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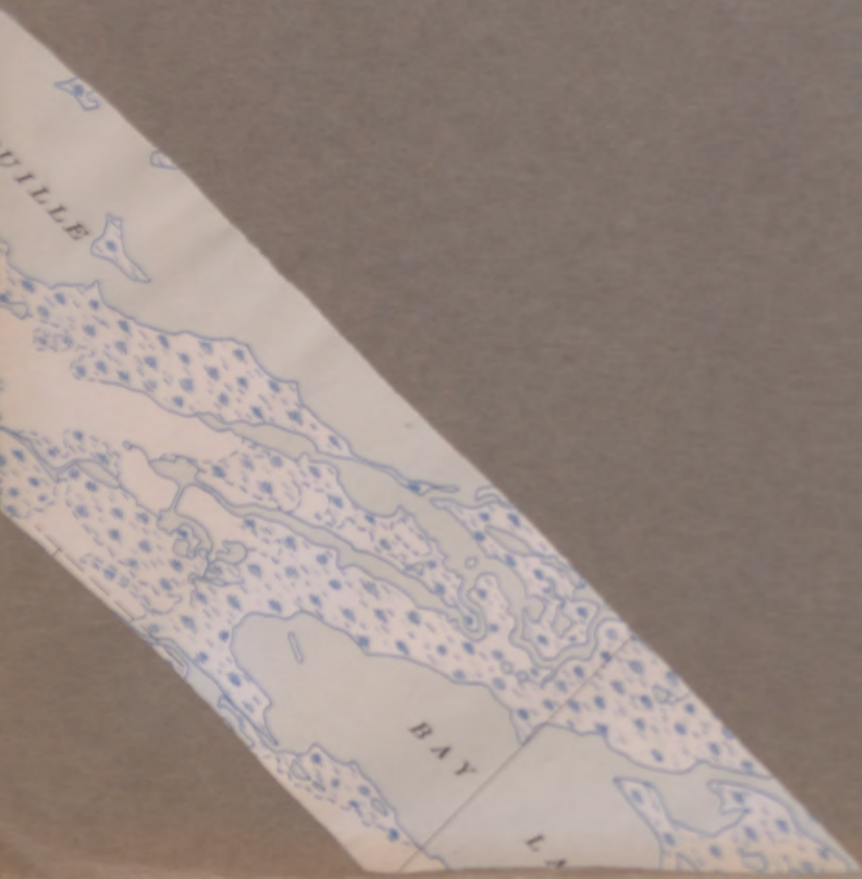
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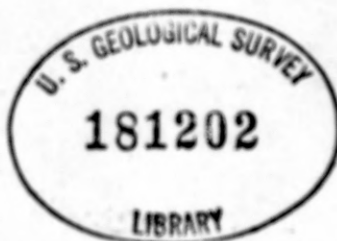


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1. Geologic map of the Cedar Mesa-Boundary Butte area, San Juan County, Utah, by R. B. O'Sullivan. 1 geologic map with explanation; 1 section with explanation; 11-page list of wells drilled; 2 index maps. On file in Room 504, Federal Bldg., Salt Lake City, Utah; and in the office of the Bureau of Indian Affairs, Window Rock, Ariz. Material from which copies can be reproduced is available in the Bureau of Indian Affairs office in Window Rock, Ariz.

2. Preliminary geologic map of the Stewart Flat quadrangle, Caribou County, Idaho, by T. M. Cheney, D. E. Wolcott, and F. A. Schilling, Jr. 1 map. On file at So. 157 Howard St., Spokane, Wash.; and 504 Federal Bldg., Salt Lake City, Utah.

The following has been added as a depository for the open file report released on May 8, entitled "Geologic map and sections of the Klondyke quadrangle, Arizona," by Frank S. Simons:

Office of the Director, College of Mines, Arizona Bureau of Mines, University of Arizona, Tucson, Ariz.



