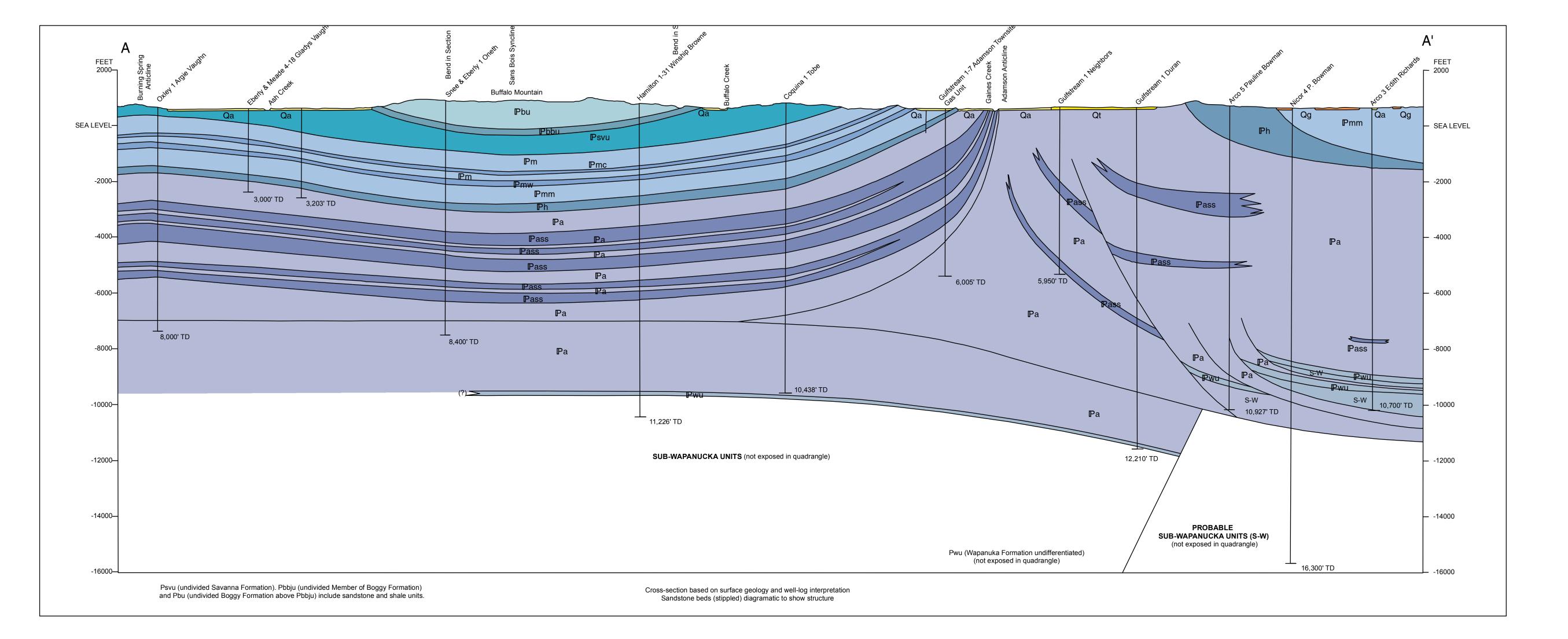


ADAMSON QUADRANGLE

LATIMER COUNTY, OKLAHOMA

Digitized by Jacob Hernandez, 2014





		DESCRIPTION OF UNITS
Qa	Qa	ALLUVIUM (QUATERNARY)—Gravel, sand, silt, and clay on flood plains of present-day streams.
Qt Qg	Qt	TERRACE DEPOSITS (QUATERNARY)—Subangular to subrounded cobbles, gravel, sand, and silt, forming a veneer, generally about 4-10 ft thick, on the surfaces of terraces that stand about 15-50 ft above the beds of present-day streams.
Pb₄ Pb	Qg	GERTY SAND (QUATERNARY)—Unsolidated gravel, sand, silt, and clay in abandoned river channel found at elevations well above modern flood plains. Main constituents of the sand and gravel are quartz, quartzite, chert, flint, jasper, and silicified wood. Thickness varies from an estimated maximum of 50 ft to a thin veneer. In places (such as parts of sec. 14, T. 6 N., R. 16 E.), siliceous, well-rounded pebbles from the Gerty are scattered on weathered Savanna Formation, but the deposits are too thin to map as Gerty.
Pb Pb Pb Pb Pb Pb Pb Pbbj(u) Pbbj Pbsy Psv Psv Psv Psv6	₽b	BOGGY FORMATION (PENNSYLVANIAN)—Predominantly sandy, silty grayish black (N2) to olive gray (5Y4/1) to dark yellowish brown (10YR4/2) shales and siltstones (Pb) with several mappable, scarp-forming, fine- to very fine grained sandstones (Pbbj, Pb2, Pb3, and Pb4). At the base is the Bluejacket Sandstone Member (Pbbj), mostly moderate yellowish brown (10YR5/4), about 150-200 ft thick. The Bluejacket contains a lower, very fine grained, silty, shaly, thin-bedded, parallel-bedded, ripple-marked, bioturbated sandstone unit 25-50 ft thick; a middle silty shale unit (generally covered), about 50-100 ft thick; and an upper fine-grained, medium- to thick-bedded sandstone unit about 25-75 ft thick, containing large-scale trough cross-bedding, abundant soft-sediment-deformation features, and stacked-channel sequences. A thin (0.05-0.4 ft) coal bed (Lower Witteville) is present in the middle shale unit of the Bluejacket Member. It is exposed in the ditch along State Highway 31 in the SW'/4 of sec. 15, T. 6 N., R. 16 E., and in a cut along the trail in the SE'/4 of sec. 36, T. 6 N., R. 16 E. Pb2-Pb4 are predominantly dark yellowish brown (10YR4/2) to grayish orange (10YR7/4) to light brown, (5YR5/2), very fine grained, noncalcareous sandstones with abundant sedimentary structures such as ripples, cross-stratification, sole marks, and soft sediment deformation features. The Secor coal occurs in the shale interval between Pbbj and Pb2. It is of minable thickness in the northwestern part of the quadrangle where it is >2 ft thick. The Secor Rider coal is ~1 ft thick in this same area, and occurs -40 ft above the Secor bed. Pb2 is discontinuous, or thin bedded and generally unmappable on the flanks of Buffalo Mountain. However, the unit is mappable in sees. 16, 21, 22, 27, and 28, T. 6 N., R. 16 E., where it is mostly thin-bedded, shaly, and generally not more than -5 ft thick. Pb3 is a prominent thick, ledge-forming unit that is mapped as Pb3a and Pb3b at higher elevations on Buffalo Mountain and on the high hill in sec. 28, T
