

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

ST

TX

Section

TwNShp

Rng

Section

12

Blk

20

Survey

Filename

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API # 42-495-33830

| DATE | DAILY REPORTS |
|---------------------------|--|
| JAN 12 2016 | Staked location 365' FNL & 330' FWL, Sec 12, Blk 20, Winkler County, Texas. Moved location 180' South from original calls of 185' FNL & 330' FWL due to a power line. (BLS) |
| MAR 16 2017 | Moved and restaked location from 365' FNL & 330' FWL, Sec 12, Blk 20, Winkler County, Texas to 465' FSL & 330' FWL, Sec 1, Blk 20, Winkler County, Texas. (BLS) |
| MAY 02-15 2017 | Building location. (BLS) |
| MAY 16 2017 | Location complete. Ready for cellar and rat holes. TWC - \$40,000. |
| JUN 11 2017 | MI Ready Drill. Installed 8' x 10' cellar & drill ratholes. Set 80' of 20" conductor pipe & cmt to surface w/Redi-mix. Verified location by GPS @ 465' FSL & 330' FWL, Sec 1, Blk 20, UL Survey, Winkler Co., TX. Start MI Patterson/UTI #220 w/Wilbanks Trucking Services from the Zuma 3 57-T1-3X10 #W102AP this A.M. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN/FL) |
| JUN 12 2017 | MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 30% Moved in. 5% Rigged up. Move Day 1. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN) |
| JUN 13 2017 | Continue MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 70% Moved in. 20% Rigged up. Move Day 2. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN) |
| JUN 14 2017 | Continue MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 80% Moved in. 20% Rigged up. Move Day 3. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN) |
| JUN 15 2017 | MI Sweatt Const & start building location. (JWB) Continue RU Patterson/UTI #220 w/Wilbanks Trucking Services. 100% Moved in. 75% Rigged up. Move Day 4. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN) |
| JUN 16 2017 | Continue building location. (JWB) Continue RU Patterson/UTI #220. 100% Moved in. 90% Rigged up. Move Day 5. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. CTWC \$40,000. AFEC \$8,427,300. (GH/LH/SN/JN) |
| JUN 17 2017 | Continue RU Patterson/UTI #220. 100% Moved in. 98% Rigged up. Move Day 6. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. CTWC \$40,000. AFEC \$8,427,300. (GH/LH/SN/SH) |
| JUN 18 2017 | 347' (267'). Operation: TOO H to run 13 3⁄8" csg. Formation: Surface Rock - Anhy. MW 8.8, Vis 33, pH 10, Cl 200, Ca 160, Solids 2%, DMC \$209, TMC \$209. Bit #1, Size 17 1⁄2", Make Ulterra, Type U616S (PDC), SN 33027, Jets 9-16's, In @ 80', Out @ 347', Made 267' in 5 1⁄4 hrs. PP 700#, RPM 70, WOB 25k, PR 50.9. (Finish RU 10 1⁄2, Mix spud mud & PU BHA 6, Drlg 5 1⁄4, Circ 1⁄2, Trip 1 3⁄4 hrs.) Remarks: Day 1. Finish RU. Mix spud mud & PU BHA. Spudded well w/Patterson/UTI #220 @ 10:30 P.M. MDT 06/17/17 (Notified Diana, operator #4, w/TRRC). Drlg from 80' to 347'. Circ sweep. TOO H. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$392,563. CTDC \$432,563. CTWC \$432,563. AFEC \$8,427,300. (GH/LH/SN/SH) |

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CountyWinklerSTTXSectionTwShpRng

Section12Blk20Survey

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|---------------|---|---------|------------------|-------|---|--------------------------|--------|---|--------------------------|-------|---|--------------------------|---------|---|-----------------------------|--------|---|--------------------|--------|--|-------|---------|--|---------------|-------|--|-----------|---------|
| JUN 19 2017 | <p>347' (0'). Operation: Testing BOPE. Formation: Anhy. MW 10.0, Vis 29, pH 10, Cl 170K, Ca 800, Solids <1%, DMC \$1,032, TMC \$1,241. Bit #1, Size 17 ½", Make Ulterra, Type U616S (PDC), SN 33027, Jets 9-16's, In @ 80', Out @ 347', Made 267' in 5 ¼ hrs. (Trip 1, Cut off conductor 2 ½, Run csg 3, Circ 1, Cmt 1 ½, WOC 8, NU BOPE 5, Test BOPE 2 hrs.)</p> <p>Remarks: Day 2. Finish LD BHA. Cut off conductor. Held safety meeting. RU Bull Rogers & run 13 ⅜" csg. Circ csg capacity. RU BJ Services & cmt. WOC. Held safety meeting. NU BOPE w/Man Welding. Testing BOPE w/Man Welding No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$112,201. CTDC \$544,764. CTWC \$544,764. AFEC \$8,427,300. (GH/LH/PN/SH)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 19 – CONT | <table><tr><td>1</td><td>Weatherford TPGS</td><td>0.66'</td></tr><tr><td>1</td><td>13 ⅜" 54.5# J55 ST&C Csg</td><td>42.15'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.39'</td></tr><tr><td>6</td><td>13 ⅜" 54.5# J55 ST&C Csg</td><td>252.68'</td></tr><tr><td>1</td><td>13 ⅜" 54.5# J55 ST&C Pup Jt</td><td>10.08'</td></tr><tr><td>1</td><td>13 ⅜" Landing tool</td><td>33.50'</td></tr><tr><td></td><td>Total</td><td>340.46'</td></tr><tr><td></td><td>Less above KB</td><td>3.46'</td></tr><tr><td></td><td>Csg set @</td><td>337.00'</td></tr></table> <p>(Note: Received 10 jts of 13 ⅜" 54.5# J55 ST&C csg (421.21' T-off) from WB Supply - Manufactured by Shin Yang. Returned 3 jts of 13 ⅜" 54.5# J55 ST&C csg (126.38' T-off) to WB Supply for credit.)</p> <p>Held safety meeting. Pumped 20 bbls FW spacer. BJ Services w/370 sks Class C w/1% CaCl₂ (yd 1.34 cuft/sk @ 14.8 PPG). Displace w/FW. Plug down @ 3:00 P.M. MDT 06/18/17. Circ 188 sks of cmt to the pit. (Notified Diana operator #4 but did not witness.)</p> | 1 | Weatherford TPGS | 0.66' | 1 | 13 ⅜" 54.5# J55 ST&C Csg | 42.15' | 1 | Weatherford Float Collar | 1.39' | 6 | 13 ⅜" 54.5# J55 ST&C Csg | 252.68' | 1 | 13 ⅜" 54.5# J55 ST&C Pup Jt | 10.08' | 1 | 13 ⅜" Landing tool | 33.50' | | Total | 340.46' | | Less above KB | 3.46' | | Csg set @ | 337.00' |
| 1 | Weatherford TPGS | 0.66' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 13 ⅜" 54.5# J55 ST&C Csg | 42.15' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Weatherford Float Collar | 1.39' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 13 ⅜" 54.5# J55 ST&C Csg | 252.68' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 13 ⅜" 54.5# J55 ST&C Pup Jt | 10.08' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 13 ⅜" Landing tool | 33.50' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | 340.46' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Less above KB | 3.46' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Csg set @ | 337.00' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 20 2017 | <p>1109' (762'). Operation: Drlg w/motor & MWD. Formation: Anhy - Salt. MW 10.0, Vis 28, pH 10, Cl 176k, Ca 1600, Solids <1%, DMC \$105, TMC \$1,346. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Made 762' in 8 hrs. PP 2850#, RPM 55/105, WOB 40k, PR 95.3. (Drlg 8, Test BOPE 3, Install wear bushing 1, Replace swivel packing 2, RR 1 ½, PU dir tools & test 3, RS 1, Trip 2 ¾, Test csg ½, Drlg plug, float & cmt 1, FIT test ¼ hrs.) Remarks: Day 3. Finish Testing BOPE to 5000# high/250# low & Annular to 3500# high/250# low. Tested standpipe & mud lines to the pumps to 5000#. Install wear bushing. Replace swivel packing. PU dir tools. RS. TIH. At 7:15 P.M. MDT 06/19/17, tested csg to 1500# for 30 min, held OK. Drlg plug, float & cmt. Drlg from 347' to 357'. FIT test to 10.5 PPG EMW. Drlg from 357' to 1109' w/surveys. BHA: Bit, Stryker 0.17 rpg 2.12° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 983.70'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$57,218. CTDC \$601,982. CTWC \$601,982. AFEC \$8,427,300. (GH/LH/PN/JN)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 21 2017 | <p>3642' (2533'). Operation: Drlg w/motor & MWD. Formation: Anhy - Salt. Dev @ 1376' - 0.4°, @ 1820' - 0.8°, @ 2170' - 1.7°, @ 2644' - 0.8°, @ 3118' - 1.1°. MW 10.0, Vis 29, pH 10, Cl 165k, Ca 2400, Solids <1%, DMC \$1,457, TMC \$2,803. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Made 3295' in 23 ¼ hrs. PP 3700#, RPM 55/105, WOB 40k, PR 166.1. (Drlg 15 ¼, RS ½, BOPE & H₂S drill ½, Surv 7 ½, Install rot head rubber ¼ hrs.) Remarks: Day 4. Drlg from 1109' to 3642' w/surveys, RS, BOPE & H₂S drills. BHA: Bit, Stryker 0.17 rpg 2.12° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO,</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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CountyWinklerSTTXSectionTwShpRng

Section12Blk20Survey

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|---------------|---|----------|------------------------|-------|---|-----------------------|--------|---|--------------------------|-------|-----|-----------------------|----------|---|------------------------------|-------|---|-------------------|--------|--|-------|----------|--|---------------|-------|--|-----------|----------|
| | 27-6" DC's, XO. Total BHA: 983.70'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$48,953. CTDC \$650,935. CTWC \$650,935. AFEC \$8,427,300. (GH/LH/PN/JN) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 22 2017 | 5031' (1389'). Operation: Drlg w/motor & MWD. Formation: Salt - Lime. Dev @ 3592' - 1.1°, @ 4066' - 0.3°, @ 4539' - 0.6°, @ 4823' - 1.7°. MW 10.2, Vis 29, pH 10, Cl 186k, Ca 440, Solids 1.3%, DMC \$1,489, TMC \$4,292. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Made 4684' in 42 ¾ hrs. PP 3700#, RPM 55/95, WOB 40k, PR 71.2. (Drlg 19 ½, Surv 4, RS ½ hrs.) Remarks: Day 5. Drlg from 3642' to 5031' w/surveys & RS. BHA: Bit, Stryker 0.17 rpg 2.12° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, 2-XO's. Total BHA: 985.90'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$50,044. CTDC \$700,979. CTWC \$700,979. AFEC \$8,427,300. (GH/LH/PN/JN) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 22 – CONT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 23 2017 | 5124' (93'). Operation: WOC - RD BJ Services. Formation: Lime - Dolo. Dev @ @ 5074' - 1.8°. MW 10.5, Vis 29, pH 9, Cl 185k, Ca 360, Solids 2.6%, DMC \$3,476, TMC \$7,768. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Out @ 5124', Made 4777' in 44 ¾ hrs. PP 3700#, RPM 55/95, WOB 40k, PR 46.5. (Drlg 2, Circ 3, Trip 5, LD DC's & dir tools 1 ¼, Pull wear bushing ¾, Run csg 7 ¾, Cmt 2 ½, WOC 1 ¼, RS ½ hrs.) Remarks: Day 6. Drlg from 5031' to 5124'. Circ sweep. TOOH. LD 8" DC's & dir tools. RS. Pull wear bushing. Held safety meeting. RU & run 9 ⅝" csg w/Bull Rogers. Set Cameron mandrel hanger through BOP w/150k#. Circ. Held safety meeting. RU BJ Services & cmt. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$53,636. CTDC \$754,615. CTWC \$754,615. AFEC \$8,427,300. (RJT/KJ/JN) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><td>1</td><td>Weatherford Float Shoe</td><td>1.64'</td></tr><tr><td>1</td><td>9 ⅝" 40# N80 LT&C Csg</td><td>41.36'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.55'</td></tr><tr><td>121</td><td>9 ⅝" 40# N80 LT&C Csg</td><td>5033.47'</td></tr><tr><td>1</td><td>9 ⅝" 40# N80 LT&C Csg Pup Jt</td><td>5.00'</td></tr><tr><td>1</td><td>9 ⅝" Landing Tool</td><td>34.98'</td></tr><tr><td></td><td>Total</td><td>5118.00'</td></tr><tr><td></td><td>Less above KB</td><td>4.00'</td></tr><tr><td></td><td>Csg set @</td><td>5114.00'</td></tr></table> | 1 | Weatherford Float Shoe | 1.64' | 1 | 9 ⅝" 40# N80 LT&C Csg | 41.36' | 1 | Weatherford Float Collar | 1.55' | 121 | 9 ⅝" 40# N80 LT&C Csg | 5033.47' | 1 | 9 ⅝" 40# N80 LT&C Csg Pup Jt | 5.00' | 1 | 9 ⅝" Landing Tool | 34.98' | | Total | 5118.00' | | Less above KB | 4.00' | | Csg set @ | 5114.00' |
| 1 | Weatherford Float Shoe | 1.64' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9 ⅝" 40# N80 LT&C Csg | 41.36' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Weatherford Float Collar | 1.55' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 121 | 9 ⅝" 40# N80 LT&C Csg | 5033.47' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9 ⅝" 40# N80 LT&C Csg Pup Jt | 5.00' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9 ⅝" Landing Tool | 34.98' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | 5118.00' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Less above KB | 4.00' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Csg set @ | 5114.00' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (Note: Received 126 jts of 9 ⅝" 40# N80 LT&C csg (5241.24' T-off) from WB Supply - Manufactured by Nexsteel. Returned 4 jts of 9 ⅝" 40# N80 LT&C csg (166.41' T-off) to WB Supply for credit.) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Held safety meeting. Pumped 20 bbls FW spacer. BJ Services cmt w/1150 sks Lite Class C (35:65:4) w/2% SMS, ⅛#/sk LCM, 5% Salt, 3#/sk KolSeal & 0.6% Retarder (yd @ 1.90 cuft/sk @ 12.8 PPG). Tail w/200 sks Class C w/0.1% Retarder & 0.25% Defoamer (yd @ 1.33 cuft/sk @ 14.8 PPG). Plug down @ 4:45 A.M. 06/23/17. Circ 277 sks of cmt to the pit. (Notified Dee, operator #5, with TRRC but did not witness.) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JUN 24 2017 | 5622' (498'). Operation: Drlg w/motor. Formation: Lime - Dolo. Dev @ 5205' - 1.2°. MW 8.5, Vis 29, pH 10, Cl 12k, Ca 360, Solids 1.0%, DMC \$2,819, TMC \$10,587. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Made 498' in 4 hrs. PP 2600#, RPM 65/94, WOB 35k, PR 124.5. (Drlg 4, Trip 6 ½, WOC 1 ¾, RS ½, RR 8 ¼, Safety stand down ½, Drlg plug, float & cmt 1 ¾, Test csg ½, FIT test ¼ hrs.) Remarks: Day 7. Set csg spool pack-off & test to 5000#. PU BHA. Replace IBOP & repair BOPE remote. TIH. Safety stand down. At 11:00 P.M. 06/23/17, tested csg to 1500# for 30 mins, held OK. Drlg plug, float & cmt. Drlg from 5124' to 5134'. FIT test to EMW of 9.6 PPG. Drlg from | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | 5134' to 5622' w/surveys & RS. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$249,783. CTDC \$1,004,398. CTWC \$1,004,398. AFEC \$8,427,300. (RJT/KJ/JN) |
| JUN 25 2017 | 7895' (2273'). Operation: Drlg w/motor. Formation: Lime - Dolo. Dev @ 5485' - 1.4°, @ 6045' - 0.6°, @ 6529' - 0.3°, @ 7003' - 0.2°, @ 7476' - 0.6°. MW 8.6, Vis 29, pH 10, Cl 12k, Ca 360, Solids 1.5%, DMC \$2,410, TMC \$12,997. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Made 2771' in 27 hrs. PP 2900#, RPM 65/94, WOB 40k, PR 98.8. (Drlg 23, RS ½, Surv ½ hrs.) Remarks: Day 8. Drlg from 5622 to 7895' w/surveys & RS. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$42,812. CTDC \$1,047,210. CTWC \$1,047,210. AFEC \$8,427,300. (RJT/KJ/LJ) |
| JUN 25 – CONT | |
| JUN 26 2017 | 9029' (1134'). Operation: Drlg w/motor & MWD. Formation: Lime - Sand. Dev @ 7990' - 0.7°, @ 8473' - 0.8°, @ 8803' - 0.8°. MW 9.4, Vis 29, pH 10, Cl 150k, Ca 1200, Solids <1%, DMC \$136, TMC \$13,133. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Made 3905' in 49 ¾ hrs. PP 2900#, RPM 65/147, WOB 40k, PR 49.8. (Drlg 22 ¾, Surv ¾, RS ½ hrs.) Remarks: Day 9. Drlg from 7895' to 9029' w/surveys & RS. BHA: Bit, Phoenix 0.25 rpg mtr, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 881.55'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$37,588. CTDC \$1,084,798. CTWC \$1,084,798. AFEC \$8,427,300. (RJT/KJ/LJ) |
| JUN 27 2017 | 9416' (387'). Operation: TIH w/bit #4. Formation: 50% Lime - 50% Chert. Dev @ 9084' - 0.5°, @ 9368' - 1.6°. MW 9.3, Vis 29, pH 10, Cl 150k, Ca 1440, Solids <1%, DMC \$105, TMC \$13,238. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Out @ 9416', Made 4292' in 58 ¼ hrs. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Made 0' in 0 hrs. PP 3500#, RPM 65/147, WOB 40k, PR 45.5. (Drlg 8 ½, Surv 1 ¼, Trip 11 ¼, RS ½, RR 2 ½ hrs.) Remarks: Day 10. Drlg from 9029' to 9416' w/surveys. TOOH. Repair electrical system. Continue TOOH. LD motor & PU tricone bit. Replace hose on catwalk. RS. TIH. BHA: Bit, Bit Sub, DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 883.56'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$47,522. CTDC \$1,132,320. CTWC \$1,132,320. AFEC \$8,427,300. (RJT/KJ/SN/JN) |
| JUN 28 2017 | 9805' (389'). Operation: Drlg. Formation: 60% Chert - 40% Lime. Dev @ 9463' - 1.6°, @ 9654' - 1.1°. MW 9.3, Vis 29, pH 10, Cl 150k, Ca 1200, Solids <1%, DMC \$447, TMC \$13,685. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Made 389' in 21 ½ hrs. PP 3300#, RPM 65, WOB 50k, PR 18.1. (Drlg 21 ½, Surv ¾, Trip 1, RS ½, BOPE & H2S drill ¼ hrs.) Remarks: Day 11. TIH. Drlg from 9029' to 9805' w/surveys, RS, BOPE & H2S drill. BHA: Bit, Bit Sub, DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 883.56'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$32,516. CTDC \$1,164,836. CTWC \$1,164,836. AFEC \$8,427,300. (RJT/KJ/SN/JN) |
| JUN 29 2017 | 10073' (268'). Operation: PU dir tools & test. Formation: 60% Sand - 30% Lime - 10% Shale. Dev @ 9822' - 1.6°, @ 9934' - 2.7°. MW 9.4, Vis 28, pH 10, Cl 150k, Ca 1200, Solids 2.8%, DMC \$105, TMC \$13,790. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Out @ 10073', Made 657' in 36 ¾ hrs. PP 3300#, RPM 65, WOB 50k, PR 17.6. (Drlg 15 ¼, Surv ½, Circ ¼, Trip 6 ¾, RS ½, BOPE & H2S drill ¼, PU dir tools ½ hrs.) Remarks: Day 12. Drlg from 9805' to 10073' w/surveys, RS, BOPE & H2S drill. Circ. TOOH. PU dir tools & test. BHA: Bit, Bit Sub, DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 883.56'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$52,193. CTDC \$1,217,029. CTWC \$1,217,029. AFEC \$8,427,300. (RJT/KJ/SN/JN) |
| JUN 30 2017 | 10680' (607'). Operation: Drlg w/motor & MWD. Formation: 60% Sand - 30% Lime - 10% |

