

## Results of Directional Survey

|             |                     |           |                    |
|-------------|---------------------|-----------|--------------------|
| API number: | <b>30-025-39732</b> |           |                    |
| OGRID:      |                     | Operator: | <b>APACHE CORP</b> |
|             |                     | Property: | <b>OWEN B</b> # 13 |

|         |        |          |           |             |            |             |            |
|---------|--------|----------|-----------|-------------|------------|-------------|------------|
| surface | ULSTR: | <b>N</b> | <b>34</b> | <b>T</b>    | <b>21S</b> | <b>R</b>    | <b>37E</b> |
|         |        |          |           | <b>1120</b> | <b>FSL</b> | <b>1650</b> | <b>FWL</b> |

|             |           |               |            |             |            |             |            |
|-------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| BH Loc      | ULSTR:    | <b>N</b>      | <b>34</b>  | <b>T</b>    | <b>21S</b> | <b>R</b>    | <b>37E</b> |
| <b>7621</b> | <b>MD</b> | <b>7601.0</b> | <b>TVD</b> | <b>1287</b> | <b>FSL</b> | <b>1378</b> | <b>FWL</b> |

|             |           |               |            |             |            |             |            |
|-------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| Top Perf/OH | ULSTR:    | <b>N</b>      | <b>34</b>  | <b>T</b>    | <b>21S</b> | <b>R</b>    | <b>37E</b> |
| <b>6730</b> | <b>MD</b> | <b>6710.4</b> | <b>TVD</b> | <b>1259</b> | <b>FSL</b> | <b>1378</b> | <b>FWL</b> |

|             |           |               |            |             |            |             |            |
|-------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| Bot Perf/OH | ULSTR:    | <b>N</b>      | <b>34</b>  | <b>T</b>    | <b>21S</b> | <b>R</b>    | <b>37E</b> |
| <b>7560</b> | <b>MD</b> | <b>7540.0</b> | <b>TVD</b> | <b>1285</b> | <b>FSL</b> | <b>1378</b> | <b>FWL</b> |

|              |             |        |         |         |
|--------------|-------------|--------|---------|---------|
|              | MD          | N/S    | E/W     | VD      |
|              | 6708        | 138.10 | -272.30 | 6688.4  |
| TOP PERFS/OH | <b>6730</b> | 138.73 | -272.37 | 6710.39 |
|              | 6889        | 143.30 | -272.90 | 6869.30 |
|              | 7435        | 161.00 | -272.40 | 7415.00 |
| BOT PERFS/OH | <b>7560</b> | 164.91 | -272.40 | 7540.00 |
|              | 7467        | 162.00 | -272.40 | 7447.00 |

|              |             |        |         |         |
|--------------|-------------|--------|---------|---------|
| NEXT TO LAST | 7435        | 161.00 | -272.40 | 7415.00 |
| LAST READING | 7467        | 162.00 | -272.40 | 7447.00 |
| TD           | <b>7621</b> | 166.81 | -272.40 | 7601.00 |

|                  |      |    |      |    |
|------------------|------|----|------|----|
| Surface Location | 1120 | FS | 1650 | FW |
| Projected BHL    | 1287 | FS | 1378 | FW |
| Location of      |      |    |      |    |
| Top Perfs/OH     | 1259 | FS | 1378 | FW |
| Bottom Perfs/OH  | 1285 | FS | 1378 | FW |

### SUMMARY of Subsurface Locations

|                  |              |      |    |      |    |             |
|------------------|--------------|------|----|------|----|-------------|
| Surface Location | N-34-21S-37E | 1120 | FS | 1650 | FW | Vert. Depth |
|                  |              |      |    |      |    |             |
| Top Perfs/OH     | N-34-21S-37E | 1259 | FS | 1378 | FW | 6710.39     |
| Bottom Perfs/OH  | N-34-21S-37E | 1285 | FS | 1378 | FW | 7540.00     |
|                  |              |      |    |      |    |             |
| Projected TD     | N-34-21S-37E | 1287 | FS | 1378 | FW | 7601.00     |