

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

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

CountyWinklerSTTXSectionTwShpRng

Section12Blk20Survey

FilenamePage1

API # 42-495-33830

DATE	DAILY REPORTS
Jan 12 2016	Staked location 365' FNL & 330' FWL, Sec 12, Blk 20, Winkler County, Texas. Moved location 180' South from original calls of 185' FNL & 330' FWL due to a power line. (BLS)
MAY 02-15 2017	Building location. (BLS)
MAY 16 2017	Location complete. Ready for cellar and rat holes. TWC - \$40,000.
JUN 11 2017	MI Ready Drill. Installed 8' x 10' cellar & drill ratholes. Set 80' of 20" conductor pipe & cmt to surface w/Redi-mix. Verified location by GPS @ 465' FSL & 330' FWL, Sec 1, Blk 20, UL Survey, Winkler Co., TX. Start MI Patterson/UTI #220 w/Wilbanks Trucking Services from the Zuma 3 57-T1-3X10 #W102AP this A.M. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN/FL)
JUN 12 2017	MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 30% Moved in. 5% Rigged up. Move Day 1. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN)
JUN 13 2017	Continue MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 70% Moved in. 20% Rigged up. Move Day 2. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN)
JUN 14 2017	Continue MIRU Patterson/UTI #220 w/Wilbanks Trucking Services. 80% Moved in. 20% Rigged up. Move Day 3. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN)
JUN 15 2017	MI Sweatt Const & start building location. (JWB) Continue RU Patterson/UTI #220 w/Wilbanks Trucking Services. 100% Moved in. 75% Rigged up. Move Day 4. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. ETWC \$40,000. AFEC \$8,427,300. (RJT/SN/JN)
JUN 16 2017	Continue building location. (JWB) Continue RU Patterson/UTI #220. 100% Moved in. 90% Rigged up. Move Day 5. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. CTWC \$40,000. AFEC \$8,427,300. (GH/LH/SN/JN)
JUN 17 2017	Continue RU Patterson/UTI #220. 100% Moved in. 98% Rigged up. Move Day 6. EDCC \$0. CTCC \$0. EDDC \$0. CTDC \$40,000. CTWC \$40,000. AFEC \$8,427,300. (GH/LH/SN/SH)
JUN 18 2017	347' (267'). Operation: TOO H to run 13 3⁄8" csg. Formation: Surface Rock - Anhy. MW 8.8, Vis 33, pH 10, Cl 200, Ca 160, Solids 2%, DMC \$209, TMC \$209. Bit #1, Size 17 1⁄2", Make Ulterra, Type U616S (PDC), SN 33027, Jets 9-16's, In @ 80', Out @ 347', Made 267' in 5 1⁄4 hrs. PP 700#, RPM 70, WOB 25k, PR 50.9. (Finish RU 10 1⁄2, Mix spud mud & PU BHA 6, Drlg 5 1⁄4, Circ 1⁄2, Trip 1 3⁄4 hrs.) Remarks: Day 1. Finish RU. Mix spud mud & PU BHA. Spudded well w/Patterson/UTI #220 @ 10:30 P.M. MDT 06/17/17 (Notified Diana, operator #4, w/TRRC). Drlg from 80' to 347'. Circ sweep. TOO H. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$392,563. CTDC \$432,563. CTWC \$432,563. AFEC \$8,427,300. (GH/LH/SN/SH)
JUN 19 2017	347' (0'). Operation: Testing BOPE. Formation: Anhy. MW 10.0, Vis 29, pH 10, Cl 170K, Ca