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Lease

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| JUN 30 – CONT | Shale. Dev @ 10120' - 2.6°, @ 10499' - 1.1°. MW 9.4, Vis 29, pH 10, Cl 90k, Ca 1000, Solids 1.5%, DMC \$5,558, TMC \$19,348. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Out @ 10073', Made 657' in 36 ¾ hrs. Bit #5, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8229, Jets 7-16's, In @ 10073', Made 607' in 9 hrs. PP 4200#, RPM 60/164, WOB 40k, PR 67.4. (Drlg 9, Surv 1 ½, PU dir tools & test 2 ¼, Trip 8 ¾, RS ½, Cut drlg line 2 hrs.) Remarks: Day 13. PU dir tools & test. TIH. Cut drlg line. RS. Continue TIH. Drlg from 10073' to 10680' w/surveys. BHA: Bit, Stryker 0.28 rpg 1.83° adj mtr, UBHO, NMDC, XO, 26-6" DC's, XO. Total BHA: 882.06'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$50,724. CTDC \$1,267,753. CTWC \$1,267,253. AFEC \$8,427,300. (PN/JRH/JN) |
| JUL 01 2017 | 11238' (558'). Operation: Trip for bit. Formation: Shale - Lime. Dev @ 10782' - 1.7°, @ 11161' - 3.0°. MW 9.4, Vis 29, pH 10, Cl 90k, Ca 1000, Solids <1%, DMC \$104, TMC \$19,452. Bit #5, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8229, Jets 7-16's, In @ 10073', Made 1165' in 24 ¾ hrs. PP 4200#, RPM 60/141, WOB 40k, PR 35.4. (Drlg 15 ¾, Surv 1 ¾, Trip 6, RS ½ hrs.) Remarks: Day 14. Drlg from 10680' to 11238' w/surveys & RS. TOO. BHA: Bit, Stryker 0.28 rpg 1.83° adj mtr, UBHO, NMDC, XO, 26-6" DC's, XO. Total BHA: 882.06'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$56,626. CTDC \$1,324,379. CTWC \$1,324,379. AFEC \$8,427,300. (PN/JRH/LJ) |
| JUL 02 2017 | 11525' (287'). Operation: TOO to PU curve assy. Formation: Shale - Lime. Dev @ 11477' - 1.9°. MW 9.4, Vis 29, pH 10, Cl 110k, Ca 1000, Solids <1%, DMC \$253, TMC \$19,705. Bit #5, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8229, Jets 7-16's, In @ 10073', Out @ 11238', Made 1165' in 24 ¾ hrs. Bit #6, Size 8 ¾", Make Ulterra, Type U716M (PDC), SN 34269, Jets 7-18's, In @ 11238', Made 287' in 4 ¼ hrs. PP 3600#, RPM 60/141, WOB 40k, PR 67.5. (Drlg 4 ¼, Surv 1 ¼, Trip 14 ¼, RS ½, PU dir tools & test 3, Circ ¾ hrs.) Remarks: Day 15. Replace dir tools & test. TIH. Drlg from 11238' to 11525' w/surveys & RS. Circ sweep. TOO. BHA: Bit, Stryker 0.28 rpg 1.83° adj mtr, UBHO, NMDC, XO, 26-6" DC's, XO. Total BHA: 882.06'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$54,440. CTDC \$1,378,819. CTWC \$1,378,819. AFEC \$8,427,300. (PN/JRH/LJ) |
| JUL 03 2017 | 11846' MD (321'). Operation: Drlg w/motor & MWD. Formation: 80% Shale - 20% Lime. MW 9.5, Vis 32, WL 60, pH 10, PV 9, YP 11, Gels 15/20, FC 1/32", Cl 124k, Ca 1200, Solids 1.8%, DMC \$0, TMC \$19,705. Bit #6, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8229, Jets 7-16's, In @ 11238', Out @ 11525', Made 287' in 4 ¼ hrs. Bit #7, Size 8 ¾", Make HTC, Type KM624 (bicone/PDC), SN 5266797, Jets 4-18's, In @ 11525', Made 321' in 10 ¾ hrs. PP 3600#, RPM 60/140, WOB 30k, PR 29.9. (Drlg 10 ¾ (Rot 1 ¾ & Slide 9), Surv 1 ¾, Trip 7 ¼, RS ½, Replace rot head rubber ¾, Circ ½, PU dir tools & test 2 ½ hrs.) Remarks: Day 16. PU dir tools & test. TIH. RS. Circ. Drlg from 11525' to 11646' MD w/surveys. Replace rot head rubber. Drlg from 11646' to 11846' MD w/surveys. BHA: Bit, Stryker 0.28 rpg 2.25° fixed mtr w/KP, UBHO, NMDC Slick, NMDC Flex, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO's. Total BHA: 1988.03'. No fluid lost or gained. BG 575 units. CG 1375 units. TG 1475 units. EDCC \$0. CTCC \$0. EDDC \$71,641. CTDC \$1,450,460. CTWC \$1,450,460. AFEC \$8,427,300. (PN/JRH/LJ) 11570' MD (11567.3' TVD) 4.0° Inc @ 186.5° Azm 11601' MD (11598.2' TVD) 6.9° Inc @ 176.4° Azm 11633' MD (11629.8' TVD) 10.6° Inc @ 173.1° Azm.. 11665' MD (11661.1' TVD) 14.0° Inc @ 170.7° Azm 11696' MD (11691.0' TVD) 16.8° Inc @ 167.8° Azm 11728' MD (11721.3' TVD) 20.5° Inc @ 165.3° Azm 11760' MD (11750.9' TVD) 24.2° Inc @ 163.1° Azm |

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| JUL 04 2017 | <p>12310' MD (464'). Operation: LD BHA. Formation: 100% Shale. MW 9.5, Vis 40, WL 9, pH 8, PV 6, YP 4, Gels 3/7, FC 1/32", Cl 110k, Ca 120, Solids 1.0%, DMC \$0, TMC \$19,705. Bit #7, Size 8 ¾", Make HTC, Type KM624 (bicone/PDC), SN 5266797, Jets 4-18's, In @ 11525', Made 785' in 19 hrs. PP 3600#, RPM 30/140, WOB 40k, PR 56.2. (Drlg 8 ¼ (Rot 2 ¼ & Slide 6), Surv 4, Trip 5 ¾, RS ½, Circ 2, LD BHA 3 ½ hrs.) Remarks: Day 17. Drlg from 11846' to 12310' MD w/surveys & RS. Circ. TOOH & LD BHA. BHA: Bit, Stryker 0.28 rpg 2.25° fixed mtr w/KP, UBHO, NMDC Slick, NMDC Flex, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO's. Total BHA: 1988.03'. No fluid lost or gained. BG 750 units. CG 920 units. TG 1530 units. EDCC \$0. CTCC \$0. EDDC \$52,220. CTDC \$1,502,680. CTWC \$1,502,680. AFEC \$8,427,300. (PN/JRH/JN)</p> <p>11791' MD (11778.8' TVD) 27.2° Inc @ 161.8° Azm 11823' MD (11806.8' TVD) 30.9° Inc @ 160.5° Azm 11855' MD (11833.9' TVD) 33.2° Inc @ 160.5° Azm 11886' MD (11859.6' TVD) 34.7° Inc @ 161.2° Azm 11918' MD (11885.7' TVD) 36.2° Inc @ 161.6° Azm 11949' MD (11910.4' TVD) 38.0° Inc @ 162.1° Azm 11981' MD (11935.3' TVD) 40.0° Inc @ 163.1° Azm 12013' MD (11959.3' TVD) 42.6° Inc @ 163.7° Azm 12044' MD (11981.5' TVD) 46.0° Inc @ 164.3° Azm 12076' MD (12003.1' TVD) 49.2° Inc @ 163.9° Azm 12107' MD (12022.8' TVD) 51.7° Inc @ 162.7° Azm 12138' MD (12041.2' TVD) 55.3° Inc @ 161.7° Azm 12170' MD (12058.9' TVD) 57.7° Inc @ 161.9° Azm 12202' MD (12075.2' TVD) 61.0° Inc @ 163.2° Azm 12233' MD (12089.6' TVD) 63.6° Inc @ 164.2° Azm 12265' MD (12103.0' TVD) 66.8° Inc @ 165.4° Azm Projection to bit 12310' MD (12119.5' TVD) 72.2° Inc @ 163.0° Azm</p> |
| JUL 05 2017 | <p>12310' MD (0'). Operation: Running 7" csg. Formation: Shale. MW 9.5, Vis 40, WL 9, pH 8, PV 6, YP 5, Gels 3/7, FC 1/32", Cl 110k, Ca 160, Solids 1.0%, DMC \$2,879, TMC \$22,584. Bit #7, Size 8 ¾", Make HTC, Type KM624 (bicone/PDC), SN 5266797, Jets 4-18's, In @ 11525', Out @ 12310', Made 785' in 19 hrs. PP 100#. (LD BHA 2 ½, Pull wear bushing ½, Run csg 18 ¼, Circ 2 ¾ hrs.) Remarks: Day 18. Finish LD BHA. Held safety meeting. RU Bull Rogers & run 7" csg w/torque turn. Circ gas out @ 9900' MD. Continue running 7" csg. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$44,129. CTDC \$1,546,809. CTWC \$1,546,809. AFEC \$8,427,300. (PN/JRH/JN)</p> |
| JUL 06 2017 | <p>12241' MD (0'). Operation: Testing BOPE. Formation: Shale. DMC \$2,879, TMC \$25,463. (Run csg 2, Circ 2 ¾, Cmt 5 ¾, WOC 8, Test BOPE 5 ½ hrs.) Remarks: Day 19. Finish running 7" csg. Set Cameron mandrel hanger through BOP w/285k#. Circ csg capacity. RU BJ Services & cmt. WOC. Installed pack-off & tested to 5000#. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$478,819. CTDC \$2,025,628. CTWC \$2,025,628. AFEC \$8,427,300. (PN/JRH/JN)</p> <div><div>1</div><div>Weatherford Float Shoe</div><div>1.58'</div></div> <div><div>1</div><div>7" 29# P110 LT&C Csg</div><div>39.13'</div></div> |

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LeaseUniversity B20 12/13Well NoW101DDLocation365' FNL & 330' FWL

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| JUL 06 – CONT | 1 | Weatherford Float Collar | 1.25' |
| | 136 | 7" 29# P110 LT&C Csg | 5253.29' |
| | 16 | 7" 29# P110 LT&C Bond Coated Csg | 614.02' |
| | 1 | Weatherford ECP set @ 6383' | 26.60' |
| | 1 | 7" 29# P110 LT&C Bond Coated Csg | 39.04' |
| | 1 | Weatherford DV Tool @ 6320' | 2.25' |
| | 35 | 7" 29# P110 LT&C Bond Coated Csg | 1352.07' |
| | 128 | 7" 29# P110 LT&C Csg | 4932.14' |
| | 1 | 7" 29# HCP110LT&C pup jt csg | 5.51' |
| | 1 | 7" Landing tool | 34.82' |
| | | Total | 12301.70' |
| | Less above KB | 4.70' | |
| | Csg set @ | 12297.00' | |
| <p>(Note: Received 269 jts of 7" 29# HCP110 LT&C csg (10381.93' T-off) & 52 jts of 7" 29# HCP110 LT&C Bondcoat csg (2005.13' T-off) from WB Supply - Manufactured by TMK IPSCO. Returned 4 jts of 7" 29# HCP110 LT&C csg (157.37' T-off) to Smith Bros for credit.)</p> <p>Held safety meeting. Pumped 30 bbls FW spacer. BJ cmt 1st stage w/350 sks Lite Class C (60:40:0) w/3#/sk Kol Seal, 10#/sk Silica Fume, 0.65% Retarder, 1/8#/sk Flo Seal, 1% SMS, 0.65% Suspension Agent, 0.4% Fluid Loss & 0.2% Defoamer (yd @ 2.52 cuft/sk @ 11.5 PPG). Tail w/400 sks Lite Class H (50:50:0) w/0.2% Retarder, 0.4% Fluid Loss, 0.5% SMS & 0.2% Defoamer (yd @ 1.24 cuft/sk @ 14.2 PPG). Displaced w/455 bbls FW. Plug down @ 1:15 P.M. MDT 07/05/17. Pressured up to 3500# to set ECP. Tested csg to 7000# for 5 min, held OK. Dropped bomb & opened DV tool w/717#. Circ 50 sks cmt off of DV tool. Cmt 2nd stage w/100 sks Lite Class C (60:40:0) w/10#/sk Silica Fume, 1/8#/sk LCM, 1% SMS, 0.2% Dispersant, 0.4% Fluid Loss & 0.2% Defoamer (yd @ 2.48 cuft/sk @ 11.5 PPG). Tail w/100 sks Lite Class H (50:50:0) w/0.2% Retarder, 0.4% Fluid Loss, 0.5% SMS & 0.2% Defoamer (yd @ 1.24 cuft/sk @ 14.2 PPG). Displaced w/235 bbls FW. Plug down @ 4:30 P.M. MDT 07/05/17. Did not circ cmt. Slow rate lift pressure 210# @ 3 1/2 BPM. Closed DV tool & tested w/5000#. (Notified Audrey, operator #2, w/TRRC but did not witness.)</p> | | | |
| JUL 07 2017 | 12310' MD (0'). Operation: TIH w/curve assembly. Formation: Shale. MW 9.7, Vis 29, pH 9, Cl 170k, Ca 1200, Solids <1%, DMC \$0, TMC \$25,463. Bit #8, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 31923, Jets 5-18's, In @ 12310', Made 0' in 0 hrs. PP 1000#. (Test BOPE 14 3/4, PU dir tools & test 1 3/4, Trip 5 3/4, RR 1, Drlg DV tool 3/4 hrs.) Remarks: Day 20. Continue testing BOPE to 5000# high/250# low & Annular to 3500# high/250# low. Tested standpipe & mud lines to the pumps to 5000#. Replaced pipe rams & test to 5000# high/250# low. PU dir tools & test. TIH. Drlg DV tool @ 6320'. Repair iron roughneck. Continue TIH. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 20-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$130,779. CTDC \$2,156,407. CTWC \$2,156,407. AFEC \$8,427,300. (SN/JN) | | |
| JUL 08 2017 | 12550' MD (240'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.6, Vis 105, HTHP 7, PV 24, YP 16, Gels 7/4, FC 2/32", Cl 47k, Adj solids 2%, Oil 78%, ES 405, DMC \$0, TMC \$25,463. Bit #8, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 31923, Jets 5-18's, In @ 12310', Made 240' in 7 1/4 hrs. PP 1000#, RPM 0/138, WOB 20k, PR 33.1. (Drlg 7 1/4 (Rot 0 & Slide 7 1/4), Surv 1 1/2, RS 1, Trip 3 1/2, RR 2 3/4, Cut drlg line 2 1/2, Drlg plug, float & cmt 3, Test csg 1/2, FIT test 1/2, Displace w/OBM 1 1/2 hrs.) Remarks: Day 21. Continue TIH. Repair brakes. RS. Cut drlg line. At 4:30 P.M. MDT 07/07/17, tested casing to 5000# for 30 min, held OK. Drlg plug, float & cmt. Displace w/OBM. FIT test to 14.5# EMW. Drlg from | | |

