

PALEONTOLOGICAL LABORATORY
INCORPORATED

P. O. BOX 51

AREA CODE 915
PHONE MU 2-4521

MIDLAND, TEXAS 79701

REPORT

May 1, 1964

EDDY COUNTY, NEW MEXICO

Southern Union Production Company

Elliott No. 1

Elev: 3866 DF

Sec. 24, T 18 S, R 23 E

660 FS&W lines of sec.

(16 miles SW of Artesia)

Comp: 5-17-48 TD: 9887 P&A

REVISED REPORT

(Supersedes Report issued August 15, 1948.)

(Samples re-examined from 4700 to 9810 feet; all previous data re-studied.)

Summary and Suggested "Markers"

- *4810: Top Wolfcamp limestone, by lithology
 - *4810-6020: Wolfcamp fusulines
 - *4810-5890: Hueco types
 - *4810-5290: Upper Hueco types
 - *5530-5890: Lower Hueco types
 - *5920-6020: Nondescript Wolfcamp types
- *6050: Top Cisco series, by lithology
 - *6060-6850: Cisco fusulines
 - *6060-6270: Thrifty types
 - *6330-6850: Graham types
- *6880: Top Canyon series, by lithology
 - *6880-7470: Canyon fusulines
 - *6880-6990: Post-Graford types
 - *7200-7300: Graford types
 - *7360-7470: Nondescript Canyon types
- *7470: Top lower Strawn limestone, by lithology & correlations
 - *7820-7840: Lower Strawn fusulines, lower Cherokee types
- *7870: Top Atoka series, by lithology
 - *7990-8000: Atoka fusulines
- *8020: Top Morrow series, by lithology
 - *8020-8030: Morrow fusulines
- Based primarily on lithology:
 - *8120: In Morrow series
 - 8120-8140: Samples missing.
 - *8140: In Chester limestone
 - *8250: Top "Meramec-Osage" limestone
 - 8740: Top Fusselman limestone
 - 9280: In Fusselman dolomite
 - 9280-9300: Samples missing.
 - 9300: In Montoya dolomite
 - *9370: Top Ellenburger dolomite
 - 9810 LSA: In Ellenburger dolomite

Before Examiner Quintana
Oil Conservation Division
Exhibit No. 2
Case 5385 (Re-opened)
Submitted by Yates Petroleum
Hearing Date: 8-28-85

Samples examined from 4700 to 9810 feet; TD: 9887 feet.

* - Additions to, and/or revisions of, Report issued August 15, 1948.

R. V. HOLLINGSWORTH

HAROLD L WILLIAMS

PALEONTOLOGICAL LABORATORY

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REPORT

March 1, 1965

EDDY COUNTY, NEW MEXICO

Humble Oil & Refining Company

O. A. Pearson No. 1

Elev: 3449 DF

(Formerly Mesa Retailers, Blindsake No. 1)

Sec. 2, T 16 S, R 25 E

330 FNL & 2982 FWL of sec.

(8 miles NW of Artesia)

Comp: 5-17-50 TD: 8243 P&A

REVISED REPORT

(Supersedes Report issued October 15, 1950.)

(Additional samples have been examined and all data reviewed.)

Summary and Suggested "Markers"

- *4879: Top Wolfcamp limestone, by lithology
- *5024-5730: Wolfcamp fusulines
- *5024-5600: Hueco types
- *5024-5220: Nondescript Hueco types
- *5220-5600: Lower Hueco types
- *5620-5730: Bursum types
- *5760: Top Cisco series, by lithology
- *5780-6240: Cisco fusulines
- *5780-6120: Nondescript Cisco types
- *6130-6240: Graham types
- *6250: Top Canyon series, by lithology
- *6300-6670: Canyon fusulines
- *6300-6610: Nondescript Canyon types
- *6650-6670: Lowermost Canyon types
- *6670: Top lower Strawn formation, by lithology
- *6710-6815: Lower Strawn fusulines, upper Cherokee types
- Based primarily on lithology:
- *6770: Top conglomerate
- 6845: Base Strawn series
- *6845: Top Chester limestone
- *6985: Top "Meramec-Osage" limestone
- *7280: Top "Kinderhook" limestone
- *7370: Top Fusselman limestone
- 7570: Top Montoya dolomite
- 7910: Top Ellenburger dolomite
- 8190: Top Bliss? sandstone
- 8200: Top quartzite
- 8240 LSA: In quartzite

Samples examined from 4500 to 8240 feet, TD: 8243 feet.

