

|                                    |                |                 |                             |                |                |                |                      |               |
|------------------------------------|----------------|-----------------|-----------------------------|----------------|----------------|----------------|----------------------|---------------|
| DATE<br>N.M.                       | COUNTY<br>Eddy | ELEVATION       | WELL NO.<br>1650 S<br>330 W | WELL NO.<br>19 | WELL NO.<br>17 | WELL NO.<br>26 | WELL NO.<br>Mene fee | WELL NO.<br>1 |
| NO. OF SAMPLES<br>KOT-<br>WTR-Fine | LOCATION       | 1650 S<br>330 W | S                           | T              | R              | FARM           | WELL NO.             |               |

| DEPTH  | DOLO | LIME | DESCRIPTION         | SALT        | SHALE              | SAND                      | CHT.                      | NOTES                    |
|--------|------|------|---------------------|-------------|--------------------|---------------------------|---------------------------|--------------------------|
| %      | %    | %    | %                   | %           | Red Gry. Grn. Blk. | Red Gry. Description      | %                         |                          |
| 200-10 | 100  |      | Buff FxIn           | some        | Recirc             | Mt-Gravel & cement        |                           |                          |
| 30     | 100  |      | Buff-Tn FxIn        |             |                    |                           |                           |                          |
| 40     | 100  |      | Brn CrXIn           | sl. sacrose | (Fine)             |                           |                           |                          |
| 50     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 60     | 100  |      | ✓                   | ✓           | ✓                  | Recirc - Gravel           |                           |                          |
| 70     | 100  |      | But-Tn-Brn FxIn     |             |                    |                           |                           |                          |
| 80     | 100  |      | Tan FxIn            |             |                    |                           |                           |                          |
| 90     | 100  |      | ✓                   | ✓           |                    |                           |                           |                          |
| 100    | 100  |      | ✓                   | ✓           |                    |                           |                           |                          |
| 1300   | 100  |      | ✓                   | ✓           |                    |                           |                           |                          |
| 10     | 100  |      | Tan CrXIn - Green   | Tr. Wht.    |                    |                           |                           |                          |
| 20     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 30     | 100  |      | Buff-Tn             | ✓           |                    |                           |                           |                          |
| 40     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 50     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 60     | 100  |      | ✓                   | ✓           | ✓                  | (Tr. Calcite Xls) Tr Fine |                           |                          |
| 70     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 80     | 100  |      | ✓                   | ✓           | ✓                  | Tr. xIn Por               |                           |                          |
| 90     | 100  |      | ✓                   | ✓           | ✓                  | 10                        | ✓                         |                          |
| 1400   | 100  |      | ✓                   | ✓           | ✓                  | 30                        | ✓                         | (Purple) oil odor & show |
| 10     | 100  |      | ✓                   | ✓           | ✓                  | 30                        | ✓                         | sho Oil & stain          |
| 20     | 100  |      | wt. Tan XIn         |             |                    | 20%                       | Purple Flour              |                          |
| 30     | 100  |      | ✓                   | ✓           | ✓                  | crXIn 20% stain & Por     | 20                        | ✓                        |
| 40     | 100  |      | H. G. - Tn Cl. & Ky |             |                    | Little or No Por          | No stain                  |                          |
| 50     | 100  |      | Tan-Brn CrXIn       |             |                    | Tr. Por & stain           | 10%                       | Flu Purple               |
| 60     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 70     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 80     | 100  |      | ✓                   | ✓           | ✓                  |                           |                           |                          |
| 90     | 100  |      | Tan CrXIn           |             |                    | Tr. Por & stain           | Fine                      |                          |
| 1500   | 100  |      | same                |             |                    |                           | ✓                         |                          |
| 10     | 100  |      | same                |             |                    |                           | ✓                         |                          |
| 20     | 100  |      | Brn CrXIn           |             |                    | 5 ples                    | Calc                      |                          |
| 30     | 100  |      | Brn                 | ✓           | ✓                  | TrXIn Por & stain         | Calcite & filled Por & ss |                          |
| 40     | 100  |      | ✓                   | ✓           | ✓                  | 10                        | same                      |                          |
| 50     | 100  |      | ✓                   | ✓           | ✓                  | 10                        | ✓                         |                          |

