlow 1	35015217710000	11	n s ne ne	9231	9375	9706	144	331
Randall Foster 1	35015206060000	11	c sw	9283	9432	9754	149	322
Meriweather 2	35015218220000	12	nw se nw	9185	9338	9675	153	337
Hedgecock 1	35015209570000	12	ne	9153	9298	9618	145	320
Hedgecock 2	35015217930000	12	ne sw ne	9176	9321	9636	145	315
Hedgecock 3	35015222920000	12	sw	9217	9362	9687	145	325
Carpenter St. 1	35015205770000	14	c ne	9307	9457	9782	150	325
Foster Farms 1	35015218350000	14	c nw	9333	9481	9811	148	330
Bode 1	35015207250000	15	c ne	9324	9472	9822	148	350
Bode 2	35015208920000	15	c n nw	9360	9502	9868	142	366
Cantell 1	35015207420000	16	c ne	9367	9511	9875	144	364
Futton 1	35015209480000	17	c s se	9461	9626	9978	165	352
Futton 1	35015207780000	17	c e/2	9413	9560	9908	147	348
Jenna 1	35015209750000	18	se se	9476	9636	n/a	160	n/a
Roman 1	35015200440000	18	nw se	n/a	9616	10004	n/a	388
Virginia 1	35015210280000	19	s/2 s/2 n/2 sw	n/a	9756	n/a	n/a	n/a
Kimble 1	35015216770000	19	n/2 s/2 sw	9615	9773	10163	158	390
Jones 1-20	35015210730000	20	c sw	9607	9757	10158	150	401
Krehbiel 1	35015207980000	21	c nw	9473	9617	10002	144	385
Krehbiel 1	35015206700000	21	c ne	9479	9626	10001	147	375

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Stout 1	35015217970000	22	c ne	9452	9602	9952	150	350
Thomason 1	35015206680000	23	c nw	9416	9569	9909	153	340
Krehbiel Farms 1	35015214820000	24	e w e sw	9451	9599	9934	148	335
McCool 1	35015216640000	25	sw	9525	9681	10020	156	339
Wheeler 1	35015210360000	25	c nw	9491	9658	9988	167	330
Faust 1-A	35015212440000	26	c nw	9506	9666	10000	160	334
Whillock 1	35015206990000	27	c ne	9540	9699	10042	159	343
Wells 1	35015207140000	28	ne	9705	9865	10261	160	396
Flanigan 1	35015209430000	29	c sw	9587	9752	10127	165	375
Flanigan 1	35015216480000	30	se se	9711	9872	10270	161	398
Bright 1	35015214550000	30	sw	9734	9908	10308	174	400
Kimble 1	35015208930000	30	n s ne	9645	9800	10200	155	400
Flanigan A-1	35015210000000	31	ne	9754	9911	10300	157	389
Flanigan A-2	35015219430000	31	sw ne ne	9728	9896	n/a	168	n/a
Nowka 1	35015218160000	32	sw	9750	9911	10295	161	384
Theissen 1	35015209380000	32	ne se nw	9737	9896	10287	159	391
Theissen 2	35015220640000	32	c se	9753	9913	10290	160	377
Garrett 1	35015209870000	33	c sw	9758	9929	10300	171	371
Weathers 1	35015220710000	34	w/2 sw ne	9643	9811	10176	168	365
Marshall Smith 1	35015210060000	34	c sw	9684	9846	10218	162	372
Coffey 1	35015216020000	35	sw nw	9603	9757	10124	154	367

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 13W</b>								
Foster Farms 1	35015218040000	1	c sw ne	9194	9323	9671	129	348
Cantrell 1	35015210300000	1	e/2 e/2 e/2 sw	9250	9387	9725	137	338
Opal 1	35015219510000	5	ne	9277	9413	9763	136	350
Majors 1	35015216260000	5	ne	9279	9409	9763	130	354
Buckmaster 1	35015212810000	5	c n/2 n/2 sw	9407	9542	9917	135	375
Winsor 1	35015208490000	6	c n/2 ne	9314	9443	9810	129	367
Payne 1	35015221880000	6	w/2 nw ne	9327	9450	9808	123	358
Christina 1	35015219320000	7	w/2 e/2 se	9507	9630	10007	123	377
Joyce A 1	35015209920000	8	c sw ne	9430	9553	9937	123	384
Frost 1	35015226040000	9	nw	9400	9535	9919	135	384
Sarah 1	35015209650000	10	sw	9422	9560	9941	138	381
Palmer 1	35015209490000	11	n se	9402	9539	9900	137	361
Meacham 1	35015215590000	12	c ne	9298	9439	9778	141	339
Heidebrecht 1	35015209830000	13	c sw ne	9496	9632	10006	136	374
Vola Mae 1	35015218640000	14	c se sw	9526	9668	10061	142	393
Wheeler 1	35015218970000	14	ne	9471	9621	9981	150	360
Majors 1	35015212250000	15	c e/2	9503	9643	10033	140	390
Heger 1	35015217410000	17	sw nw se	9556	9693	10095	137	402
Clandry 1	35015219100000	17	s/2 nw nw	9514	9649	10041	135	392
Herman 1	35015217520000	18	nw	9612	9731	DNLS	119	n/a
Glass 1	35015220540000	18	sw sw	9633	9773	10180	140	407
Carney 1	35015218990000	18	w/2 se	9611	9753	DNLS	142	n/a
Kimble 1	35015220630000	19	sw	9692	9835	DNLS	143	n/a
Coy 1	35015218090000	19	c se se	9690	9841	DNLS	151	n/a
Armstrong 1	35015203710000	19	c sw ne	9672	9817	10226	145	409
Cox 1	35015211480000	20	e/2 e/2 e/2 nw	9609	9746	10159	137	413
Raymond Cox 1	35015219150000	20	e/2 nw nw	9622	9765	10172	143	407
Mol 1-20	35015216870000	20	sw sw	9682	9829	10223	147	394
Rust 1	35015202910000	21	c nw se	9605	9745	10145	140	400
Rust 1-22	35015216090000	22	nw	9565	9715	10107	150	392
H.W. Entz 1	35015210420000	23	n/2 s/2 s/2 ne	9582	9722	10116	140	394
Jessie 1	35015220970000	24	nw se nw	9564	9707	10094	143	387
Jean Epperly 1	35015209590000	24	c se	9615	9765	10161	150	396
Entz 1	35015209550000	25	c ne	9648	9811	10210	163	399
Henry Entz 1	35015214600000	25	s/2 s/2 s/2 ne	9691	9844	10240	153	396
Warren 1	35015217120000	25	c sw sw	9726	9883	DNLS	157	n/a
Neuton 1	35015208730000	26	c sw ne	9695	9844	10245	149	401
Blanche 1	35015217670000	26	sw	9727	9880	DNLS	153	n/a
Coe Farms 1	35015218610000	27	se	9700	9850	DNLS	150	n/a
Talkington A-1	35015212940000	27	c ne ne	9670	9820	10225	150	405
Entz 1	35015215790000	27	nw nw se	9705	9850	10260	145	410
Lawless 1	35015218790000	28	nw se se	9689	9836	NDE	147	n/a
Triplett Unit 1	35015217310000	29	s/2 n/2 se	9722	9867	10282	145	415
Majors 1	35015218930000	29	n/2 s/2 ne	DNLS	DNLS	10239	n/a	n/a
Faye 1-29	35015223520000	29	c n/2 nw	DNLS	DNLS	10245	n/a	n/a



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Connor 1	35015216880000	30	c ne	9730	9877	NDE	147	n/a
Wyatt 1	35015221290000	30	se se	DNLS	DNLS	10313	n/a	n/a
Kaidkous 1	35015218200000	30	e/2 nw nw	9743	9890	10296	147	406
Dennison 1	35015218670000	31	ne	9787	9932	10373	145	441
Crain 1	35015211790000	32	ne ne ne sw	9812	9972	10396	160	424
Wilson 1	35015221460000	32	s/2 n/2 s/2 ne	9750	9896	10337	146	441
Wilson 2	35015221810000	32	c n/2 ne	9735	9878	10310	143	432
Tate 1	35015221310000	32	s/2 n/2 s/2 ne	DNLS	DNLS	10364	n/a	n/a
Harry Unit 1	35015217840000	33	ne ne	9690	9841	NDE	151	n/a
Buell 1	35015217160000	34	ne se	9730	9880	10290	150	410
Byrum 1	35015221030000	34	sw sw	9776	9926	10353	150	427
Brown 1	35015217620000	35	c ne	9749	9907	10302	158	395
Harvey 1-36	35015225220000	36	sw ne ne	DNLS	DNLS	10334	n/a	n/a
Carney 1	35015217440000	36	c s/2 nw	n/a	9903	10309	n/a	406
Ottinger 1	35015212850000	36	c ne	9716	9870	10284	154	414
Kimble 1	35015203730000	36	c se	9751	9898	10319	147	421

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>12N 14W</b>								
Ashby 1-1	35039217430000	1	ne/4	9371	9498	9855	127	357
Larson - Moody 1	35039206470000	1	sw sw	9441	9556	9934	115	378
Berrong 1	35039206020000	2	n/2 sw	9514	9642	10017	128	375
Industrial Dev. Trust 1	35039213120000	2	ne se nw	9484	9607	9971	123	364
SW OSU 1	35039204350000	3	ne	9502	9621	9998	119	377
Lawrance Steiner 1	35039200870000	4	c nw	9542	9654	10058	112	404
Dean Wright 1	35039206390000	10	ne	9603	9710	10120	107	410
Troxel 2-11	35039212120000	11	nw	9581	9705	10085	124	380
Troxel 1-11	35039206790000	11	nw	9580	9702	10091	122	389
Crowder 1	35039212430000	11	se se se	9679	9822	10216	143	394
Self 2-12	35039217540000	12	se se	DNLS	DNLS	10047	n/a	n/a
Irene 1	35039216810000	12	c se sw	9600	9732	NDE	132	n/a
Alice 1-12	35039212030000	12	c s/2 se	9540	9669	10067	129	398
D.D. Duke 1	35039205730000	12	c nw	9523	9653	10033	130	380
Opal 1-13	35039210720000	13	sw/4	9707	9841	NDE	134	n/a
Randolf 1	35039213100000	13	sw sw ne	9643	9781	10192	138	411
Taylor 1	35039216000000	13	se	9670	9819	10240	149	421
Randolf 2	35039217600000	13	ne	9597	9722	10134	125	412
McCulloch 1	35039212190000	13	nw	9636	9773	10184	137	411
Shirley 1	35039211840000	13	sw	9685	9825	10242	140	417
Anna 2	35039217790000	14	sw	9666	9804	NDE	138	n/a
Anna 1	35039211220000	14	se	9724	9862	NDE	138	n/a
Taylor 1	35039207240000	15	c ne	9734	9845	10285	111	440
Edna 1	35039211450000	15	w/2 se sw	9754	9872	10318	118	446
Johnston 1	35039210450000	15	s/2 nw se	9733	9843	10293	110	450
Buckmaster 1	35039201780000	16	c se	9786	9920	10342	134	422
Kerr 2	35039211080000	19	sw sw	9931	10065	10537	134	472
Dale Schomp 1	35039204510000	20	c sw	9931	10073	10527	142	454
Hunnicut 1	35039210000000	21	c s/2 se	9875	10019	10463	144	444
Adler Unit 1	35039210460000	22	sw sw se	9805	9940	10413	135	473
Adler Unit 2	35039212050000	22	c s/2 sw	9814	9942	10416	128	474
Umbach 1	35039207050000	22	ne	9756	9886	10352	130	466
Steiner 1	35039216870000	23	sw	9753	9884	10317	131	433
Albright Farmer 1	35039207060000	23	ne	9746	9881	10307	135	426
Albright Farms 1	35039210870000	23	e/2 ne nw	9757	9879	NDE	122	n/a
Albright Farms 2	35039217370000	23	nw nw se nw	9759	9887	10342	128	455
Folks 4	35039216790000	24	nw	9725	9864	10270	139	406
Folks 3	35039216500000	24	sw	9770	9910	10340	140	430
Folks 2	35039210700000	24	ne ne	9700	9840	10261	140	421
Pete 2	35039219240000	25	sw nw se sw	9819	9959	10414	140	455
Madge 1	35039212140000	25	ne	9767	9917	10331	150	414
Sonat Hamilton 2	35039217170000	25	nw nw se nw	9771	9917	10342	146	425
Hamilton 3	35039217310000	25	nw	9800	9943	10374	143	431
Cartwright 1	35039203480000	26	c nw	9823	9965	10415	142	450

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Cartwright 2	35039213350000	26	sw nw	9844	9989	10454	145	465
Hamilton Unit 1	35039210400000	26	sw nw ne	9820	9966	10396	146	430
Hayes 1	35039200550000	27	c se	9908	10050	10530	142	480
Wilkes 2	35039215450000	27	ne	9853	9990	n/a	137	n/a
Vaughn 1	35039209600000	28	c ne sw sw	9948	10103	10568	155	465
Griffin Vaughn	35039212890000	28	c nw	9913	10070	10518	157	448
Vaughn Unit 1	35039207680000	28	w/2 w/2 e/2 sw	9955	10115	10590	160	475
Buckmaster Vaughn 1	35039210810000	28	e/2 nw ne	9888	10045	10486	157	441
Edwards 1	35039207070000	29	nw se	9935	10100	10570	165	470
Hunnicut Unit 2	35039209700000	29	c nw	9970	10125	NDE	155	n/a
Hunnicut Unit 3	35039210790000	29	s/2 n/2 sw	9985	10151	n/a	166	n/a
Hunnicut Unit 4	35039212690000	29	ne	9941	10101	10547	160	446
WD Leanard 3	35039211870000	30	ne	9950	10103	n/a	153	n/a
WD Leanard 2	35039210140000	30	sw sw	10013	10171	10627	158	456
WD Leanard 1	35039202920000	30	c sw ne	9962	10117	10569	155	452
Repp 1	35039207080000	31	sw	10079	10240	n/a	161	n/a
Strauser 1	35039201130000	31	nw se	10061	10225	n/a	164	n/a
Hamburger 1	35039210470000	32	sw ne ne	9996	10161	10637	165	476
Lowry Farms 1	35039213260000	32	c se nw nw	10025	10188	10659	163	471
Larry 1-33	35039208440000	33	c e/2 nw	10001	10170	10645	169	475
Quiring 1	35039209110000	34	c sw	9994	10164	10636	170	472
Schmidt 1	35039211890000	34	nw se se	9968	10130	10612	162	482
Nutry 2	35039217710000	35	sw	9968	10127	10606	159	479
Nutry 1	35039211200000	35	sw sw	9977	10143	10619	166	476
Nichols 1	35039207470000	35	c sw	9974	10143	10612	169	469
Helena Dick 1	35039205690000	36	c s/2 nw	9874	10029	10494	155	465

