

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

**Lease** University B20 11 **Well No** W101DM **Location** 185' FSL & 440' FWL  
(185 FSL & 290 FWL)  
**County** Winkler **ST** TX **Section** \_\_\_\_\_ **TwShp** \_\_\_\_\_ **Rng** \_\_\_\_\_  
**Section** 11 **Blk** 20 **Survey** \_\_\_\_\_  
**Filename** \_\_\_\_\_ **Page** 1

API # 42-495-33717

DATE	DAILY REPORTS
AUG 31 2015	Staked location 185' FNL & 290' FWL, Sec 11, Blk 20, Winkler County, Texas. Drillable location. <b>Moved location 150' west from original calls of 185' FNL &amp; 440' FWL</b> due to fence. (BLS)
FEB 25 2016	MI Sweat Construction & start building location @ 185' FNL & 290' FWL, Sec 11, Blk 20, Winkler Co., TX. (JWB)
FEB 26-29 2016	Building location. (JWB)
MAR 01-08 2016	Building location. (JWB)
MAR 09 2016	Location finished and ready for ratholes. (JWB)
MAY 23 2016	MI Ready Drill & drill ratholes. Set 80' of 20" conductor pipe & cmt to surface w/Redi-mix. Verified location by GPS @ 185' FNL & 290' FWL, Sec 11, Blk 20, UL Survey, Winkler County, TX. TWC \$31,000. (GH/LH/SN/FL)
MAY 24 2016	WO rig move. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$31,000. ETWC \$31,000. AFEC \$6,148,900. (PN/JN)
MAY 25 2016	Start MIRU Patterson/UTI #220 this A.M. w/Wilbanks Trucking Services from the University B21 5 #W101NC. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$31,000. ETWC \$31,000. AFEC \$6,148,900. (MM/KJ/PN/JN)
MAY 26 2016	MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 20% Moved in. 5% Rigged up. Move Day 1. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$31,000. ETWC \$31,000. AFEC \$6,148,900. (MM/KJ/PN/JN)
MAY 27 2016	MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 100% Moved in. 70% Rigged up. Move Day 2. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$31,000. ETWC \$31,000. AFEC \$6,148,900. (MM/KJ/PN/JN)
MAY 28 2016	Continue RU Patterson/UTI #220 w/Wilbanks Trucking Services. 100% Moved in. 85% Rigged up. Move Day 3. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$31,000. ETWC \$31,000. AFEC \$6,148,900. (MM/KJ/PN/JN)
MAY 29 2016	Continue RU Patterson/UTI #220 w/Wilbanks Trucking Services. 100% Moved in. 95% Rigged up. Move Day 4. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$31,000. ETWC \$31,000. AFEC \$6,148,900. (MM/KJ/SN/JN)
MAY 30 2016	335' (255'). Operation: WOC - NU BOPE. Formation: Surface rock - Anhy. Dev @ 335' - 1.1°. MW 8.5, Vis 34, pH 10, Cl 500, Ca 200, Solids <1%, DMC \$1,911, TMC \$1,911. Bit #1, Size 17 1/2", Make Ulterra, Type U616S (PDC), SN 25619, Jets 9-16's, In @ 80', Made 255' in 4 3/4 hrs. PP 400#, RPM 60, WOB 20k, PR 53.7. (Mix spud mud & PU BHA 2 1/2, Drlg 4 3/4, RR 2 3/4, Circ 1 1/4, Trip 2 1/2, Run csg 2, Cmt 3/4, Surv 1/4, WOC 7 1/4 hrs.) <b>Remarks:</b> Day 1. Mix spud mud & PU BHA. <b>Spudded well w/Patterson/UTI #220 @ 8:30 A.M. MDT 05/29/16.</b> Drlg from 80' to 299'. Replace saver sub. Drlg from 299' to 335'. Circ & run survey. TOOH. Held safety meeting. RU Bull Rogers & run 13 3/8" csg. Circ. RU Par Five & cmt 13 3/8" csg. WOC. Weld on 13 3/8" SOW x 13 5/8" 3k# wellhead w/base plate. BHA: Bit, Bit sub, Shock sub, 8" DC, IB, 2-8" DC's, XO, 2-6" DC's. Total BHA: 335.00'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$298,779. CTDC \$329,779. ETWC \$329,779. AFEC \$6,148,900.

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Lease University B20 11 Well No W101DM Location 185' FSL & 440' FWL  
(185 FSL & 290 FWL)  
 County Winkler ST TX Section \_\_\_\_\_ TwNShp \_\_\_\_\_ Rng \_\_\_\_\_  
 Section 11 Blk 20 Survey \_\_\_\_\_  
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API # 42-495-33717

**DATE**

**DAILY REPORTS**

(MM/KJ/SN/JN)

1	Weatherford TPGS	0.80'
1	13 3/8" 54.5# J55 ST&C Csg	42.20'
1	Weatherford Float Collar	1.50'
7	13 3/8" 54.5# J55 ST&C Csg	<u>295.52'</u>
	Total	340.02'
	Less above KB	<u>5.02'</u>
	Csg set @	335.00'

(Note: Received 9 jts of 13 3/8" 54.5# J55 ST&C csg (379.94' T-off) from Smith Bros - Manufactured by Shin Yang. Returned 1 jt of 13 3/8" 54.5# J55 ST&C csg (42.22' T-off) & 1 cutoff jt of 13 3/8" 54.5# J55 ST&C csg (28.55') to Smith Bros for credit.)

Held safety meeting. Par Five cmt w/350 sks Class C w/2% CaCl<sub>2</sub> (yd @ 1.34 cuft/sk @ 14.8 PPG). Plug down @ 10:45 P.M. MDT 05/29/16. Circ 109 sks of cmt to the pit. (Notified Lewisha, operator #18, w/TRRC but did not witness.)

MAY 31 2016

1362' (1027'). Operation: Drlg w/motor & MWD. Formation: Salt - Anhy. Dev @ 541' - 0.6°, @ 964' - 1.2°. MW 10.0, Vis 30, pH 10, Cl 153k, Ca 2800, Solids 1.8%, DMC \$481, TMC \$2,392. Bit #2, Size 12 1/4", Make Ulterra, Type U616S (PDC), SN 31749, Jets 6-16's, In @ 335', Made 1027' in 9 3/4 hrs. PP 2500#, RPM 60/100, WOB 25k, PR 105.3. (Drlg 9 3/4, Surv 3/4, WOC 4 3/4, NU BOPE 1 3/4, RS 1, Test csg & BOPE 3/4, PU dir tools & test 2 3/4, Trip 3/4, Drlg cmt, plug & floats 1/4, RR 1 1/2 hrs.) **Remarks:** Day 2. Tested wellhead to 800#. Held safety meeting. NU BOPE w/Man Welding. Test blind rams to 1500#. RS. PU dir tools & test. TIH. **At 5:15 P.M. MDT 05/30/16, test csg & BOPE to 1500# for 30 min, held OK.** Drlg plug, float & cmt. Drlg from 335' to 345'. Replace dies in ST80. Drlg from 345' to 1143' w/surveys. Repair shakers. Drlg from 1143' to 1362'. BHA: Bit, Wenzel 0.17 rpg 2.12° motor, UBHO, NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 982.93'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$75,729. CTDC \$405,508. ETWC \$405,508. AFEC \$6,148,900. (LH/GH/SN/JN)

JUN 01 2016

3129' (1767'). Operation: Drlg w/motor & MWD. Formation: Salt - Anhy. Dev @ 1345' - 1.3°, @ 1722' - 0.6°, @ 2069' - 0.4°, @ 2449' - 0.2°, @ 2828' - 1.4°. MW 10.0, Vis 30, pH 10, Cl 183k, Ca 3200, Solids <1%, DMC \$667, TMC \$3,059. Bit #2, Size 12 1/4", Make Ulterra, Type U616S (PDC), SN 31749, Jets 6-16's, In @ 335', Made 2794' in 29 3/4 hrs. PP 2600#, RPM 60/107, WOB 35k, PR 88.4. (Drlg 20, Surv 2 1/2, RS 1/2, Install rot head rubber 1 hrs.) **Remarks:** Day 3. Drlg from 1362' to 1520' w/surveys. Install rot head rubber. Drlg from 1520' to 3129' w/surveys & RS. BHA: Bit, Wenzel 0.17 rpg 2.12° motor, UBHO, NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 985.49'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$89,571. CTDC \$495,079. ETWC \$495,079. AFEC \$6,148,900. (LH/GH/SN/JN)

JUN 02 2016

4489' (1360'). Operation: Drlg w/motor & MWD. Formation: Salt - Anhy. Dev @ 3207' - 1.0°, @ 3586' - 0.3°, @ 3966' - 1.6°, @ 4345' - 1.3°. MW 10.1, Vis 30, pH 10, Cl 179k, Ca 3200, Solids <1%, DMC \$520, TMC \$3,579. Bit #2, Size 12 1/4", Make Ulterra, Type U616S (PDC), SN 31749, Jets 6-16's, In @ 335', Made 4154' in 51 1/4 hrs. PP 3200#, RPM 60/100, WOB 35k, PR 63.3. (Drlg 21 1/2, Surv 2, RS 1/2 hrs.) **Remarks:** Day 4. Drlg from 3129' to 4489' w/surveys & RS. BHA: Bit, Wenzel 0.17 rpg 2.12° motor, UBHO, NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 985.49'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$44,611. CTDC \$539,690. ETWC \$539,690. AFEC \$6,148,900. (LH/GH/SN/JN)