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| | <p>12310' to 12550' MD. Last survey @ 12485' MD (12155.6' TVD) 84.8° Inc @ 161.6° Azm. <u>Total lateral open hole @ 253' of 6390'</u>. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$55,388. CTDC \$2,211,795. CTWC \$2,211,795. AFEC \$8,427,300. (SN/JN)</p> |
| JUL 09 2017 | <p>13447' MD (897'). Operation: TIH. Formation: 100% Shale. MW 13.8, Vis 67, HTHP 6, PV 25, YP 10, Gels 10/16, FC 1/32", Cl 35k, Adj solids 3.7%, Oil 70%, ES 469, DMC \$0, TMC \$25,463. Bit #8, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 31923, Jets 5-18's, In @ 12310', Out @ 13447', Made 1137' in 18 3/4 hrs. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 0' in 0 hrs. PP 4500#, RPM 55/138, WOB 35k, PR 78.0. (Drlg 11 1/2 (Rot 9 & Slide 2 1/2), Surv 2 1/2, RS 1/2, Trip 8, PU dir tools & test 1 1/4, BOPE & H2S drill 1/4 hrs.) Remarks: Day 22. Drlg from 12550' to 13447' MD w/surveys, RS, BOPE & H2S drill. TOOH. Replace dir tools & test. TIH w/bit #9. Last survey @ 13337' MD (12141.6' TVD) 89.5° Inc @ 162.6° Azm. <u>Total lateral open hole @ 1150' of 6390'</u>. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. BG 225 units. CG 400 units. EDCC \$0. CTCC \$0. EDDC \$77,121. CTDC \$2,288,916. CTWC \$2,288,916. AFEC \$8,427,300. (SN/JN)</p> |
| JUL 10 2017 | <p>14750' MD (1303'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.8, Vis 67, HTHP 6, PV 25, YP 10, Gels 10/16, FC 1/32", Cl 35k, Adj solids 3.7%, Oil 70%, ES 469, DMC \$0, TMC \$25,463. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 1303' in 14 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 93.1. (Drlg 14 (Rot 11 3/4 & Slide 2 1/4), Surv 3 1/4, RS 1/2, Trip 6, BOPE & H2S drill 1/4 hrs.) Remarks: Day 23. Continue TIH. Drlg from 13447' to 14750' MD w/surveys, RS, BOPE & H2S drill. Last survey @ 14566' MD (12128.7' TVD) 92.4° Inc @ 163.0° Azm. <u>Total lateral open hole @ 2453' of 6390'</u>. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. BG 200 units. CG 300 units. TG 1550 Units. EDCC \$0. CTCC \$0. EDDC \$41,618. CTDC \$2,330,534. CTWC \$2,330,534. AFEC \$8,427,300. (SN/JN)</p> |
| JUL 11 2017 | <p>16300' MD (1550'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.8, Vis 67, HTHP 6, PV 30, YP 15, Gels 11/23, FC 2/32", Cl 34k, Adj solids 3.7%, Oil 69%, ES 555, DMC \$7,262, TMC \$32,725. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 2853' in 33 1/4 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 80.5. (Drlg 19 1/4 (Rot 9 3/4 & Slide 9 1/2), Surv 4 1/4, RS 1/2 hrs.) Remarks: Day 24. Drlg from 14750' to 16300' MD w/surveys & RS. Last survey @ 16173' MD (12126.5' TVD) 91.6° Inc @ 166.1° Azm. <u>Total lateral open hole @ 4003' of 6390'</u>. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.43'. No fluid lost or gained. BG 175 units. CG 275 units. EDCC \$0. CTCC \$0. EDDC \$67,325. CTDC \$2,397,859. CTWC \$2,397,859. AFEC \$8,427,300. (SN/JN)</p> |
| JUL 12 2017 | <p>17775' MD (1475'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.8, Vis 68, HTHP 6, PV 29, YP 16, Gels 11/23, FC 2/32", Cl 77k, Adj solids 3.7%, Oil 68%, ES 589, DMC \$7,715, TMC \$40,440. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 4328' in 52 3/4 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 75.6. (Drlg 19 1/2 (Rot 12 & Slide 7 1/2), Surv 4, RS 1/2 hrs.) Remarks: Day 25. Drlg from 16300' to 17775' MD w/surveys & RS. Last survey @ 17686' MD (12117.3' TVD) 89.5° Inc @ 168.6° Azm. <u>Total lateral open hole @ 5478' of 6390'</u>. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA:</p> |

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|-------------|---|----------|--|---|------------------------|-------|---|--------------------------|-------|---|-----------------------------------|--------|---|----------------------------|-------|-----|----------------------------|----------|---|--|--------|--|-------|----------|
| JUL 13 2017 | <p>2027.43'. No fluid lost or gained. BG 175 units. CG 225 units. EDCC \$0. CTCC \$0. EDDC \$72,939. CTDC \$2,470,798. CTWC \$2,470,798. AFEC \$8,427,300. (SN/JN)</p> <p>18690' MD (915'). Operation: TOO H to PU reamer. Formation: 100% Shale. MW 13.6, Vis 60, HTHP 6, PV 35, YP 14, Gels 10/20, FC 2/32", Cl 55k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$10,205, TMC \$50,645. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 5243' in 62 3/4 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 91.5. (Drlg 10 (Rot 5 3/4 & Slide 4 1/4), Surv 2 3/4, RS 1/2, Circ 2, Trip 8 3/4 hrs.) Remarks: Day 26. Drlg from 17775' to 18690' MD w/surveys & RS. TD well @ 7:15 P.M. MDT 07/12/17. Circ sweep. TOO H & work tight hole from 18690' to 13700' MD. Last survey @ 18639' MD (12120.0' TVD) 91.0° Inc @ 161.3° Azm. Projected to the bit @ 18690' MD (12119.1' TVD) 91.0° Inc @ 161.3° Azm. Total lateral open hole @ 6393'. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.43'. No fluid lost or gained. BG 275 units. CG 325 units. EDCC \$0. CTCC \$0. EDDC \$60,817. CTDC \$2,531,615. CTWC \$2,531,615. AFEC \$8,427,300. (SN/JN)</p> | | | | | | | | | | | | | | | | | | | | | | | |
| JUL 14 2017 | <p>18690' MD (0'). Operation: Short trip. Formation: Shale. MW 14.0, Vis 65, HTHP 2, PV 31, YP 17, Gels 10/22, FC 2/32", Cl 38k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$10,205, TMC \$60,850. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Out @ 18690', Made 5243' in 62 3/4 hrs. Bit #10, Size 6 1/8", Make HTC, Type STX35, SN 5251084, Jets 3-20's, In @ 18690'. PP 4500#, RPM 55, WOB 10k. (Trip 15 1/2, RS 1/2, Circ 2 1/2, LD dir tools 1, Wash/ream 4 1/2 hrs.) Remarks: Day 27. TOO H. LD dir tools. RS. PU bit & reamer. TIH. Wash/ream from 15755' to 16132' MD, from 17456' to 17551' MD & from 17999' to 18690' MD. Circ sweep & raise MW to 14.0 PPG. Short trip. BHA: Bit, Bit sub, 1-4" DP, Reamer. Total BHA: 40.65'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$59,197. CTDC \$2,590,812. CTWC \$2,590,812. AFEC \$8,427,300. (PN/JRH/LJ)</p> | | | | | | | | | | | | | | | | | | | | | | | |
| JUL 15 2017 | <p>18690' MD (0'). Operation: Running 4 1/2" liner. Formation: Shale. MW 14.0, Vis 65, HTHP 2, PV 31, YP 17, Gels 10/22, FC 2/32", Cl 38k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$8,118, TMC \$68,968. Bit #10, Size 6 1/8", Make HTC, Type STX35, SN 5251084, Jets 3-20's, In @ 18690', Out @ 18690'. PP 4500#, RPM 55, WOB 10k. (Trip 12, RS 1/2, Circ 2 1/2, Cut drlg line 2, Run liner 7 hrs.) Remarks: Day 28. Short trip to 12297' MD w/no drag. TIH to 18690' MD w/no drag or fill. Circ sweep. TOO H. Held safety meeting. RU Bull Rogers & run 4 1/2" liner w/torque turn. BHA: Bit, Bit sub, 1-4" DP, Reamer. Total BHA: 40.65'. No fluid lost or gained. EDCC \$5,781. CTCC \$5,781. EDDC \$37,519. CTDC \$2,628,331. CTWC \$2,634,112. AFEC \$8,427,300. (PN/JRH/LJ)</p> | | | | | | | | | | | | | | | | | | | | | | | |
| JUL 16 2017 | <p>18690' MD (0'). Operation: LD 4" DP. Formation: Shale. MW 14.0, Vis 65, HTHP 2, PV 31, YP 17, Gels 10/22, FC 2/32", Cl 38k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$105, TMC \$69,073. (Run liner 9 1/4, SD for weather 3/4, RS 1/2, Circ 2 1/2, Cmt 6 1/2, LD DP 4 1/2 hrs.) Remarks: Day 29. Finish running 4 1/2" liner. Circ. RS. Cmt liner w/BJ Services. LD DP. No fluid lost or gained. EDCC \$173,564. CTCC \$179,345. EDDC \$13,921. CTDC \$2,642,252. CTWC \$2,821,597. AFEC \$8,427,300. (PN/JRH/LJ)</p> <table><tr><td>1</td><td>Weatherford Float Shoe</td><td>1.51'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.34'</td></tr><tr><td>1</td><td>4 1/2" 13.5# P110 LT&C Csg Pup Jt</td><td>10.03'</td></tr><tr><td>1</td><td>Weatherford Landing Collar</td><td>1.89'</td></tr><tr><td>166</td><td>4 1/2" 13.5# P110 LT&C Csg</td><td>7048.75'</td></tr><tr><td>1</td><td>Weatherford Liner Hanger Assy set @ 11576'</td><td>27.25'</td></tr><tr><td></td><td>Total</td><td>7090.77'</td></tr></table> | | | 1 | Weatherford Float Shoe | 1.51' | 1 | Weatherford Float Collar | 1.34' | 1 | 4 1/2" 13.5# P110 LT&C Csg Pup Jt | 10.03' | 1 | Weatherford Landing Collar | 1.89' | 166 | 4 1/2" 13.5# P110 LT&C Csg | 7048.75' | 1 | Weatherford Liner Hanger Assy set @ 11576' | 27.25' | | Total | 7090.77' |
| 1 | Weatherford Float Shoe | 1.51' | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Weatherford Float Collar | 1.34' | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4 1/2" 13.5# P110 LT&C Csg Pup Jt | 10.03' | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Weatherford Landing Collar | 1.89' | | | | | | | | | | | | | | | | | | | | | | |
| 166 | 4 1/2" 13.5# P110 LT&C Csg | 7048.75' | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Weatherford Liner Hanger Assy set @ 11576' | 27.25' | | | | | | | | | | | | | | | | | | | | | | |
| | Total | 7090.77' | | | | | | | | | | | | | | | | | | | | | | |

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

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TwNShp

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12

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| | <div>Top of liner @ (MD)11559.23'</div> <div>End of liner set @ (MD)18650.00'</div> |
| JUL 16 – CONT | <p>(Note: Received 176 jts of 4 ½" 13.5# P110 LT&C csg (7472.30' T-off) & 1 pup jt (10.03' T-off) from WB Supply - Manufactured by IPSCO. Returned 12 jts of 4 ½" 13.5# P110 LT&C csg (423.55' T-off) to WB Supply for credit.)</p> <p>Held safety meeting. Drop 1 ½" ball & set liner hanger w/3200#. Pushed w/100k# to test liner hanger. Pumped 30 bbls Ultra Flush spacer. BJ cmt w/325 sks Lite Class C (60:40:0) w/10 #/sk Silica Fume, 0.8% Retarder, 0.65% Suspension agent, 4% Enhancer, 0.9% SMS, 5% Gyp-seal & 1.2% Fluid loss latex (yd @ 2.98 cuft/sk @ 11.2 PPG). Released dart. Displaced w/231 bbls BW. Plug down @ 10:45 P.M. 07/15/17 MDT. Bump plug w/4200#. Set packer w/100k#. Released from liner. Displace 7" csg w/290 bbls BW. Circ 35 sks of cmt off of liner top to the pit. Tested liner top to 2500# for 10 min, held OK.</p> |
| JUL 17 2017 | <p>18690' MD (0'). Operation: NU tbg spool. DMC \$105, TMC \$69,178. (LDDP 15 ¼, RS ½, Weather shut down ¼, RR ½, Pull wear bushing ½, ND BOPE & install tbg spool 7 hrs.)</p> <p>Remarks: Day 30. Continue LD 4" DP. RS. Shut down due to lightning. Repair ST-80. Finish LDDP. Pull wear bushing. Held safety meeting w/Man Welding. ND BOPE & install Cameron 7/16" 10k# tbg spool w/capping flange. EDCC \$45,597. CTCC \$224,942. EDDC \$11,537. CTDC \$2,653,789. CTWC \$2,878,731. AFEC \$8,427,300. (PN/JRH/JN)</p> |
| JUL 18 2017 | <p>18690' MD (0'). Operation: Rig released to move. TMC \$69,178. (RD 24 hrs.)</p> <p>Remarks: Day 31. Tested tbg spool pack-off to 5000#. Rig released to move @ 6:00 A.M. 07/18/17. Start MO Patterson/UTI #220 w/Lightning Oilfield Services to University B21 8 #W101CN this A.M. EDCC \$34,588. CTCC \$259,530. EDDC \$10,570. CTDC \$2,664,359. CTWC \$2,923,889. AFEC \$8,427,300. (JRH/JN)</p> |
| JUL 19 2017 | <p>MO Patterson/UTI #220 w/Lightning Oilfield Services. EDCC \$0. CTCC \$259,530. EDDC \$0. CTDC \$2,664,359. CTWC \$2,923,889. AFEC \$8,427,300. (JRH/JN)</p> |
| JUL 20 2017 | <p>Finish MO Patterson/UTI #220 w/Lightning Oilfield Services. Back drag location & set anchors. EDCC \$4,500. CTCC \$264,030. EDDC \$0. CTDC \$2,664,359. CTWC \$2,928,389. AFEC \$8,427,300. (JRH/JN/DM)</p> |
| JUL 21 2017 | <p>WO toe prep. Start filling frac pond. EDCC \$0. CTCC \$264,030. EDDC \$0. CTDC \$2,664,359. CTWC \$2,928,389. AFEC \$8,427,300.</p> |
| JUL 22 2017 | <p>WO toe prep. Filling frac pond. EDCC \$0. CTCC \$264,030. EDDC \$0. CTDC \$2,664,359. CTWC \$2,928,389. AFEC \$8,427,300.</p> |
| JUL 23 2017 | <p>SICP 0#. MI Guardian. NU (MOC O) 10k frac valve. Tested frac valve for 15 mins w/8000#, held OK. NU 7 1/16" 10k capping flange. RD Guardian. EDCC \$8,473. CTCC \$272,503. EDDC \$0. CTDC \$2,664,359. CTWC \$2,936,862. AFEC \$8,427,300. (RB)</p> |
| JUL 24 2017 | <p>SICP 0#. RU Renegade WL. RIH w/CBL, CCL, GR & CNL. Logged from 11660' to surface (found TOC @ 6015'). SWI. RD Renegade WL. EDCC \$10,421. CTCC \$282,924. EDDC \$0. CTDC \$2,664,359. CTWC \$2,947,283. AFEC \$8,427,300. (RB)</p> |
| JUL 25 2017 | <p>SICP 0#. MIRU Viking 2" CT & TTS tools. Tested csg to 8000# for 30 mins, held OK. RIH w/3 ¾" JZ bit, motor, agitator, hydraulic disconnect, hydro shock, jars, dual flapper, slip on coil</p> |

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| JUL 26 2017 | connector & coil tbg to 18615' & tagged LC. Circulate sweep & POOH. LD tools. RIH w/TCP guns @ report time. EDCC \$65,156. CTCC \$348,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,009,439. AFEC \$8,427,300. (RJH/TB/RB) SICP 0#. RIH w/TCP guns. Perforated Wolfcamp @ 18632' (1' 3 holes), 18628' (1' 3 holes), 18624' (1' 3 holes), 18589' (1' 3 holes), 18584' (1' 3 holes), 18578' (1' 3 holes), 18567' (1' 3 holes), 18556' (1' 3 holes), 18540' (1' 3 holes), 18529' (1' 3 holes), 18518' (1' 3 holes), 18506' (1' 3 holes). Total of 12', 36 holes. Guns loaded @ 0.41" EHD, 18 GC, 36" pen & 120° phasing. SD for rig repair. EDCC \$20,000. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RJH/TB/RB) |
| JUL 27 2017 | SICP 30#. SD for rig repair. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RJH/TB/RB/RT-CT) |
| JUL 28 2017 | SICP 30#. SD for rig repair. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RJH/TB/RB/RT-CT) |
| JUL 29 2017 | SICP 30#. SDFWE for rig repair. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RJH/TB/RB/RT-CT) |
| AUG 01 2017 | WO rig repair. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. |
| AUG 02 2017 | SICP 0#. MIRU 2" Viking CT & JWS pump truck. Test backside to 200#, held OK. Weld CT back together @ surface. POOH @ report time. EDCC \$2,500. CTCC \$370,580. EDDC \$0. CTDC \$2,664,359. CTWC \$3,031,939. AFEC \$8,427,300. (MGW/RB-C) |
| AUG 03 2017 | SICP 0#. Finish POOH. RDMO Viking CT & TTS tools. EDDC \$0. CTCC \$370,580. EDDC \$0. CTDC \$2,664,359. CTWC \$3,031,939. AFEC \$8,427,300. (MGW/RB-C) |
| AUG 04 2017 | Filling frac pond. EDDC \$0. CTCC \$370,580. EDDC \$0. CTDC \$2,664,359. CTWC \$3,031,939. AFEC \$8,427,300. (MGW/RB-C) |
| AUG 05 2017 | SICP 0#. Frac stage 1 @ report time (38 stages). EDCC \$0. CTCC \$368,080. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RS/KM/RP-C/KB-C) |
| AUG 06 2017 | SICP 4785#. Frac stages 1 - 3 (38 stages). WL stage 4 @ report time. EDCC \$0. CTCC \$368,080. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RS/RP-C/KB-C) |
| AUG 07 2017 | SICP 4860#. Frac stages 4 - 6 (38 stages). WL stage 7 @ report time. EDCC \$0. CTCC \$368,080. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (RS/RB/RP-C/KB-C) |
| AUG 08 2017 | SICP 4680#. Frac stages 7 - 9 (38 stages). WL stage 10 @ report time. EDCC \$0. CTCC \$368,080. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (KM/RS/RB/RP-C/KB-C) |
| AUG 09 2017 | SICP 4870#. Frac stages 10 - 12 (38 stages). Frac stage 13 @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (KM/RS/RB/RP-C/KB-C) |
| AUG 10 2017 | SICP 5235#. Frac stages 13 - 16 (38 stages). SD due to Guardian @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. |