* - Additions to, and/or revisions of, Report issued October 15, 1950.

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INCORPORATED

P. O. BOX 51

PHONE MU 2-4521

MIDLAND, TEXAS

REPORT

June 15, 1961

EDDY COUNTY, NEW MEXICO

Bogle Oil Company

Bogle Farms No. 1

Elev: 3333 DF

Sec. 15, T 16 S, R 26 E

1980 FSL & 660 FEL of sec.

Comp: 2-27-61 TD: 7915 P&A

(OWDD: DeKalb Agric. Assn., Tom Bogle No. 1 - Comp: 6-15-48 TD: 5506 P&A)

(Supersedes Report issued June 15, 1951 on DeKalb Agric., Tom Bogle No. 1)

Summary and Suggested "Markers"

5395: Top Wolfcamp limestone, by lithology

5405-6110: Wolfcamp fusulines

5405-5880: Hueco types

5405-5505: Upper Hueco types

5710-5880: Lower Hueco types

5890-6110: Nondescript Wolfcamp types

6180: Top Cisco series, by lithology

6250-6820: Cisco fusulines

6250-6415: Thrifty types

6490-6820: Graham types

6830: Top Canyon series, by lithology

6830-7310: Canyon fusulines

6830-6920: Post-Graford types

6980-7160: Graford types

7200-7240: Palo Pinto types

7240-7310: Lowermost Canyon types

7310: Top lower Strawn limestone, by lithology

7420-7540: Lower Strawn fusulines, upper Cherokee types

Based primarily on lithology:

7710: Top Atoka series

7800: Base Atoka series

7800: Top Chester limestone

7895: Top "Meramec-Osage" limestone

7915 TD: In "Meramec-Osage" limestone

Samples examined from 5100 to 7915 feet, total depth.

Detailed Report

5100-5405: No fossils found

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P. O. BOX 51 915 682-4521
MIDLAND, TEXAS 79701

REPORT

February 15, 1972

EDDY COUNTY, NEW MEXICO

Continental Oil Company

Gertrude Duffield No. 1

Elev: 3573 DF

Sec. 21, T 16 S, R 27 E

1980 FS&W lines of section

(7 miles NE of Artesia)

Comp: 5-13-52 TD: 10,188 PB: 8766 Gas discovery

REVISED REPORT

(Supersedes Report issued July 1, 1952.)

(Samples re-examined and all data re-studied.)

Summary and Suggested "Markers"

6090: Top Wolfcamp limestone, by lithology

*6130-7100: Wolfcamp fusulines

*6130-6940: Hueco types

*6130-6190: Upper Hueco types

*6450-6940: Lower Hueco types

*6940-7100: Nondescript Wolfcamp types

7170: Top Cisco series, by lithology

*7170-7630: Cisco fusulines

*7690: Top Canyon series, by lithology

*7710-8030: Canyon fusulines

*7710-8020: Nondescript Canyon types

*8020-8030: Lowermost Canyon types

*8070: Top lower Strawn limestone, by lithology

*8180-8440: Lower Strawn (Cherokee) fusulines

*8180-8260: Upper Cherokee types

*8260-8440: Nondescript Cherokee types

*8470: Top Atoka series, by lithology

*8470-8650: Atoka fusulines

Based primarily on lithology:

*8690: Top Morrow(?) series

*8775: Base Morrow(?) series

*8775: Top Chester limestone

*8915: Top "Meramec-Osage" limestone

9210: Top "Kinderhook" shale

*9345: Top Fusselman limestone

*9400 LSE: In Fusselman limestone

Samples examined from 6000 to 9400 feet, TD: 10,188 feet.

* - Additions to, and/or revisions of Report issued July 1, 1952.

Lake
Sec.

Duffield Field
Eddy
County

Atoka Field

S H E L F

