

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

LeaseUniversity B21 8Well No#W101CNLocation185' FNL & 1660' FWL

CountyWinklerSTTXSectionTwtnShpRng

Section8Blk21Survey

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DATE	DAILY REPORTS
JUN 8 2017	Staked location 185' FNL & 1660' FWL, Sec 8, Blk 21 Winkler Co. TX. Moved location 320' west from original calls due to existing gas pipelines. (JWB)
JUN 19-28 2017	Continue building location. (JWB)
JUN 29 2017	Continue building location. (JWB)
JUN 30 2017	Location finished and ready for cellar & rat holes. TWC \$55,000. (JWB)
JUL 18 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 @ 185' FNL & 1660' FWL, Sec 8, Blk 21, UL Survey, Winkler Co., Texas. Start MI Patterson/UTI #220 w/Lightning Oilfield Services from the University B20 12/13 #W101DD this A.M. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$55,000. ETWC \$55,000. AFEC \$7,123,000. (JRH/JN/FL)
JUL 19 2017	MIRU Patterson/UTI #220 w/Lightning Oilfield Services. 40% Moved in. 15% Rigged up. Move Day 1. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$55,000. ETWC \$55,000. AFEC \$7,123,000. (JRH/JN)
JUL 20 2017	Continue RU Patterson/UTI #220 w/Lightning Oilfield Services. 100% Moved in. 40% Rigged up. Move Day 2. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$55,000. ETWC \$55,000. AFEC \$7,123,000. (JRH/JN)
JUL 21 2017	Continue RU Patterson/UTI #220. 100% Moved in. 90% Rigged up. Move Day 3. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$55,000. CTWC \$55,000. AFEC \$7,123,000. (SN/DBP/JN)
JUL 22 2017	Continue RU Patterson/UTI #220. 100% Moved in. 98% Rigged up. Move Day 4. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$55,000. CTWC \$55,000. AFEC \$7,123,000. (SN/DBP/JN)
JUL 23 2017	983' (903'). Operation: TOO H to run 13 3⁄8" csg. Formation: Surface Rock - Anhy. Dev @ 492' - 1.4°, @ 883' - 1.8°. MW 8.8, Vis 32, pH 10, Cl 600, Ca 5k, Solids 1%, DMC \$1,261, TMC \$1,261. Bit #1, Size 17 1⁄2", Make Ulterra, Type U616S (PDC), SN 34000, Jets 9-16's, In @ 80', Made 903' in 15 1⁄2 hrs. PP 700#, RPM 100, WOB 35k, PR 58.3. (Finish RU 2, Mix spud mud & PU BHA 4, Drlg 15 1⁄2, Circ 1, Trip 1, RS 1⁄2 hrs.) Remarks: Day 1. Weld on conductor. Mix spud mud & PU BHA. Spudded well w/Patterson/UTI #220 @ 12:00 P.M. MDT 07/22/17 (Notified Audrey, operator #2, w/TRRC). Drlg from 80' to 983'. Circ sweep. TOO H. BHA: Bit, BS, Shock Sub, Teledrift, 8" DC, IBS, 2-8" DC's, XO, 27-6" DC's. Total BHA: 943.49'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$374,007. CTDC \$429,007. CTWC \$429,007. AFEC \$7,123,000. (SN/DPB/JN)
JUL 24 2017	983' (0'). Operation: Testing BOPE. Formation: Anhy. MW 10.0, Vis 29, pH 10, Cl 160k, Ca 450, Solids 1%, DMC \$2,604, TMC \$3,865. Bit #1, Size 17 1⁄2", Make Ulterra, Type U616S (PDC), SN 34000, Jets 9-16's, In @ 80', Out @ 983', Made 903' in 15 1⁄2 hrs. (Trip 2, Cut off conductor 2, Run csg 3 1⁄2, Circ 1, Cmt 2 1⁄2, WOC 8, Testing BOPE 5 hrs.) Remarks: Day 2. Continue TOO H. Cut off conductor. Held safety meeting. RU Bull Rogers & run 13 3⁄8" csg. Circ csg capacity. RU BJ Services and cmt. WOC. Held safety meeting. NU BOPE w/Man Welding & test. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$103,009. CTDC \$532,016. CTWC \$532,016. AFEC \$7,123,000. (SN/DBP/JN)
	<div>1Weatherford TPGS0.65'</div> <div>113 3⁄8" 54.5# J55 ST&C Csg45.12'</div> <div>1Weatherford Float Collar1.65'</div>

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DATE	DAILY REPORTS
	<div><div>20</div><div>13 3⁄8" 54.5# J55 ST&C Csg</div><div>885.38'</div></div> <div><div>1</div><div>13 3⁄8" 54.5# J55 ST&C Pup Jt</div><div>10.05'</div></div> <div><div>1</div><div>13 3⁄8" Landing tool</div><div>33.48'</div></div> <div><div>Total</div><div>976.33'</div></div> <div><div>Less above KB</div><div>3.33'</div></div> <div><div>Csg set @</div><div>973.00'</div></div> <div>(Note: Received 24 jts of 13 3⁄8" 54.5# J55 ST&C csg (1063.25' T-off) from WB Supply - Manufactured by Nexsteel. Returned 3 jts of 13 3⁄8" 54.5# J55 ST&C csg (132.75' T-off) to WB Supply for credit.)</div> <div>Held safety meeting. Pumped 30 bbls FW spacer. BJ Services cmt w/600 sks Class C w/3% Gel & 2% CaCl₂ (yd 1.73 cuft/sk @ 13.5 PPG). Tail w/200 sks Class C w/2% CaCl₂ (yd 1.34 cuft/sk @ 14.8 PPG). Displace w/144 bbls BW. Plug down @ 5:00 P.M. MDT 07/24/17. Circ 162 sks of cmt to the pit. (Notified Audrey, operator #2, with TRRC but did not witness.)</div>
JUL 25 2017	983' (0'). Operation: TIH w/dir tools. Formation: Anhy. MW 10.0, Vis 29, pH 10, Cl 180k, Ca 2000, Solids <1%, DMC \$1,261, TMC \$5,126. Bit #2, Size 12 1⁄4", Make Ulterra, Type U616S (PDC), SN 33912, Jets 9-16's, In @ 983', Made 0' in 0 hrs. (NU BOPE 2 3⁄4, Test BOPE 5 3⁄4, Replace rams 9, Install wear bushing 1 1⁄2, PU dir tools & test 3 1⁄2, Trip 1 1⁄2 hrs.) Remarks: Day 3. Finish NU BOPE & test. Variable pipe rams would not test. Replaced rams. Tested BOPE to 5000# high/250# low & Annular to 3500# high/250# low. Tested standpipe & mud lines to the pumps to 5000#. Install wear bushing. PU dir tools & test. TIH. BHA: Bit, Stryker 0.16 rpg 1.5° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 978.58'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$92,167. CTDC \$624,183. CTWC \$624,183. AFEC \$7,123,000. (SN/DPB/JN)
JUL 26 2017	2973' (1990'). Operation: Drlg w/motor & MWD. Formation: Salt. MW 9.8, Vis 29, pH 10, Cl 160k, Ca 3600, Solids <1%, DMC \$0, TMC \$5,126. Bit #2, Size 12 1⁄4", Make Ulterra, Type U616S (PDC), SN 33912, Jets 9-16's, In @ 983', Made 1990' in 13 hrs. PP 3300#, RPM 55/121, WOB 35k, PR 153.1. (Drlg 13, Surv 5 3⁄4, Drlg plug, float & cmt 1 1⁄2, Test csg 1⁄2, RR 2, FIT test 1⁄4, Install rot head rubber 1⁄2, RS 1⁄2 hrs.) Remarks: Day 4. Replace swivel packing. At 8:00 A.M. MDT 07/25/17, tested csg to 1500# for 30 mins, held OK. Drlg plug, float & cmt. Drlg from 983' to 1002' w/survey. FIT test to 10.0 PPG EMW. Drlg from 1002' to 1062' w/survey. Install rotating head rubber. Drlg from 1062' to 2973' w/surveys & RS. BHA: Bit, Stryker 0.16 rpg 1.5° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 978.58'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$41,712. CTDC \$665,895. CTWC \$665,895. AFEC \$7,123,000. (SN/DPB/JN)
JUL 27 2017	4489' (1516'). Operation: Drlg w/motor & MWD. Formation: Salt. Dev @ 2734' - 1.3°, @ 3207' - 1.4°, @ 3681' - 1.3°, @ 4060' - 2.5°, @ 4344' - 1.3°. MW 9.9, Vis 29, pH 10, Cl 180k, Ca 3200, Solids <1%, DMC \$0, TMC \$5,126. Bit #2, Size 12 1⁄4", Make Ulterra, Type U616S (PDC), SN 33912, Jets 9-16's, In @ 983', Made 3506' in 31 1⁄2 hrs. PP 3400#, RPM 55/121, WOB 35k, PR 81.9. (Drlg 18 1⁄2, Surv 4 1⁄2, RS 1⁄2, BOPE & H ₂ S drills 1⁄2 hrs.) Remarks: Day 5. Drlg from 2943' to 4489' w/surveys, RS, BOPE & H ₂ S drills. BHA: Bit, Stryker 0.16 rpg 1.5° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 978.58'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$58,274. CTDC \$724,169. CTWC \$724,169. AFEC \$7,123,000. (SN/DPB/LJ)

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JUL 28 2017	5090' (601'). Operation: Running 9 5/8" csg. Formation: Salt. Dev @ 4723' - 2.1°, @ 5040' - 1.0°. MW 10.0, Vis 29, pH 10, Cl 180k, Ca 3200, Solids 1%, DMC \$0, TMC \$5,126. Bit #2, Size 12 1/4", Make Ulterra, Type U616S (PDC), SN 33912, Jets 9-16's, In @ 983', Out @ 5090', Made 4107' in 39 1/2 hrs. PP 3400#, RPM 55/121, WOB 35k, PR 75.1. (Drlg 8, Surv 2, RS 1/2, Circ 2, Trip 6 1/2, Pull wear bushing 3/4, Run csg 4 1/4 hrs.) Remarks: Day 6. Drlg from 4489' to 5090' w/surveys & RS. Circ sweep. TOOH. Pull wear bushing. Held safety meeting. RU Bull Rogers & run 9 5/8" csg. BHA: Bit, Stryker 0.16 rpg 1.5° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 978.58'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$59,269. CTDC \$783,438. CTWC \$783,438. AFEC \$7,123,000. (JRH/LJ)																											
JUL 29 2017	5244' (154'). Operation: Drlg w/motor & MWD. Formation: Lime - Dolo. MW 8.4, Vis 28, pH 10, Cl 3000, Ca 3200, Solids <1%, DMC \$2,205, TMC \$7,331. Bit #3, Size 8 3/4", Make STC, Type Z619 (PDC), SN JN0768, Jets 6-16's, In @ 5090', Made 154' in 2 1/2 hrs. PP 3400#, RPM 55/135, WOB 30k, PR 61.6. (Drlg 2 1/2, Circ 2 1/4, Trip 2, Run csg 2 1/4, Cmt 5, WOC 8, Drlg plug, float & cmt 1 1/4, Test csg 1/2, FIT test 1/4 hrs.) Remarks: Day 7. Finish running 9 5/8" csg. Circ btms up. Set Cameron mandrel hanger through BOP w/150k#. RU BJ & cmt. WOC. Set & test pack-off to 5000#. TIH. At 1:30 A.M. MDT 07/29/17, tested csg to 1500# for 30 mins, held OK. Drlg plug, float & cmt. Drlg from 5090' to 5100'. FIT test to 9.5 PPG MWE. Drlg from 5100' to 5244'. BHA: Bit, Stryker 0.28 rpg 2.1° adj mtr, UBHO, Slick NMDC, XO, 27-6" DC's, XO. Total BHA: 881.47'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$250,274. CTDC \$1,033,712. CTWC \$1,033,712. AFEC \$7,123,000. (JRH/LJ) <table><tr><td>1</td><td>Weatherford Float Shoe</td><td>1.64'</td></tr><tr><td>1</td><td>9 5/8" 40# N80 LT&C Csg</td><td>40.90'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.55'</td></tr><tr><td>122</td><td>9 5/8" 40# N80 LT&C Csg</td><td>4997.04'</td></tr><tr><td>1</td><td>9 5/8" 40# N80 LT&C Csg Pup Jt</td><td>5.40'</td></tr><tr><td>1</td><td>9 5/8" Landing Tool</td><td>34.95'</td></tr><tr><td></td><td>Total</td><td>5081.48'</td></tr><tr><td></td><td>Less above KB</td><td>5.48'</td></tr><tr><td></td><td>Csg set @</td><td>5076.00'</td></tr></table> <p>(Note: Received 128 jts of 9 5/8" 40# N80 LT&C csg (5245.90' T-off) from WB Supply - Manufactured by Nexsteel. Returned 5 jts of 9 5/8" 40# N80 LT&C csg (207.96' T-off) to WB Supply for credit.)</p> <p>Held safety meeting. Pumped 30 bbls FW spacer. BJ Services cmt w/1250 sks Lite Class C (35:65:4) w/2% SMS, 1/8#/sk LCM, 5% Salt, 3#/sk KolSeal & 0.6% Retarder (yd @ 1.89 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 @ 3:30 P.M. MDT 07/28/17. Circ 300 sks of cmt to the pit. (Notified Lewisha, operator #18, with TRRC but did not witness.)</p>	1	Weatherford Float Shoe	1.64'	1	9 5/8" 40# N80 LT&C Csg	40.90'	1	Weatherford Float Collar	1.55'	122	9 5/8" 40# N80 LT&C Csg	4997.04'	1	9 5/8" 40# N80 LT&C Csg Pup Jt	5.40'	1	9 5/8" Landing Tool	34.95'		Total	5081.48'		Less above KB	5.48'		Csg set @	5076.00'
1	Weatherford Float Shoe	1.64'																										
1	9 5/8" 40# N80 LT&C Csg	40.90'																										
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	Total	5081.48'																										
	Less above KB	5.48'																										
	Csg set @	5076.00'																										
JUL 30 2017	7580' (2336'). Operation: Drlg w/motor & MWD. Formation: Shale - Lime - Sand. Dev @ 5197' - 2.0°, @ 5481' - 4.8°, @ 5765' - 2.8°, @ 6049' - 3.5°, @ 7280' - 3.4°. MW 8.5, Vis 29, pH 10, Cl 50k, Ca 4000, Solids <1%, DMC \$184, TMC \$7,515. Bit #3, Size 8 3/4", Make STC, Type Z619 (PDC), SN JN0768, Jets 6-16's, In @ 5090', Made 2490' in 24 3/4 hrs. PP 3400#, RPM 45/164, WOB 30k, PR 105.0. (Drlg 22 1/4, Surv 1 1/4, RS 1/2 hrs.) Remarks: Day 8. Drlg from 5244' to 7580' w/surveys & RS. BHA: Bit, Stryker 0.28 rpg 2.1° adj mtr, UBHO, Slick NMDC, XO, 27-6" DC's, XO. Total BHA: 881.47'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$45,527. CTDC \$1,079,239. CTWC \$1,079,239. AFEC \$7,123,000. (PN/JRH/LJ)																											