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|-------------|---|--------|-------------|------|-----|-----|------|--------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|------------------|------|----|------|
| | (KM/MW/JH/RP-C/KB-C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 11 2017 | SICP 5030#. Frac stages 17 - 18 (38 stages). Frac stage 19 @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (KM/MW/JH/RP-C/KB-C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 12 2017 | SICP 5205#. Frac stages 19 - 22 (38 stages). Switching to backup blender @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (KM/MW/JH/RP-C/KB-C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 13 2017 | SICP 5130#. Frac stages 23 - 26 (38 stages). WL stage 27 @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (MW/JH/RP-C/KB-C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 14 2017 | SICP 5290#. Frac stages 27 - 30 (38 stages). Waiting on sand for stage 31 @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (MW/JH/RP-C/KB-C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 15 2017 | SICP 5125#. Frac stages 31 - 33 (38 stages). Frac stage 34 @ report time. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (MW/JH/RP-C/KB-C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 16 2017 | SICP 5035#. Frac stages 34 - 37 (38 stages). WO sand for stage 38. EDCC \$0. CTCC \$368,080. EDDC \$0. CTDC \$2,664,359. CTWC \$3,029,439. AFEC \$8,427,300. (MW/JH/KM/RP-C/KB-C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 17 2017 | SICP 0#. MIRU Halliburton, Guardian & Reliance WL. Frac Horizontal Wolfcamp w/15287759 gal Slickwater, carrying 9620700# 100 Mesh Sand & 5705700# 40/70 White Sand as follows (planned). Frac stage #1 as follows: <div><div>Stage #1 @ 18632', 18628', 18624', 18589', 18584', 18578', 18567', 18556', 18540', 18529', 18518', 18506'</div><table><tr><th>(Gals)</th><th>Stage Fluid</th><th>PPG</th><th>AIR</th><th>SCP</th></tr><tr><td>1000</td><td>10% HCl Acid</td><td>0.00</td><td>22</td><td>8450</td></tr><tr><td>23400</td><td>Slickwater</td><td>0.00</td><td>28</td><td>8435</td></tr><tr><td>23400</td><td>Slickwater</td><td>0.00</td><td>31</td><td>8885</td></tr><tr><td>26000</td><td>Slickwater</td><td>0.00</td><td>28</td><td>8665</td></tr><tr><td>32500</td><td>Slickwater</td><td>0.00</td><td>29</td><td>8700</td></tr><tr><td>41600</td><td>Slickwater</td><td>0.00</td><td>29</td><td>8740</td></tr><tr><td>35100</td><td>Slickwater</td><td>0.00</td><td>29</td><td>8705</td></tr><tr><td>39000</td><td>Slickwater</td><td>0.00</td><td>31</td><td>8765</td></tr><tr><td>16900</td><td>Slickwater</td><td>0.00</td><td>31</td><td>8740</td></tr><tr><td>35100</td><td>Slickwater</td><td>0.00</td><td>35</td><td>8805</td></tr><tr><td>35100</td><td>Slickwater w/100 Mesh</td><td>0.25</td><td>44</td><td>8575</td></tr><tr><td>36400</td><td>Slickwater w/100 Mesh</td><td>0.50</td><td>50</td><td>8530</td></tr><tr><td>22100</td><td>Slickwater w/100 Mesh</td><td>1.00</td><td>50</td><td>8735</td></tr><tr><td>37591</td><td>Slickwater Flush</td><td>0.00</td><td>50</td><td>8530</td></tr></table></div> | (Gals) | Stage Fluid | PPG | AIR | SCP | 1000 | 10% HCl Acid | 0.00 | 22 | 8450 | 23400 | Slickwater | 0.00 | 28 | 8435 | 23400 | Slickwater | 0.00 | 31 | 8885 | 26000 | Slickwater | 0.00 | 28 | 8665 | 32500 | Slickwater | 0.00 | 29 | 8700 | 41600 | Slickwater | 0.00 | 29 | 8740 | 35100 | Slickwater | 0.00 | 29 | 8705 | 39000 | Slickwater | 0.00 | 31 | 8765 | 16900 | Slickwater | 0.00 | 31 | 8740 | 35100 | Slickwater | 0.00 | 35 | 8805 | 35100 | Slickwater w/100 Mesh | 0.25 | 44 | 8575 | 36400 | Slickwater w/100 Mesh | 0.50 | 50 | 8530 | 22100 | Slickwater w/100 Mesh | 1.00 | 50 | 8735 | 37591 | Slickwater Flush | 0.00 | 50 | 8530 |
| (Gals) | Stage Fluid | PPG | AIR | SCP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 10% HCl Acid | 0.00 | 22 | 8450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23400 | Slickwater | 0.00 | 28 | 8435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23400 | Slickwater | 0.00 | 31 | 8885 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26000 | Slickwater | 0.00 | 28 | 8665 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32500 | Slickwater | 0.00 | 29 | 8700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41600 | Slickwater | 0.00 | 29 | 8740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35100 | Slickwater | 0.00 | 29 | 8705 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39000 | Slickwater | 0.00 | 31 | 8765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16900 | Slickwater | 0.00 | 31 | 8740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35100 | Slickwater | 0.00 | 35 | 8805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35100 | Slickwater w/100 Mesh | 0.25 | 44 | 8575 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36400 | Slickwater w/100 Mesh | 0.50 | 50 | 8530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22100 | Slickwater w/100 Mesh | 1.00 | 50 | 8735 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37591 | Slickwater Flush | 0.00 | 50 | 8530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ISDP 5700#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

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Pumped guns down w/10164 gals FW @ 8 BPM & 6285#. Set plug @ 18496'. Fired guns on the fly. **Perforated @ 18486' (0.67', 3 holes), 18473' (0.67', 3 holes), 18460' (0.67', 3 holes), 18447' (0.67', 3 holes), 18434' (0.67', 3 holes), 18421' (0.67', 3 holes), 18408' (0.67', 3 holes), 18395' (0.67', 3 holes), 18382' (0.67', 3 holes), 18369' (0.67', 3 holes), 18356' (0.67', 3 holes) & 18343' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #2 as follows:

Stage #2 @ 18486', 18473', 18460', 18447', 18434', 18421', 18408', 18395', 18382', 18369', 18356', 18343'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1500 | 10% HCl Acid | 0.00 | 13 | 8785 |
| 23400 | Slickwater | 0.00 | 31 | 8850 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 51 | 8700 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 51 | 8695 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 57 | 8695 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 61 | 8720 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 63 | 8770 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 62 | 8780 |
| 16900 | Slickwater w/40/70 White | 0.25 | 62 | 8700 |
| 35100 | Slickwater w/40/70 White | 0.50 | 61 | 8785 |
| 35100 | Slickwater w/40/70 White | 1.00 | 62 | 8780 |
| 36400 | Slickwater w/40/70 White | 1.50 | 64 | 8800 |
| 22100 | Slickwater w/40/70 White | 1.75 | 65 | 8875 |
| 37499 | Slickwater Flush | 0.00 | 62 | 8745 |

ISDP 5735#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/10080 gals FW @ 8 BPM & 5930#. Set plug @ 18333'. Fired guns on the fly. **Perforated @ 18323' (0.67', 3 holes), 18310' (0.67', 3 holes), 18297' (0.67', 3 holes), 18284' (0.67', 3 holes), 18271' (0.67', 3 holes), 18258' (0.67', 3 holes), 18245' (0.67', 3 holes), 18232' (0.67', 3 holes), 18219' (0.67', 3 holes), 18206' (0.67', 3 holes), 18193' (0.67', 3 holes) & 18180' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #3 as follows:

Stage #3 @ 18323', 18310', 18297', 18284', 18271', 18258', 18245', 18232', 18219', 18206', 18193', 18180'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 23 | 8710 |
| 23400 | Slickwater | 0.00 | 38 | 8325 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 41 | 8355 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 54 | 8730 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 58 | 8790 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 58 | 8845 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 58 | 8765 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 60 | 8790 |
| 16900 | Slickwater w/40/70 White | 0.25 | 59 | 8655 |
| 35100 | Slickwater w/40/70 White | 0.50 | 62 | 8730 |
| 35100 | Slickwater w/40/70 White | 1.00 | 63 | 8770 |
| 36400 | Slickwater w/40/70 White | 1.50 | 65 | 8770 |
| 22100 | Slickwater w/40/70 White | 1.75 | 65 | 8750 |

MEWBOURNE OIL COMPANY
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Well No

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| AUG 17 – CONT | 37397 | Slickwater Flush | 0.00 | 64 | 8685 |
| | ISDP 5845#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/9450 gals FW @ 8 BPM & 5845#. Set plug @ 18170'. Fired guns on the fly. Perforated @ 18160' (0.67', 3 holes), 18147' (0.67', 3 holes), 18134' (0.67', 3 holes), 18121' (0.67', 3 holes), 18108' (0.67', 3 holes), 18095' (0.67', 3 holes), 18082' (0.67', 3 holes), 18069' (0.67', 3 holes), 18056' (0.67', 3 holes), 18041' (0.67', 3 holes), 18030' (0.67', 3 holes) & 18017' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #4 as follows: | | | | |
| | Stage #4 @ 18160', 18147', 18134', 18121', 18108', 18095', 18082', 18069', 18056', 18041', 18030', 18017' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 17 | 8625 |
| | 23400 | Slickwater | 0.00 | 40 | 8485 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 44 | 8600 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 44 | 8560 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 47 | 8535 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 50 | 8555 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 50 | 8615 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 48 | 8725 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 50 | 8520 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 51 | 8440 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 52 | 8455 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 54 | 8435 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 54 | 8870 |
| | 37295 | Slickwater Flush | 0.00 | 47 | 8175 |
| | ISDP 5950#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/9744 gals FW @ 8 BPM & 6070#. Set plug @ 18007'. Fired guns on the fly. Perforated @ 17997' (0.67', 3 holes), 17983' (0.67', 3 holes), 17969' (0.67', 3 holes), 17955' (0.67', 3 holes), 17941' (0.67', 3 holes), 17927' (0.67', 3 holes), 17913' (0.67', 3 holes), 17899' (0.67', 3 holes), 17885' (0.67', 3 holes), 17871' (0.67', 3 holes), 17857' (0.67', 3 holes) & 17843' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #5 as follows: | | | | |
| | Stage #5 @ 17997', 17983', 17969', 17955', 17941', 17927', 17913', 17899', 17885', 17871', 17857', 17843' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1500 | 10% HCl Acid | 0.00 | 14 | 8820 |
| | 23400 | Slickwater | 0.00 | 34 | 8460 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 47 | 8505 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 50 | 8535 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 54 | 8570 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 57 | 8730 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 58 | 8705 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 50 | 8700 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 56 | 8700 |

MEWBOURNE OIL COMPANY
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| AUG 17 – CONT | 35100 | Slickwater w/40/70 White | 0.50 | 59 | 8735 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 60 | 8695 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 62 | 8725 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 54 | 8725 |
| | 37193 | Slickwater Flush | 0.00 | 58 | 8665 |
| | ISDP 5965#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/10500 gals FW @ 8 BPM & 6110#. Set plug @ 17836'. Fired guns on the fly. Perforated @ 17823' (0.67', 3 holes), 17810' (0.67', 3 holes), 17797' (0.67', 3 holes), 17784' (0.67', 3 holes), 17771' (0.67', 3 holes), 17758' (0.67', 3 holes), 17745' (0.67', 3 holes), 17732' (0.67', 3 holes), 17719' (0.67', 3 holes), 17702' (0.67', 3 holes), 17693' (0.67', 3 holes) & 17680' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #6 as follows: | | | | |
| <u>Stage #6 @ 17823', 17810', 17797', 17784', 17771', 17758', 17745', 17732', 17719', 17702', 17693', 17680'</u> | | | | | |
| | <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
| | 1000 | 10% HCl Acid | 0.00 | 34 | 8790 |
| | 23400 | Slickwater | 0.00 | 36 | 8615 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 48 | 8555 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 55 | 8700 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 57 | 8735 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 59 | 8730 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 60 | 8735 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 61 | 8695 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 55 | 8500 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 60 | 8760 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 61 | 8670 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 62 | 8720 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 63 | 8710 |
| | 37083 | Slickwater Flush | 0.00 | 58 | 8610 |
| ISDP 5855#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/10458 gals FW @ 8 BPM & 6320#. Set plug @ 17672'. Fired guns on the fly. Perforated @ 17660' (0.67', 3 holes), 17646' (0.67', 3 holes), 17632' (0.67', 3 holes), 17618' (0.67', 3 holes), 17604' (0.67', 3 holes), 17590' (0.67', 3 holes), 17576' (0.67', 3 holes), 17562' (0.67', 3 holes), 17548' (0.67', 3 holes), 17534' (0.67', 3 holes), 17520' (0.67', 3 holes) & 17506' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #7 as follows: | | | | | |
| <u>Stage #7 @ 17660', 17646', 17632', 17618', 17604', 17590', 17576', 17562', 17548', 17534', 17520', 17506'</u> | | | | | |
| | <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
| | 1000 | 10% HCl Acid | 0.00 | 20 | 8500 |
| | 23400 | Slickwater | 0.00 | 43 | 8480 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 52 | 8625 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 54 | 8500 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 55 | 8490 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 57 | 8460 |

MEWBOURNE OIL COMPANY
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| AUG 17 – CONT | 35100 | Slickwater w/100 Mesh | 1.75 | 58 | 8460 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 58 | 8740 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 59 | 8500 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 60 | 8425 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 62 | 8470 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 63 | 8400 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 59 | 8750 |
| | 36981 | Slickwater Flush | 0.00 | 59 | 8550 |
| | ISDP 5975#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/8316 gals FW @ 8 BPM & 6155#. Set plug @ 17499'. Fired guns on the fly. Perforated @ 17486' (0.67', 3 holes), 17473' (0.67', 3 holes), 17460' (0.67', 3 holes), 17447' (0.67', 3 holes), 17434' (0.67', 3 holes), 17421' (0.67', 3 holes), 17407' (0.67', 3 holes), 17395' (0.67', 3 holes), 17382' (0.67', 3 holes), 17369' (0.67', 3 holes), 17356' (0.67', 3 holes) & 13343' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #8 as follows: | | | | |
| | Stage #8 @ 17486', 17473', 17460', 17447', 17434', 17421', 17407', 17395', 17382', 17369', 17356', 13343' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 17 | 8500 |
| | 23400 | Slickwater | 0.00 | 40 | 8765 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 49 | 8515 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 55 | 8495 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 56 | 8475 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 60 | 8500 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 62 | 8480 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 60 | 8840 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 63 | 8675 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 67 | 8695 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 68 | 8710 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 69 | 8700 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 61 | 8740 |
| | 36872 | Slickwater Flush | 0.00 | 65 | 8615 |
| | ISDP 5925#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/8358 gals FW @ 8 BPM & 6190#. Set plug @ 17333'. Fired guns on the fly. Perforated @ 17320' (0.67', 3 holes), 17310' (0.67', 3 holes), 17297' (0.67', 3 holes), 17286' (0.67', 3 holes), 17271' (0.67', 3 holes), 17258' (0.67', 3 holes), 17245' (0.67', 3 holes), 17232' (0.67', 3 holes), 17219' (0.67', 3 holes), 17206' (0.67', 3 holes), 17192' (0.67', 3 holes) & 17180' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #9 as follows: | | | | |
| | Stage #9 @ 17320', 17310', 17297', 17286', 17271', 17258', 17245', 17232', 17219', 17206', 17192', 17180' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 27 | 8725 |
| | 23400 | Slickwater | 0.00 | 39 | 8530 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 48 | 8645 |

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| 26000 | Slickwater w/100 Mesh | 0.50 | 53 | 8700 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 57 | 8740 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 61 | 8735 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 61 | 8700 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 53 | 8750 |
| 16900 | Slickwater w/40/70 White | 0.25 | 52 | 8490 |
| 35100 | Slickwater w/40/70 White | 0.50 | 56 | 8410 |
| 35100 | Slickwater w/40/70 White | 1.00 | 58 | 8400 |
| 36400 | Slickwater w/40/70 White | 1.50 | 59 | 8425 |
| 22100 | Slickwater w/40/70 White | 1.75 | 60 | 8440 |
| 36770 | Slickwater Flush | 0.00 | 58 | 8560 |

ISDP 6025#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/7644 gals FW @ 8 BPM & 5985#. Set plug @ 17170'. Fired guns on the fly. **Perforated @ 17160' (0.67', 3 holes), 17147' (0.67', 3 holes), 17134' (0.67', 3 holes), 17121' (0.67', 3 holes), 17108' (0.67', 3 holes), 17095' (0.67', 3 holes), 17082' (0.67', 3 holes), 17065' (0.67', 3 holes), 17056' (0.67', 3 holes), 17043' (0.67', 3 holes), 17030' (0.67', 3 holes) & 17017' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #10 as follows:

Stage #10 @ 17160', 17147', 17134', 17121', 17108', 17095', 17082', 17065', 17056', 17043', 17030', 17017'

| | | | | |
|---------------|--------------------------|------------|------------|------------|
| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
| 1000 | 10% HCl Acid | 0.00 | 22 | 8135 |
| 23400 | Slickwater | 0.00 | 42 | 8580 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 52 | 8485 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 56 | 8510 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 57 | 8465 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 57 | 8445 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 60 | 8475 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 58 | 8800 |
| 16900 | Slickwater w/40/70 White | 0.25 | 60 | 8570 |
| 35100 | Slickwater w/40/70 White | 0.50 | 60 | 8425 |
| 35100 | Slickwater w/40/70 White | 1.00 | 62 | 8440 |
| 36400 | Slickwater w/40/70 White | 1.50 | 63 | 8455 |
| 22100 | Slickwater w/40/70 White | 1.75 | 60 | 8870 |
| 36668 | Slickwater Flush | 0.00 | 60 | 8550 |

ISDP 5975#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/7602 gals FW @ 8 BPM & 6056#. Set plug @ 17007'. Fired guns on the fly. **Perforated @ 16997' (0.67', 3 holes), 16980' (0.67', 3 holes), 16971' (0.67', 3 holes), 16958' (0.67', 3 holes), 16946' (0.67', 3 holes), 16932' (0.67', 3 holes), 16919' (0.67', 3 holes), 16906' (0.67', 3 holes), 16893' (0.67', 3 holes), 16880' (0.67', 3 holes), 16867' (0.67', 3 holes) & 16852' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #11 as follows:

Stage #11 @ 16997', 16980', 16971', 16958', 16946', 16932', 16919', 16906', 16893', 16880', 16867', 16852'

| | | | | |
|---------------|--------------------|------------|------------|------------|
| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------|------------|------------|------------|