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(185 FSL & 290 FWL)  
County Winkler ST TX Section \_\_\_\_\_ TwnShp \_\_\_\_\_ Rng \_\_\_\_\_  
Section 11 Blk 20 Survey \_\_\_\_\_  
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**DATE**

**DAILY REPORTS**

JUN 06 2016

8808' (1488'). Operation: Drlg w/motor. Formation: Lime - Sand. Dev @ 7135' - 0.4°, @ 7605' - 0.3°, @ 8080' - 0.1°, @ 8460' - 0.4°. MW 9.2, Vis 29, pH 10, Cl 9500, Ca 3200, Solids <1%, DMC \$529, TMC \$5,947. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JK6567, Jets 6-16's, In @ 5060', Made 3748' in 40 ½ hrs. PP 3400#, RPM 60/147, WOB 35k, PR 63.3. (Drlg 23 ½, RS ½ hrs.) **Remarks:** Day 8. Drlg from 7320' to 8808' w/surveys & RS. BHA: Bit, Phoenix 0.25 rpg mtr, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, XO, XO. Total BHA: 879.02'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$56,952. CTDC \$903,841. ETWC \$903,841. AFEC \$6,148,900. (LH/GH/SN/SH)

JUN 07 2016

9255' (447'). Operation: TIH. Formation: Lime - Sand. Dev @ 8935' - 2.6°, @ 9219' - 4.2°. MW 9.3, Vis 29, pH 9, Cl 90k, Ca 3200, Solids <1%, DMC \$856, TMC \$6,803. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JK6567, Jets 6-16's, In @ 5060', Out @ 9255', Made 4195' in 50 hrs. Bit #4, Size 8 ¾", Make STC, Type FH47HYOD, SN RH5777, Jets 3-18's, In @ 9255', Made 0' in 0 hrs. PP 3100#, RPM 60/147, WOB 35k, PR 47.1. (Drlg 9 ½, RR 2, Troubleshoot pressure loss ½, BOPE & H<sub>2</sub>S drill ¼, Trip 11 ¾ hrs.) **Remarks:** Day 9. Drlg from 8808' to 9255' w/surveys. Circ. TOOH 3 stands. Repair pumps. Troubleshoot pressure loss. BOPE & H<sub>2</sub>S drill. TOOH for pressure loss. Found HIDP @ 83 stands. LD motor & PU 1-6" DC. TIH. BHA: Bit, Bit sub, 1-6" DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO. Total BHA: 880.59'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$51,176. CTDC \$955,017. ETWC \$955,017. AFEC \$6,148,900. (MM/SN/JN)

JUN 08 2016

9664' (409'). Operation: Drlg. Formation: 80% shale - 10% Sand - 10% Chert. Dev @ 9315' - 5.0°, @ 9600' - 3.3°. MW 9.3, Vis 29, pH 9, Cl 94k, Ca 4000, Solids <1%, DMC \$101, TMC \$6,904. Bit #4, Size 8 ¾", Make STC, Type FH47HYOD, SN RH5777, Jets 3-18's, In @ 9255', Made 409' in 20 ¾ hrs. PP 3200#, RPM 65, WOB 45k, PR 19.7. (Drlg 20 ¾, BOPE & H<sub>2</sub>S drill ¼, Trip 2 ½, RS ½ hrs.) **Remarks:** Day 10. Finish TIH. Drlg from 9255' to 9664' w/surveys, RS, BOPE & H<sub>2</sub>S drill. BHA: Bit, Bit sub, 1-6" DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 880.59'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$42,983. CTDC \$998,000. ETWC \$998,000. AFEC \$6,148,900. (MM/PN/JN)

JUN 09 2016

10043' MD (379'). Operation: Drlg. Formation: 70% shale - 20% Sand - 10% Chert. Dev @ 9695' - 4.1°, @ 9986' - 1.2°. MW 9.3, Vis 29, pH 9, Cl 97k, Ca 4000, Solids <1%, DMC \$4,562, TMC \$11,466. Bit #4, Size 8 ¾", Make STC, Type FH47HYOD, SN RH5777, Jets 3-18's, In @ 9255', Made 788' in 40 ¼ hrs. PP 3450#, RPM 65, WOB 55k, PR 19.4. (Drlg 19 ½, RS ½, Circ 1, Run Gyro 3 hrs.) **Remarks:** Day 11. Drlg from 9664' to 10012' w/surveys & RS, Circ. Held safety meeting. Ran Gyro w/Stryker @ 10012' MD. **Bottom hole closure @ 9932' MD - 82.9' @ 120.6° Azm.** Resumed drlg from 10012' to 10043' MD. BHA: Bit, Bit sub, 1-6" DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 880.59'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$49,746. CTDC \$1,047,746. ETWC \$1,047,746. AFEC \$6,148,900. (MM/PN/JN)

JUN 10 2016

10145' MD (102'). Operation: Trip for failed MWD. Formation: 70% Shale - 30% Sand. Dev @ 10073' - 0.9°. MW 9.3, Vis 29, pH 9, Cl 97k, Ca 4000, Solids <1%, DMC \$694, TMC \$12,160. Bit #4, Size 8 ¾", Make STC, Type FH47HYOD, SN RH5777, Jets 3-18's, In @ 9255', Out @ 10073', Made 818' in 42 ¼ hrs. Bit #5, Size 8 ¾", Make STC, Type Z613 (PDC), SN JK1827, Jets 6-16's, In @ 10073', Made 72' in 2 hrs. PP 4100#, RPM 60/164, WOB 25k, PR 25.5. (Drlg 4, RS 1, Circ ½, Trips 15, PU dir tools & test 2 ½, Troubleshoot MWD ½, Weather ½ hrs.) **Remarks:** Day 12. Drlg from 10043' to 10073' MD. TOOH. PU dir tools & test. TIH w/RS. Shut down for weather. Finish TIH. Drlg from 10073' to 10145' MD. Troubleshoot MWD. Slug 80 bbls of 10# down DP. TOOH. BHA: Bit, Stryker 0.28 rpg 1.5° adj mtr, UBHO, NMDC, Flex NMDC, XO, 27-6" DC's, XO, 33-5" DP, XO. Total BHA: 1956.66'. No fluid lost

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(185 FSL & 290 FWL)  
 County Winkler ST TX Section \_\_\_\_\_ TwnShp \_\_\_\_\_ Rng \_\_\_\_\_  
 Section 11 Blk 20 Survey \_\_\_\_\_  
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**DATE DAILY REPORTS**

JUN 10- CONT or gained. EDCC \$0. CTCC \$0. EDDC \$42,639. CTDC \$1,090,385. ETWC \$1,090,385. AFEC \$6,148,900. (MM/PN/JN)

JUN 11 2016 10567' MD (422'). Operation: Drlg w/motor & MWD. Formation: 70% Shale - 30% Sand. Dev @ 10449' - 1.3°. MW 9.3, Vis 29, pH 9, Cl 94k, Ca 4000, Solids <1%, DMC \$101, TMC \$12,261. Bit #5, Size 8 3/4", Make STC, Type Z613 (PDC), SN JK1827, Jets 6-16's, In @ 10073', Made 494' in 10 3/4 hrs. PP 2850#, RPM 60/129, WOB 25k, PR 48.2. (Drlg 8 3/4, RS 1/2, Trip 10 1/2, Replace MWD & test 1 1/2, Cut drlg line 2 1/2, Surv 1/4 hrs.) **Remarks:** Day 13. TOOH. Replace MWD & test. TIH to 5010' MD. Cut drlg line. RS. Finish TIH. Drlg from 10073' to 10567' MD w/survey. BHA: Bit, Stryker 0.28 rpg 1.5° adj mtr, UBHO, NMDC, Flex NMDC, XO, 27-6" DC's, XO, 33-5" DP, XO. Total BHA: 1956.66'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$39,990. CTDC \$1,130,375. ETWC \$1,130,375. AFEC \$6,148,900. (MM/PN/JN)

JUN 12 2016 11400' MD (833'). Operation: TOOH to PU curve assy. Formation: 70% Shale - 30% Lime. Dev @ 10827' - 0.7°, @ 11302' - 1.3°. MW 9.3, Vis 29, pH 9, Cl 110k, Ca 5200, Solids <1%, DMC \$577, TMC \$12,838. Bit #5, Size 8 3/4", Make STC, Type Z613 (PDC), SN JK1827, Jets 6-16's, In @ 10073', Made 1327' in 28 1/4 hrs. PP 2900#, RPM 60/129, WOB 35k, PR 47.6. (Drlg 17 1/2, RS 1/2, Trips 2 1/2, Surv 2 1/2, Circ 1 hrs.) **Remarks:** Day 14. Drlg from 10567' to 11400' MD w/surveys & RS. Circ sweep & pump slug. TOOH. BHA: Bit, Stryker 0.28 rpg 1.5° adj mtr, UBHO, NMDC, Flex NMDC, XO, 27-6" DC's, XO, 33-5" DP, XO. Total BHA: 1956.66'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$42,453. CTDC \$1,172,828. ETWC \$1,172,828. AFEC \$6,148,900. (MM/PN/LJ)