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Lease	University B21 8		Well No	#W101CN	Location	185' FNL & 1660' FWL	
County	Winkler	ST TX	Section		TwtnShp		Rng
Section	8	Blk 21	Survey				
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DATE	DAILY REPORTS
JUL 31 2017	8938' (1358'). Operation: Drlg w/motor & MWD. Formation: Sand - Lime - Shale. Dev @ 7564' - 4.0°, @ 8134' - 4.1°, @ 8702' - 4.4°. MW 8.9, Vis 28, pH 10, Cl 50k, Ca 4000, Solids <1%, DMC \$270, TMC \$7,785. Bit #3, Size 8 ¾", Make STC, Type Z619, SN JN0768, Jets 6-16's, In @ 5090', Made 3848' in 47 hrs. PP 3400#, RPM 45/164, WOB 40k, PR 61.0. (Drlg 22 ¼, Surv 1 ¼, RS ½ hrs.) Remarks: Day 9. Drlg from 7580' to 8938' w/surveys & RS. BHA: Bit, Stryker 0.28 rpg 2.1° adj mtr, UBHO, NMDC, XO, 27-6" DC's, XO. Total BHA: 881.47'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$41,199. CTDC \$1,120,438. CTWC \$1,120,438. AFEC \$7,123,000. (PN/JRH/LJ)
AUG 01 2017	9331' (393'). Operation: Drlg. Formation: Sand - Lime - Shale. Dev @ 9269' - 3.8°. MW 9.6, Vis 28, pH 10, Cl 110k, Ca 4000, Solids <1%, DMC \$0, TMC \$7,785. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JN0768, Jets 6-16's, In @ 5090', Out @ 9316, Made 4226' in 55 ¼ hrs. Bit #4, Size 8 ¾", Make STC, Type FH47HY, SN RJ2874, Jets 3-18's, In @ 9316', Made 15' in 1 ¼ hrs. PP 3400#, RPM 60, WOB 45k, PR 41.4. (Drlg 9 ½, Surv ½, RS ½, Trip 11, SD for weather 1, LD dir tools 1 ½ hrs.) Remarks: Day 10. Drlg from 8938' to 9316' w/surveys & RS. TOO H & LD dir tools. PU bit #4 & TIH. Drlg from 9316' to 9331'. BHA: Bit, Bit Sub, 27-6" DC's, XO. Total BHA: 821.71'. Encountered 70 BPH water flow @ 8500'. Flowing 20 BPH @ report time. EDCC \$0. CTCC \$0. EDDC \$40,550. CTDC \$1,160,988. CTWC \$1,160,988. AFEC \$7,123,000. (PN/JRH/JN)
AUG 02 2017	9808' (477'). Operation: Drlg. Formation: 70% Lime - 20% Sand - 10% Chert. MW 9.5, Vis 29, pH 10, Cl 160k, Ca 9600, Solids <1%, DMC \$1,771, TMC \$9,556. Bit #4, Size 8 ¾", Make STC, Type FH47HY, SN RJ2874, Jets 3-18's, In @ 9316', Made 492' in 24 ¾ hrs. PP 2850#, RPM 60, WOB 55k, PR 20.3. (Drlg 23 ½, RS ½ hrs.) Remarks: Day 11. Drlg from 9331' to 9808' w/RS. BHA: Bit, Bit Sub, 27-6" DC's, XO. Total BHA: 821.71'. Gaining 20 BPH. EDCC \$0. CTCC \$0. EDDC \$79,690. CTDC \$1,240,678. CTWC \$1,240,678. AFEC \$7,123,000. (PN/JN)
AUG 03 2017	10250' (442'). Operation: Drlg w/motor & MWD. Formation: 20% Lime - 20% Sand - 60% Silt. MW 9.5, Vis 29, pH 10, Cl 160k, Ca 9600, Solids <1%, DMC \$113, TMC \$9,669. Bit #4, Size 8 ¾", Make STC, Type FH47HY, SN RJ2874, Jets 3-18's, In @ 9316', Out @ 9888', Made 572' in 27 ¾ hrs. Bit #5, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8228, Jets 4-16's & 3-13's, In @ 9888', Made 362' in 6 ¼ hrs. PP 3450#, RPM 50/152, WOB 38k, PR 47.8. (Drlg 9 ¼, Surv 1 ¼, RS ½, Trip 11, BOPE & H2S drill ¼, PU dir tools & test 1 ¾ hrs.) Remarks: Day 12. Drlg from 9808' to 9888' w/BOPE & H2S drill. TOO H. PU dir tools & test. TIH to 9300'. Wash from 9300' to 9888' w/surveys. Drlg from 9888' to 10250'. BHA: Bit, Stryker 0.28 rpg 1.83° motor, UBHO, NMDC, XO, 27-6" DC's, XO. Total BHA: 881.10'. Gaining 20 BPH. EDCC \$0. CTCC \$0. EDDC \$62,495. CTDC \$1,303,173. CTWC \$1,303,173. AFEC \$7,123,000. (PN/JN)
AUG 04 2017	11528' (1278'). Operation: Drlg w/motor & MWD. Formation: Lime - Shale. Dev @ 10123' - 3.0°, @ 10598' - 2.7°, @ 11165' - 1.5°, @ 11354' - 2.4°. MW 9.6, Vis 29, pH 10, Cl 160k, Ca 18k, Solids <1%, DMC \$113, TMC \$9,782. Bit #5, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8228, Jets 4-16's & 3-13's, In @ 9888', Made 1640' in 26 hrs. PP 3450#, RPM 45/141, WOB 35k, PR 64.7. (Drlg 19 ¾, Surv 3 ½, RS ½, BOPE & H2S drill ¼ hrs.) Remarks: Day 13. Drlg from 10250' to 11528' w/surveys, BOPE & H2S drill. BHA: Bit, Stryker 0.28 rpg 1.83° motor, UBHO, NMDC, XO, 27-6" DC's, XO,XO. Total BHA: 884.15'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$68,123. CTDC \$1,371,296. CTWC \$1,371,296. AFEC \$7,123,000. (SN/DPB/JN)

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DATE	DAILY REPORTS
AUG 05 2017	11547' MD (19'). Operation: WO H2S service company. Formation: Lime - Shale. Dev @ 11481' - 2.4°. MW 9.6, Vis 29, pH 10, Cl 160k, Ca 18k, Solids <1%, DMC \$113, TMC \$9,895. Bit #5, Size 8 ¾", Make STC, Type MDSi713 (PDC), SN JM8228, Jets 4-16's & 3-13's, In @ 9888', Out @ 11528', Made 1640' in 26 hrs. Bit #6, Size 8 ¾", Make HTC, Type KM624 (PDC/bi-cone), SN 5270048, Jets 4-16's, In @ 11528', Made 19' in ½ hrs. PP 3450#, RPM 0/141, WOB 50k, PR 38.0. (Drlg ½ (Rot 0 & Slide ½), Circ 1 ¾, Trip 14 ¾, RS ½, Cut drlg line 1, PU dir tools & test 2, Shut in 3 ½ hrs.) Remarks: Day 14. Circ sweep. TOO. PU curve assmbly & test. TIH. Cut drlg line. RS. Continue TIH. Wash to btm. Drlg from 11528' to 11547' MD. While circulating btms up gas, H2S alarms indicated 120 PPM gas. PU off btm & shut well in. WO ASI tester. BHA: Bit, Stryker 0.28 rpg 2.25° motor, UBHO, NMDC, XO, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO. Total BHA: 1988.37'. Gaining 20 BPH during TOO. EDCC \$0. CTCC \$0. EDDC \$74,763. CTDC \$1,446,059. CTWC \$1,446,059. AFEC \$7,123,000. (SN/DPB/JN)
AUG 06 2017	12320' MD (773'). Operation: Circ sweep. Formation: 80% Shale - 20% Lime. MW 9.6, Vis 34, pH 10, Cl 160k, Ca 18k, Solids <1%, DMC \$113, TMC \$10,008. Bit #6, Size 8 ¾", Make HTC, Type KM624 (PDC/bi-cone), SN 5270048, Jets 4-16's, In @ 11528', Made 792' in 15 hrs. PP 3500#, RPM 35/148, WOB 35k, PR 53.3. (Drlg 14 ½ (Rot 2 ¼ & Slide 12 ¼), Surv 6, Circ 3, Shut in ½ hrs.) Remarks: Day 15. WO ASI to test for H2S. Circ bottoms up. No H2S detected. Continue drlg from 11547' to 12320' MD w/surveys. Circ sweep. BHA: Bit, Stryker 0.28 rpg 2.25° motor, UBHO, NMDC, XO, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO. Total BHA: 1988.37'. Gaining 12 BPH. BG 1625 units. CG 1800 units. EDCC \$0. CTCC \$0. EDDC \$85,618. CTDC \$1,531,677. CTWC \$1,531,677. AFEC \$7,123,000. (SN/DPB/JN) 11481' MD (11469.5' TVD) 2.4° Inc @ 195.9° Azm 11542' MD (11530.4' TVD) 5.0° Inc @ 169.7° Azm 11573' MD (11561.1' TVD) 9.4° Inc @ 159.9° Azm 11605' MD (11592.6' TVD) 11.6° Inc @ 157.8° Azm 11636' MD (11622.8' TVD) 14.7° Inc @ 156.5° Azm 11668' MD (11653.5' TVD) 17.1° Inc @ 156.2° Azm 11700' MD (11684.0' TVD) 19.1° Inc @ 159.2° Azm 11731' MD (11713.1' TVD) 21.3° Inc @ 162.8° Azm 11763' MD (11742.7' TVD) 23.3° Inc @ 164.6° Azm 11795' MD (11771.8' TVD) 25.9° Inc @ 165.5° Azm 11827' MD (11800.1' TVD) 29.5° Inc @ 164.6° Azm 11858' MD (11826.6' TVD) 33.1° Inc @ 163.8° Azm 11890' MD (11853.0' TVD) 35.3° Inc @ 163.0° Azm 11921' MD (11878.0' TVD) 37.1° Inc @ 163.8° Azm 11953' MD (11903.2' TVD) 39.3° Inc @ 164.4° Azm 11985' MD (11927.5' TVD) 41.9° Inc @ 164.3° Azm 12016' MD (11949.8' TVD) 45.8° Inc @ 163.8° Azm 12048' MD (11971.4' TVD) 49.4° Inc @ 162.8° Azm 12080' MD (11991.6' TVD) 52.4° Inc @ 162.5° Azm 12111' MD (12009.7' TVD) 55.9° Inc @ 162.8° Azm 12143' MD (12027.0' TVD) 58.8° Inc @ 163.5° Azm 12174' MD (12041.8' TVD) 64.0° Inc @ 164.5° Azm 12206' MD (12054.1' TVD) 70.9° Inc @ 165.3° Azm 12238' MD (12063.4' TVD) 75.5° Inc @ 164.7° Azm 12275' MD (12071.5' TVD) 79.0° Inc @ 164.5° Azm Projected to the bit @ 12320' MD (12079.5' TVD) 80.6° Inc @ 164.7° Azm

