

# McPherson Drilling - Drillers Log

API NO. 15-

S. T. R.

LOCATION:

OPERATOR: Benson Mineral Group

COUNTY: Neosho

ADDRESS:

WELL NO. 1

LEASE NAME: Powers

FOOTAGE LOCATION:

FROM THE (S) (N) LINE

FROM THE (E) (W) LINE

PRINCIPLE CONTRACTOR:

MCPHERSON DRILLING

Rig 3

SPUD DATE: 11/6/00

COMPLETED DATE: 11/8/00

TOTAL DEPTH: 1122'

GEOLOGIST: Bill Stout

## CASING RECORD

|                | SURFACE  | PRODUCTION | COMMENTS: Gas Tests |
|----------------|----------|------------|---------------------|
| SIZE HOLE:     | 12 1/4"  | 6 3/4"     | 282 ft. 0 MCF       |
| SIZE CASING:   | 8 5/8"   |            | 602 ft. 0 MCF       |
| WEIGHT:        |          |            | 642 ft. 4 MCF       |
| SETTING DEPTH: | 20'      |            | 662 ft. 4 MCF       |
| TYPE CEMENT:   | Portland |            | 1082 ft. 0 MCF      |
| SACKS:         | 4        |            | 1122 ft. 0 MCF      |

## WELL LOG

| FORMATION  | TOP | BOTTOM | FORMATION   | TOP  | BOTTOM  | FORMATION | TOP | BOTTOM |
|------------|-----|--------|-------------|------|---------|-----------|-----|--------|
| soil       | 0   | 3      | shale       | 528  | 536     |           |     |        |
| clay       | 3   | 6      | pink lime   | 536  | 565     |           |     |        |
| shale      | 6   | 17     | shale       | 565  | 568     |           |     |        |
| sand       | 17  | 57     | lime        | 568  | 575     |           |     |        |
| coal       | 57  | 59     | shale       | 575  | 614     |           |     |        |
| shale      | 59  | 117    | oswego lime | 614  | 636     |           |     |        |
| sandy lime | 117 | 177    | summit      | 636  | 645     |           |     |        |
| shale      | 177 | 260    | lime        | 645  | 650     |           |     |        |
| lime       | 260 | 272    | mulkey      | 650  | 656     |           |     |        |
| shale      | 272 | 275    | shale/sand  | 656  | 795     |           |     |        |
| coal wet   | 275 | 279    | coal        | 795  | 797     |           |     |        |
| shale      | 279 | 287    | shale       | 797  | 970     |           |     |        |
| lime       | 287 | 332    | sandy shale | 970  | 1067    |           |     |        |
| shale      | 332 | 379    | coal        | 1067 | 1069    |           |     |        |
| lime       | 379 | 382    | shale       | 1069 | 1092    |           |     |        |
| shale      | 382 | 392    | miss lime   | 1092 | 1122 TD |           |     |        |
| coal       | 392 | 395    |             |      |         |           |     |        |
| shale      | 395 | 400    |             |      |         |           |     |        |
| lime       | 400 | 410    |             |      |         |           |     |        |
| shale      | 410 | 424    |             |      |         |           |     |        |
| lime       | 424 | 437    |             |      |         |           |     |        |
| shale      | 437 | 485    |             |      |         |           |     |        |
| sand shale | 485 | 521    |             |      |         |           |     |        |
| pink lime  | 521 | 528    |             |      |         |           |     |        |