

**KERR-MCGEE OIL AND GAS ONSHORE LP**

**HALVERSON 1**

**SE SE 30 4N 68W 600' FSL 600' FEL**

**WELD,COLORADO**

**06/10/2013**

**AREA: N2**

**ROUTE: N22 Spud: 04/19/1986**

**WINS No.: 76808**

**AFE/WO#: 88371344**

**API#: 0512313056**

**GL: 4985**

**KB: 4997**

**MTD: 6075**

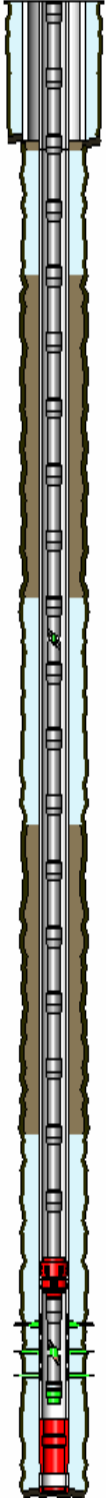
**TVD: 6075**

**LOG MD:**

**PBMD: 6026**

**PBTVD: 6026**

**Directions: WCR 3 & WCR 40, N 1/8, W INTO, 100 YDS W OF TK. BATT.**



| <u>HOLE SECTIONS</u> | <u>Size</u> | <u>Top</u> | <u>Btm</u> | <u>TD Date</u> |
|----------------------|-------------|------------|------------|----------------|
| SURFACE              | 12.25       | 12         | 385        | 04/19/1986     |
| PRODUCTION           | 7.88        | 385        | 6085       | 04/30/1986     |

| <u>TUBULARS</u>   | <u>Tool Type</u>    | <u>Joints</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>Thread</u> | <u>Top D</u> | <u>Bottom D</u> |
|-------------------|---------------------|---------------|-------------|---------------|--------------|---------------|--------------|-----------------|
| SURFACE CASING    | Casing              |               | 9.63        | 36            |              |               | 12           | 383             |
| PRODUCTION CASING | Casing              | 10            | 4.50        | 11.6          | FC-70        | LTC           | 12           | 428             |
|                   | Casing              | 139           | 4.50        | 11.6          | N-80         | LTC           | 428          | 6053            |
|                   | Casing Float Collar | 1             | 4.50        |               |              |               | 6053         | 6054            |
|                   | Casing              | 1             | 4.50        | 11.6          | N-80         | LTC           | 6054         | 6074            |
|                   | Casing Guide Shoe   | 1             | 4.50        |               |              |               | 6074         | 6075            |
| 3/4 RODS          | Polished Rod        | 1             | 1.25        |               |              |               | 12           | 34              |
|                   | Pony Rod(s)         | 1             | 0.75        |               |              |               | 34           | 38              |
|                   | Pony Rod(s)         | 1             | 0.75        |               |              |               | 38           | 42              |
|                   | Pony Rod(s)         | 1             | 0.75        |               |              |               | 42           | 50              |
|                   | Sucker Rod(s)       | 230           | 0.75        |               |              |               | 50           | 5800            |
|                   | Sinker Bars         | 6             | 1.25        |               |              |               | 5800         | 5950            |
|                   |                     | 1             | 2.00        |               |              |               | 5950         | 5972            |
| PRODUCTION TUBING | Tubing              | 180           | 2.38        | 4.70          | J-55         | External-Ups  | 12           | 5612            |
|                   | Anchor/Catcher      | 1             | 4.50        |               |              |               | 5612         | 5615            |
|                   | Tubing              | 10            | 2.38        | 4.70          | J-55         | External-Ups  | 5615         | 5929            |
|                   | Seating Nipple      | 1             | 2.38        |               |              |               | 5929         | 5930            |
|                   | Mud Anchor          | 1             |             |               |              |               | 5930         | 5955            |

| <u>CEMENT JOBS</u> | <u>Stage</u> | <u>Sacks</u> | <u>Cement Jobs</u> | <u>Top D</u> | <u>Btm D</u> | <u>cbl</u> |
|--------------------|--------------|--------------|--------------------|--------------|--------------|------------|
| SURFACE CASING     | STAGE 1      | 250          | UNKNOWN            | 12           | 383          | No         |
| PRODUCTION CASING  | STAGE 1      | 200          | G                  | 5034         | 6075         | Yes        |
| PRODUCTION CASING  | ONE INCH JOB | 625          | LEAD FRESH WATER   | 2525         | 3586         | Yes        |
| PRODUCTION CASING  | ONE INCH JOB | 100          | LEAD-1 FRESH WATER | 2550         | 2612         | Yes        |
|                    | ONE INCH JOB | 450          | LEAD-2 FRESH WATER | 433          | 1010         | Yes        |

| <u>PERFORATIONS</u> | <u>Formation</u> | <u>Zone</u> | <u>Top</u> | <u>Btm</u> | <u>Date</u> | <u>Reason</u> | <u>Comments</u> |
|---------------------|------------------|-------------|------------|------------|-------------|---------------|-----------------|
|                     | NIOBRARA         |             | 5695       | 5710       | 05/30/1986  | PRODUCTION    |                 |
|                     | NIOBRARA         |             | 5741       | 5757       | 05/30/1986  | PRODUCTION    |                 |
|                     | NIOBRARA         |             | 5793       | 5803       | 05/30/1986  | PRODUCTION    |                 |
|                     | CODELL           |             | 5892       | 5906       | 05/30/1986  | PRODUCTION    |                 |
|                     | CODELL           |             | 5892       | 5902       | 04/04/2002  | PRODUCTION    |                 |

**Comments:**