

## DRILLING REPORT

|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|---------------------------|----------------|-----------------------|------------------|---|------|------------|--------|--------------------|------|--------------------|-------|--------------------|---------|---------|--------------|--------------|-------------|------------------------|--------|-----------------|-------|------------------------------------|-----|--|--|
| WELL: UL Urad 1609-21 1H  |                |                       |                  |   |      |            |        |                    |      | CONTRACTOR: Cactus |       |                    |         |         |              |              |             |                        |        | RIG: Cactus 129 |       |                                    |     |  |  |
| RPT DATE: June 2, 2017    |                |                       |                  |   |      |            |        |                    |      | SPUD DATE: 5/28/17 |       |                    |         |         | CASING       |              |             | OD                     | WT     | GRD             | MD    | TVD                                |     |  |  |
| API #: 42495338430000     |                |                       |                  |   |      |            |        |                    |      | DFS: 5             |       |                    |         |         | Conductor    |              |             | 20                     | 94     | J-55            | 110   | 110                                |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      | REPORT NO: 6       |       |                    |         |         | Surface      |              |             | 13-3/8                 | 55     | J55             | 1,105 | 1,105                              |     |  |  |
| FIELD: Phantom (Wolfcamp) |                |                       |                  |   |      |            |        |                    |      | DOL: 11            |       |                    |         |         | Intermediate |              |             | 10-3/4                 | 46     | J-55            | 5,090 | 5,065                              |     |  |  |
| ELEV: 2,807               |                |                       |                  |   |      |            |        |                    |      | RKB:               |       |                    |         |         | 31           |              |             | LAST BOP TEST: 5/29/17 |        |                 |       |                                    |     |  |  |
| MD: 5,221                 |                |                       |                  |   |      |            |        |                    |      | TVD: 5,197         |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| 24 HR FTG: 116            |                |                       |                  |   |      |            |        |                    |      | HRS DRLG: 1        |       |                    |         |         | CSGHD: 2,807 |              |             |                        |        |                 |       |                                    |     |  |  |
| DRILLING FLUID            |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | SHOE TEST:             |        |                 |       |                                    |     |  |  |
| TIME                      | MW             | FV                    | WL               | 3RPM  | 6RPM | PH         | CAKE   | GELS (10s/10m/30m) |      |                    | PV    | YP                 | CL      | K       | Pf           | Mf           | Ca          | OIL                    | LGS    | HTHP            |       |                                    |     |  |  |
| 17:00                     | 9.7            | 32.0                  |                  | 1   | 1    | 8.0        | 1      | 1                  | 1    | 1                  | 1     | 1                  | 171.000 |         | 0.03         | 0.18         |             |                        | 0.04   |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       | REDUCED PUMP RATES |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       | PUMP               |         | SPM     |              | PRESS        |             | DEPTH                  |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       | #1                 |         | 60      |              | 300          |             | 4,457                  |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       | #2                 |         | 60      |              | 300          |             | 4,457                  |        |                 |       |                                    |     |  |  |
| BIT DATA                  |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| NO.                       |                | SIZE                  |                  | MAKE  |      | TYPE       |        | SER NO.            |      | NOZZLES            |       | RE-RUN             | IN      | OUT     | FEET         | HRS          | WOB         | RPM                    | ROP    |                 |       |                                    |     |  |  |
| 3                         |                | 9.88                  |                  | Smith   |      | PDC MM5SDC |        | 12917186           |      | 7 x 16             |       |                    | 5,105   | 5,221   | 116          | 1.0          | 28          | 74                     | 116    |                 |       |                                    |     |  |  |
| BIT NO.                   |                |                       |                  | INNER   |      | OUTER      |        | DULL               |      | LOC                |       | SEAL               | GAUGE   |         | OTHER        |              | RP          |                        |        |                 |       |                                    |     |  |  |
| HYDRAULICS DATA           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| PUMP                      | MAKE           |                       |                  | MODEL   |      | LINER      | STK    | SPM                | PSI  | GPM                | GPS   | EFF %              | ECD     | AV DP   | AV DC        | BIT HHP      | PUMP HHP    |                        |        |                 |       |                                    |     |  |  |
| 1                         | Gardner Denver |                       |                  | PXL   |      | 5.500      | 11.000 | 86                 | 3500 | 283                | .0784 | 97                 | 10.2    | 327     | 692          | 271.9        | 981         |                        |        |                 |       |                                    |     |  |  |
| 2                         | Gardner Denver |                       |                  | PXL   |      | 5.500      | 11.000 | 86                 | 3500 | 283                | .0784 | 97                 | 10.2    | 327     | 692          | 271.9        | 981         |                        |        |                 |       |                                    |     |  |  |