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ST

TX

Section

TwNShp

Rng

Section

12

Blk

20

Survey

Filename

Page

2

API # 42-495-33830

DATE	DAILY REPORTS
JUN 19 – CONT	800, Solids <1%, DMC \$1,032, TMC \$1,241. Bit #1, Size 17 ½", Make Ulterra, Type U616S (PDC), SN 33027, Jets 9-16's, In @ 80', Out @ 347', Made 267' in 5 ¼ hrs. (Trip 1, Cut off conductor 2 ½, Run csg 3, Circ 1, Cmt 1 ½, WOC 8, NU BOPE 5, Test BOPE 2 hrs.) Remarks: Day 2. Finish LD BHA. Cut off conductor. Held safety meeting. RU Bull Rogers & run 13 ⅜" csg. Circ csg capacity. RU BJ Services & cmt. WOC. Held safety meeting. NU BOPE w/Man Welding. Testing BOPE w/Man Welding No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$112,201. CTDC \$544,764. CTWC \$544,764. AFEC \$8,427,300. (GH/LH/PN/SH)
	1 Weatherford TPGS 0.66'
	1 13 ⅜" 54.5# J55 ST&C Csg 42.15'
	1 Weatherford Float Collar 1.39'
	6 13 ⅜" 54.5# J55 ST&C Csg 252.68'
	1 13 ⅜" 54.5# J55 ST&C Pup Jt 10.08'
	1 13 ⅜" Landing tool 33.50'
	Total 340.46'
	Less above KB 3.46'
	Csg set @ 337.00'
	(Note: Received 10 jts of 13 ⅜" 54.5# J55 ST&C csg (421.21' T-off) from WB Supply - Manufactured by Shin Yang. Returned 3 jts of 13 ⅜" 54.5# J55 ST&C csg (126.38' T-off) to WB Supply for credit.)
	Held safety meeting. Pumped 20 bbls FW spacer. BJ Services w/370 sks Class C w/1% CaCl ₂ (yd 1.34 cuft/sk @ 14.8 PPG). Displace w/FW. Plug down @ 3:00 P.M. MDT 06/18/17. Circ 188 sks of cmt to the pit. (Notified Diana operator #4 but did not witness.)
JUN 20 2017	1109' (762'). Operation: Drlg w/motor & MWD. Formation: Anhy - Salt. MW 10.0, Vis 28, pH 10, Cl 176k, Ca 1600, Solids <1%, DMC \$105, TMC \$1,346. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Made 762' in 8 hrs. PP 2850#, RPM 55/105, WOB 40k, PR 95.3. (Drlg 8, Test BOPE 3, Install wear bushing 1, Replace swivel packing 2, RR 1 ½, PU dir tools & test 3, RS 1, Trip 2 ¾, Test csg ½, Drlg plug, float & cmt 1, FIT test ¼ hrs.) Remarks: Day 3. Finish Testing BOPE to 5000# high/250# low & Annular to 3500# high/250# low. Tested standpipe & mud lines to the pumps to 5000#. Install wear bushing. Replace swivel packing. PU dir tools. RS. TIH. At 7:15 P.M. MDT 06/19/17, tested csg to 1500# for 30 min, held OK. Drlg plug, float & cmt. Drlg from 347' to 357'. FIT test to 10.5 PPG EMW. Drlg from 357' to 1109' w/surveys. BHA: Bit, Stryker 0.17 rpg 2.12° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 983.70'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$57,218. CTDC \$601,982. CTWC \$601,982. AFEC \$8,427,300. (GH/LH/PN/JN)
JUN 21 2017	3642' (2533'). Operation: Drlg w/motor & MWD. Formation: Anhy - Salt. Dev @ 1376' - 0.4°, @ 1820' - 0.8°, @ 2170' - 1.7°, @ 2644' - 0.8°, @ 3118' - 1.1°. MW 10.0, Vis 29, pH 10, Cl 165k, Ca 2400, Solids <1%, DMC \$1,457, TMC \$2,803. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Made 3295' in 23 ¼ hrs. PP 3700#, RPM 55/105, WOB 40k, PR 166.1. (Drlg 15 ¼, RS ½, BOPE & H ₂ S drill ½, Surv 7 ½, Install rot head rubber ¼ hrs.) Remarks: Day 4. Drlg from 1109' to 3642' w/surveys, RS, BOPE & H ₂ S drills. BHA: Bit, Stryker 0.17 rpg 2.12° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, XO. Total BHA: 983.70'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$48,953. CTDC \$650,935. CTWC \$650,935. AFEC \$8,427,300. (GH/LH/PN/JN)