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| DATE<br>N. 11           | COUNTY<br>Eddy            | ELEV.<br>1650S<br>330W | NRL           | COMPANY<br>Don Angle |
| NO. OF SAMPLES<br>2-600 | LOCATION<br>1650S<br>330W | S<br>19                | T<br>17       | R<br>26              |
| FARM<br>Monofee         |                           |                        | WELL NO.<br>1 |                      |

| DEPTH     | DOLO<br>% | LIME<br>% | Description         | SALT<br>% | AHNY<br>% | SHALE |      |      |      | SAND |      | Description             | CHT.<br>% | NOTES                  |
|-----------|-----------|-----------|---------------------|-----------|-----------|-------|------|------|------|------|------|-------------------------|-----------|------------------------|
|           |           |           |                     |           |           | Red   | Gry. | Grn. | Blk. | Red  | Gry. |                         |           |                        |
| 1540-1600 | 100       |           | Tan-Brn CrXln       |           |           |       |      |      |      |      |      | Tr. Por y Calcite       |           | some st. Flour         |
| 70        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | Tr ✓                    |           | ✓                      |
| 80        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | 10% Good Por            |           | stain d. Flour ✓       |
| 90        | 100       |           | Tn & Lt Gyr FXln    |           |           |       |      |      |      |      |      |                         |           |                        |
| 100       | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      |                         |           |                        |
| 10        | 100       |           | Brn Xln             |           |           |       |      |      |      |      |      | 10% Por y sl. st.       |           | some y Calcite Tr. Sol |
| 20        | 100       |           | Buff & Brn Xln      |           |           |       |      |      |      |      |      | Tr. Por                 |           |                        |
| 30        | 100       |           | Lt. Gyr - Buff FXln |           |           |       |      |      |      |      |      |                         |           |                        |
| 40        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | Por y Calcite           |           |                        |
| 50        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      |                         |           |                        |
| 60        | 100       |           | Gyr FXln            |           |           |       |      |      |      |      |      |                         |           |                        |
| 70        | 100       |           | Brn Sucrose         |           |           |       |      |      |      |      |      | some Good Por y Calcite |           |                        |
| 80        | 100       |           | ✓                   |           |           |       |      |      |      |      |      | ✓ ✓                     |           |                        |
| 90        | 100       |           | Lt ✓                |           |           |       |      |      |      |      |      | ✓ ✓                     |           |                        |
| 1700      | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | Tr. Por 1 st. in        |           |                        |
| 10        | 100       |           | Brn FXln            |           |           |       |      |      |      |      |      | 10% FXln Por. Lt. stain |           |                        |
| 20        | 100       |           | Tan-Brn FXln        |           |           |       |      |      |      |      |      | Tr. Good Por Tr. st     |           |                        |
| 30        | 101       |           | ✓                   |           |           |       |      |      |      |      |      |                         |           |                        |
| 40        | 100       |           | Gyr to Brn FXln     |           |           |       |      |      |      |      |      | Tr. Xln Por             |           |                        |
| 50        | 100       |           | ✓                   |           |           |       |      |      |      |      |      | ✓ ✓                     |           |                        |
| 60        |           |           |                     |           |           |       |      |      |      |      |      |                         |           |                        |
| 70        | 100       |           | Brn CrXln           |           |           |       |      |      |      |      |      |                         |           |                        |
| 80        | 100       |           | Lt. Brn-Brn CrXln   |           |           |       |      |      |      |      |      | 30 Fair Por             |           | some Drk. st. Flour    |
| 90        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | same                    |           | Drill                  |
| 1800      | 100       |           | Brn Xln             |           |           |       |      |      |      |      |      | Tr. Por                 |           |                        |
| 10        | 90        |           | ✓                   |           |           |       |      |      |      |      |      | Min Flour               |           | 10 smoky               |
| 20        | 90        |           | Tan Gran            |           |           |       |      |      |      |      |      | sl. stain               |           | 10 L.                  |
| 30        | 100       |           | ✓ Xln               |           |           |       |      |      |      |      |      | sulfur                  |           | Tr ✓                   |
| 40        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | 10 Good Por             |           |                        |
| 50        | 100       |           | ✓ ✓                 |           |           |       |      |      |      |      |      | Tr. Por                 |           |                        |
| 60        | 90        |           | Brn Gran            |           |           |       |      |      |      |      |      | Fair Por y Calcite      |           | 10 ✓                   |
| 70        | 100       |           | ✓                   |           |           |       |      |      |      |      |      | Good                    |           | filled                 |
| 80        | 100       |           | Drk Brn-BLK Xln     |           |           |       |      |      |      |      |      | ✓                       |           | Dead Oil               |
| 90        | 90        |           | ✓ ✓                 |           |           |       |      |      |      |      |      |                         |           | 20 Gyr                 |
| 1900      | 100       |           | Brn-Tn Xln          |           |           |       |      |      |      |      |      | Tr. Por                 |           |                        |