Psv Psv Psv Psv Psv4	Psv	SAVANNA FORMATION (PENNSYLVANIAN)—Predominantly pale yellowish brown (10YR6/2) to olive-gray (5Y3/2) to medium dark gray (N4) shales (Psv) with several mappable moderate brown (5YR4/4) to grayish orange (10YR7/4) to moderate reddish brown (10R4/6), fine- to very fine grained, noncalcareous sandstone units (Psv1, Psv2, Psv3, Psv4, Psv5, Psv6, Psv7). The sandstones are massive to thin-bedded and shaly. They commonly are cross bedded and ripple marked and in places _contain abundant soft-sediment deformation features, SoJe marks (trace fossils; brush and prod ""marks; flute, groove, and load casts) at the base of some sandstone beds are locally common. Psv1 marks the base of the formation throughout the map area. It locally grades upward into a fossilifer-ous, sandy limestone. Psv1-Psv7 are all mapped as single units, but generally contain shale beds of varying thicknesses. In sees. 1 and 2, T. 5 N., R. 16 E.; and sees. 35 and 36, T. 6 N., R. 16 E., Psv5, Psv6, and Psv7 are undifferentiated in a structurally complex area. In the extreme southwest corner of the map, Psv2, Psv3 and Psv4 are mapped as a single, undifferentiated unit, as are Psv5 and Psv6. Most shales in the Savanna include thin, unmappable sandstone units. Thickness: 1400-1500 ft.
Psv3 Psv2 Psv Psv1 Pm Pmk	₽m	McALESTER FORMATION (PENNSYLVANIAN)—Predominantly dark gray (N3) to black (N1), blocky shales containing abundant ironstone concretions. McCurtain Shale Member (Pmm) at the base is ~~ -600 ft thick. A coal bed, -1 ft thick, crops out in the N¹/2 of sec. 30, T. 5 N., R. 17 E., in the upper part of the McCurtain Shale Member. The Warner Sandstone Member (Pmw) overlies the McCurtain Shale Member. It is a resistant, moderate reddish brown (10R4/6) to grayish orange (10YR7/4) to moderate yellowish brown (10YR5/4), fine-grained, cross-bedded sandstone of variable thickness. Where exposed in the area east of Dow, it is mapped as Pmw (I), a thick sandstone unit containing intervening shales, a middle shale unit, Pmw, and an upper sandstone unit, Pmw (u). A thin coal (0.2 ft) crops out within Pmw (u) at the crest of the ridge along the road in the northern part of sec. 8, T. 5 N., R. 17 E. This coal bed may be equivalent to the Keefton coal of Muskogee County and Haskell County. Three named, moderate brown (5YR3/4), very fine grained, thin-bedded sandstone units occur in the shale (Pm) above the Warner Sandstone Member: Lequire Sandstone Member (PmI); Cameron Sandstone Member (Pmc); and Keota Sandstone Member (Pmk). The McAlester coal, about 2.0-3.5 ft thick, occurs in the shale interval above the Cameron Sandstone Member. It has been extensively mined east and west of Adamson as well as in the Dow area. Thickness: 1,750-2,000 ft.