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

ST

TX

Section

TwNShp

Rng

Section

12

Blk

20

Survey

Filename

Page

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API # 42-495-33830

| DATE | DAILY REPORTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--------------------------|------------|------------|------|---------------|--------------------|------------|------------|------------|------|--------------|------|----|------|-------|------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|-----------------------|------|----|------|-------|--------------------------|------|----|------|-------|--------------------------|------|----|------|-------|--------------------------|------|----|------|-------|--------------------------|------|----|------|-------|--------------------------|------|----|------|-------|------------------|------|----|
| AUG 17 – CONT | 1000 | 10% HCl Acid | 0.00 | 20 | 8535 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23400 | Slickwater | 0.00 | 36 | 8725 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 51 | 8495 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 53 | 8480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 57 | 8525 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 58 | 8515 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 59 | 8490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 59 | 8525 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16900 | Slickwater w/40/70 White | 0.25 | 59 | 8780 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35100 | Slickwater w/40/70 White | 0.50 | 60 | 8490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 35100 | Slickwater w/40/70 White | 1.00 | 61 | 8580 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36400 | Slickwater w/40/70 White | 1.50 | 62 | 8560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22100 | Slickwater w/40/70 White | 1.75 | 60 | 8850 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 36565 | Slickwater Flush | 0.00 | 55 | 8340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>ISDP 5984#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/7728 gals FW @ 8 BPM & 5876#. Set plug @ 16846'. Fired guns on the fly. Perforated @ 16834' (0.67', 3 holes), 16821' (0.67', 3 holes), 16808' (0.67', 3 holes), 16795' (0.67', 3 holes), 16782' (0.67', 3 holes), 16767' (0.67', 3 holes), 16756' (0.67', 3 holes), 16743' (0.67', 3 holes), 16730' (0.67', 3 holes), 16717' (0.67', 3 holes), 16704' (0.67', 3 holes) & 16691' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #12 as follows:</p> <p><u>Stage #12 @ 16834', 16821', 16808', 16795', 16782', 16767', 16756', 16743', 16730', 16717', 16704', 16691'</u></p> <table><tr><th><u>(Gals)</u></th><th><u>Stage Fluid</u></th><th><u>PPG</u></th><th><u>AIR</u></th><th><u>SCP</u></th></tr><tr><td>1000</td><td>10% HCl Acid</td><td>0.00</td><td>25</td><td>8680</td></tr><tr><td>23400</td><td>Slickwater</td><td>0.00</td><td>42</td><td>8315</td></tr><tr><td>23400</td><td>Slickwater w/100 Mesh</td><td>0.25</td><td>51</td><td>8635</td></tr><tr><td>26000</td><td>Slickwater w/100 Mesh</td><td>0.50</td><td>53</td><td>8670</td></tr><tr><td>32500</td><td>Slickwater w/100 Mesh</td><td>1.00</td><td>58</td><td>8675</td></tr><tr><td>41600</td><td>Slickwater w/100 Mesh</td><td>1.50</td><td>62</td><td>8715</td></tr><tr><td>35100</td><td>Slickwater w/100 Mesh</td><td>1.75</td><td>60</td><td>8555</td></tr><tr><td>39000</td><td>Slickwater w/100 Mesh</td><td>2.00</td><td>60</td><td>8445</td></tr><tr><td>16900</td><td>Slickwater w/40/70 White</td><td>0.25</td><td>59</td><td>8635</td></tr><tr><td>35100</td><td>Slickwater w/40/70 White</td><td>0.50</td><td>60</td><td>8650</td></tr><tr><td>35100</td><td>Slickwater w/40/70 White</td><td>1.00</td><td>60</td><td>8380</td></tr><tr><td>36400</td><td>Slickwater w/40/70 White</td><td>1.50</td><td>60</td><td>8340</td></tr><tr><td>22100</td><td>Slickwater w/40/70 White</td><td>1.75</td><td>60</td><td>8310</td></tr><tr><td>36463</td><td>Slickwater Flush</td><td>0.00</td><td>54</td><td>8625</td></tr></table> <p>ISDP 5950#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6594 gals FW @ 8 BPM & 6000#. Set plug @ 16680'. Fired guns on the fly. Perforated @ 16671' (0.67', 3 holes), 16658' (0.67', 3 holes), 16646' (0.67', 3 holes), 16632' (0.67', 3 holes), 16619' (0.67', 3 holes), 16606' (0.67', 3 holes), 16593' (0.67', 3 holes), 16580' (0.67', 3 holes), 16567' (0.67', 3 holes), 16554' (0.67', 3 holes), 16541' (0.67', 3 holes) & 16528' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #13 as follows:</p> <p><u>Stage #13 @ 16671', 16658', 16646', 16632', 16619', 16606', 16593', 16580', 16567', 16554', 16541', 16528'</u></p> | | | | | <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> | 1000 | 10% HCl Acid | 0.00 | 25 | 8680 | 23400 | Slickwater | 0.00 | 42 | 8315 | 23400 | Slickwater w/100 Mesh | 0.25 | 51 | 8635 | 26000 | Slickwater w/100 Mesh | 0.50 | 53 | 8670 | 32500 | Slickwater w/100 Mesh | 1.00 | 58 | 8675 | 41600 | Slickwater w/100 Mesh | 1.50 | 62 | 8715 | 35100 | Slickwater w/100 Mesh | 1.75 | 60 | 8555 | 39000 | Slickwater w/100 Mesh | 2.00 | 60 | 8445 | 16900 | Slickwater w/40/70 White | 0.25 | 59 | 8635 | 35100 | Slickwater w/40/70 White | 0.50 | 60 | 8650 | 35100 | Slickwater w/40/70 White | 1.00 | 60 | 8380 | 36400 | Slickwater w/40/70 White | 1.50 | 60 | 8340 | 22100 | Slickwater w/40/70 White | 1.75 | 60 | 8310 | 36463 | Slickwater Flush | 0.00 | 54 |
| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 10% HCl Acid | 0.00 | 25 | 8680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23400 | Slickwater | 0.00 | 42 | 8315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23400 | Slickwater w/100 Mesh | 0.25 | 51 | 8635 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26000 | Slickwater w/100 Mesh | 0.50 | 53 | 8670 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32500 | Slickwater w/100 Mesh | 1.00 | 58 | 8675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41600 | Slickwater w/100 Mesh | 1.50 | 62 | 8715 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35100 | Slickwater w/100 Mesh | 1.75 | 60 | 8555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39000 | Slickwater w/100 Mesh | 2.00 | 60 | 8445 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16900 | Slickwater w/40/70 White | 0.25 | 59 | 8635 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35100 | Slickwater w/40/70 White | 0.50 | 60 | 8650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35100 | Slickwater w/40/70 White | 1.00 | 60 | 8380 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36400 | Slickwater w/40/70 White | 1.50 | 60 | 8340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22100 | Slickwater w/40/70 White | 1.75 | 60 | 8310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36463 | Slickwater Flush | 0.00 | 54 | 8625 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

ST

TX

Section

TwShp

Rng

Section

12

Blk

20

Survey

Filename

Page

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API # 42-495-33830

| DATE | DAILY REPORTS | | | | |
|---------------|--|--------------------------|------|------|------|
| AUG 17 – CONT | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 24 | 8680 |
| | 23400 | Slickwater | 0.00 | 41 | 8475 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 43 | 8690 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 50 | 8625 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 51 | 8520 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 56 | 8535 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 58 | 8530 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 60 | 8535 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 57 | 8620 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 58 | 8545 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 59 | 8500 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 60 | 8455 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 61 | 8480 |
| | 36361 | Slickwater Flush | 0.00 | 57 | 8465 |
| | ISDP 6170#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 6720 gals FW @ 8 BPM & 6175#. Set plug @ 16521'. Fired guns on the fly. Perforated @ 16508' (0.67', 3 holes), 16495' (0.67', 3 holes), 16482' (0.67', 3 holes), 16469' (0.67', 3 holes), 16456' (0.67', 3 holes), 16443' (0.67', 3 holes), 16433' (0.67', 3 holes), 16417' (0.67', 3 holes), 16404' (0.67', 3 holes), 16392' (0.67', 3 holes), 16378' (0.67', 3 holes) & 16365' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 ⅛" ball. Frac stage #14 as follows: | | | | |
| | Stage #14 @ 16508', 16495', 16482', 16469', 16456', 16443', 16433', 16417', 16404', 16392', 16378', 16365' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 8350 | 20 |
| | 23400 | Slickwater | 0.00 | 8300 | 38 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 8440 | 40 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 8480 | 53 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 8430 | 59 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 8450 | 60 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 8400 | 60 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 8740 | 60 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 8525 | 60 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 8385 | 60 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 8565 | 63 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 8500 | 64 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 8750 | 62 |
| | 36259 | Slickwater Flush | 0.00 | 8500 | 62 |
| | ISDP 5843#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 5586 gals FW @ 8 BPM & 5935#. Set plug @ 16355'. Fired guns on the fly. Perforated @ 16345' (0.67', 3 holes), 16332' (0.67', 3 holes), 16319' (0.67', 3 holes), 16306' (0.67', 3 holes), 16293' (0.67', 3 holes), 16280' (0.67', 3 holes), 16267' (0.67', 3 holes), 16254' (0.67', 3 holes), 16241' (0.67', 3 holes), 16230' (0.67', 3 holes), 16215' (0.67', 3 holes) & 16202' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 ⅛" ball. Frac stage #15 as follows: | | | | |

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

ST

TX

Section

TwNShp

Rng

Section

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Blk

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API # 42-495-33830

DATE

DAILY REPORTS

AUG 17 – CONT

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 26 | 8445 |
| 23400 | Slickwater | 0.00 | 40 | 8420 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 49 | 8490 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 57 | 8460 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 64 | 8600 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 67 | 8550 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 70 | 8600 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 68 | 8750 |
| 16900 | Slickwater w/40/70 White | 0.25 | 66 | 8600 |
| 35100 | Slickwater w/40/70 White | 0.50 | 70 | 8625 |
| 35100 | Slickwater w/40/70 White | 1.00 | 72 | 8685 |
| 36400 | Slickwater w/40/70 White | 1.50 | 73 | 8660 |
| 22100 | Slickwater w/40/70 White | 1.75 | 72 | 8540 |
| 36157 | Slickwater Flush | 0.00 | 68 | 8475 |

ISDP 5940#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 6216 gals FW @ 8 BPM & 6251#. Set plug @ 16192'. Fired guns on the fly. **Perforated @ 16182' (0.67', 3 holes), 16169' (0.67', 3 holes), 16156' (0.67', 3 holes), 16140' (0.67', 3 holes), 16130' (0.67', 3 holes), 16117' (0.67', 3 holes), 16104' (0.67', 3 holes), 16091' (0.67', 3 holes), 16078' (0.67', 3 holes), 16065' (0.67', 3 holes), 16052' (0.67', 3 holes) & 16039' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #16 as follows:

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 22 | 8560 |
| 23400 | Slickwater | 0.00 | 42 | 8405 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 41 | 8520 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 58 | 8670 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 62 | 8700 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 70 | 8695 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 73 | 8590 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 77 | 8680 |
| 16900 | Slickwater w/40/70 White | 0.25 | 73 | 8505 |
| 35100 | Slickwater w/40/70 White | 0.50 | 76 | 8640 |
| 35100 | Slickwater w/40/70 White | 1.00 | 79 | 8580 |
| 36400 | Slickwater w/40/70 White | 1.50 | 71 | 8180 |
| 22100 | Slickwater w/40/70 White | 1.75 | 71 | 8160 |
| 36054 | Slickwater Flush | 0.00 | 71 | 8475 |

ISDP 5785#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 6185 gals FW @ 8 BPM & 6566#. Set plug @ 16029'. Fired guns on the fly. **Perforated @ 16019' (0.67', 3 holes), 16008' (0.67', 3 holes), 15997' (0.67', 3 holes), 15986' (0.67', 3 holes), 15975' (0.67', 3 holes), 15964' (0.67', 3 holes), 15953' (0.67', 3 holes), 15942' (0.67', 3 holes), 15931' (0.67', 3 holes), 15920' (0.67', 3 holes), 15909' (0.67', 3 holes)**

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& 15898' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #17 as follows:

Stage #17 @ 16019', 16008', 15997', 15986', 15975', 15964', 15953', 15942', 15931', 15920', 15909', 15898'

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 29 | 8400 |
| 23400 | Slickwater | 0.00 | 38 | 8450 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 54 | 8360 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 57 | 8350 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 65 | 8575 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 68 | 8560 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 70 | 8600 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 69 | 8600 |
| 16900 | Slickwater w/40/70 White | 0.25 | 72 | 8500 |
| 35100 | Slickwater w/40/70 White | 0.50 | 74 | 8575 |
| 35100 | Slickwater w/40/70 White | 1.00 | 75 | 8500 |
| 36400 | Slickwater w/40/70 White | 1.50 | 75 | 8300 |
| 22100 | Slickwater w/40/70 White | 1.75 | 75 | 8650 |
| 35952 | Slickwater Flush | 0.00 | 74 | 8500 |

ISDP 5635#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 5586 gals FW @ 8 BPM & 5850#. Set plug @ 15892'. Fired guns on the fly. Perforated @ 15878' (0.67', 3 holes), 15867' (0.67', 3 holes), 15856' (0.67', 3 holes), 15843' (0.67', 3 holes), 15834' (0.67', 3 holes), 15823' (0.67', 3 holes), 15812' (0.67', 3 holes), 15805' (0.67', 3 holes), 15790' (0.67', 3 holes), 15779' (0.67', 3 holes), 15768' (0.67', 3 holes) & 15756' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #18 as follows:

Stage #18 @ 15878', 15867', 15856', 15843', 15834', 15823', 15812', 15805', 15790', 15779', 15768', 15756'

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 29 | 8365 |
| 23400 | Slickwater | 0.00 | 43 | 8200 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 54 | 8435 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 60 | 8535 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 65 | 8580 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 69 | 8550 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 74 | 8540 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 74 | 8550 |
| 16900 | Slickwater w/40/70 White | 0.25 | 69 | 8455 |
| 35100 | Slickwater w/40/70 White | 0.50 | 74 | 8575 |
| 35100 | Slickwater w/40/70 White | 1.00 | 76 | 8525 |
| 36400 | Slickwater w/40/70 White | 1.50 | 78 | 8635 |
| 22100 | Slickwater w/40/70 White | 1.75 | 80 | 8600 |
| 35864 | Slickwater Flush | 0.00 | 70 | 8310 |

ISDP 5760#. RIH w/Halliburton FasDrill frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 5670 gals FW @ 8 BPM & 6075#. Set plug @ 15749'. Fired guns on the fly.

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Perforated @ 15737' (0.67', 3 holes), 15726' (0.67', 3 holes), 15715' (0.67', 3 holes), 15704' (0.67', 3 holes), 15693' (0.67', 3 holes), 15682' (0.67', 3 holes), 15671' (0.67', 3 holes), 15660' (0.67', 3 holes), 15649' (0.67', 3 holes), 15638' (0.67', 3 holes), 15627' (0.67', 3 holes) & 15616' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #19 as follows:

Stage #19 @ 15737', 15726', 15715', 15704', 15693', 15682', 15671', 15660', 15649', 15638', 15627', 15616'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 25 | 8570 |
| 23400 | Slickwater | 0.00 | 44 | 8275 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 51 | 8400 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 58 | 8515 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 62 | 8580 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 65 | 8515 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 66 | 8510 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 66 | 8560 |
| 16900 | Slickwater w/40/70 White | 0.25 | 63 | 8650 |
| 35100 | Slickwater w/40/70 White | 0.50 | 63 | 8530 |
| 35100 | Slickwater w/40/70 White | 1.00 | 65 | 8510 |
| 36400 | Slickwater w/40/70 White | 1.50 | 69 | 8580 |
| 22100 | Slickwater w/40/70 White | 1.75 | 69 | 8480 |
| 35775 | Slickwater Flush | 0.00 | 66 | 8500 |

ISDP 5925#. RIH w/ Halliburton FasDrill frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 6300 gals FW @ 8 BPM & 6290#. Set plug @ 15608'. Fired guns on the fly.