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Section12Blk20Survey

FilenamePage3

API # 42-495-33830

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JUN 22 2017	<p>5031' (1389'). Operation: Drlg w/motor & MWD. Formation: Salt - Lime. Dev @ 3592' - 1.1°, @ 4066' - 0.3°, @ 4539' - 0.6°, @ 4823' - 1.7°. MW 10.2, Vis 29, pH 10, Cl 186k, Ca 440, Solids 1.3%, DMC \$1,489, TMC \$4,292. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Made 4684' in 42 ¾ hrs. PP 3700#, RPM 55/95, WOB 40k, PR 71.2. (Drlg 19 ½, Surv 4, RS ½ hrs.) Remarks: Day 5. Drlg from 3642' to 5031' w/surveys & RS. BHA: Bit, Stryker 0.17 rpg 2.12° adj mtr, UBHO, Slick NMDC, Reamer, 3-8" DC's, XO, 27-6" DC's, 2-XO's. Total BHA: 985.90'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$50,044. CTDC \$700,979. CTWC \$700,979. AFEC \$8,427,300. (GH/LH/PN/JN)</p> <p>5124' (93'). Operation: WOC - RD BJ Services. Formation: Lime - Dolo. Dev @ @ 5074' - 1.8°. MW 10.5, Vis 29, pH 9, Cl 185k, Ca 360, Solids 2.6%, DMC \$3,476, TMC \$7,768. Bit #2, Size 12 ¼", Make Ulterra, Type U616S (PDC), SN 35991, Jets 6-16's, In @ 347', Out @ 5124', Made 4777' in 44 ¾ hrs. PP 3700#, RPM 55/95, WOB 40k, PR 46.5. (Drlg 2, Circ 3, Trip 5, LD DC's & dir tools 1 ¼, Pull wear bushing ¾, Run csg 7 ¾, Cmt 2 ½, WOC 1 ¼, RS ½ hrs.) Remarks: Day 6. Drlg from 5031' to 5124'. Circ sweep. TOOH. LD 8" DC's & dir tools. RS. Pull wear bushing. Held safety meeting. RU & run 9 ⅝" csg w/Bull Rogers. Set Cameron mandrel hanger through BOP w/150k#. Circ. Held safety meeting. RU BJ Services & cmt. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$53,636. CTDC \$754,615. CTWC \$754,615. AFEC \$8,427,300. (RJT/KJ/JN)</p> <table><tr><td>1</td><td>Weatherford Float Shoe</td><td>1.64'</td></tr><tr><td>1</td><td>9 ⅝" 40# N80 LT&C Csg</td><td>41.36'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.55'</td></tr><tr><td>121</td><td>9 ⅝" 40# N80 LT&C Csg</td><td>5033.47'</td></tr><tr><td>1</td><td>9 ⅝" 40# N80 LT&C Csg Pup Jt</td><td>5.00'</td></tr><tr><td>1</td><td>9 ⅝" Landing Tool</td><td>34.98'</td></tr><tr><td></td><td>Total</td><td>5118.00'</td></tr><tr><td></td><td>Less above KB</td><td>4.00'</td></tr><tr><td></td><td>Csg set @</td><td>5114.00'</td></tr></table> <p>(Note: Received 126 jts of 9 ⅝" 40# N80 LT&C csg (5241.24' T-off) from WB Supply - Manufactured by Nexsteel. Returned 4 jts of 9 ⅝" 40# N80 LT&C csg (166.41' T-off) to WB Supply for credit.)</p> <p>Held safety meeting. Pumped 20 bbls FW spacer. BJ Services cmt w/1150 sks Lite Class C (35:65:4) w/2% SMS, ⅓#/sk LCM, 5% Salt, 3#/sk KolSeal & 0.6% Retarder (yd @ 1.90 cuft/sk @ 12.8 PPG). Tail w/200 sks Class C w/0.1% Retarder & 0.25% Defoamer (yd @ 1.33 cuft/sk @ 14.8 PPG). Plug down @ 4:45 A.M. 06/23/17. Circ 277 sks of cmt to the pit. (Notified Dee, operator #5, with TRRC but did not witness.)</p>	1	Weatherford Float Shoe	1.64'	1	9 ⅝" 40# N80 LT&C Csg	41.36'	1	Weatherford Float Collar	1.55'	121	9 ⅝" 40# N80 LT&C Csg	5033.47'	1	9 ⅝" 40# N80 LT&C Csg Pup Jt	5.00'	1	9 ⅝" Landing Tool	34.98'		Total	5118.00'		Less above KB	4.00'		Csg set @	5114.00'
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	Less above KB	4.00'																										
	Csg set @	5114.00'																										
JUN 22 – CONT																												
JUN 23 2017																												
JUN 24 2017	<p>5622' (498'). Operation: Drlg w/motor. Formation: Lime - Dolo. Dev @ 5205' - 1.2°. MW 8.5, Vis 29, pH 10, Cl 12k, Ca 360, Solids 1.0%, DMC \$2,819, TMC \$10,587. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Made 498' in 4 hrs. PP 2600#, RPM 65/94, WOB 35k, PR 124.5. (Drlg 4, Trip 6 ½, WOC 1 ¾, RS ½, RR 8 ¼, Safety stand down ½, Drlg plug, float & cmt 1 ¾, Test csg ½, FIT test ¼ hrs.) Remarks: Day 7. Set csg spool pack-off & test to 5000#. PU BHA. Replace IBOP & repair BOPE remote. TIH. Safety stand down. At 11:00 P.M. 06/23/17, tested csg to 1500# for 30 mins, held OK. Drlg plug, float & cmt. Drlg from 5124' to 5134'. FIT test to EMW of 9.6 PPG. Drlg from 5134' to 5622' w/surveys & RS. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$249,783. CTDC \$1,004,398. CTWC \$1,004,398. AFEC \$8,427,300. (RJT/KJ/JN)</p>																											