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

Lease

University B21 8

Well No

#W101CN

Location

185' FNL & 1660' FWL

County

Winkler

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API #

DATE	DAILY REPORTS																																													
AUG 07 2017	<p>12320' MD (0'). Operation: Repair top drive. Formation: Shale - Lime. MW 9.7, Vis 34, pH 11, Cl 165k, Ca 16k, Solids <1%, DMC \$9,908, TMC \$19,916. Bit #6, Size 8 ¾", Make HTC, Type KM624 (PDC/bi-cone), SN 5270048, Jets 4-16's, In @ 11528', Out @ 12320', Made 792' in 15 hrs. (Circ ½, Trip 6 ¼, LD dir tools ¾, RS ½, Pull wear bushing ½, Run csg 1 ½, RR 14 hrs.)</p> <p>Remarks: Day 16. Circ sweep. TOO H & LD dir tools. RS. Pull wear bushing. Held safety meeting. RU Bull Rogers & run 7" csg w/torque turn. Repair service loop on top drive. Gaining 12 BPH while TOO H. EDCC \$0. CTCC \$0. EDDC \$56,786. CTDC \$1,588,463. CTWC \$1,588,463. AFEC \$7,123,000. (SN/DPB/JN)</p>																																													
AUG 08 2017	<p>12320' MD (0'). Operation: Circ & spot kill pill. Formation: Shale - Lime. MW 9.7, Vis 32, pH 10, Cl 153k, Ca 16k, Solids <1%, DMC \$2,346, TMC \$22,262. Bit #4 (rerun), Size 8 ¾", Make STC, Type F47HY, SN RJ2874, Jets 3-18's, In @ 12320', Made 0' in 0 hrs. PP 350#. (RR 4 ½, Trip 11 ¾, Circ 7 ¾ hrs.)</p> <p>Remarks: Day 17. Finish repairing top drive. PU bit & TIH. Circ gas out @ 2750', 6924' & 10190' MD. Continue TIH to 12320' MD w/no fill. Circ sweep. TOO H to 11375' MD. Spot 11.0# kill pill. Gaining 40 BPH. EDCC \$0. CTCC \$0. EDDC \$44,063. CTDC \$1,632,526. CTWC \$1,632,526. AFEC \$7,123,000. (SN/DPB/JN)</p>																																													
AUG 09 2017	<p>12320' MD (0'). Operation: Running 7" csg. Formation: Shale - Lime. MW 9.7, Vis 32, pH 10, Cl 153k, Ca 16k, Solids <1%, DMC \$2,346, TMC \$24,608. Bit #4 (rerun), Size 8 ¾", Make STC, Type F47HY, SN RJ2874, Jets 3-18's, In @ 12320', Out @ 12320'. PP 350#. (Circ 5 ¼, Trip 5, Pull wear bushing ¾, Run csg 12 ½, RS ½ hrs.)</p> <p>Remarks: Day 18. Circ & spot 200 bbl of 11.0# mud. TOO H to 8500'. Circ btms up w/no gas to surface. Continue TOO H. RS. Held safety meeting. RU Bull Rogers & run 7" csg w/torque turn. No flow after spotting 11.0# mud. EDCC \$0. CTCC \$0. EDDC \$46,500. CTDC \$1,679,026. CTWC \$1,679,026. AFEC \$7,123,000. (SN/DPB/JN)</p>																																													
AUG 10 2017	<p>12320' MD (0'). Operation: LD DC's & DP. Formation: Shale - Lime. MW 9.7, Vis 32, pH 10, Cl 153k, Ca 16k, Solids <1%, DMC \$2,929, TMC \$27,537. (Run csg 6, Circ 1 ¼, Cmt 5 ¾, WOC 8, LD DP & DC's 3 hrs.)</p> <p>Remarks: Day 19. Continue running 7" csg. RU BJ Services & cmt. WOC. LD 5" DP & 6" DC's. EDCC \$0. CTCC \$0. EDDC \$436,068. CTDC \$2,115,094. CTWC \$2,115,094. AFEC \$7,123,000. (SN/DPB/JN)</p> <table><tr><td>1</td><td>Weatherford Float Shoe</td><td>1.55'</td></tr><tr><td>1</td><td>7" 29# P110 LT&C Csg</td><td>45.95'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.22'</td></tr><tr><td>113</td><td>7" 29# P110 LT&C Csg</td><td>5222.04'</td></tr><tr><td>13</td><td>7" 29# P110 LT&C Bond Coated Csg</td><td>542.72'</td></tr><tr><td>1</td><td>Weatherford ECP set @ 6470'</td><td>24.70'</td></tr><tr><td>1</td><td>7" 29# P110 LT&C Bond Coated Csg</td><td>38.11'</td></tr><tr><td>1</td><td>Weatherford DV Tool @ 6409'</td><td>2.22'</td></tr><tr><td>30</td><td>7" 29# P110 LT&C Bond Coated Csg</td><td>1171.59'</td></tr><tr><td>113</td><td>7" 29# P110 LT&C Csg</td><td>5204.53'</td></tr><tr><td>1</td><td>7" 29# HCP110LT&C pup jt csg</td><td>5.47'</td></tr><tr><td>1</td><td>7" Landing tool</td><td>32.60'</td></tr><tr><td></td><td>Total</td><td>12292.70'</td></tr><tr><td></td><td>Less above KB</td><td>4.70'</td></tr><tr><td></td><td>Csg set @</td><td>12288.00'</td></tr></table> <p>(Note: Received 231 jts of 7" 29# HCP110 LT&C csg (10658.34' T-off) & 48 jts of 7" 29# HCP110 LT&C Bondcoat csg (1908.91' T-off) from WB Supply - Manufactured by US Steel. Returned 4 jts of 7" 29# HCP110 LT&C csg (185.82' T-off) & 4 jts of 7" 29# HCP110 LT&C Bondcoat csg (156.49) to Smith Bros for credit.)</p>	1	Weatherford Float Shoe	1.55'	1	7" 29# P110 LT&C Csg	45.95'	1	Weatherford Float Collar	1.22'	113	7" 29# P110 LT&C Csg	5222.04'	13	7" 29# P110 LT&C Bond Coated Csg	542.72'	1	Weatherford ECP set @ 6470'	24.70'	1	7" 29# P110 LT&C Bond Coated Csg	38.11'	1	Weatherford DV Tool @ 6409'	2.22'	30	7" 29# P110 LT&C Bond Coated Csg	1171.59'	113	7" 29# P110 LT&C Csg	5204.53'	1	7" 29# HCP110LT&C pup jt csg	5.47'	1	7" Landing tool	32.60'		Total	12292.70'		Less above KB	4.70'		Csg set @	12288.00'
1	Weatherford Float Shoe	1.55'																																												
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MEWBOURNE OIL COMPANY
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

LeaseUniversity B21 8Well No#W101CNLocation185' FNL & 1660' FWL

CountyWinklerSTTXSectionTwtnShpRng

Section8Blk21Survey

FilenamePage7

API #

DATE	DAILY REPORTS
AUG 10 2017	<p>(CONT'D)</p> <p>Held safety meeting. Pumped 20 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, 0.6% 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/454 bbls FW. Plug down @ 5:30 P.M. MDT 08/09/17. Pressured up to 3400# to set ECP. Tested csg to 7500# for 5 min, held OK. Dropped bomb & opened DV tool w/740#. Did not circ 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/0.4% Fluid Loss, 0.5% SMS & 0.2% Defoamer (yd @ 1.24 cuft/sk @ 14.2 PPG). Displaced w/238 bbls FW. Plug down @ 7:58 P.M. MDT 08/09/17. Did not circ cmt. Slow rate lift pressure 600# @ 3 BPM. Closed DV tool & tested w/5000#. (Notified Sarah w/TRRC but did not witness.)</p>
AUG 11 2017	<p>12320' MD (0'). Operation: Replacing Annular element. Formation: Shale - Lime. DMC \$115, TMC \$27,652. (LD DP & DC's 5 1/4, Test BOPE 13 1/2, Replace Annular element 5 1/4 hrs.)</p> <p>Remarks: Day 20. Finish LD 5" DP & 6" DC's. Held safety meeting. RU Man Welding & attempt to test BOPE. Replace test plug & resume testing. Annular would not test. Replace Annular element. EDCC \$0. CTCC \$0. EDDC \$47,523. CTDC \$2,162,617. CTWC \$2,162,617. AFEC \$7,123,000. (JRH/PN/RM/JN)</p>
AUG 12 2017	<p>12320' MD (0'). Operation: PU 4" DP. Formation: Shale - Lime. MW 13.4, Vis 89, HTHP 9, PV 33, YP 11, Gels 8/20, FC 2/32", Cl 32k, Adj solids 2.3%, Oil 66%, ES 360, DMC \$5,170, TMC \$32,822. Bit #8, Size 6 1/8", Make HTC, Type VGD28DX, SN 5246579, Jets 3-18's, In @ 12320', Out @ 12320'. Bit #9, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 32979, Jets 5-16's, In @ 12320', Made 0' in 0 hrs. PP 500#, RPM 50, WOB 5k. (Replace Annular element & test 6 3/4, RS 1, Install catch pan 1 3/4, Trip 11, Drlg DV tool 1, PU dir tools & test 1 1/2, PU DP 1 hrs.)</p> <p>Remarks: Day 21. Finish replacing Annular element. Held safety meeting. Tested BOPE to 5000# high/250# low & Annular to 3500# high/250# low w/Man Welding. Tested standpipe & mud lines to the pumps to 5000#. RS. Install catch pan. TIH & drill DV tool @ 6409' MD. TOOH. PU dir tools & test. TIH. PU DP. BHA: Bit, Baker 0.49 rpg 1.83° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 1-4" HWDP, Reamer, 5-4" HWDP, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2216.81'. EDCC \$0. CTCC \$0. EDDC \$63,927. CTDC \$2,226,544. CTWC \$2,226,544. AFEC \$7,123,000. (PN/JRH/RM/LJ)</p>
AUG 13 2017	<p>13320' MD (1000'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.9, Vis 80, HTHP 9, PV 32, YP 15, Gels 8/20, FC 2/32", Cl 32k, Adj solids 3.8%, Oil 65%, ES 360, DMC \$105, TMC \$32,927. Bit #9, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 32979, Jets 5-16's, In @ 12320', Made 1000' in 15 hrs. PP 4750#, RPM 60/127, WOB 30k, PR 66.7. (PU DP 1, Test csg 1/2, Drlg plug, float & cmt 1 1/2, Displace 2 1/2, Drlg 15 (Rot 11 & Slide 4), Surv 2 3/4, RS 1/2, FIT test 1/4 hrs.)</p> <p>Remarks: Day 22. Finish PU 4" DP. At 6:30 A.M. MDT 08/12/17, tested csg to 5000# for 30 mins, held OK. Drlg plug, float & cmt. Displace 7" csg w/OBM. Drlg from 12320' to 12325' MD. FIT test to EMW of 14.5 PPG. Drlg from 12325' to 13320' MD w/surveys & RS. Last survey @ 13155' MD (12098.3' TVD) 89.5° Inc @ 165.1° Azm. Total lateral open hole @ 1032' of 4581'. BHA: Bit, Baker 0.49 rpg 1.83° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 1-4" HWDP, Reamer, 5-4" HWDP, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2216.81'. No fluid lost or gained. BG 200 units. CG 850 units. EDCC \$0. CTCC \$0. EDDC \$52,784. CTDC \$2,279,328. CTWC \$2,279,328. AFEC \$7,123,000. (PN/JRH/RM/LJ)</p>