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 7W</b>								
Grellner 1-1	35017216110000	1	c se se	6597	6677	n/a	80	n/a
Wehmuller 2	35017218270000	2	c nw sw	6725	6797	n/a	72	n/a
Mervelot 1	35017211150000	3	c ne ne	6726	6801	6935	75	134
Bohlman 1	35017220480000	3	se	6755	6829	6973	74	144
Brinkley 1	35017221800000	3	se sw	6806	6883	7033	77	150
Hufnagel 1	35017211080000	4	c se se	6859	6933	7076	74	143
Concho 1	35017300180000	6	se nw	7027	7111	7275	84	164
Cheyenne Arapahoe 1	35017213000000	8	se	6992	7072	7227	80	155
Wehmuller 1	35017206100000	9	ne	6907	6980	7125	73	145
Siegrist 1	35017213480000	9	nw se	6905	6978	7131	73	153
Siegrist 2	35017214460000	9	w/2 w/2 ne	6899	6978	7118	79	140
Siegregst 3	35017219440000	9	c se sw	6947	7027	7180	80	153
Siegregst 9-4	35017219340000	9	se nw nw	6913	6991	7150	78	159
Siegregst 9-1A	35017231180000	9	c se	6894	6969	7114	75	145
Hufnagel 1	35017210720000	10	c sw sw	6818	6893	7023	75	130
Beecher 1	35017213280000	11	c sw sw	6787	6865	6989	78	124
Schwartz 1	35017230070000	11	sw ne	6725	6795	6928	70	133
Willis Ellis 1	35017207980000	11	c se se	6740	6819	6939	79	120
Lucas 1	35017215680000	12	c se ne	6682	6759	6886	77	127
Smith 1	35017216000000	12	c ne se	6647	6722	6837	75	115
Burns A-1	35017215870000	12	c ne nw	6665	6742	6874	77	132
Crose A-1	35017203940000	12	c sw	6699	6775	6897	76	122
Heckes 1	35017207580000	13	c ne ne	6709	6785	6899	76	114
Hunt 1	35017207840000	13	c ne nw	6713	6790	6906	77	116
Carroll 1	35017207620000	13	c ne sw	6752	6830	6948	78	118
Bohlman 1	35017207220000	13	c ne se	6728	6800	6911	72	111
Palmer 1	35017207740000	14	c ne	6770	6847	6969	77	122
Palmer 2	35017221620000	14	c se	6776	6855	6978	79	123
Palmer 3	35017230000000	14	sw ne sw	6827	6907	7041	80	134
Morris 1	35017212180000	15	c sw	6916	6989	7124	73	135
Addison 1	35017216300000	15	c se	6875	6949	7089	74	140
Deatherage 2	35017219490000	16	c ne	n/a	7006	7155	n/a	149
Cheyenne Arapaho 1	35017215120000	17	c nw se	7033	7113	7263	80	150
Cheyenne 1	35017218620000	18	c se	7143	7222	7385	79	163
Tribal 1	35017216620000	19	nw se	7190	7280	7443	90	163
Tribal 1-20	35017215710000	20	c nw se	7109	7186	7336	77	150
Schumacher 1	35017000610000	22	c sw ne	6928	7000	7139	72	139
Schumacher 1	35017000920000	22	c ne ne	6887	6960	7099	73	139
Schumacher 3	35017218820000	22	nw sw	6959	7035	7178	76	143
Schumacher 4	35017218900000	22	nw nw	6962	7032	7172	70	140
Hardy 1	35017208410000	23	c sw	6888	6962	7087	74	125
Hardy 2	35017222580000	23	c se	6847	6922	7042	75	120
Hardy 4	35017223190000	23	nw nw se nw	6886	6962	7089	76	127
Wilds 1	35017216630000	24	c ne ne	6762	6837	6955	75	118

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Wilds 1	35017203380000	24	c ne se	6789	6859	6975	70	116
Cobble 1-24	35017211380000	24	c n/2 nw	6758	6836	6956	78	120
Cobble 2-24	35017211640000	24	c nw sw	6813	6893	7008	80	115
Oyler 2	35017213100000	25	e/2 w/2 ne	6843	6913	7028	70	115
Mason 3	35017222080000	26	c sw sw	6972	7045	7175	73	130
Mason 4	35017222180000	26	c nw	6922	6985	7121	63	136
Mervelot 2	35017222010000	27	c sw	7041	7105	7256	64	151
Mervelot 3	35017222360000	27	c se nw	7014	7087	7231	73	144
Mervelot 4	35017222950000	27	c se	7013	7084	7222	71	138
Wolf 29-1	35017218730000	29	c nw se	7201	7271	7423	70	152
West 30-1	35017223750000	30	nw se	7301	7376	7538	75	162
Miller 2	35017216700000	30	se sw	7348	7423	7587	75	164
Miller 3	35017216640000	30	c se ne	7233	7318	7478	85	160
Miller 4	35017216650000	30	se nw	7287	7365	7532	78	167
Floyd Miller 1	35017211790000	31	se nw	7420	7495	7659	75	164
Floyd Miller 2	35017215340000	31	c s/2 nw se	7407	7487	7644	80	157
Floyd Miller 3	35017216660000	31	c nw sw	n/a	7575	7740	n/a	165
Floyd Miller 4	35017216670000	31	nw ne	7350	7422	7587	72	165
Hunt 32-2	35017215780000	32	c nw se	7253	7333	7481	80	148
Hunt 4	35017217120000	32	c sw nw ne	7226	7312	7464	86	152
Lottie Jones 1	35017211270000	33	c nw se	7148	7220	7361	72	141
L Jones 2	35017215010000	33	se ne	7115	7191	7330	76	139
L Jones 4	35017215210000	33	c se nw	n/a	7217	7366	n/a	149
Jensen 2	35017214420000	35	nw sw	6996	7073	7211	77	138
Jensen 3	35017214430000	35	c se ne	6981	7057	7187	76	130
Jensen 4	35017214440000	35	se ne	6946	7026	7151	80	125
Dick Jensen 1	35017201500000	35	c sw ne	6953	7025	7159	72	134
J & J Farms 1	35017208780000	36	se ne sw ne	6880	6953	7073	73	120

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 8W</b>								
Laub 1	35017219110000	5	c nw	7442	7532	7736	90	204
Reese 2-6	35017224120000	6	s/2 nw sw	7611	7711	7935	100	224
Crouch 1	35017207230000	6	c n/2	7513	7617	n/a	104	n/a
Crouch 2	35017223910000	6	c w/2 se nw	7574	7682	NDE	108	NDE
Burkhead 1	35017223010000	6	c nw se	7580	7682	NDE	102	NDE
Jack Evans 1	35017222660000	7	se nw	7637	7737	7978	100	241
Spear 1-8	35017221710000	8	c nw	7560	7655	7884	95	229
La Flore 1-11	35017214890000	11	ne	7239	7328	n/a	89	n/a
Spear 1	35017211960000	17	c ne	7616	7713	n/a	97	n/a
Ralph Royce 1	35017221250000	17	w/2 w/2 e/2 sw	7677	7776	8025	99	249
Ruby 1	35017222720000	17	c s/2 sw nw	7672	7771	8017	99	246
Wright 1	35017226850000	17	sw ne	7624	7713	7964	89	251
Whitley 1-17	35017222390000	17	c sw se	7662	7762	n/a	100	n/a
Whitley 2-17	35017223740000	17	c w/2 nw se	7639	7736	7975	97	239
Virdin Royce 1	35017221900000	17	c sw sw	7698	7800	8054	102	254
Haley A-1	35017229930000	17	se se ne	7595	7688	7921	93	233
Royce Brothers 5	35017223760000	17	c ne nw	7651	7747	7991	96	244
Reese 1	35017221370000	18	c se nw	7722	7827	8053	105	226
Reese 18-11	35017226280000	18	c sw se	7744	7844	NDE	100	NDE
Reese 18-3	35017223970000	18	c se se	7727	7828	8082	101	254
Waldo 18-14	35017228710000	18	c ne sw	7747	7852	n/a	105	n/a
Ruth 19-1	35017222820000	19	c ne ne	7744	7844	NDE	100	NDE
Levon 19-1	35017219050000	19	c nw se	7797	7889	8124	92	235
J & J 1	35017227230000	19	c ne nw	7758	7861	8115	103	254
Reding 1	35017219600000	20	c se nw	7699	7795	8038	96	243
Laub 1	35017231830000	21	sw nw nw	7611	7703	7937	92	234
Meschberger 1	35017218350000	21	c ne	7566	7649	7876	83	227
England 1	35017217160000	22	c nw	7537	7620	7829	83	209
Mervelot 1	35017212030000	23	c se nw	7423	7498	7700	75	202
Clark 1	35017223250000	29	se nw	7781	7866	NDE	85	NDE
Nitzel 1-30	35017218360000	30	c ne	7821	7915	8142	94	227
Crowler 1	35017220530000	31	w/2 ne	7878	7960	8192	82	232
Henry 1	35017217240000	32	c sw sw	7825	7910	8140	85	230
Husmann 1	35017225910000	32	c sw nw	7816	7901	8131	85	230
U.S. Gov. 1	35017000650000	34	ne sw	7667	7753	7970	86	217

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 9W</b>								
Bernemann A-1	35017227910000	1	e/2 sw ne	7650	7752	7988	102	236
Gambell 1-A	35017235640000	1	nw	7674	7779	8009	105	230
Laub 1	35017236540000	2	c nw	7770	7880	8106	110	226
Anne Leck 1	35017200760000	2	sw	7765	7877	8115	112	238
Leck 1-2	35017205900000	2	c sw	7790	7902	8138	112	236
Evans 1-3	35017229320000	3	e/2 se	7800	7912	8148	112	236
Ernest Stanton 1	35017500080000	3	c se nw	7824	7934	8173	110	239
Red Eagle 1	35017228080000	3	ne	7764	7874	8110	110	236
Evans A-1	35017236120000	3	sw sw ne sw	7807	7929	8158	122	229
Stroud Federal 1	35017235490000	3	sw	7817	7935	8167	118	232
J.C. Pavy 3-10	35017234220000	10	nw nw	7829	7967	8226	138	259
J.C. Pavy 1	35017200210000	10	sw	7909	8030	8281	121	251
Crawley 1	35017204950000	11	c sw	7855	7970	8231	115	261
Leck 1	35017215630000	11	nw	7795	7909	8140	114	231
Betty O 1	35017233690000	11	sw	7778	7886	8117	108	231
Hanska 1	35017217610000	12	sw	7724	7827	8059	103	232
Marie Morris 1	35017228770000	12	c se nw	7708	7815	8043	107	228
White 12-3	35017226980000	12	c ne	7662	7773	7996	111	223
Crowley 1-13	35017231840000	13	nw	7782	7888	BL	106	n/a
Truitt A-1	35017219760000	13	ne sw ne	7778	7888	8128	110	240
Eagan Unit 1	35017200150000	14	c sw	7894	8009	8264	115	255
Eagan 1	35017205940000	14	c nw	7872	7993	BL	121	n/a
Gambel 1	35017228030000	14	c w/2 nw ne	7822	7932	8184	110	252
Hufnagel Unit 1	35017301770000	15	c se	7923	8034	8250	111	216
Hufnagel 3	35017234470000	15	sw sw	7945	8065	8294	120	229
Lowder 1	35017300150000	22	se nw	7985	8098	8318	113	220
Lowder A-1	35017207990000	22	c sw	8000	8111	8329	111	218
Shaffer 1-23	35017228990000	23	c sw sw	7960	8073	8313	113	240
Shaffer 1	35017201110000	23	c sw	7927	8042	8284	115	242
Shaffer 1	35017200050000	23	c nw	7961	8078	8331	117	253
Smith 1	35017231060000	23	se	7914	8023	8244	109	221
Siegrist 1	35017231360000	24	w/2 nw	7874	7985	8234	111	249
Coffey A-1	35017219740000	24	sw	7867	7967	8197	100	230
Ellison Unit 1	35017200350000	25	c sw	7946	8045	8277	99	232
Shuttee A-1	35017219750000	25	se	7898	7998	8233	100	235
Ellison 1	35017202960000	25	c nw	7917	8019	8241	102	222
Henrietta 1	35017230290000	26	c w/2 sw	8052	8162	8392	110	230
Crump Unit 1	35017200130000	26	c nw	7991	8096	8319	105	223
Hunt 1	35017200040000	27	nw	8037	8155	8370	118	215
Howe Gas 2	35017203240000	34	c ne	8094	8210	8448	116	238
Von Tungeln 1	35017224690000	35	c nw nw	8060	8178	8408	118	230
R.P. 1	35017234060000	35	ne	8044	8151	8385	107	234
Von Tungeln B-1	35017200860000	35	c nw	8062	8174	8402	112	228
Coffey 1	35017222600000	36	ne	7953	8048	DNLS	95	n/a