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Section

TwNShp

Rng

Section

12

Blk

20

Survey

Filename

Page

4

API # 42-495-33830

DATE	DAILY REPORTS
JUN 25 2017	7895' (2273'). Operation: Drlg w/motor. Formation: Lime - Dolo. Dev @ 5485' - 1.4°, @ 6045' - 0.6°, @ 6529' - 0.3°, @ 7003' - 0.2°, @ 7476' - 0.6°. MW 8.6, Vis 29, pH 10, Cl 12k, Ca 360, Solids 1.5%, DMC \$2,410, TMC \$12,997. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Made 2771' in 27 hrs. PP 2900#, RPM 65/94, WOB 40k, PR 98.8. (Drlg 23, RS ½, Surv ½ hrs.) Remarks: Day 8. Drlg from 5622 to 7895' w/surveys & RS. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$42,812. CTDC \$1,047,210. CTWC \$1,047,210. AFEC \$8,427,300. (RJT/KJ/LJ)
JUN 25 – CONT	
JUN 26 2017	9029' (1134'). Operation: Drlg w/motor & MWD. Formation: Lime - Sand. Dev @ 7990' - 0.7°, @ 8473' - 0.8°, @ 8803' - 0.8°. MW 9.4, Vis 29, pH 10, Cl 150k, Ca 1200, Solids <1%, DMC \$136, TMC \$13,133. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Made 3905' in 49 ¾ hrs. PP 2900#, RPM 65/147, WOB 40k, PR 49.8. (Drlg 22 ¾, Surv ¾, RS ½ hrs.) Remarks: Day 9. Drlg from 7895' to 9029' w/surveys & RS. BHA: Bit, Phoenix 0.25 rpg mtr, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 881.55'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$37,588. CTDC \$1,084,798. CTWC \$1,084,798. AFEC \$8,427,300. (RJT/KJ/LJ)
JUN 27 2017	9416' (387'). Operation: TIH w/bit #4. Formation: 50% Lime - 50% Chert. Dev @ 9084' - 0.5°, @ 9368' - 1.6°. MW 9.3, Vis 29, pH 10, Cl 150k, Ca 1440, Solids <1%, DMC \$105, TMC \$13,238. Bit #3, Size 8 ¾", Make STC, Type Z619 (PDC), SN JM6827, Jets 6-16's, In @ 5124', Out @ 9416', Made 4292' in 58 ¼ hrs. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Made 0' in 0 hrs. PP 3500#, RPM 65/147, WOB 40k, PR 45.5. (Drlg 8 ½, Surv 1 ¼, Trip 11 ¼, RS ½, RR 2 ½ hrs.) Remarks: Day 10. Drlg from 9029' to 9416' w/surveys. TOOH. Repair electrical system. Continue TOOH. LD motor & PU tricone bit. Replace hose on catwalk. RS. TIH. BHA: Bit, Bit Sub, DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 883.56'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$47,522. CTDC \$1,132,320. CTWC \$1,132,320. AFEC \$8,427,300. (RJT/KJ/SN/JN)
JUN 28 2017	9805' (389'). Operation: Drlg. Formation: 60% Chert - 40% Lime. Dev @ 9463' - 1.6°, @ 9654' - 1.1°. MW 9.3, Vis 29, pH 10, Cl 150k, Ca 1200, Solids <1%, DMC \$447, TMC \$13,685. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Made 389' in 21 ½ hrs. PP 3300#, RPM 65, WOB 50k, PR 18.1. (Drlg 21 ½, Surv ¾, Trip 1, RS ½, BOPE & H2S drill ¼ hrs.) Remarks: Day 11. TIH. Drlg from 9029' to 9805' w/surveys, RS, BOPE & H2S drill. BHA: Bit, Bit Sub, DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 883.56'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$32,516. CTDC \$1,164,836. CTWC \$1,164,836. AFEC \$8,427,300. (RJT/KJ/SN/JN)
JUN 29 2017	10073' (268'). Operation: PU dir tools & test. Formation: 60% Sand - 30% Lime - 10% Shale. Dev @ 9822' - 1.6°, @ 9934' - 2.7°. MW 9.4, Vis 28, pH 10, Cl 150k, Ca 1200, Solids 2.8%, DMC \$105, TMC \$13,790. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Out @ 10073', Made 657' in 36 ¾ hrs. PP 3300#, RPM 65, WOB 50k, PR 17.6. (Drlg 15 ¼, Surv ½, Circ ¼, Trip 6 ¾, RS ½, BOPE & H2S drill ¼, PU dir tools ½ hrs.) Remarks: Day 12. Drlg from 9805' to 10073' w/surveys, RS, BOPE & H2S drill. Circ. TOOH. PU dir tools & test. BHA: Bit, Bit Sub, DC, Teledrift, Reamer, 1-6" DC, IBS, 26-6" DC's, 2-XO's. Total BHA: 883.56'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$52,193. CTDC \$1,217,029. CTWC \$1,217,029. AFEC \$8,427,300. (RJT/KJ/SN/JN)
JUN 30 2017	10680' (607'). Operation: Drlg w/motor & MWD. Formation: 60% Sand - 30% Lime - 10% Shale. Dev @ 10120' - 2.6°, @ 10499' - 1.1°. MW 9.4, Vis 29, pH 10, Cl 90k, Ca 1000, Solids 1.5%, DMC \$5,558, TMC \$19,348. Bit #4, Size 8 ¾", Make STC, Type FH47Y, SN RJ2875, Jets 3-18's, In @ 9416', Out @ 10073', Made 657' in 36 ¾ hrs. Bit #5, Size 8 ¾", Make STC,

