



420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #7</b> <b>5/2/2018</b>  Daily Cost :        \$16,853 Cum Cost :        \$4,644,663	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>RU/RD Equipment : 06:00 Hrs - Continue RU HES Frac Fleet Equipment,</p> <p>11:00 Hrs - Prime-up HES frac pumps, Test HES iron to 15,000 psi.</p> <p>11:30 Hrs - Test and Set Pop-Off release valve to 1,500 psi,</p> <p>13:50 Hrs - Pressure test 12.5K NINE lubricator to 9,500 psi.</p> <p>Safety Meeting : 13:30 Hrs- Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 14:00 hrs - Prep to Frac Stage #1 of 44 @ 21,357'-21,543', 15:04 Hrs - Open Top Frac Valve on Well 40 - 40 rds. Frac'd Wolfcamp Shale "A" Stage #2 of 44 @ 21,357' - 21,543', via 7" 32# and 4 1/2" 13.5# casing. with 475,370 gal of Slickwater , 0 # Black Mountain100 Mesh; 510,240# Rangeland 100 Mesh. ATR @ 64.9 bpm, ATP @ 9,224 psi. Max rate: 69.4 bpm, Max pressure: 10,115 psi. ISIP: 4,224 psi; 5 min: 4,025 psi. 510,240 # Total Prop, w/ Prop Con @ .50 – 2.10 ppa placed. Load to recover - 11,318 bbls. Annulus Pressure @ 371 psi. Frac w/100% Fresh Water Temperature - 70*. @ 20:00 hrs TWO to WL.</p> <p>Note : Replace hydraulic hose on mountain movers.</p> <p>Note: Water Transfer lost Prime during Stage.</p> <p>Wireline Plug/Perf : 20:00 Hrs - PU plug/guns for WL Stage# 2 of 44. 20:33 Hrs -RIH w/ WL to Plug/Perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.74" ART, 8 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CBP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,493 psi. (420 bbls FW). set CFP @21,342'. Tested Plug to 6,300 psi. 22:08 hrs. Perf "Wolfcamp A" Stage #2 of 44 from 21,140' – 21,327,' with 10 - 3-1/8" guns loaded various spf, Various Phasing, penetration 24.75", Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35 OOH @ 00:05.</p> <p>Frac : 00:05 hrs - Prep to Frac Stage #2 of 44 @ 21,140'-21,327', 01:27 Hrs - Open Top Frac Valve on Well 40 - 40 rds. Frac'd Wolfcamp Shale "A" Stage #2 of 44 @ 21,140' - 21,327', via 7" 32# and 4 1/2" 13.5# casing. with 435,582 gal of Slickwater , 466,900 # Black Mountain100 Mesh; 45,320# Rangeland 100 Mesh. ATR @ 67.8 bpm, ATP @ 9,959 psi. Max rate: 71.5 bpm, Max pressure: 10,302 psi. ISIP: 4,564 psi; 5 min: 4,564 psi. 512,220 # Total Prop, w/ Prop Con @ .50 – 2.20 ppa placed. Load to recover - 10,371 bbls. Annulus Pressure @ 175 psi. Frac w/100% Fresh Water Temperature - 65*. @ 04:22 hrs TWO to WL.</p> <p>Wireline Plug/Perf : 04:22 Hrs - PU plug/guns for WL Stage# 3 of 44. 04:47 Hrs -RIH w/ WL to Plug/Perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.74" ART, 8 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CBP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,359 psi. (411 bbls FW). set CFP @21,125'. Tested Plug to 6,600 psi. 06:22 hrs. Perf'd "Wolfcamp A" Stage #3 of 44 from 20,924' – 21,110,' with 10 - 3-1/8" guns loaded various spf, Various Phasing, penetration 24.75", Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35 POOH @ Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 69°.  Wind Chill 69°.  Wind SE 10 mph</p>	



420141-009.01	WARWINK UNIVERSITY 18-34-33 UNIT 1H	Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		

<b>AFE : 2618002</b> <b>Completion Rpt #8</b> <b>5/3/2018</b>  Daily Cost : \$9,503 Cum Cost : \$4,654,165	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue POOH w/GE WL after Plug and perf Stage #3 of 44 @ 20,924'-21,110', TWO to Frac @ 08:20 Hrs.</p> <p>Frac : 08:15 hrs - Prep to Frac Stage #3 of 44, 09:00 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp Shale "A" Stage #3 of 44 @ 20,924' - 21,110', via 7" 32# and 4 1/2" 13.5# casing. with 418,446 gal of Slickwater , 177,740 # Black Mountain100 Mesh; 322,240# Rangeland 100 Mesh. ATR @ 70.3 bpm, ATP @ 9,836 psi. Max rate: 70.4 bpm, Max pressure: 10,498 psi. ISIP: 5,107 psi; 5 min: 4,181 psi. 499,980 # Total Prop, w/ Prop Con @ 50 – 2.18 ppa placed. Load to recover - 9,963 bbls. Annulus Pressure @ 258 psi. Frac w/100% Fresh Water Temperature -69*. @ 11:42 hrs TWO to WL.</p> <p>Wireline Plug/Perf : 11:42 Hrs - Prep to Plug and Perf Stage #4 of 44. 12:13 Hrs - RIH w/ WL to Plug/Perf w/ 2-3/4". Weight Bar, 2-3/4". CCL, 2.74" ART, 8 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CFP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 12 bpm @ 7,173 psi. ( 279 bbls FW). Got to 18,100' lost line tension, Pick-up on WL could not moved up, Contacted (Laz Delgado) Decision was made to set Plug and POOH w/WL, POOH w/WL and live gun string, 15:45 Hrs out of hole with WL and gun string, LD Gun string and confirm all guns not fired,</p> <p>RU/RD Equipment : 15:45 Hrs - RDMO HES Data van, Texas Pride Fuel and GE WL. Prep to MIRU Key 2-3/8 CTU.</p> <p>Waiting-Orders/Equip : 18:15 Hrs Wait on Key 2-3/8 CTU to AOL. Key AOL @ 19:00 Hrs.</p> <p>RU/RD Equipment : 19:45 Hrs - MIRU Key 2-3/8" Coil Tubing Unit and Support equipment.</p> <p>P/U TTS BHA as Follows, Weld on connector- 2.88" OD 1.38" ID .54' Length. Dual back pressure valve- 2.88" OD 1.00" ID 1.41' Length Hailey jar- 2.88" OD 1.00" ID 3.85' Length Hydraulic disconnect- 2.88" OD .69" ID 2.24' Length XRV agitator- 2.88" OD 2.25' Length Titan motor- 2.88" OD 11.55' Length Rotary Sub- 3.13" OD 1.00" ID .42' Length JZ Bit- 3.75" OD .45' Length</p> <p>Total length-22.70'</p> <p>Note: Pulled tested to 35,000, Tested motor at 3.0 BPM @ 3,500 psi Good Test. Pressure test Lube and Oil Patch Group Flowback lines to 8000 psi.</p> <p>Tripping : 01:15 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K" Casing Press = 5,400 psi and started RIH W/ 2-3/8" Key Coil unit and TTS Drillout BHA, Roll over pump 1.00 BPM, CP= 2,400 PSI. FR- 1.00 BPM, Got to 9,800' (LT @ 10,044'), Perform Weight check 22,000# PU and 18,000# RIH, RIH to 11,180', brought rate up to 3.0 BPM CP=5,500 psi, flowing back +/- 3.00 BPM, WH-2,700 continued RIH W/ 2-3/8" Key Coil Tubing at Report Time EOT @ 16,000'.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 65°.  Wind Chill 65°.  Wind E 6 mph</p>
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Well History

<p><b>AFE : 2618002</b> <b>Completion Rpt #9</b> <b>5/4/2018</b></p> <p>Daily Cost :     \$120,153 Cum Cost :     \$4,774,318</p>	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Tripping : 06:00 Hrs - Continue RIH w/Key 2-3/8" Coil @ +- 65 fpm, Rate - 3.0 BPM, CP = 5,500 psi, flowing back +/- 3.00 BPM, WH-2,700.</p> <p>Drilling/Milling : 06:17 Hrs - Tag CFP #1 (Pre-Set) @ 18,100' (18,256' CTD). Mill on Plug, Plug Milled in 15 Mins, Pumped 10 bbls sweep when thru Plug w/ target visc 80. Pump rate 3.0 bpm 100% FW (FR 29 Visc) with return rate of +/- 3.0 on 4/64 ck, CP @ 5,800 psi, WH @ 2,700 psi. Continue pumping 5 BBL sweeps every 84 BBLS (Capacity) Wash to Plug # 2 @ 50 to 55 fpm, RIH WT 24K. 9 5/8 casing Press = 500 psi.</p> <p>07:52 Hrs - Tag CFP#2 @21,220' (21,125' CTD). Mill on Plug, Plug Milled in 15 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 80. Pump rate 3.50 bpm 100% FW (FR 29 Visc) with return rate of +/- 3.50 on 25/64 ck, CP @ 6,300 psi, WH @ 1,200 psi. Continue pumping 5 BBL sweeps every 84 BBLS (Capacity Sweeps), Wash down to 21,267' CTD @ 20 to 25 fpm, RIH WT 12K. 9 5/8 casing Press = 500 psi. Contacted (Field Sup - Laz Delgado) decision to circulate Well and POOH.</p> <p>Note: No Pickup on Plugs.</p> <p>Note : No gas in Oil Patch Group Flowback tank (Check with Quad meter)</p> <p>Circ/Displace : 08:30 Hrs - Send 10 bbls 80 visc sweep 20 bbl FW spacer 10 bbls 80 visc sweep wait to exit bit,</p> <p>Note: pulled Screen after sweep got to surface, OPG Screen traced of sand small plug parts.</p> <p>Tripping : 11:08 - Started to POOH w/KEY 2-3/8" Coil Tubing and TTS BHA, @ +- 30 fpm, Rate 3.5 bbls, return rate 3.5 bbls, Circulating Press - 6200 psi, WH Press - 1800 psi. sending a 10 bbls 80 visc swep every 1000', LD and confirm all tools are on Surface, Blow Reel down and RDMO Key 2-3/8 CT and Support Equipment.</p> <p>RU/RD Equipment : 19:00 Hrs - RDMO Key 2-3/8" Coil Tubing Unit and Support equipment.</p> <p>RU/RD Equipment : 20:15 Hrs - MIRU HES Data van, Texas Pride Fuel and GE WL, Prep to perform Injection Test.</p> <p>Casing Test :22:15 Hrs- Prime up and Psi Test , Perform Inflection Test:</p> <p>Max Pressure: 10,112 psi Max Rate: 50.33 bpm Average Pressure: 7,845 psi Average Rate: 28.02 bpm</p> <p>Total bbls pumped on injection test: 617.7 bbls</p> <p>Wireline Plug/Perf : 23:45 Hrs - Prep to Plug and Perf Stage #4 of 44. 00:07 Hrs - RIH w/ WL to Plug/Perf w/ 2-3/4". Weight Bar, 2-3/4". CCL, 2.74" ART, 10 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CFP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,248 psi. (344 bbls FW). set CFP @ 20,909'. Tested Plug to 6,500 psi, Attempted to set plug on stage # 4 when shot computer showed misfire, picked up 2' to jar tools checked again tools showed good, brought pumps back on to pump tools back in place and psi came up to 5500, increased psi to 6500, (Good Test) Witness by Cimarex Charles Espinoza and Craig Hughes and GE FSM Wayne Tite. 02:15 hrs. Perf "Wolfcamp A" Stage #4 of 44 from 20,856' – 20,894,' with 3 - 3-1/8" guns loaded various spf, Various Phasing, penetration 24.75", Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35, start shooting guns shot three guns and could not move had (Movement on CCL read one collar), could not get guns to move GE Operator and Engineer did inventory on location found wrong setting tool was picked up, not one that charge was installed in. Called Superintendent and decision to activate ART tool, Released tool and tool would not release, Called Superintendent and advised that tool would not release, Decision to get GE Manager to location with solution to get off release tool.</p> <p>Waiting-Orders/Equip : 03:30 Hrs Wait on GE Manager to AOL to advise how to get off ART tool. Continue to work WL to get Tool to Release at Report Time.</p> <p>Note: Key 2-3/8 CT called and Leaving Midland at 04:30 Hrs, TTS has been Notified and will pickup fishing tools as soon as GE has solution.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 65°.  Wind Chill 65°.  Wind E 8 mph</p>
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420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #10</b> <b>5/5/2018</b>  Daily Cost :        \$52,269 Cum Cost :        \$4,826,587	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>No Activity/SDFN : 06:00 - 08:30 Hrs - Wait for WL GE district manager to arrive on location.</p> <p>Wireline Plug/Perf : 08:30 Hrs - WL GE district manager Arrive on location. Started working WL Up to 8,500# max pull, and down to 2000#, while HES pumped 20 bbls @ 9300 psi down casing, no results on WL tools coming loose. Field Sup on Location (Laz Delgado)</p> <p>Tripping : 12:00 Hrs - Kinley Cutter Arrive on location, Informed Completion Sup (Mike Fraley)</p> <p>12:30 Hrs - Prep to Cut WL, Close WL Bop's Bleed Lube off.</p> <p>PU Time delay WL Cutter as Follows:</p> <p>Fishing Neck- 1.30" OD 1.75" ID .54' Length.</p> <p>Rod- 1.30" OD 1.00" ID 1.625' Length</p> <p>Sleeve- 2.26" OD 1.00" ID 0.54' Length</p> <p>Bottom Guide- 3.50" OD 1.00" ID .58' Length</p> <p>Pump WL in hole pumped 20 bpm, pumped total of 1,263 bbls.</p> <p>WL cut @ 97 mins. Pooh with WL all Line accounted for Rig-up + BU + line in Hole.</p> <p>RU/RD Equipment : 18:30 Hrs - MIRU Key 2-3/8" Coil Tubing Unit and Support equipment.</p> <p>P/U TTS BHA as Follows,</p> <p>Weld on connector- 2.88" OD 1.38" ID .30' Length.</p> <p>Dual back pressure valve- 2.88" OD 1.00" ID 1.45' Length</p> <p>Hailey jar- 2.88" OD 1.00" ID 3.85' Length</p> <p>Hydraulic Disconnect- 2.88" OD .69" ID 2.24' Length</p> <p>XRV agitator- 2.88" OD 3.07' Length</p> <p>Titan motor- 2.88" OD 5.70' Length</p> <p>Series 150 Overshot- 3.75" OD 1.38" ID 5.65' Length</p> <p>Cutlip Guide- 3.75" OD, .63' Length</p> <p>Total length- 22.89'</p> <p>Note: Pulled tested to 40,000, Tested motor at 3.0 BPM @ 2,000 psi Good Test. Pressure test Lube and Oil Patch Group Flowback lines to 8000 psi.</p> <p>Tripping : 23:42 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K" Casing Press = 3,800 psi and started RIH W/ 2-3/8" Key Coil unit and TTS Fishing BHA, Roll over pump .50 BPM, CP= 4,200 PSI. FR- .50 BPM, Got to 9,800' (LT @ 10,044'), Perform Weight check 25,000# PU and 8,000# RIH, RIH to 11,180', brought rate up to 1.5 BPM CP=4,300 psi, flowing back +/- 1.50 BPM, WH-3,400 continued RIH W/ 2-3/8" Key Coil Tubing. Tag Top of Fish @20,905' CTD saw 600 psi increase SD pump sat down twice to ensure latched, brought pump back online all indications of latch, showing 600 psi increase, Prep to Pooh.</p> <p>Tripping : 04:14 Hrs- POOH W/ Key 2-3/8 CT and TTS Fishing BHA @ +/- 30 fpm, EOT @ 15,500' at Report Time</p> <p>Operational Note : Production Facility 90% Completed,</p> <p>JSA's= 18</p> <p>Spills= 0</p> <p>Incidents= 0</p> <p>Hot Work Permit= 0</p> <p>Stop Work Authority= 0</p> <p>Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows:</p> <p>Temp 55°.</p> <p>Wind Chill 55°.</p> <p>Wind N 4 mph</p>	