GEOLOGIC MAP OF THE CEDAR MESA-BOUNDARY BUTTE AREA,

SAN JUAN COUNTY, UTAH

by R. B. O'Sullivan

EXPLANATION OF LITHOLOGIC SYMBOLS



Sandstone



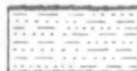
Crossbedded sandstone



Siltstone, sandy or
argillaceous



Shale, sandy or silty



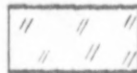
Interbedded sandstone
and shale



Conglomerate



Gypsum

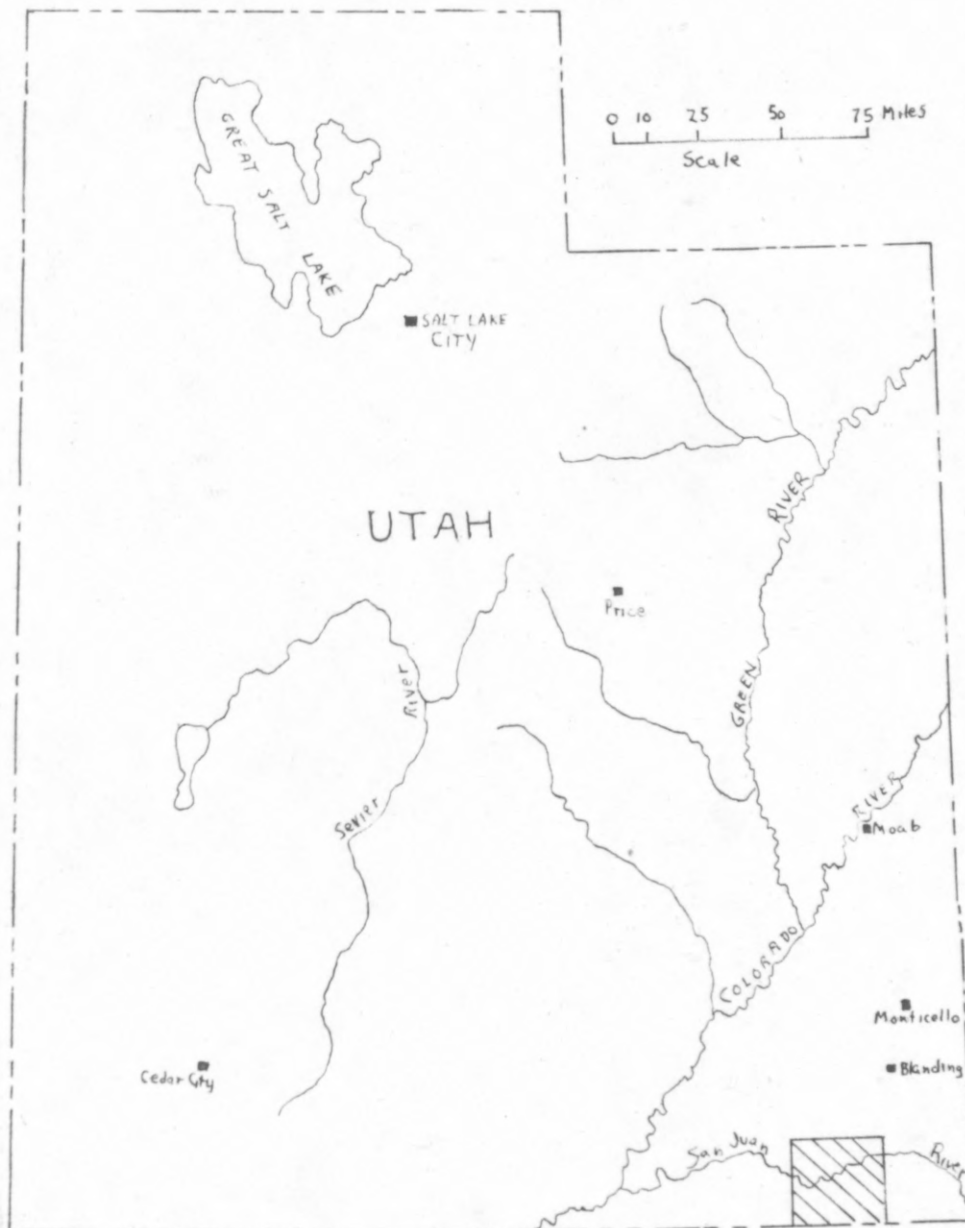


Gypsiferous

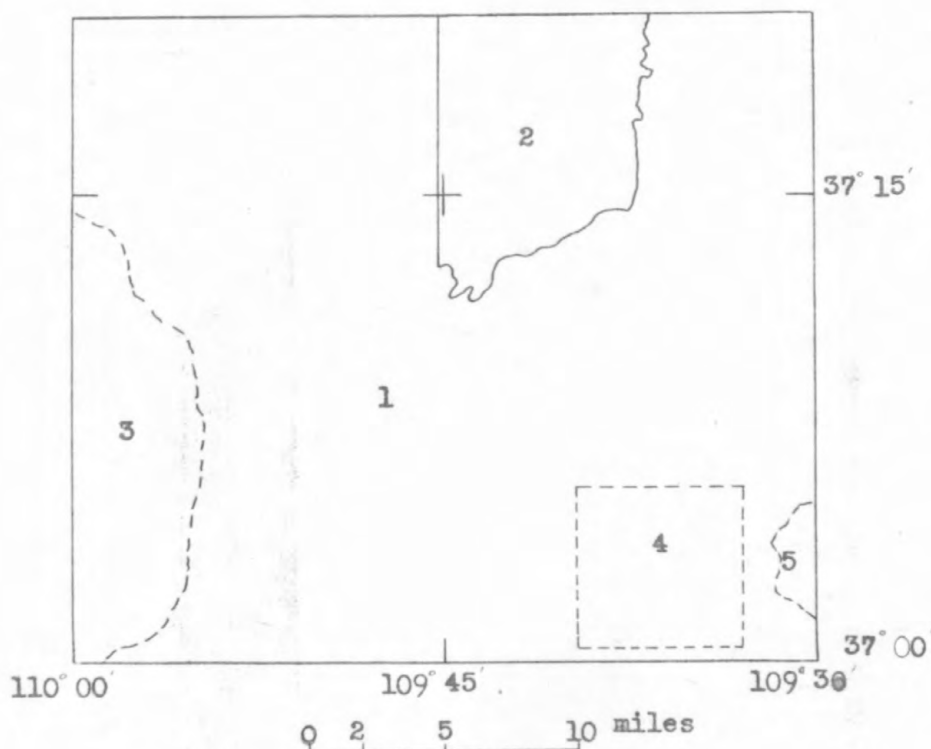


Limestone

U.S. Geological Survey
Open file - 1961
Cedar Mesa-Boundary Butte area
by O'Sullivan



INDEX MAP SHOWING AREA OF REPORT



INDEX MAP SHOWING SOURCES OF GEOLOGIC AND
STRUCTURE CONTOUR DATA

(short dashes show sources of structure
contour data)

Geologic and structure contour data

1. O'Sullivan, R. B., and Robison, R. A., U.S.G.S., detailed and reconnaissance mapping. Structure contour information obtained from vertical angles on selected horizons.
2. Sears, J. D., 1956, U.S.G.S. Bull. 1021-E, modified in part by O'Sullivan, R. B. and Robison, R. A.

Structure contour data

3. Baker, A. A., 1936, U.S.G.S. Bull. 865.