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12

Blk

20

Survey

Filename

Page

5

API # 42-495-33830

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

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TwNShp

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12

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20

Survey

Filename

Page

6

API # 42-495-33830

DATE	DAILY REPORTS															
JUL 04 2017	<p>12310' MD (464'). Operation: LD BHA. Formation: 100% Shale. MW 9.5, Vis 40, WL 9, pH 8, PV 6, YP 4, Gels 3/7, FC 1/32", Cl 110k, Ca 120, Solids 1.0%, DMC \$0, TMC \$19,705. Bit #7, Size 8 ¾", Make HTC, Type KM624 (bicone/PDC), SN 5266797, Jets 4-18's, In @ 11525', Made 785' in 19 hrs. PP 3600#, RPM 30/140, WOB 40k, PR 56.2. (Drlg 8 ¼ (Rot 2 ¼ & Slide 6), Surv 4, Trip 5 ¾, RS ½, Circ 2, LD BHA 3 ½ hrs.) Remarks: Day 17. Drlg from 11846' to 12310' MD w/surveys & RS. Circ. TOOH & LD BHA. BHA: Bit, Stryker 0.28 rpg 2.25° fixed mtr w/KP, UBHO, NMDC Slick, NMDC Flex, 33-5" DP, XO, 21-6" DC's, Jars, 6-6" DC's, XO's. Total BHA: 1988.03'. No fluid lost or gained. BG 750 units. CG 920 units. TG 1530 units. EDCC \$0. CTCC \$0. EDDC \$52,220. CTDC \$1,502,680. CTWC \$1,502,680. AFEC \$8,427,300. (PN/JRH/JN)</p> <p>11791' MD (11778.8' TVD) 27.2° Inc @ 161.8° Azm 11823' MD (11806.8' TVD) 30.9° Inc @ 160.5° Azm 11855' MD (11833.9' TVD) 33.2° Inc @ 160.5° Azm 11886' MD (11859.6' TVD) 34.7° Inc @ 161.2° Azm 11918' MD (11885.7' TVD) 36.2° Inc @ 161.6° Azm 11949' MD (11910.4' TVD) 38.0° Inc @ 162.1° Azm 11981' MD (11935.3' TVD) 40.0° Inc @ 163.1° Azm 12013' MD (11959.3' TVD) 42.6° Inc @ 163.7° Azm 12044' MD (11981.5' TVD) 46.0° Inc @ 164.3° Azm 12076' MD (12003.1' TVD) 49.2° Inc @ 163.9° Azm 12107' MD (12022.8' TVD) 51.7° Inc @ 162.7° Azm 12138' MD (12041.2' TVD) 55.3° Inc @ 161.7° Azm 12170' MD (12058.9' TVD) 57.7° Inc @ 161.9° Azm 12202' MD (12075.2' TVD) 61.0° Inc @ 163.2° Azm 12233' MD (12089.6' TVD) 63.6° Inc @ 164.2° Azm 12265' MD (12103.0' TVD) 66.8° Inc @ 165.4° Azm Projection to bit 12310' MD (12119.5' TVD) 72.2° Inc @ 163.0° Azm</p>															
JUL 05 2017	<p>12310' MD (0'). Operation: Running 7" csg. Formation: Shale. MW 9.5, Vis 40, WL 9, pH 8, PV 6, YP 5, Gels 3/7, FC 1/32", Cl 110k, Ca 160, Solids 1.0%, DMC \$2,879, TMC \$22,584. Bit #7, Size 8 ¾", Make HTC, Type KM624 (bicone/PDC), SN 5266797, Jets 4-18's, In @ 11525', Out @ 12310', Made 785' in 19 hrs. PP 100#. (LD BHA 2 ½, Pull wear bushing ½, Run csg 18 ¼, Circ 2 ¾ hrs.) Remarks: Day 18. Finish LD BHA. Held safety meeting. RU Bull Rogers & run 7" csg w/torque turn. Circ gas out @ 9900' MD. Continue running 7" csg. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$44,129. CTDC \$1,546,809. CTWC \$1,546,809. AFEC \$8,427,300. (PN/JRH/JN)</p>															
JUL 06 2017	<p>12241' MD (0'). Operation: Testing BOPE. Formation: Shale. DMC \$2,879, TMC \$25,463. (Run csg 2, Circ 2 ¾, Cmt 5 ¾, WOC 8, Test BOPE 5 ½ hrs.) Remarks: Day 19. Finish running 7" csg. Set Cameron mandrel hanger through BOP w/285k#. Circ csg capacity. RU BJ Services & cmt. WOC. Installed pack-off & tested to 5000#. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$478,819. CTDC \$2,025,628. CTWC \$2,025,628. AFEC \$8,427,300. (PN/JRH/JN)</p> <table><tr><td>1</td><td>Weatherford Float Shoe</td><td>1.58'</td></tr><tr><td>1</td><td>7" 29# P110 LT&C Csg</td><td>39.13'</td></tr><tr><td>1</td><td>Weatherford Float Collar</td><td>1.25'</td></tr><tr><td>136</td><td>7" 29# P110 LT&C Csg</td><td>5253.29'</td></tr><tr><td>16</td><td>7" 29# P110 LT&C Bond Coated Csg</td><td>614.02'</td></tr></table>	1	Weatherford Float Shoe	1.58'	1	7" 29# P110 LT&C Csg	39.13'	1	Weatherford Float Collar	1.25'	136	7" 29# P110 LT&C Csg	5253.29'	16	7" 29# P110 LT&C Bond Coated Csg	614.02'
1	Weatherford Float Shoe	1.58'														
1	7" 29# P110 LT&C Csg	39.13'														
1	Weatherford Float Collar	1.25'														
136	7" 29# P110 LT&C Csg	5253.29'														
16	7" 29# P110 LT&C Bond Coated Csg	614.02'														

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Section12Blk20Survey

FilenamePage7

API # 42-495-33830

DATE

DAILY REPORTS

JUL 06 – CONT

1	Weatherford ECP set @ 6383'	26.60'
1	7" 29# P110 LT&C Bond Coated Csg	39.04'
1	Weatherford DV Tool @ 6320'	2.25'
35	7" 29# P110 LT&C Bond Coated Csg	1352.07'
128	7" 29# P110 LT&C Csg	4932.14'
1	7" 29# HCP110LT&C pup jt csg	5.51'
1	7" Landing tool	34.82'
	Total	12301.70'
	Less above KB	4.70'
	Csg set @	12297.00'

(Note: Received 269 jts of 7" 29# HCP110 LT&C csg (10381.93' T-off) & 52 jts of 7" 29# HCP110 LT&C Bondcoat csg (2005.13' T-off) from WB Supply - Manufactured by TMK IPSCO. Returned 4 jts of 7" 29# HCP110 LT&C csg (157.37' T-off) to Smith Bros for credit.)