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Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #11</b> <b>5/6/2018</b>  Daily Cost :        \$9,503 Cum Cost :        \$4,836,090		<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Tripping : 06:00 Hrs- Continue POOH W/ Key 2-3/8 CT and TTS Fishing BHA @ +/- 30 fpm, Got to LT with no issues, Speed reel to +- 75 fpm, Bumped up Close middle master valve, Confirm recover Fish (Kinley cutter), LD Series 150 Overshot- 3.75" OD 1.38" ID 5.65' Length, Cut-lip Guide- 3.75" OD, .63' Length</p> <p>RU/RD Equipment : 11:00 Hrs - P/U TTS BHA as Follows, Weld on connector- 2.88" OD 1.38" ID .30' Length. Dual back pressure valve- 2.88" OD 1.00" ID 1.45' Length Hailey jar- 2.88" OD 1.00" ID 3.85' Length Hydraulic Disconnect- 2.88" OD .69" ID 2.24' Length XRV agitator- 2.88" OD 3.07' Length Titan motor- 2.88" OD 5.70' Length Series 150 Overshot- 3.75" OD 2.275" ID 5.65' Length Cutlip Guide- 3.75" OD, .63' Length Total length- 22.89'</p> <p>Note: Tested motor at 3.0 BPM @ 2,000 psi Good Test. Pressure test Lube and Oil Patch Group Flowback lines to 8000 psi.</p> <p>Tripping : 12:00 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K" Casing Press = 3,800 psi and started RIH W/ 2-3/8" Key Coil unit and TTS Fishing BHA, Roll over pump .50 BPM, CP= 4,200 PSI. FR- .50 BPM, Got to 9,800' (LT @ 10,044'), Perform Weight check 28,000# PU and 8,000# RIH, RIH to 11,180', brought rate up to .8 BPM CP= 3,150 psi, flowing back +/- .8 BPM, WH-2,400 continued RIH W/ 2-3/8" Key Coil Tubing. Tag Top of Fish @20,900' CTD saw 400 psi increase SD pump sat down twice, pulled to 50K, weight came down to 45K, Came up to 20,800' CDT went down and stack down, came to 20,700' CTD went down and stack down,</p> <p>17:30 Hrs - Continue POOH w/Key coil tubing, OOH @ 23:00 Hrs- Retrieved WT Bar CCL and ART tool above ART disconnect. LD tools and cut off 50' of coil Prep to Weld on Coil Connector.</p> <p>RU/RD Equipment : 23:00 Hrs - Cut 50' of Pipe Weld on new Coil connector</p> <p>P/U New TTS BHA as Follows, Weld on connector- 2.88" OD 1.38" ID .30' Length. Dual back pressure valve- 2.88" OD 1.00" ID 1.45' Length Hailey jar- 2.88" OD 1.00" ID 3.85' Length Hydraulic Disconnect- 2.88" OD .69" ID 2.24' Length XRV agitator- 2.88" OD 3.07' Length Titan motor- 2.88" OD 5.70' Length Rotary Sub- 2.88" OD 1.38" ID .38' Length Ported Sub- 2.88" OD 1.38" ID .53' Length Series 150 Overshot- 3.75" OD 1.38" ID 5.27' Length Cutlip Guide- 3.75" OD, .63' Length</p> <p>Total length- 23.42'</p> <p>Note: Pulled tested to 40,000, Tested motor at 3.0 BPM @ 2,100 psi Good Test. Pressure test Lube and Oil Patch Group Flowback lines to 8000 psi.</p> <p>Tripping : 02:00 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K" Casing Press = 2,300 psi and started RIH W/ 2-3/8" Key Coil unit and TTS Fishing BHA, Roll over pump .50 BPM, CP= 2,200 PSI. FR- .50 BPM, Got to 9,800' (LT @ 10,044'), Perform Weight check 24,000# PU and 8,000# RIH, RIH to 11,180', brought rate up to 1.5 BPM CP=3,000 psi, flowing back +/- 1.50 BPM, WH-2,400 continued RIH W/ 2-3/8" Key Coil Tubing. Tag Top of Fish @20,902' CTD, PU to 50K Sat down twice to Ensure Latch, PU 20' RIH No Movement, PU 100' RIH no movement Down, brought pump back online all indications of latch, showing 600 psi increase, Field Superintendent Lazz Decision to POOH, Prep to Pooh.</p> <p>Tripping : 05:45 Hrs- POOH W/ Key 2-3/8 CT and TTS Fishing BHA @ +/- 30 fpm, EOT @ 19,500' at Report Time</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 10 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 55°.  Wind Chill 55°.  Wind N 4 mph</p>



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Prop Depth : 21,699		
API : 42-475-37258-00-00		

<b>AFE : 2618002</b> <b>Completion Rpt #12</b> <b>5/7/2018</b>  Daily Cost :     \$262,567 Cum Cost :       \$5,098,656	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Tripping : 06:00 Hrs - Continue POOH W/ Key 2-3/8 CT and TTS Fishing BHA @ +/- 30 fpm, Reached Surface bumped up and closed frac valve, bleed pressure off and came off well no fish recovered. Visited with Mike Fraley and Mark Britton decision was to run short catch overshot. Confirmed weld on connector still in good shape.</p> <p>Waiting-Orders/Equip : 13:45 Wait on Short catch overshot coming from Odessa TX</p> <p>RU/RD Equipment : 16:30 Hrs - P/U New TTS BHA as Follows,</p> <p>Weld on connector- 2.88" OD 1.38" ID .30' Length. Dual back pressure valve- 2.88" OD 1.00" ID 1.45' Length Hailey jar- 2.88" OD 1.00" ID 3.85' Length Hydraulic Disconnect- 2.88" OD .69" ID 2.24' Length XRV agitator- 2.88" OD 3.07' Length Titan motor- 2.88" OD 5.70' Length Rotary Sub- 2.88" OD 1.38" ID .38' Length Ported Sub- 2.88" OD 1.38" ID .53' Length Series 70 Overshot 1" thru 2-3/8- 3.75" OD 1.38" ID 2.04' Length(w/2" Grapple)</p> <p>Total length- 19.03'</p> <p>Note: Tested motor at 2.0 BPM @ 1,500 psi Good Test. Pressure test Lube and Oil Patch Group Flowback lines to 5000 psi.</p> <p>Tripping : 02:00 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K" Casing Press = 2,300 psi and started RIH W/ 2-3/8" Key Coil unit and TTS Fishing BHA, Roll over pump .50 BPM, CP= 2,200 PSI. FR- .50 BPM, Got to 9,800' (LT @ 10,044'), Perform Weight check 24,000# PU and 8,000# RIH, RIH to 11,180', brought rate up to 1.5 BPM CP=3,000 psi, flowing back +/- 1.50 BPM, WH-2,400 continued RIH W/ 2-3/8" Key Coil Tubing. Tag Top of Fish @20,900' CTD, PU to 40K Sat down twice to Ensure Latch, PU to 60K Wt broke back , PU 100' RIH no movement Down, brought pump back online pump all indications of latch, showing 200 psi increase, Field Superintendent Lazz Decision to POOH, Prep to Pooh.</p> <p>Tripping : 21:30 Hrs- POOH W/ Key 2-3/8 CT and TTS Fishing BHA @ +/- 30 fpm, Got to LT with no issues, Speed reel to +- 75 fpm, Bumped up Close middle master valve, Confirm recovered Fish (10 Guns and Setting Tool CFP @ 20,909'), LD TTS Fishing BHA Prep to Blow Reel dry and RDMO Key 2-3/8 CT and Support Equipment.</p> <p>RU/RD Equipment : 04:00 Hrs - Blow Reel Dry and RDMO Key 2-3/8" Coil Tubing Unit and Support equipment.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 15 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 61°. Wind Chill 61°. Wind E 7 mph</p>
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420141-009.01	WARWINK UNIVERSITY 18-34-33 UNIT 1H	Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		