Pm McAlester coal Pmc Pml	₽h	HARTSHORNE FORMATION (PENNSYLVANIAN)—Grayish orange (10YR7/4) to moderate reddish orange (10R6/6) to very light gray (N8), very fine grained, ripple-marked, bioturbated, thin-bedded to massive sandstone interbedded with silty, medium-gray (N5) shale. Contains the Lower and Upper Hartshorne coal beds. The Lower Hartshorne coal ranges in thickness from 2.5 ft to 6.0 ft — average thickness is -4.0 ft; the Upper Hartshorne coal ranges in thickness from 2.3 ft to 3.5 ft — average thickness is -3 ft. Both coals are exposed in the NE¹/4 of sec. 7, T. 5 N., R. 17 E., in a road cut, just southeast of Adamson. Thickness: approximately 250-300 ft.
Pm Mw(u)	Pa	ATOKA FORMATION (PENNSYLVANIAN)—Predominantly silty, medium dark gray (N4) to olive black (5Y2/1) noncalcerous shale (Pa) with thin, brownish gray (5YR3/4) siltstone beds. Locally includes discontinuous, ridge-forming, moderate yellowish brown (10YR5/4) to dark yellowish orange (10YR6/6), very fine grained, dirty, micaceous sandstone (Pass) containing plant fragments and trace fossils. Approximately 2,000 ft of upper part exposed in the map area. Total thickness in subsurface in Sans Bois Mountains: ~12,000 ft
Upper Hartshorne Coal Lower Hartshorne		
₽h Coal		SYMBOLS
Pass Pa		CONTACT—Dashed where approximately located COAL BOUNDARY—Approximate outcrop boundary of coal bed (named on map); queried where probable; triangle indicates exposure of coal
		THRUST FAULT—Sawteeth on upper plate; dashed where approximately located; dotted where concealed ~~
	→	FAULT—Arrows show relative horizontal movement; dashed where approximately located; dotted where concealed; queried where
	U	probable EALUT Dashed where inferred; detted where consecuted; II, unthrown side; D. downthrown side
		FAULT—Dashed where inferred; dotted where concealed; U, upthrown side; D, downthrown side ANTICLINE Showing creating; arrow shows direction of plunge; dashed where approximately located; dotted where concealed
		ANTICLINE—Showing crestline; arrow shows direction of plunge; dashed where approximately located; dotted where concealed SYNCLINE—Showing troughline; arrow shows direction of plunge; dashed where approximately located; dotted where concealed
	<u> </u>	MINOR SYNCLINE—Showing plunge
	*	ABANDONED SMALL COAL MINE
	× *	ABANDONED STONE QUARRY OR OPEN SHALE PIT
	Z sulle	ABANDONED SHAFT
	and a second sec	SPOIL PILES FROM ABANDONED COAL MINE _
	ϵ	
		STRIKE AND DIP OF BEDS
		∫ Undulatory beds, average dip
		Vertical beds, ball indicates top of beds
		Horizontal hede
		⊕ Honzoniai beds