Held safety meeting. Pumped 30 bbls FW spacer. BJ cmt 1st stage w/350 sks Lite Class C (60:40:0) w/3#/sk Kol Seal, 10#/sk Silica Fume, 0.65% Retarder, 1/8#/sk Flo Seal, 1% SMS, 0.65% Suspension Agent, 0.4% Fluid Loss & 0.2% Defoamer (yd @ 2.52 cuft/sk @ 11.5 PPG). Tail w/400 sks Lite Class H (50:50:0) w/0.2% Retarder, 0.4% Fluid Loss, 0.5% SMS & 0.2% Defoamer (yd @ 1.24 cuft/sk @ 14.2 PPG). Displaced w/455 bbls FW. Plug down @ 1:15 P.M. MDT 07/05/17. Pressured up to 3500# to set ECP. **Tested csg to 7000# for 5 min, held OK.** Dropped bomb & opened DV tool w/717#. Circ 50 sks cmt off of DV tool. Cmt 2nd stage w/100 sks Lite Class C (60:40:0) w/10#/sk Silica Fume, 1/8#/sk LCM, 1% SMS, 0.2% Dispersant, 0.4% Fluid Loss & 0.2% Defoamer (yd @ 2.48 cuft/sk @ 11.5 PPG). Tail w/100 sks Lite Class H (50:50:0) w/0.2% Retarder, 0.4% Fluid Loss, 0.5% SMS & 0.2% Defoamer (yd @ 1.24 cuft/sk @ 14.2 PPG). Displaced w/235 bbls FW. Plug down @ 4:30 P.M. MDT 07/05/17. Did not circ cmt. Slow rate lift pressure 210# @ 3 ½ BPM. Closed DV tool & tested w/5000#. (Notified Audrey, operator #2, w/TRRC but did not witness.)

JUL 07 2017

12310' MD (0'). Operation: TIH w/curve assembly. Formation: Shale. MW 9.7, Vis 29, pH 9, Cl 170k, Ca 1200, Solids <1%, DMC \$0, TMC \$25,463. Bit #8, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 31923, Jets 5-18's, In @ 12310', Made 0' in 0 hrs. PP 1000#. (Test BOPE 14 3/4, PU dir tools & test 1 3/4, Trip 5 3/4, RR 1, Drlg DV tool 3/4 hrs.) **Remarks:** Day 20. Continue testing BOPE to 5000# high/250# low & Annular to 3500# high/250# low. Tested standpipe & mud lines to the pumps to 5000#. Replaced pipe rams & test to 5000# high/250# low. PU dir tools & test. TIH. Drlg DV tool @ 6320'. Repair iron roughneck. Continue TIH. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 20-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$130,779. CTDC \$2,156,407. CTWC \$2,156,407. AFEC \$8,427,300. (SN/JN)

JUL 08 2017

12550' MD (240'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.6, Vis 105, HTHP 7, PV 24, YP 16, Gels 7/4, FC 2/32", Cl 47k, Adj solids 2%, Oil 78%, ES 405, DMC \$0, TMC \$25,463. Bit #8, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 31923, Jets 5-18's, In @ 12310', Made 240' in 7 1/4 hrs. PP 1000#, RPM 0/138, WOB 20k, PR 33.1. (Drlg 7 1/4 (Rot 0 & Slide 7 1/4), Surv 1 1/2, RS 1, Trip 3 1/2, RR 2 3/4, Cut drlg line 2 1/2, Drlg plug, float & cmt 3, Test csg 1/2, FIT test 1/2, Displace w/OBM 1 1/2 hrs.) **Remarks:** Day 21. Continue TIH. Repair brakes. RS. Cut drlg line. **At 4:30 P.M. MDT 07/07/17, tested casing to 5000# for 30 min, held OK.** Drlg plug, float & cmt. Displace w/OBM. **FIT test to 14.5# EMW.** Drlg from 12310' to 12550' MD. **Last survey @ 12485' MD (12155.6' TVD) 84.8° Inc @ 161.6° Azm. Total lateral open hole @ 253' of 6390'.** BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or