<b>AFE : 2618002</b> <b>Completion Rpt #13</b> <b>5/8/2018</b>  Daily Cost :       \$40,478 Cum Cost :        \$5,139,134	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>RU/RD Equipment : 06:00 Hrs - Continue to Blow Reel Dry and RDMO Key 2-3/8" Coil Tubing Unit and Support equipment.</p> <p>RU/RD Equipment : 08:30 Hrs - MIRU HES Data van, Texas Pride Fuel and GE WL, Prep to perform Injection Test.</p> <p>Circ/Displace : 11:30 Hrs- Prime up, Pressure Test Nine Lube to 9,500 Psi, Test HES iron to 11,500 psi, Perform Inflection Test:</p> <p>Max Pressure: 10,272 psi, Max Rate: 40.43 bpm, Average Pressure: 9,842 psi, Average Rate: 32.56 bpm</p> <p>Total bbls pumped on injection test: 719.0 bbls</p> <p>Wireline Plug/Perf : 13:45 Hrs - Prep to Plug and Perf Stage #4 of 44. 14:10 Hrs - RIH w/ WL to Plug/Perf w/ 2-3/4". Weight Bar, 2-3/4". CCL, 2.74" ART, 10 x 3-1/8 in. 20,000# Rated H1 guns, w/Baker #10 setting tool. HES 3.66" CFP ( Batch # 101912704), Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,977 psi. ( 396 bbls FW) 15:45 Hrs Attempt to Set CFP @ 20,841', Did not loose any line tension,when shot computer showed fired, attempt to read guns it show to be short, Contacted Completion Supt (Frale) Decision to POOH,</p> <p>Tripping : 16:30 Hrs - Stared to POOH w/GE WL @ +/- 40 fpm (Not showing CCL movement) pulling free @ 1890# of line tension Got to 15,000' CCL started reading, continue to POOH, Got to 11,000' and checked guns got good reading, Continue to POOH. Bump up Bleed off well (No Plug), LD WL Tools and Guns to Inspect, Psi Test Plug to7000psi (Good Test).</p> <p>Note: WellTech Tractor Called @16:42 Hrs</p> <p>Operational Note : 22:00 Hrs- LD and Inspect WL tools, Cimarex Rep's Charles Espinoza and Eric Lenz, GE FSM Wayne Tite, Inspected all tools, tools checked thru to the Cable Head, Found Intermittent Short/Open at the cable-head tear drop. Cut 200' of Line and Re-Head.</p> <p>Waiting-Orders/Equip : 22:45 Hrs- Wait on Well Tech Tractor to AOL. Tractor AOL @00:45 Hrs</p> <p>Wireline Plug/Perf : 00:45 Hrs - Prep to PU WellTech Tractor/guns for WL Stage#4 of 44. 03:40 Hrs -RIH w/ WL to Perf w/ 1.45" Cable-Head, 3.17" Welltech Tractor (Wheels 3.37", 2.75" CCL, 3.15 Safety Sub, Firing-Head 10 x 3-1/8 in. 20,000# Rated H1 guns, Correlate on depth to LT @10,044'. Start Tractor down when guns reached 70° @ 11,900'. RIH W/Tractor and Guns at Report Time.</p> <p>Operational Note : Production Facility 90% Completed,</p> <p>JSA's= 18</p> <p>Spills= 0</p> <p>Incidents= 0</p> <p>Hot Work Permit= 0</p> <p>Stop Work Authority= 0</p> <p>Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows:</p> <p>Temp 71°.</p> <p>Wind Chill 71°.</p> <p>Wind E 8 mph</p> <p>Mostly Cloudy</p>
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<b>AFE : 2618002</b> <b>Completion Rpt #14</b> <b>5/9/2018</b>  Daily Cost :       \$39,191 Cum Cost :        \$5,480,029	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue RIH w/Well-Tech Tractor/guns w/1.45" Cable-Head, 3.17" Well-ech Tractor (Wheels 3.37", 2.75" CCL, 3.15 Safety Sub, Firing-Head 10 x 3-1/8 in. 20,000# Rated H1 guns, Correlate on depth to LT @10,044'. Start Tractor down when guns reached 70° @ 11,900'. 09:28 hrs: Perf Wolfcamp "A" Stage #4 of 44 from 20,646' – 20,831' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. POOH W/GE WL Logging out collars. TWO to Frac @ 11:35 Frac : 11:35 hrs - Prep to Frac Stage #4 of 44 @ 20,646'-20,831', 12:35 Hrs - Open Top Frac Valve on Well 43 - 43 rds. Frac'd Wolfcamp Shale "A" Stage #4 of 44 @ 20,646' - 20,831', via 7" 32# and 4 1/2" 13.5# casing , 471,576 gal of Slickwater, 462,280# Black Mountain 100 mesh, Rangeland 100 mesh, Tracer CFT 3900 ATR @ 69.9 bpm, ATP @ 9,395 psi. Max rate: 70.6 bpm, Max pressure: 10,533 psi. ISIP: 4,669 psi; 5 min: 4,479 psi. 509,200# Total Prop w/ Prop Con @ .50 – 2.28 ppa placed. Load to recover - 11,228 bbls. Annulus Pressure @ +/-259 psi. Frac water is 100% fresh water. Tracer CFT/IWT-1000 1-GAL, eOFT-15000 250g, Water Temperature -75°. 15:25 - TWO to WL.</p> <p>Wireline Plug/Perf : 15:35 Hrs - Prep to PU plug/guns for WL stage #5 of 44. 15:55 Hrs - RIH w/WL to plug/perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 10 x 3-1/8". 20,000# Rated H1 guns, w/Baker #10 setting tool, HES 3.66" CBP (Batch # 1019122704). Correlate on depth to LT @ 10,044'. While HES Swapping Valves to Pump down HES Line Boss opened wellhead side instead of Truck side flowing well, stopped operations Call Field Superintendent Charlie Woods decision to Pooh and Flush Well. 19:26 - Stop @ 200' Due to Lightning in the area. 20:00- Finish POH to surface and LD guns.</p> <p>Circ/Displace : 20:05 Hrs- Prime up and Psi Test , Flush Wellbore:</p> <p>Max Pressure: 10,368 psi Max Rate: 48.8 bpm Average Pressure: 9,766 psi Average Rate: 44.20 bpm</p> <p>Total bbls pumped on injection test: 524.6 bbls</p> <p>Wireline Plug/Perf : 21:00 Hrs - PU plug/guns for WL Stage# 5 of 44. 21:22 Hrs -RIH w/ WL to Plug/Perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.74" ART, 10 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CBP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,301 psi. (359 bbls FW). set CBP @20,631'. Tested Plug to 6,600 psi. Saw Wt Drop, Could not get Plug to Test PU WL pump back down Plug still in place, Attempt to Psi test again with no Success, Called Superintendent Decision to Pooh and check tools and PU another CBP. Pooh @ 23:27 Hrs. OOH @ 00:55 Hrs</p> <p>Circ/Displace : 00:45 Hrs- Prime up and Psi Test , Perform Injection Test:</p> <p>Max Pressure: 7,289 psi Max Rate: 11.1 bpm Average Pressure: 7,180 psi Average Rate: 10.0 bpm</p> <p>Total bbls pumped on injection test: 57.5 bbls</p> <p>Wireline Plug/Perf : 01:30 Hrs - PU plug/guns for WL Stage# 5 of 44. 01:45 Hrs -RIH w/ WL to Plug/Perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.74" ART, 10 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CBP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 7,646 psi. (370 bbls FW). Attempt to set CBP @20,621' saw break did not see WT Drop. Attempt to test Plug to 6,600 psi would not Test. Called Superintendent Decision to Pooh and check tools and PU. Pooh @ 03:50 Hrs.</p> <p>Tripping : 04:00 Hrs - Stared to POOH w/GE WL @ +- 40 fpm pulling free @ 2350# of line tension, POOH @ Report Time.</p> <p>Note: WellTech Tractor Called @ 04:06 Hrs Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 65°.  Wind Chill 65°.  Wind E 4 mph Clear</p>
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420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #15</b> <b>5/10/2018</b>  Daily Cost :        \$9,503 Cum Cost :        \$5,489,532	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue to POOH w/GE WL @ +- 40 fpm pulling free @ 2250# of line tension, Got to liner top increase Speed to +- 100 fpm</p> <p>10:00 Hrs - Bump-up w/WL Close Well, LD Gun string confirm no plug and no guns fired</p> <p>Circ/Displace : 10:00 Hrs - Prime up and Psi Test , Perform Injection Test:</p> <p>Max Pressure: 9,747 psi, Max Rate: 11.32 bpm, Average Pressure: 9,017 psi, Average Rate: 10.13 bpm, Total bbls pumped on injection test: 103 bbls</p> <p>Note: Contacted Completion Supt - (Fraleigh) Decision was made to RIH w/new HES CBP and new gun string.</p> <p>Wireline Plug/Perf : 10:30 Hrs - Prep to PU plug/guns for WL Stage# 5 of 44. 11:00 Hrs -RIH w/ WL to Plug/Perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.74" ART, 10 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CBP ( Batch # 10173025). Correlate on depth to LT @10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 8,251 psi. (331 bbls FW), Got to 18,134' line tension started to drop from 175 fpm to 110 fpm, (At 9 bpm HES parameters on line speed have to be above 96 fpm) Contacted Completion Supt- (Fraleigh) Decision was made to POOH w/GE WL</p> <p>Tripping : 13:00 Hrs - Started to POOH w/GE WL @ +- 40 fpm pulling free @ 2250# of line tension. Got to liner top increase Speed to +- 100 fpm</p> <p>18:30 Hrs - Bump-up w/WL Close Well, LD Gun string confirm plug attached and no guns fired</p> <p>Wireline Plug/Perf : 18:30 Hrs - Prep to PU WellTech Tractor/guns for WL Stage#5 of 44. 22:14 Hrs -RIH w/ WL to Perf w/ 1.45" Cable-Head, 3.17" Welltech Tractor (Wheels 3.37", 2.75" CCL, 3.15 Safety Sub, Firing-Head 10 x 3-1/8 in. 20,000# Rated H1 guns, w/ Baker #10 setting tool. HES 3.66" CFP ( Batch # 101912704). Correlate on depth to LT @10,044'. Start Tractor down when guns reached 70° @ 11,900'. 03:43 Hrs Set CFP @ 20,611', Tested Plug to 7,000 psi. 03:52 hrs: Perf Wolfcamp "A" Stage #5 of 20 from 20,431' – 20,606' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. POH to surface and LD guns and Tractor. TWO to HES Frac @ 05:45</p> <p>Note: Moved Perf's 20,615'-20,616' to 20,605'-20,606' due to Moving CFP up hole.</p> <p>Note: CBP@ 20,631', CBP@ 20,621', CFP @ 20611'</p> <p>Frac : 05:45 hrs - Prep to Frac Stage #5 of 44 @ 20,431'-20,606', Wolfcamp Shale "A" at Report Time.</p> <p>Operational Note : Production Facility 90% Completed,</p> <p>JSA's= 18</p> <p>Spills= 0</p> <p>Incidents= 0</p> <p>Hot Work Permit= 0</p> <p>Stop Work Authority= 0</p> <p>Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows:</p> <p>Temp 68°.</p> <p>Wind Chill 68°.</p> <p>Wind E 8 mph</p> <p>Clear</p>	