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

Lease	University B21 8		Well No	#W101CN	Location	185' FNL & 1660' FWL	
County	Winkler	ST TX	Section		TwNShp		Rng
Section	8	Blk 21	Survey				
Filename							Page 8
API #							

DATE	DAILY REPORTS
AUG 14 2017	14436' MD (1116'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 14.3, Vis 99, HTHP 9.8, PV 44, YP 11, Gels 6/18, FC 2/32", Cl 34k, Adj solids 3.8%, Oil 64%, ES 366, DMC \$21,755, TMC \$54,682. Bit #9, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 32979, Jets 5-16's, In @ 12320', Made 2116' in 30 1/4 hrs. PP 5400#, RPM 50/127, WOB 30k, PR 73.2. (Drlg 15 1/4 (Rot 9 1/4 & Slide 6), Surv 3, BOPE & H2S drill 1/4, H2S shut in 5 1/2 hrs.) Remarks: Day 23. Drlg from 13320' to 14306' MD w/surveys, BOPE & H2S drill. Shut well in due to H2S alarm. WO service company to test for H2S. No H2S was detected. Found faulty sensor. Replace sensor. Continue drlg from 14306' to 14436' MD. Last survey @ 14291' MD (12088.4' TVD) 91.9° Inc @ 164.0° Azm. Total lateral open hole @ 2148' of 4581'. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 1-4" HWDP, Reamer, 5-4" HWDP, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2216.81'. No fluid lost or gained. BG 100 units. CG 300 units. EDCC \$0. CTCC \$0. EDDC \$85,990. CTDC \$2,365,318. CTWC \$2,365,318. AFEC \$7,123,000. (JRH/PN/RM/LJ)
AUG 15 2017	15509' MD (1073'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 14.4, Vis 78, HTHP 8.4, PV 42, YP 15, Gels 7/19, FC 2/32", Cl 34k, Adj solids 5.7%, Oil 66%, ES 388, DMC \$6,717, TMC \$61,399. Bit #9, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 32979, Jets 5-16's, In @ 12320', Made 3189' in 51 hrs. PP 5400#, RPM 60/127, WOB 30k, PR 51.7. (Drlg 20 3/4 (Rot 11 1/4 & Slide 9 1/2), Surv 3, RS 1/4 hrs.) Remarks: Day 24. Drlg from 14436' to 15509' MD w/surveys & RS. Last survey @ 15426' MD (12079.2' TVD) 89.8° Inc @ 167.6° Azm. Total lateral open hole @ 3221' of 4581'. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 1-4" HWDP, Reamer, 5-4" HWDP, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2216.81'. No fluid lost or gained. BG 220 units. CG 330 units. EDCC \$0. CTCC \$0. EDDC \$78,985. CTDC \$2,444,303. CTWC \$2,444,303. AFEC \$7,123,000. (PN/WRM/JN)
AUG 16 2017	16611' MD (1102'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 14.4, Vis 83, HTHP 8.2, PV 44, YP 12, Gels 7/20, FC 2/32", Cl 34k, Adj solids 5.4%, Oil 68%, ES 399, DMC \$3,123, TMC \$64,522. Bit #9, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 32979, Jets 5-16's, In @ 12320', Made 4291' in 70 1/4 hrs. PP 5500#, RPM 55/127, WOB 30k, PR 57.2. (Drlg 19 1/4 (Rot 15 & Slide 4 1/4), Surv 2 3/4, RS 1/2, Re-log 1/2, Troubleshoot MWD 1 hrs.) Remarks: Day 25. Drlg from 15509' to 16517' MD w/surveys & RS. Re-log from 16492' to 16517' MD. Troubleshoot MWD. Continue drlg from 16517' to 16611' MD. Last survey @ 16466' MD (12070.2' TVD) 90.7° Inc @ 165.2° Azm. Total lateral open hole @ 4323' of 4581'. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 1-4" HWDP, Reamer, 5-4" HWDP, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2216.81'. No fluid lost or gained. BG 140 units. CG 320 units. EDCC \$0. CTCC \$0. EDDC \$59,400. CTDC \$2,503,703. CTWC \$2,503,703. AFEC \$7,123,000. (PN/WRM/JN)
AUG 17 2017	16870' MD (259'). Operation: Running 4 1/2" liner. Formation: 100% Shale. MW 14.4, Vis 72, HTHP 8.2, PV 44, YP 12, Gels 7/20, FC 2/32", Cl 34k, Adj solids 5.4%, Oil 68%, ES 399, DMC \$3,123, TMC \$67,645. Bit #9, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 32979, Jets 5-16's, In @ 12320', Out @ 16870', Made 4550' in 73 hrs. PP 5500#, RPM 55/127, WOB 30k, PR 94.2. (Drlg 2 3/4 (Rot 2 3/4 & Slide 0), Surv 1, Circ 3 3/4, Trip 13 1/2, LD dir tools 1 1/2, Run liner 1 1/2 hrs.) Remarks: Day 26. Drlg from 16611' to 16870' MD w/surveys. TD well @ 9:45 A.M. MDT 08/16/17. Circ sweep. TOOH. Work tight spot @ 15900'. Continue short trip to 12288' MD w/no drag. TIH to 16870' MD w/no drag or fill. Circ sweep. TOOH. Held safety meeting. RU Bull Rogers & run 4 1/2" liner w/torque turn. Last survey @ 16819' MD (12077.4' TVD) 87.2° Inc @ 164.2° Azm. Projected to the bit @ 16870' MD (12079.9' TVD) 87.2° Inc @ 164.2° Azm. Total lateral open hole @ 4582'. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 1-4" HWDP, Reamer, 5-4" HWDP, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2216.81'. No fluid lost or gained. BG 140 units. CG 320 units.

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

Lease	University B21 8		Well No	#W101CN	Location	185' FNL & 1660' FWL	
County	Winkler	ST TX	Section		TwnShp		Rng
Section	8	Blk 21	Survey				
Filename						Page	9
API #							

DATE	DAILY REPORTS																											
AUG 17 – CONT	TG 1700 units. EDCC \$0. CTCC \$0. EDDC \$58,387. CTDC \$2,562,090. CTWC \$2,562,090. AFEC \$7,123,000. (PN/WRM/JN)																											
AUG 18 2017	<p>16870' MD (0'). Operation: LD 4" DP. Formation: Shale. MW 14.7, Vis 79, HTHP 8.2, PV 44, YP 12, Gels 7/20, FC 2/32", Cl 34k, Adj solids 5.4%, Oil 68%, ES 399, DMC \$343, TMC \$67,988. (Run liner 12 ¼, BOPE & H₂S drill ½, Circ 2, Set/test hanger 1 ½, Cmt 4, Displace 1 ½, Test csg ½, LD DP 1 ¾ hrs.) Remarks: Day 27. Finish running 4 ½" liner. Circ. RS. Cmt liner w/BJ Services. LD 4" DP. No fluid lost or gained. EDCC \$123,131. CTCC \$123,131. EDDC \$33,130. CTDC \$2,595,220. CTWC \$2,718,351. AFEC \$7,123,000. (SN/DPB/JN)</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>1.33'</td></tr><tr><td>1</td><td>4 ½" 13.5# P110 LT&C Csg Pup Jt</td><td>10.07'</td></tr><tr><td>1</td><td>Weatherford Landing Collar</td><td>1.89'</td></tr><tr><td>124</td><td>4 ½" 13.5# P110 LT&C Csg</td><td>5271.37'</td></tr><tr><td>1</td><td>Weatherford Liner Hanger Assy set @ 11518'</td><td>27.14'</td></tr><tr><td></td><td>Total</td><td>5313.31'</td></tr><tr><td></td><td>Top of liner @ (MD)</td><td>11501.69'</td></tr><tr><td></td><td>End of liner set @ (MD)</td><td>16815.00'</td></tr></table> <p>(Note: Received 141 jts of 4 ½" 13.5# P110 LT&C csg (5998.62' T-off) & 1 pup jt (10.07' T-off) from WB Supply - Manufactured by Koppel. Returned 17 jts of 4 ½" 13.5# P110 LT&C csg (727.45' T-off) to WB Supply for credit.)</p> <p>Held safety meeting. Drop 1 ½" ball & set liner hanger w/2500#. Pushed w/44k# to test liner hanger. Pumped 30 bbls Ultra Flush spacer. BJ cmt w/250 sks Lite Class C (60:40:0) w/10 #/sk Silica Fume, 0.7% Retarder, 0.65% Suspension agent, 4% Enhancer, 0.9% SMS, 1.2% Fluid loss latex & 0.2% Defoamer (yd @ 2.86 cuft/sk @ 11.2 PPG). Released dart. Displaced w/204 bbls BW. Plug down @ 1:45 A.M. 08/18/17 MDT. Bump plug w/3700#. Set packer w/60k#. Released from liner. Displace 7" csg w/370 bbls BW. Circ 49 sks of cmt off of liner top to the pit. At 3:45 A.M. 08/18/17, tested liner top to 1500# for 30 min, held OK.</p>	1	Weatherford Float Shoe	1.51'	1	Weatherford Float Collar	1.33'	1	4 ½" 13.5# P110 LT&C Csg Pup Jt	10.07'	1	Weatherford Landing Collar	1.89'	124	4 ½" 13.5# P110 LT&C Csg	5271.37'	1	Weatherford Liner Hanger Assy set @ 11518'	27.14'		Total	5313.31'		Top of liner @ (MD)	11501.69'		End of liner set @ (MD)	16815.00'
1	Weatherford Float Shoe	1.51'																										
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	Total	5313.31'																										
	Top of liner @ (MD)	11501.69'																										
	End of liner set @ (MD)	16815.00'																										
AUG 19 2017	<p>16870' MD (0'). Operation: Rig released to move. Formation: Shale. DMC \$6,554, TMC \$74,542. (LDDP 15 ¼, RS ½, Repair iron roughneck 1, Pull wear bushing ¼, ND BOPE & install tbg spool 6, RD 1 hrs.) Remarks: Day 28. LD 4" DP. Repair ST-80. Continue LDDP. Pull wear bushing. ND BOPE & install Cameron 13 ⅝" 5k# x 7 1/16" 10k# tbg spool with capping flange. Tested pack-off to 5000#, held ok. Rig released to move @ 5:00 A.M. MST 08/19/17. RD. EDCC \$78,289. CTCC \$201,420. EDDC \$20,745. CTDC \$2,615,965. CTWC \$2,817,386. AFEC \$7,123,000. (SN/DPB/JN)</p>																											
AUG 20 2017	<p>Start MO Patterson/UTI #220 to Toro 36 B3CN State Com #1H with Wilbanks Trucking Services. EDCC \$0. CTCC \$201,420. EDDC \$0. CTDC \$2,615,965. CTWC \$2,817,386. AFEC \$7,123,000. (SN/DPB/JN)</p>																											
AUG 21 2017	<p>Continue MO Patterson/UTI #220 to Toro 36 B3CN State Com #1H with Wilbanks Trucking Services. EDCC \$0. CTCC \$201,420. EDDC \$0. CTDC \$2,615,965. CTWC \$2,817,386. AFEC \$7,123,000. (SN/DPB/JN)</p>																											
AUG 22 2017	<p>Finish MO Patterson/UTI #220. WO toe prep. Start filling frac pond. EDCC \$0. CTCC \$201,420. EDDC \$0. CTDC \$2,615,965. CTWC \$2,817,386. AFEC \$7,123,000. (SN/DPB/JN)</p>																											