4. Turner, T. E., 1958, Chinle Wash structure, San Juan County, Utah, Intermountain Assoc. Petrol. Geol., 9th Ann. Field Conf., p. 269.
5. Spragg, John, 1952, Boundary Butte anticline, San Juan County, Utah, in Geological symposium of the Four Corners region, Four Corners Geol. Soc., p. 105.

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List of wells drilled

[Wells drilled are as of Dec. 31, 1960. Abd, abandoned; POW, producing oil well; POGW, producing oil and gas well; PGW, producing gas well; SD, shut down; -----, no record. ^{Numbers in parentheses} ~~Location numbers~~ refer to corresponding location number on map and total depth is not known. Compiled from Baker, A. A., 1936, U.S. Geol. Survey Bull. 865, p. 1-106; Gregory, H. E., 1911, U.S. Geol. Survey Bull. 431, p. 11-25; Hansen, G. H., and Scoville, H. C., 1955, Utah Geol. and Mineralogical Survey Bull. 50, p. 1-116; Miser, H. D., 1924, U.S. Geol. Survey Bull. 751, p. 115-155; Woodruff, E. G., 1912, U.S. Geol. Survey Bull. 471, p. 76-104; Petroleum Information, Denver, Colorado and U.S. Geol. Survey Conservation records.]