Perforated @ 15596' (0.67', 3 holes), 15581' (0.67', 3 holes), 15566' (0.67', 3 holes), 15551' (0.67', 3 holes), 15536' (0.67', 3 holes), 15521' (0.67', 3 holes), 15506' (0.67', 3 holes), 15491' (0.67', 3 holes), 15476' (0.67', 3 holes), 15457' (0.67', 3 holes), 15446' (0.67', 3 holes) & 15431' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #20 as follows:

Stage #20 @ 15596', 15581', 15566', 15551', 15536', 15521', 15506', 15491', 15476', 15457', 15446', 15431'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 30 | 8150 |
| 23400 | Slickwater | 0.00 | 54 | 8280 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 60 | 8500 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 62 | 8350 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 66 | 8400 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 68 | 8500 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 68 | 8450 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 68 | 8500 |
| 16900 | Slickwater w/40/70 White | 0.25 | 67 | 8475 |
| 35100 | Slickwater w/40/70 White | 0.50 | 69 | 8450 |
| 35100 | Slickwater w/40/70 White | 1.00 | 70 | 8400 |
| 36400 | Slickwater w/40/70 White | 1.50 | 72 | 8500 |
| 22100 | Slickwater w/40/70 White | 1.75 | 72 | 8600 |

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| AUG 17 – CONT | 35687 | Slickwater Flush | 0.00 | 71 | 8550 |
| | ISDP 6000#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/4494 gals FW @ 8 BPM & 6031#. Set plug @ 15422'. Fired guns on the fly. Perforated @ 15411' (0.67', 3 holes), 15396' (0.67', 3 holes), 15381' (0.67', 3 holes), 15366' (0.67', 3 holes), 15351' (0.67', 3 holes), 15336' (0.67', 3 holes), 15321' (0.67', 3 holes), 15306' (0.67', 3 holes), 15291' (0.67', 3 holes), 15276' (0.67', 3 holes), 15261' (0.67', 3 holes) & 15246' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #21 as follows: | | | | |
| | Stage #21 @ 15411', 15396', 15381', 15366', 15351', 15336', 15321', 15306', 15291', 15276', 15261', 15246' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 28 | 8200 |
| | 23400 | Slickwater | 0.00 | 39 | 8600 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 57 | 8520 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 64 | 8440 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 75 | 8530 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 76 | 8560 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 76 | 8465 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 54 | 7400 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 46 | 7000 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 54 | 7400 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 58 | 7350 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 62 | 7300 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 55 | 7550 |
| | 35571 | Slickwater Flush | 0.00 | 55 | 7470 |
| | ISDP 5930#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/4326 gals FW @ 8 BPM & 5830#. Set plug @ 15236'. Fired guns on the fly. Perforated @ 15226' (0.67', 3 holes), 15213' (0.67', 3 holes), 15200' (0.67', 3 holes), 15187' (0.67', 3 holes), 15174' (0.67', 3 holes), 15161' (0.67', 3 holes), 15148' (0.67', 3 holes), 15135' (0.67', 3 holes), 15121' (0.67', 3 holes), 15109' (0.67', 3 holes), 15096' (0.67', 3 holes) & 15083' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #22 as follows: | | | | |
| | Stage #22 @ 15226', 15213', 15200', 15187', 15174', 15161', 15148', 15135', 15121', 15109', 15096', 15083' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 24 | 8200 |
| | 23400 | Slickwater | 0.00 | 40 | 7895 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 57 | 8265 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 64 | 8565 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 70 | 8455 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 75 | 8510 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 75 | 8325 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 75 | 8240 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 74 | 8540 |

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| 35100 | Slickwater w/40/70 White | 0.50 | 74 | 8210 |
| 35100 | Slickwater w/40/70 White | 1.00 | 74 | 8175 |
| 36400 | Slickwater w/40/70 White | 1.50 | 74 | 8045 |
| 22100 | Slickwater w/40/70 White | 1.75 | 74 | 8070 |
| 35455 | Slickwater Flush | 0.00 | 74 | 8210 |

ISDP 6155#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/4242 gals FW @ 8 BPM & 5885#. Set plug @ 15073'. Fired guns on the fly. **Perforated @ 15063' (0.67', 3 holes), 15050' (0.67', 3 holes), 15035' (0.67', 3 holes), 15024' (0.67', 3 holes), 15011' (0.67', 3 holes), 14998' (0.67', 3 holes), 14985' (0.67', 3 holes), 14972' (0.67', 3 holes), 14959' (0.67', 3 holes), 14946' (0.67', 3 holes), 14933' (0.67', 3 holes) & 14920' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #23 as follows:

Stage #23 @ 15063', 15050', 15035', 15024', 15011', 14998', 14985', 14972', 14959', 14946', 14933', 14920'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 31 | 8200 |
| 23400 | Slickwater | 0.00 | 31 | 7400 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 51 | 8000 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 55 | 8230 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 60 | 8350 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 72 | 8450 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 75 | 8450 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 74 | 8750 |
| 16900 | Slickwater w/40/70 White | 0.25 | 73 | 8450 |
| 35100 | Slickwater w/40/70 White | 0.50 | 73 | 8450 |
| 35100 | Slickwater w/40/70 White | 1.00 | 77 | 8580 |
| 36400 | Slickwater w/40/70 White | 1.50 | 80 | 8500 |
| 22100 | Slickwater w/40/70 White | 1.75 | 79 | 8700 |
| 35353 | Slickwater Flush | 0.00 | 79 | 8400 |

ISDP 5947#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3906 gals FW @ 8 BPM & 5966#. Set plug @ 14914'. Fired guns on the fly. **Perforated @ 14900' (0.67', 3 holes), 14887' (0.67', 3 holes), 14874' (0.67', 3 holes), 14861' (0.67', 3 holes), 14848' (0.67', 3 holes), 14835' (0.67', 3 holes), 14822' (0.67', 3 holes), 14809' (0.67', 3 holes), 14796' (0.67', 3 holes), 14785' (0.67', 3 holes), 14770' (0.67', 3 holes) & 14757' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #24 as follows:

Stage #24 @ 14900', 14887', 14874', 14861', 14848', 14835', 14822', 14809', 14796', 14785', 14770', 14757'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|-----------------------|------------|------------|------------|
| 17000 | 10% HCl Acid | 0.00 | 34 | 8420 |
| 23400 | Slickwater | 0.00 | 55 | 8200 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 64 | 8500 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 67 | 8500 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 70 | 8500 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 73 | 8450 |

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| AUG 17 – CONT | 35100 | Slickwater w/100 Mesh | 1.75 | 74 | 8500 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 73 | 8800 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 72 | 8500 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 73 | 8500 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 76 | 8450 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 79 | 8500 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 80 | 8800 |
| | 35251 | Slickwater Flush | 0.00 | 77 | 8700 |
| | ISDP 5957#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/4578 gals FW @ 8 BPM & 6346#. Set plug @ 14749'. Fired guns on the fly. Perforated @ 14737' (0.67', 3 holes), 14726' (0.67', 3 holes), 14715' (0.67', 3 holes), 14704' (0.67', 3 holes), 14693' (0.67', 3 holes), 14682' (0.67', 3 holes), 14671' (0.67', 3 holes), 14660' (0.67', 3 holes), 14649' (0.67', 3 holes), 14638' (0.67', 3 holes), 14627' (0.67', 3 holes) & 14616' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #25 as follows: | | | | |
| | Stage #25 @ 14737', 14726', 14715', 14704', 14693', 14682', 14671', 14660', 14649', 14638', 14627', 14616' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 25 | 8160 |
| | 23400 | Slickwater | 0.00 | 41 | 8210 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 50 | 8670 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 59 | 8495 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 64 | 8520 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 68 | 8480 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 70 | 8490 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 70 | 8480 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 65 | 8565 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 69 | 8530 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 72 | 8490 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 74 | 8525 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 76 | 8520 |
| | 35148 | Slickwater Flush | 0.00 | 74 | 8505 |
| | ISDP 5975#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3612 gals FW @ 8 BPM & 6450#. Set plug @ 14608'. Fired guns on the fly. Perforated @ 14596' (0.67', 3 holes), 14583' (0.67', 3 holes), 14567' (0.67', 3 holes), 14557' (0.67', 3 holes), 14544' (0.67', 3 holes), 14531' (0.67', 3 holes), 14518' (0.67', 3 holes), 14505' (0.67', 3 holes), 14492' (0.67', 3 holes), 14479' (0.67', 3 holes), 14466' (0.67', 3 holes) & 14453' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #26 as follows: | | | | |
| | Stage #26 @ 14596', 14583', 14567', 14557', 14544', 14531', 14518', 14505', 14492', 14479', 14466', 14453' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 25 | 8230 |
| | 23400 | Slickwater | 0.00 | 43 | 8415 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 55 | 8485 |

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| 26000 | Slickwater w/100 Mesh | 0.50 | 56 | 8435 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 64 | 8450 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 71 | 8490 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 73 | 8475 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 77 | 8345 |
| 16900 | Slickwater w/40/70 White | 0.25 | 76 | 8450 |
| 35100 | Slickwater w/40/70 White | 0.50 | 78 | 8445 |
| 35100 | Slickwater w/40/70 White | 1.00 | 80 | 8425 |
| 36400 | Slickwater w/40/70 White | 1.50 | 80 | 8285 |
| 22100 | Slickwater w/40/70 White | 1.75 | 80 | 8340 |
| 35060 | Slickwater Flush | 0.00 | 76 | 8450 |

ISDP 5935#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3276 gals FW @ 8 BPM & 6215#. Set plug @ 14445'. Fired guns on the fly. **Perforated @ 14433' (0.67', 3 holes), 14420' (0.67', 3 holes), 14407' (0.67', 3 holes), 14394' (0.67', 3 holes), 14381' (0.67', 3 holes), 14368' (0.67', 3 holes), 14353' (0.67', 3 holes), 14342' (0.67', 3 holes), 14329' (0.67', 3 holes), 14317' (0.67', 3 holes), 14303' (0.67', 3 holes) & 14290' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #27 as follows:

Stage #27 @ 14433', 14420', 14407', 14394', 14381', 14368', 14353', 14342', 14329', 14317', 14303', 14290'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 30 | 7950 |
| 23400 | Slickwater | 0.00 | 53 | 8200 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 63 | 8500 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 67 | 8500 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 68 | 8500 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 70 | 8400 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 76 | 8650 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 75 | 8860 |
| 16900 | Slickwater w/40/70 White | 0.25 | 75 | 8650 |
| 35100 | Slickwater w/40/70 White | 0.50 | 78 | 8625 |
| 35100 | Slickwater w/40/70 White | 1.00 | 80 | 8700 |
| 36400 | Slickwater w/40/70 White | 1.50 | 80 | 8500 |
| 22100 | Slickwater w/40/70 White | 1.75 | 78 | 8700 |
| 34958 | Slickwater Flush | 0.00 | 78 | 8540 |

ISDP 6000#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2940 gals FW @ 8 BPM & 6005#. Set plug @ 14282'. Fired guns on the fly. **Perforated @ 14267' (0.67', 3 holes), 14257' (0.67', 3 holes), 14244' (0.67', 3 holes), 14231' (0.67', 3 holes), 14218' (0.67', 3 holes), 14205' (0.67', 3 holes), 14192' (0.67', 3 holes), 14179' (0.67', 3 holes), 14166' (0.67', 3 holes), 14153' (0.67', 3 holes), 14140' (0.67', 3 holes) & 14127' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #28 as follows:

Stage #28 @ 14267', 14257', 14244', 14231', 14218', 14205', 14192', 14179', 14166', 14153', 14140', 14127'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
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| AUG 17 – CONT | 1000 | 10% HCl Acid | 0.00 | 36 | 8000 |
| | 23400 | Slickwater | 0.00 | 46 | 8000 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 68 | 8400 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 62 | 8300 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 64 | 8000 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 72 | 8300 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 77 | 8400 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 80 | 8400 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 80 | 8700 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 81 | 8500 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 80 | 8250 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 81 | 8200 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 81 | 8500 |
| | 34855 | Slickwater Flush | 0.00 | 81 | 8400 |
| | ISDP 5781#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/1898 gals FW @ 8 BPM & 5940#. Set plug @ 14117'. Fired guns on the fly. Perforated @ 14107' (0.67', 3 holes), 14092' (0.67', 3 holes), 14077' (0.67', 3 holes), 14062' (0.67', 3 holes), 14047' (0.67', 3 holes), 14032' (0.67', 3 holes), 14019' (0.67', 3 holes), 14002' (0.67', 3 holes), 13987' (0.67', 3 holes), 13972' (0.67', 3 holes), 13957' (0.67', 3 holes) & 13942' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #29 as follows: | | | | |
| | Stage #29 @ 14107', 14092', 14077', 14062', 14047', 14032', 14019', 14002', 13987', 13972', 13957', 13942' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 38 | 7700 |
| | 23400 | Slickwater | 0.00 | 45 | 7200 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 63 | 8400 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 72 | 8400 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 80 | 8500 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 80 | 8200 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 85 | 8050 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 85 | 8700 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 85 | 8100 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 85 | 7970 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 85 | 7770 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 85 | 7640 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 85 | 7525 |
| | 34753 | Slickwater Flush | 0.00 | 85 | 7850 |
| | ISDP 5960#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2730 gals FW @ 8 BPM & 5680#. Set plug @ 13934'. Fired guns on the fly. Perforated @ 13922' (0.67', 3 holes), 13909' (0.67', 3 holes), 13896' (0.67', 3 holes), 13883' (0.67', 3 holes), 13870' (0.67', 3 holes), 13857' (0.67', 3 holes), 13844' (0.67', 3 holes), 13831' (0.67', 3 holes), 13818' (0.67', 3 holes), 13806' (0.67', 3 holes), 13792' (0.67', 3 holes) & 13779' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #30 as follows: | | | | |
| | Stage #30 @ 13922', 13909', 13896', 13883', 13870', 13857', 13844', 13831', 13818', | | | | |

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| AUG 17 – CONT | 13806', 13792', 13779' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 31 | 8640 |
| | 23400 | Slickwater | 0.00 | 45 | 8475 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 47 | 8245 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 62 | 8525 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 67 | 8425 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 76 | 8455 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 84 | 8410 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 85 | 8210 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 85 | 8435 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 85 | 8160 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 85 | 7975 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 85 | 7815 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 85 | 7850 |
| | 34637 | Slickwater Flush | 0.00 | 85 | 8260 |
| | ISDP 5895#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2226 gals FW @ 8 BPM & 5895#. Set plug @ 13769'. Fired guns on the fly. Perforated @ 13758' (0.67', 3 holes), 13746' (0.67', 3 holes), 13733' (0.67', 3 holes), 13720' (0.67', 3 holes), 13707' (0.67', 3 holes), 13694' (0.67', 3 holes), 13681' (0.67', 3 holes), 13668' (0.67', 3 holes), 13655' (0.67', 3 holes), 13642' (0.67', 3 holes), 13629' (0.67', 3 holes) & 13616' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #31 as follows: | | | | |
| | Stage #31 @ 13758', 13746', 13733', 13720', 13707', 13694', 13681', 13668', 13655', 13642', 13629', 13616' | | | | |
| | (Gals) | Stage Fluid | PPG | AIR | SCP |
| | 1000 | 10% HCl Acid | 0.00 | 34 | 8500 |
| | 23400 | Slickwater | 0.00 | 58 | 8330 |
| | 23400 | Slickwater w/100 Mesh | 0.25 | 70 | 8575 |
| | 26000 | Slickwater w/100 Mesh | 0.50 | 80 | 8675 |
| | 32500 | Slickwater w/100 Mesh | 1.00 | 80 | 8475 |
| | 41600 | Slickwater w/100 Mesh | 1.50 | 83 | 8605 |
| | 35100 | Slickwater w/100 Mesh | 1.75 | 83 | 8545 |
| | 39000 | Slickwater w/100 Mesh | 2.00 | 83 | 8800 |
| | 16900 | Slickwater w/40/70 White | 0.25 | 83 | 8575 |
| | 35100 | Slickwater w/40/70 White | 0.50 | 83 | 8430 |
| | 35100 | Slickwater w/40/70 White | 1.00 | 83 | 8210 |
| | 36400 | Slickwater w/40/70 White | 1.50 | 85 | 8360 |
| | 22100 | Slickwater w/40/70 White | 1.75 | 85 | 8645 |
| | 34535 | Slickwater Flush | 0.00 | 85 | 8580 |
| | ISDP 5700#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2436 gals FW @ 8 BPM & 5845#. Set plug @ 13606'. Fired guns on the fly. Perforated @ 13596' (0.67', 3 holes), 13583' (0.67', 3 holes), 13570' (0.67', 3 holes), 13557' (0.67', 3 holes), 13544' (0.67', 3 holes), 13531' (0.67', 3 holes), 13518' (0.67', 3 holes), 13508' (0.67', 3 holes), 13492' (0.67', 3 holes), 13479' (0.67', 3 holes), 13466' (0.67', 3 holes) & 13453' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° | | | | |

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phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #32 as follows:

Stage #32 @ 13596', 13583', 13570', 13557', 13544', 13531', 13518', 13508', 13492', 13479', 13466', 13453'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 30 | 8225 |
| 23400 | Slickwater | 0.00 | 61 | 8560 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 70 | 8615 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 70 | 8415 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 78 | 8450 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 80 | 8425 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 80 | 8275 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 80 | 8600 |
| 16900 | Slickwater w/40/70 White | 0.25 | 80 | 8400 |
| 35100 | Slickwater w/40/70 White | 0.50 | 80 | 8215 |
| 35100 | Slickwater w/40/70 White | 1.00 | 80 | 8025 |
| 36400 | Slickwater w/40/70 White | 1.50 | 80 | 7790 |
| 22100 | Slickwater w/40/70 White | 1.75 | 80 | 8200 |
| 34433 | Slickwater Flush | 0.00 | 80 | 8135 |

ISDP 5845#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 2730 gals FW @ 8 BPM & 5840#. Set plug @ 13445'. Fired guns on the fly. **Perforated @ 13433' (0.67', 3 holes), 13420' (0.67', 3 holes), 13407' (0.67', 3 holes), 13394' (0.67', 3 holes), 13379' (0.67', 3 holes), 13368' (0.67', 3 holes), 13355' (0.67', 3 holes), 13342' (0.67', 3 holes), 13329' (0.67', 3 holes), 13316' (0.67', 3 holes), 13303' (0.67', 3 holes) & 13290' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #33 as follows:

Stage #33 @ 13433', 13420', 13407', 13394', 13379', 13368', 13355', 13342', 13329', 13316', 13303', 13290'

| <u>(Gals)</u> | <u>Stage Fluid</u> | <u>PPG</u> | <u>AIR</u> | <u>SCP</u> |
|---------------|--------------------------|------------|------------|------------|
| 1000 | 10% HCl Acid | 0.00 | 31 | 8425 |
| 23400 | Slickwater | 0.00 | 53 | 8235 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 71 | 8140 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 80 | 8505 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 83 | 8470 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 85 | 8380 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 85 | 8400 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 85 | 8275 |
| 16900 | Slickwater w/40/70 White | 0.25 | 85 | 8590 |
| 35100 | Slickwater w/40/70 White | 0.50 | 85 | 8365 |
| 35100 | Slickwater w/40/70 White | 1.00 | 85 | 8115 |
| 36400 | Slickwater w/40/70 White | 1.50 | 85 | 8000 |
| 22100 | Slickwater w/40/70 White | 1.75 | 85 | 8015 |
| 34331 | Slickwater Flush | 0.00 | 85 | 8345 |

ISDP 5940#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2100 gals FW @ 8 BPM & 5875#. Set plug @ 13282'. Fired guns on the fly. **Perforated @ 13270' (0.67', 3 holes), 13258' (0.67', 3 holes), 13242' (0.67', 3 holes),**

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13228' (0.67', 3 holes), 13216' (0.67', 3 holes), 13200' (0.67', 3 holes), 13186' (0.67', 3 holes), 13172' (0.67', 3 holes), 13158' (0.67', 3 holes), 13144' (0.67', 3 holes), 13131' (0.67', 3 holes) & 13116' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #34 as follows:

Stage #34 @ 13270', 13258', 13242', 13228', 13216', 13200', 13186', 13172', 13158', 13144', 13131', 13116'

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 28 | 8160 |
| 23400 | Slickwater | 0.00 | 49 | 8315 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 60 | 8440 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 66 | 8515 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 74 | 8485 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 85 | 8230 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 85 | 7975 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 85 | 7880 |
| 16900 | Slickwater w/40/70 White | 0.25 | 85 | 8200 |
| 35100 | Slickwater w/40/70 White | 0.50 | 85 | 8000 |
| 35100 | Slickwater w/40/70 White | 1.00 | 85 | 7900 |
| 36400 | Slickwater w/40/70 White | 1.50 | 85 | 7765 |
| 22100 | Slickwater w/40/70 White | 1.75 | 85 | 7635 |
| 34228 | Slickwater Flush | 0.00 | 73 | 7650 |