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DATE	DAILY REPORTS
AUG 23 2017	SICP 0#. MIRU Guardian. ND 10k capping flange. NU 10k frac valve (MOC P-6) transferred from MOC stock @ Weatherford. Test frac valve to 8000# for 10 mins, held OK. RDMO Guardian. MIRU Renegade WL. RIH w/CCL, GR, CNL & CBL. Logged 11550' to surface. Did not see top of cmt. SWI. RDMO Renegade WL. EDCC \$14,163. CTCC \$215,583. EDDC \$0. CTDC \$2,615,965. CTWC \$2,831,549. AFEC \$7,123,000. (KR)
AUG 24 2017	WO toe prep. Filling frac pond. EDCC \$0. CTCC \$215,583. EDDC \$0. CTDC \$2,615,965. CTWC \$2,831,549. AFEC \$7,123,000.
AUG 25 2017	SICP 0#. Back drag location & set anchors. MIRU Parker Energy pump truck. Loaded backside w/1 bbl & tested to 200# for 10 mins, held OK. RDMO Parker Energy pump truck. MIRU Viking 2 3⁄8" CT & TTS tools. Tested casing to 8000# for 20 mins, held OK. RIH w/3.75" positive insert mill, motor, agitator, hydroshock, hydraulic disconnect, jars, dual flapper, weld on connector & coil tbg to 14500'. Broke circulation w/3 BPM. Continue RIH & tagged PBTD @ 16800' . Pumped sweep & circulated hole clean. POOH. RIH w/6 Renegade TCP guns. Tagged PBTD & PU 75' & set guns on depth. Dropped 5⁄8" ball. Pumped 81 bbls & pressured to 5900#. Perforated Wolfcamp @ 16725' (1', 6 holes), 16740' (1', 6 holes), 16755' (1', 6 holes), 16770' (1', 6 holes), 16785' (1', 6 holes), 16800' (1', 6 holes) . POOH. RDMO Viking & TTS. EDCC \$65,158. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (DM/RJH/CC/KR)
AUG 28-29 2017	Filling frac pond. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000.
AUG 30-31 2017	Filling frac pond. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000.
SEPT 01-13 2017	Filling frac pond. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000.
SEPT 14 2017	Prep to frac 09/15/17. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000.
SEPT 15 2017	Prep to frac this P.M. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000.
SEPT 16 2017	SICP 3180#. Frac stage 1 (28 stages) @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (KM/DB/RS/RB/JB-C/TL-C/CG-C)
SEPT 17 2017	SICP 5450#. Frac stages 1 - 2 (28 stages). While WL stage 2, BHA became stuck. Could not move up or down. Worked BHA for 4 hrs. Pumped BHA off. POOH w/WL. Continue frac. Frac stage 3 @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (RS/TL-C/CG-C/RB-C)
SEPT 18 2017	SICP 5225#. Frac stages 3 - 6 (28 stages). Frac stage 7 @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (RS/TL-C/CG-C/RB-C)
SEPT 19 2017	SICP 5335#. Frac stages 7 - 10 (28 stages). SD due to weather (lightning) @ report time. Will WL stage 11 this A.M. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (RB/CC/MGW/JH/TL-C/CG-C/JB-C)

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SEPT 20 2017	SICP 5410#. Frac stages 11 - 13 (28 stages). Frac stage 14 @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (CC/RB/MGW/KR/JH/TL-C/CG-C)																																																																																
SEPT 21 2017	SICP 5460#. Frac stages 14 - 17 (28 stages). Frac stage 18 @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (KM/DB/RB/CC/TL-C/CM-C/RB-C)																																																																																
SEPT 22 2017	SICP 5460#. Frac stages 18 - 21 (28 stages). Frac stage 22 @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (KM/DB/RB/CC/TL-C/CM-C/RB-C)																																																																																
SEPT 23 2017	SICP 5250#. Frac stages 22 - 26 (28 stages). Frac stage 27 @ report time. EDCC \$0. CTCC \$276,241. EDDC \$0. CTDC \$2,615,965. CTWC \$2,892,206. AFEC \$7,123,000. (KM/DB/RB/CC/TL-C/CM-C/RB-C)																																																																																
SEPT 24 2017	<p>SICP 3180#. MIRU Halliburton, Guardian & Reliance WL. Frac Horizontal Wolfcamp w/11245432 gals Slickwater, carrying 7088900# 100 Mesh Sand & 4204200# 40/70 White Sand as follows (planned). Frac stage #1 as follows:</p> <p><u>Stage #1 @ 16800', 16785', 16770', 16755', 16740', 16725'</u></p> <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>15</td><td>8260</td></tr><tr><td>23400</td><td>Slickwater</td><td>0.00</td><td>23</td><td>8490</td></tr><tr><td>23400</td><td>Slickwater w/100 Mesh</td><td>0.00</td><td>25</td><td>8620</td></tr><tr><td>26000</td><td>Slickwater w/100 Mesh</td><td>0.00</td><td>25</td><td>8620</td></tr><tr><td>32500</td><td>Slickwater w/100 Mesh</td><td>0.00</td><td>25</td><td>8540</td></tr><tr><td>41600</td><td>Slickwater w/100 Mesh</td><td>0.00</td><td>25</td><td>8535</td></tr><tr><td>35100</td><td>Slickwater w/100 Mesh</td><td>0.00</td><td>26</td><td>8520</td></tr><tr><td>39000</td><td>Slickwater w/100 Mesh</td><td>0.00</td><td>26</td><td>8560</td></tr><tr><td>16900</td><td>Slickwater w/40/70 White</td><td>0.00</td><td>27</td><td>8525</td></tr><tr><td>35100</td><td>Slickwater w/40/70 White</td><td>0.00</td><td>28</td><td>8810</td></tr><tr><td>35100</td><td>Slickwater w/40/70 White</td><td>0.00</td><td>27</td><td>8620</td></tr><tr><td>36400</td><td>Slickwater w/40/70 White</td><td>0.00</td><td>27</td><td>8615</td></tr><tr><td>22100</td><td>Slickwater w/40/70 White</td><td>0.00</td><td>27</td><td>8620</td></tr><tr><td>36430</td><td>Slickwater Flush</td><td>0.00</td><td>27</td><td>8595</td></tr></table> <p>ISDP 7110#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6930 gals FW @ 8 BPM & 7135#. Set plug @ 16715'. Fired guns on the fly. Perforated @ 16703' (0.67', 3 holes), 16690' (0.67', 3 holes), 16677' (0.67', 3 holes), 16664' (0.67', 3 holes), 16651' (0.67', 3 holes), 16638' (0.67', 3 holes), 16625' (0.67', 3 holes), 16612' (0.67', 3 holes), 16599' (0.67', 3 holes), 16586' (0.67', 3 holes), 16573' (0.67', 3 holes) & 16560' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. While POOH WL became stuck @ 11845'. Attempted to work free but was unsuccessful. Pump tools down to 16310' when tools were pumped off @ 20 BPM. POOH & found a clean pull. Frac stage #2 as follows:</p> <p><u>Stage #2 @ 16703', 16690', 16677', 16664', 16651', 16638', 16625', 16612', 16599', 16586', 16573', 16560'</u></p> <table><tr><th>(Gals)</th><th>Stage Fluid</th><th>PPG</th><th>AIR</th><th>SCP</th></tr></table>	(Gals)	Stage Fluid	PPG	AIR	SCP	1000	10% HCl Acid	0.00	15	8260	23400	Slickwater	0.00	23	8490	23400	Slickwater w/100 Mesh	0.00	25	8620	26000	Slickwater w/100 Mesh	0.00	25	8620	32500	Slickwater w/100 Mesh	0.00	25	8540	41600	Slickwater w/100 Mesh	0.00	25	8535	35100	Slickwater w/100 Mesh	0.00	26	8520	39000	Slickwater w/100 Mesh	0.00	26	8560	16900	Slickwater w/40/70 White	0.00	27	8525	35100	Slickwater w/40/70 White	0.00	28	8810	35100	Slickwater w/40/70 White	0.00	27	8620	36400	Slickwater w/40/70 White	0.00	27	8615	22100	Slickwater w/40/70 White	0.00	27	8620	36430	Slickwater Flush	0.00	27	8595	(Gals)	Stage Fluid	PPG	AIR	SCP
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32500	Slickwater w/100 Mesh	0.00	25	8540																																																																													
41600	Slickwater w/100 Mesh	0.00	25	8535																																																																													
35100	Slickwater w/100 Mesh	0.00	26	8520																																																																													
39000	Slickwater w/100 Mesh	0.00	26	8560																																																																													
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2500	10% HCl Acid	0.00	33	8390
23400	Slickwater	0.00	55	8600
23400	Slickwater w/100 Mesh	0.25	65	8340
26000	Slickwater w/100 Mesh	0.50	70	8455
32500	Slickwater w/100 Mesh	1.00	73	8260
41600	Slickwater w/100 Mesh	1.50	72	8245
35100	Slickwater w/100 Mesh	1.75	74	8345
39000	Slickwater w/100 Mesh	2.00	71	8430
16900	Slickwater w/40/70 White	0.25	73	8340
35100	Slickwater w/40/70 White	0.50	75	8340
35100	Slickwater w/40/70 White	1.00	75	8305
36400	Slickwater w/40/70 White	1.50	78	8250
22100	Slickwater w/40/70 White	1.75	68	8200
36328	Slickwater Flush	0.00	74	8405

ISDP 5809#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/9156 gals FW 8 @ BPM & 6174#. Set plug @ 16550'. Fired guns on the fly. **Perforated @ 16538' (0.67', 3 holes), 16524' (0.67', 3 holes), 16510' (0.67', 3 holes), 16496' (0.67', 3 holes), 16482' (0.67', 3 holes), 16468' (0.67', 3 holes), 16454' (0.67', 3 holes), 16440' (0.67', 3 holes), 16426' (0.67', 3 holes), 16412' (0.67', 3 holes), 16398' (0.67', 3 holes) & 16384' (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 @ 16538', 16524', 16510', 16496', 16482', 16468', 16454', 16440', 16426', 16412', 16398', 16384'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
1000	10% HCl Acid	0.00	21	8375
23400	Slickwater	0.00	41	8470
23400	Slickwater w/100 Mesh	0.25	58	8490
26000	Slickwater w/100 Mesh	0.50	60	8460
32500	Slickwater w/100 Mesh	1.00	62	8425
41600	Slickwater w/100 Mesh	1.50	63	8450
35100	Slickwater w/100 Mesh	1.75	67	8535
39000	Slickwater w/100 Mesh	2.00	64	8640
16900	Slickwater w/40/70 White	0.25	66	8460
35100	Slickwater w/40/70 White	0.50	66	8375
35100	Slickwater w/40/70 White	1.00	68	8420
36400	Slickwater w/40/70 White	1.50	70	8355
22100	Slickwater w/40/70 White	1.75	65	8625
36224	Slickwater Flush	0.00	65	8180

ISDP 5965#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/10374 gals FW @ 8 BPM & 6094#. Set plug @ 16374'. Fired guns on the fly. **Perforated @ 16362' (0.67', 3 holes), 16351' (0.67', 3 holes), 16336' (0.67', 3 holes), 16323' (0.67', 3 holes), 16310' (0.67', 3 holes), 16297' (0.67', 3 holes), 16284' (0.67', 3 holes), 16271' (0.67', 3 holes), 16258' (0.67', 3 holes), 16245' (0.67', 3 holes), 16232' (0.67', 3 holes) & 16221' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #4 as follows:

Stage #4 @ 16362', 16351', 16336', 16323', 16310', 16297', 16284', 16271', 16258', 16245', 16232', 16221'

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	2000	10% HCl Acid	0.00	22	8435
	23400	Slickwater	0.00	36	8550
	23400	Slickwater w/100 Mesh	0.25	54	8135
	26000	Slickwater w/100 Mesh	0.50	63	8410
	32500	Slickwater w/100 Mesh	1.00	68	8455
	41600	Slickwater w/100 Mesh	1.50	69	8510
	35100	Slickwater w/100 Mesh	1.75	69	8465
	39000	Slickwater w/100 Mesh	2.00	67	8655
	16900	Slickwater w/40/70 White	0.25	67	8405
	35100	Slickwater w/40/70 White	0.50	70	8385
	35100	Slickwater w/40/70 White	1.00	72	8415
	36400	Slickwater w/40/70 White	1.50	72	8380
	22100	Slickwater w/40/70 White	1.75	70	8785
	36114	Slickwater Flush	0.00	68	8420
ISDP 5015#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/7560 gals FW @ 8 BPM & 5940#. Set plug @ 16209'. Fired guns on the fly. Perforated @ 16197' (0.67', 3 holes), 16184' (0.67', 3 holes), 16171' (0.67', 3 holes), 16158' (0.67', 3 holes), 16145' (0.67', 3 holes), 16136' (0.67', 3 holes), 16119' (0.67', 3 holes), 16106' (0.67', 3 holes), 16093' (0.67', 3 holes), 16080' (0.67', 3 holes), 16067' (0.67', 3 holes) & 16054' (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 @ 16197', 16184', 16171', 16158', 16145', 16136', 16119', 16106', 16093', 16080', 16067', 16054'</u>					
	(Gals)	Stage Fluid	PPG	AIR	SCP
	2000	10% HCl Acid	0.00	25	8545
	23400	Slickwater	0.00	51	8750
	23400	Slickwater w/100 Mesh	0.25	57	8415
	26000	Slickwater w/100 Mesh	0.50	63	8480
	32500	Slickwater w/100 Mesh	1.00	64	8405
	41600	Slickwater w/100 Mesh	1.50	63	8490
	35100	Slickwater w/100 Mesh	1.75	64	8460
	39000	Slickwater w/100 Mesh	2.00	63	8760
	16900	Slickwater w/40/70 White	0.25	63	8495
	35100	Slickwater w/40/70 White	0.50	65	8445
	35100	Slickwater w/40/70 White	1.00	66	8380
	36400	Slickwater w/40/70 White	1.50	69	8445
	22100	Slickwater w/40/70 White	1.75	62	8515
	36011	Slickwater Flush	0.00	64	8460
ISDP 6125#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6174 gals FW @ 8 BPM & 6047#. Set plug @ 16043'. Fired guns on the fly. Perforated @ 16032' (0.67', 3 holes), 16018' (0.67', 3 holes), 16002' (0.67', 3 holes), 15990' (0.67', 3 holes), 15976' (0.67', 3 holes), 15965' (0.67', 3 holes), 15948' (0.67', 3 holes), 15934' (0.67', 3 holes), 15921' (0.67', 3 holes), 15906' (0.67', 3 holes), 15892' (0.67', 3 holes) & 15878' (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 #6 as follows:					