 $_{\oplus}$ Undulatory, but more or less horizontal, beds

O Completion not reported as of June 1,1995

OIL AND GAS WELLS

⇔ Gas well

Dry hole, abandoned

	LIST OF WELLS SPUDDED BEFORE JUNE 1,1995					
MAP NO.	OPERATOR	LEASE	SPUD DATE	TOTAL DEPTH (ft)		
1	Oxley Petroleum Co.	1 Ward B	10/18/92	7,400		
2	Oxley Petroleum Co. Oxley Petroleum Co.	2 Ward B 1 Baptist	12/01/92 08/19/92	7,302 7,200		
4	Oxley Petroleum Co.	1-15 Ward	06/27/89	8,000		
5 6	Sun ray DX Oil Co. Oxley Petroleum Co.	1 Mary White 1 Duretta	06/21/66 01/24/90	3,270 7,500		
7	SWAB Corp. (Bonanza Petroleum, Inc.)		11/24/81	7,300 7,200		
8	Snee & Eberly	1 Baldwin A	03/04/71 12/18/71	8,004 7,610		
9 10	Snee & Eberly Snee & Eberly	1 Ingram 1 Vaughn	07/05/63	7,610 2,625		
11	Eberly & Meade, Inc.	2-13Vaughn	12/17/88	2,750		
12 13	Eberly & Meade, Inc. Eberly & Meade, Inc.	3-13 Vaughn 3-18 Argie Vaughn	12/20/92 11/16/89	1,850 2,805		
13	Eberly & Meade, Inc. (work over)	3-18 Argie Vaughn	11/16/89	2,805		
14 14	Oxley Petroleum Co. Oxley Petroleum Co. (work over)	1 Argie Vaughn 1 Argie Vaughn	12/31/72 12/31/72	8,000 8,000		
15	Oxley Petroleum Co.	2 Argie Vaughn	04/28/84	2,500		
16 17	Oxley Petroleum Co. Oxley Petroleum Co.	1 Erie White 2 Erie White	06/22/73 07/13/84	7,900 2,497		
18	Cities Service Gas Co.	1 J.R. Hughes	11/28/30	2,285		
19 20	Oxley Petroleum Co. Mark Resources Corp.	1 Dolly Harrison 2 Toone	09/15/73 11/23/76	2,465 6,210		
20	Mark Resources Corp. (work over)	2 Toone	11/23/76	6,221		
21	Walter Duncan	1 Toone Unit	06/03/71	8,005		
22 23	Oxley Petroleum Co. King Resources Co.	1 Lucy Mae Smith 1 E.G. Mckenzie	12/14/81 11/20/68	7,987 9,853-		
23	King Resources Co. (work over)	1 E.G. Mckenzie	11/20/68	8,085		
24 25	Eberly & Meade, Inc. Eberly & Meade, Inc.	1-24 Oneth 4-18 Gladys Vaughn	09/12/91 08/31/93	3,203 3,000		
26	Old Dominion Oil Corp.	1 Debbie	12/13/81	3,100		
27 28	Snee & Eberly Snee & Eberly	1-21 Clifton 1 Oneth	08/06/75 02/25/74	8,000 8,400		
29	Unit Petroleum Co.	1 Fugitt	08/01/90	8,175		
30 31	Samson Resources ARCO Oil & Gas Co.	1 Browne 1 Browne	? 09/02/89	? 14,180		
32	Magnolia Petroleum Co.	1 Manschrick	?/?/54	12,915		
33	Snee & Eberly	1-27Cirar	04/24/75	8,000		
34 35	Hamilton Brothers Oil Co. Mustang Production Co.	1-31 Winship-Browne 1-33 Brown	09/24/79 11/15/74	11,226 10,950		
36	Coquina Oil Corp.	1Tobe	08/15/73	10,438		
37 37	Hamilton Brothers Oil Co. Hamilton Brothers Oil Co. (work over)	1-10 Bernardi-Jones 1-10 Bernardi-Jones	08/27/79 08/27/79	11,917 11,917		
38	Gulfstream Petroleum Corp	1 -7 Adamson Townsite Ga	as			
39	Gulfstream Petroleum Corp.	Unit 1-9M.A. Randel	03/24/81 04/06/81	6,005 12,815		
40	Gulfstream Petroleum Corp.	1 Raspotnik	11/01/78	12,370		
41 42	Tenneco Oil Co. Hanna Oil & Gas Co.	C Coal & Coke Corp. 1 Martha Cook	03/01/82 11/27/77	11,400 6,902		
43	TXO Production Corp.	1 Cook K	10/04/81	12,450		
44	Midwest Oil Corp. (work ever)	1 Barnes 1 Barnes	03/26/61 02/23/63	11,799 11,959		
44 45	Midwest Oil Corp. (work over) Tenneco Oil Co.	1-13 Moss A	03/19/81	9,506		