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 40 S., R. 17 E.					
25	Norwood Oil Co-----	Galloway 1-----	Abd	1,938	1911
25	Mutual Oil Co-----	Galloway 2-----	Abd	225	1912
T. 40 S., R. 18 E.					
24	-----	-----	Abd	150	Pre-1920
28	Utah Southern Oil Co-----	J. E. Noble 1-----	Abd	3,633	1927
33	Barney Cockburn-----	Halbersteben 1-----	Abd	560	1946
33	-----	Finley 3-----	Abd	50	Pre-1920
33	-----	Finley 2-----	Abd	40	Pre-1920
34	-----	Finley 1-----	Abd	50	Pre-1920
35	California Co-----	Red Butte-----	Abd	60	1909
36	-----	-----	Abd	(1)	Pre-1920
36	-----	-----	Abd	300	1920

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year com- pleted
T. 40 S., R. 19 E.					
11	San Francisco-San Juan Oil Co.	Oil City 5-----	Abd	595	1910
13	-----do-----	Oil City 8-----	Abd	126	1908
13	-----do-----	Oil City 6-----	Abd	165	1910
13	-----do-----	Oil City 7-----	Abd	140	1910
13	Francis M. Raymond-----	Federal 1-----	Abd	2,456	1958
14	San Francisco-San Juan Oil Co.	Oil City-----	Abd	145	1908
16	-----do-----	1-----	Abd	12	1909
19	-----do-----	1-----	Abd	600	Pre-1920
19	-----do-----	1-----	Abd	20	Pre-1920
23	San Francisco-San Juan Oil Co.	Oil City 9-----	Abd	50	Pre-1920
23	-----do-----	Oil City 1-----	Abd	150	1910
29	Gibraltar Oil Co-----	1-----	Abd	500	1910
30	-----do-----	1-----	Abd	80	Pre-1920
30	-----do-----	1-----	Abd	400	1908
31	-----do-----	1-----	Abd	100	1909
32	Monumental Oil Co-----	Red Butte-----	Abd	50	1909
33	Navajo Oil Co-----	1-----	Abd	1,200	1909

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 40 S., R. 20 E.					
9	Argo Oil Co., et al-----	Government Oak 1----	Abd	3,552	1957
26	Anderson-Allen-----	Government 1-----	Abd	880	1955
28	Pan American Petroleum Corp.	Lime Ridge 1-----	SD	3,357	1959
32	Al Hill, et al-----	State 1-----	Abd	3,214	1950
T. 40 S., R. 21 E.					
1	-----	1-----	Abd	200	1910
8	Humble Oil & Refining Co--	Government-Fehr & Lyon 3	Abd	5,471	1960
12	----do-----	Bluff Bench 12-----	POW	5,751	1960
27	Tennessee Gas & Oil Co----	Rolling Mesa 4-----	Abd	6,368	1960
31	Carter Oil Co-----	Government-Fehr-Lyon 2	Abd	6,345	1959
33	----do-----	Government-Fehr-Lyon 1	Abd	6,283	1959
36	----do-----	Navajo-Gothic 2-----	Abd	6,780	1956
T. 40 S., R. 22 E.					
4	Carter Oil Co-----	Bluff Bench 6-----	Abd	6,080	1958
17	----do-----	Bluff Bench 5-----	Abd	5,862	1958
20	----do-----	Bluff Bench 4-----	POW	5,633	1957
21	----do-----	Bluff Bench 8-----	POW	5,585	1958
33	----do-----	Navajo 39-1-----	Abd	5,729	1958