420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #16</b> <b>5/11/2018</b>  Daily Cost :        \$36,068 Cum Cost :        \$5,528,119	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Continue to Frac Stage #5 of 44 @ 20,431'-20,606', 07:16 Hrs - Open Top Frac Valve on Well 43 - 43 rds. Frac'd Wolfcamp Shale "A" Stage #5 of 44 @ 20,431' - 20,606', via 7" 32# and 4 1/2" 13.5# casing , 486,318 gal of Slickwater, 508,660# Black Mountain 100 mesh, 0# Rangeland 100 mesh, Tracer CFT/WT 1100 5GAL ,eOFT 16450 250 g, ATR @ 70.2 bpm, ATP @ 10,280 psi. Max rate: 70.4 bpm, Max pressure: 10,280 psi. ISIP: 4,653 psi; 5 min: 4,325 psi. 486,318# Total Prop w/ Prop Con @ .50 – 2.18 ppa placed. Load to recover - 11,579 bbls. Annulus Pressure @ +/-788 psi. Frac water is 100% fresh water, Water Temperature -75°. 10:18 - TWO to WL.</p> <p>Wireline Plug/Perf : 10:18 Hrs- Prep to plug/guns for WL stage #6 of 44. 11:17 Hrs - RIH w/ WL to plug/perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, HES 3.66" CFP (Batch # 101912704), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,299' psi. (466 bbls FW). 12:55 Hrs Set CFP @ 20,416', Tested Plug to 6,300 psi. 13:00 hrs: Perf Wolfcamp "A" Stage #6 of 44 from 20,216' – 20,401' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. POOH TWO to Frac @ 15:00 Hrs.</p> <p>Frac : 15:00 hrs - Prep to Frac Stage #6 of 44 @ 20,216'-20,401', 16:42 Hrs - Open Top Frac Valve on Well 43 - 43 rds. Frac'd Wolfcamp Shale "A" Stage #6 of 44 @ 20,216' - 20,401', via 7" 32# and 4 1/2" 13.5# casing , 427,602 gal of Slickwater, 507,700# Black Mountain 100 mesh, 0# Rangeland 100 mesh, Tracer CFT/WT 1100 5GAL ,eOFT 16450 250 g, ATR @ 70.1 bpm, ATP @ 9,275 psi. Max rate: 70.6 bpm, Max pressure: 10,206 psi. ISIP: 4,772 psi; 5 min: 4,401 psi. 507,700# Total Prop w/ Prop Con @ .50 – 2.29 ppa placed. Load to recover - 10,181 bbls. Annulus Pressure @ +/-615 psi. Frac water is 100% fresh water, Water Temperature -92.8°. 19:27 - TWO to WL.</p> <p>Wireline Plug/Perf : 19:27 Hrs- Prep to plug/guns for WL stage #7 of 44. 20:00 Hrs - RIH w/ WL to plug/perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 5,300' psi. (52 bbls FW). After attempting to pump thru Curve and not getting LTEN or Speed while pumping down, Called Superintendent decision to POOH and Check tool before pumping down again, POOH.</p> <p>Tripping : 21:54 Hrs - POOH from 12,300' w/GE WL @ +- 40 fpm pulling free @ 1850# of line tension, Got to liner top increase Speed to +- 250 fpm</p> <p>23:15 Hrs - Bump-up w/WL Close Well, LD Gun string Found Sand in Plug and Setting Tool Hella-seal Membrane on Plug was tore off.</p> <p>Circ/Displace : 23:30 Hrs - Prime up and Psi Test , Flush Well:</p> <p>Max Pressure: 9,817 psi, Max Rate: 49.9 bpm, Average Pressure: 7,858 psi, Average Rate: 34.9 bpm,Total bbls pumped on Flush: 689.7 bbls</p> <p>Wireline Plug/Perf : 23:55 Hrs- Prep to plug/guns for WL stage #7 of 44. 00:25 Hrs - RIH w/ WL to plug/perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 6,253 psi. 273 bbls FW). 01:55 Hrs Set CFP @ 20,416', Tested Plug to 6,300 psi. 01:38 hrs: Perf Wolfcamp "A" Stage #7 of 44 from 20,001' – 20,186' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. POOH TWO to Bronco @ 02:50 Hrs.</p> <p>Note: Moved Plug 6' to Avoid Collar.</p> <p>Equipment Repair : 02:50 Hrs- Bronco Services Grease and Torque 7 1/16" 10K Downing Frac stack and Check Bonnet Bolts per Cimarex Best. No issues found. TWO to HES Frac @ 03:50.</p> <p>Frac : 03:50 hrs - Prep to Frac Stage #7 of 44 @ 20,001'-20,186', 04:02 Hrs - Open Top Frac Valve on Well 43 - 43 rds. Frac'd Wolfcamp Shale "A" Stage #7 of 44 @ 20,001' - 20,186', via 7" 32# and 4 1/2" 13.5# casing at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 69°.  Wind Chill 69°.  Wind E 10 mph  Clear</p>	



420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #17</b> <b>5/12/2018</b>  Daily Cost :        \$9,503 Cum Cost :        \$5,537,622		<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Continue Frac'g Stage #7 of 44 @ 20,001'-20,186', via 7" 32# and 4 1/2" 13.5# casing, 424,044 gal of Slickwater, 281,040# Black Mountain 100 mesh, 225,860 Hi-Crush100 mesh, Tracer CFT/WT 1100 1 GAL ,eOFT 16450 250 g, ATR @ 70.4 bpm, ATP @ 8,997 psi. Max rate: 70.6 bpm, Max pressure: 9,415 psi. ISIP: 5,026 psi; 5 min: 4,181 psi. 506,900# Total Prop w/ Prop Con @ .50 – 2.27 ppa placed. Load to recover - 10,096 bbls. Annulus Pressure @ +/- 753 psi. Frac water is 100% fresh water, Water Temperature -77.0°. 06:45 - TWO to WL</p> <p>Wireline Plug/Perf : 06:45 Hrs- Prep to plug/guns for WL stage #8 of 44. 07:18 Hrs - RIH w/ WL to plug/perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4 -18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 5,823 psi. (319 bbls FW). 08:40 Hrs Set CFP @ 19,986', Tested Plug to 7,000 psi. 08:46 hrs: Perf Wolfcamp "A" Stage #8 of 44 from 19,786' – 19,971' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. POOH TWO to Frac @ 10:20 Hrs.</p> <p>Frac : 10:20 hrs - Prep to Frac Stage #8 of 44, 11:15 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #8 of 44 @ 19,786' - 19,971', via 7" 32# and 4 1/2" 13.5# casing, Shut Down due to Water transfer lost suction at Frac Pit.</p> <p>Waiting-Orders/Equip : 12:45 Hrs- Wait on Water Transfer to to Repair Pump and Hose.</p> <p>23:07 Hrs- Replaced parts and still was unable to get water to tank farm continue to wait on parts.</p> <p>03:45 Hrs- Water transfer started to move water from the Pit to fill Tank Farm.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 70°.  Wind Chill 70°.  Wind N 3mph  Mostly Clear</p>



Well History

<b>AFE : 2618002</b> <b>Completion Rpt #18</b> <b>5/13/2018</b>  Daily Cost : \$9,503 Cum Cost : \$5,547,124	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Prep to Frac Stage #8 of 44, 06:07 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #8 of 44 @ 19,786' - 19,971', via 7" 32# and 4 1/2" 13.5# casing, 450,612 gal of Slickwater, 231,300# Black Mountain 100 mesh, 277,3230 Rangeland 100 mesh, Tracer CFT/WT 1200 5 GAL ,eOFT 16450 250 g, ATR @ 70.3 bpm, ATP @ 9,086 psi. Max rate: 71.0 bpm, Max pressure: 9,947 psi. ISIP: 5,087 psi; 5 min: 4,265 psi. 508,620# Total Prop w/ Prop Con @ .50 – 2.24 ppa placed. Load to recover - 10,729 bbls. Annulus Pressure @ +/- 600 psi. Frac water is 100% fresh water, Water Temperature -74.0°. 07:55 - TWO to WL</p> <p>Wireline Plug/Perf : 07:55 Hrs- Prep to plug/guns for WL stage #9 of 44. 08:20 Hrs - RIH w/ WL to plug/perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4 -18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 5,823 psi. (257 bbls FW). 09:38 Hrs Set CFP @ 19,771', Tested Plug to 7,000 psi. 08:46 hrs: Perf Wolfcamp "A" Stage #9 of 44 from 19,694' – 19,756' with 4 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 17. POOH w/WL @ 12:00 Hrs.</p> <p>Note : Confirm 6 Cluster did not fired only four clusters fire 17 Total holes Note: Check gun string found switches to be good, check ART found switch to be shorted. Circ/Displace : 12:00 Hrs - Prime up and Psi Test , Flush Well:</p> <p>Max Pressure: 9,007 psi, Max Rate: 26.03bpm, Average Pressure: 7,689 psi, Average Rate: 17.35 bpm,Total bbls pumped on Flush: 246 bbls</p> <p>Wireline Plug/Perf : 13:00 Hrs- Prep to plug/guns for WL stage #9 of 44. 13:40 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 sleeve, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 12 bpm @ 6,823 psi. (322 bbls FW) 15:14 hrs: Perf Wolfcamp "A" Stage #9 of 44 from 19,572' – 19,756' with 6 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 18. TWO to Frac @ 16:25 Hrs.</p> <p>Frac : 16:25 hrs - Prep to Frac Stage #9 of 44, 17:08 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #9 of 44 @ 19,572' - 19,756', via 7" 32# and 4 1/2" 13.5# casing, 418,885 gal of Slickwater, 0# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 505,300# Hi-Crush 100 mesh, Tracer CFT/WT 1200 5 GAL ,eOFT 16450 250 g, ATR @ 70.2 bpm, ATP @ 9,187 psi. Max rate: 71.3 bpm, Max pressure: 10,085 psi. ISIP: 4,593 psi; 5 min: 4,626 psi. 505,300# Total Prop w/ Prop Con @ .50 – 2.14 ppa placed. Load to recover - 9,973 bbls. Annulus Pressure @ +/- 600 psi. Frac water is 100% fresh water, Water Temperature -78.0°. 19:48 - TWO to WL</p> <p>Wireline Plug/Perf : 19:48 Hrs- Prep to plug/guns for WL stage 10 of 44. 20:12 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 12 bpm @ 6,677 psi. (280 bbls FW) 21:32 hrs: Perf Wolfcamp "A" Stage #10 of 44 from 19,357' – 19,542' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco @ 22:45 Hrs.</p> <p>Equipment Repair : 22:45 Hrs- Bronco Services Grease 7 1/16" 15K Downing Frac stack per Cimarex Best. No issues found. TWO to HES Frac @ 23:30.</p> <p>Frac : 23:30 hrs - Prep to Frac Stage #10 of 44, 00:31 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #10 of 44 @ 19,357' - 19,542', via 7" 32# and 4 1/2" 13.5# casing, 446,435 gal of Slickwater, 0# Black Mountain 100 mesh, 234,220 Rangeland 100 mesh, 274,060# Hi-Crush 100 mesh, Tracer CFT/WT 1200 5 GAL ,eOFT 16450 250 g, ATR @ 70.0 bpm, ATP @ 9,133 psi. Max rate: 70.2 bpm, Max pressure: 9,531 psi. ISIP: 4,820 psi; 5 min: 4,471 psi. 508,280# Total Prop w/ Prop Con @ .50 – 2.16 ppa placed. Load to recover - 10,629 bbls. Annulus Pressure @ +/- 600 psi. Frac water is 100% fresh water, Water Temperature -73.0°. 03:06 - TWO to WL</p> <p>Wireline Plug/Perf : 19:48 Hrs- Prep to plug/guns for WL stage 11 of 44. 03:37 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 5,854 psi. (246 bbls FW) 04:52 hrs: Perf Wolfcamp "A" Stage #11 of 44 from 19,142' – 19,327' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. Pooh at Report Time.</p> <p>Note: Moved Plug 4' to avoid collar. Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 59°.  Wind Chill 59°.  Wind S 4 mph  Clear</p>
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Well History