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Section

12

Blk

20

Survey

Filename

Page

8

API # 42-495-33830

DATE	DAILY REPORTS
JUL 09 2017	<p>gained. EDCC \$0. CTCC \$0. EDDC \$55,388. CTDC \$2,211,795. CTWC \$2,211,795. AFEC \$8,427,300. (SN/JN)</p> <p>13447' MD (897'). Operation: TIH. Formation: 100% Shale. MW 13.8, Vis 67, HTHP 6, PV 25, YP 10, Gels 10/16, FC 1/32", Cl 35k, Adj solids 3.7%, Oil 70%, ES 469, DMC \$0, TMC \$25,463. Bit #8, Size 6 1/8", Make Ulterra, Type U513M (PDC), SN 31923, Jets 5-18's, In @ 12310', Out @ 13447', Made 1137' in 18 3/4 hrs. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 0' in 0 hrs. PP 4500#, RPM 55/138, WOB 35k, PR 78.0. (Drlg 11 1/2 (Rot 9 & Slide 2 1/2), Surv 2 1/2, RS 1/2, Trip 8, PU dir tools & test 1 1/4, BOPE & H2S drill 1/4 hrs.) Remarks: Day 22. Drlg from 12550' to 13447' MD w/surveys, RS, BOPE & H2S drill. TOOH. Replace dir tools & test. TIH w/bit #9. Last survey @ 13337' MD (12141.6' TVD) 89.5° Inc @ 162.6° Azm. <u>Total lateral open hole @ 1150' of 6390'.</u> BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. BG 225 units. CG 400 units. EDCC \$0. CTCC \$0. EDDC \$77,121. CTDC \$2,288,916. CTWC \$2,288,916. AFEC \$8,427,300. (SN/JN)</p>
JUL 10 2017	<p>14750' MD (1303'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.8, Vis 67, HTHP 6, PV 25, YP 10, Gels 10/16, FC 1/32", Cl 35k, Adj solids 3.7%, Oil 70%, ES 469, DMC \$0, TMC \$25,463. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 1303' in 14 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 93.1. (Drlg 14 (Rot 11 3/4 & Slide 2 1/4), Surv 3 1/4, RS 1/2, Trip 6, BOPE & H2S drill 1/4 hrs.) Remarks: Day 23. Continue TIH. Drlg from 13447' to 14750' MD w/surveys, RS, BOPE & H2S drill. Last survey @ 14566' MD (12128.7' TVD) 92.4° Inc @ 163.0° Azm. <u>Total lateral open hole @ 2453' of 6390'.</u> BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.47'. No fluid lost or gained. BG 200 units. CG 300 units. TG 1550 Units. EDCC \$0. CTCC \$0. EDDC \$41,618. CTDC \$2,330,534. CTWC \$2,330,534. AFEC \$8,427,300. (SN/JN)</p>
JUL 11 2017	<p>16300' MD (1550'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.8, Vis 67, HTHP 6, PV 30, YP 15, Gels 11/23, FC 2/32", Cl 34k, Adj solids 3.7%, Oil 69%, ES 555, DMC \$7,262, TMC \$32,725. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 2853' in 33 1/4 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 80.5. (Drlg 19 1/4 (Rot 9 3/4 & Slide 9 1/2), Surv 4 1/4, RS 1/2 hrs.) Remarks: Day 24. Drlg from 14750' to 16300' MD w/surveys & RS. Last survey @ 16173' MD (12126.5' TVD) 91.6° Inc @ 166.1° Azm. <u>Total lateral open hole @ 4003' of 6390'.</u> BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.43'. No fluid lost or gained. BG 175 units. CG 275 units. EDCC \$0. CTCC \$0. EDDC \$67,325. CTDC \$2,397,859. CTWC \$2,397,859. AFEC \$8,427,300. (SN/JN)</p>
JUL 12 2017	<p>17775' MD (1475'). Operation: Drlg w/motor & MWD. Formation: 100% Shale. MW 13.8, Vis 68, HTHP 6, PV 29, YP 16, Gels 11/23, FC 2/32", Cl 77k, Adj solids 3.7%, Oil 68%, ES 589, DMC \$7,715, TMC \$40,440. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 4328' in 52 3/4 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 75.6. (Drlg 19 1/2 (Rot 12 & Slide 7 1/2), Surv 4, RS 1/2 hrs.) Remarks: Day 25. Drlg from 16300' to 17775' MD w/surveys & RS. Last survey @ 17686' MD (12117.3' TVD) 89.5° Inc @ 168.6° Azm. <u>Total lateral open hole @ 5478' of 6390'.</u> BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.43'. No fluid lost or gained. BG 175 units. CG 225 units. EDCC \$0. CTCC \$0. EDDC \$72,939. CTDC \$2,470,798. CTWC \$2,470,798. AFEC \$8,427,300. (SN/JN)</p>

