

CITIES SERVICE COMPANY

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Daily Well History - Interim Report

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Completion Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. Submit the Interim Report on all wells that have suspended drilling activity.

| DATE AND DEPTH | DESCRIPTION OF WORK PERFORMED |
|--|---|
| LEASE UNIT NAME AND WELL NO. COOPER G #2 <i>NE NW NW 26-32-33</i> | |
| COUNTY - PARISH - STATE - PROVINCE Seward County, Kansas | |
| FIELD OR PROSPECT NAME REGION Mid-Cont (South) | |
| AFE NUMBER | |
| 8/28/80 | PBTID 5074', 5 1/2" csg @ 5146'. Prep to swab well dwn @ 7:00 AM. Ran impression blk.dwn 2-3/8" tbg to SN @ 4400'. No impression. Fish not in tbg. POOH w/2-3/8" tbg & SN. RIH w/impression blk. Had impression of fishing neck on swab. RIH w/overshot, bumper sub on 2-3/8" tbg to 5050'. Latched onto fish. POOH w/fish. Recovered entire swab. RIH w/tbg to 4400'. SDFN. |
| 8/29/80 | PBTID 5074', 5 1/2" csg @ 5146'. Marmaton 4937-4944'. Swab testing well @ 7:00 AM. Swab well dwn to 4000'. POOH w/2-3/8" tbg & SN. RU McCullough Perf'd Marmaton 4937-44' w/3 DPJSPF. RIH w/5 1/2" Baker Retrievmatic pkr & 2-3/8" tbg & SN & set pkr @ 4915' w/SN @ 4912'. KB. Swab 6 BLW in 2 1/2 hrs w/no show oil or gas. Swb'd tbg dry to SN @ 4912'. All load rec'd. SDFN. |
| 8/30/80 | PBTID 5074', 5 1/2" csg at 5146'. Marmaton 4937-4944'. Swb'd 5 Swb testing Marmaton 4937-4944'. Ran swb, found fluid at 3700'. Swb'd 5 BNW in 4 hrs. NS oil or gas. RU Halliburton, loaded csg annulus w/2% KCLW press to 500 psi. Acidized dn 2-3/8" tbg as follows: 500 gals 15% HCl, 1 gal Halco 55, 1 gal 3 M non-emulsifier, 3 gals Morflow II, flushed w/21 bbl 2% KCLW w/5 gals Morflow II, AIR 2 bpm, Max press 2150 psi, avg press 1200 psi, ISIP 450 psi, 0 psi in 30 mins. TLT 33 bbls. Swb'd 33 BLW in 4 hrs, NS oil or gas. 0 BLWTR. |
| 8/31/80 | SDFS. 17 hr SITP 0 psi, ran swab, found FL at 2800'. Swb'd 15 BNW in 7 hrs from SN, swb'd 1 bph last hr. NS oil or gas. Rec total of 51 BNW. SI & SDFN. |
| 9/1/80 | SDFS. SD for holiday. |
| 9/2/80 | Swab testing. SD for holiday. |
| 9/3/80 | PBTID 5074', 5 1/2" csg at 5146', Marmaton 4937-44'. Prep to set CIBP. |
| 9/4/80 | PBTID 4920', 5 1/2" csg at 5146', Marmaton 4937-44'. Prep to perf Marmaton 4878-4888'. POOH w/tbg & SN. Set CIBP @ 4920', dumped 1 sx cmt on plug. Tested csg & BP to 1000 psi for 30 mins, held OK. Run tbg to 4880', spotted 50 bbls 2% KCLW. Swb'd dn to 4000'. POOH w/tbg & SDFN. |
| 9/5/80 | PBTID 4908', 5 1/2" csg at 5146', Marmaton 4876-4888'. Prep to acidize Marmaton 4876-4888'. MIRU McCullough, Chk'd PBTID @ 4908'. Perf Marmaton 4876-4888' w/3 DPJSPF, 12', 36 holes. Ran Baker Retrievmatic pkr on 152 jts 2-3/8" tbg, set pkr at 4853', SN at 4850'. Swb'd 8 BLW & 7 BNW in 5 hrs, swb'd 1 BNW last hr. NS oil or gas. TNWR 7 bbls. SI & SDFN. This AM, had 30 psi on tbg, blew dn immediately, chk as gas by burning in pit. FL @ 3000'. TCTD \$202,185. |