<div><div><div><div>AFE : 2618002</div><div>Completion Rpt #19</div><div>5/14/2018</div></div><div><div>Daily Cost : \$9,503</div><div>Cum Cost : \$5,556,627</div></div></div></div>	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - POOH w/GE WL after Plug and Perf'd Stage #11 of 44 @ 19,142'-19,327', TWO to Frac at 06:05 Hrs.</p> <p>Frac : 06:05 hrs - Prep to Frac Stage #11 of 44, 06:50 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #11 of 44 @ 19,142' - 19,327', via 7" 32# and 4 1/2" 13.5# casing, 423,027 gal of Slickwater, 0# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 510,240# Hi-Crush 100 mesh, Tracer CFT/WT 1200 1 GAL ,eOFT 15190 250 g, ATR @ 70.1 bpm, ATP @ 9,242 psi. Max rate: 70.2 bpm, Max pressure: 9,530 psi. ISIP: 5,024 psi; 5 min: 4,968 psi. 510,240# Total Prop w/ Prop Con @ .50 – 2.13 placed. Load to recover - 10,072 bbls. Annulus Pressure @ +/- 507 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 09:36 - TWO to WL</p> <p>Wireline Plug/Perf : 09:40 Hrs- Prep to plug/guns for WL stage #11 of 44. 10:23 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 7,070 psi. (283 bbls FW) 11:33 Hrs - Set CFP @ 19,127', 11:35 hrs: Perf Wolfcamp "A" Stage #12 of 44 from 18,927' – 19,112' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 13:50 Hrs.</p> <p>Frac : 13:50 hrs - Prep to Frac Stage #12 of 44, 13:18 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #12 of 44 @ 18,927' - 19,112', via 7" 32# and 4 1/2" 13.5# casing, 410,192 gal of Slickwater, 0# Black Mountain 100 mesh, 518,120# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1200 5 GAL ,eOFT 15190 250 g, ATR @ 67.3 bpm, ATP @ 8,806 psi. Max rate: 70.4 bpm, Max pressure: 10,225 psi. ISIP: 4,828 psi; 5 min: 4,646 psi. 518,120# Total Prop w/ Prop Con @ .50 – 2.34 placed. Load to recover - 9,766 bbls. Annulus Pressure @ +/- 851 psi. Frac water is 100% fresh water, Water Temperature -76.0°. 16:10 - TWO to WL</p> <p>Wireline Plug/Perf : 16:10 Hrs- Prep to plug/guns for WL stage #13 of 44. 16:20 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 7,040 psi. (250 bbls FW) 17:32 Hrs - Set CFP @ 18,828', 17:35 hrs: Perf Wolfcamp "A" Stage #13 of 44 from 18,712' – 18,897' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco @ 18:55 Hrs.</p> <p>Equipment Repair : 18:55 Hrs- Bronco Services Grease and Torque 7 1/16" 10K Downing Frac stack and Check Bonnet Bolts per Cimarex Best. No issues found. TWO to HES Frac @ 19:45.</p> <p>Frac : 19:45 hrs - Prep to Frac Stage #13 of 44, 20:31 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #13 of 44 @ 18,712' - 18,897', via 7" 32# and 4 1/2" 13.5# casing, 420,981 gal of Slickwater, 235,220# Black Mountain 100 mesh, 277,680# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1300 5 GAL ,eOFT 15750 250g, ATR @ 70.0 bpm, ATP @ 9,517 psi. Max rate: 70.2 bpm, Max pressure: 10,464 psi. ISIP: 4,820 psi; 5 min: 4,462 psi. 512,900# Total Prop w/ Prop Con @ .50 – 1.98 placed. Load to recover - 10,023 bbls. Annulus Pressure @ +/- 1,060 psi. Frac water is 100% fresh water, Water Temperature -76.0°. 23:13. - TWO to WL</p> <p>Wireline Plug/Perf : 23:13 Hrs- Prep to plug/guns for WL stage #14 of 44. 23:35 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,665 psi. (225 bbls FW), 00:44 hrs: Set CFP @ 18,694', 00:48 hrs: Perf Wolfcamp "A" Stage #14 of 44 from 18,558' – 18,682' with 7 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. Ooh @ 02:15 hrs</p> <p>Note: Moved Plug to avoid Collar.</p> <p>Note : Confirm 3 Cluster did not fire only 7 clusters fired 26 Total holes</p> <p>Note: Check gun string found switches to be good, check ART found switch to be shorted.</p> <p>Circ/Displace : 02:15 Hrs - Prime up and Psi Test , Perform Injection Test:</p> <p>Max Pressure: 8389 psi</p> <p>Max Rate: 30 bpm</p> <p>Avg Pressure: 6694 psi</p> <p>Avg Rate: 14.4 bpm</p> <p>Fluid Pumped: 151 bbls</p> <p>Wireline Plug/Perf : 02:45 Hrs- Prep to plug/guns for WL stage #14 of 44. 03:32 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 sleeve, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,819 psi. (280 bbls FW) 04:30 hrs: Perf Wolfcamp "A" Stage #14 of 44 from 18,497' – 19,538' with 3 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 9. TWO to Frac @ 05:30 Hrs.</p> <p>Frac : 05:45 Hrs- Prep to Frac Stage #14 of 44 Wolfcamp "A" @ 18,497'-18,538' at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18</p>
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	<div>Spills= 1</div> <div>Incidents= 0</div> <div>Hot Work Permit= 0</div> <div>Stop Work Authority= 0</div> <div>Confined Space Entry = 0</div> <div>Note: HES poked hole in Def Fluid Tote (Spill 50 Gals)</div> <div>Weather : Current Weather Conditions as Follows:</div> <div>Temp 69°.</div> <div>Wind Chill 69°.</div> <div>Wind N 5 mph</div> <div>Partly Cloudy</div>
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Well History

**AFE : 2618002**  
**Completion Rpt #20**  
**5/15/2018**  
  
Daily Cost : \$9,503  
Cum Cost : \$5,566,129

Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes

Frac : 06:00 hrs - Prep to Frac Stage #14 of 44, 06:42 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #14 of 44 @ 18,497' - 18,682', via 7" 32# and 4 1/2" 13.5# casing, 449,489 gal of Slickwater, 236,320# Black Mountain 100 mesh, 287,640# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1300 5 GAL ,eOFT 15750 250g, ATR @ 70.2 bpm, ATP @ 9,185 psi. Max rate: 70.6 bpm, Max pressure: 9,755 psi. ISIP: 4,777 psi; 5 min: 4,434 psi. 523,960# Total Prop w/ Prop Con @ .50 – 2.31 placed. Load to recover - 10,702 bbls. Annulus Pressure @ +/- 575 psi. Frac water is 100% fresh water, Water Temperature -73.0°. 09:35. - TWO to WL

Wireline Plug/Perf : 09:35 Hrs- Prep to plug/guns for WL stage #15 of 44. 09:51 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 6,852 psi. (234 bbls FW) 11:05 Hrs - Set CFP @ 18,482', 11:07 hrs: Perf Wolfcamp "A" Stage #15 of 44 from 18,282' – 18,467' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 12:20 Hrs.

Frac : 12:20 hrs - Prep to Frac Stage #15 of 44, 13:06 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #15 of 44 @ 18,282' - 18,467', via 7" 32# and 4 1/2" 13.5# casing, , 447,853 gal of Slickwater, 237,400# Black Mountain 100 mesh, 283,060# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1300 5 GAL ,eOFT 15750 250g, ATR @ 70.2 bpm, ATP @ 9,215 psi. Max rate: 70.5 bpm, Max pressure: 10,411 psi. ISIP: 4,963 psi; 5 min: 4,673 psi. 520,460# Total Prop w/ Prop Con @ .50 – 2.33 placed. Load to recover - 10,663 bbls. Annulus Pressure @ +/- 725 psi. Frac water is 100% fresh water, Water Temperature -73.0°. 16:05. - TWO to WL

Wireline Plug/Perf : 16:05 Hrs- Prep to plug/guns for WL stage #16 of 44. 09:51 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 5,672 psi. (206 bbls FW) 17:56 Hrs - Set CFP @ 18,267', 18:00 hrs: Perf Wolfcamp "A" Stage #16 of 44 from 18,067' – 18,252' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco @ 19:00 Hrs.

Equipment Repair : 19:00 Hrs- Bronco Services Grease 7 1/16" 15K Downing Frac stack per Cimarex Best. No issues found. TWO to HES Frac @ 20:00.

Frac : 20:00 hrs - Prep to Frac Stage #16 of 44, 20:36 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #16 of 44 @ 18,067' - 18,252', via 7" 32# and 4 1/2" 13.5# casing, , 415,457 gal of Slickwater, 516,360# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1300 5 GAL ,eOFT 15750 250g, ATR @ 70.2 bpm, ATP @ 9,319 psi. Max rate: 70.8 bpm, Max pressure: 10,755 psi. ISIP: 4,285 psi; 5 min: 4,092 psi. 516,360# Total Prop w/ Prop Con @ .50 – 2.12 placed. Load to recover - 9,892 bbls. Annulus Pressure @ +/- 914 psi. Frac water is 100% fresh water, Water Temperature -85.0°. 23:13 hrs. - TWO to WL

Wireline Plug/Perf : 23:13 Hrs- Prep to plug/guns for WL stage #17 of 44. 23:37 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 5,543 psi. (188 bbls FW) 00:37 Hrs - Set CFP @ 18,052', 00:44 hrs: Perf Wolfcamp "A" Stage #17 of 44 from 17,852' – 18,037' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 02:00 Hrs.

Frac : 02:00 hrs - Prep to Frac Stage #17 of 44, 02:07 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #17 of 44 @ 17,852' - 18,037', via 7" 32# and 4 1/2" 13.5# casing, , 408,335 gal of Slickwater, 323,380# Black Mountain 100 mesh, 183,320# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1600 5 GAL ,eOFT 15050 250g, ATR @ 70.1 bpm, ATP @ 9,255 psi. Max rate: 70.4 bpm, Max pressure: 10,287 psi. ISIP: 4,914 psi; 5 min: 4,590 psi. 506,700# Total Prop w/ Prop Con @ .50 – 2.07 placed. Load to recover - 9,722 bbls. Annulus Pressure @ +/- 571 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 04:43 hrs. - TWO to WL

Wireline Plug/Perf : 04:43 Hrs- Prep to plug/guns for WL stage #18 of 44. 05:04 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pumping down at Report Time.

Operational Note : Production Facility 90% Completed,  
JSA's= 18  
Spills= 0  
Incidents= 0  
Hot Work Permit= 0  
Stop Work Authority= 0  
Confined Space Entry = 0

Weather : Current Weather Conditions as Follows:  
Temp 65°.   
Wind Chill 65°.   
Wind E 7 mph   
Clear