JUN 13 2016 11502' MD (102'). Operation: Drlg w/MWD & motor. Formation: 50% Shale - 40% Lime - 10% Sand. MW 9.3, Vis 38, WL 6, pH 9, PV 10, YP 6, Gels 4/9, FC 1/32", Cl 95k, Ca 4000, Solids <1%, DMC \$12,603, TMC \$25,441. Bit #5, Size 8 3/4", Make STC, Type Z613 (PDC), SN JK1827, Jets 6-16's, In @ 10073', Out @ 11400', Made 1327' in 28 1/4 hrs. Bit #6, Size 8 3/4", Make HTC, Type HP624 (PDC), SN JK5260526, Jets 4-18's, In @ 11400', Made 102' in 7 1/2 hrs. PP 4000#, RPM 0/164, WOB 20k, PR 13.6. (Drlg 7 1/2, Surv 1/2, RS 1/2, Trip 12 1/2, Circ 1/2, Replace dir tools & test 2 1/2 hrs.) **Remarks:** Day 15. TOOH. Replace dir tools & test. TIH. RS. Circ. Drlg from 11400' to 11502' MD w/surveys. BHA: Bit, Stryker 0.28 rpg 2.25° adj mtr, UBHO, 2-NMDC's, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO. Total BHA: 1982.79'. No fluid lost or gained. BG 5050 units. CG 5050 units. TG 5575 units. EDCC \$0. CTCC \$0. EDDC \$79,235. CTDC \$1,252,063. ETWC \$1,252,063. AFEC \$6,148,900. (MM/LJ)

**11390' MD (11387.0' TVD) 0.6° Inc @ 303.0° Azm  
11422' MD (11419.0' TVD) 2.3° Inc @ 145.2° Azm**

JUN 14 2016 12200' MD (698'). Operation: Drlg w/ motor & MWD. Formation: 90% Shale - 10% Lime. MW 9.3, Vis 38, WL 6, pH 9, PV 10, YP 6, Gels 4/9, FC 1/32", Cl 95k, Ca 4000, Solids <1%, DMC \$0, TMC \$25,441. Bit #6, Size 8 3/4", Make HTC, Type HP624 (PDC), SN 5260526, Jets 4-18's, In @ 11400', Made 800' in 25 1/2 hrs. PP 4500#, RPM 60/164, WOB 40k, PR 38.8. (Drlg 18, Surv 5, RS 1/2, BOPE & H<sub>2</sub>S drills 1/2 hrs.) **Remarks:** Day 16. Drlg from 11502' to 12200' MD w/surveys, RS, BOPE & H<sub>2</sub>S drills. BHA: Bit, Stryker 0.28 rpg 2.25° adj mtr, UBHO, 2-NMDC's, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO. Total BHA: 1982.79'. No fluid lost or gained. BG 1150 units. CG 1400 units. EDCC \$0. CTCC \$0. EDDC \$60,855. CTDC \$1,312,918. ETWC \$1,312,918. AFEC \$6,148,900. (LH/GH/SN/JN)

**11454' MD (11450.9' TVD) 6.4° Inc @ 148.2° Azm  
11485' MD (11481.6' TVD) 10.9° Inc @ 144.8° Azm**

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(185 FSL & 290 FWL)  
County Winkler ST TX Section          TwnShp          Rng           
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**DAILY REPORTS**

JUN 14- CONT

11517' MD (11512.8' TVD) 14.4° Inc @ 144.1° Azm  
11549' MD (11543.5' TVD) 18.1° Inc @ 144.7° Azm  
11580' MD (11572.6' TVD) 22.3° Inc @ 148.8° Azm  
11612' MD (11601.9' TVD) 24.9° Inc @ 150.1° Azm  
11644' MD (11630.6' TVD) 27.5° Inc @ 150.3° Azm  
11676' MD (11658.7' TVD) 30.0° Inc @ 151.0° Azm  
11708' MD (11686.1' TVD) 32.1° Inc @ 152.3° Azm  
11739' MD (11712.0' TVD) 34.6° Inc @ 155.5° Azm  
11771' MD (11738.1' TVD) 36.0° Inc @ 158.0° Azm  
11803' MD (11763.7' TVD) 37.6° Inc @ 159.4° Azm  
11834' MD (11788.0' TVD) 39.3° Inc @ 160.5° Azm  
11866' MD (11812.4' TVD) 41.5° Inc @ 161.5° Azm  
11898' MD (11836.0' TVD) 43.3° Inc @ 161.3° Azm  
11929' MD (11858.3' TVD) 44.6° Inc @ 161.1° Azm  
11961' MD (11880.9' TVD) 45.8° Inc @ 161.0° Azm  
11993' MD (11902.8' TVD) 47.7° Inc @ 161.8° Azm  
12024' MD (11923.1' TVD) 50.3° Inc @ 162.4° Azm  
12056' MD (11943.1' TVD) 52.4° Inc @ 162.1° Azm  
12087' MD (11961.5' TVD) 54.7° Inc @ 161.4° Azm

JUN 15 2016

12315' MD (115'). Operation: Running 7" csg. Formation: 100% Shale. MW 9.5, Vis 40, WL 10, pH 10.5, PV 10, YP 9, Gels 4/7, FC 1/32", Cl 108k, Ca 4800, Solids 2.0%, DMC \$8,740, TMC \$34,181. Bit #6, Size 8 3/4", Make HTC, Type HP624 (PDC), SN 5260526, Jets 4-18's, In @ 11400', Out @ 12315', Made 915' in 28 1/4 hrs. PP 4500#, RPM 60/164, WOB 40k, PR 41.8. (Drlg 2 3/4, Surv 1 3/4, Circ 2, Trip 11 1/4, RS 1/2, LD dir tools 1 1/4, Run csg 4 1/2 hrs.)  
**Remarks:** Day 17. Drlg from 12200' to 12315' MD w/surveys. Circ. TOO. LD dir tools. RS. Held safety meeting. RU Bull Rogers & run 7" csg w/torque turn. BHA: Bit, Stryker 0.28 rpg 2.25° adj mtr, UBHO, 2-NMDC's, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO. Total BHA: 1982.79'. No fluid lost or gained. BG 900 units. CG 1000 units. EDCC \$0. CTCC \$0. EDDC \$55,166. CTDC \$1,368,084. ETWC \$1,368,084. AFEC \$6,148,900. (LH/GH/SN/JN)

12119' MD (11979.4' TVD) 57.2° Inc @ 161.1° Azm  
12150' MD (11995.7' TVD) 59.6° Inc @ 161.6° Azm  
12182' MD (12011.1' TVD) 62.7° Inc @ 161.6° Azm  
12214' MD (12024.5' TVD) 67.9° Inc @ 161.0° Azm  
12245' MD (12034.8' TVD) 73.2° Inc @ 160.9° Azm  
12267' MD (12040.4' TVD) 77.1° Inc @ 161.8° Azm  
Projected to the bit @  
12315' MD (12049.8' TVD) 80.5° Inc @ 161.8° Azm

JUN 16 2016

12315' MD (0'). Operation: Cmtng 7" csg. Formation: Shale. MW 9.6, Vis 45, WL 10, pH 10, PV 10, YP 12, Gels 4/6, FC 1/32", Cl 108k, Ca 4800, Solids 1.6%, DMC \$101, TMC \$34,282. (Run csg 12, Work csg 5, Circ 1, Cmt 6 hrs.) **Remarks:** Day 18. Run 7" csg w/torque turn w/Bull Rogers. Work csg from 12030' to 12258' MD. Could not work csg below 12258' MD. Circ csg capacity. Cmt w/Par Five. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$327,955. CTDC \$1,696,039. ETWC \$1,696,039. AFEC \$6,148,900. (LH/GH/SN/JN)

1	Weatherford Float Shoe	1.63'
1	7" 29# P110 BT&C Csg	38.10'
1	Weatherford Float Collar	1.75'
25	7" 29# P110 BT&C Csg	985.23'

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

Lease University B20 11 Well No W101DM Location 185' FSL & 440' FWL  
(185 FSL & 290 FWL)  
County Winkler ST TX Section \_\_\_\_\_ TwnShp \_\_\_\_\_ Rng \_\_\_\_\_  
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1	7" 29# P110 BT&C x LT&C XO Csg	35.92'
112	7" 29# P110 LT&C Csg	4440.07'
12	7" 29# P110 LT&C Bond Coated Csg	459.88'
1	Weatherford ECP set @ 6290'	24.69'
1	Weatherford DV Tool set @ 6269'	2.20'
12	7" 29# P110 LT&C Csg	477.28'
28	7" 29# P110 LT&C Bond Coated Csg	1101.62'
119	7" 29# P110 LT&C Csg	<u>4708.25'</u>
	Total	12276.62'
	Less above KB	<u>18.62'</u>
	Csg set @	12258.00'

(Note: Received 26 jts of 7" 29# P110 BT&C csg (1023.33' T-off), 1 jt of 7" 29# P110 LT&C x BT&C XO csg (35.92' T-off) 252 jts of 7" 29# P110 LT&C csg (9985.55' T-off), 40 jts of 7" 29# P110 LT&C bond coated csg (1561.50' T-off), from WB Supply - Manufactured by IPSCO. Returned 9 jts of 7" 29# P110 LT&C csg (359.95' T-off) & 1 cutoff csg (44.62') to WB Supply for credit.