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|---------------|---------------|----------|---------------|----|
| STATE         | COUNTY        | ELEV.    | COMPANY       |    |
| Ill           | Eddy          |          | MRL Don Anile |    |
| ND OF SAMPLES | LOCATION      | S        | T             | R  |
| 11            | 16505<br>330W | 19       | 17            | 26 |
| FARM          |               | WELL NO. |               |    |
| Menefee       |               | 1        |               |    |

| DEPTH                    | DOLO<br>% | LIME<br>% | Description                | SALT<br>% | AHNY<br>% | SHALE |      |      |      | SAND |      | Description               | CHT.<br>% | NOTES          |
|--------------------------|-----------|-----------|----------------------------|-----------|-----------|-------|------|------|------|------|------|---------------------------|-----------|----------------|
|                          |           |           |                            |           |           | Red   | Gry. | Grn. | Blk. | Red  | Gry. |                           |           |                |
| 900-10                   | 100       |           | Tan Xln                    |           |           |       |      |      |      |      |      | Good Por filled           |           |                |
| 20                       | 100       |           | Gry-Tan-Brn Xln            |           |           |       |      |      |      |      |      | same Por                  |           | Egg Frag       |
| 30                       | 100       |           | Tan-Lt. Brn Xln            |           |           |       |      |      |      |      |      | Fair Por                  |           | Tr. Doll Floor |
| 40                       | 100       |           | Tan-Gry Xln                |           |           |       |      |      |      |      |      | Tr Por y Dead stain       |           | Some ST        |
| 50                       | 100       |           | ✓ ✓ ✓                      |           |           |       |      |      |      |      |      | same                      |           | Some ST        |
| 60                       | 100       |           | Tan-Brn Xln                |           |           |       |      |      |      |      |      | Tr stain Dark stain       |           |                |
| 70                       | 100       |           | ✓ ✓ ✓                      |           |           |       |      |      |      |      |      | same                      |           |                |
| 80                       | 100       |           | Buff Fxln                  |           |           |       |      |      |      |      |      | Good Fxln Por             |           | Prob w/        |
| 90                       | 100       |           | same                       |           |           |       |      |      |      |      |      |                           |           | as sulfur      |
| 200                      | 100       |           | Tan Fxln                   |           |           |       |      |      |      |      |      | same                      |           | ✓ ✓            |
| 10                       | 100       |           | Tan ✓                      |           |           |       |      |      |      |      |      |                           |           |                |
| 20                       | ✓         |           | Buff Fxln                  |           |           |       |      |      |      |      |      | Fair Por                  |           | Prob w/        |
| 30                       | 100       |           | — ✓                        |           |           |       |      |      |      |      |      | Good Por y Secondary Dep. |           | Proph w/       |
| 40                       | 100       |           | Brn-BLK                    |           |           |       |      |      |      |      |      | same Por                  |           | No stain       |
| 50                       | 100       |           | Brn-Drk Brn                |           |           |       |      |      |      |      |      | sandy                     |           |                |
| 55-70                    |           |           | Tan Xln to sandy & Drk Brn |           |           |       |      |      |      |      |      | 20 Gry calc               | 10        | Gymnoid        |
| Probable Top Glar. 2050' |           |           |                            |           |           |       |      |      |      |      |      |                           |           |                |

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