Well History

420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #21</b> <b>5/16/2018</b>		
Daily Cost :        \$44,537 Cum Cost :        \$5,611,927		
		Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes
		Wireline Plug/Perf : 06:00 Hrs - Continue to RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 6,439 psi. (225 bbls FW) 06:24 Hrs - Set CFP @ 17,837', 06:26 hrs: Perf Wolfcamp "A" Stage #18 of 44 from 17,637' – 17,822' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 07:40 Hrs.
		Frac : 07:40 hrs - Prep to Frac Stage #18 of 44, 08:01 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #18 of 44 @ 17,637' - 17,822', via 7" 32# and 4 1/2" 13.5# casing, , 408,760 gal of Slickwater, 0# Black Mountain 100 mesh, 517,220# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1600 5 GAL ,eOFT 15050 250g, ATR @ 70.1 bpm, ATP @ 8,935 psi. Max rate: 70.2 bpm, Max pressure: 10,319 psi. ISIP: 4,686 psi; 5 min: 4,278 psi. 517,220# Total Prop w/ Prop Con @ .50 – 2.34 placed. Load to recover - 9,732 bbls. Annulus Pressure @ +/- 425 psi. Frac water is 100% fresh water, Water Temperature -73.0°. 10:41 hrs. - TWO to WL
		Wireline Plug/Perf : 10:41 Hrs- Prep to plug/guns for WL stage #19 of 44. 11:07 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Bridge Plug, CBP (Part # 2854) 3-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 5,690 psi. (214 bbls FW) 12:12 Hrs - Set CBP @ 17,622', 12:15 hrs: Perf Wolfcamp "A" Stage #19 of 44 from 17,423' – 17,607' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco Services @ 13:20 Hrs.
		Equipment Repair : 13:20 Hrs - Bronco Grease and Torque 7-1/16 15K Frac Stack per Cimarex Best Practice, TWO to Frac @ 14:45 Hrs.
		Frac : 14:45 hrs - Prep to Frac Stage #19 of 44, 15:01 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #19 of 44 @ 17,423' - 17,607', via 7" 32# and 4 1/2" 13.5# casing, , 407,161 gal of Slickwater, 0# Black Mountain 100 mesh, 473,860# Rangeland 100 mesh, 46,700# Hi-Crush 100 mesh, Tracer CFT/IWT 1600 5 GAL ,eOFT 15050 250g, ATR @ 70.2 bpm, ATP @ 8,776 psi. Max rate: 70.3 bpm, Max pressure: 10,180 psi. ISIP: 4,598 psi; 5 min: 4,261 psi. 520,560# Total Prop w/ Prop Con @ .50 – 2.13 placed. Load to recover - 9,694 bbls. Annulus Pressure @ +/- 912 psi. Frac water is 100% fresh water, Water Temperature -84.0°. 17:43 hrs. - TWO to WL
		Wireline Plug/Perf : 17:43 Hrs- Prep to plug/guns for WL stage #20 of 44. 18:08 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000#Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 2854) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,075 psi. (228 bbls FW) 19:16 Hrs - Set CFP @ 17,408', 19:20 hrs: Perf Wolfcamp "A" Stage #20 of 44 from 17,208' – 17,393' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 20:30 Hrs.
		Frac : 20:30 hrs - Prep to Frac Stage #20 of 44, 21:23 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'd Wolfcamp "A" Stage #20 of 44 @ 17,208' - 17,393', via 7" 32# and 4 1/2" 13.5# casing, 438,559 gal of Slickwater, 0# Black Mountain 100 mesh, 514,520# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1600 5 GAL ,eOFT 15050 250g, ATR @ 70.2 bpm, ATP @ 8,919 psi. Max rate: 70.2 bpm, Max pressure: 10,208 psi. ISIP: 4,928 psi; 5 min: 4,417 psi. 514,520# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover - 10,442 bbls. Annulus Pressure @ +/- 728 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 23:53 hrs. - TWO to WL
		Wireline Plug/Perf : 23:53 Hrs- Prep to plug/guns for WL stage #21 of 44. 18:08 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 2854) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 11 bpm @ 6,140 psi. (196 bbls FW) 01:32 Hrs - Set CFP @ 17,193', 01:36 hrs: Perf Wolfcamp "A" Stage #21 of 44 from 16,993' – 17,178' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 03:00 Hrs.
		Frac : 03:00 hrs - Prep to Frac Stage #21 of 44, 03:15 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #21 of 44 @ 16,993' - 17,178', via 7" 32# and 4 1/2" 13.5# casing, 407,354 gal of Slickwater, 504,000# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1400 5 GAL ,eOFT 15070 250g, ATR @ 70.2 bpm, ATP @ 9,007 psi. Max rate: 70.3 bpm, Max pressure: 10,427 psi. ISIP: 4,751 psi; 5 min: 4,578 psi. 504,000# Total Prop w/ Prop Con @ .50 – 2.10 placed. Load to recover - 9,699 bbls. Annulus Pressure @ +/- 571 psi. Frac water is 100% fresh water, Water Temperature -70.0°. 05:50 hrs. - TWO to WL
		Wireline Plug/Perf : 05:50 Hrs- Prep to plug/guns for WL Stage # 22 of 44 Wolfcamp "A" @ 16,778'-16,963' at Report Time.
		Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0





420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #22</b> <b>5/17/2018</b>		
Daily Cost :        \$16,564 Cum Cost :        \$5,628,490		
		Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes Wireline Plug/Perf : 06:00 Hrs- Prep to plug/guns for WL stage #22 of 44. 06:31 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 10 bpm @ 6,800 psi. (166 bbls FW) 07:43 Hrs - Set CFP @ 16,978', 01:36 hrs: Perf Wolfcamp "A" Stage #22 of 44 from 16,778' – 16,963' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco Services @ 09:08 Hrs. Equipment Repair : 09:15 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack, TWO to Frac @ 09:55 hrs. Frac : 09:55 hrs - Prep to Frac Stage #22 of 44, 10:18 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #22 of 44 @ 16,778' - 16,963', via 7" 32# and 4 1/2" 13.5# casing, 438,218 gal of Slickwater, 513,460# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1400 5 GAL ,eOFT 15070 250g, ATR @ 70.3 bpm, ATP @ 8,831 psi. Max rate: 70.4 bpm, Max pressure: 10,487 psi. ISIP: 4,660 psi; 5 min: 4,477 psi. 513,460# Total Prop w/ Prop Con @ .50 – 2.31 placed. Load to recover - 10,434 bbls. Annulus Pressure @ +/- 794 psi. Frac water is 100% fresh water, Water Temperature -75.0°. 13:12 hrs. - TWO to WL Wireline Plug/Perf : 13:12 Hrs- Prep to plug/guns for WL stage #23 of 44. 13:40 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,821 psi. (162 bbls FW) 14:50 Hrs - Set CFP @ 16,763', 13:54 hrs: Perf Wolfcamp "A" Stage #23 of 44 from 16,563' – 16,748' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac 16:16 Hrs. Frac : 16:16 hrs - Prep to Frac Stage #23 of 44, 16:47 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #23 of 44 @ 16,563' - 16,748', via 7" 32# and 4 1/2" 13.5# casing, 399,345 gal of Slickwater, 230,380# Black Mountain 100 mesh, 276,900# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1400 5 GAL ,eOFT 15070 250g, ATR @ 70.1 bpm, ATP @ 9,224 psi. Max rate: 70.4 bpm, Max pressure: 10,490 psi. ISIP: 4,598 psi; 5 min: 4,414 psi. 507,280# Total Prop w/ Prop Con @ .50 – 2.17 placed. Load to recover - 9,508 bbls. Annulus Pressure @ +/- 431 psi. Frac water is 100% fresh water, Water Temperature -84.7°. 19:17 hrs. - TWO to WL Wireline Plug/Perf : 19:17 Hrs- Prep to plug/guns for WL stage #24 of 44. 19:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Ball in Place CFP (Part # 3829) 4-18-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump10 bpm @ 6,483 psi. (151 bbls FW) 20:45 Hrs - Set CFP @ 16,542', 20:49 hrs: Perf Wolfcamp "A" Stage #24 of 44 from 16,348' – 16,533' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac 22:00 Hrs.  Note: Moved Plug 6' to avoid Collar. Frac : 22:00 hrs - Prep to Frac Stage #24 of 44, 22:20 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #24 of 44 @ 16,348' - 16,533', via 7" 32# and 4 1/2" 13.5# casing, 416,645 gal of Slickwater, 508,440# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1400 5 GAL ,eOFT 15070 250g, ATR @ 70.0 bpm, ATP @ 9,435 psi. Max rate: 70.2 bpm, Max pressure: 10,311 psi. ISIP: 4,540 psi; 5 min: 4,469 psi. 508,440# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover - 9,920 bbls. Annulus Pressure @ +/- 822 psi. Frac water is 100% fresh water, Water Temperature -78.0°. 01:00 hrs. - TWO to WL Wireline Plug/Perf : 01:00 Hrs- Prep to plug/guns for WL stage #25 of 44. 01:19 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" Bridge Plug CBP (Part # 2854) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 5,108 psi. (132 bbls FW) 02:26 Hrs - Set CFP @ 16,333', 02:31 hrs: Perf Wolfcamp "A" Stage #25 of 44 from 16,133' – 16,318' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco Services 03:45 Hrs.  . Equipment Repair : 03:45 Hrs - Bronco Services Grease and Torque 7-1/16 15K Frac Stack, TWO to Frac @ 05:20 hrs. Frac : 05:20 hrs - Prep to Frac Stage #25 of 44, 05:40 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #25 of 44 @ 16,133' - 16,318', via 7" 32# and 4 1/2" 13.5# casing at Report Time. Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0



Well History

420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #23</b> <b>5/18/2018</b>  Daily Cost :        \$27,353 Cum Cost :        \$5,655,843	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Frac'g Wolfcamp "A" Stage #25 of 44 @ 16,133' - 16,318', via 7" 32# and 4 1/2" 13.5# casing, 468,862 gal of Slickwater, 0# Black Mountain 100 mesh, 190,520# Rangeland 100 mesh, 314,780# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 69.0 bpm, ATP @ 9,384 psi. Max rate: 70.1 bpm, Max pressure: 10,519 psi. ISIP: 4,207 psi; 5 min: 4,060 psi. 503,300# Total Prop w/ Prop Con @ .50 – 2.12 placed. Load to recover - 11,163 bbls. Annulus Pressure @ +/- 534 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 08:56 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 08:56 Hrs- Prep to plug/guns for WL stage #26 of 44. 09:24 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,200 psi. (123 bbls FW) 10:38 Hrs - Set CFP @ 16,118', Tested Plug to 6,200 psi. 10:41 hrs: Perf Wolfcamp "A" Stage #26 of 44 from 15,918' – 16,103' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac 11:50 Hrs.</p> <p>Frac : 11:50 hrs - Prep to Frac Stage #26 of 44, 12:25 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #26 of 44 @ 15,918' - 16,103', via 7" 32# and 4 1/2" 13.5# casing, 377,896 gal of Slickwater, 232,020# Black Mountain 100 mesh, 232,900# Rangeland 100 mesh, 45,500# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 70.0 bpm, ATP @ 8,404 psi. Max rate: 70.4 bpm, Max pressure: 10,589 psi. ISIP: 4,182 psi; 5 min: 4,160 psi. 510,420# Total Prop w/ Prop Con @ .50 – 2.11 placed. Load to recover - 8,998 bbls. Annulus Pressure @ +/- 655 psi. Frac water is 100% fresh water, Water Temperature -80.2°. 15:00 hrs. - TWO to WL</p> <p>Weather : 15:00 Hrs - Down due to high winds</p> <p>Wireline Plug/Perf : 16:15 Hrs- Prep to plug/guns for WL stage #27 of 44. 16:26 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 6,200 psi. (149 bbls FW) 17:30 Hrs - Set CFP @ 15,903', Tested Plug to 6,200 psi. 17:35 hrs: Perf Wolfcamp "A" Stage #27 of 44 from 15,703' – 15,888' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac 19:00 Hrs.</p> <p>Frac : 19:00 hrs - Prep to Frac Stage #27 of 44, 19:20 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #27 of 44 @ 15,703' - 15,888', via 7" 32# and 4 1/2" 13.5# casing, 412,037 gal of Slickwater, 0# Black Mountain 100 mesh, 500,140# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 70.3 bpm, ATP @ 8,647 psi. Max rate: 71.4 bpm, Max pressure: 10,149 psi. ISIP: 4,697 psi; 5 min: 4,443 psi. 500,140# Total Prop w/ Prop Con @ .50 – 2.20 placed. Load to recover - 9,810 bbls. Annulus Pressure @ +/- 835 psi. Frac water is 100% fresh water, Water Temperature -87.0°. 22:00 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 22:00 Hrs- Prep to plug/guns for WL stage #28 of 44. 22:23 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,531 psi. (117 bbls FW) 23:19 Hrs - Set CFP @ 15,688', Tested Plug to 6,700 psi. 23:24 hrs: Perf Wolfcamp "A" Stage #28 of 44 from 15,488' –15,673' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco Services @ 00:20 Hrs.</p> <p>Equipment Repair : 00:20 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack, TWO to Frac @ 01:05 hrs.</p> <p>Frac : 01:05 hrs - Prep to Frac Stage #28 of 44, 01:23 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #28 of 44 @ 15,488' - 15,673', via 7" 32# and 4 1/2" 13.5# casing, 420,113 gal of Slickwater, 511,040# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 70.3 bpm, ATP @ 8,181 psi. Max rate: 72.6 bpm, Max pressure: 10,050 psi. ISIP: 4,288 psi; 5 min: 4,369 psi. 511,040# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover - 10,003 bbls. Annulus Pressure @ +/- 423 psi. Frac water is 100% fresh water, Water Temperature -75.0°. 04:00 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 04:00 Hrs- Prep to plug/guns for WL stage #29 of 44. 04:18 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,505 psi. (110 bbls FW) 05:24 Hrs - Set CFP @ 15,473', Tested Plug to 6,300 psi. 05:28 hrs: Perf Wolfcamp "A" Stage #29 of 44 from 15,274' –15,458' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. Pooh at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p>	



## Well History

**AFE : 2618002**  
**Completion Rpt #24**  
**5/19/2018**

Daily Cost : \$78,992  
Cum Cost : \$5,736,088

TWO to Frac 06:40 Hrs  
Frac : 06:40 hrs - Prep to Frac Stage #29 of 44, 06:55 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #29 of 44 @ 15,274' - 15,458', via 7" 32# and 4 1/2" 13.5# casing, 432,585 gal of Slickwater, 324,008# Black Mountain 100 mesh, 187,160# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 69.9 bpm, ATP @ 8,236 psi. Max rate: 69.9 bpm, Max pressure: 10,457 psi. ISIP: 4,701 psi; 5 min: 4,500 psi. 511,240# Total Prop w/ Prop Con @ .50 - 2.09 placed. Load to recover - 10,300 bbls. Annulus Pressure @ +/- 273 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 09:41 hrs. - TWO to WL

Wireline Plug/Perf : 09:41 Hrs- Prep to plug/guns for WL stage #30 of 44. 09:55 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CBP Plug (Part # 2854) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,696 psi. (90 bbls FW) 11:08 Hrs - Set CBP @ 15,259', Tested Plug to 6,700 psi. 11:10 hrs: Perf Wolfcamp "A" Stage #30 of 44 from 15,059' -15,244' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 12:15 Hrs.