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Stage #6 @ 16032', 16018', 16002', 15990', 15976', 15965', 15948', 15934', 15921', 15906', 15892', 15878'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	31	8500
23400	Slickwater	0.00	57	8900
23400	Slickwater w/100 Mesh	0.25	62	8505
26000	Slickwater w/100 Mesh	0.50	65	8480
32500	Slickwater w/100 Mesh	1.00	65	8440
41600	Slickwater w/100 Mesh	1.50	67	8460
35100	Slickwater w/100 Mesh	1.75	68	8430
39000	Slickwater w/100 Mesh	2.00	63	8615
16900	Slickwater w/40/70 White	0.25	63	8480
35100	Slickwater w/40/70 White	0.50	67	8450
35100	Slickwater w/40/70 White	1.00	69	8440
36400	Slickwater w/40/70 White	1.50	69	8435
22100	Slickwater w/40/70 White	1.75	61	8575
35907	Slickwater Flush	0.00	62	8520

ISDP 6311#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6678 gals FW @ 8 BPM & 6162#. Set plug @ 15870'. Fired guns on the fly. **Perforated @ 15856' (0.67', 3 holes), 15842' (0.67', 3 holes), 15828' (0.67', 3 holes), 15814' (0.67', 3 holes), 15800' (0.67', 3 holes), 15786' (0.67', 3 holes), 15772' (0.67', 3 holes), 15758' (0.67', 3 holes), 15744' (0.67', 3 holes), 15730' (0.67', 3 holes), 15716' (0.67', 3 holes) & 15701' (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:

Stage #7 @ 15856', 15842', 15828', 15814', 15800', 15786', 15772', 15758', 15744', 15730', 15716', 15701'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	33	8480
23400	Slickwater	0.00	48	8530
23400	Slickwater w/100 Mesh	0.25	59	8480
26000	Slickwater w/100 Mesh	0.50	63	8470
32500	Slickwater w/100 Mesh	1.00	64	8430
41600	Slickwater w/100 Mesh	1.50	65	8450
35100	Slickwater w/100 Mesh	1.75	67	8400
39000	Slickwater w/100 Mesh	2.00	63	8680
16900	Slickwater w/40/70 White	0.25	63	8430
35100	Slickwater w/40/70 White	0.50	68	8415
35100	Slickwater w/40/70 White	1.00	71	8430
36400	Slickwater w/40/70 White	1.50	71	8425
22100	Slickwater w/40/70 White	1.75	65	8595
35853	Slickwater Flush	0.00	65	8500

ISDP 6303#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6426 gals FW @ 8 BPM & 6169#. Set plug @ 15693'. Fired guns on the fly. **Perforated @ 15680' (0.67', 3 holes), 15667' (0.67', 3 holes), 15654' (0.67', 3 holes), 15641' (0.67', 3 holes), 15628' (0.67', 3 holes), 15615' (0.67', 3 holes), 15602' (0.67', 3 holes), 15589' (0.67', 3 holes), 15579' (0.67', 3 holes), 15563' (0.67', 3 holes), 15550' (0.67', 3 holes) & 15537' (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 #8 as follows:

Stage #8 @ 15680', 15667', 15654', 15641', 15628', 15615', 15602', 15589', 15579', 15563', 15550', 15537'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	28	8455
23400	Slickwater	0.00	51	8450
23400	Slickwater w/100 Mesh	0.25	59	8415
26000	Slickwater w/100 Mesh	0.50	64	8485
32500	Slickwater w/100 Mesh	1.00	68	8450
41600	Slickwater w/100 Mesh	1.50	70	8480
35100	Slickwater w/100 Mesh	1.75	70	8380
39000	Slickwater w/100 Mesh	2.00	67	8630
16900	Slickwater w/40/70 White	0.25	68	8450
35100	Slickwater w/40/70 White	0.50	70	8410
35100	Slickwater w/40/70 White	1.00	70	8450
36400	Slickwater w/40/70 White	1.50	74	8450
22100	Slickwater w/40/70 White	1.75	68	8670
35686	Slickwater Flush	0.00	68	8550

ISDP 6100#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6174 gals FW @ 8 BPM & 6120#. Set plug @ 15527'. Fired guns on the fly. **Perforated @ 15515' (0.67', 3 holes), 15503' (0.67', 3 holes), 15494' (0.67', 3 holes), 15479' (0.67', 3 holes), 15467' (0.67', 3 holes), 15455' (0.67', 3 holes), 15443' (0.67', 3 holes), 15431' (0.67', 3 holes), 15419' (0.67', 3 holes), 15403' (0.67', 3 holes), 15395' (0.67', 3 holes) & 15383' (0.67', 3 holes).** Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #9 as follows:

Stage #9 @ 15515', 15503', 15494', 15479', 15467', 15455', 15443', 15431', 15419', 15403', 15395', 15383'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	20	8560
23400	Slickwater	0.00	53	8480
23400	Slickwater w/100 Mesh	0.25	55	8600
26000	Slickwater w/100 Mesh	0.50	58	8530
32500	Slickwater w/100 Mesh	1.00	60	8500
41600	Slickwater w/100 Mesh	1.50	63	8560
35100	Slickwater w/100 Mesh	1.75	65	8400
39000	Slickwater w/100 Mesh	2.00	70	8600
16900	Slickwater w/40/70 White	0.25	65	8570
35100	Slickwater w/40/70 White	0.50	65	8470
35100	Slickwater w/40/70 White	1.00	70	8670
36400	Slickwater w/40/70 White	1.50	70	8530
22100	Slickwater w/40/70 White	1.75	72	8415
35583	Slickwater Flush	0.00	65	8480

ISDP 6176#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6132 gals FW @ 8 BPM & 6118#. Set plug @ 15373'. Fired guns on the fly. **Perforated @ 15361' (0.67', 3 holes), 15348' (0.67', 3 holes), 15335' (0.67', 3 holes), 15326' (0.67', 3 holes), 15309' (0.67', 3 holes), 15296' (0.67', 3 holes), 15283' (0.67', 3 holes),**

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15270' (0.67', 3 holes), 15257' (0.67', 3 holes), 15244' (0.67', 3 holes), 15231' (0.67', 3 holes) & 15218' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #10 as follows:

Stage #10 @ 15361', 15348', 15335', 15326', 15309', 15296', 15283', 15270', 15257', 15244', 15231', 15218'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	39	8390
23400	Slickwater	0.00	50	8585
23400	Slickwater w/100 Mesh	0.25	55	8565
26000	Slickwater w/100 Mesh	0.50	60	8515
32500	Slickwater w/100 Mesh	1.00	50	8540
41600	Slickwater w/100 Mesh	1.50	60	8670
35100	Slickwater w/100 Mesh	1.75	57	8655
39000	Slickwater w/100 Mesh	2.00	55	8600
16900	Slickwater w/40/70 White	0.25	56	8610
35100	Slickwater w/40/70 White	0.50	57	8510
35100	Slickwater w/40/70 White	1.00	57	8570
36400	Slickwater w/40/70 White	1.50	57	8640
22100	Slickwater w/40/70 White	1.75	52	8515
35486	Slickwater Flush	0.00	55	8550

ISDP 6160#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/6048 gals FW @ 8 BPM & 7186#. Set plug @ 15208'. Fired guns on the fly. Perforated @ 15198' (0.67', 3 holes), 15182' (0.67', 3 holes), 15168' (0.67', 3 holes), 15155' (0.67', 3 holes), 15140' (0.67', 3 holes), 15126' (0.67', 3 holes), 15112' (0.67', 3 holes), 15098' (0.67', 3 holes), 15084' (0.67', 3 holes), 15070' (0.67', 3 holes), 15056' (0.67', 3 holes) & 15042' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #11 as follows:

Stage #11 @ 15198', 15182', 15168', 15155', 15140', 15126', 15112', 15098', 15084', 15070', 15056', 15042'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	24	8515
23400	Slickwater	0.00	55	8555
23400	Slickwater w/100 Mesh	0.25	61	8430
26000	Slickwater w/100 Mesh	0.50	64	8460
32500	Slickwater w/100 Mesh	1.00	65	8480
41600	Slickwater w/100 Mesh	1.50	67	8490
35100	Slickwater w/100 Mesh	1.75	67	8415
39000	Slickwater w/100 Mesh	2.00	68	8770
16900	Slickwater w/40/70 White	0.25	66	8405
35100	Slickwater w/40/70 White	0.50	67	8340
35100	Slickwater w/40/70 White	1.00	72	8420
36400	Slickwater w/40/70 White	1.50	74	8450
22100	Slickwater w/40/70 White	1.75	70	8600
35380	Slickwater Flush	0.00	69	8300

ISDP 5958#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/5460 gals FW @ 8 BPM & 5990#. Set plug @ 15032'. Fired guns on the

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fly. Perforated @ 15019' (0.67', 3 holes), 15005' (0.67', 3 holes), 14990' (0.67', 3 holes), 14975' (0.67', 3 holes), 14960' (0.67', 3 holes), 14945' (0.67', 3 holes), 14930' (0.67', 3 holes), 14915' (0.67', 3 holes), 14904' (0.67', 3 holes), 14885' (0.67', 3 holes), 14870' (0.67', 3 holes) & 14859' (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:

Stage #12 @ 15019', 15005', 14990', 14975', 14960', 14945', 14930', 14915', 14904', 14885', 14870', 14859'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	30	7800
23400	Slickwater	0.00	55	8460
23400	Slickwater w/100 Mesh	0.25	58	8400
26000	Slickwater w/100 Mesh	0.50	63	8380
32500	Slickwater w/100 Mesh	1.00	64	8400
41600	Slickwater w/100 Mesh	1.50	73	8500
35100	Slickwater w/100 Mesh	1.75	77	8300
39000	Slickwater w/100 Mesh	2.00	74	8700
16900	Slickwater w/40/70 White	0.25	74	8300
35100	Slickwater w/40/70 White	0.50	75	8350
35100	Slickwater w/40/70 White	1.00	73	8200
36400	Slickwater w/40/70 White	1.50	72	8030
22100	Slickwater w/40/70 White	1.75	71	8000
35273	Slickwater Flush	0.00	77	8400

ISDP 6033#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/4914 gals FW @ 8 BPM & 5940#. Set plug @ 14847'. Fired guns on the fly. Perforated @ 14833' (0.67', 3 holes), 14822' (0.67', 3 holes), 14809' (0.67', 3 holes), 14800' (0.67', 3 holes), 14789' (0.67', 3 holes), 14778' (0.67', 3 holes), 14766' (0.67', 3 holes), 14756' (0.67', 3 holes), 14745' (0.67', 3 holes), 14734' (0.67', 3 holes), 14723' (0.67', 3 holes) & 14712' (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:

Stage #13 @ 14833', 14822', 14809', 14800', 14789', 14778', 14766', 14756', 14745', 14734', 14723', 14712'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	22	7950
23400	Slickwater	0.00	38	8685
23400	Slickwater w/100 Mesh	0.25	55	8600
26000	Slickwater w/100 Mesh	0.50	42	8320
32500	Slickwater w/100 Mesh	1.00	62	7980
41600	Slickwater w/100 Mesh	1.50	53	7600
35100	Slickwater w/100 Mesh	1.75	52	8290
39000	Slickwater w/100 Mesh	2.00	52	7790
16900	Slickwater w/40/70 White	0.25	52	7550
35100	Slickwater w/40/70 White	0.50	53	7330
35100	Slickwater w/40/70 White	1.00	53	7450
36400	Slickwater w/40/70 White	1.50	56	7280
22100	Slickwater w/40/70 White	1.75	54	7680
35155	Slickwater Flush	0.00	48	8825