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 41 S., R. 17 E.					
36	Utah Petroleum Corp-----	Frances Clark1-----	Abd	1,707	1927
T. 41 S., R. 18 E.					
1	Service Oil Co-----	Columbus-Rexall 1---	Abd	3,005	1957
1	-----	Ashenhurst 2-----	Abd	20	Pre-1920
1	-----	1-----	Abd	300	Pre-1920
1	-----	1-----	Abd	50	1910
1	-----	2-----	Abd	(1)	Pre-1920
2	-----	-----	Abd	20	Pre-1920
2	Pinnacle Oil Co-----	1-----	Abd	520	1909
3	-----	-----	Abd	10	Pre-1920
4	-----	1-----	Abd	10	Pre-1920
4	-----	Olympic 1-----	Abd	150	Pre-1920
9	Fulton, McKim + Hadlock	Government 1-----	Abd	143	1950
9	Fulton, McKim & Hadlock---	Government 1-A-----	Abd	1,646	1950
12	Pacific San Juan Co-----	1-----	Abd	60	1911
12	London-San Juan Oil Co----	1-----	Abd	520	1909
12	----do-----	2-----	Abd	450	1909
13	----do-----	4-----	Abd	(2)	1923
15	Aztec Oil Co-----	1-----	Abd	1,350	1912
16	-----	-----	Abd	30	Pre-1920
16	-----	-----	Abd	150	Pre-1920
17	-----	-----	Abd	150	Pre-1920
20	-----	-----	Abd	150	Pre-1920
22	-----	Humbolt-----	Abd	30	Pre-1920
22	San Juan-Dolores Co-----	1-----	Abd	80	Pre-1920
22	Palo Pinto Oil Co-----	1-----	Abd	900	1910

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 41 S., R. 18 E.--Continued					
22	----do-----	2-----	Abd	500	Pre-1920
23	San Juan Oil Co-----	Chicago 1-----	Abd	213	1912
24	-----	-----	Abd	50	1909
24	-----	-----	Abd	10	Pre-1920
24	-----	-----	Abd	10	Pre-1920
24	-----	-----	Abd	10	Pre-1920
25	MacFulton Drilling Co-----	1-----	Abd	1,025	1947
25	London-San Juan Oil Co-----	3-----	Abd	356	1909
26	Gooseneck Oil Co-----	1-----	Abd	(3)	Pre-1920
28	-----	-----	Abd	150	Pre-1920
28	-----	1-----	Abd	150	Pre-1920
29	-----	1-----	Abd	150	Pre-1920
36	Yates-McLane-----	1-----	Abd	260	1910
36	-----	Producers-----	Abd	800	Pre-1920
T. 41 S., R. 19 E.					
5	Redwood Oil Co-----	Elithia-----	Abd	50	1909
6	----do-----	Bitter Springs 1----	Abd	200	1909
6	----do-----	Bitter Springs 2----	Abd	160	1909
6	----do-----	Bitter Springs 3----	Abd	10	1912
7	F. H. King et al-----	1-----	Abd	50	1909
7	-----	-----	Abd	25	1909
8	San Francisco-San Juan Oil Co.	1-----	Abd	450	1908
8	----do-----	2-----	Abd	(1)	Pre-1920

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 41 S., R. 19 E.--Continued					
10	Jackson & McKee-----	1-----	Abd	100	1909
15	Oil Co. of San Juan-----	Golden Gate 1-----	Abd	500	1909
16	Barney Cockburn-----	1-----	Abd	354	1946
17	Pioneer Development Co-----	Conejos 1 -----	Abd	215	1908
17	Spokane Oil Co-----	McMoran 1-----	Abd	200	1908
18	-----	1-----	Abd	20	1909
19	San Francisco-San Juan Oil Co.	1-----	Abd	400	Pre-1920
20	-----	-----	Abd	10	Pre-1920
20	San Francisco-San Juan Oil Co.	1-----	Abd	500	1910
27	Utah Southern Oil Co.-----	Canyon 1 -----	Abd	1,870	1928
30	Barney Cockburn-----	1-----	Abd	1,580	1946
30	Connecticut Oil Co-----	1-----	Abd	26	1909
30	-----	-----	Abd	70	Pre-1920
31	A. C. Ellis-----	2-----	Abd	1,130	1925
31	----do-----	1-----	Abd	100	1925
31	-----	-----	Abd	(2)	Pre-1920
31	-----	-----	Abd	(3)	Pre-1920
31	Lone Cone Oil Co-----	1-----	Abd	700	Pre-1911
31	-----	Townsite-----	Abd	210	1912