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Section

12

Blk

20

Survey

Filename

Page

9

API # 42-495-33830

DATE	DAILY REPORTS
JUL 13 2017	18690' MD (915'). Operation: TOO H to PU reamer. Formation: 100% Shale. MW 13.6, Vis 60, HTHP 6, PV 35, YP 14, Gels 10/20, FC 2/32", Cl 55k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$10,205, TMC \$50,645. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Made 5243' in 62 3/4 hrs. PP 5300#, RPM 55/138, WOB 35k, PR 91.5. (Drlg 10 (Rot 5 3/4 & Slide 4 1/4), Surv 2 3/4, RS 1/2, Circ 2, Trip 8 3/4 hrs.) Remarks: Day 26. Drlg from 17775' to 18690' MD w/surveys & RS. TD well @ 7:15 P.M. MDT 07/12/17. Circ sweep. TOO H & work tight hole from 18690' to 13700' MD. Last survey @ 18639' MD (12120.0' TVD) 91.0° Inc @ 161.3° Azm. Projected to the bit @ 18690' MD (12119.1' TVD) 91.0° Inc @ 161.3° Azm. Total lateral open hole @ 6393'. BHA: Bit, Baker 0.49 rpg 2.1° adj mtr, UBHO, Slick NMDC, Flex NMDC, XO, 60-4" DP, XO, Agitator, XO. Total BHA: 2027.43'. No fluid lost or gained. BG 275 units. CG 325 units. EDCC \$0. CTCC \$0. EDDC \$60,817. CTDC \$2,531,615. CTWC \$2,531,615. AFEC \$8,427,300. (SN/JN)
JUL 14 2017	18690' MD (0'). Operation: Short trip. Formation: Shale. MW 14.0, Vis 65, HTHP 2, PV 31, YP 17, Gels 10/22, FC 2/32", Cl 38k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$10,205, TMC \$60,850. Bit #9, Size 6 1/8", Make HTC, Type TD405FX (PDC), SN 5271316, Jets 5-16's, In @ 13447', Out @ 18690', Made 5243' in 62 3/4 hrs. Bit #10, Size 6 1/8", Make HTC, Type STX35, SN 5251084, Jets 3-20's, In @ 18690'. PP 4500#, RPM 55, WOB 10k. (Trip 15 1/2, RS 1/2, Circ 2 1/2, LD dir tools 1, Wash/ream 4 1/2 hrs.) Remarks: Day 27. TOO H. LD dir tools. RS. PU bit & reamer. TIH. Wash/ream from 15755' to 16132' MD, from 17456' to 17551' MD & from 17999' to 18690' MD. Circ sweep & raise MW to 14.0 PPG. Short trip. BHA: Bit, Bit sub, 1-4" DP, Reamer. Total BHA: 40.65'. No fluid lost or gained. EDCC \$0. CTCC \$0. EDDC \$59,197. CTDC \$2,590,812. CTWC \$2,590,812. AFEC \$8,427,300. (PN/JRH/LJ)
JUL 15 2017	18690' MD (0'). Operation: Running 4 1/2" liner. Formation: Shale. MW 14.0, Vis 65, HTHP 2, PV 31, YP 17, Gels 10/22, FC 2/32", Cl 38k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$8,118, TMC \$68,968. Bit #10, Size 6 1/8", Make HTC, Type STX35, SN 5251084, Jets 3-20's, In @ 18690', Out @ 18690'. PP 4500#, RPM 55, WOB 10k. (Trip 12, RS 1/2, Circ 2 1/2, Cut drlg line 2, Run liner 7 hrs.) Remarks: Day 28. Short trip to 12297' MD w/no drag. TIH to 18690' MD w/no drag or fill. Circ sweep. TOO H. Held safety meeting. RU Bull Rogers & run 4 1/2" liner w/torque turn. BHA: Bit, Bit sub, 1-4" DP, Reamer. Total BHA: 40.65'. No fluid lost or gained. EDCC \$5,781. CTCC \$5,781. EDDC \$37,519. CTDC \$2,628,331. CTWC \$2,634,112. AFEC \$8,427,300. (PN/JRH/LJ)
JUL 16 2017	18690' MD (0'). Operation: LD 4" DP. Formation: Shale. MW 14.0, Vis 65, HTHP 2, PV 31, YP 17, Gels 10/22, FC 2/32", Cl 38k, Adj solids 3.7%, Oil 69%, ES 589, DMC \$105, TMC \$69,073. (Run liner 9 1/4, SD for weather 3/4, RS 1/2, Circ 2 1/2, Cmt 6 1/2, LD DP 4 1/2 hrs.) Remarks: Day 29. Finish running 4 1/2" liner. Circ. RS. Cmt liner w/BJ Services. LD DP. No fluid lost or gained. EDCC \$173,564. CTCC \$179,345. EDDC \$13,921. CTDC \$2,642,252. CTWC \$2,821,597. AFEC \$8,427,300. (PN/JRH/LJ)
	<div><div>1</div><div>Weatherford Float Shoe</div><div>1.51'</div></div> <div><div>1</div><div>Weatherford Float Collar</div><div>1.34'</div></div> <div><div>1</div><div>4 1/2" 13.5# P110 LT&C Csg Pup Jt</div><div>10.03'</div></div> <div><div>1</div><div>Weatherford Landing Collar</div><div>1.89'</div></div> <div><div>166</div><div>4 1/2" 13.5# P110 LT&C Csg</div><div>7048.75'</div></div> <div><div>1</div><div>Weatherford Liner Hanger Assy set @ 11576'</div><div>27.25'</div></div> <div><div></div><div>Total</div><div>7090.77'</div></div> <div><div></div><div>Top of liner @ (MD)</div><div>11559.23'</div></div> <div><div></div><div>End of liner set @ (MD)</div><div>18650.00'</div></div>

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

Lease

University B20 12/13

Well No

W101DD

Location

365' FNL & 330' FWL

County

Winkler

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TX

Section

TwNShp

Rng

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10

API # 42-495-33830

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