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 10W</b>								
Peter 2	35017229880000	1	e w ne	7974	8112	8355	138	243
Boettger 1-1	35017230020000	1	sw n se	8007	8139	8403	132	264
Holding Together 1	35017203660000	2	e w ne	8001	8132	8372	131	240
LeVan 1	35017204310000	4	c ne	8110	8240	8505	130	265
Yellow Hair Unit 1	35017209050000	4	c nw	8132	8266	8521	134	255
B.D.Magnus Unit 1	35017200550000	4	c sw	8155	8295	8545	140	250
Magnus Unit B-1	35017200870000	5	sw	8222	8369	8633	147	264
Magnuss 1-5	35017224890000	5	nw	8174	8320	8560	146	240
C.A. Rhodes 1	35017200920000	6	se nw se	8218	8368	8618	150	250
Berg 2	35017203130000	6	c sw	8281	8435	n/a	154	n/a
Berg 1	35017202260000	6	c ne	8205	8341	8601	136	n/a
Huff 7-A	35017223840000	7	c n nw	8282	8428	8694	146	266
Muncy 1	35017210250000	7	c se	8316	8462	8703	146	241
Robinson C-2	35017203990000	7	nw	8340	8488	n/a	148	n/a
Robinson C 1	35017200610000	7	ne	8282	8435	8692	153	257
Robinson B 1	35017200480000	8	c se nw	8260	8400	8635	140	235
Eads 1	35017200650000	9	ne sw	8212	8356	8582	144	226
Eads 1	35017203670000	9	c sw	8220	8348	8598	128	250
Eads 1	35017207660000	9	c n se	8228	8376	8594	148	218
Judith 1	35017231200000	9	sw sw	8329	8466	8696	137	230
Magnuss 1	35017219290000	9	nw	8193	8338	8566	145	228
Renfrew Unit 1-A	35017203110000	10	c se	8204	8347	8574	143	227
Renfrew Unit 1	35017202500000	10	se nw se	8202	8344	8564	142	220
Jackson Unit 1	35017300160000	11	sw sw	8180	8328	8585	148	257
Wharton 2-12	35017226990000	12	c se	8081	8217	8438	136	221
Wharton 1	35017206060000	12	c ne	8036	8170	8380	134	210
Brown 1	35017206270000	13	c sw	8166	8293	8535	127	242
Smith Brown 1	35017225200000	13	ne	8117	8257	8475	140	218
M.R. Bankhead 1	35017200200000	13	se nw se	8143	8283	8504	140	221
Mattie C. Nichols 1	35017200060000	14	c se nw	8191	8331	8546	140	215
Bessie 1	35017232400000	14	e nw ne	8162	8294	8533	132	239
Austin F-1	35017229510000	15	c sw	8304	8454	8727	150	273
Maxey Unit 1	35017200340000	15	c se	8255	8410	8650	155	240
State 1-16	35017200960000	16	c nw	8288	8439	8669	151	230
Hart 1	35017205860000	16	c s	8336	8481	8752	145	271
Rhoades 1	35017212170000	17	nw	8351	8501	8766	150	265
Huff 1-17	35017230040000	17	w w se	8371	8521	8760	150	239
North Unit 1	35017201040000	17	ne	8326	8472	8732	146	260
Tomkinson 17-1	35017227540000	17	sw sw	8396	8547	8786	151	239
Thunder Unit 1	35017203300000	18	w c n	8379	8529	8799	150	270
Ayers 1-18	35017228310000	18	ne se	8318	8466	8713	148	247
Cruse 1	35017203540000	19	c ne	8416	8561	8815	145	254
George Brown 1	35017219660000	19	c e/2 e/2 sw	8456	8599	8849	143	250
Huff 1	35017202920000	20	ne	8398	8549	8789	151	240



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Milligan 1	35017204580000	20	sw	8417	8571	8815	154	244
Erma Wosika 1	35017205230000	20	c e/2 e/2 se	8390	8546	8791	156	245
William 1-20	35017235890000	20	c se sw	8357	8514	8758	157	244
Leck Unit 1	35017202370000	21	sw	8355	8505	8743	150	238
E.R. Steele Unit 1	35017200530000	21	c se	8329	8476	8711	147	235
Leck 2-21	35017235240000	21	ne	8330	8481	8727	151	246
Steele Unit 1	35017200220000	22	ne ne sw	8277	8419	8673	142	254
E.R. Steele 2	35017207560000	22	c nw sw	8294	8426	8685	132	259
Bradford 1	35017231410000	22	sw	8310	8462	8725	152	263
Kitson 1	35017224700000	24	c ne se	8184	8322	8547	138	225
Girand 2	35017209330000	24	c se	8172	8306	8534	134	228
Girard Unit 1	35017200690000	24	c nw	8180	8308	8543	128	235
Walbaum 1	35017204840000	25	se nw se	8200	8341	8563	141	222
Stas Unit 1	35017200730000	25	c nw	8172	8308	8543	136	235
Rukes Unit 1	35017204150000	27	sw	8330	8470	8730	140	260
Buck Austin 2	35017235580000	27	sw	8311	8447	8686	136	239
Buck Austin 1	35017200630000	27	ne	8282	8430	8661	148	231
Austin 1-27	35017231930000	27	c s/2 n/2 sw	8325	8474	8710	149	236
Leck Unit 28-1	35017203060000	28	nw	8390	8538	8780	148	242
Leck Unit 2-28	35017205620000	28	se	8383	8534	8773	151	239
Leck 28-3	35017230910000	28	ne	8353	8500	8739	147	239
Brisco 1-29	35017212300000	29	c sw	8442	8590	8836	148	246
Betty Lou 1-29	35017238160000	29	ne ne sw	8426	8575	8818	149	243
Wade 1-29	35017235610000	29	nw	8442	8592	8840	150	248
Lyon 1	35017203180000	29	ne	n/a	8562	8801	n/a	239
Briscoe Unit 1	35017203320000	30	c nw se	8500	8651	8903	151	252
Briscoe 1-30	35017208460000	30	c sw	n/a	8692	8956	n/a	264
Pettigrew 1-31	35017207500000	31	c se	8610	8737	8999	127	262
Pettigrew 1-32	35017215500000	32	c nw	8513	8655	8903	142	248
Raymond Squires Unit 1	35017000550000	32	c se nw	n/a	8676	8929	n/a	253
Spurlin 1	35017203590000	32	c se	8581	8718	8976	137	258
Bode 1-32	35017237560000	32	sw	8563	8706	8955	143	249
Austin 1	35017206220000	33	c ne	8440	8587	8833	147	246
Austin 2	35017214710000	33	c nw	8466	8609	8859	143	250
Leck 33-1	35017204160000	33	sw	8538	8679	8926	141	247
Daisey B. Palmers 1	35017204350000	34	ne	8376	8521	8756	145	235
Daisey B. Palmers 2	35017234010000	34	sw	8442	8580	8840	138	260
Ward 1-35	35017229780000	35	sw nw	8251	8391	8626	140	235
DeLana 1	35017203830000	35	c sw	8377	8519	8765	142	246
DeLana 2-35	35017232560000	35	se	8382	8522	8767	140	245

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 11W</b>								
Coil 1	35011217660000	1	nw nw nw	8272	8397	8639	125	242
Geary Town Site-Taylor 1	35011204010000	1	ne ne	8249	8384	n/a	135	n/a
Gilbert Peck 1	35011205170000	2	c se	8345	8469	8724	124	255
Hudson 1	35011215930000	3	ne ne	8341	8478	8713	137	235
Gramlich 1	35011201520000	4	c sw ne	8402	8538	8788	136	250
Hays 1	35011210080000	7	s s ne	8525	8656	8925	131	269
Rivers 1	35011207930000	10	se	8466	8594	8881	128	287
White 1	35011205660000	11	c ne	8391	8530	8797	139	267
Garrison 1	35011205060000	12	c ne	8348	8493	8762	145	269
Biswell 1	35011206700000	12	sw	8399	8548	n/a	149	n/a
Drangoole 1	35011210290000	13	e w ne	8410	8558	8836	148	278
Rivers 1	35011207070000	14	c nw	8509	8645	n/a	136	n/a
Wiemer Unit 1	35011203460000	14	c sw ne	8497	8651	8938	154	287
Williams 1	35011208700000	15	c ne	8503	8635	8927	132	292
Smith 1	35011205200000	15	c se	8531	8657	8976	126	319
Rackley 1	35011223610000	15	sw	8552	8695	9000	143	305
State Rex 1	35011214990000	16	se	8564	8706	9004	142	298
Carrick 1	35011216270000	17	ne	8546	8675	8953	129	278
Going Up Hill 1	35011000360000	17	sw se	8534	8657	8936	123	279
Arthur 1	35011210240000	19	c sw ne	8785	8927	9212	142	285
Whitehouse 1	35011217310000	20	c se	8612	8746	9058	134	312
Bernhardt Unit 1	35011203750000	20	se	8609	8746	9045	137	299
Young 1	35011204840000	22	nw nw nw	8575	8718	n/a	143	n/a
Praire Woman 1	35011209410000	24	c ne	8457	8605	8857	148	252
Dolen 1	35011221460000	25	c sw ne	8586	8726	8986	140	260
Dollie 1	35011208010000	26	c s/2	8645	8792	9065	147	273
Seitler A 1	35011203980000	27	sw	8638	8780	9062	142	282
Ralph Owens 1	35011202700000	29	c sw ne	8870	9008	9319	138	311
Fudd 3-29	35011229300000	29	ne	8738	8880	9197	142	317
Owens 2	35011207020000	29	c se	8817	8962	9282	145	320
Peck 1	35011207720000	30	se se	8900	9046	9377	146	331
Gilbert Peck Unit 1	35011203140000	30	c ne	8827	8972	9281	145	309
Whitnah 1	35011226460000	31	c ne	8916	9066	9371	150	305
Cooley 2	35011223440000	31	c sw ne	9010	9161	9457	151	296
Edna 1-31	35011225980000	31	nw	8932	9075	9392	143	317
Kitson 1	35011206610000	32	c nw	8880	9022	9333	142	311
Ferrell 1	35011205550000	32	c ne	8870	9017	n/a	147	n/a
Hall 1	35011204530000	33	c nw	8826	8966	9250	140	284
Wheeler 1	35011208050000	33	e/2 e/2 nw	8801	8942	9239	141	297
Shawyer Unit 1	35011208610000	36	w/2 w/2 e/2 ne	8633	8763	9028	130	265

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 12W</b>								
Burns 1	35011216060000	1	c e/2 sw	8470	8602	8867	132	265
Berg A-1	35011215020000	2	c ne	8463	8607	8879	144	272
Hilda Houston 1	35011210090000	3	c sw	8578	8726	8996	148	270
Wright 1-3	35011208740000	3	nw/4	8523	8669	8934	146	265
Ida 1	35011226680000	4	sw/4	8456	8595	8857	139	262
Groendyke hall 1	35011208670000	4	c sw	8520	8669	8931	149	262
Limpy 1	35011225480000	5	nw/4	8535	8678	8952	143	274
Andy Payne 1	35011209040000	5	w/2 e/2	8430	8565	8838	135	273
Maib 1	35011228450000	6	sw/4	8593	8732	9020	139	288
Groendyke 1	35011209660000	6	c ne ne	8540	8682	8952	142	270
Kent 1	35011207260000	7	nw se	8688	8830	9110	142	280
Maib 1	35011228070000	7	sw ne	8652	8792	9078	140	286
Groendyke 2	35011226980000	8	sw	8677	8819	9098	142	279
Hall 1	35011209460000	8	e/2 ne	8582	8717	9004	135	287
Groendyke 1	35011221790000	8	w/2 ne nw	8599	8738	9028	139	290
Clarence 1	35011220800000	8	sw nw	8660	8797	9077	137	280
Medicine Woman 1	35011224640000	9	s/2 s/2 n/2 sw	8667	8814	9082	147	268
Groendyke Hall A-1	35011206720000	9	c se	8692	8841	9135	149	294
Groendyke 1	35011227720000	10	c nw	8646	8796	9071	150	275
Groendyke Hall 1	35011206530000	10	c sw	8709	8856	9137	147	281
Hadley 1	35011209640000	11	c nw	8690	8835	9117	145	282
Howling Woman 1	35011218550000	12	se sw ne	8519	8647	8914	128	267
Lola 1	35011209520000	13	c sw	8753	8888	9173	135	285
Glenn Moore 1	35011209240000	14	nw nw ne sw	8766	8911	9201	145	290
Reimers 1	35011205760000	15	c sw	8827	8973	9264	146	291
Sherman 1	35011208780000	16	c n/2	8743	8887	9182	144	295
Duncan 1	35011202750000	16	c sw	8766	8915	9202	149	287
Kent 1	35011203880000	17	ne	8730	8866	9145	136	279
Groendyke 1	35011224020000	18	c w/2	8780	8918	9216	138	298
Swaggart 1	35011216130000	18	c s/2 sw ne	8754	8893	9177	139	284
Wrede 1	35011216600000	19	se ne	8828	8970	9260	142	290
Sooner 1	35011223680000	19	ne sw sw	8875	9010	9305	135	295
Della Kurtz 1	35011203030000	20	nw ne	8808	8951	9248	143	297
Wrede 1	35011216730000	20	c s/2 se	8868	9017	9293	149	276
Payne 1	35011202370000	21	ne	8859	9005	9309	146	304
Hocha Estate 1	35011203130000	22	ne	8887	9033	9338	146	305
Hocha Estate 2	35011218120000	22	nw	8874	9023	9329	149	306
Howling Woman 1	35011223320000	23	nw	8881	9031	9334	150	303
Siegman 1	35011209700000	23	c ne ne	8815	8955	9249	140	294
Siegman Z-1	35011209800000	24	nw/4	8823	8966	9254	143	288
Dollie 1	35011223710000	26	ne	8948	9103	9401	155	298
Kurtz 1	35011215490000	26	se	9006	9150	9459	144	309
Peck 1	35011203630000	26	c nw	8965	9118	9417	153	299
Swaggart 1	35011206300000	27	c nw	9006	9156	9460	150	304