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| LEASE UNIT NAME AND WELL NO. | | REGION | |
|------------------------------|--|------------------------|--|
| COOPER G #2 | | Mid-Cont (South) | |
| COUNTY-PARISH-STATE-PROVINCE | | FIELD OR PROSPECT NAME | |
| Seward County, Kansas | | | |
| DATE AND DEPTH | DESCRIPTION OF WORK PERFORMED | | |
| 9/6/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Prep to flow test well. Swb well dn to SN at 4850', rec 8 BNW in 2 hrs. RU Halliburton, loaded csg annulus w/2% KCLW, press to 750 psi. Acidized Marmaton dn 2-3/8" tbg w/500 gals 15% HCl w/1 gal Halco55, 1 gal 3N, 2 gals Morf102, flushed w/w/21 bbls 2% KCLW w/2 gals Morf102. Max press 1860 psi, avg press 1250 psi, AIR 3 bpm, ISIP 250 psi, 0 in 5 mins. TL&T 33 bbls. Swb'd 33 BLW & 20 BNW & 5 B0 in 5 hrs, had good show gas. Swb'd from SN at 4850'. SI & SDFN. This AM, had 13 hr SITP of 1300 psi. TNWR 20 bbls. TOR 5 bbls. SDFS. 13 hr SITP 1350 psi. Blew well dn in 1 hr, flw'd 1/2 B0 & 1½ BW. Well gassing. SI to install chk eqpt for 5 hrs, press built to 250 psi. Opened well, flw'd 1/2 B0 & 1½ BW in 1 hr. Ran swab, swb'd 3 B0 & 10 BW in 1 hr. Found FL at 2500', swb'd from 3000'. SI 1 hr, TP built to 250 psi, flw'd 1/2 B0 & 1½ BW in 1 hr. SI & SDFN. Oil rec 38 deg @ 70 deg F. Wtr anal: Cls 230,000 ppm, Sp Gr 1.150, pH 7. 9½ BNOR & 34½ BNWR. Prep to hook up separator & flow test. SIFS. | | |
| 9/8/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. | | |
| 9/9/80 | Flow testing Marmaton at 7 AM. 38 hr SITP 1350 psig. Connected up separator & opened up well. Well flw'd 1/2 B0 & 0 BW in 4 hrs. FTP 20 psig. Gas vol 109 MCFPD. SIFN. Total oil prod 10½ bbls. TNW prod 35 bbls. Wtr sample chk'd Sp Gr 1.150, Cls 118,500, pH 7.0. | | |
| 9/10/80 | PBTD 4908', 5½" csg @ 5146', Marmaton 4876-4888'. Swab testing Marmaton at 7 AM. 15 hr SITP 1200 psig. Swb'd 9½ B0 & 28 BNW in 10 hrs from SN at 4850'. Gas vol est at 100 MCFPD, swb'g in test tank. Wtr sample chk'd Sp Gr 1.150, pH 7.0, Cls 118,500. SI & SDFN. TNOR 20 bbls. TNWR 63 bbls. | | |
| 9/11/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Swab testing at 7 AM. 14 hr SITP 1300 psig. Blew well dn. Swb'd 12 B0 & 38 BNW in 10 hrs from SN at 4850'. Gas vol est at 100 MCFPD. No change in wtr sample. SI & SDFN. TNO swb'd 32 bbls; TNW swb'd 101 bbls. | | |
| 9/12/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Swb'g to CU KCLW load at 7 AM. 10 hr SITP 1300 psig. Swb'd 5 B0 & 15 BW in 4 hrs. Unseated pkr & unloaded 91 bbls 2% KCLW. Swb'd 60 bbls 2% KCLW in 6 hrs. SDFN. Short 31 BLW. TEC \$274,912. TCTD \$211,950. | | |

CITIES SERVICE COMPANY

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Daily Well History - Interim Re

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Completion Report for the well. Interim Reports are required for all drill wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. Submit the Interim Report on all wells that have suspended drilling activity.