Frac : 12:15 hrs - Prep to Frac Stage #30 of 44, 12:53 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #30 of 44 @ 15,059' - 15,244', via 7" 32# and 4 1/2" 13.5# casing, 412,945 gal of Slickwater, 368,060# Black Mountain 100 mesh, 187,900# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 69.7 bpm, ATP @ 8,167 psi. Max rate: 70.1 bpm, Max pressure: 10,565 psi. ISIP: 4,514 psi; 5 min: 4,536 psi. 505,960# Total Prop w/ Prop Con @ .50 - 2.09 placed. Load to recover - 9,832 bbls. Annulus Pressure @ +/- 622 psi. Frac water is 100% fresh water, Water Temperature -76.2°. 15:30 hrs. - TWO to WL

Wireline Plug/Perf : 15:30 Hrs- Prep to plug/guns for WL stage #31 of 44. 15:45 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,518 psi. (93 bbls FW) 16:50 Hrs - Set CFP @ 15,044', Tested Plug to 6,500 psi. 16:52 hrs: Perf Wolfcamp "A" Stage #31 of 44 from 14,844' -15,029' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 18:00 Hrs.

Equipment Repair : 18:00 Hrs - Bronco Services Grease and Torque 7-1/16 15K Frac Stack, TWO to Frac @ 19:00 hrs.

Frac : 19:00 hrs - Prep to Frac Stage #31 of 44, 19:12 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #31 of 44 @ 14,844' - 15,029', via 7" 32# and 4 1/2" 13.5# casing, 392,163 gal of Slickwater, 0# Black Mountain 100 mesh, 513,620# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 70.3 bpm, ATP @ 8,161 psi. Max rate: 70.4 bpm, Max pressure: 9,721 psi. ISIP: 4,637 psi; 5 min: 4,216 psi. 513,620# Total Prop w/ Prop Con @ .50 - 2.07 placed. Load to recover - 9,337 bbls. Annulus Pressure @ +/- 790 psi. Frac water is 100% fresh water, Water Temperature -78.0°. 21:48 hrs. - TWO to WL

Wireline Plug/Perf : 21:48 Hrs- Prep to plug/guns for WL stage #32 of 44. 15:45 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,850 psi. (102 bbls FW) 23:02 Hrs - Set CFP @ 14,823', Tested Plug to 6,700 psi. 23:09 hrs: Perf Wolfcamp "A" Stage #32 of 44 from 14,629' -14,814' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 00:18 Hrs.

Frac : 00:18 hrs - Prep to Frac Stage #32 of 44, 00:38 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #32 of 44 @ 14,629' - 14,814', via 7" 32# and 4 1/2" 13.5# casing, 421,051 gal of Slickwater, 517,990# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 70.3 bpm, ATP @ 8,205 psi. Max rate: 70.9 bpm, Max pressure: 9,936 psi. ISIP: 4,267 psi; 5 min: 4,092 psi. 517,990# Total Prop w/ Prop Con @ .50 - 2.20 placed. Load to recover - 10,025 bbls. Annulus Pressure @ +/- 423 psi. Frac water is 100% fresh water, Water Temperature -74.0°. 03:15 hrs. - TWO to WL

Wireline Plug/Perf : 03:15 Hrs- Prep to plug/guns for WL stage #33 of 44. 03:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,859 psi. (86 bbls FW) 04:30 Hrs - Set CFP @ 14,614', Tested Plug to 6,300 psi. 04:34 hrs: Perf Wolfcamp "A" Stage #33 of 44 from 14,414' -14,599' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 05:35 Hrs.

Frac : 05:35 hrs - Prep to Frac Stage #33 of 44, Wolfcamp "A" @ 14,414' - 14,599', at Report Time.

Operational Note : Production Facility 90% Completed,  
JSA's= 18  
Spills= 0  
Incidents= 0  
Hot Work Permit= 0  
Stop Work Authority= 0  
Confined Space Entry = 0

Weather : Current Weather Conditions as Follows:  
Temp 61°.   
Wind Chill 61°.   
Wind W 4 mph



420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #25</b> <b>5/20/2018</b>  Daily Cost :        \$10,658 Cum Cost :        \$5,746,746		<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Prep to Frac Stage #33 of 44, 06:14 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #33 of 44 @ 14,414' - 14,599', via 7" 32# and 4 1/2" 13.5# casing, 409,099 gal of Slickwater, 0# Black Mountain 100 mesh, 501,180# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 1640 250g, ATR @ 70.2bpm, ATP @ 8,312i. Max rate: 70.5bpm, Max pressure: 10,413 psi. ISIP: 4,825 psi; 5 min: 4,361 psi. 501,180# Total Prop w/ Prop Con @ .50 – 2.10 placed. Load to recover - 9,740 bbls. Annulus Pressure @ +/- 227 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 08:50 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 08:50 Hrs- Prep to plug/guns for WL stage #34 of 44. 09:15 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,289 psi. (75 bbls FW) 10:15 Hrs - Set CFP @ 14,399', Tested Plug to 7,000 psi. 10:18 hrs: Perf Wolfcamp "A" Stage #34 of 44 from 14,199' –14,384' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 11:30 Hrs.</p> <p>Equipment Repair : 11:30 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack TWO to Frac @ 12:10 Hrs.</p> <p>Frac : 12:10 hrs - Prep to Frac Stage #34 of 44, 12:40 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #34 of 44 @ 14,199' - 14,384', via 7" 32# and 4 1/2" 13.5# casing, 492,657 gal of Slickwater, 422,510 # Black Mountain 100 mesh, 91,500# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 16400 250g, ATR @ 70.4bpm, ATP @ 8,393. Max rate: 70.6 bpm, Max pressure: 10,399 psi. ISIP: 4,665 psi; 5 min: 3,886 psi. 514,010# Total Prop w/ Prop Con @ .50 – 2.19 placed. Load to recover -11,730 bbls. Annulus Pressure @ +/- 606 psi. Frac water is 100% fresh water, Water Temperature -73.4°. 22:34 hrs. - TWO to WL</p> <p>Note: Generator down on Data Van 6.5 Hrs</p> <p>Wireline Plug/Perf : 22:34 Hrs- Prep to plug/guns for WL stage #35 of 44. 22:56 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 5,547 psi. (74 bbls FW) 23:52 Hrs - Set CFP @ 14,184', Tested Plug to 6,700 psi. 23:56 hrs: Perf Wolfcamp "A" Stage #35 of 44 from 13,984' –14,169' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 01:00 Hrs.</p> <p>Frac : 01:00 hrs - Prep to Frac Stage #35 of 44, 01:03 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #35 of 44 @ 13,984' - 14,169', via 7" 32# and 4 1/2" 13.5# casing, 430,832 gal of Slickwater, 364,550 # Black Mountain 100 mesh,136,120# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 16400 250g, ATR @ 70.3 bpm, ATP @ 8,014 Max rate: 70.8 bpm, Max pressure: 8,938 psi. ISIP: 4,435 psi; 5 min: 4,163 psi. 500,670# Total Prop w/ Prop Con @ .50 – 2.10 placed. Load to recover -10,258 bbls. Annulus Pressure @ +/- 455 psi. Frac water is 100% fresh water, Water Temperature -75.0°. 03:53 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 03:53 Hrs- Prep to plug/guns for WL stage #36 of 44. 04:23 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,490 psi. (77 bbls FW) 05:22 Hrs - Set CFP @ 13,969', Tested Plug to 6,500 psi. 05:26 hrs: Perf Wolfcamp "A" Stage #36 of 44 from 13,769' –13,954' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. Pooh @ Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 71°.  Wind Chill 71°.  Wind E 10 mph  Clear</p>
		<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue POOH w/GE WL After plug and perf'd Stage # 29 of 44,</p>





420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #26</b> <b>5/21/2018</b>  Daily Cost :        \$10,658 Cum Cost :        \$5,757,403	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue POOH w/GE WL after Perf'd Stage # 36 of 44 @ 13,769'-13,954', TWO to Frac @ 06:35</p> <p>Frac : 06:35 hrs - Prep to Frac Stage #36 of 44, 06:56 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #36 of 44 @ 13,769' - 13,954', via 7" 32# and 4 1/2" 13.5# casing, 401,602 gal of Slickwater, 232,020 # Black Mountain 100 mesh,273,280# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 16400 250g, ATR @ 70.1 bpm, ATP @ 8,146 Max rate: 70.7 bpm, Max pressure: 10,453 psi. ISIP: 4,4414 psi; 5 min: 4,277 psi. 505,300# Total Prop w/ Prop Con @ .50 – 2.08 placed. Load to recover -9,562 bbls. Annulus Pressure @ +/- 216 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 09:35 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 09:35 Hrs- Prep to plug/guns for WL stage #37 of 44. 09:50 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,435 psi. (68 bbls FW) 10:47 Hrs - Set CFP @ 13,754', Tested Plug to 6,400 psi. 10:50 hrs: Perf Wolfcamp "A" Stage #37 of 44 from 13,554' –13,739' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 11:50 Hrs.</p> <p>Equipment Repair : 11:50 Hrs - Bronco Services Grease &amp; Torque 7-1/16 15K Frac Stack, TWO to Frac @ 11:50</p> <p>Waiting-Orders/Equip : 12:50 Hrs - Down Due to Frac Van, swapped out HES Frac data van</p> <p>Frac : 17:30 hrs - Prep to Frac Stage #37 of 44, 21:20 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #37 of 44 @ 13,554' - 13,739', via 7" 32# and 4 1/2" 13.5# casing, 410,814 gal of Slickwater, 370,840 # Black Mountain 100 mesh, 138,080# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 70.0 bpm, ATP @ 7,849 Max rate: 70.8 bpm, Max pressure: 9,835 psi. ISIP: 4,113 psi; 5 min: 3,780 psi. 508,920# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover -9,781 bbls. Annulus Pressure @ +/- 466 psi. Frac water is 100% fresh water, Water Temperature -76.4°. 21:20 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 21:20 Hrs- Prep to plug/guns for WL stage #38 of 44. 21:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,250 psi. (62 bbls FW) 22:40 Hrs - Set CFP @ 13,539', Tested Plug to 6,200 psi. 22:44 hrs: Perf Wolfcamp "A" Stage #38 of 44 from 13,339' –13,524' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 23:45 Hrs.</p> <p>Frac : 23:40 hrs - Prep to Frac Stage #38 of 44, 23:47 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #38 of 44 @ 13,339' - 13,524', via 7" 32# and 4 1/2" 13.5# casing, 424,188 gal of Slickwater, 0 # Black Mountain 100 mesh, 502,000# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 70.3 bpm, ATP @ 7,488 Max rate: 70.4 bpm, Max pressure: 9,875 psi. ISIP: 4,295 psi; 5 min: 3,664 psi. 502,000# Total Prop w/ Prop Con @ .50 – 2.08 placed. Load to recover -10,100 bbls. Annulus Pressure @ +/- 179 psi. Frac water is 100% fresh water, Water Temperature -76.0°. 02:23 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 02:23 Hrs- Prep to plug/guns for WL stage #39 of 44. 21:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,112 psi. (52 bbls FW) 03:54 Hrs - Set CFP @ 13,324', Tested Plug to 6,300 psi. 03:58 hrs: Perf Wolfcamp "A" Stage #39 of 44 from 13,125' –13,309' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 05:00 Hrs.</p> <p>Frac : 05:00 hrs - Prep to Frac Stage #39 of 44, 05:10 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #39 of 44 @ 13,125' - 13,309', via 7" 32# and 4 1/2" 13.5# casing at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p>  <p>Weather : Current Weather Conditions as Follows: Temp 68°. Wind Chill 68°. Wind E 9 mph Partly Cloudy</p>	