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Swaggart 2	35011225800000	27	se	9029	9179	9479	150	300
F & D 1	35011207590000	28	c se	9046	9200	9506	154	306
Stough 1	35011205570000	28	c nw	8983	9136	9437	153	301
Frank 1	35011215710000	29	nw se	8969	9114	9425	145	311
William J. Reed 1	35011220260000	29	ne sw sw	8986	9110	9420	124	310
Buckmaster 1	35011217670000	30	c w/2	8948	9085	9397	137	312
Ruth 1	35011221150000	31	ne ne	9016	9150	9465	134	315
Friessen 1	35011218260000	31	ne	9034	9164	9482	130	318
Laubham Friessen 1	35011219650000	32	nw	8983	9114	9427	131	313
Opal 1-33	35011220230000	33	ne sw sw	9121	9265	9581	144	316
Trumbley 1	35011208080000	34	c ne	9080	9230	9544	150	314
Mordecai 1	35011208290000	36	c sw	9053	9208	9510	155	302
Mordecai 2	35011222280000	36	se	9071	9192	9493	121	301
Mordecai 3	35011225650000	36	sw ne	9000	9157	9460	157	303
Mordecai 4	35011227380000	36	se	9029	9180	9481	151	301

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 13W</b>								
Baker Unit 1	35011200460000	1	ne se ne	8560	8696	8970	136	274
Groendyke 1-1	35011228160000	1	c sw sw	8644	8785	9059	141	274
Groendyke 1-2	35011228330000	1	ne se ne	8579	8713	8994	134	281
Baker 1-B	35011351550000	1	se nw	8596	8724	8994	128	270
J. Groendyke 1	35011228470000	2	c ne	8608	8748	9019	140	271
Schantz 1	35011208710000	3	nw nw sw ne	8638	8778	9053	140	275
Eichelberger 1	35011205970000	4	s c ne	8643	8788	9057	145	269
Duncan 1	35011222790000	5	c se	8740	8885	9158	145	273
Slagell 1	35011219080000	8	c nw	8823	8971	9258	148	287
Della 1-10	35011221860000	10	se nw	8750	8889	9163	139	274
Paul Payne 1	35011202650000	10	nw nw sw ne	8749	8894	9164	145	270
Edna Mae 1	35011218240000	10	sw	8772	8908	9187	136	279
Vincent 1	35011220200000	11	sw	8746	8878	9153	132	275
Groendyke 1	35011220850000	11	e w se	8723	8868	9138	145	270
Groendyke 2	35011223940000	11	c ne	8694	8833	9108	139	275
Groendyke 2	35011223850000	12	sw sw ne sw	8699	8838	9120	139	282
Terrell 1	35011219050000	13	sw sw ne sw	8804	8939	9242	135	303
Groendyke 1	35011224360000	13	w n n ne	8753	8886	9184	133	298
Bixler 1	35011217300000	14	c sw sw	8816	8942	9239	126	297
Mary1	35011223760000	14	sw se	8797	8934	9228	137	294
Lubinus 1	35011217150000	15	c se	8836	8961	9266	125	305
Vincent 1	35011201900000	16	c sw ne	8879	9014	9301	135	287
Schantz 1	35011215610000	20	c ne	8990	9116	9421	126	305
Emelie 1-22	35011219170000	22	ne	8901	9031	9336	130	305
Slagell 1	35011210100000	22	c sw	8970	9104	9422	134	318
Nowka 1	35011217000000	23	ne	8868	9000	9308	132	308
Spies 1	35011227140000	23	nw nw sw ne	8860	8989	9284	129	295
Felton 1	35011216370000	24	sw	8894	9034	9353	140	319
Patricia 1	35011223950000	24	ne	8837	8972	9282	135	310
Freida 1-25	35011215000000	25	c nw	8949	9079	9407	130	328
Collins 1	35011207750000	26	c nw	8971	9103	9425	132	322
Buckmaster Farms 1	35011218720000	26	c ne	8951	9089	9411	138	322
Adkins 1	35011214410000	27	n n se	9052	9182	9502	130	320
Buckmaster 1	35011224040000	28	sw	9167	9304	9636	137	332
Tickel Unit 1	35011217250000	29	nw	9065	9194	9504	129	310
Hargrone Unit 1	35011216290000	31	c nw	9265	9386	9731	121	345
Buckmaster Farm 1	35011208490000	32	c ne	9207	9336	9678	129	342
Stubbs 1	35011225440000	35	c s n ne	9082	9202	9547	120	345
Stange Farms 1	35011223650000	35	c se	9155	9290	9623	135	333
Bird 1	35011217070000	36	ne	9067	9197	9529	130	332
Stubbs 1-36	35011223960000	36	sw	9119	9242	9581	123	339
Stubbs 2-36	35011227040000	36	sw	9128	9250	9590	122	340

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>13N 14W</b>								
Burl Taylor 1	35039202230000	1	sw	8817	8943	9233	126	290
Stutzman 1	35039200820000	4	c nw	8907	9028	9328	121	300
Deevers 1	35039213600000	5	sw	9040	9160	9469	120	309
Tarran 1	35039202390000	6	c e sw	9117	9238	9560	121	322
Frieda Mae 1	35039211430000	7	s sw se	9222	9343	9682	121	339
Fortner 1	35039201680000	7	n n se	9175	9298	9635	123	337
Albright 1	35039200380000	9	c ne sw	9032	9160	9467	128	307
Virgil 1	35039202280000	10	c ne sw	8947	9074	9372	127	298
Jackson 1	35039202110000	11	w w w ne	8928	9047	9344	119	297
Rowland 1	35039201730000	12	c nw	8884	9016	9303	132	287
Goldie 1	35039202120000	13	c nw	8995	9128	9427	133	299
Conkling 1	35039212680000	14	sw sw	9093	9218	9531	125	313
Kirkland 1-15	35039211720000	15	w e sw	9106	9231	9551	125	320
Mast 1	35039202710000	16	c sw	9158	9275	9600	117	325
Fancher 1	35039212340000	16	se	9113	9237	9553	124	316
USA Crall 1	35039201000000	17	c se	9221	9342	9674	121	332
Indian Unit 1	35039202490000	17	c ne sw	9141	9263	9592	122	329
Christensen 1	35039210620000	18	nw nw	9269	9384	9732	115	348
Gene D 1	35039203690000	18	sw	9320	9430	9770	110	340
Steiner 1	35039203470000	19	sw	9406	9516	9893	110	377
Roof 1	35039211810000	19	se	9375	9485	NDE	110	n/a
Cornell 1	35039216570000	19	se	9425	9531	NDE	106	n/a
Roof 2	35039216160000	19	ne	9352	9461	NDE	109	n/a
Goss 1	35039208810000	20	se	9310	9415	9786	105	371
Goss 2	35039216100000	20	sw se	9346	9451	NDE	105	n/a
Kliewer 2	35039217670000	20	c sw sw	9370	9475	NDE	105	n/a
Glen Miller 1	35039216360000	20	nw nw	9314	9419	NDE	105	n/a
Bergner 1	35039203350000	21	c ne	9180	9303	9623	123	320
Cunningham 1	35039203080000	22	c w se	9221	9345	9675	124	330
Steiner 1	35039204470000	22	n s sw nw	9193	9318	9648	125	330
Goucher 1	35039202570000	23	c sw	9195	9313	9643	118	330
Carmen 1	35039204040000	24	c sw	9146	9266	9585	120	319
Fred Bailey Unit 1	35039203360000	25	w w e sw	9283	9404	9744	121	340
Leroy 2	35039203490000	26	sw	9275	9390	9725	115	335
Marian Stutzman 1	35039206710000	26	ne	9222	9339	9674	117	335
Hippy 1	35039202930000	27	c ne	9292	9413	9743	121	330
Harton 1	35039212490000	28	w ne sw	9364	9469	NDE	105	n/a
Perkins 1	35039205930000	28	c se	9364	9465	9830	101	365
Eva Ashby Unit 3	35039213070000	29	sw	9361	9462	NDE	101	n/a
Ashby 6	35039216110000	29	nw nw	9414	9514	NDE	100	n/a
Eva Ashby 1	35039203840000	29	c sw	9456	9561	9946	105	385
Eva Ashby 5	35039215360000	29	9426	9426	9524	9913	98	389
Eva Ashby 7	35039216350000	29	nw nw	9369	9475	NDE	106	n/a
Eva Ashby 4	35039213490000	29	w w e sw	9455	9550	9935	95	385

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Bergman 1	35039203160000	30	nw nw	9488	9600	9973	112	373
Bergman 2	35039204180000	30	se sw se nw	9496	9591	9960	95	369
Bergman 3	35039215560000	30	nw nw	9470	9568	9942	98	374
Jewrell 1	35039212820000	30	se	9495	9587	9969	92	382
Hunnicutt 1	35039210160000	30	ne	9442	9542	NDE	100	n/a
Frizzell 1	35039206290000	31	ne	9548	9644	10031	96	387
Frizzell 1	35039206720000	32	c ne	9484	9576	9959	92	383
Ralph Crall 1	35039205740000	33	e nw	9435	9535	9916	100	381
Crall 3	35039212730000	33	n sw	9484	9584	9974	100	390
Crall B-2	35039208660000	33	nw se	9470	9576	9964	106	388
Kamm 1	35039213050000	34	c sw	9483	9589	NDE	106	n/a
City of Weathorford 1	35039205530000	34	se	9458	9556	9940	98	384
F.K. Bailey 1	35039210280000	35	sw sw	9477	9582	9957	105	375
Bailey A-1	35039206730000	35	sw	9420	9540	9899	120	359
Skeeter 1	35039216140000	36	sw sw ne	9320	9438	9780	118	342
Schutes Unit 1	35039203750000	36	ne	9300	9420	9760	120	340
Fred K. Bailey 1	35039207440000	36	nw	9340	9456	9801	116	345

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 7W</b>								
J.A. Wittrock 1	35017222140000	1	c ne nw	6281	6349	6491	68	142
Kroener 1	35017220190000	1	ne ne	6271	6334	6472	63	138
Schroeder 1	35017227980000	1	sw	6362	6428	6574	66	146
Ruth 1	35017228340000	1	sw se	6331	6393	6544	62	151
Schroeder B-1	35017300120000	4	se nw	6478	6550	6706	72	156
R.D. Gellner 1	35017300050000	5	c sw ne	6544	6611	6774	67	163
McCarthy 6-A	35017205850000	6	c se	6645	6712	6876	67	164
McCarthy 6-1	35017221500000	6	c nw ne	6610	6685	6851	75	166
McCarthy 1	35017218910000	6	c sw se	6661	6731	6897	70	166
Loosen-McCarthy 1	35017000290000	6	sw ne	6623	6693	6860	70	167
Ludwig 1	35017219710000	6	nw nw	6633	6706	6871	73	165
Rother 1-6	35017216190000	6	c sw	6670	6744	6909	74	165
Meyer 1	35017219880000	7	c se se	6707	6777	6946	70	169
Bradford 1	35017204450000	7	c ne	6677	6750	6913	73	163
Elmer 7-1	35017221240000	7	c se nw	6692	6763	6930	71	167
Grellner Roth 1	35017203210000	8	c ne	6598	6664	6829	66	165
Zum Mallen 8-2	35017214620000	8	nw se	6630	6694	6859	64	165
Zum Mallen 8-3	35017217010000	8	c nw sw	6678	6744	6912	66	168
Zum Mallen 8-4	35017219900000	8	nw ne	6607	6674	6837	67	163
Kastens 1	35017208860000	9	c sw	6613	6678	6844	65	166
Schwartz 1	35017219480000	9	c nw	6582	6648	6806	66	158
Schroeder 1	35017000540000	10	c ne sw	6517	6588	6746	71	158
Rother Unit 1	35017200520000	20	c ne	6715	6781	6950	66	169
Jacob D-1	35017211370000	27	se	6642	6702	6876	60	174
Rother 29-1	35017213250000	29	c ne nw	6802	6877	7047	75	170
Wiemann 1	35017213270000	29	c ne ne	6728	6798	6967	70	169
Girard 1	35017213240000	29	c ne se	6766	6838	7004	72	166
Schwartz 1	35017207420000	30	se	6848	6924	7104	76	180
Kunneman 1	35017207050000	30	c ne nw	6859	6931	7105	72	174
Kunneman 30-1	35017209540000	30	c ne ne	6838	6910	7083	72	173
Kunneman A-1	35017215060000	30	sw	6900	6972	7149	72	177
Baustert 1-31	35017216900000	31	ne nw	6942	7019	7202	77	183
Ballstert 31-1	35017210500000	31	c sw	6988	7066	7251	78	185
Allison 1	35017209970000	31	c ne ne	6897	6972	7156	75	184
Allison 31-1	35017219020000	31	sw se	6967	7044	7236	77	192
Zum Mallen 32-1	35017213290000	32	c ne ne	6814	6889	7061	75	172
Zum Mallen 1	35017219010000	32	ne se	6855	6927	7106	72	179
Kunneman 32-2	35017213060000	32	c ne sw	6873	6947	7095	74	148
Schieber 32-1	35017211160000	32	ne nw	6838	6910	7094	72	184