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 41 S., R. 20 E.					
8	General Petroleum Corp-----	F-22-8-----	Abd	2,096	1958
25	Texaco, Inc-----	Navajo "V"-2-----	Abd	5,176	1960
36	Texaco, Inc-----	Navajo "V"-1-----	POW	8,016	1959
T. 41 S., R. 21 E.					
4	Champlin Oil & Refining Co.	Navajo 35-1-----	Abd	6,505	1959
24	Carter Oil Co-----	Navajo 21-1-----	POW	5,645	1959
25	Shell Oil Co-----	Tohonadla 41-25-----	POGW	6,114	1958
28	Miami Petroleum Co., Inc--	Navajo "B"-1-----	POW	5,830	1960
35	Shell Oil Co-----	Tohonadla 32-35-----	POGW	5,791	1958
35	----do-----	Tohonadla 41-35-----	POW	6,010	1958
35	----do-----	Tohonadla 12-35-----	POW	5,797	1958
35	----do-----	Tohonadla 1-----	POGW	6,345	1957
35	----do-----	Tohonadla 23-35-----	POW	5,764	1958
35	----do-----	Tohonadla 43-35-----	POGW	5,910	1958
T. 41 S., R. 22 E.					
7	Carter Oil Co-----	Navajo 30-1-----	Abd	7,098	1958
9	----do-----	Navajo 40-1-----	SD	5,885	1958
19	Miami Petroleum Co., Inc--	Navajo "C" 1-----	Abd	5,781	1960
28	Carter Oil Co-----	Navajo 42-1-----	Abd	6,336	1958
33	----do-----	Navajo 1-----	Abd	6,467	1955

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 42 S., R. 17 E.					
23	Monumental Oil Co-----	K. L. Jones et al 1-----	Abd	756	1923
23	----do-----	1 A-----	Abd	1,680	1924
T. 42 S., R. 18 E.					
1	Arcola Oil Co-----	1-----	Abd	25	1911
1	-----	1-----	Abd	400	1909
19	Monumental Oil Co-----	1-----	Abd	1,140	1923
19	----do-----	2-----	Abd	1,622	1924
T. 42 S., R. 19 E.					
5	R. L. Raplee-----	1-----	Abd	900	1912
5	Monumental Oil Co-----	Jackson 1-----	Abd	635	1909
5	Mexican Hat Oil Co-----	2-----	Abd	300	1944
5	Southside Oil Co-----	1-----	Abd	600	1910
5	Western Investments Co----	Bryce 1-----	Abd	500	1909
5	Anderson Oil and Develop- ment Co.	Hudson 1-----	Abd	1,222	1909
6	Western Investment Co-----	Bryce 1-----	Abd	500	1910
6	Arcola Oil Co-----	3-----	Abd	210	1910
6	-----	-----	Abd	10	1910
6	Mexican Hat Oil Ventures--	Redbed 1-----	Abd	256	1958
6	Arcola Oil Co-----	Utah Southern 1-----	Abd	713	1930
6	Western Investment Co-----	Bryce 2-----	Abd	517	1909
6	Arcola Oil Co-----	4-----	Abd	50	1909
6	-----	Producers 1-----	Abd	800	1910
6	F. S. Munson-----	1-----	SD	360	1948

