

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

**HART A GAS UNIT 1  
NW NE 27 2N 67W -- --  
WELD,COLORADO  
05/08/2014**

**AREA: W1**

**ROUTE: W17 Spud: 06/03/1971**

**WINS No.: 74487**

**AFE/WO#: 2096325**

**API#: 0512307327**

**GL: 4974**

**KB: 4985**

**MTD: 8160**

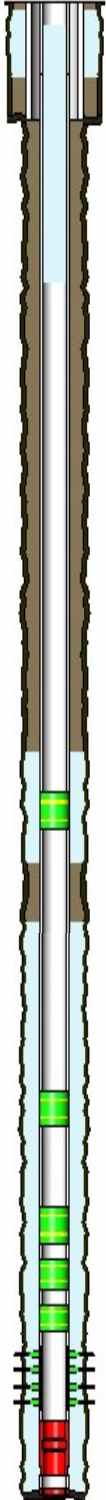
**TVD: 8160**

**LOG MD: 8159**

**PBMD: 8114**

**PBTVD: 8114**

**Directions: WCR 16 & WCR 21, NORTH 300 YDS, WEST 50 YDS, SOUTH 50 YDS, WEST 100 YDS INTO LOCATION.**



| <u>HOLE SECTIONS</u> | <u>Size</u> | <u>Top</u> | <u>Btm</u> | <u>TD Date</u> |
|----------------------|-------------|------------|------------|----------------|
| SURFACE              | 12.25       | 11         | 635        | 06/05/1971     |
| PRODUCTION           | 7.88        | 640        | 8160       | 06/12/1971     |

| <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               | 19            | 8.63        | 24            |              |               | 11           | 635             |
| PRODUCTION CASING         | Casing               | 9             | 4.50        | 11.60         | I-80         | 8RD LTC       | 11           | 389             |
|                           | Casing               | 240           | 4.50        | 11.6          | K-55         |               | 389          | 8113            |
|                           | Casing Float Collar  | 1             | 4.50        |               |              |               | 8113         | 8114            |
|                           | Casing               | 1             | 4.50        | 11.6          | K-55         |               | 8114         | 8151            |
|                           | Casing Guide Shoe    | 1             | 4.50        |               |              |               | 8151         | 8152            |
| BRIDGE PLUG               | Cast Iron Bridge Plu | 1             | 4.50        |               |              |               | 7960         | 7961            |
| BRIDGE PLUG               | Cast Iron Bridge Plu | 1             | 4.50        |               |              |               | 7900         | 7901            |
| BRIDGE PLUG               | CIBP With CMT Cap    | 1             | 4.50        |               |              |               | 7800         | 7801            |
| CAST IRON CEMENT RETAINER | Cement Retainer      | 1             | 4.50        |               |              |               | 6961         | 6962            |
| CAST IRON CEMENT RETAINER | Cement Retainer      | 1             | 4.50        |               |              |               | 4239         | 4240            |

| <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          | 300          | NEAT               | 50           | 404          | No         |
| PRODUCTION CASING  | STAGE 1          | 150          | 50/50 POZ-MIX      | 7300         | 8153         | No         |
| PRODUCTION CASING  | SQUEEZE JOB      | 260          | LEAD FRESH WATER   | 5200         | 7550         | No         |
| PRODUCTION CASING  | SQUEEZE JOB      | 300          | LEAD FRESH WATER   | 4020         | 4595         | No         |
| PRODUCTION CASING  | ABANDONMENT PLUC |              |                    | 129          | 1510         | No         |

| <u>PERFORATIONS</u> | <u>Formation</u> | <u>Zone</u> | <u>Top</u> | <u>Btm</u> | <u>Date</u> | <u>Reason</u>  | <u>Comments</u> |
|---------------------|------------------|-------------|------------|------------|-------------|----------------|-----------------|
|                     |                  |             | 4200       | 4201       | 04/15/2014  | CEMENT SQUEEZE |                 |
|                     |                  |             | 4595       | 4596       | 04/15/2014  | CEMENT SQUEEZE |                 |
|                     |                  |             | 6900       | 6901       | 04/10/2014  | CEMENT SQUEEZE |                 |
|                     |                  |             | 7550       | 7551       | 04/10/2014  | CEMENT SQUEEZE |                 |
|                     | J SAND           |             | 8040       | 8042       | 06/22/1971  | PRODUCTION     |                 |
|                     | J SAND           |             | 8053       | 8068       | 06/22/1971  | PRODUCTION     |                 |

**Comments:**