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 8W</b>								
Wittrock 1-1	35017214740000	1	c se nw	6723	6797	6966	74	169
Wittrock 1-2	35017220090000	1	c se ne	6664	6736	6901	72	165
Wittrock 1-3	35017220040000	1	se sw	6741	6817	6983	76	166
Wittrock 1-4	35017220080000	1	c se se	6731	6801	6968	70	167
Rother 2-1	35017212800000	2	sw	6798	6869	7040	71	171
Rother 2-2	35017220050000	2	c se nw	6804	6869	7039	65	170
Rother 2-3	35017221020000	2	c se ne	6766	6840	7010	74	170
Rother 2-4	35017221030000	2	se se	6781	6853	7024	72	171
Rother 3-1	35017214300000	3	c se	6834	6906	7077	72	171
Rother 3-2	35017220910000	3	se nw	6871	6947	7118	76	171
Rother 3-4	35017221270000	3	c se sw	6886	6958	7133	72	175
Grellner 1	35017218780000	4	c nw	6924	7003	7182	79	179
Kroutl 1	35017218280000	5	c nw	7036	7115	7300	79	185
Hufnagel A-1	35017214470000	6	sw	7075	7158	7348	83	190
Hufnagel A-2	35017223100000	6	se	7084	7138	7332	54	194
Hufnagel B-1	35017214970000	7	nw	7075	7159	7352	84	193
Hufnagel D-1	35017223120000	7	sw ne	7066	7148	7344	82	196
Hufnagel C-1	35017215430000	8	nw se nw	7027	7106	7294	79	188
Rother 9-A	35017205540000	9	c se	6983	7063	7234	80	171
Rother 10-1	35017215280000	10	c se	6876	6951	7124	75	173
Rother 11-4	35017221300000	11	c se sw	6848	6919	7089	71	170
Hoehing 1	35017213880000	13	c sw nw	6830	6902	7070	72	168
Heupel 1	35017215960000	16	c ne se	7016	7097	7283	81	186
Nicholson 16-1	35017221100000	16	se nw	7066	7143	7332	77	189
Schroeder 17-1	35017219940000	17	n/2 ne sw	7194	7274	n/a	80	n/a
Tech 1-17	35017218590000	17	c se	7187	7267	7464	80	197
Carnut 1	35017204460000	19	c e/2 sw	7341	7426	7630	85	204
Heupel 1	35017207310000	20	c nw	7244	7324	DNLS	80	n/a
Schroeder 1	35017000530000	21	c nw se	7143	7223	7423	80	200
Gleichman 1	35017216410000	22	ne	7010	7085	7275	75	190
Dorland 1	35017217560000	24	ne	6842	6912	7088	70	176
Wieman A-1	35017214600000	25	ne se	6921	6996	7181	75	185
Wiewel D-1	35017214670000	25	ne nw	6930	7008	7180	78	172
Keller C-1	35017214490000	25	c n/2 sw	6975	7053	7235	78	182
Ludwig 2-25	35017216320000	25	c ne ne	6890	6970	7141	80	171
Heupel 27-2	35017228380000	27	sw	7130	7210	7401	80	191
Rother 1-28	35017213300000	28	sw	7269	7349	7543	80	194
Miller 1	35017208970000	29	c sw	7346	7429	7636	83	207
Heupel 1-30	35017204800000	30	c nw	7406	7491	DNLS	85	n/a
Wiedemann 1	35017220700000	31	se	7455	7550	7761	95	211
Renbarger 1	35017216360000	33	c ne ne	7223	7296	7488	73	192
Wiewel 1-34	35017216380000	34	nw	7182	7262	7453	80	191
Keller D-1	35017214190000	36	c n/2 sw	7045	7122	7310	77	188
Keller E-1	35017214200000	36	nw nw	6993	7069	7259	76	190

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Wiewel A-1	35017207180000	36	c n/2 se	7053	7137	7323	84	186
Alig Trust A 2	35017231470000	1	nw	7092	7180	7387	88	207
Alig Trust A 1	35017224960000	1	ne	7078	7169	7372	91	203
Schweitzer A 1	35017217510000	1	c sw	n/a	7186	7398	n/a	212
Schroeder 1	35017232280000	1	se	7057	7145	7339	88	194
Schweitzer B 2	35017233510000	2	nw	7146	7234	7440	88	206
Schweitzer B 3	35017234030000	2	c n/2 n/2 sw	7175	7263	7470	88	207
Schweitzer 1	35017219450000	2	sw	7145	7234	7446	89	212
Schweitzer B 1	35017232020000	2	se nw ne	7114	7204	7411	90	207
Ahern 1-3	35017233830000	3	c ne	7177	7267	7463	90	196
Stroud 1	35017219270000	3	c nw	7192	7283	7482	91	199
Stroud A 1	35017222290000	4	ne	7256	7350	7537	94	187
Stroud 2-4	35017237230000	4	se	7244	7339	7541	95	202
Short Neck 1-5	35017220170000	5	c ne	7350	7453	7646	103	193
Tech 6-2	35017226660000	6	c sw sw	7509	7609	7819	100	210

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 9W</b>								
Alig Trust A 2	35017231470000	1	nw	7092	7180	7387	88	207
Alig Trust A 1	35017224960000	1	ne	7078	7169	7372	91	203
Schweitzer A 1	35017217510000	1	c sw	n/a	7186	7398	n/a	212
Schroeder 1	35017232280000	1	se	7057	7145	7339	88	194
Schweitzer B 2	35017233510000	2	nw	7146	7234	7440	88	206
Schweitzer B 3	35017234030000	2	c n/2 n/2 sw	7175	7263	7470	88	207
Schweitzer 1	35017219450000	2	sw	7145	7234	7446	89	212
Schweitzer B 1	35017232020000	2	se nw ne	7114	7204	7411	90	207
Ahern 1-3	35017233830000	3	c ne	7177	7267	7463	90	196
Stroud 1	35017219270000	3	c nw	7192	7283	7482	91	199
Stroud A 1	35017222290000	4	ne	7256	7350	7537	94	187
Stroud 2-4	35017237230000	4	se	7244	7339	7541	95	202
Short Neck 1-5	35017220170000	5	c ne	7350	7453	7646	103	193
Tech 6-2	35017226660000	6	c sw sw	7509	7609	7819	100	210
Hansen Unit B-1	35017200080000	13	ne sw	7354	7443	7654	89	211
Hansen 1	35017203470000	13	nw	7290	7376	7594	86	218
Schroeder 1	35017221940000	13	c ne	7254	7339	7544	85	205
Spencer Unit 1	35017300060000	14	ne sw	7359	7449	7659	90	210
Steanson B-1	35017300130000	15	c se	7383	7472	7697	89	225
G.M. Kennedy 1	35017500130000	16	sw ne sw	7387	7469	7686	82	217
Kennedy 1	35017201780000	16	se	7390	7482	7703	92	221
Mansfield A-1	35017220440000	16	ne	7348	7441	7651	93	210
Whitley Unit 1	35017500140000	17	ne sw	7536	7634	7857	98	223
Jameson 1	35017208450000	17	nw nw	7527	7623	7838	96	215
Moore 1-18	35017229170000	18	sw nw	7577	7677	7887	100	210
Jameson 1-18	35017202100000	18	c sw	7640	7741	7958	101	217
Jameson 2-18	35017211710000	18	n/2 n/2 s/2 ne	7571	7667	7886	96	219
Bad Eyes 1	35017202250000	19	c s/2 nw	7709	7808	8051	99	243
Mansfield 1	35017211280000	20	n n se se	7559	7659	7884	100	225
Hobson 1-20	35017218610000	20	c nw sw	7656	7760	7991	104	231
Hobson 1	35017234930000	20	c se sw	7604	7714	7938	110	224
Harrington 1	35017001100000	21	nw se	7514	7610	7835	96	225
M.L. Harrington 2	35017208890000	21	se ne	7456	7548	7768	92	220
Hobson 1-21	35017233530000	21	c sw	7523	7621	7846	98	225
Smith Unit G 1	35017500170000	22	sw ne sw	7483	7576	7804	93	228
Gary 1-22	35017234970000	22	nw	7464	7559	7785	95	226
Smith Unit G 2	35017230890000	22	ne	7460	7554	7775	94	221
GW 1-23	35017232460000	23	c swsw	7505	7600	7826	95	226
Moore Unit E 1	35017300070000	23	ne sw	7478	7571	7786	93	215
Tech 1-23	35017234960000	23	e e w nw	7414	7510	7716	96	206
Wilkerson 23-1	35017228920000	23	e c sw nw	7417	7510	7727	93	217
Reimers Unit 1	35017300110000	24	c ne sw	7417	7507	7709	90	202
Hansen 1	35017206010000	24	se se	7405	7483	7686	78	203
Hansen Farms 1	35017223830000	24	c e se	7389	DNLS	7684	n/a	n/a

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Sue 3	35017228750000	25	ne	7427	7512	7722	85	210
Moberly C-1	35017231440000	25	se	7477	7564	7790	87	226
Jay Jay 3	35017218790000	25	sw	7526	7617	NDE	91	n/a
Jay Jay 2	35017204220000	25	se se nw nw	7475	7566	7785	91	219
Stearson 1	35017500180000	26	se nw	7546	7638	7867	92	229
Stearson Unit 2	35017206370000	26	c e se	7502	7593	7819	91	226
Smallman Unit 2	35017230730000	27	c nw	7543	7641	7872	98	231
Richard Smallman 1	35017500190000	27	c ne sw	7598	7696	7929	98	233
Hansen 1-27	35017235100000	27	nw se se	7595	7691	7925	96	234
Eagan 1-28	35017232110000	28	n nw se ne	7545	7640	7865	95	225
Paints Yellow 1	35017000320000	28	c nw se	7617	7724	7954	107	230
Paints Yellow 2	35017235360000	28	se	7614	7714	7944	100	230
Vance Kenney 1	35017500200000	29	sw ne sw	7692	7795	8030	103	235
Kenney 1	35017217020000	29	se	7694	7801	8028	107	227
Jimmie Jack 1	35017235950000	29	sw sw	7766	7875	8107	109	232
Woman Warrior 1	35017202610000	29	c nw	7705	7808	8049	103	241
J.D. Small 1	35017500210000	30	nw se	7784	7896	8135	112	239
Moore 1-30	35017235760000	30	ne	7750	7866	8090	116	224
Krittenbrink 1 CPC	35017208070000	30	nw nw	7797	7911	8146	114	235
Small 2	35017213490000	31	nw nw	7851	7979	8212	128	233
Small Unit 1	35017201280000	31	sw sw	7899	8024	8269	125	245
Whitehat 1	35017500220000	32	c sw ne	7766	7878	8098	112	220
Coffey 1-B	35017210690000	32	c s ne ne	7733	7842	8062	109	220
C.L. Blalock 1	35017500230000	34	nw ne sw	7702	7812	8032	110	220
Black Bear 1-33	35017235790000	33	ne	7702	7800	8032	98	232
Black Owl 1	35017001210000	33	c sw ne	7704	7806	8030	102	224
Blalock 3-34	35017235670000	34	sw	7744	7855	8082	111	227
Little Sioux 3	35017230600000	35	w/2 se	7632	7737	7961	105	224
Little Sioux 2	35017209020000	35	c sw	7674	7777	7999	103	222
Little Sioux 1	35017500240000	35	c se nw	7628	7722	7948	94	226
Jay Jay 3	35017205720000	36	c nw	7557	7649	7881	92	232
Snyder 1	35017209500000	36	c ne	7510	7601	DNLS	91	n/a
Hickerson 2-36	35017228070000	36	e/2 se sw	7607	7706	7924	99	218
Hansen Farms 1	35017221920000	36	se se nw	7571	7661	7886	90	225
Hickerson 1	35017223780000	36	c sw	7608	7703	7926	95	223

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 10W</b>								
USA 1	35017201140000	1	c sw	7498	7598	7810	100	212
Oliver Pritchett 1	35017200320000	2	c sw	7545	7645	7865	100	220
Stover Unit 1	35017200110000	3	ne sw	7532	7630	7858	98	228
R.H. Hunter	35017201350000	4	c n se	7545	7650	7871	105	221
G. Stover Unit 1	35017300080000	4	c ne sw	7573	7684	7911	111	227
G. Stover 3	35017234310000	4	c n s nw	7571	7681	7913	110	232
Lefthand 1	35017207330000	5	n ne	7600	7706	7932	106	226
Old Woman 1	35017201840000	6	nw nw	7671	7781	8009	110	228
Merle1	35017204720000	6	ne sw	7651	7753	7983	102	230
Merle Inc. Unit 1	35017200580000	6	c sw	7693	7807	8024	114	217
Muncy 1	35017203920000	7	c sw	7764	7885	8104	121	219
Peters 1	35017205220000	7	c sw sw	7785	7905	8125	120	220
Eva Prairie 1	35017207030000	7	ne/4	7712	7827	8051	115	224
Eva Prairie 1	35017201370000	7	nw/4	7743	7863	8084	120	221
Ogle 1	35017206750000	8	sw ne ne	7643	7757	7977	114	220
Ray Ice Unit 1	35017200280000	8	c nw se	7676	7797	8029	121	232
Ice 1	35017204630000	8	sw ne ne	7733	7848	8086	115	238
Singing in Water 1	35017200020000	9	c se nw	7628	7735	7956	107	221
Singing in Water 2	35017231230000	9	sw se	7657	7763	7977	106	214
Stover 1-10	35017200290000	10	c se nw	7634	7736	7956	102	220
Loosen 1	35017200300000	11	nw nw	7628	7737	7958	109	221
S.P. Helm 1	35017200370000	12	c sw	7623	7727	7944	104	217
Stephens 1-12	35017223960000	12	c ne sw	7548	7652	7864	104	212
Reimers 1-13	35017231700000	13	c ne sw	7629	7730	7947	101	217
Virgil Reicher 1	35017200890000	13	c nw se	7666	7772	7991	106	219
Mountain 1-13	35017231450000	13	sw	7689	7796	8016	107	220
Riggs A/1-14	35017230360000	14	e sw sw	7759	7870	8095	111	225
Jameson 1-14	35017226260000	14	c ne sw	7686	7790	8005	104	215
Gladys Geary 1	35017200400000	14	c nw	7702	7810	8031	108	221
Peters 1	35017200560000	15	c nw	7725	7831	8057	106	226
McCarley 1	35017220920000	22	se sw	7858	7972	8208	114	236
Schumacher Unit 1	35017200570000	16	c ne	7725	7835	8050	110	215
Schumacher 1-A	35017211120000	16	c ne ne	7715	7821	8045	106	224
Benny Peters 1	35017208930000	17	c nw se	n/a	7908	8151	n/a	243
Donald Ice 1	35017200330000	17	sw	7817	7927	8163	110	236
Ice 1	35017201730000	17	nw	7865	7973	8195	108	222
Lyon Unit 2	35017230640000	19	nw ne sw	7921	8035	8269	114	234
Ross Unit 1	35017200270000	20	c sw sw	7935	8043	8269	108	226
Rhoades 1	35017213920000	20	c nw nw	7966	8078	8312	112	234
Zweiacher 1	35017218340000	20	ne sw	7899	8004	8230	105	226
McCarley 1	35017234270000	20	nw	7873	7974	8208	101	234
McCarley 1	35017201270000	21	c se	7861	7975	8213	114	238
Rambler Heirs 1	35017207120000	22	se se	7840	7963	8187	123	224
Rambler Heirs 2	35017210780000	22	ne sw	7841	7967	8190	126	223