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ISDP 5842#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/4326 gals FW @ 8 BPM & 5881#. Set plug @ 14704'. Fired guns on the fly. **Perforated @ 14690' (0.67', 3 holes), 14678' (0.67', 3 holes), 14666' (0.67', 3 holes), 14654' (0.67', 3 holes), 14642' (0.67', 3 holes), 14630' (0.67', 3 holes), 14618' (0.67', 3 holes), 14606' (0.67', 3 holes), 14594' (0.67', 3 holes), 14582' (0.67', 3 holes), 14570' (0.67', 3 holes) & 14558' (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 #14 as follows:

Stage #14 @ 14690', 14678', 14666', 14654', 14642', 14630', 14618', 14606', 14594', 14582', 14570', 14558'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	38	7990
23400	Slickwater	0.00	42	8300
23400	Slickwater w/100 Mesh	0.25	54	7890
26000	Slickwater w/100 Mesh	0.50	55	8555
32500	Slickwater w/100 Mesh	1.00	56	8100
41600	Slickwater w/100 Mesh	1.50	57	8100
35100	Slickwater w/100 Mesh	1.75	63	7850
39000	Slickwater w/100 Mesh	2.00	63	8500
16900	Slickwater w/40/70 White	0.25	60	7750
35100	Slickwater w/40/70 White	0.50	61	7540
35100	Slickwater w/40/70 White	1.00	55	8165
36400	Slickwater w/40/70 White	1.50	53	7840
22100	Slickwater w/40/70 White	1.75	42	7920
35066	Slickwater Flush	0.00	41	7650

ISDP 5971#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3822 gals FW @ 8 BPM & 6193#. Set plug @ 14550'. Fired guns on the fly. **Perforated @ 14536' (0.67', 3 holes), 14524' (0.67', 3 holes), 14513' (0.67', 3 holes), 14500' (0.67', 3 holes), 14488' (0.67', 3 holes), 14476' (0.67', 3 holes), 14464' (0.67', 3 holes), 14452' (0.67', 3 holes), 14440' (0.67', 3 holes), 14428' (0.67', 3 holes), 14416' (0.67', 3 holes) & 14404' (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 #15 as follows:

Stage #15 @ 14536', 14524', 14513', 14500', 14488', 14476', 14464', 14452', 14440', 14428', 14416', 14404'

(Gals)	Stage Fluid	PPG	AIR	SCP
2000	10% HCl Acid	0.00	48	8350
23400	Slickwater	0.00	43	8460
23400	Slickwater w/100 Mesh	0.25	57	8520
26000	Slickwater w/100 Mesh	0.50	59	8480
32500	Slickwater w/100 Mesh	1.00	65	8600
41600	Slickwater w/100 Mesh	1.50	65	8700
35100	Slickwater w/100 Mesh	1.75	67	8075
39000	Slickwater w/100 Mesh	2.00	68	8048
16900	Slickwater w/40/70 White	0.25	60	7860
35100	Slickwater w/40/70 White	0.50	68	8210
35100	Slickwater w/40/70 White	1.00	60	7770
36400	Slickwater w/40/70 White	1.50	61	8300
22100	Slickwater w/40/70 White	1.75	60	8400

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	ISDP #5967. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3234 gals FW @ 8 BPM & 6002#. Set plug @ 14396'. Fired guns on the fly. Perforated @ 14382' (0.67', 3 holes), 14370' (0.67', 3 holes), 14358' (0.67', 3 holes), 14346' (0.67', 3 holes), 14334' (0.67', 3 holes), 14322' (0.67', 3 holes), 14310' (0.67', 3 holes), 14298' (0.67', 3 holes), 14286' (0.67', 3 holes), 14274' (0.67', 3 holes), 14262' (0.67', 3 holes) & 14250' (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:				
	<u>Stage #16 @ 14382', 14370', 14358', 14346', 14334', 14322', 14310', 14298', 14286', 14274', 14262', 14250'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	2000	10% HCl Acid	0.00	22	7660
	23400	Slickwater	0.00	46	8010
	23400	Slickwater w/100 Mesh	0.25	56	8150
	26000	Slickwater w/100 Mesh	0.50	60	8045
	32500	Slickwater w/100 Mesh	1.00	64	8000
	41600	Slickwater w/100 Mesh	1.50	80	8425
	35100	Slickwater w/100 Mesh	1.75	80	8435
	39000	Slickwater w/100 Mesh	2.00	75	8600
	16900	Slickwater w/40/70 White	0.25	74	8300
	35100	Slickwater w/40/70 White	0.50	78	8350
	35100	Slickwater w/40/70 White	1.00	80	8265
	36400	Slickwater w/40/70 White	1.50	80	8125
	22100	Slickwater w/40/70 White	1.75	77	8560
	34873	Slickwater Flush	0.00	77	8465
	ISDP 6061#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3612 gals FW @ 8 BPM & 5963#. Set plug @ 14240'. Fired guns on the fly. Perforated @ 14228' (0.67', 3 holes), 14215' (0.67', 3 holes), 14202' (0.67', 3 holes), 14189' (0.67', 3 holes), 14174' (0.67', 3 holes), 14163' (0.67', 3 holes), 14150' (0.67', 3 holes), 14137' (0.67', 3 holes), 14124' (0.67', 3 holes), 14111' (0.67', 3 holes), 14098' (0.67', 3 holes) & 14085' (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:				
	<u>Stage #17 @ 14228', 14215', 14202', 14189', 14174', 14163', 14150', 14137', 14124', 14111', 14098', 14085'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	2000	10% HCl Acid	0.00	40	7830
	23400	Slickwater	0.00	55	8095
	23400	Slickwater w/100 Mesh	0.25	63	8315
	26000	Slickwater w/100 Mesh	0.50	72	8380
	32500	Slickwater w/100 Mesh	1.00	74	8380
	41600	Slickwater w/100 Mesh	1.50	80	8440
	35100	Slickwater w/100 Mesh	1.75	80	8235
	39000	Slickwater w/100 Mesh	2.00	78	8640
	16900	Slickwater w/40/70 White	0.25	80	8445
	35100	Slickwater w/40/70 White	0.50	80	8220
	35100	Slickwater w/40/70 White	1.00	80	8100

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SEPT 24 – CONT	36400	Slickwater w/40/70 White	1.50	80	8055
	22100	Slickwater w/40/70 White	1.75	79	8570
	34776	Slickwater Flush	0.00	79	8375
	ISDP 6146#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2814 gals FW @ 8 BPM & 5961#. Set plug @ 14075'. Fired guns on the fly. Perforated @ 14063' (0.67', 3 holes), 14052' (0.67', 3 holes), 14037' (0.67', 3 holes), 14024' (0.67', 3 holes), 14011' (0.67', 3 holes), 13998' (0.67', 3 holes), 13985' (0.67', 3 holes), 13972' (0.67', 3 holes), 13959' (0.67', 3 holes), 13946' (0.67', 3 holes), 13933' (0.67', 3 holes) & 13920' (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:				
<u>Stage #18 @ 14063', 14052', 14037', 14024', 14011', 13998', 13985', 13972', 13959', 13946', 13933', 13920'</u>					
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	2000	10% HCl Acid	0.00	36	8260
	23400	Slickwater	0.00	51	8520
	23400	Slickwater w/100 Mesh	0.25	50	7760
	26000	Slickwater w/100 Mesh	0.50	69	8335
	32500	Slickwater w/100 Mesh	1.00	69	8025
	41600	Slickwater w/100 Mesh	1.50	60	7480
	35100	Slickwater w/100 Mesh	1.75	60	7440
	39000	Slickwater w/100 Mesh	2.00	47	8540
	16900	Slickwater w/40/70 White	0.25	56	7600
	35100	Slickwater w/40/70 White	0.50	51	7985
	35100	Slickwater w/40/70 White	1.00	67	8130
	36400	Slickwater w/40/70 White	1.50	70	8050
	22100	Slickwater w/40/70 White	1.75	58	8230
	34672	Slickwater Flush	0.00	58	8135
ISDP 5991#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2730 gals FW @ 8 BPM & 6401#. Set plug @ 13910'. Fired guns on the fly. Perforated @ 13898' (0.67', 3 holes), 13885' (0.67', 3 holes), 13872' (0.67', 3 holes), 13859' (0.67', 3 holes), 13846' (0.67', 3 holes), 13833' (0.67', 3 holes), 13820' (0.67', 3 holes), 13807' (0.67', 3 holes), 13794' (0.67', 3 holes), 13781' (0.67', 3 holes), 13768' (0.67', 3 holes) & 13755' (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:					
<u>Stage #19 @ 13898', 13885', 13872', 13859', 13846', 13833', 13820', 13807', 13794', 13781', 13768', 13755'</u>					
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	1000	10% HCl Acid	0.00	20	7100
	23400	Slickwater	0.00	50	7800
	23400	Slickwater w/100 Mesh	0.25	60	7730
	26000	Slickwater w/100 Mesh	0.50	69	8060
	32500	Slickwater w/100 Mesh	1.00	70	7750
	41600	Slickwater w/100 Mesh	1.50	70	7630
	35100	Slickwater w/100 Mesh	1.75	67	8350
	39000	Slickwater w/100 Mesh	2.00	70	8000
	16900	Slickwater w/40/70 White	0.25	70	7840

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	35100	Slickwater w/40/70 White	1.00	70	7650
	36400	Slickwater w/40/70 White	1.50	70	8300
	22100	Slickwater w/40/70 White	1.75	70	8060
	34569	Slickwater Flush	0.00	70	7500
	ISDP 5941#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2982 gals FW @ 8 BPM & 5930#. Set plug @ 13747'. Fired guns on the fly. Perforated @ 13733' (0.67', 3 holes), 13719' (0.67', 3 holes), 13705' (0.67', 3 holes), 13691' (0.67', 3 holes), 13677' (0.67', 3 holes), 13663' (0.67', 3 holes), 13649' (0.67', 3 holes), 13635' (0.67', 3 holes), 13621' (0.67', 3 holes), 13607' (0.67', 3 holes), 13593' (0.67', 3 holes) & 13579' (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 @ 13733', 13719', 13705', 13691', 13677', 13663', 13649', 13635', 13621', 13607', 13593', 13579'				
	(Gals)	Stage Fluid	PPG	AIR	SCP
	23400	Slickwater	0.00	49	8050
	23400	Slickwater w/100 Mesh	0.25	61	8185
	26000	Slickwater w/100 Mesh	0.50	69	8250
	32500	Slickwater w/100 Mesh	1.00	73	8325
	41600	Slickwater w/100 Mesh	1.50	70	8050
	35100	Slickwater w/100 Mesh	1.75	65	8020
	39000	Slickwater w/100 Mesh	2.00	63	8260
	16900	Slickwater w/40/70 White	0.25	59	8420
	35100	Slickwater w/40/70 White	0.50	59	7760
	35100	Slickwater w/40/70 White	1.00	68	7730
	36400	Slickwater w/40/70 White	1.50	70	7750
	22100	Slickwater w/40/70 White	1.75	59	8210
	34462	Slickwater Flush	0.00	49	7700
	ISDP 6149#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/3150 gals FW @ 8 BPM & 5940#. Set plug @ 13570'. Fired guns on the fly. Perforated @ 13557' (0.67', 3 holes), 13543' (0.67', 3 holes), 13529' (0.67', 3 holes), 13515' (0.67', 3 holes), 13501' (0.67', 3 holes), 13487' (0.67', 3 holes), 13473' (0.67', 3 holes), 13459' (0.67', 3 holes), 13445' (0.67', 3 holes), 13431' (0.67', 3 holes), 13417' (0.67', 3 holes) & 13403' (0.67', 3 holes). Total 8', 36 holes. Guns loaded @ 0.39" EHD, 15 GC, 38" pen, 120° phasing. POOH. All guns fired. Drop 2 1/8" ball. Frac stage #21 as follows:				
	Stage #21 @ 13557', 13543', 13529', 13515', 13501', 13487', 13473', 13459', 13445', 13431', 13417', 13403'				
	(Gals)	Stage Fluid	PPG	AIR	SCP
	2000	10% HCl Acid	0.00	35	7910
	23400	Slickwater	0.00	63	8090
	23400	Slickwater w/100 Mesh	0.25	67	8140
	26000	Slickwater w/100 Mesh	0.50	66	7870
	32500	Slickwater w/100 Mesh	1.00	73	7950
	41600	Slickwater w/100 Mesh	1.50	79	8300
	35100	Slickwater w/100 Mesh	1.75	68	7615