ISDP 5945#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 1806 gals FW @ 8 BPM & 5765#. Set plug @ 13108'. Fired guns on the fly. Perforated @ 13096' (0.67', 3 holes), 13087' (0.67', 3 holes), 13072' (0.67', 3 holes), 13060' (0.67', 3 holes), 13048' (0.67', 3 holes), 13036' (0.67', 3 holes), 13024' (0.67', 3 holes), 13012' (0.67', 3 holes), 13001' (0.67', 3 holes), 12988' (0.67', 3 holes) 12976' (0.67', 3 holes), & 12964' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #35 as follows:

Stage #35 @ 13096', 13087', 13072', 13060', 13048', 13036', 13024', 13012', 13001', 12988', 12976', 12964'

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 48 | 8100 |
| 23400 | Slickwater | 0.00 | 51 | 8570 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 70 | 8400 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 75 | 8375 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 77 | 8400 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 77 | 8200 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 83 | 8300 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 81 | 8600 |
| 16900 | Slickwater w/40/70 White | 0.25 | 82 | 8300 |
| 35100 | Slickwater w/40/70 White | 0.50 | 82 | 8400 |
| 35100 | Slickwater w/40/70 White | 1.00 | 82 | 8100 |
| 36400 | Slickwater w/40/70 White | 1.50 | 82 | 7950 |
| 22100 | Slickwater w/40/70 White | 1.75 | 82 | 8250 |
| 34119 | Slickwater Flush | 0.00 | 82 | 8170 |

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ISDP 6018#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/1302 gals FW @ 8 BPM & 5805#. Set plug @ 12958'. Fired guns on the fly. **Perforated @ 12944' (0.67', 3 holes), 12932' (0.67', 3 holes), 12920' (0.67', 3 holes), 12908' (0.67', 3 holes), 12896' (0.67', 3 holes), 12884' (0.67', 3 holes), 12872' (0.67', 3 holes), 12860' (0.67', 3 holes), 12848' (0.67', 3 holes), 12836' (0.67', 3 holes), 12824' (0.67', 3 holes) & 12812' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #36 as follows:

Stage #36 @ 12944', 12932', 12920', 12908', 12896', 12884', 12872', 12860', 12848', 12836', 12824', 12812'

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 35 | 8290 |
| 23400 | Slickwater | 0.00 | 55 | 8215 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 62 | 8380 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 72 | 8450 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 80 | 8435 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 86 | 8310 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 86 | 8040 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 86 | 8055 |
| 16900 | Slickwater w/40/70 White | 0.25 | 86 | 8280 |
| 35100 | Slickwater w/40/70 White | 0.50 | 86 | 8110 |
| 35100 | Slickwater w/40/70 White | 1.00 | 86 | 7710 |
| 36400 | Slickwater w/40/70 White | 1.50 | 85 | 7680 |
| 22100 | Slickwater w/40/70 White | 1.75 | 85 | 7610 |
| 34024 | Slickwater Flush | 0.00 | 85 | 8000 |

ISDP 5970#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/1218 gals FW @ 8 BPM & 5765#. Set plug @ 12802'. Fired guns on the fly. **Perforated @ 12792' (0.67', 3 holes), 12780' (0.67', 3 holes), 12768' (0.67', 3 holes), 12756' (0.67', 3 holes), 12744' (0.67', 3 holes), 12732' (0.67', 3 holes), 12720' (0.67', 3 holes), 12708' (0.67', 3 holes), 12696' (0.67', 3 holes), 12684' (0.67', 3 holes), 12672' (0.67', 3 holes) & 12658' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #37 as follows:

Stage #37 @ 12792', 12780', 12768', 12756', 12744', 12732', 12720', 12708', 12696', 12684', 12672', 12658'

| (Gals) | Stage Fluid | PPG | AIR | SCP |
|--------|--------------------------|------|-----|------|
| 1000 | 10% HCl Acid | 0.00 | 33 | 8335 |
| 23400 | Slickwater | 0.00 | 52 | 8215 |
| 23400 | Slickwater w/100 Mesh | 0.25 | 66 | 8380 |
| 26000 | Slickwater w/100 Mesh | 0.50 | 72 | 8390 |
| 32500 | Slickwater w/100 Mesh | 1.00 | 80 | 8365 |
| 41600 | Slickwater w/100 Mesh | 1.50 | 85 | 8120 |
| 35100 | Slickwater w/100 Mesh | 1.75 | 85 | 7835 |
| 39000 | Slickwater w/100 Mesh | 2.00 | 85 | 7715 |
| 16900 | Slickwater w/40/70 White | 0.25 | 85 | 8045 |
| 35100 | Slickwater w/40/70 White | 0.50 | 85 | 7875 |
| 35100 | Slickwater w/40/70 White | 1.00 | 85 | 7715 |
| 36400 | Slickwater w/40/70 White | 1.50 | 85 | 7385 |

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| DATE | DAILY REPORTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--------------------------|------|-------|-------|--------|-------------|-----|-----|------|------------|--------|--------------|------|-------|-----------|--------|-------|------------|-------|------------|-------|-------|----|--------------------------|-----------|-------|-------|----|-------|--------------------------|------|----|------|--|-------|--------------------------|------|----|------|--|-------|--------------------------|------|----|------|--|-------|--------------------------|------|----|------|--|-------|--------------------------|------|----|------|--|-------|------------------|------|----|------|
| AUG 17 – CONT | 22100 | Slickwater w/40/70 White | 1.75 | 85 | 7322 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 33929 | Slickwater Flush | 0.00 | 85 | 7870 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ISDP 6030#. RIH w/Halliburton FasDrill Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/ 1050 gals FW @ 8 BPM & 5850#. Set plug @ 12650'. Fired guns on the fly. Perforated @ 12640' (0.67', 3 holes), 12628' (0.67', 3 holes), 12616' (0.67', 3 holes), 12604' (0.67', 3 holes), 12592' (0.67', 3 holes), 12580' (0.67', 3 holes), 12568' (0.67', 3 holes), 12556' (0.67', 3 holes), 12544' (0.67', 3 holes), 12530' (0.67', 3 holes), 12520' (0.67', 3 holes) & 12508' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #38 as follows: <u>Stage #38 @ 12640', 12628', 12616', 12604', 12592', 12580', 12568', 12556', 12544', 12530', 12520', 12508'</u> <table><tr><th>(Gals)</th><th>Stage Fluid</th><th>PPG</th><th>AIR</th><th>SCP</th><th></th></tr><tr><td>1000</td><td>10% HCl Acid</td><td>0.00</td><td>37</td><td>8485</td><td></td></tr><tr><td>37400</td><td>Slickwater</td><td>0.00</td><td>58</td><td>8140</td><td>37440</td></tr><tr><td></td><td>Slickwater w/40/70 White</td><td>0.25</td><td>74</td><td>8420</td><td></td></tr><tr><td>41600</td><td>Slickwater w/40/70 White</td><td>0.50</td><td>75</td><td>8335</td><td></td></tr><tr><td>52000</td><td>Slickwater w/40/70 White</td><td>1.00</td><td>77</td><td>8130</td><td></td></tr><tr><td>66560</td><td>Slickwater w/40/70 White</td><td>1.50</td><td>82</td><td>8225</td><td></td></tr><tr><td>56160</td><td>Slickwater w/40/70 White</td><td>1.75</td><td>82</td><td>8170</td><td></td></tr><tr><td>62400</td><td>Slickwater w/40/70 White</td><td>2.00</td><td>82</td><td>8510</td><td></td></tr><tr><td>33833</td><td>Slickwater Flush</td><td>0.00</td><td>82</td><td>8440</td><td></td></tr></table> ISDP 5843#. 5 min 5493#, 10 min 5400#, 15 min 5363#. AIR 66BPM. ASCP 8420#. (372407 BLWTR). Frac Horizontal Wolfcamp w/15641107 gal Slickwater, carrying 9090640# 100 Mesh Sand & 5757520# 40/70 White Sand. RDMO Halliburton, Guardian & Reliance WL. EDCC \$3,813,226. CTCC \$4,181,306. CTDC \$2,664,359. CTWC \$6,845,665. AFEC \$8,427,300. (RB/RS/KM/JH/MGW/RP-C/KB-C) | | | | | (Gals) | Stage Fluid | PPG | AIR | SCP | | 1000 | 10% HCl Acid | 0.00 | 37 | 8485 | | 37400 | Slickwater | 0.00 | 58 | 8140 | 37440 | | Slickwater w/40/70 White | 0.25 | 74 | 8420 | | 41600 | Slickwater w/40/70 White | 0.50 | 75 | 8335 | | 52000 | Slickwater w/40/70 White | 1.00 | 77 | 8130 | | 66560 | Slickwater w/40/70 White | 1.50 | 82 | 8225 | | 56160 | Slickwater w/40/70 White | 1.75 | 82 | 8170 | | 62400 | Slickwater w/40/70 White | 2.00 | 82 | 8510 | | 33833 | Slickwater Flush | 0.00 | 82 | 8440 |
| (Gals) | Stage Fluid | PPG | AIR | SCP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 10% HCl Acid | 0.00 | 37 | 8485 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37400 | Slickwater | 0.00 | 58 | 8140 | 37440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Slickwater w/40/70 White | 0.25 | 74 | 8420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41600 | Slickwater w/40/70 White | 0.50 | 75 | 8335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52000 | Slickwater w/40/70 White | 1.00 | 77 | 8130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66560 | Slickwater w/40/70 White | 1.50 | 82 | 8225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56160 | Slickwater w/40/70 White | 1.75 | 82 | 8170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62400 | Slickwater w/40/70 White | 2.00 | 82 | 8510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33833 | Slickwater Flush | 0.00 | 82 | 8440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 18 2017 | FCP 3710#. Open well @ 2:00 P.M. <table><tr><th>Time</th><th>Ck</th><th>FCP</th><th>BPH</th><th>Sand</th></tr><tr><td>10:00 P.M.</td><td>14/64"</td><td>3900#</td><td>102</td><td>heavy</td></tr><tr><td>2:00 A.M.</td><td>14/64"</td><td>3600#</td><td>98</td><td>heavy</td></tr></table> This A.M., FCP 3500# on 14/64" making 93 BPH (no oil, heavy sand, heavy gas). Recovered 1495 bbls in 15 hrs. (270912 BLWTR, Recovered 1%). EDCC \$10,000. CTCC \$4,191,306. CTDC \$2,664,359. CTWC \$6,855,665. AFEC \$8,427,300. (CMB) | | | | | Time | Ck | FCP | BPH | Sand | 10:00 P.M. | 14/64" | 3900# | 102 | heavy | 2:00 A.M. | 14/64" | 3600# | 98 | heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time | Ck | FCP | BPH | Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 P.M. | 14/64" | 3900# | 102 | heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 A.M. | 14/64" | 3600# | 98 | heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 19 2017 | Continue flowback: <table><tr><th>Time</th><th>Ck</th><th>FCP</th><th>BPH</th><th>Sand</th></tr><tr><td>10:00 A.M.</td><td>14/64"</td><td>4075#</td><td>102</td><td>Heavy</td></tr><tr><td>2:00 P.M.</td><td>9/64"</td><td>4100#</td><td>55</td><td>Heavy</td></tr><tr><td>10:00 P.M.</td><td>9/64"</td><td>4100#</td><td>51</td><td>Heavy</td></tr><tr><td>2:00 A.M.</td><td>9/64"</td><td>4050#</td><td>52</td><td>Heavy</td></tr></table> This A.M., FCP 4050# on 9/64" making 56 BPH (1% oil, heavy sand, heavy gas). Recovered | | | | | Time | Ck | FCP | BPH | Sand | 10:00 A.M. | 14/64" | 4075# | 102 | Heavy | 2:00 P.M. | 9/64" | 4100# | 55 | Heavy | 10:00 P.M. | 9/64" | 4100# | 51 | Heavy | 2:00 A.M. | 9/64" | 4050# | 52 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time | Ck | FCP | BPH | Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 A.M. | 14/64" | 4075# | 102 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 P.M. | 9/64" | 4100# | 55 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 P.M. | 9/64" | 4100# | 51 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 A.M. | 9/64" | 4050# | 52 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

ST

TX

Section

TwNShp

Rng

Section

12

Blk

20

Survey

Filename

Page

33

API # 42-495-33830

| DATE | DAILY REPORTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|------------|-----------|-------------|-----------|----------|------------|--------|--------|-----------|-------|-----------|--------|--------|-----------|-------------|------------|--------|---------|-----------|------------|-----------|--------|--------|-----------|-------------|----|--------|-----|-----------|-----|----|--------|---------|-----------|-------------|----|--------|---------|-----------|------------|----|--------|--------|-----------|-------------|----|--------|--------|-----------|------------|----|--------|--------|-----------|-------------|----|--------|---------|-----------|------------|----|--------|--------|-----------|-------------|----|--------|--------|-----------|------------|----|--------|--------|-----------|-------------|----|--------|--------|-----------|------------|----|--------|--------|-----------|-------------|----|--------|--------|-----------|------------|----|--------|--------|-----------|-------------|
| AUG 20 2017 | <p>1651 bbls overnight. (269261 BLWTR, recovered 1% of load). EDCC \$10,000. CTCC \$4,201,306. CTDC \$2,664,359. CTWC \$6,865,665. AFEC \$8,427,300. (CMB)</p> <p>Continue flowback:</p> <table><tr><th>Time</th><th>Ck</th><th>FCP</th><th>BPH</th><th>Sand</th></tr><tr><td>10:00 A.M.</td><td>9/64"</td><td>4050#</td><td>52</td><td>Heavy</td></tr><tr><td>2:00 P.M.</td><td>9/64"</td><td>4050#</td><td>54</td><td>Heavy</td></tr><tr><td>10:00 P.M.</td><td>9/64"</td><td>4100#</td><td>56</td><td>Heavy</td></tr><tr><td>2:00 A.M.</td><td>9/64"</td><td>4100#</td><td>51</td><td>Heavy</td></tr></table> <p>This A.M., FCP 4050# on 9/64" making 51 BPH (1% oil, heavy sand, heavy gas). Recovered 1279 bbls overnight. (267982 BLWTR, recovered 1% of load). EDCC \$10,000. EDDC \$0. CTCC \$4,211,306. CTDC \$2,664,359. CTWC \$6,875,665. AFEC \$8,427,300. (CMB)</p> | Time | Ck | FCP | BPH | Sand | 10:00 A.M. | 9/64" | 4050# | 52 | Heavy | 2:00 P.M. | 9/64" | 4050# | 54 | Heavy | 10:00 P.M. | 9/64" | 4100# | 56 | Heavy | 2:00 A.M. | 9/64" | 4100# | 51 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time | Ck | FCP | BPH | Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 A.M. | 9/64" | 4050# | 52 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 P.M. | 9/64" | 4050# | 54 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 P.M. | 9/64" | 4100# | 56 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 A.M. | 9/64" | 4100# | 51 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 21 2017 | <p>Continue flowback:</p> <table><tr><th>Time</th><th>Ck</th><th>FCP</th><th>BPH</th><th>Sand</th></tr><tr><td>10:00 A.M.</td><td>9/64"</td><td>4000#</td><td>52</td><td>Heavy</td></tr><tr><td>2:00 P.M.</td><td>9/64"</td><td>4000#</td><td>52</td><td>Heavy</td></tr><tr><td>10:00 P.M.</td><td>9/64"</td><td>4000#</td><td>53</td><td>Heavy</td></tr><tr><td>2:00 A.M.</td><td>9/64"</td><td>4000#</td><td>55</td><td>Heavy</td></tr></table> <p>This A.M., FCP 4000# on 9/64" making 51 BPH (no oil, heavy sand, heavy gas). Recovered 1256 bbls overnight. (266726 BLWTR, recovered 2% of load). EDCC \$10,000. CTCC \$4,221,306. EDDC \$0. CTDC \$2,664,359. CTWC \$6,885,665. AFEC \$8,427,300. (CMB)</p> | Time | Ck | FCP | BPH | Sand | 10:00 A.M. | 9/64" | 4000# | 52 | Heavy | 2:00 P.M. | 9/64" | 4000# | 52 | Heavy | 10:00 P.M. | 9/64" | 4000# | 53 | Heavy | 2:00 A.M. | 9/64" | 4000# | 55 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time | Ck | FCP | BPH | Sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 A.M. | 9/64" | 4000# | 52 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 P.M. | 9/64" | 4000# | 52 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 P.M. | 9/64" | 4000# | 53 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 A.M. | 9/64" | 4000# | 55 | Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 22 2017 | <p>FCP 4000#. MIRU Viking 2 3/8" CT, Moran flowback & TTS tools. Held safety meeting & pressure tested to 8000#. RIH w/3 3/4" smith bit, motor, agitator, hydroshock, hydraulic disconnect, jars, dual flapper, weld on coil connector & coil tbg to 11500'. Broke circulation with 2.5 BPM & set returns @ 3.5 BPM @ 4000#. Drill plugs as follows:</p> <table><tr><th>Plug #</th><th>Depth</th><th>Drill time</th><th>Plug type</th><th>Comments</th></tr><tr><td>37</td><td>12579'</td><td>4 mins</td><td>Fas-Drill</td><td>N/A</td></tr><tr><td>36</td><td>12728'</td><td>7 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr><tr><td>35</td><td>12885'</td><td>10 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>34</td><td>13035'</td><td>7 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr><tr><td>33</td><td>13282'</td><td>N/A</td><td>Fas-Drill</td><td>DNS</td></tr><tr><td>32</td><td>13369'</td><td>16 mins</td><td>Fas-Drill</td><td>5 bbl Sweep</td></tr><tr><td>31</td><td>13529'</td><td>15 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>30</td><td>13692'</td><td>4 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr><tr><td>29</td><td>13857'</td><td>6 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>28</td><td>14038'</td><td>5 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr><tr><td>27</td><td>14212'</td><td>14 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>26</td><td>14375'</td><td>3 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr><tr><td>25</td><td>14578'</td><td>3 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>24</td><td>14665'</td><td>4 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr><tr><td>23</td><td>14832'</td><td>7 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>22</td><td>14969'</td><td>6 mins</td><td>Fas-Drill</td><td>5 bbl Sweep</td></tr><tr><td>21</td><td>15151'</td><td>6 mins</td><td>Fas-Drill</td><td>Heavy sand</td></tr><tr><td>20</td><td>15337'</td><td>3 mins</td><td>Fas-Drill</td><td>5 bbl sweep</td></tr></table> | Plug # | Depth | Drill time | Plug type | Comments | 37 | 12579' | 4 mins | Fas-Drill | N/A | 36 | 12728' | 7 mins | Fas-Drill | 5 bbl sweep | 35 | 12885' | 10 mins | Fas-Drill | Heavy sand | 34 | 13035' | 7 mins | Fas-Drill | 5 bbl sweep | 33 | 13282' | N/A | Fas-Drill | DNS | 32 | 13369' | 16 mins | Fas-Drill | 5 bbl Sweep | 31 | 13529' | 15 mins | Fas-Drill | Heavy sand | 30 | 13692' | 4 mins | Fas-Drill | 5 bbl sweep | 29 | 13857' | 6 mins | Fas-Drill | Heavy sand | 28 | 14038' | 5 mins | Fas-Drill | 5 bbl sweep | 27 | 14212' | 14 mins | Fas-Drill | Heavy sand | 26 | 14375' | 3 mins | Fas-Drill | 5 bbl sweep | 25 | 14578' | 3 mins | Fas-Drill | Heavy sand | 24 | 14665' | 4 mins | Fas-Drill | 5 bbl sweep | 23 | 14832' | 7 mins | Fas-Drill | Heavy sand | 22 | 14969' | 6 mins | Fas-Drill | 5 bbl Sweep | 21 | 15151' | 6 mins | Fas-Drill | Heavy sand | 20 | 15337' | 3 mins | Fas-Drill | 5 bbl sweep |
| Plug # | Depth | Drill time | Plug type | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 12579' | 4 mins | Fas-Drill | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 12728' | 7 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 12885' | 10 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 13035' | 7 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 13282' | N/A | Fas-Drill | DNS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 13369' | 16 mins | Fas-Drill | 5 bbl Sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 13529' | 15 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 13692' | 4 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 13857' | 6 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 14038' | 5 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 14212' | 14 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 14375' | 3 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 14578' | 3 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 14665' | 4 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 14832' | 7 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 14969' | 6 mins | Fas-Drill | 5 bbl Sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 15151' | 6 mins | Fas-Drill | Heavy sand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 15337' | 3 mins | Fas-Drill | 5 bbl sweep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