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Spottwood 1	35017203610000	23	c se	7779	7887	8107	108	220
Spottwood 2	35017210420000	23	nw	7792	7903	8125	111	222
Pritchett 1	35017201090000	24	c ne	7741	7846	8076	105	230
H.E. Jameson Unit 1	35017202770000	24	ne/4	7725	7829	8050	104	221
Jameson Unit 1	35017207280000	24	c sw	7801	7911	8140	110	229
Morris Unit C-1	35017203680000	25	e nw	7880	8000	8242	120	242
Morris Unit C-2	35017230580000	25	se ne	7821	7933	8171	112	238
Jimmie 1	35017234380000	25	se ne	7827	7937	8187	110	250
Small Unit 1	35017204870000	26	c ne	7861	7977	8207	116	230
Miller Unit 1	35017200140000	26	c sw	7912	8036	8271	124	235
Jameson 1	35017220840000	27	se sw	7921	8049	8307	128	258
Big Eagle 1	35017209900000	27	se	7957	8088	8340	131	252
Kurtz 28-A	35017207430000	28	s s se	8015	8144	8397	129	253
Ward 1-28	35017222670000	28	se nw sw	7970	8094	8340	124	246
Rhodes A-1	35017200840000	29	nw	7998	8113	8351	115	238
Miller E-1	35017204590000	30	ne	8022	8132	8373	110	241
Bright Unit 1	35017200980000	31	c sw	8183	8325	8559	142	234
Bright Unit 2	35017203190000	31	nw	8138	8262	8508	124	246
Bright Unit 3	35017208920000	31	c se	8179	8317	n/a	138	n/a
Holman 1	35017218750000	32	se e	8107	8244	8488	137	244
L.W. Holman 1	35017206970000	32	c se	8118	8251	n/a	133	n/a
Crooked Star 1	35017211930000	33	nw	8079	8208	n/a	129	n/a
Newer Unit B-1	35017300090000	34	ne sw	8019	8150	8396	131	246
Big Eagle 1	35017208130000	34	ne	7988	8119	8373	131	254
Yellow Paint Woman 2	35017207100000	35	nw nw se ne	7933	8062	8310	129	248

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 11W</b>								
White Breast 1	35011207570000	2	w/2 w/2 e/2 ne	7726	7849	8071	123	222
White Breast 2	35011223160000	2	ne nw	7737	7854	8076	117	222
Holman 1-2	35011201070000	2	se se	7792	7917	8139	125	222
White 1	35011214680000	3	c ne	7762	7889	8102	127	213
Lula Walker 1	35011201370000	3	sw se nw se	7801	7928	8142	127	214
Neely 1-4	35011222810000	4	sw ne se	7843	7963	8185	120	222
Ridenhour 1-4	35011219510000	4	ne	7802	7920	8152	118	232
Neely Unit 1	35011201630000	4	ne sw	7849	7975	8195	126	220
Birds Nest 1-6	35011216840000	6	c se	7942	8067	8304	125	237
Hudkins 1	35011208930000	7	se/4	8016	8138	8379	122	241
Constein 1	35011208810000	8	e w ne	7967	8089	8313	122	224
C Farms 1	35011219040000	8	nw	7973	8093	8321	120	228
Farms 1-9	35011215030000	9	e c sw	7996	8103	8334	107	231
Neely 1	35011301040000	9	c se nw	7918	8051	8272	133	221
Rhodes 1-10	35011208640000	10	w w ne se	7883	8003	8241	120	238
Lee Peggy 1-10	35011225100000	10	c sw sw	7940	8066	8296	126	230
Rhodes Unit B 1	35011221990000	10	c sw	7915	8040	8271	125	231
Roach 1	35011226990000	10	sw se nw	7891	8009	8253	118	244
Woman Unit 1-10	35011201030000	10	ne	7865	7995	8215	130	220
Anna Dyer 2-11	35011224440000	11	ne	7834	7966	8181	132	215
Anna Dyer 1-11	35011201080000	11	se	7879	8002	8218	123	216
Muncy Unit B-1	35011302270000	12	se	7810	7936	8151	126	215
Muncy Unit B-2	35011207620000	12	c nw	7783	7906	8128	123	222
Muncy Unit B-3	35011223860000	12	sw	7810	7935	8153	125	218
Muncy 1	35011200950000	13	c sw ne	7877	7993	8229	116	236
Spotted Corn Unit 1	35011201360000	14	c ne	7902	8029	8243	127	214
Christenson Unit B-1	35011221640000	15	c n nw	7963	8087	8316	124	229
James 1	35011214520000	15	c sw	8030	8159	8397	129	238
Zweiacher 1	35011201730000	15	ne	7956	8076	8308	120	232
Neely 1	35011208820000	16	c se	8071	8203	8433	132	230
Urton 1	35011208390000	17	c ne	8077	8208	8440	131	232
Base 1	35011220470000	17	nw	8090	8221	8468	131	247
Hudkins 1-18	35011221820000	18	c s sw nw	8111	8241	8496	130	255
Young 1	35011202720000	19	ne sw	8256	8378	8628	122	250
Jones 1	35011220440000	21	nw sw se nw	8157	8279	8537	122	258
Cowan 1	35011201970000	22	c ne sw	8128	8264	8494	136	230
Zweiacher 1	35011207000000	22	nw	8102	8244	8466	142	222
Base Unit 1	35011201450000	23	ne	7993	8109	8351	116	242
Base A-1	35011219240000	23	nw	8005	8120	8361	115	241
Lyon Unit B-1	35011200660000	24	c sw ne	7990	8108	8337	118	229
Lyon Unit B-2	35011205540000	24	c ne ne	7939	8055	8291	116	236
Faris Buser 2	35011224000000	25	c se	8110	8225	8465	115	240
Base 1	35011209710000	25	nw	8075	8186	8426	111	240
Base 1	35011204990000	25	se se sw	8141	8261	8491	120	230

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Base Unit B-1	35011201790000	25	sw	8127	8252	8480	125	228
Bomhoff 1	35011207350000	26	c ne	8133	8254	8483	121	229
Buser-Marlene A-1	35011208520000	26	n s sw	8215	8343	8573	128	230
Hankla 1	35011220090000	26	nw	8092	8214	8442	122	228
McNeely-Fahl 1	35011000150000	27	ne ne sw	8188	8298	8562	110	264
Maib 1	35011208750000	27	c se	8160	8266	8532	106	266
Scott 27-A	35011221570000	27	c sw	8189	8309	8574	120	265
Loy Marler 1	35011208950000	28	c se	8270	8400	8632	130	232
Dean Unit 1	35011207970000	29		8313	8431	8675	118	244
Pettigrew 1	35011204620000	29	se nw	8286	8418	8658	132	240
Bomhoff 1	35011219620000	32	sw	8362	8491	8741	129	250
Base 1	35011207440000	34	ne ne sw ne	8246	8359	8599	113	240
Criswell 1	35011206920000	35	c se	8238	8366	8601	128	235
Jones 1	35011203650000	36	c ne	8165	8291	8522	126	231



WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 12W</b>								
Stubblefield 1	35011208760000	1	c ne	7914	8044	8282	130	238
Thoes 1-2	35011206290000	2	c sw	7924	8048	8305	124	257
Carter 1-3	35011210300000	3	sw sw	7876	8004	8239	128	235
Tuka Royalties 1	35011209380000	4	c sw	7904	8027	8260	123	233
Bailey 1	35011209610000	5	c e	7889	8014	8248	125	234
McClung 1	35011215200000	6	c nw	7890	8027	8286	137	259
Martin 1-7	35011209120000	7	sw sw	8051	8179	8429	128	250
H.W. Cowan 1	35011000420000	8	c sw ne	7973	8106	8346	133	240
Cowan 1-8	35011209190000	8	c ne ne	7944	8084	8318	140	234
Awtrey 1	35011215660000	9	c n se	8002	8124	8359	122	235
Pierce 10-1	35011219840000	10	sw nw	7910	8032	8259	122	227
Neely 1-10	35011209730000	10	c nw	7920	8038	8268	118	230
Neely 1	35011206980000	14	c sw	8158	8293	8550	135	257
Justice 1	35011215230000	15	c se	8139	8275	8535	136	260
Massingill 1	35011205190000	15	sw sw	8064	8194	8434	130	240
Helm 3-17	35011229690000	17	sw	8077	8200	8448	123	248
Helm 1	35011207090000	17	c sw	8081	8206	8456	125	250
Helm 2	35011209140000	17	c sw sw	8098	8229	8478	131	249
Nitzel 18-1	35011226690000	18	se	8092	8214	8464	122	250
Nitzel 1	35011208550000	19	nw	8182	8305	8559	123	254
Nitzel 22-19	35011202870000	19	se nw	8207	8329	8586	122	257
Helm Trust 1-20	35011227350000	20	nw	8171	8297	8559	126	262
Bornemann 1	35011208600000	20	sw	8254	8384	8649	130	265
Seyler 1	35011215400000	21	c e	8164	8295	8551	131	256
White 1-22	35011214930000	22	c e sw	8235	8374	8638	139	264
Misner Unit 1	35011000710000	26	sw ne	8316	8450	8714	134	264
Helm 1-26	35011216030000	26	c se	8345	8483	8743	138	260
Gepner 1-27	35011210190000	27	sw	8323	8462	8724	139	262
Terneus 1-27	35011227940000	27	c s n sw sw	8320	8455	8728	135	273
Gann 1-28	35011230050000	28	se se nw se	8346	8481	8719	135	238
Gepner 1	35011208920000	28	c sw sw	8343	8475	8731	132	256
Williams 1-28	35011206110000	28	c se nw	8287	8422	8682	135	260
Ralph 1	35011209010000	30	c ne	8348	8480	8748	132	268
Garrett Unit 1	35011300250000	30	sw sw	8397	8544	8804	147	260
A.O. Baker A 1	35011351540000	31	c sw se	8479	8639	8909	160	270
Berry 1	35011203090000	31	c nw	8454	8599	8869	145	270
Groendyke 1	35011221970000	31	e/2 sw sw	8524	8664	8933	140	269
Mercury 1	35011209430000	31	ne ne	8433	8571	8839	138	268
Gepner 1	35011223870000	32	ne	8446	8580	8840	134	260
Williams 1-32	35011208440000	32	c nw	8442	8582	8841	140	259
Jasper 3-33	35011228820000	33	c w ne	8379	8520	8784	141	264
Jasper 1	35011209220000	33	w/2	8404	8540	8810	136	270
Cooksey 1	35011209510000	34	c se	8479	8623	8889	144	266
Bomhoff 1-36	35011215590000	36	sw	8422	8562	8820	140	258

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 13W</b>								
Pettus 1-1	35011208190000	1	c ne	7874	8005	8234	131	229
Cowan 1	35011209480000	2	c ne	7880	8014	8247	134	233
La Donna 1	35011227280000	3	nw	7966	8105	8340	139	235
Plummer 1	35011209790000	3	ne	7935	8074	8297	139	223
Petricia Ann Jordan 1	35011220950000	4	sw	8039	8186	8427	147	241
Litsch 1	35011209560000	4	sw ne	7997	8135	8381	138	246
Litsch 2	35011228590000	4	sw ne ne	7962	8102	8342	140	240
Nicolai 1	35011220100000	5	ne	7981	8125	8351	144	226
Branson 1-5	35011209780000	5	sw	8008	8156	8381	148	225
Lapel 1	35011217490000	6	n ne	8033	8179	8411	146	232
Lapel 1-6	35011221410000	6	c sw sw	8143	8283	8533	140	250
Renee 1-6	35011220900000	6	c se	8129	8272	8512	143	240
Lloyd Scott 1	35011207340000	6	c nw	8082	8232	8460	150	228
Perkins 1	35011209090000	7	sw	8253	8388	8618	135	230
Perkins 2	35011209540000	7	c se	8210	8347	8578	137	231
Nichols 1	35011207780000	7	ne	8172	8307	8552	135	245
Eddie 1	35011210170000	7	nw	8188	8324	8566	136	242
Johnston 1-8	35011209980000	8	ne	8131	8273	8512	142	239
Loose 1-8	35011215800000	8	c s nw	8151	8287	8534	136	247
Wright 1-9	35011210110000	9	ne	8071	8227	8467	156	240
West 2-10	35011229270000	10	ne	8050	8196	8430	146	234
BIA 23-10	35011202680000	10	c ne sw	8099	8242	8482	143	240
West 1	35011209310000	10	c ne ne	8004	8146	8385	142	239
West Farms 1-11	35011227800000	11	w w e nw	8018	8157	8394	139	237
Barringer 1	35011208040000	12	c sw sw	8042	8172	8412	130	240
Burns 2-A	35011208720000	13	c nw	8116	8248	8490	132	242
Plummer 1-13	35011224240000	13	c se	8159	8281	8535	122	254
Burns 1-A	35011208460000	14	ne ne	8098	8230	8475	132	245
Pewo 1-15	35011214810000	15	c nw	8178	8311	8552	133	241
Jordan 1-15	35011208990000	15	c sw sw	8249	8378	8636	129	258
Garrett 1-16	35011209720000	16	n sw	8271	8405	8651	134	246
Johnston 1-17	35011209050000	17	c w	8293	8425	8673	132	248
Beulah Switzer 1	35011207910000	18	c sw	8342	8472	8714	130	242
Beulah Switzer 2	35011208570000	18	nw	8294	8426	8664	132	238
Beulah Switzer 3	35011227740000	18	sw	8314	8446	8686	132	240
Beulah Switzer 4-18	35011227100000	18	nw	8276	8411	8645	135	234
Austin Fansler 3-18	35011209580000	18	nw ne	8288	8420	8660	132	240
Shantz 1-19	35011218040000	19	c sw	8489	8620	8875	131	255
Switzer 1-19	35011217770000	19	c nw	8410	8543	8793	133	250
Ash 1	35011208680000	19	c ne ne	8373	8499	8746	126	247
Frost Farms 1	35011207790000	20	c ne sw	8419	8547	8821	128	274
Baker 1	35011214750000	21	c nw	8358	8486	8743	128	257
Weygant 1	35011207980000	22	s n sw	8368	8508	8748	140	240
Nina Nelson 2	35011217400000	23	nw	8264	8388	8642	124	254