46	Samson Resources Co.	1 Weber	11/16/81	10,100		
47 48	Zinke & Trumbo, Ltd. TXO Production Corp.	IAWm.Weber 1 Weber A	12/30/90 06/11/87	10,100 9,800		
49	Gulfstream Petroleum Corp.	1 Duran	01/13/79	12,21Q		
50 51	Gulfstream Petroleum Corp. TXO Production Corp.	1 Neighbors 1 Beatrice	08/25/79 06/17/83	_ 5,950 5,500		
52	Samson Resources Co.	1 Bowman Unit	07/11/81	9,567		
53 54	Dyco Petroleum Corp. Intex Oil Co. & Midway Premier Oil Co.	1 Bowman 1 McEvoy	01/25/75 11/19/49	12,759 3,014		
55	Intex Oil Co.	1 Emery Estate Unit	05/15/59	8,000		
56 57	Samson Resources Co. Shamrock Oil & Gas Corp.	1 Bobo Unit 1 Joe Emery, Jr., et al.	04/02/78 08/19/67	9,799 11,626		
58	Atlantic Richfield Co.	1 Lillie Welch UT	03/21/76	6,811		
59 60	Vastar Resources, Inc.	2 Lillie Welch Unit 1 Randel	08/10/90 01/30/89	7,420 11,315		
61	D-PEX Operating Co. AMOCO Production Co.	1 Clyde Monroe	05/23/74	7,000		
62	Sun Oil Co.	1 Ernest L. Cook	03/10/70	11,485		
63 64	Kaiser-Francis Oil Co. Samson Resources Co.	1 -23 Brushy 1 McBee Unit	12/11/90 06/09/77	6,750 9,185		
65	AMOCO Production Co.	2 George Peden	12/02/84	10,545		
66 67	Oryx Energy Sun Oil Co DX Div.	3 George Peden1 George Peden	09/30/93 05/03/69	9,705 9,407		
68	Exxon Corp.	2 K. Anderson	07/20/87	9,875		
68 69	Exxon Corp. (work over) Humble Oil & Refining Co.	2 K. Anderson 1 Kathleen Anderson Unit	04/12/91 08/23/68	9,875 9,100		
70	Exxon Corp.	3 Anderson	08/31/94	11,200		
71 72	ARCO Oil & Gas Co. Atlantic Richfield Co.	5 Pauline Bowman 2 Pauline Bowman/	12/29/91	10,927		
12	Atlantic Nomeia Co.	sec. 20/UT	04/23/76	5,821		
73	Sinclair Oil & Gas Co.	1 Pauline Bowman/sec. 20) 04/09/67 08/26/89	9,391		
74 75	Nicor Exploration Co. ARCO Oil & Gas Co.	4 P. Bowman 3 Pauline Bowman	09/16/87	16,300 9,460		
76	Unit Petroleum Co.	2 Bowman	02/11/91	11,100		
77 78	Vastar Resources, Inc. Sinclair Oil & Gas Co.	3-21 Bowman 1 Pauline Bowman Unit	11/21/94 06/08/66	11,250 9,760		
79	Austin Drilling Co.	1-28 Monroe	08/05/77	7,823		
80 81	Samson Resources Co. Samson Resources Co.	1 Monroe Unit 1 Honea	02/09/81 01/04/90	11,050 11,318		
82	Vastar Resources, Inc.	3-27 U.S. Government	12/01/94	7,600		
83	ARCO Oil & Gas Co.	2 U.S. Government 27	09/14/79 12/28/70	10,200		
84 85	Atlantic Richfield Co. Daniel-Price Exploration	1 R.A. King Unit 1 Miller	10/16/86	9,460 9,625		
86	Marathon Oil Co.	2 Mass Unit	10/23/82	9,885		
86 87	Marathon Oil Co. (work over) ARCO Oil & Gas Co.	2 Mass Unit 3 Edith Richards	10/23/82 02/28/86	9,885 10,700		
88	Vastar Resources, Inc.	4-30 Edith Richards	10/19/94	11,500		
89 90	JMC Exploration Sinclair Oil & Gas Co.	3 P.O. Bowman 1 P.O. Bowman Unit	03/15/92 02/04/67	10,050 10,686		
91	Vastar Resources, Inc.	5-29 P.O. Bowman	02/05/95	10,850		
92 93	Vastar Resources, Inc. ARCO Oil & Gas Co.	4-28 USA 2 USA Sec. 28	? 04/23/88	? 12,247		
94	Vastar Resources, Inc.	3-28 USA	07/24/94	11,650		
95 96	inclair Oil & Gas Co. ARCO Oil & Gas Co.	1 USA Sec. 28 Unit 2 Alfred Parker	02/15/66 07/11/87	9,813 11,937		
55	ANOU OII & Gas OU.	Z / MIICO I AINCI	J., 11101	11,001		