Held safety meeting. Par Five cmt 1<sup>st</sup> stage w/300 sks PVL w/10% Gel, 0.7% Retarder, 8% Plexecrete, 0.4% Defoamer (yd @ 2.63 cuft/sk @ 11.2 PPG). Tail w/400 sks Class H w/0.3% Retarder, 0.3% Fluid Loss, 0.4% Defoamer (yd @ 1.19 cuft/sk @ 15.6 PPG). Plug down @ 4:00 A.M. MDT 06/16/16. Pressured up to 3800# to set ECP. **Tested csg to 8000# for 5 min, held OK.** Dropped bomb. Opened DV tool w/700#. Circ 107 sks of cmt to the pit.

JUN 17 2016

12315' MD (0'). Operation: PU dir tools. Formation: Shale. MW 9.6, Vis 45, WL 10, pH 10, PV 10, YP 12, Gels 4/6, FC 1/32", Cl 108k, Ca 4800, Solids 1.6%, DMC \$270, TMC \$34,552. Bit #7, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 7160061, Jets 5-16's, In @ 12315', Made 0' in 0 hrs. (Cmt 1, WOC 12, Test BOPE 2 1/2, RS 1, LD DP & DC's 5 1/2, PU dir tools & test 2 hrs.) **Remarks:** Day 19. Cmt 2<sup>nd</sup> stage w/Par Five. Held safety meeting. ND BOPE w/Man Welding. Set wellhead slips w/250k#. NU 11" 5k# x 11" 5k# csg spool. Tested csg spool pack-off to 3500#. NU BOPE. Tested BOPE to 5000# high/250# low & Annular to 2500# high/250# low. Tested standpipe & mud lines to the pumps to 5000#. BHA: Bit, Baker 0.27 rpg 1.80° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO. Total BHA: 99.13'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$111,607. CTDC \$1,807,646. ETWC \$1,807,646. AFEC \$6,148,900. (LH/GH/SN/JN)

Cmt 2<sup>nd</sup> stage w/100 sks Class PVL w/10% Gel, 8% Plexecrete, 0.3% Retarder, 0.4% Defoamer & 1% Chemical Extender (yd @ 2.64 cuft/sk @ 11.2 PPG). Tail w/100 sks Class C w/0.2% Retarder (yd @ 1.32 cuft/sk @ 14.8 PPG). Plug down @ 7:00 A.M. MDT 06/16/16. Did not circ cmt. (Notified Isabel w/TRRC but did not witness.)

JUN 18 2016

12431' MD (116'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.7, Vis 65, HTHP 8, PV 29, YP 18, Gels 14/26, FC 1/32", Cl 42k, Solids 3.7%, Oil 67%, ES 580, DMC \$821, TMC \$35,373. Bit #7, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 7160061, Jets 5-16's, In @ 12315', Made 116' in 4 1/4 hrs. PP 4700#, RPM 55/83, WOB 20k, PR 27.3. (Drlg 4 1/4, Trip 8, Circ 1, RS 1/2, Drlg DV tool, plug, float & cmt 3, Clean pits 5 1/4, Displace w/OBM 1 1/4, Test csg 1/2, FIT test 1/4 hrs.) **Remarks:** Day 20. TIH. Drlg DV tool @ 6342' MD. Continue TIH. **At 3:00 P.M. 06/17/16, tested csg to 2500# for 30 min, held OK.** Drlg plug, float & cmt. Clean pits. Displace hole with OBM. **FIT test to EMW of 13.5 PPG.** Drlg from 12315' to 12431' MD. BHA: Bit, Baker 0.27 rpg 1.80° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO. Total BHA: 99.13'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC





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County Winkler ST TX Section \_\_\_\_\_ TwnShp \_\_\_\_\_ Rng \_\_\_\_\_  
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9:45 P.M. MDT, 06/26/16. Pressured up to 8000# to expand liner hanger. Displaced 7" csg w/418 bbls BW. Did not circ cmt off of liner. Pulled 50k# & pushed 40k# to test liner hanger. Tested liner top to 1500# for 15 min, held OK. Released from liner. (Notified Kayleigh w/TRRC but did not witness).

JUN 27 2016

16600' MD (0'). Operation: Rig released to move. DMC \$2,465, TMC \$66,072. (LD DP 12 ¼, RS ½, RR 2 ¾, ND BOPE & Install tbg spool 4 ½, RD 4 hrs.) **Remarks:** Day 29. LD 4" DP. Repair catwalk. Continue LD DP. Held safety meeting w/Man Welding. ND BOPE & NU 11" 5k# x 7 1/16" 10k# tbg spool w/capping flange. Tested tbg spool pack-off to 3500#. **Rig released to move @ 2:00 A.M. MDT 06/27/16.** Start MO Patterson/UTI #220 w/Lightning Oilfield Services to Zuma 3 #B203BO this A.M. EDCC \$108,261. CTCC \$279,083. EDDC \$47,389. CTDC \$2,321,821. ETWC \$2,600,904. AFEC \$6,216,200. (KJ/MM/PN/SH)

JUN 28-29 2016

Continue MO Patterson/UTI #220 w/Lightning Oilfield Services. EDCC \$0. CTCC \$279,083. EDDC \$0. CTDC \$2,321,821. ETWC \$2,600,904. AFEC \$6,216,200. (GH/LH/JN)

JUN 30 2016

Continue MO Patterson/UTI #220 w/Lightning Oilfield Services. EDCC \$0. CTCC \$279,083. EDDC \$0. CTDC \$2,321,821. ETWC \$2,600,904. AFEC \$6,216,200. (LH/SN/JN)

JUL 01 2016

Finish MO Patterson/UTI #220 w/Lightning Oilfield Services. Back drag location & set anchors. WO PU. Filling frac pond. EDCC \$0. CTCC \$279,083. EDDC \$0. CTDC \$2,321,821. ETWC \$2,600,904. AFEC \$6,216,200. (LH/SN/JN/DM)

JUL 05- 2016

WO PU. Filling frac pond. EDCC \$0. CTCC \$279,083. EDDC \$0. CTDC \$2,321,821. ETWC \$2,600,904. AFEC \$6,216,200.

JUL 06-07 2016

WO PU. Filling frac pond. CTCC \$279,083. CTDC \$2,321,821. CTWC \$2,600,904. AFEC \$6,216,200.

JUL 08-12 2016

WO PU. Filling frac pond. EDCC \$0. CTCC \$279,083. EDDC \$0. CTDC \$2,321,821. CTWC \$2,600,904. AFEC \$6,216,200.

JUL 13 2016

SICP 0#. Loaded backside w/1 bbl. Tested backside for 30 mins w/250#, held OK. MIRU Motley & Azul pump truck. RIH w/CCL, GR, CNL & CBL. Logged 11344' to surface (found TOC @ 4752'). SWI. RDMO Motley WL. Prep to TCP. EDCC \$6,244. CTCC \$285,327. EDDC \$0. CTDC \$2,321,821. CTWC \$2,607,148. AFEC \$6,216,200. (KR/ARM)

JUL 14 2016

SICP 0#. ND 10k capping flange. NU (MOC K) 10k frac valve. Tested frac valve for 30 mins to 3000#, held OK. MIRU Cudd 2" coil unit & TTS. RIH w/3 ¾" bit, motor, hydraulic disconnect, BPV, coil connector & 2" coil to PBTD @ 16586'. POOH. RIH w/TCP guns, hydraulic disconnect, BPV, coil connector & 2" coil. Set guns on depth. Dropped ⅝" ball. Pumped 54 bbls to seat ball. Pressured up to 4100#. **Perforated 1<sup>st</sup> Wolfcamp @ 16578' (6 holes), 16554' (6 holes), 16530' (6 holes), 16506' (6 holes), 16482 (6 holes), 16458 (6 holes).** Total of 6', 36 holes. Guns loaded @ .42" EHD, 19 GC, 39" pen & 60° phasing. POOH (all guns fired). SWI. RDMO Cudd & TTS. EDCC \$41,756. CTCC \$327,083. EDDC \$0. CTDC \$2,321,821. CTWC \$2,648,904. AFEC \$6,216,200. (KR/ARM)

JUL 15 2016

MIRU Halliburton & water transfer. Prep to frac. CTCC \$327,083. EDDC \$0. CTDC \$2,321,821. CTWC \$2,648,904. AFEC \$6,216,200. (KM/ZA)

