

Acidizing Record

- 1-21-58 Cardinal Chemical Co. attempted to acidize perfs. 9284-9300' w/1000 gals. 15% reg. TM-8 - TP 5000# - 20 min. - nothing in formation - developed leak. Started communication between tubing & casing.
- 1-23-58 Cardinal Chemical Co. acidized perfs. 9284-9300' w/1000 gals. 15% reg. TM-8, injection rate 1 BPM - 5 min. SD - 4800#. Swab 36 BLO (all) 5 hrs. Swab 10 bbls. acid water 6 hrs. - dry 3 hrs. - no shows. 14 BAW to recover.
- 1-24-58 Cardinal Chemical Co. re-acidized perfs. 9284-9300' w/2000 gals. 15% reg. TM-8, went 12 bbls. over spot before pressure, TP 4200-5100#. Injection rate 1.2 BPM 5 min. - SD 4900#. Swab 24 BLO 1 hr. - 4800' FIH - 12 BLO and 62 BAW to recover.
- 1-24-58 Cardinal Chemical Co. re-acidized perfs. 9284-9300' w/4000 gals. 15% reg. TM-8, TP 5100-6000# - injection rate 2½ BPM for 5 mins. SD 5200#. Flowed back 27 BLO 1 hr., ¾" choke. Swab 9 BLO (all) + 56 BAW 8 hrs., 250' FIH, slight show acid gas, S/O 100% AW. 4 bbls. last hr. 82 BAW to recover. Swab 4 BAW 1 hr. dry 6 hrs. No show gas. Swab out 2 hrs. Well opened to pit - swabbed - found dry - CP 500#. Slight vacuum 12 hrs. Vacuum will bleed 2 min., 2 bbls oil in csg. 78 BAW to recover.
- 1-25-58 Cardinal Chemical Co. re-acidized perfs. 9284-9300' w/8000 gals. 15% reg. non-emulsion acid. TP 5000-5500-5100#, no break. During flush unable to load pumps with high gravity oil thru 3" suction. Injection rate 3.1 BPM, 5 min. SI - 4900# - 13 bbls. acid in form. before pressure. Swab 36 BLO plus 24 bbls. mud emulsion + 74 bbls. AW in 15 hrs., slight show gas behind swab to vapor. Swab 1 bbl. last hr. - 75% AW + 25% mud emulsion - csg. slight vapor - 2½ bbls. to fill csg. Gas increased to steady slight blow 2 hrs. after 4 hrs. ran swab 1800' FIH (1200' in 4 hrs). Swab 3 BAW plus 2 bbls. mud emulsion 2 hrs. w/600' FIH - slight show gas after swab - 1 bbl. last hour 70% AW + 30 mud emulsion, pull swab - open to pit 8 hrs. - 2500' FIH (1900' in 8 hrs.). Swab 7 BAW + 28 mud emulsion 4 hrs. - 600' FIH - slight show gas after swab - 1 bbl. recovered. 1 run per hr. - hard to lower fluid level below 500' - 1½ bbls. to load csg.
- 2-13-58 Cardinal Chemical Co. acidized perfs. 9284-9300' w/1000 gals. 15% reg. TM-8, 8/10 bbl. per minute for 10 mins. S/D pressure 4300#, slight communication thru-out job. Acid well placed, pressure 2 hrs. Swab 16 BLO 1 hr. 6300' FIH, 20 BLO + 24 BAW to recover.
- 2-13-58 Cardinal Chemical Co. re-acidized perfs w/5000 gals. 15% reg. TM-8, 8 bbls. over spot and TP 2600-4900#, CP 2000-2700#. 94/100 BPM, 10 min. SD 4800#. Swab 32 BLO + 19 BAW 5 hrs. 1800' FIH. Fair show acid gas - 7 bbls. last hr. 100% acid water. 5 BLO + 12 BAW to recover.
- 2-17-58 Cardinal Chemical Co. acidized perfs. 9258-9263' w/1000 gals. 15% reg. TM-8. Injection rate 8/10 BPM - 5 Min. SD 4600#, 6 bbls. over spot before pressure. Swab 36 BLO + 24 bbls. AW (all) 10 hrs. Dry 2 hrs. No shows. Acid hot.
- 2-17-58 Cardinal Chemical Co. re-acidized perfs. 9258-9263' w/5000 gals. 15% reg. behind 25 BLO. Oil 6 bbls. over spot, oil 0-4800#. Injection rate 2.4 BPM. Acid 4800-5600#, injection rate 1.8 BPM, S/D 5500#, 1 hr. 30 min. S/D 5400#, 1 hr. 5200#, CP 2300-2500#, during treatment 2500-2700#, slight flow back. Swab 36 BLO + 23 BAW 2 hrs. 6300' FIH. Fair show acid gas. 13½ bbls. last hr. 25 BLO + 97 BAW to recover.
- 2-22-58 Cardinal Chemical Co. acidized perfs. 9223-9227' w/1000 gals. 15% reg. TM-8. 3 BLO ahead of acid, 4 bbls. in formation before pressure. TP 4000-3600#, 22 BA in formation when broke. Injection rate 1.3 BPM. 5 min. SI 2800-2600#, 8 min. 1500#. Swab 39 BLO + 24 BAW 4 hrs. All BLO and AW recovered. Then swab 25 BLO + 28 BAW 6 hrs. Communicated Bough "C". Swab 34 BWO + 14 BAW 10 hrs. 500' FIH. Gas decreased from good to slight show 20 hrs. 2 bbls. fluid last hr. 10% AW.

10/10/10

1. The first part of the document is a list of the names of the people who were present at the meeting. The names are listed in alphabetical order.

2. The second part of the document is a list of the topics that were discussed at the meeting. The topics are listed in alphabetical order.

3. The third part of the document is a list of the actions that were taken at the meeting. The actions are listed in alphabetical order.

4. The fourth part of the document is a list of the decisions that were made at the meeting. The decisions are listed in alphabetical order.

5. The fifth part of the document is a list of the recommendations that were made at the meeting. The recommendations are listed in alphabetical order.

6. The sixth part of the document is a list of the conclusions that were reached at the meeting. The conclusions are listed in alphabetical order.

7. The seventh part of the document is a list of the next steps that need to be taken. The next steps are listed in alphabetical order.

8. The eighth part of the document is a list of the people who were responsible for the actions that were taken at the meeting. The people are listed in alphabetical order.

9. The ninth part of the document is a list of the people who were responsible for the decisions that were made at the meeting. The people are listed in alphabetical order.

10. The tenth part of the document is a list of the people who were responsible for the recommendations that were made at the meeting. The people are listed in alphabetical order.