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
Nelson 1	35011203250000	23	c e se	8330	8456	8708	126	252
Crump 1	35011209250000	24	c ne	8214	8337	8584	123	247
Burns 1	35011207600000	24	c n se	8259	8385	8637	126	252
Duane Burns 1	35011300080000	24	c se sw	8310	8437	8690	127	253
Nickalai 1-25	35011228520000	25	se	8381	8516	8773	135	257
N.D. Burns 1	35011500000000	25	se sw	8420	8570	8827	150	257
N.D. Burns 2	35011214600000	25	ne	8331	8466	8717	135	251
Regina 1	35011208620000	26	c sw	8460	8602	8858	142	256
Groendyke 1-26	35011224170000	26	c nw	8388	8526	8773	138	247
Coburn 1	35011300970000	26	se	8426	8576	8830	150	254
Turtle Sitting 1	35011206710000	27	sw	8486	8626	8890	140	264
Helen Walker 1	35011209750000	28	c ne	8439	8577	8842	138	265

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
<b>14N 14W</b>								
Smith Trust 1-1	35039217480000	1	sw	8168	8301	8545	133	244
Carman 1	35039202890000	1	sw sw	8172	8309	8550	137	241
Scott A 4-1	35039216720000	1	nw/4	8109	8247	8486	138	239
Lloyd Scott A-1	35039202140000	1	c ne	8128	8262	8492	134	230
Lloyd Scott A-2	35039204500000	1	sw nw	8130	8270	8512	140	242
Lloyd Scott A-3	35039212550000	1	se	8161	8291	8541	130	250
Hamar 1	35039202960000	2	c s/2 ne	8140	8276	8521	136	245
Carl Payne 1	35039201760000	2	c s/2 sw	8218	8343	8580	125	237
Carl Payne 2	35039202600000	2	c se	8185	8324	8562	139	238
Carl Payne 3	35039203550000	2	s/2 s/2 s/2 nw	8162	8304	8547	142	243
Wingard 1	35039201600000	3	c sw sw	8246	8371	8621	125	250
Wingard 3	35039202790000	3	se nw	8183	8318	8556	135	238
Wingard 4	35039203020000	3	w e w ne	8165	8305	8545	140	240
Miller 1	35039209540000	4	nw/4	8237	8371	8612	134	241
Atkin 1-4	35039208800000	4	c s ne	8235	8365	8605	130	240
Beachy 2	35039201880000	4	c se	8269	8403	8639	134	236
Denney 1	35039201010000	5	c se	KB?	KB?	KB?	KB?	KB?
Conkling 1-5	35039300170000	5	c se sw	8360	8491	8736	131	245
Miller 1-5	35039211640000	5	nw/4	8308	8446	8680	138	234
Grace 1	35039203010000	6	c ne	8347	8481	8707	134	226
Hyer 6-1	35039209670000	6	c sw	8402	8534	8788	132	254
Moses 1	35039201230000	6	c se se	8395	8533	8781	138	248
Hutchinson 1	35039205300000	7	ne	8456	8587	8844	131	257
Miller 1	35039201100000	8	c ne	8380	8514	8752	134	238
Miller 2	35039201850000	8	ne ne	8344	8480	8716	136	236
Miller 4	35039203830000	8	sw	8457	8584	8845	127	261
Conkling 1-8	35039210300000	8	c sw	8480	8605	8864	125	259
Frymire 1-8	35039208870000	8	c nw	8420	8550	8795	130	245
Schrock 1	35039201430000	9	c ne	8333	8465	8701	132	236
Schrock 2	35039202360000	9	c n/2 se	n/a	8514	8764	n/a	250
Schrock 3	35039202620000	9	c se nw	8350	8482	8723	132	241
Boyd Miller 1	35039201280000	10	c nw	8292	8410	8665	118	255
Boyd Miller 2	35039202260000	10	c se	8320	8445	8699	125	254
Boyd Miller 3	35039202340000	10	ne	8275	8414	8649	139	235
Boyd Miller 4	35039202590000	10	sw	8352	8472	8733	120	261
Stearns 1	35039201400000	11	c sw	8301	8430	8675	129	245
Stearns 2	35039202130000	11	se	8303	8438	8678	135	240
Stearns 3	35039202470000	11	nw/4	8264	8399	8641	135	242
Stearns 4	35039202500000	11	c ne	8241	8378	8606	137	228
McNeil 2A-12	35039212070000	12	n se	8230	8368	8600	138	232
McNeil 1-12	35039201790000	12	c sw sw	8282	8416	8650	134	234
McNeil 2-12	35039202700000	12	c se se	8240	8377	8612	137	235
McNeil 3-12	35039203950000	12	c w nw	8223	8360	8591	137	231
McNeil 4-12	35039210850000	12	ne sw ne	8220	8358	n/a	138	n/a

WELL NAME	API #	SEC	LOCATION	EXC HS	VERD	PINK	PRU TH	SK TH
McNeil et al 1	35039200920000	13	ne sw ne	8372	8504	8746	132	242
C.B. McNeil 2	35039201460000	13	w e nw	8316	8448	8688	132	240
C.B. McNeil 4	35039202850000	13	c e	n/a	8473	8713	n/a	240
C.B. McNeil 1-14	35039201470000	14	c ne	n/a	8473	8716	n/a	243
C.B. McNeil 2-14	35039202250000	14	c nw	8351	8480	8728	129	248
C.B. McNeil 3-14	35039202400000	14	c n se	8358	8488	8738	130	250
McNeil 1-15	35039201580000	15	ne nw	8359	8489	8739	130	250
McNeil 4-15	35039203510000	15	c sw	8459	8593	8837	134	244
Lorenz 1	35039201690000	16	c ne ne	8416	8548	8801	132	253
Jane 1	35039203130000	16	c nw	8460	8588	8840	128	252
Herring 1-17	35039203370000	17	c sw	8579	8705	8977	126	272
Crall 2	35039205230000	17	c se	8561	8683	8938	122	255
Chittenden 1-18	35039206480000	18	ne	8558	8684	8934	126	250
Lorenz 1	35039203090000	18	c e se	8606	8728	8996	122	268
Keller 1-18	35039208210000	18	c se nw	8603	8730	n/a	127	n/a
Horton 1	35039203960000	19	c se	8727	8846	9130	119	284
Roof 1	35039201940000	20	c se	8638	8760	9028	122	268
Yoder 1-20	35039207160000	20	c ne	8593	8720	8986	127	266
Deck 1	35039203310000	20	c nw	8637	8765	9022	128	257
Mast A 2	35039203900000	21	c ne sw	8593	8716	8983	123	267
Mast Unit 1	35039202910000	21	sw ne	8527	8657	8917	130	260
Don McNeil 1	35039203190000	22	c ne	8492	8618	8870	126	252
Don McNeil 2	35039204130000	22	se	8558	8690	8940	132	250
Don McNeil 4	35039207460000	22	c nw	8515	8645	8900	130	255
Clayton 2	35039205190000	23	c nw sw	8544	8676	8931	132	255
Switzer 1	35039201070000	24	c nw	8428	8538	8798	110	260
Amos 1	35039204100000	24	se	8475	8605	8855	130	250
Truman 1	35039203430000	27	s s n nw	8636	8761	9016	125	255
Yoder 1	35039200670000	28	c nw se	8683	8816	9083	133	267
Don Lorenz 1	35039204050000	28	c ne ne	8622	8750	9002	128	252
Don Lorenz 2	35039209790000	28	ne	8620	8750	9002	130	252
Walking Woman 1	35039207760000	31	sw	8964	9080	9382	116	302
Stutzman Unit A 1	35039207770000	34	sw	8808	8933	9218	125	285

