

## Results of Directional Survey

30-025-35371

READ & STEVENS INC  
LIBERTY 4 # 1

|              | MD    | N/S   | E/W   | VD       |
|--------------|-------|-------|-------|----------|
|              | 10600 | 34.21 | 12.28 | 10592.6  |
| TOP PERFS/OH | 10604 | 34.37 | 11.69 | 10596.55 |
| BOT PERFS/OH | 10621 | 35.05 | 9.16  | 10613.34 |
|              | 10690 | 37.82 | -1.10 | 10681.5  |

|              |       |       |       |          |
|--------------|-------|-------|-------|----------|
| NEXT TO LAST | 13400 | 22.10 | 70.70 | 13385.2  |
| LAST READING | 13474 | 22.80 | 73.70 | 13459.1  |
| TD           | 13630 | 24.28 | 80.02 | 13614.89 |

|                  |      |    |     |    |
|------------------|------|----|-----|----|
| Surface Location | 1800 | FS | 330 | FW |
| Projected BHL    | 1824 | FS | 410 | FW |
| Location of      |      |    |     |    |
| Top Perfs        | 1834 | FS | 342 | FW |
| Bottom Perfs     | 1835 | FS | 339 | FW |

### SUMMARY of Subsurface Locations

|                  |             |      |    |     |    |
|------------------|-------------|------|----|-----|----|
| Surface Location | L-4-20S-36E | 1800 | FS | 330 | FW |
|                  |             |      |    |     |    |
| Top Perfs        | L-4-20S-36E | 1834 | FS | 342 | FW |
| Bottom Perfs     | L-4-20S-36E | 1835 | FS | 339 | FW |
|                  |             |      |    |     |    |
| Projected TD     | L-4-20S-36E | 1824 | FS | 410 | FW |

Perforations are **outside** the required producing area for a 320 acre proration unit comprising unit letters CDEFKLMN