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JUL 16 2016	Prep to frac. CTCC \$327,083. EDDC \$0. CTDC \$2,321,821. CTWC \$2,648,904. AFEC \$6,216,200. (KM/ZA)
JUL 17 2016	SICP 1175#. Frac stages 1 - 2. WL stage 3 @ report time. CTCC \$327,083. EDDC \$0. CTDC \$2,321,821. CTWC \$2,648,904. AFEC \$6,216,200. (KM/ZA)
JUL 18 2016	SICP 5050#. Frac stages 3 - 5. WL stage 6 @ report time. CTCC \$327,083. EDDC \$0. CTDC \$2,321,821. CTWC \$2,648,904. AFEC \$6,216,200. (KM/ZA)
JUL 19 2016	SICP 5100#. Frac stages 6 - 9. WL stage 10 @ report time.  MI & set the following:  4 - 500 bbl National steel tanks w/bottom 18" coated (SN SA-46525, SA-46528, SA-46529 & SA-46642) 2 - 500 bbl National steel tanks 100% coated (SN SA-45336 & SA-45556) 1 - Azteca 36" x 10' x 1440# 3 phase separator (SN MB1650) 1 - Azteca 6' x 15' x 125# FWKO (SN MB1652) 1 - Azteca 30" x 10' x 250# 2 phase separator (SN MB1651) 1 - Azteca 6' x 20' x 125# HT (SN MB1653) 1 - Enertech 30" x 10' x 125# 2 phase separator (SN #12442) 1 - 3" Crane meter tube (SN 314-0253) 1 - 250" x 1500# EFM (SN T162152751)  Laid 600' of 4" SDR 9 polyline to tie point & 1000' of 4" x 52 pipe to tie point. Installed approximately 100' of electric power line to location. EDCC \$379,650. CTCC \$706,733. EDDC \$0. CTDC \$2,321,821. CTWC \$3,028,554. AFEC \$6,216,200. (KM/ZA/DM)
JUL 20 2016	SICP 4930#. Frac stages 9 - 11. WL for stage 12 @ report time. CTCC \$706,733. EDDC \$0. CTDC \$2,321,821. CTWC \$3,028,554. AFEC \$6,216,200. (ZA/SP/MGW)
JUL 21 2016	SICP 5330#. Frac stages 12 - 14. WL stage 15 @ report time. CTCC \$706,733. EDDC \$0. CTDC \$2,321,821. CTWC \$3,028,554. AFEC \$6,216,200. (JL/SP/MGW)
JUL 22 2016	SICP 5290#. Frac stages 15 - 18. WL stage 19 @ report time. EDCC \$19,258. CTCC \$725,991. EDDC \$0. CTDC \$2,321,821. CTWC \$3,047,812. AFEC \$6,216,200. (KM/SP/MGW)
JUL 23 2016	SICP 4700#. Frac stages 19 - 22. RIH w/WL for stage 23 @ report time. CTCC \$725,991. CTDC 2,321,821. CTWC \$3,047,812. AFEC \$6,216,200. (MGW/KM/SP/CMB)
JUL 24 2016	SICP 5230#. Frac stages 23-26. Frac stage 27 @ report time. CTCC \$725,991. CTDC 2,321,821. CTWC \$3,047,812. AFEC \$6,216,200. (KM/SP/CMB)
JUL 25 2016	SICP 1175#. MIRU Halliburton, Guardian & Halliburton WL. <b>Frac Horizontal Wolfcamp w/11775386 gals Slickwater, carrying 7140000# 100 Mesh Sand, 3487500# 40/70 White Sand as follows (planned).</b>



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Stage #3 @ 16260', 16242', 16228', 16206', 16188', 16170'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	32	8650
20000	Slickwater w/100 Mesh	0.25	62	8655
30000	Slickwater w/100 Mesh	0.50	68	8660
38000	Slickwater w/100 Mesh	1.00	71	8670
40000	Slickwater w/100 Mesh	1.50	75	8630
32000	Slickwater w/100 Mesh	1.75	78	8715
32000	Slickwater w/100 Mesh	2.00	71	8790
12000	Slickwater w/40/70 White	0.25	74	8595
32000	Slickwater w/40/70 White	0.50	78	8750
36000	Slickwater w/40/70 White	1.00	78	8680
31000	Slickwater w/40/70 White	1.25	77	8705
15000	Slickwater w/40/70 White	1.50	73	8630
35897	Slickwater Flush	0	73	8550

ISDP 5670#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/32243 gals SW @ 8 BPM & 6000#. Set plug @ 16143'. Pressure test plug to 6350#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 16116' (1', 6 holes), 16098' (1', 6 holes), 16080' (1', 6 holes), 16062' (1', 6 holes), 16044' (1', 6 holes), 16026' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #4 as follows:

Stage #4 @ 16116', 16098', 16080', 16062', 16044', 16026'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	56	8670
20000	Slickwater w/100 Mesh	0.25	65	8705
30000	Slickwater w/100 Mesh	0.50	69	8715
38000	Slickwater w/100 Mesh	1.00	69	8470
40000	Slickwater w/100 Mesh	1.50	70	8420
32000	Slickwater w/100 Mesh	1.75	71	8460
32000	Slickwater w/100 Mesh	2.00	65	8630
12000	Slickwater w/40/70 White	0.25	69	8450
32000	Slickwater w/40/70 White	0.50	69	8330
36000	Slickwater w/40/70 White	1.00	70	8325
31000	Slickwater w/40/70 White	1.25	73	8470
15000	Slickwater w/40/70 White	1.50	68	8560
35808	Slickwater Flush	0	68	8375

ISDP 5675#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/32028 gals SW @ 8 BPM & 6350#. Set plug @ 15999'. Pressure test plug to 6500#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15972' (1', 6 holes), 15954' (1', 6 holes), 15936' (1', 6 holes), 15918' (1', 6 holes), 15900' (1', 6 holes), 15882' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #5 as follows:

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Stage #5 @ 15972', 15954', 15936', 15918', 15900', 15882'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	37	8245
20000	Slickwater w/100 Mesh	0.25	53	8315
30000	Slickwater w/100 Mesh	0.50	60	8330
38000	Slickwater w/100 Mesh	1.00	66	8325
40000	Slickwater w/100 Mesh	1.50	69	8360
32000	Slickwater w/100 Mesh	1.75	70	8400
32000	Slickwater w/100 Mesh	2.00	68	8635
12000	Slickwater w/40/70 White	0.25	68	8420
32000	Slickwater w/40/70 White	0.50	71	8400
36000	Slickwater w/40/70 White	1.00	73	8400
31000	Slickwater w/40/70 White	1.25	74	8425
15000	Slickwater w/40/70 White	1.50	68	8520
35720	Slickwater Flush	0	70	8430

ISDP 5780#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/30974 gals SW @ 8 BPM & 6010#. Set plug @ 15855'. Pressure test plug to 6500#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15828' (1', 6 holes), 15810' (1', 6 holes), 15792' (1', 6 holes), 15774' (1', 6 holes), 15756' (1', 6 holes), 15738' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #6 as follows:

Stage #6 @ 15828', 15810', 15792', 15774', 15756', 15738'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	59	8590
20000	Slickwater w/100 Mesh	0.25	70	8650
30000	Slickwater w/100 Mesh	0.50	73	8665
38000	Slickwater w/100 Mesh	1.00	77	8650
40000	Slickwater w/100 Mesh	1.50	80	8640
32000	Slickwater w/100 Mesh	1.75	80	8560
32000	Slickwater w/100 Mesh	2.00	77	8685
12000	Slickwater w/40/70 White	0.25	80	8600
32000	Slickwater w/40/70 White	0.50	80	8530
36000	Slickwater w/40/70 White	1.00	80	8520
31000	Slickwater w/40/70 White	1.25	80	8510
15000	Slickwater w/40/70 White	1.50	80	8720
35631	Slickwater Flush	0	75	8475

ISDP 5840#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/31767 gals SW @ 8 BPM & 7190#. Set plug @ 15711'. Pressure test plug to 6340#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15684' (1', 6 holes), 15666' (1', 6 holes), 15648' (1', 6 holes), 15630' (1', 6 holes), 15612' (1', 6 holes), 15594' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #7 as follows:

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Stage #7 @ 15684', 15666', 15648', 15630', 15612', 15594'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	50	8750
20000	Slickwater w/100 Mesh	0.25	65	8630
30000	Slickwater w/100 Mesh	0.50	72	8770
38000	Slickwater w/100 Mesh	1.00	75	8695
40000	Slickwater w/100 Mesh	1.50	72	8350
32000	Slickwater w/100 Mesh	1.75	80	8715
32000	Slickwater w/100 Mesh	2.00	76	8690
12000	Slickwater w/40/70 White	0.25	80	8675
32000	Slickwater w/40/70 White	0.50	80	8625
36000	Slickwater w/40/70 White	1.00	78	8580
31000	Slickwater w/40/70 White	1.25	79	8665
15000	Slickwater w/40/70 White	1.50	73	8620
35542	Slickwater Flush	0	68	8180

ISDP 5745#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/31594 gals SW @ 8 BPM & 6285#. Set plug @ 15567'. Pressure test plug to 6690#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15540' (1', 6 holes), 15522' (1', 6 holes), 15504' (1', 6 holes), 15486' (1', 6 holes), 15468' (1', 6 holes), 15450' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #8 as follows:

Stage #8 @ 15540', 15522', 15504', 15486', 15468', 15450'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	42	8660
20000	Slickwater w/100 Mesh	0.25	57	8415
30000	Slickwater w/100 Mesh	0.50	61	8400
38000	Slickwater w/100 Mesh	1.00	64	8430
40000	Slickwater w/100 Mesh	1.50	66	8415
32000	Slickwater w/100 Mesh	1.75	69	8405
32000	Slickwater w/100 Mesh	2.00	65	8650
12000	Slickwater w/40/70 White	0.25	66	8500
32000	Slickwater w/40/70 White	0.50	66	8400
36000	Slickwater w/40/70 White	1.00	70	8570
31000	Slickwater w/40/70 White	1.25	66	8210
15000	Slickwater w/40/70 White	1.50	66	8515
35453	Slickwater Flush	0	66	8400

ISDP 5805#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/29699 gals SW @ 8 BPM & 6220#. Set plug @ 15423'. Pressure test plug to 6500#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15396' (1', 6 holes), 15378' (1', 6 holes), 15360' (1', 6 holes), 15342' (1', 6 holes), 15324' (1', 6 holes), 15306' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #9 as follows:

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

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Stage #9 @ 15396', 15378', 15360', 15342', 15324', 15306'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	48	8390
20000	Slickwater w/100 Mesh	0.25	59	8450
30000	Slickwater w/100 Mesh	0.50	61	8415
38000	Slickwater w/100 Mesh	1.00	65	8380
40000	Slickwater w/100 Mesh	1.50	69	8440
32000	Slickwater w/100 Mesh	1.75	70	8460
32000	Slickwater w/100 Mesh	2.00	68	8585
12000	Slickwater w/40/70 White	0.25	70	8400
32000	Slickwater w/40/70 White	0.50	70	8390
36000	Slickwater w/40/70 White	1.00	73	8480
31000	Slickwater w/40/70 White	1.25	73	8490
15000	Slickwater w/40/70 White	1.50	67	8550
35364	Slickwater Flush	0	69	8440

ISDP 5830#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/29064 gals SW @ 8 BPM & 5850#. Set plug @ 15275'. Pressure test plug to 6500#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15252' (1', 6 holes), 15234' (1', 6 holes), 15216' (1', 6 holes), 15194' (1', 6 holes), 15180' (1', 6 holes), 15162' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #10 as follows:

Stage #10 @ 15252', 15234', 15216', 15194', 15180', 15162'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	42	8475
20000	Slickwater w/100 Mesh	0.25	63	8470
30000	Slickwater w/100 Mesh	0.50	66	8330
38000	Slickwater w/100 Mesh	1.00	75	8540
40000	Slickwater w/100 Mesh	1.50	77	8555
32000	Slickwater w/100 Mesh	1.75	77	8530
32000	Slickwater w/100 Mesh	2.00	72	8700
12000	Slickwater w/40/70 White	0.25	75	8480
32000	Slickwater w/40/70 White	0.50	77	8470
36000	Slickwater w/40/70 White	1.00	77	8570
31000	Slickwater w/40/70 White	1.25	77	8580
15000	Slickwater w/40/70 White	1.50	66	8715
35364	Slickwater Flush	0	67	8560

ISDP 5940#. RIH w/Halliburton 4 1/2" 10k ball drop Fas-Drill plug, 2 3/8" ball (1.4 SG) & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/39386 gals SW @ 8 BPM & 6130#. Set plug @ 15135'. Pressure test plug to 7000#. PU off plug and set guns on depth. Fire first gun, establish 2 BPM rate & fire remaining guns on fly. **Perforated @ 15108' (1', 6 holes), 15090' (1', 6 holes), 15072' (1', 6 holes), 15054' (1', 6 holes), 15036' (1', 6 holes), 15018' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Frac stage #11 as follows:

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500 WEST TEXAS, SUITE 1020  
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Stage #11 @ 15108', 15090', 15072', 15054', 15036', 15018'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	39	8540
20000	Slickwater w/100 Mesh	0.25	60	8440
30000	Slickwater w/100 Mesh	0.50	68	8460
38000	Slickwater w/100 Mesh	1.00	71	8460
40000	Slickwater w/100 Mesh	1.50	75	8475
32000	Slickwater w/100 Mesh	1.75	77	8480
32000	Slickwater w/100 Mesh	2.00	72	8600
12000	Slickwater w/40/70 White	0.25	77	8500
32000	Slickwater w/40/70 White	0.50	77	8400
36000	Slickwater w/40/70 White	1.00	79	8500
31000	Slickwater w/40/70 White	1.25	77	8540
15000	Slickwater w/40/70 White	1.50	73	8550
35186	Slickwater Flush	0	75	8450

ISDP 5945#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/41104 gals SW @ 10 BPM & 6750#. Set plug @ 14995'. **Perforated @ 14964' (1', 6 holes), 14946' (1', 6 holes), 14928' (1', 6 holes), 14910' (1', 6 holes), 14892' (1', 6 holes), 14874' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #12 as follows:

Stage #12 @ 14964', 14946', 14928', 14910', 14892', 14874'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	50	8475
20000	Slickwater w/100 Mesh	0.25	57	8470
30000	Slickwater w/100 Mesh	0.50	62	8460
38000	Slickwater w/100 Mesh	1.00	69	8570
40000	Slickwater w/100 Mesh	1.50	68	8500
32000	Slickwater w/100 Mesh	1.75	70	8560
32000	Slickwater w/100 Mesh	2.00	63	8570
12000	Slickwater w/40/70 White	0.25	67	8440
32000	Slickwater w/40/70 White	0.50	72	8540
36000	Slickwater w/40/70 White	1.00	68	8230
31000	Slickwater w/40/70 White	1.25	72	8470
15000	Slickwater w/40/70 White	1.50	69	8600
35098	Slickwater Flush	0	72	8580

ISDP 5810#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/41104 gals SW @ 11 BPM & 7500#. Set plug @ 14847'. **Perforated @ 14820' (1', 6 holes), 14802' (1', 6 holes), 14784' (1', 6 holes), 14766' (1', 6 holes), 14748' (1', 6 holes), 14730' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #13 as follows:

Stage #13 @ 14820', 14802', 14784', 14766', 14748', 14730'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	41	8515
20000	Slickwater w/100 Mesh	0.25	62	8650

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30000	Slickwater w/100 Mesh	0.50	62	8625
38000	Slickwater w/100 Mesh	1.00	65	8675
40000	Slickwater w/100 Mesh	1.50	70	8380
32000	Slickwater w/100 Mesh	1.75	73	8410
32000	Slickwater w/100 Mesh	2.00	73	8670
12000	Slickwater w/40/70 White	0.25	74	8575
32000	Slickwater w/40/70 White	0.50	77	8600
36000	Slickwater w/40/70 White	1.00	80	8660
31000	Slickwater w/40/70 White	1.25	80	8600
15000	Slickwater w/40/70 White	1.50	80	8620
35009	Slickwater Flush	0	80	8690

ISDP 5825#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/28541 gals SW @ 10 BPM & 6330#. Set plug @ 14703'. **Perforated @ 14676' (1', 6 holes), 14658' (1', 6 holes), 14640' (1', 6 holes), 14622' (1', 6 holes), 14604' (1', 6 holes), 14586' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #14 as follows:

Stage #14 @ 14676', 14658', 14640', 14622', 14604', 14586'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	50	8275
20000	Slickwater w/100 Mesh	0.25	64	8635
30000	Slickwater w/100 Mesh	0.50	65	8675
38000	Slickwater w/100 Mesh	1.00	68	8650
40000	Slickwater w/100 Mesh	1.50	72	8575
32000	Slickwater w/100 Mesh	1.75	77	8690
32000	Slickwater w/100 Mesh	2.00	77	8670
12000	Slickwater w/40/70 White	0.25	77	8565
32000	Slickwater w/40/70 White	0.50	73	8200
36000	Slickwater w/40/70 White	1.00	78	8510
31000	Slickwater w/40/70 White	1.25	80	8520
15000	Slickwater w/40/70 White	1.50	80	8490
35897	Slickwater Flush	0	80	8405

ISDP 5790#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/27990 gals SW @ 10 BPM & 5950#. Set plug @ 14550'. **Perforated @ 14528' (1', 6 holes), 14514' (1', 6 holes), 14496' (1', 6 holes), 14478' (1', 6 holes), 14460' (1', 6 holes), 14442' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #15 as follows:

Stage #15 @ 14528', 14514', 14496', 14478', 14460', 14442'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	62	8480
20000	Slickwater w/100 Mesh	0.25	68	8620
30000	Slickwater w/100 Mesh	0.50	73	8610
38000	Slickwater w/100 Mesh	1.00	80	8560
40000	Slickwater w/100 Mesh	1.50	80	8475
32000	Slickwater w/100 Mesh	1.75	80	8440
32000	Slickwater w/100 Mesh	2.00	80	8600

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12000	Slickwater w/40/70 White	0.25	80	8285
32000	Slickwater w/40/70 White	0.50	80	8235
36000	Slickwater w/40/70 White	1.00	80	8240
31000	Slickwater w/40/70 White	0.75	73	8125
15000	Slickwater w/40/70 White	1.00	73	8575
35808	Slickwater Flush	0	80	8600

ISDP 5970#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/28741 gals SW @ 10 BPM & 6650#. Set plug @ 14415'. **Perforated @ 14388' (1', 6 holes), 14370' (1', 6 holes), 14352' (1', 6 holes), 14334' (1', 6 holes), 14316' (1', 6 holes), 14298' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #16 as follows:

Stage #16 @ 14388', 14370', 14352', 14334', 14316', 14298'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	59	8600
20000	Slickwater w/100 Mesh	0.25	67	8600
30000	Slickwater w/100 Mesh	0.50	74	8625
38000	Slickwater w/100 Mesh	1.00	76	8070
40000	Slickwater w/100 Mesh	1.50	77	8650
32000	Slickwater w/100 Mesh	1.75	75	8625
32000	Slickwater w/100 Mesh	2.00	72	8600
12000	Slickwater w/40/70 White	0.25	80	8575
32000	Slickwater w/40/70 White	0.50	80	8480
36000	Slickwater w/40/70 White	1.00	80	8400
31000	Slickwater w/40/70 White	1.25	80	8380
15000	Slickwater w/40/70 White	1.50	78	8500
35720	Slickwater Flush	0	80	8570

ISDP 5855#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/27851 gals SW @ 10 BPM & 6000#. Set plug @ 14271'. **Perforated @ 14244' (1', 6 holes), 14226' (1', 6 holes), 14208' (1', 6 holes), 14190' (1', 6 holes), 14172' (1', 6 holes), 14154' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #17 as follows:

Stage #17 @ 14244', 14226', 14208', 14190', 14172', 14154'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	61	8630
20000	Slickwater w/100 Mesh	0.25	68	8635
30000	Slickwater w/100 Mesh	0.50	69	8625
38000	Slickwater w/100 Mesh	1.00	70	8445
40000	Slickwater w/100 Mesh	1.50	70	8365
32000	Slickwater w/100 Mesh	1.75	70	8340
32000	Slickwater w/100 Mesh	2.00	70	8200
12000	Slickwater w/40/70 White	0.25	70	8480
32000	Slickwater w/40/70 White	0.50	70	8190
36000	Slickwater w/40/70 White	1.00	80	8510
31000	Slickwater w/40/70 White	1.25	80	8600
15000	Slickwater w/40/70 White	1.50	80	8505

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35631 Slickwater Flush 0 76 8650

ISDP 5830#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/26290 gals SW @ 10 BPM & 6500#. Set plug @ 14127'. **Perforated @ 14100' (1', 6 holes), 14082' (1', 6 holes), 14064' (1', 6 holes), 14046' (1', 6 holes), 14028' (1', 6 holes), 14010' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #18 as follows:

Stage #18 @ 14100', 14082', 14064', 14046', 14028', 14010'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	60	8590
20000	Slickwater w/100 Mesh	0.25	70	8570
30000	Slickwater w/100 Mesh	0.50	70	8640
38000	Slickwater w/100 Mesh	1.00	74	8615
40000	Slickwater w/100 Mesh	1.50	74	8410
32000	Slickwater w/100 Mesh	1.75	79	8710
32000	Slickwater w/100 Mesh	2.00	75	8750
12000	Slickwater w/40/70 White	0.25	78	8580
32000	Slickwater w/40/70 White	0.50	80	8610
36000	Slickwater w/40/70 White	1.00	80	8650
31000	Slickwater w/40/70 White	1.25	78	8570
15000	Slickwater w/40/70 White	1.50	78	8640
35542	Slickwater Flush	0	71	8650

ISDP 5895#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/23682 gals SW @ 10 BPM & 7180#. Set plug @ 13983'. **Perforated @ 13956' (1', 6 holes), 13938' (1', 6 holes), 13918' (1', 6 holes), 13902' (1', 6 holes), 13884' (1', 6 holes), 13866' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #19 as follows:

Stage #19 @ 13956', 13938', 13918', 13902', 13884', 13866'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	62	8450
20000	Slickwater w/100 Mesh	0.25	72	8600
30000	Slickwater w/100 Mesh	0.50	77	8590
38000	Slickwater w/100 Mesh	1.00	80	8670
40000	Slickwater w/100 Mesh	1.50	80	8460
32000	Slickwater w/100 Mesh	1.75	80	8360
32000	Slickwater w/100 Mesh	2.00	80	8650
12000	Slickwater w/40/70 White	0.25	80	8300
32000	Slickwater w/40/70 White	0.50	80	8230
36000	Slickwater w/40/70 White	1.00	80	8430
31000	Slickwater w/40/70 White	1.25	80	8450
15000	Slickwater w/40/70 White	1.50	78	8550
35453	Slickwater Flush	0	80	8480

ISDP 5915#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/24816 gals SW @ 10 BPM & 7180#. Set plug @ 13839'. **Perforated @ 13812' (1', 6 holes), 13794' (1', 6 holes), 13776' (1', 6 holes), 13758' (1', 6 holes), 13740'**

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(1', 6 holes), 13722' (1', 6 holes). Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #20 as follows:

Stage #20 @ 13812', 13794', 13776', 13758', 13740', 13722'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	60	8390
20000	Slickwater w/100 Mesh	0.25	72	8450
30000	Slickwater w/100 Mesh	0.50	71	8415
38000	Slickwater w/100 Mesh	1.00	75	8380
40000	Slickwater w/100 Mesh	1.50	78	8440
32000	Slickwater w/100 Mesh	1.75	80	8460
32000	Slickwater w/100 Mesh	2.00	77	8585
12000	Slickwater w/40/70 White	0.25	80	8400
32000	Slickwater w/40/70 White	0.50	80	8390
36000	Slickwater w/40/70 White	1.00	80	8480
31000	Slickwater w/40/70 White	1.25	80	8490
15000	Slickwater w/40/70 White	1.50	73	8550
35364	Slickwater Flush	0	80	8440

ISDP 5866#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/24860 gals SW @ 10 BPM & 6500#. Set plug @ 13695'. **Perforated @ 13668' (1', 6 holes), 13650' (1', 6 holes), 13632' (1', 6 holes), 13614' (1', 6 holes), 13596' (1', 6 holes), 13578' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #21 as follows:

Stage #21 @ 13668', 13650', 13632', 13614', 13596', 13578'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	62	7800
20000	Slickwater w/100 Mesh	0.25	78	8300
30000	Slickwater w/100 Mesh	0.50	75	8200
38000	Slickwater w/100 Mesh	1.00	80	8350
40000	Slickwater w/100 Mesh	1.50	80	8150
32000	Slickwater w/100 Mesh	1.75	80	8050
32000	Slickwater w/100 Mesh	2.00	80	7950
12000	Slickwater w/40/70 White	0.25	80	8150
32000	Slickwater w/40/70 White	0.50	80	8080
36000	Slickwater w/40/70 White	1.00	80	7970
31000	Slickwater w/40/70 White	1.25	80	8050
15000	Slickwater w/40/70 White	1.50	80	8290
34298	Slickwater Flush	0	80	8430

ISDP 5895#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/24722 gals SW @ 9 BPM & 6580#. Set plug @ 13551'. **Perforated @ 13524' (1', 6 holes), 13506' (1', 6 holes), 13488' (1', 6 holes), 13470' (1', 6 holes), 13458' (1', 6 holes), 13434' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #22 as follows:

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

Lease University B20 11 Well No W101DM Location 185' FSL & 440' FWL  
(185 FSL & 290 FWL)  
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Stage #22 @ 13524', 13506', 13488', 13470', 13458', 13434'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	65	8200
20000	Slickwater w/100 Mesh	0.25	72	8450
30000	Slickwater w/100 Mesh	0.50	72	8330
38000	Slickwater w/100 Mesh	1.00	76	8330
40000	Slickwater w/100 Mesh	1.50	80	8230
32000	Slickwater w/100 Mesh	1.75	80	8550
32000	Slickwater w/100 Mesh	2.00	80	8310
12000	Slickwater w/40/70 White	0.25	80	8240
32000	Slickwater w/40/70 White	0.50	80	8330
36000	Slickwater w/40/70 White	1.00	80	8250
31000	Slickwater w/40/70 White	1.25	80	8400
15000	Slickwater w/40/70 White	1.50	80	8360
34209	Slickwater Flush	0	80	8320

ISDP 5910#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/24436 gals SW @ 10 BPM & 6300#. Set plug @ 13402'. **Perforated @ 13380' (1', 6 holes), 13362' (1', 6 holes), 13344' (1', 6 holes), 13324' (1', 6 holes), 13308' (1', 6 holes), 13290' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #23 as follows:

Stage #23 @ 13380', 13362', 13344', 13324', 13308', 13290'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	72	8450
20000	Slickwater w/100 Mesh	0.25	70	8370
30000	Slickwater w/100 Mesh	0.50	80	8515
38000	Slickwater w/100 Mesh	1.00	80	8340
40000	Slickwater w/100 Mesh	1.50	80	8600
32000	Slickwater w/100 Mesh	1.75	78	8550
32000	Slickwater w/100 Mesh	2.00	76	8635
12000	Slickwater w/40/70 White	0.25	80	8525
32000	Slickwater w/40/70 White	0.50	80	8500
36000	Slickwater w/40/70 White	1.00	80	8315
31000	Slickwater w/40/70 White	1.25	80	8300
15000	Slickwater w/40/70 White	1.50	80	8500
34120	Slickwater Flush	0	80	8430

ISDP 5780#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/23573 gals SW @ 10 BPM & 6300#. Set plug @ 13263'. **Perforated @ 13236' (1', 6 holes), 13218' (1', 6 holes), 13200' (1', 6 holes), 13182' (1', 6 holes), 13164' (1', 6 holes), 13146' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #24 as follows:

Stage #24 @ 13236', 13218', 13200', 13182', 13164', 13146'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	70	8450
20000	Slickwater w/100 Mesh	0.25	74	8435

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30000	Slickwater w/100 Mesh	0.50	80	8575
38000	Slickwater w/100 Mesh	1.00	80	8500
40000	Slickwater w/100 Mesh	1.50	80	8450
32000	Slickwater w/100 Mesh	1.75	76	8250
32000	Slickwater w/100 Mesh	2.00	74	8570
12000	Slickwater w/40/70 White	0.25	75	8400
32000	Slickwater w/40/70 White	0.50	76	8200
36000	Slickwater w/40/70 White	1.00	80	8250
31000	Slickwater w/40/70 White	1.25	80	8150
15000	Slickwater w/40/70 White	1.50	75	8365
34031	Slickwater Flush	0	73	8160

ISDP 6060#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/22817 gals SW @ 10 BPM & 6450#. Set plug @ 13124'. **Perforated @ 13092' (1', 6 holes), 13074' (1', 6 holes), 13056' (1', 6 holes), 13038' (1', 6 holes), 13020' (1', 6 holes), 13002' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #25 as follows:

Stage #25 @ 13092', 13074', 13056', 13038', 13020', 13002'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	60	8310
20000	Slickwater w/100 Mesh	0.25	65	8375
30000	Slickwater w/100 Mesh	0.50	69	8410
38000	Slickwater w/100 Mesh	1.00	73	8440
40000	Slickwater w/100 Mesh	1.50	80	8400
32000	Slickwater w/100 Mesh	1.75	80	8290
32000	Slickwater w/100 Mesh	2.00	80	8400
12000	Slickwater w/40/70 White	0.25	78	8600
32000	Slickwater w/40/70 White	0.50	80	8430
36000	Slickwater w/40/70 White	1.00	80	8300
31000	Slickwater w/40/70 White	1.25	80	8250
15000	Slickwater w/40/70 White	1.50	80	8500
33942	Slickwater Flush	0	75	8350

ISDP 5945#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/22182 gals SW @ 10 BPM & 6850#. Set plug @ 12975'. **Perforated @ 12948' (1', 6 holes), 12930' (1', 6 holes), 12912' (1', 6 holes), 12894' (1', 6 holes), 12876' (1', 6 holes), 12858' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #26 as follows:

Stage #26 @ 12948', 12930', 12912', 12894', 12876', 12858'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	62	8510
20000	Slickwater w/100 Mesh	0.25	65	8500
30000	Slickwater w/100 Mesh	0.50	68	8550
38000	Slickwater w/100 Mesh	1.00	73	8500
40000	Slickwater w/100 Mesh	1.50	80	8540
32000	Slickwater w/100 Mesh	1.75	80	8530
32000	Slickwater w/100 Mesh	2.00	76	8420

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12000	Slickwater w/40/70 White	0.25	76	8650
32000	Slickwater w/40/70 White	0.50	80	8435
36000	Slickwater w/40/70 White	1.00	80	8520
31000	Slickwater w/40/70 White	1.25	80	8300
15000	Slickwater w/40/70 White	1.50	80	8450
33853	Slickwater Flush	0	80	8400

ISDP 5850#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/21043 gals SW @ 10 BPM & 6300#. Set plug @ 12831'. **Perforated @ 12804' (1', 6 holes), 12786' (1', 6 holes), 12768' (1', 6 holes), 12750' (1', 6 holes), 12732' (1', 6 holes), 12714' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #27 as follows:

Stage #27 @ 12804', 12786', 12768', 12750', 12732', 12714'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	55	8615
20000	Slickwater w/100 Mesh	0.25	56	8580
30000	Slickwater w/100 Mesh	0.50	61	8570
38000	Slickwater w/100 Mesh	1.00	65	8280
40000	Slickwater w/100 Mesh	1.50	76	8610
32000	Slickwater w/100 Mesh	1.75	80	8570
32000	Slickwater w/100 Mesh	2.00	73	8590
12000	Slickwater w/40/70 White	0.25	80	8575
32000	Slickwater w/40/70 White	0.50	80	8500
36000	Slickwater w/40/70 White	1.00	80	8400
31000	Slickwater w/40/70 White	1.25	80	8430
15000	Slickwater w/40/70 White	1.50	75	8650
33765	Slickwater Flush	0	78	8600

ISDP 6075#. RIH w/4 1/2" 10k ball drop Magnum plug & 6 - 1' HP Scallop guns. Cleaned well & pumped guns down w/21837 gals SW @ 10 BPM & 7290#. Set plug @ 12687'. **Perforated @ 12660' (1', 6 holes), 12642' (1', 6 holes), 12624' (1', 6 holes), 12606' (1', 6 holes), 12588' (1', 6 holes), 12570' (1', 6 holes).** Total 6', 36 holes. Guns loaded @ .39 EHD, 19 GC, 38" pen, 60° phasing. POOH. All guns fired. Dropped 2 1/8" ball. Frac stage #28 as follows:

Stage #28 @ 12660', 12642', 12624', 12606', 12588', 12570'

<u>(Gals)</u>	<u>Stage Fluid</u>	<u>PPG</u>	<u>AIR</u>	<u>SCP</u>
20000	Slickwater	0	46	8570
20000	Slickwater w/100 Mesh	0.25	64	8645
30000	Slickwater w/100 Mesh	0.50	72	8530
38000	Slickwater w/100 Mesh	1.00	80	8560
40000	Slickwater w/100 Mesh	1.50	80	8075
32000	Slickwater w/100 Mesh	1.75	80	7860
32000	Slickwater w/100 Mesh	2.00	80	8010
12000	Slickwater w/40/70 White	0.25	80	7920
32000	Slickwater w/40/70 White	0.50	80	8100
36000	Slickwater w/40/70 White	1.00	80	7845
31000	Slickwater w/40/70 White	1.25	80	7760
15000	Slickwater w/40/70 White	1.50	80	8170



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Halliburton WL. EDCC \$2,206,523. CTCC \$2,932,514. CTDC 2,321,821. CTWC \$5,254,335. AFEC \$6,216,200. (KM/ZA)

JUL 26 2016

SICP 4975# (12 hrs). Begin flowback @ 3:00 P.M. as follows:

<u>Time</u>	<u>Ck</u>	<u>FCP</u>	<u>BPH</u>	<u>Sand</u>
10:00 P.M.	15/64"	4400#	116	None
2:00 A.M.	15/64"	4000#	115	None

This A.M., FCP 3750# on 15/64" making 108 BPH (no oil, no sand, no gas). Recovered 1512 bbl in 14 hrs. (287184 BLWTR, Recovered 1% of load). EDCC \$9,000. CTCC \$2,941,514. CTDC 2,321,821. CTWC \$5,263,335. AFEC \$6,216,200. (JL)

JUL 27 2016

FCP 4100# on 15/64" making 112 BPH (3% oil, light sand, light gas). Recovered 1009 bbls in 12 hrs. MIRU Greatwhite 2" CT unit & Pro Petro FB. Held safety meeting & pressure tested to 6000#. RIH w/3.75" JZ mill tooth bit, motor, agitator, hydraulic disconnect, jars, intensifier, weight bar, dual flapper, slip on coil connector & coil tbg to liner top. Broke circulation with 2.5 BPM & set returns @ 4 BPM @ 4000#. RIH & tagged plug #29 @ 12369'. Drilled plug in 14 mins. RIH & tagged plug #28 @ 12513'. Drilled plug in 22 mins. RIH & tagged plug #27 @ 12664'. Drilled plug in 17 mins. RIH & tagged plug #26 @ 12818'. Drilled plug in 26 mins. RIH & tagged plug #25 @ 12958'. Drilled plug in 8 mins. RIH & tagged plug #24 @ 13161'. Drilled plug in 19 mins. RIH & did not see plug #23. RIH & tagged plug #22 @ 13392'. Drilled plug in 19 mins. RIH & did not see plug #21. Short trip to 11200'. RIH & tagged plug #20 @ 13665'. Drilled plug in 88 mins. RIH & tagged plug #19 @ 13844'. Drilled plug in 32 mins. RIH to plug #18 @ report time. Pumped sweeps after every other plug. Recovered 1260 BW while drlg (284915 BLWTR, Recovered 1% of load). EDCC \$42,298. CTCC \$2,983,812. EDCC \$0. CTDC \$2,321,821. CTWC \$5,305,633. AFEC \$6,216,200. (ARM/KR)

JUL 28 2016

FCP 3800#. RIH & tagged plug #18 @ 13990'. Drilled plug in 60 mins. POOH to check BHA. RIH w/3.75" positive carbide insert mill, motor, agitator, hydraulic disconnect, jars, intensifier, weight bar, dual flapper, slip on coil connector & coil tbg to liner top. RIH & tagged plug #17 @ 14075'. Drilled plug in 20 mins. RIH & tagged plug #16 @ 14217'. Drilled plug in 12 mins. RIH & tagged plug #15 @ 14362'. Drilled plug in 9 mins. RIH & tagged plug #14 @ 14492'. Drilled plug in 19 mins. RIH & tagged plug #13 @ 14656'. Drilled plug in 64 mins. RIH & tagged plug #12 @ 14798'. Drilled plug in 22 mins. RIH & tagged plug #11 @ 14991'. Drilled plug in 31 mins. RIH & tagged plug #10 @ 15091'. Drilled plug in 17 mins. RIH & tagged plug #9 @ 15230'. Drilled plug in 18 mins. RIH & tagged plug #8 @ 15371'. Drilled plug in 17 mins. RIH & tagged plug #7 @ 15526'. Drilled plug in 18 mins. RIH & tagged plug #6 @ 15671'. Drilled plug in 17 mins. RIH & tagged plug #5 @ 15793'. Drilled plug in 11 mins. RIH & tagged plug #4 @ 15952'. Drilled plug in 15 mins. RIH & tagged plug #3 @ 16098'. Drilled plug in 25 mins. RIH & tagged plug #2 @ 16241'. Drilled plug in 30 mins. RIH & tagged plug #1 @ 16391'. Drilled plug in 10 mins. Pumped sweeps after every plug. Recovered 1815 BW while drlg. (283100 BLWTR, Recovered 2% of load). RDMO Greatwhite CT. EDCC \$72,620. CTCC \$3,056,432. CTDC \$2,321,821. CTWC \$5,378,253. AFEC \$6,216,200. (ARM/KR)