| BHA                       |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| DESCRIPTION:              |                | 9-7/8" Intermediate 2 |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| LENGTH                    |                | 2,122.64              |                  | BHA WT. AIR   |      |            |        | 176,550            |      | BHA WT. MUD        |       |                    |         | 165,000 |              | HRS. ON JARS |             |                        |        |                 |       |                                    |     |  |  |
| ROT. WT.                  |                | 215,000               |                  | P.U. WT.  |      |            |        | 220,000            |      | S.O. WT.           |       |                    |         | 200,000 |              | TORQUE       |             | 50,000                 |        |                 |       |                                    |     |  |  |
| TIME MADE UP              |                | 23:00                 |                  | DATE MADE UP  |      |            |        | 6/1/2017           |      | TIME PULLED        |       |                    |         |         |              | DATE PULLED  |             |                        |        |                 |       |                                    |     |  |  |
| SURVEY DATA               |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| MD                        |                |                       |                  | ANGLE   |      |            |        | AZIMUTH            |      |                    |       | TVD                |         |         |              | N/S          | COORDINATES |                        |        |                 | E/W   | V. SECTION                         | DLS |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
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| CONSUMABLES               |                |                       |                  | DIESEL FUEL (gal) Rcvd/Used/On Hand:  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       | DRILL H2O (gal) Rcvd/Used/On Hand: |     |  |  |
| OPERATIONS TIME LOG       |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
| FROM                      | TO             | HRS                   | CODE             |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | Start MD               | End MD |                 |       |                                    |     |  |  |
| 06:00                     | 11:00          | 5.0                   | Run Csg & Cement | Continue running 10.75" Intermediate 1 casing 1,344' - 5,090' as follows:<br>1 jt shoe track = 44.99'<br>119 jts = 5007.01'<br>Hanger & pup = 3.80'<br>Landing jt = 40.10'<br>Stick-up = 5.90'<br>Shoe @ 5,090'<br>Wash down & land hanger - Verify with GE (OK)<br>1 BSC every 3rd jt to surface casing - 31 Total<br>No mud loss while running casing   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 11:00                     | 12:30          | 1.5                   | Cond Mud & Circ  | Circ & wait on Schlumberger - Arrived 1.5 hrs late  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 12:30                     | 17:00          | 4.5                   | Run Csg & Cement | Install cement head - H/U & test lines - Mix, pump, & displace cement as follows:<br>20 bbl dyed water spacer @ 8.35 ppg<br>928 sxs (334 bbl slurry) @ 12.6 ppg w/ 2.02 yld<br>253 sxs (58 bbl slurry) @ 14.2 ppg w/ 1.29 yld<br>Displace with 488 bbbs brine water & bump plug w/ 1,350 psi - 500 psi over lift pressure<br>Held pressure for 3 minutes - Attempt to bleed off pressure - Flts not holding<br>3 attempts were made bleeding back 5 bbbs & pressuring back up on plug w/ no success |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 17:00                     | 19:00          | 2.0                   | Wait on Cement   | WOC due to Floats not holding   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 19:00                     | 19:30          | 0.5                   | Run Csg & Cement | Bleed off pressure to check flow - Monitor for 15 minutes (OK) - R/D cement head  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 19:30                     | 22:00          | 2.5                   | Run Csg & Cement | Back out & L/D landing jt - M/U, run & set pack-off - Test to 5,000 psi (OK) - Set wear bushing   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 22:00                     | 00:00          | 2.0                   | Trips            | P/U BHA #3 - 9-7/8" * MM5SDC * PDC bit w/ 7 x 16's --- 8" * 7/8 Lobe * 3.4 Stg * 1.5 Bend w/ 0.087 RPG Sperry Mtr<br>Scribe & orient Mtr - Surface test MWD   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 00:00                     | 03:00          | 3.0                   | Trips            | TIH to 4968'  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 03:00                     | 03:30          | 0.5                   | Other            | Test 10.75" casing to 1,500 psi & hold 30 min   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5105   |                 |       |                                    |     |  |  |
| 03:30                     | 04:30          | 1.0                   | Reaming          | Wash down to Fit collar 4,968' - 5,045' - Drill shoe track, rathole & 10' new hole to 5,115'  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5105                   | 5115   |                 |       |                                    |     |  |  |
| 04:30                     | 05:00          | 0.5                   | Other            | Perform FIT to 12 ppg EMW - 5,090' TVD w/ 9.7 ppg mud + 608 psi 12 ppg EMW  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5115                   | 5115   |                 |       |                                    |     |  |  |
| 05:00                     | 06:00          | 1.0                   | Drilling         | Drill 9.875" vertical hole 5,115' - 5,221' (106' @ 106 FPH)<br><br>Rotate: WOB 28 * PP 3,500 psi * SPM 258 * GPM 850 * Diff 70- 190 * T.D RPM 60 * MM RPM 74 * Total RPM 134  |      |            |        |                    |      |                    |       |                    |         |         |              |              |             | 5115                   | 5221   |                 |       |                                    |     |  |  |
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|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |
|                           |                |                       |                  |   |      |            |        |                    |      |                    |       |                    |         |         |              |              |             |                        |        |                 |       |                                    |     |  |  |