ST

TX

Section

TwtnShp

Rng

Section

12

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| AUG 22 – CONT | Made 1000' short trip, w/no drag. RIH to plug #19. | | | | |
| | 19 | 15521' | 5 mins | FasDrill | Heavy sand |
| | 18 | 15655' | 7 mins | Obsidian | 5 bbl sweep |
| | 17 | 15799' | 6 mins | Obsidian | Heavy sand |
| | 16 | 15936' | 4 mins | Obsidian | 5 bbl sweep |
| | 15 | 16097' | 3 mins | Obsidian | Heavy sand |
| | 14 | 16259' | 13 mins | Obsidian | 10 bbls sweep |
| | 13 | 16423' | 9 mins | Obsidian | Heavy sand |
| | 12 | 16581' | 7 mins | Obsidian | 5 bbl sweep |
| | 11 | 16745' | 3 mins | Obsidian | Heavy sand |
| | 10 | 16905' | 5 mins | Obsidian | 5 bbl sweep |
| | 9 | 17068' | 4 mins | Obsidian | Heavy sand |
| | 8 | 17232' | 4 mins | Obsidian | 5 bbl sweep |
| | 7 | 17397' | 6 mins | Obsidian | Heavy sand/friction |
| | 6 | 17568' | 3 mins | Obsidian | 5 bbl sweep |
| | 5 | 17738' | 6 mins | Obsidian | Heavy sand/friction |
| | 4 | 17901' | 3 mins | Obsidian | 5 bbl sweep |
| | 3 | 18060' | 7 mins | Obsidian | Heavy sand |
| | 2 | 18212' | 3 mins | Obsidian | Heavy sand/friction |
| | 1 | 18496' | N/A | Obsidian | DNS - 10 bbl sweep |
| POOH @ report time. Pumped sweeps after every other plug. Recovered 2160 bbls while drlg (264566, recovered 3% of load). | | | | | |
| MI & set the following: | | | | | |
| 4 - 500 bbl Azteca steel tanks w/bottom 18" coated (SN 2154, 2155, 2156, 2157) | | | | | |
| 2 - 500 bbl Azteca steel tanks 100% coated (SN 2152, 2153) | | | | | |
| 1 - 750 bbl Azteca steel tank 100% coated (SN 2151) | | | | | |
| 1 - 36" x 10' x 1000# Azteca 3 phase separator (SN 2158) | | | | | |
| 1 - 30" x 10' x 500# Azteca 2 phase separator (SN 2161) | | | | | |
| 1 - 30" x 10' x 125# Azteca 2 phase separator (SN 2373) | | | | | |
| 1 - 6' x 20' x 125# Azteca HT (SN 2159) | | | | | |
| 1 - 6' x 15' x 125# Azteca FWKO (SN 2160) | | | | | |
| 1 - Crane 3" meter tube (SN 314-0337) | | | | | |
| 1 - 250" x 1500# EFM (SN T17067103) | | | | | |
| Laid 800' of 4" SDR 9 poly line to tie in point & 4050' of 4" x 52 pipe to tie in point. Installed approximately 3000' of electric power line to location. EDCC \$645,060. CTCC \$4,866,366. EDDC \$0. CTDC \$2,664,359. CTWC \$7,530,725. AFEC \$8,427,300. (KR/RJH/CC/DM) | | | | | |
| AUG 23 2017 | FCP 3700#. Continue POOH. Pipe became stuck @ 16798'. Work pipe from 16798' to 16689' for 10 hrs. Dropped 7 hydroshock balls, saw good ball action but did not come free. Dropped 8 th Hydroshock ball, fired @ 9400# & pipe became free. Finished POOH. RDMO Viking CT & TTS tools. Recovered 3550 bbls while drilling. (265711 BLWTR, recovered 2% of load). Will continue flowback this A.M. EDCC \$121,779. CTCC \$4,988,145. EDDC \$0. CTDC \$2,664,359. CTWC \$7,652,504. AFEC \$8,427,300. (KR/RJH/CC/ARM/CMB) | | | | |

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| AUG 24 2017 | FCP 3800#. Continue flowback: | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 24 – CONT | <table><tr><th>Time</th><th>Ck</th><th>FCP</th><th>BPH</th><th>Sand</th></tr><tr><td>10:00 A.M.</td><td>18/64"</td><td>3650#</td><td>151</td><td>heavy</td></tr><tr><td>2:00 P.M.</td><td>18/64"</td><td>3550#</td><td>154</td><td>heavy</td></tr><tr><td>10:00 P.M.</td><td>18/64"</td><td>3550#</td><td>153</td><td>heavy</td></tr><tr><td>2:00 A.M.</td><td>18/64"</td><td>3550#</td><td>154</td><td>heavy</td></tr></table> <p>This A.M., FCP 3550# on 18/64" making 153 BPH (1% oil, heavy sand, medium gas). Recovered 3611 bbls overnight. (262100 BLWTR, recovered 3% of load). EDCC \$10,000. CTCC \$4,998,145. EDDC \$0. CTDC \$2,664,359. CTWC \$7,662,504. AFEC \$8,427,300. (CMB)</p> | Time | Ck | FCP | BPH | Sand | 10:00 A.M. | 18/64" | 3650# | 151 | heavy | 2:00 P.M. | 18/64" | 3550# | 154 | heavy | 10:00 P.M. | 18/64" | 3550# | 153 | heavy | 2:00 A.M. | 18/64" | 3550# | 154 | heavy |
| Time | Ck | FCP | BPH | Sand | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 A.M. | 18/64" | 3650# | 151 | heavy | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 P.M. | 18/64" | 3550# | 154 | heavy | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 P.M. | 18/64" | 3550# | 153 | heavy | | | | | | | | | | | | | | | | | | | | | | |
| 2:00 A.M. | 18/64" | 3550# | 154 | heavy | | | | | | | | | | | | | | | | | | | | | | |
| AUG 25 2017 | FCP 3550#. Continue flowback: | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th>Time</th><th>Ck</th><th>FCP</th><th>BPH</th><th>Sand</th></tr><tr><td>10:00 A.M.</td><td>18/64"</td><td>3550#</td><td>155</td><td>Light</td></tr></table> <p>FCP 3550# on 18/64" making 137 BPH (1% oil, light sand, medium gas). Recovered 910 bbls in 6 hrs. PWOL for initial sales to Outriggers MM #200-037. Switch to pumper gauges. (361190 BLWTR, recovered 4% of load). Transfer reports to West Texas District. EDCC \$13,000. CTCC \$5,011,145. EDDC \$0. CTDC \$2,664,359. CTWC \$7,675,504. AFEC \$8,427,300. (CMB/DM)</p> | Time | Ck | FCP | BPH | Sand | 10:00 A.M. | 18/64" | 3550# | 155 | Light | | | | | | | | | | | | | | | |
| Time | Ck | FCP | BPH | Sand | | | | | | | | | | | | | | | | | | | | | | |
| 10:00 A.M. | 18/64" | 3550# | 155 | Light | | | | | | | | | | | | | | | | | | | | | | |
| AUG 26 2017 | AUG 26 2017 0 BO, 909 BW, 30 MCF. BLWTR – 360,281 - 3% rec. LP – 153#. CP – 3650#. Ck – 19/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 27 2017 | 0 BO, 2342 BW, 37 MCF. BLWTR – 357,939 - 4% rec. LP – 169#. CP – 3650#. Ck – 19/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 28 2017 | 0 BO, 2320 BW, 49 MCF. BLWTR – 355,619 - 5% rec. LP – 169#. CP – 3600#. Ck – 19/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 29 2017 | 48 BO, 2350 BW, 48 MCF. BLWTR – 353,269 - 6% rec. LP – 168#. CP – 3600#. Ck – 19/64”. Targa down. | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 30 2017 | 66 BO, 2309 BW, 88 MCF. BLWTR – 350,960 - 6% rec. LP – 169#. CP – 3550#. Ck – 19/64”. Targa down. | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUG 31 2017 | 65 BO, 2263 BW, 60 MCF. BLWTR – 348,697 - 7% rec. LP – 171#. CP – 3500#. Ck – 19/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEPT 01 2017 | 89 BO, 2554 BW, 121 MCF. BLWTR – 346,143 - 7% rec. LP – 261#. CP – 3500#. Ck – 17/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEPT 02 2017 | 165 BO, 2418 BW, 69 MCF. BLWTR – 343,725 - 8% rec. LP – 196#. CP – 3450#. Ck – 17/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEPT 03 2017 | 163 BO, 2501 BW, 172 MCF. BLWTR – 341,224 - 9% rec. LP – 204#. CP – 3450#. Ck – 18/64”. | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEPT 04 2017 | OT 17 hrs. 222 BO, 2615 BW, 231 MCF. BLWTR – 338,609 - 9% rec. LP – 199#. CP – 3425#. Ck – 18/64”. Shut in @ 5:00 A.M. due to power outage. Back online @ 10:00 A.M. | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SEPT 05 2017 | 165 BO, 2025 BW, 224 MCF. BLWTR – 336,584 - 10% rec. LP – 194#. CP – 3400#. Ck – 16/64”. |
| SEPT 06 2017 | 169 BO, 2378 BW, 240 MCF. BLWTR – 334,206 - 11% rec. LP – 139#. CP – 3400#. Ck – 18/64”. |
| SEPT 07 2017 | 244 BO, 2530 BW, 295 MCF. BLWTR – 331,676 - 11% rec. LP – 158#. CP – 3325#. Ck – 18/64”. |
| SEPT 08 2017 | 261 BO, 2519 BW, 206 MCF. BLWTR – 329,157 - 12% rec. LP – 191#. CP – 3350#. Ck – 18/64”. |
| SEPT 09 2017 | 258 BO, 2485 BW, 273 MCF. BLWTR – 326,672 - 13% rec. LP – 196#. CP – 3300#. Ck – 18/64”. |
| SEPT 10 2017 | 373 BO, 2877 BW, 334 MCF. BLWTR – 323,795 - 13% rec. LP – 223#. CP – 3300#. Ck – 21/64”. |
| SEPT 11 2017 | 458 BO, 3114 BW, 345 MCF. BLWTR – 320,681 - 14% rec. LP – 192#. CP – 3225#. Ck – 21/64”. |
| SEPT 12 2017 | 457 BO, 3086 BW, 423 MCF. BLWTR – 317,595 - 15% rec. LP – 177#. CP – 3200#. Ck – 21/64”. Targa down. |
| SEPT 13 2017 | 449 BO, 3066 BW, 423 MCF. BLWTR – 314,529 - 16% rec. LP – 237#. CP – 3200#. Ck – 21-22/64”. |
| SEPT 14 2017 | 505 BO, 3190 BW, 345 MCF. BLWTR – 311,339 - 17% rec. LP – 223#. CP – 3150#. Ck – 22/64”. |
| SEPT 15 2017 | 570 BO, 3560 BW, 533 MCF. BLWTR – 307,779 - 18% rec. LP – 206#. CP – 3050#. Ck – 24/64”. |
| SEPT 16 2017 | 639 BO, 3651 BW, 581 MCF. BLWTR – 304,128 - 19% rec. LP – 233#. CP – 2950#. Ck – 25/64”. |
| SEPT 17 2017 | 632 BO, 3728 BW, 521 MCF. BLWTR – 300,400 - 20% rec. LP – 205#. CP – 2900#. Ck – 25/64”. |
| SEPT 18 2017 | 670 BO, 3824 BW, 671 MCF. BLWTR – 296,576 - 21% rec. LP – 219#. CP – 2825#. Ck – 26/64”. |
| SEPT 19 2017 | 678 BO, 3867 BW, 475 MCF. BLWTR – 292,709 - 22% rec. LP – 229#. CP – 2800#. Ck – 26/64”. |
| SEPT 20 2017 | 768 BO, 4201 BW, 368 MCF. BLWTR – 288,508 - 23% rec. LP – 193#. CP – 2650#. Ck – 28/64”. |
| SEPT 21 2017 | 797 BO, 4362 BW, 509 MCF. BLWTR – 284,146 - 24% rec. LP – 230#. CP – 2600#. Ck – 28/64”. |

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| SEPT 22 2017 | 772 BO, 4397 BW, 415 MCF. BLWTR – 279,749 - 25% rec. LP – 230#. CP – 2500#. Ck – 29/64”. |
| SEPT 23 2017 | 805 BO, 4350 BW, 528 MCF. BLWTR – 275,399 - 26% rec. LP – 210#. CP – 2450#. Ck – 29/64”. |
| SEPT 24 2017 | 780 BO, 4395 BW, 779 MCF. BLWTR – 271,004 - 28% rec. LP – 212#. CP – 2400#. Ck – 29/64”. |
| SEPT 25 2017 | 877 BO, 4714 BW, 729 MCF. BLWTR – 266,290 - 29% rec. LP – 253#. CP – 2250#. Ck – 31/64”. |
| SEPT 26 2017 | 854 BO, 4730 BW, 220 MCF. BLWTR – 261,560 - 30% rec. LP – 195#. CP – 2200#. Ck – 31/64”. Targa down. |
| SEPT 27 2017 | 842 BO, 4553 BW, 866 MCF. BLWTR – 257,007 - 31% rec. LP – 199#. CP – 2150#. Ck – 31/64”. |
| SEPT 28 2017 | 825 BO, 4450 BW, 886 MCF. BLWTR – 252,557 - 33% rec. LP – 212#. CP – 2100#. Ck – 31-33/64”. |
| SEPT 29 2017 | OT 21 ½ hrs - 685 BO, 3970 BW, 763 MCF. BLWTR – 248,587 - 34% rec. LP – 227#. CP – 2100#. Ck – 31-33/64”. Down 2 ½ hrs to repair surface equipment. |
| SEPT 30 2017 | 918 BO, 4497 BW, 941 MCF. BLWTR – 244,090 - 35% rec. LP – 193#. CP – 1950#. Ck – 32-33/64”. |
| OCT 01 2017 | 904 BO, 4842 BW, 712 MCF. BLWTR – 239,248 - 36% rec. LP – 211#. CP – 1850#. Ck – 33-34/64”. |
| OCT 02 2017 | 897 BO, 4887 BW, 851 MCF. BLWTR – 234,361 - 37% rec. LP – 213#. CP – 1750#. Ck – 34/64”. |
| OCT 03 2017 | 996 BO, 4959 BW, 973 MCF. BLWTR – 229,402 - 39% rec. LP – 192#. CP – 1650#. Ck – 35/64”. |
| OCT 04 2017 | 840 BO, 4703 BW, 895 MCF. BLWTR – 224,699 - 40% rec. LP – 214#. CP – 1600#. Ck – 35-36/64”. |
| OCT 05 2017 | 941 BO, 5017 BW, 916 MCF. BLWTR – 219,682 - 41% rec. LP – 214#. CP – 1450#. Ck – 36-40/64”. |
| OCT 06 2017 | 948 BO, 4923 BW, 569 MCF. BLWTR – 214,759 - 43% rec. LP – 209#. CP – 1350#. Ck – 41/64”. |
| OCT 07 2017 | 932 BO, 5035 BW, 527 MCF. BLWTR – 209,724 - 44% rec. LP – 211#. CP – 1300#. Ck – 41/64”. |
| OCT 08 2017 | 933 BO, 5161 BW, 937 MCF. BLWTR – 204,563 - 45% rec. LP – 260#. CP – 1220#. Ck – 41/64”. |

| | | | | | | | |
|---------------------------|----------------------|------------|----------------|----------------|-----------------|---------------------|------------|
| Lease | University B20 12/13 | | Well No | W101DD | Location | 365' FNL & 330' FWL | |
| County | Winkler | ST | TX | Section | | TwnShp | Rng |
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| OCT 09 2017 | 889 BO, 4920 BW, 747 MCF. BLWTR – 199,643 - 47% rec. LP – 212#. CP – 1075#. Ck – 41/64”. |