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	16900	Slickwater w/40/70 White	0.25	62	7810
	35100	Slickwater w/40/70 White	0.50	61	8005
	35100	Slickwater w/40/70 White	1.00	62	7520
	36400	Slickwater w/40/70 White	1.50	68	7600
	22100	Slickwater w/40/70 White	1.75	65	8080
	34355	Slickwater Flush	0.00	56	8250
	ISDP 5795#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2856 gals FW @ 8 BPM & 5750#. Set plug @ 13393'. Fired guns on the fly. Perforated @ 13381' (0.67', 3 holes), 13367' (0.67', 3 holes), 13353' (0.67', 3 holes), 13339' (0.67', 3 holes), 13325' (0.67', 3 holes), 13311' (0.67', 3 holes), 13297' (0.67', 3 holes), 13283' (0.67', 3 holes), 13269' (0.67', 3 holes), 13255' (0.67', 3 holes), 13240' (0.67', 3 holes) & 13227' (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:				
	<u>Stage #22 @ 13381', 13367', 13353', 13339', 13325', 13311', 13297', 13283', 13269', 13255', 13240', 13227'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	1000	10% HCl Acid	0.00	43	8010
	23400	Slickwater	0.00	59	7720
	23400	Slickwater w/100 Mesh	0.25	60	7765
	26000	Slickwater w/100 Mesh	0.50	61	7520
	32500	Slickwater w/100 Mesh	1.00	75	7905
	41600	Slickwater w/100 Mesh	1.50	73	7710
	35100	Slickwater w/100 Mesh	1.75	73	7630
	39000	Slickwater w/100 Mesh	2.00	67	7935
	16900	Slickwater w/40/70 White	0.25	70	7810
	35100	Slickwater w/40/70 White	0.50	70	7560
	35100	Slickwater w/40/70 White	1.00	70	7430
	36400	Slickwater w/40/70 White	1.50	77	7715
	22100	Slickwater w/40/70 White	1.75	76	8310
	34245	Slickwater Flush	0.00	76	8240
	ISDP 5905#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2688 gals FW @ 8 BPM & 5670#. Set plug @ 13217'. Fired guns on the fly. Perforated @ 13205' (0.67', 3 holes), 13191' (0.67', 3 holes), 13177' (0.67', 3 holes), 13163' (0.67', 3 holes), 13149' (0.67', 3 holes), 13135' (0.67', 3 holes), 13121' (0.67', 3 holes), 13107' (0.67', 3 holes), 13093' (0.67', 3 holes), 13079' (0.67', 3 holes), 13065' (0.67', 3 holes) & 13051' (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 #23 as follows:				
	<u>Stage #23 @ 13205', 13191', 13177', 13163', 13149', 13135', 13121', 13107', 13093', 13079', 13065', 13051'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	1000	10% HCl Acid	0.00	30	7000
	23400	Slickwater	0.00	67	7800
	23400	Slickwater w/100 Mesh	0.25	70	7840
	26000	Slickwater w/100 Mesh	0.50	70	7900
	32500	Slickwater w/100 Mesh	1.00	70	7525

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SEPT 24 – CONT	41600	Slickwater w/100 Mesh	1.50	70	7380
	35100	Slickwater w/100 Mesh	1.75	70	7270
	39000	Slickwater w/100 Mesh	2.00	80	7740
	16900	Slickwater w/40/70 White	0.25	80	7780
	35100	Slickwater w/40/70 White	0.50	80	7805
	35100	Slickwater w/40/70 White	1.00	80	7700
	36400	Slickwater w/40/70 White	1.50	80	7600
	22100	Slickwater w/40/70 White	1.75	80	7580
	34134	Slickwater Flush	0.00	80	7730
	ISDP 5758#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/2436 gals FW @ 8 BPM & 5525#. Set plug @ 13041'. Fired guns on the fly. Perforated @ 13026' (0.67', 3 holes), 13017' (0.67', 3 holes), 13005' (0.67', 3 holes), 12993' (0.67', 3 holes), 12981' (0.67', 3 holes), 12969' (0.67', 3 holes), 12957' (0.67', 3 holes), 12945' (0.67', 3 holes), 12933' (0.67', 3 holes), 12921' (0.67', 3 holes), 12909' (0.67', 3 holes) & 12897' (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:				
<u>Stage #24 @ 13026', 13017', 13005', 12993', 12981', 12969', 12957', 12945', 12933', 12921', 12909', 12897'</u>					
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	1000	10% HCl Acid	0.00	45	7925
	23400	Slickwater	0.00	60	7325
	23400	Slickwater w/100 Mesh	0.25	80	8000
	26000	Slickwater w/100 Mesh	0.50	80	7700
	32500	Slickwater w/100 Mesh	1.00	80	7460
	41600	Slickwater w/100 Mesh	1.50	80	7375
	35100	Slickwater w/100 Mesh	1.75	80	7250
	39000	Slickwater w/100 Mesh	2.00	80	7580
	16900	Slickwater w/40/70 White	0.25	80	7450
	35100	Slickwater w/40/70 White	0.50	80	7300
	35100	Slickwater w/40/70 White	1.00	80	7150
	36400	Slickwater w/40/70 White	1.50	80	7025
	22100	Slickwater w/40/70 White	1.75	80	7480
	34024	Slickwater Flush	0.00	80	7400
ISDP 5760#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/1378 gals FW @ 8 BPM & 5460#. Set plug @ 12887'. Fired guns on the fly. Perforated @ 12875' (0.67', 3 holes), 12863' (0.67', 3 holes), 12851' (0.67', 3 holes), 12839' (0.67', 3 holes), 12827' (0.67', 3 holes), 12815' (0.67', 3 holes), 12803' (0.67', 3 holes), 12791' (0.67', 3 holes), 12779' (0.67', 3 holes), 12767' (0.67', 3 holes), 12755' (0.67', 3 holes) & 12743' (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 @ 12875', 12863', 12851', 12839', 12827', 12815', 12803', 12791', 12779', 12767', 12755', 12743'</u>					
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	2000	10% HCl Acid	0.00	46	7830
	23400	Slickwater	0.00	73	7690
	23400	Slickwater w/100 Mesh	0.25	79	7675

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	32500	Slickwater w/100 Mesh	1.00	80	7250
	41600	Slickwater w/100 Mesh	1.50	80	6950
	35100	Slickwater w/100 Mesh	1.75	80	6790
	39000	Slickwater w/100 Mesh	2.00	80	7140
	16900	Slickwater w/40/70 White	0.25	80	7045
	35100	Slickwater w/40/70 White	0.50	80	6895
	35100	Slickwater w/40/70 White	1.00	80	6730
	36400	Slickwater w/40/70 White	1.50	80	6610
	22100	Slickwater w/40/70 White	1.75	80	7055
	33928	Slickwater Flush	0.00	80	7020
	ISDP 5784#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/1428 gals FW @ 8 BPM & 5424#. Set plug @ 12734'. Fired guns on the fly. Perforated @ 12721' (0.67', 3 holes), 12709' (0.67', 3 holes), 12697' (0.67', 3 holes), 12685' (0.67', 3 holes), 12673' (0.67', 3 holes), 12661' (0.67', 3 holes), 12649' (0.67', 3 holes), 12637' (0.67', 3 holes), 12625' (0.67', 3 holes), 12613' (0.67', 3 holes), 12601' (0.67', 3 holes) & 12589' (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 @ 12721', 12709', 12697', 12685', 12673', 12661', 12649', 12637', 12625', 12613', 12601', 12589'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	2000	10% HCl Acid	0.00	46	7670
	23400	Slickwater	0.00	61	7450
	23400	Slickwater w/100 Mesh	0.25	71	7450
	26000	Slickwater w/100 Mesh	0.50	80	7465
	32500	Slickwater w/100 Mesh	1.00	80	7270
	41600	Slickwater w/100 Mesh	1.50	81	7155
	35100	Slickwater w/100 Mesh	1.75	81	7075
	39000	Slickwater w/100 Mesh	2.00	81	7640
	16900	Slickwater w/40/70 White	0.25	81	7410
	35100	Slickwater w/40/70 White	0.50	81	7245
	35100	Slickwater w/40/70 White	1.00	81	7125
	36400	Slickwater w/40/70 White	1.50	81	7015
	22100	Slickwater w/40/70 White	1.75	81	7425
	33831	Slickwater Flush	0.00	77	7255
	ISDP 5708#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/1050 gals FW @ 8 BPM & 5560#. Set plug @ 12579'. Fired guns on the fly. Perforated @ 12567' (0.67', 3 holes), 12556' (0.67', 3 holes), 12545' (0.67', 3 holes), 12534' (0.67', 3 holes), 12523' (0.67', 3 holes), 12512' (0.67', 3 holes), 12501' (0.67', 3 holes), 12490' (0.67', 3 holes), 12479' (0.67', 3 holes), 12468' (0.67', 3 holes), 12457' (0.67', 3 holes) & 12446' (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:				
	<u>Stage #27 @ 12567', 12556', 12545', 12534', 12523', 12512', 12501', 12490', 12479', 12468', 12457', 12446'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	2000	10% HCl Acid	0.00	48	7760

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	26000	Slickwater w/100 Mesh	0.50	80	7440
	32500	Slickwater w/100 Mesh	1.00	80	7245
	41600	Slickwater w/100 Mesh	1.50	80	7100
	35100	Slickwater w/100 Mesh	1.75	80	7075
	39000	Slickwater w/100 Mesh	2.00	80	7365
	16900	Slickwater w/40/70 White	0.25	80	7315
	35100	Slickwater w/40/70 White	0.50	80	7070
	35100	Slickwater w/40/70 White	1.00	80	6910
	36400	Slickwater w/40/70 White	1.50	80	6840
	22100	Slickwater w/40/70 White	1.75	80	7280
	33734	Slickwater Flush	0.00	80	7210
	ISDP 5524#. RIH w/Halliburton FasDrill 250 Composite frac plug & 12 - 2' HP scalloped guns. Pumped guns down w/798 gals FW @ 6 BPM & 5341#. Set plug @ 12436'. Fired guns on the fly. Perforated @ 12424' (0.67', 3 holes), 12412' (0.67', 3 holes), 12400' (0.67', 3 holes), 12386' (0.67', 3 holes), 12376' (0.67', 3 holes), 12364' (0.67', 3 holes), 12352' (0.67', 3 holes), 12340' (0.67', 3 holes), 12328' (0.67', 3 holes), 12316' (0.67', 3 holes), 12304' (0.67', 3 holes) & 12292' (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:				
	<u>Stage #28 @ 12424', 12412', 12400', 12386', 12376', 12364', 12352', 12340', 12328', 12316', 12304', 12292'</u>				
	<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
	1000	10% HCl Acid	0.00	50	8460
	23400	Slickwater	0.00	80	8160
	23400	Slickwater w/100 Mesh	0.25	80	8045
	26000	Slickwater w/100 Mesh	0.50	80	7820
	32500	Slickwater w/100 Mesh	1.00	80	7760
	41600	Slickwater w/100 Mesh	1.50	80	7550
	35100	Slickwater w/100 Mesh	1.75	80	7445
	39000	Slickwater w/100 Mesh	2.00	80	7300
	16900	Slickwater w/40/70 White	0.25	80	7800
	35100	Slickwater w/40/70 White	0.50	80	7520
	35100	Slickwater w/40/70 White	1.00	80	7440
	36400	Slickwater w/40/70 White	1.50	80	7320
	22100	Slickwater w/40/70 White	1.75	80	7145
	33645	Slickwater Flush	0.00	80	7510
	ISDP 5725#. 5 min 5462#, 10 min 5390#, 15 min 5386#. AIR 66 BPM. ASCP 8064#. (273862 BLWTR). Frac Horizontal Wolfcamp w/11452955 gal Slickwater, carrying 6798960# 100 Mesh Sand & 3906760# 40/70 White Sand. RDMO Halliburton, Guardian & Reliance WL. EDCC \$2,983,615. CTCC \$3,259,856. EDDC \$0. CTDC \$2,615,965. CTWC \$5,875,820. AFEC \$7,123,000. (DB/KM/RB/RS/MGW/JH/CC/KR)				
SEPT 25 2017	Prep for flowback. CTCC \$3,259,856. EDDC \$0. CTDC \$2,615,965. CTWC \$5,875,820. AFEC \$7,123,000.				
SEPT 26 2017	SICP 3400#. Open well @ 1:00 P.M.:				