| LEASE UNIT NAME AND WELL NO. | | REGION | |
|------------------------------|--|------------------|--|
| COOPER G #2 | | Mid-Cont (South) | |
| COUNTY-PARISH-STATE-PROVINCE | | AFENUMBER | |
| Seward County, Kansas | | | |
| DATE AND DEPTH | DESCRIPTION OF WORK PERFORMED | | |
| 9/13/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Prep to POOH w/tbg & pkr at 7 AM. 10 hr SITP 1000 psig, CP 1400 psig, blew well dn. Swb'd 6 B0 & 21 bbls 2% KCLW & 20 bbls formation wtr in 10 hrs. All load rec'd. | | |
| 9/14/80 | SDFS. 14 hr SITP 1140 psig, CP 1140 psig. Blew well dn & POOH w/tbg & pkr Ran 152 jts 4.7#, 2-3/8" K55, 8rd, EUE Grade A tbg (4873') set at 4881' w/SN at 4867' KB. Ran 1¼ pmp on 140 3/4" rods & 53 7/8" rods w/stim hole coupling, no scrapers. SDFN. | | |
| 9/15/80 | Prep to space out rod string at 7 AM. SDFS. No crew out. | | |
| 9/16/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Prep to spud 12¼" hole at 7 AM. MIRU RT | | |
| 9/17/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Setting beam pmp'g equip at 7 AM. MI beam pmp'g unit. | | |
| 9/18/80 | PBTD 4908', 5½" csg t 5146', Marmaton 4876-4888'. Setting Beam pmp'g equip. | | |
| 9/19/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Setting beam pmp'g equip. | | |
| 9/20/80 | TCTD \$240,150. PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Setting beam pmp'g equip. SDFS. | | |
| 9/21/80 | SDFS. Prep to start up beam pmp'g equip. | | |
| 9/22/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing at 7 AM. | | |
| 9/23/80 | Finished RU beam pmp'g equip & POP 10 AM, 9/22/80. Rng 12 spm, 48" stroke, 1¼ pmp. Pmp'd 10 B0 & 5 BW in 6 hrs. All load fluid rec'd. | | |
| 9/24/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. No test. Engine died. | | |
| 9/25/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. No test - pmp stuck. Will MICU & check today. | | |
| 9/26/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Prep to hang well on beam at 7 AM. | | |
| | MIRU CU, POOH w/rods & pmp. Reran reconditioned 1¼" pmp on rods as pulled. SDFN. | | |
| | TCTD \$242,300. | | |
| 9/27/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp'g on test. Spaced out pmp & hung on beam. well pmp'g OK. | | |
| 9/28/80 | Pmp testing. No test, engine died. | | |
| 9/29/80 | Pmp testing. No test, no operator out. | | |
| 9/30/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. ON test at 7 AM. Repaired engine & POP. | | |
| 10/1/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4866-4888'. Pmp testing well. Pmp'd 10 B0 & 44 BW in 24 hrs. | | |
| 10/2/80 | PBTD 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing well. Pmp'd 10 B0 & 34 BW in 24 hrs, CP 40 psi, pmp @ 11-72" spm. | | |

SUBMIT ONE COMPLETED COPY TO ERG GENERAL OFFICE - TULSA

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| COOPER G #2 | | Mid-Cont (South) | |
| COUNTY - PARISH - STATE - PROVINCE | | FIELD OR PROSPECT NAME | |
| Seward County, Oklahoma | | | |
| DATE AND DEPTH | DESCRIPTION OF WORK PERFORMED | | |
| 10/3/80 | TD 3722'. Pmp testing. Pmp'd 5 B0 & 40 BW in 24 hrs. CP 30 psi. TCTD \$250,400. | | |
| 10/4/80 | PBTd 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. Pmp'd 5 B0& 40 BW in 24 hrs, CP 25 psi. | | |
| 10/5-6/80 10/7/80 | Pmp'g, no test, no operator out. PBTd 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. Pmp'd 13 B0 & 90 BW in 72 hrs. CP 25 psi. Shot FL, fluid at 4835', 1 jt above SN. | | |
| 10/8/80 | PBTd 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. | | |
| 10/9/80 | Pmp'd 4 B0 & 40 BW in 24 hrs. PBTd 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. Pmp'd 4 B0 & 26 BW in 24 hrs. | | |
| 10/10/80 | PBTd 4908', 5½" csg at 5146', Marmaton 4876-4888'. Pmp testing. Pmp'd 4 B0 & 45 BW in 24 hrs. Will drop from report pending test of additional zn. TCTD \$250,700. | | |