



Sec. 23 Twp. 34 Rge. 34  East County SEWARD  
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| Drill Stem Tests Taken (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>List All E.Logs Run: SBT-CCL-GR, DIL, ML, CNL-LDT, SONIC, MSFL. | <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample<br><table style="width:100%; border-collapse: collapse;"> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> <tr> <td>CHASE</td> <td>2634</td> <td></td> </tr> <tr> <td>COUNCIL GROVE</td> <td>3002</td> <td></td> </tr> <tr> <td>HEEBNER</td> <td>4282</td> <td></td> </tr> <tr> <td>TORONTO</td> <td>4311</td> <td></td> </tr> <tr> <td>LANSING</td> <td>4432</td> <td></td> </tr> <tr> <td>MARMATON</td> <td>5108</td> <td></td> </tr> <tr> <td>CHEROKEE</td> <td>5419</td> <td></td> </tr> <tr> <td>MORROW</td> <td>5798</td> <td></td> </tr> <tr> <td>CHESTER</td> <td>6118</td> <td></td> </tr> <tr> <td>STE. GENEVIEVE</td> <td>6465</td> <td></td> </tr> <tr> <td>ST. LOUIS</td> <td>6488</td> <td></td> </tr> </table> | Name  | Top | Datum | CHASE | 2634 |  | COUNCIL GROVE | 3002 |  | HEEBNER | 4282 |  | TORONTO | 4311 |  | LANSING | 4432 |  | MARMATON | 5108 |  | CHEROKEE | 5419 |  | MORROW | 5798 |  | CHESTER | 6118 |  | STE. GENEVIEVE | 6465 |  | ST. LOUIS | 6488 |  |
|--|--|-------|-----|-------|-------|------|--|---------------|------|--|---------|------|--|---------|------|--|---------|------|--|----------|------|--|----------|------|--|--------|------|--|---------|------|--|----------------|------|--|-----------|------|--|
| Name   | Top  | Datum |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| CHASE  | 2634   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| COUNCIL GROVE  | 3002   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| HEEBNER  | 4282   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| TORONTO  | 4311   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| LANSING  | 4432   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| MARMATON   | 5108   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| CHEROKEE   | 5419   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| MORROW   | 5798   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| CHESTER  | 6118   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| STE. GENEVIEVE   | 6465   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |
| ST. LOUIS  | 6488   |       |     |       |       |      |  |               |      |  |         |      |  |         |      |  |         |      |  |          |      |  |          |      |  |        |      |  |         |      |  |                |      |  |           |      |  |

| CASING RECORD  |                   |                           |                 |               |                    |              |  |
|--|-------------------|---------------------------|-----------------|---------------|--------------------|--------------|--|
| <input checked="" type="checkbox"/> New <input type="checkbox"/> Used<br>Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                 |               |                    |              |  |
| Purpose of String  | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement     | # Sacks Used | Type and Percent Additives                             |
| SURFACE  | 12-1/4"           | 8-5/8"                    | 23.0            | 1640          | P+ MIDCON 2/<br>P+ | 660/160      | 3%CC, 1/4%SK FLC/<br>2%CC, 1/4%SK FLC.                 |
| PRODUCTION   | 7-7/8"            | 5-1/2"                    | 15.5            | 6274          | VERSASET           | 210          | .6% HALAD 322, 5%<br>KCL, .9% VERSASET,<br>1/4%SK FLC. |
|  |                   |                           |                 |               |                    |              |  |

| ADDITIONAL CEMENTING/SQUEEZE RECORD  |                     |                |             |                            |
|--|---------------------|----------------|-------------|----------------------------|
| Purpose:   | Depth<br>Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                     |                |             |                            |
|  |                     |                |             |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) Depth                        |
|----------------|---|--|
| 2              | 6110-6112, 6119-6140.   | ACID: 1500 GAL 7 1/2% FeHCL. 6110-6140 (OA)<br>FRAC: 35000 GAL XLINK GEL & 124000# 20/40 6110-6140 (OA)<br>SD. |
|                |   |  |

|               |               |                |           |  |
|---------------|---------------|----------------|-----------|--|
| TUBING RECORD | Size<br>2 3/8 | Set At<br>6092 | Packer At | Liner Run<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|---------------|----------------|-----------|--|

|  |   |
|--|---|
| Date of First, Resumed Production, SWD or Inj.<br>8-7-97 | Producing Method<br><input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |
|--|---|

|                                   |             |             |               |               |         |
|-----------------------------------|-------------|-------------|---------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil 2 Bbls. | Gas 537 Mcf | Water 1 Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-------------|-------------|---------------|---------------|---------|

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval 6110-6140 (OA)