APPENDIX C

PLATES

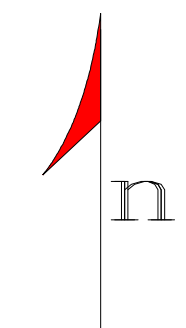
# PLATE I

STRUCTURAL CONTOUR MAP  
TOP OF THE VERDIGRIS LIMESTONE

C.I. = 100 FEET

DATUM = SEA LEVEL

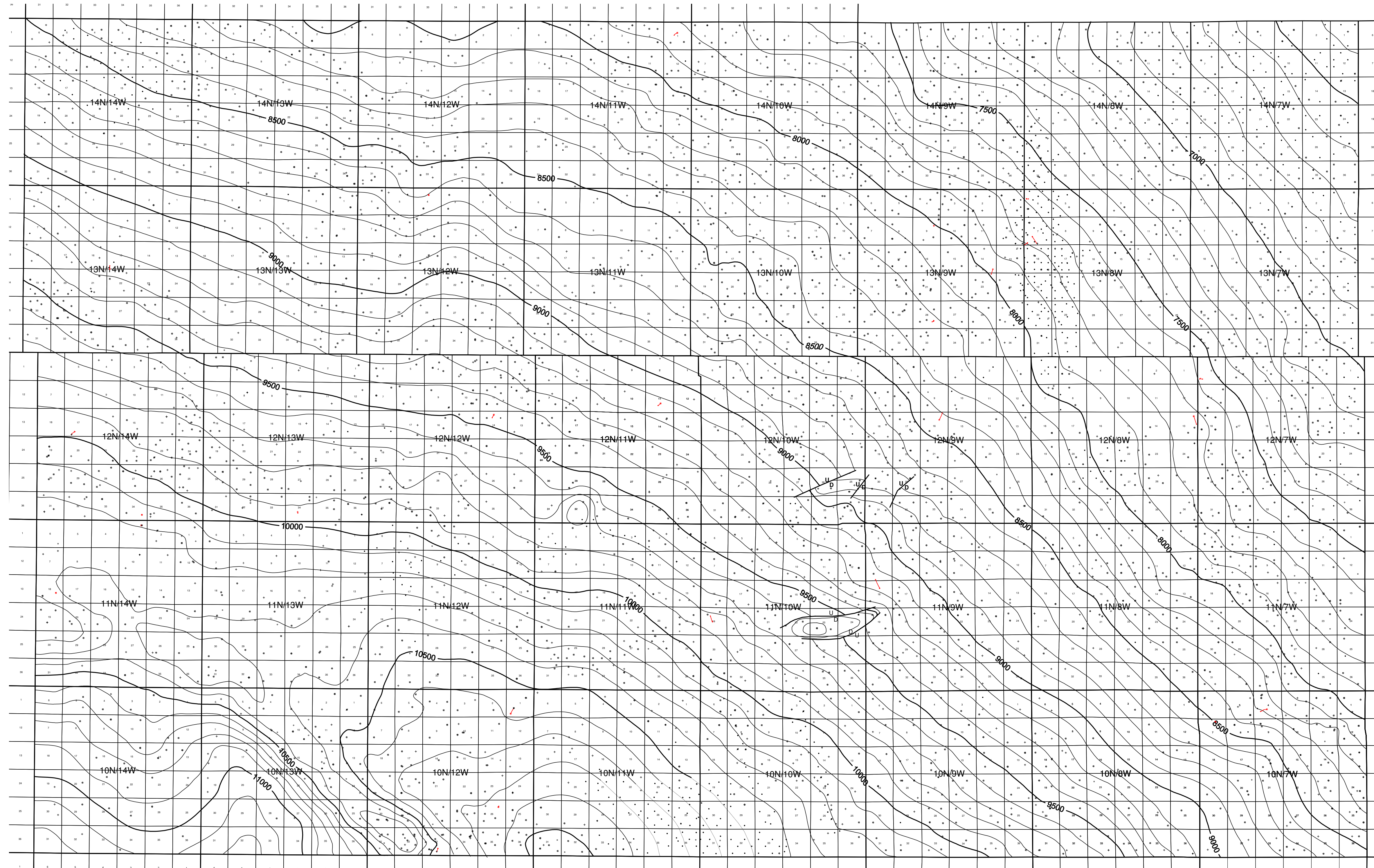
SCALE: 1 INCH = 2 MILES



FAULT

U = UPTHROWN SIDE  
OF FAULT

D = DOWNTROWN  
SIDE OF FAULT



K. BOUCHER, 2007

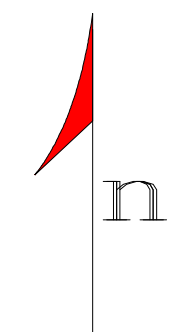
# PLATE II

STRUCTURAL CONTOUR MAP  
TOP OF THE PINK LIMESTONE

C.I. = 100 FEET

DATUM = SEA LEVEL

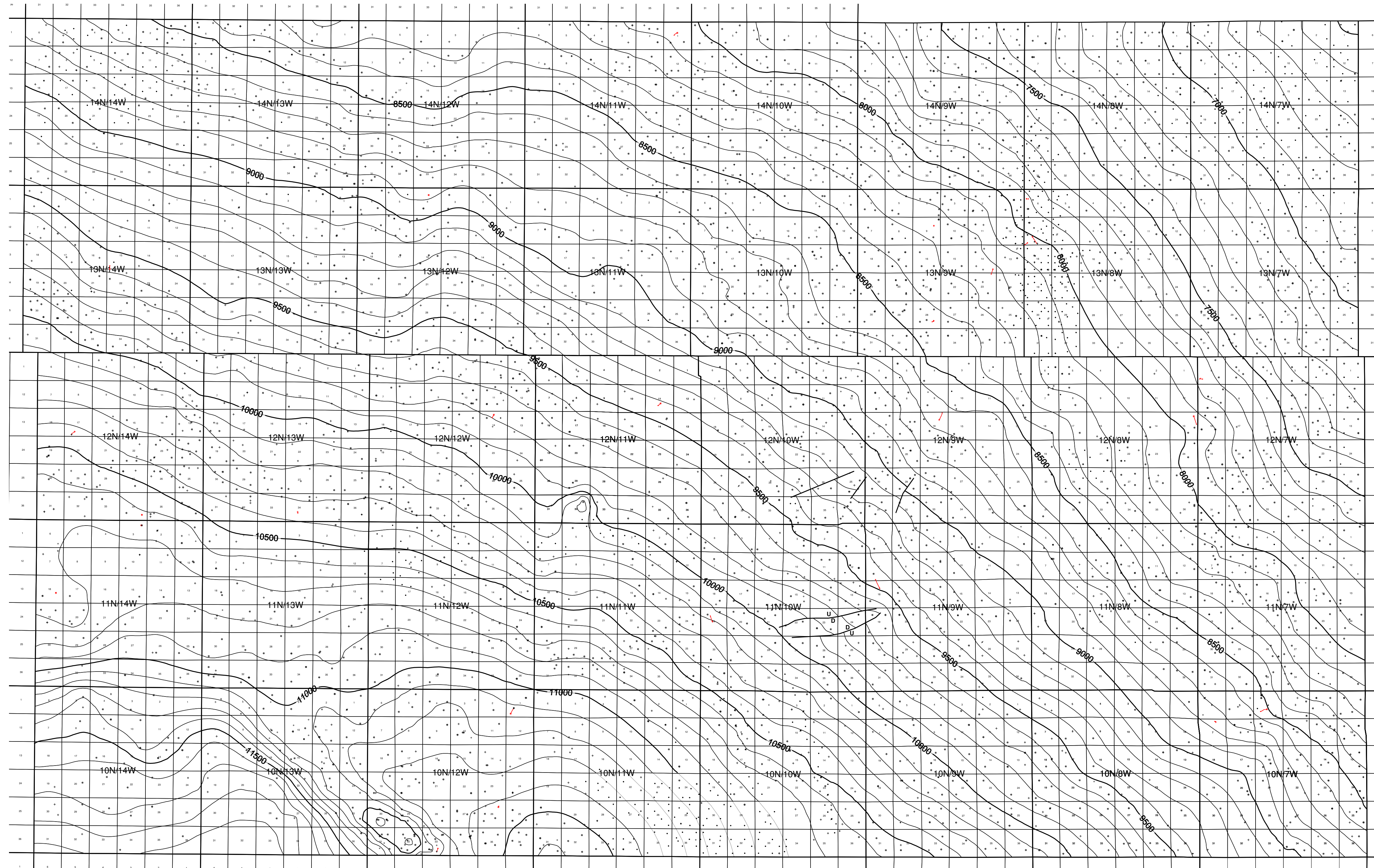
SCALE: 1 INCH = 2 MILES



FAULT

U = UPTHROWN SIDE  
OF FAULT

D = DOWNTROWN  
SIDE OF FAULT



K. BOUCHER, 2007

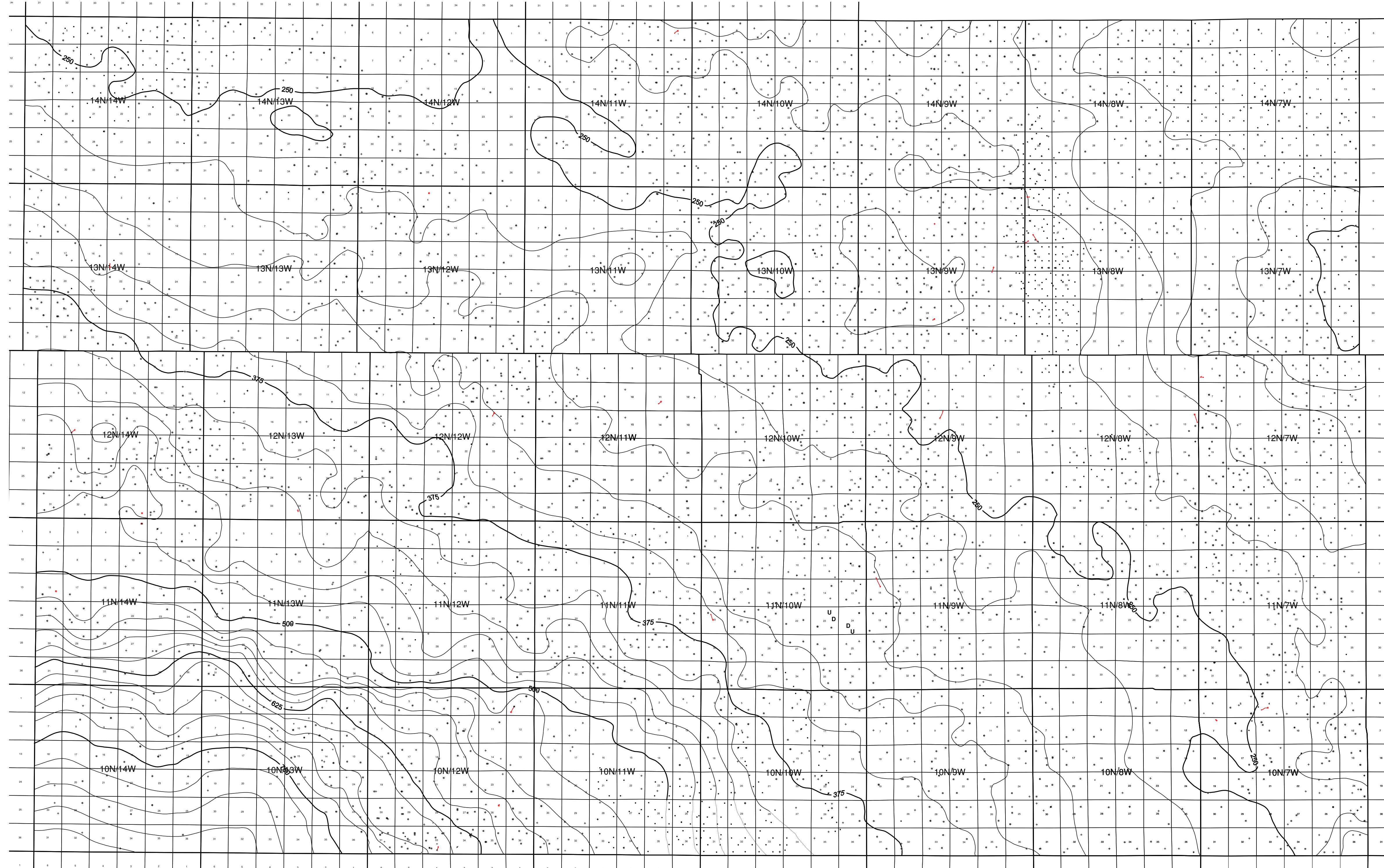
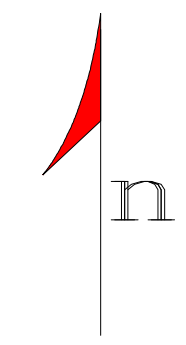


# PLATE III

SKINNER INTERVAL THICKNESS MAP  
(VERDIGRIS LM - PINK LM)

C.I. = 25 FEET

SCALE: 1 INCH = 2 MILES



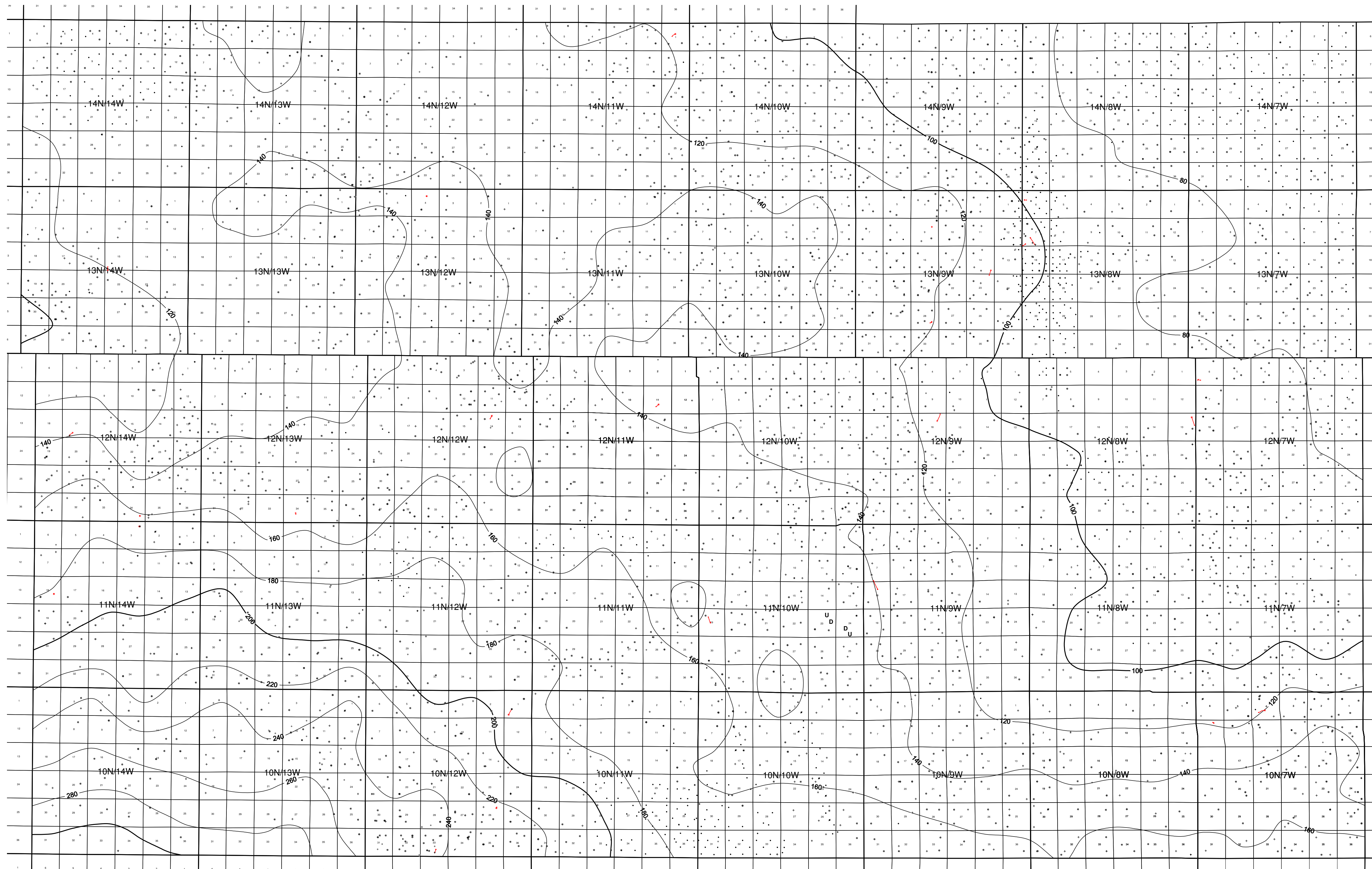
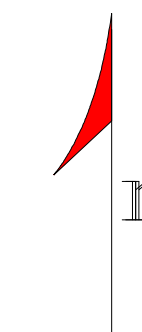
K. BOUCHER, 2007

# PLATE IV

PRUE INTERVAL THICKNESS MAP  
(EXCELLO HS - VERDIGRIS LM)

C.I. = 20 FEET

SCALE: 1 INCH = 2 MILES



K. BOUCHER, 2007

VITA

Kurtis W. Boucher

Candidate for the Degree of

Master of Science

Thesis: DEPOSITIONAL SETTING, FACIES, AND PETROLEUM GEOLOGY OF CABANISS GROUP IN PORTIONS OF WASHITA, CUSTER, BLAINE, CADDO, CANADIAN, AND GRADY COUNTIES, OKLAHOMA

Major Field: Geology

Biographical:

Personal Data: Born in Everett, Washington, October 14<sup>th</sup>, 1978, the son of John W. and Patty Boucher

Education: Graduated from Bixby High School, Bixby, Oklahoma in May 1997; received Bachelor of Science degree in Geology from Oklahoma State University in Stillwater in May of 2002; completed requirements for the Master of Science degree at Oklahoma State University in May, 2007.

Experience: Geology/Engineering Tech, Kaiser-Francis Oil Company, Tulsa, Oklahoma, 2000 to 2006.

Professional Memberships: American Association of Petroleum Geologists

Name: Kurtis Wayne Boucher

Date of Degree: May, 2007

Institution: Oklahoma State University

Location: Stillwater, Oklahoma

Title of Study: DEPOSITIONAL SETTING, FACIES, AND PETROLEUM GEOLOGY  
OF CABANISS GROUP IN PORTIONS OF WASHITA, CUSTER,  
BLAINE, CADDO, CANADIAN, AND GRADY COUNTIES,  
OKLAHOMA

Pages in Study: 137

Candidate for the Degree of Master of Science

Major Field: Geology

Abstract: The objectives of this study were to examine depositional setting and establish sandstone facies, distribution, and petroleum geology for the Cabaniss sandstones. Depositional setting was determined from cross-section-supplemented interval isopach maps, while depositional environments were interpreted from core-correlated wireline electrofacies. All data were integrated to explain the petroleum geology of the hydrocarbon-bearing zones.

Cabaniss Group sandstones represent environments that include: incised-valley fill, distributary channel, delta front, marginal marine, and prodelta. Sandstone distribution patterns and thickness trends reveal that the Cabaniss Group was deposited over a relatively stable shelf that experienced subsidence during deposition of the Lower Skinner Sandstone. A depocenter formed that trapped sand-sized Lower Skinner sediments and prevented their westward transport. The lack of accommodation after deposition of the Lower Skinner sediments forced the Upper Skinner sediment dispersal system to the west. The lack of Prue sandstone bodies infer that sand-sized sediment was deposited to the east or north.

ADVISER'S APPROVAL: Jim Puckette

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