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year com- pleted
T. 42 S., R. 19 E.--Continued					
6	Allen-Wooley-----	1-----	Abd	740	1944
6	----do-----	2-----	SD	335	1947
6	----do-----	3-----	SD	440	1948
6	----do-----	5-----	Abd	1,130	1931
6	Bluff Oil Co-----	Mexican Hat 1-----	Abd	362	1922
6	----do-----	2-----	Abd	630	1925
6	Oil Company of San Juan---	Burlap 1-----	Abd	284	1909
6	Urado Development Co-----	1-----	Abd	271	1945
6	----do-----	2-----	Abd	257	1945
6	----do-----	3-----	Abd	645	1945
6	----do-----	4-----	Abd	269	1945
7	Barney Cockburn-----	2-----	Abd	241	1946
7	-----	Goodridge 1-----	Abd	100	Pre-1920
7	Urado Development Co-----	Monticello 1-----	Abd	273	1945
7	San Juan Oil and Refining Co.	1-----	SD	215	1944
7	Mexican Hat Oil Co-----	1-----	SD	205	1944
7	W. E. Nevills-----	6-----	SD	194	1933
7	Oil Company of San Juan---	Crossing 1-----	Abd	226	1908
7	W. E. Nevills-----	7-----	Abd	225	1934
7	Conway Drilling Co-----	Ellis 2-----	POW	233	1954
8	Monticello Oil Co-----	Goodridge 4-----	Abd	263	1909
9					

List of wells drilled--Continued

Section	Operator	Well	Status	Total depth (feet)	Year completed
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T. 42 S., R. 19 E.--Continued

8	Barney Cockburn-----	1-----	SD	296	1945
8	----do-----	3-----	Abd	296	1946
8	----do-----	4-----	Abd	306	1946
8	----do-----	5-----	Abd	21	1946
8	----do-----	6-----	Abd	633	1946
8	Pacific-San Juan Oil Co---	High Grade 6-----	Abd	600	Pre-1920
15	Associated Oil Co-----	1-----	Abd	10	1925

T. 42 S., R. 20 E.

10	Sinclair Oil & Gas Co-----	San Juan-Navajo 172-1	Abd	6151	1961
34	Shell Oil Co-----	Dzaneez 1-----	Abd	5558	1961

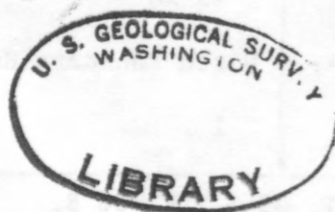
T. 42 S., R. 21 E.

1	Carter Oil Co-----	Navajo 23-2-----	Abd	6,010	1959
1	Miami Petroleum Co., Inc--	Navajo "A"-1-----	Abd	5,970	1960
2	Carter Oil Co-----	Navajo 23-1-----	POW	5,950	1957
2	----do-----	Navajo 23-3-----	Abd	5,935	1959
3	Davis Oil Co-----	Navajo-Tohonadla 1---	Abd	5,962	1958
10	E. B. LaRue, Jr-----	Navajo 1-----	Abd	6,189	1959
33	Ohio Oil Co-----	Chinle Wash 31-38----	Abd	5,350	1959

List of wells drilled--Continued



Section	Operator	Well	Status	Total depth (feet)	Year completed
T. 42 S., R. 22 E.					
7	Shell Oil Co-----	Tohonadla 2-----	SD	6,099	1957
16	----do-----	North Boundary Butte 2	Abd	5,925	1960
28	----do-----	North Boundary Butte 43-28	POW	5,586	1956
33	----do-----	North Boundary Butte 1	POGW	5,975	1955
T. 43 S., R. 20 E.					
6	Pan American Petroleum Corp.	Navajo 161-1-----	Abd	4,245	1958
T. 43 S., R. 21 E.					
4	U.S. Smelting, Refining & Mining Co.	Ohio-Navajo 1-4-----	PGW	5,181	1958
5	----do-----	Ohio-Navajo 1-5-----	Abd	5,772	1957
9	----do-----	Ohio-Navajo 1-----	PGW	5,706	1957
10	Ohio Oil Co-----	Navajo 1-----	Abd	6,944	1954
T. 43 S., R. 22 E.					
4	Sinclair Oil & Gas Co----	Navajo 2-----	Abd	5,220	1960
6	Sunray Mid-Continent Oil Co.	Utah-Navajo 1-----	Abd	5,830	1957
16	Western Natural Gas Co---	English 9-----	POW	5,020	1957
16	----do-----	English-Tribal 7----	SD	5,409	1956
16	Wyoming Assoc. Oil Corp--	F. A. Kemp 1-----	Abd	505	1924
20	Sunray Mid-Continent Oil Co.	Utah-Navajo "A"-1---	Abd	5,641	1958



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