

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

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DATE	DAILY REPORTS																											
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'
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	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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	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'																										
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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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DATE	DAILY REPORTS
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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Lease

University B20 12/13

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API # 42-495-33830

DATE	DAILY REPORTS
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. TOO H & 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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Lease

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County

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DATE	DAILY REPORTS
JUL 06 – CONT	<div><div>1Weatherford Float Collar1.25'</div><div>1367" 29# P110 LT&C Csg5253.29'</div><div>167" 29# P110 LT&C Bond Coated Csg614.02'</div><div>1Weatherford ECP set @ 6383'26.60'</div><div>17" 29# P110 LT&C Bond Coated Csg39.04'</div><div>1Weatherford DV Tool @ 6320'2.25'</div><div>357" 29# P110 LT&C Bond Coated Csg1352.07'</div><div>1287" 29# P110 LT&C Csg4932.14'</div><div>17" 29# HCP110LT&C pup jt csg5.51'</div><div>17" Landing tool34.82'</div><div>Total12301.70'</div><div>Less above KB4.70'</div><div>Csg set @12297.00'</div></div> <div>(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.)</div> <div>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.)</div>
JUL 07 2017	<div>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)</div>
JUL 08 2017	<div>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</div>

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Section12Blk20Survey

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DATE	DAILY REPORTS
	<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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DATE	DAILY REPORTS																					
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. <u>Total lateral open hole @ 6393'</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 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><u>27.25'</u></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'	<u>27.25'</u>		Total	7090.77'
1	Weatherford Float Shoe	1.51'																				
1	Weatherford Float Collar	1.34'																				
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	Total	7090.77'																				

MEWBOURNE OIL COMPANY
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DATE	DAILY REPORTS
	<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>

MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
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LeaseUniversity B20 12/13Well NoW101DDLocation365' FNL & 330' FWL

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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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DATE	DAILY REPORTS																																																																											
	(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																																																																								
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	ISDP 5700#. RIH w/Halliburton Obsidian Composite frac plug & 12 - 2' HP scalloped guns.																																																																											

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AUG 17 – CONT

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'

(Gals)	Stage Fluid	PPG	AIR	SCP
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'

(Gals)	Stage Fluid	PPG	AIR	SCP
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
500 WEST TEXAS, SUITE 1020
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DATE	DAILY REPORTS				
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 ⅛" ball. Frac stage #4 as follows:				
	<u>Stage #4 @ 18160', 18147', 18134', 18121', 18108', 18095', 18082', 18069', 18056', 18041', 18030', 18017'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	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 ⅛" ball. Frac stage #5 as follows:				
	<u>Stage #5 @ 17997', 17983', 17969', 17955', 17941', 17927', 17913', 17899', 17885', 17871', 17857', 17843'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	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

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DATE	DAILY REPORTS				
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

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DATE	DAILY REPORTS				
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:				
	<u>Stage #8 @ 17486', 17473', 17460', 17447', 17434', 17421', 17407', 17395', 17382', 17369', 17356', 13343'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	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:				
	<u>Stage #9 @ 17320', 17310', 17297', 17286', 17271', 17258', 17245', 17232', 17219', 17206', 17192', 17180'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	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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AUG 17 – CONT	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:				
	<u>Stage #10 @ 17160', 17147', 17134', 17121', 17108', 17095', 17082', 17065', 17056', 17043', 17030', 17017'</u>				
	<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:				
	<u>Stage #11 @ 16997', 16980', 16971', 16958', 16946', 16932', 16919', 16906', 16893', 16880', 16867', 16852'</u>				
	<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	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																																																																											

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	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:				

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(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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	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 ⅛" 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 ⅛" 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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DATE	DAILY REPORTS				
AUG 17 – CONT	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'				
	(Gals)	Stage Fluid	PPG	AIR	SCP
	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'				
	(Gals)	Stage Fluid	PPG	AIR	SCP
	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:				
	<u>Stage #25 @ 14737', 14726', 14715', 14704', 14693', 14682', 14671', 14660', 14649', 14638', 14627', 14616'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	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:				
	<u>Stage #26 @ 14596', 14583', 14567', 14557', 14544', 14531', 14518', 14505', 14492', 14479', 14466', 14453'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	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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	(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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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>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	1000	10% HCl Acid	0.00	37	8485
	37400	Slickwater	0.00	58	8140
		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	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)				
	FCP 3710#. Open well @ 2:00 P.M.				
	<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>
	10:00 P.M.	14/64"	3900#	102	heavy
	2:00 A.M.	14/64"	3600#	98	heavy
	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)				
	Continue flowback:				
	<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>
	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	
AUG 19 2017	This A.M., FCP 4050# on 9/64" making 56 BPH (1% oil, heavy sand, heavy gas). Recovered				

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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																																																																																												
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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																																																																																												
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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																																																																																												
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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																																																																																												
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DATE	DAILY REPORTS				
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)				

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																									
AUG 24 2017	FCP 3800#. Continue flowback:																									
AUG 24 – CONT	<table><tr><td><u>Time</u></td><td><u>Ck</u></td><td><u>FCP</u></td><td><u>BPH</u></td><td><u>Sand</u></td></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>	<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>	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
<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>																						
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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><td><u>Time</u></td><td><u>Ck</u></td><td><u>FCP</u></td><td><u>BPH</u></td><td><u>Sand</u></td></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>	<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>	10:00 A.M.	18/64"	3550#	155	Light															
<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>																						
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”.																									