	Clear
<b>AFE : 2618002</b> <b>Completion Rpt #23</b> <b>5/18/2018</b>  Daily Cost :       \$27,353 Cum Cost :       \$5,657,097	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Frac'g Wolfcamp "A" Stage #25 of 44 @ 16,133' - 16,318', via 7" 32# and 4 1/2" 13.5# casing, 468,862 gal of Slickwater, 0# Black Mountain 100 mesh, 190,520# Rangeland 100 mesh, 314,780# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 69.0 bpm, ATP @ 9,384 psi. Max rate: 70.1 bpm, Max pressure: 10,519 psi. ISIP: 4,207 psi; 5 min: 4,060 psi. 503,300# Total Prop w/ Prop Con @ .50 – 2.12 placed. Load to recover - 11,163 bbls. Annulus Pressure @ +/- 534 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 08:56 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 08:56 Hrs- Prep to plug/guns for WL stage #26 of 44. 09:24 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,200 psi. (123 bbls FW) 10:38 Hrs - Set CFP @ 16,118', Tested Plug to 6,200 psi. 10:41 hrs: Perf Wolfcamp "A" Stage #26 of 44 from 15,918' – 16,103' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac 11:50 Hrs.</p> <p>Frac : 11:50 hrs - Prep to Frac Stage #26 of 44, 12:25 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #26 of 44 @ 15,918' - 16,103', via 7" 32# and 4 1/2" 13.5# casing, 377,896 gal of Slickwater, 232,020# Black Mountain 100 mesh, 232,900# Rangeland 100 mesh, 45,500# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 70.0 bpm, ATP @ 8,404 psi. Max rate: 70.4 bpm, Max pressure: 10,589 psi. ISIP: 4,182 psi; 5 min: 4,160 psi. 510,420# Total Prop w/ Prop Con @ .50 – 2.11 placed. Load to recover - 8,998 bbls. Annulus Pressure @ +/- 655 psi. Frac water is 100% fresh water, Water Temperature -80.2°. 15:00 hrs. - TWO to WL</p> <p>Weather : 15:00 Hrs - Down due to high winds</p> <p>Wireline Plug/Perf : 16:15 Hrs- Prep to plug/guns for WL stage #27 of 44. 16:26 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 6,200 psi. (149 bbls FW) 17:30 Hrs - Set CFP @ 15,903', Tested Plug to 6,200 psi. 17:35 hrs: Perf Wolfcamp "A" Stage #27 of 44 from 15,703' – 15,888' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac 19:00 Hrs.</p> <p>Frac : 19:00 hrs - Prep to Frac Stage #27 of 44, 19:20 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #27 of 44 @ 15,703' - 15,888', via 7" 32# and 4 1/2" 13.5# casing, 412,037 gal of Slickwater, 0# Black Mountain 100 mesh, 500,140# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 70.3 bpm, ATP @ 8,647 psi. Max rate: 71.4 bpm, Max pressure: 10,149 psi. ISIP: 4,697 psi; 5 min: 4,443 psi. 500,140# Total Prop w/ Prop Con @ .50 – 2.20 placed. Load to recover - 9,810 bbls. Annulus Pressure @ +/- 835 psi. Frac water is 100% fresh water, Water Temperature -87.0°. 22:00 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 22:00 Hrs- Prep to plug/guns for WL stage #28 of 44. 22:23 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,531 psi. (117 bbls FW) 23:19 Hrs - Set CFP @ 15,688', Tested Plug to 6,700 psi. 23:24 hrs: Perf Wolfcamp "A" Stage #28 of 44 from 15,488' –15,673' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco Services @ 00:20 Hrs.</p> <p>Equipment Repair : 00:20 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack, TWO to Frac @ 01:05 hrs.</p> <p>Frac : 01:05 hrs - Prep to Frac Stage #28 of 44, 01:23 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #28 of 44 @ 15,488' - 15,673', via 7" 32# and 4 1/2" 13.5# casing, 420,113 gal of Slickwater, 511,040# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1500 5 GAL ,eOFT 15110 250g, ATR @ 70.3 bpm, ATP @ 8,181 psi. Max rate: 72.6 bpm, Max pressure: 10,050 psi. ISIP: 4,288 psi; 5 min: 4,369 psi. 511,040# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover - 10,003 bbls. Annulus Pressure @ +/- 423 psi. Frac water is 100% fresh water, Water Temperature -75.0°. 04:00 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 04:00 Hrs- Prep to plug/guns for WL stage #29 of 44. 04:18 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,505 psi. (110 bbls FW) 05:24 Hrs - Set CFP @ 15,473', Tested Plug to 6,300 psi. 05:28 hrs: Perf Wolfcamp "A" Stage #29 of 44 from 15,274' –15,458' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. Pooh at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 61°.  Wind Chill 61°.</p>



Well History

<b>AFE : 2618002</b> <b>Completion Rpt #24</b> <b>5/19/2018</b>  Daily Cost :       \$78,992 Cum Cost :        \$5,736,088	<p>TWO to Frac 06:40 Hrs</p> <p>Frac : 06:40 hrs - Prep to Frac Stage #29 of 44, 06:55 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #29 of 44 @ 15,274' - 15,458', via 7" 32# and 4 1/2" 13.5# casing, 432,585 gal of Slickwater, 324,008# Black Mountain 100 mesh, 187,160# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 69.9 bpm, ATP @ 8,236 psi. Max rate: 69.9 bpm, Max pressure: 10,457 psi. ISIP: 4,701 psi; 5 min: 4,500 psi. 511,240# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover - 10,300 bbls. Annulus Pressure @ +/- 273 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 09:41 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 09:41 Hrs- Prep to plug/guns for WL stage #30 of 44. 09:55 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CBP Plug (Part # 2854) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,696 psi. (90 bbls FW) 11:08 Hrs - Set CBP @ 15,259', Tested Plug to 6,700 psi. 11:10 hrs: Perf Wolfcamp "A" Stage #30 of 44 from 15,059' –15,244' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 12:15 Hrs.</p> <p>Frac : 12:15 hrs - Prep to Frac Stage #30 of 44, 12:53 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #30 of 44 @ 15,059' - 15,244', via 7" 32# and 4 1/2" 13.5# casing, 412,945 gal of Slickwater, 368,060# Black Mountain 100 mesh, 187,900# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 69.7 bpm, ATP @ 8,167 psi. Max rate: 70.1 bpm, Max pressure: 10,565 psi. ISIP: 4,514 psi; 5 min: 4,536 psi. 505,960# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover - 9,832 bbls. Annulus Pressure @ +/- 622 psi. Frac water is 100% fresh water, Water Temperature -76.2°. 15:30 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 15:30 Hrs- Prep to plug/guns for WL stage #31 of 44. 15:45 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/standard power charge, BossHog 3.50" CFP Plug (Part # 3829) 3-19-18, Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,518 psi. (93 bbls FW) 16:50 Hrs - Set CFP @ 15,044', Tested Plug to 6,500 psi. 16:52 hrs: Perf Wolfcamp "A" Stage #31 of 44 from 14,844' –15,029' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 18:00 Hrs.</p> <p>Equipment Repair : 18:00 Hrs - Bronco Services Grease and Torque 7-1/16 15K Frac Stack, TWO to Frac @ 19:00 hrs.</p> <p>Frac : 19:00 hrs - Prep to Frac Stage #31 of 44, 19:12 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #31 of 44 @ 14,844' - 15,029', via 7" 32# and 4 1/2" 13.5# casing, 392,163 gal of Slickwater, 0# Black Mountain 100 mesh, 513,620# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 70.3 bpm, ATP @ 8,161 psi. Max rate: 70.4 bpm, Max pressure: 9,721 psi. ISIP: 4,637 psi; 5 min: 4,216 psi. 513,620# Total Prop w/ Prop Con @ .50 – 2.07 placed. Load to recover - 9,337 bbls. Annulus Pressure @ +/- 790 psi. Frac water is 100% fresh water, Water Temperature -78.0°. 21:48 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 21:48 Hrs- Prep to plug/guns for WL stage #32 of 44. 15:45 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,850 psi. (102 bbls FW) 23:02 Hrs - Set CFP @ 14,823', Tested Plug to 6,700 psi. 23:09 hrs: Perf Wolfcamp "A" Stage #32 of 44 from 14,629' –14,814' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 00:18 Hrs.</p> <p>Frac : 00:18 hrs - Prep to Frac Stage #32 of 44, 00:38 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #32 of 44 @ 14,629' - 14,814', via 7" 32# and 4 1/2" 13.5# casing, 421,051 gal of Slickwater, 517,990# Black Mountain 100 mesh, 0# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1700 5 GAL ,eOFT 15850 250g, ATR @ 70.3 bpm, ATP @ 8,205 psi. Max rate: 70.9 bpm, Max pressure: 9,936 psi. ISIP: 4,267 psi; 5 min: 4,092 psi. 517,990# Total Prop w/ Prop Con @ .50 – 2.20 placed. Load to recover - 10,025 bbls. Annulus Pressure @ +/- 423 psi. Frac water is 100% fresh water, Water Temperature -74.0°. 03:15 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 03:15 Hrs- Prep to plug/guns for WL stage #33 of 44. 03:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 4,859 psi. (86 bbls FW) 04:30 Hrs - Set CFP @ 14,614', Tested Plug to 6,300 psi. 04:34 hrs: Perf Wolfcamp "A" Stage #33 of 44 from 14,414' –14,599' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 05:35 Hrs.</p> <p>Frac : 05:35 hrs - Prep to Frac Stage #33 of 44, Wolfcamp "A" @ 14,414' - 14,599', at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 61°.  Wind Chill 61°.  Wind W 4 mph</p>
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420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #25</b> <b>5/20/2018</b>  Daily Cost :        \$10,658 Cum Cost :        \$5,746,746	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Prep to Frac Stage #33 of 44, 06:14 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #33 of 44 @ 14,414' - 14,599', via 7" 32# and 4 1/2" 13.5# casing, 409,099 gal of Slickwater, 0# Black Mountain 100 mesh, 501,180# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 1640 250g, ATR @ 70.2bpm, ATP @ 8,312i. Max rate: 70.5bpm, Max pressure: 10,413 psi. ISIP: 4,825 psi; 5 min: 4,361 psi. 501,180# Total Prop w/ Prop Con @ .50 – 2.10 placed. Load to recover - 9,740 bbls. Annulus Pressure @ +/- 227 psi. Frac water is 100% fresh water, Water Temperature -71.0°. 08:50 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 08:50 Hrs- Prep to plug/guns for WL stage #34 of 44. 09:15 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,289 psi. (75 bbls FW) 10:15 Hrs - Set CFP @ 14,399', Tested Plug to 7,000 psi. 10:18 hrs: Perf Wolfcamp "A" Stage #34 of 44 from 14,199' –14,384' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 11:30 Hrs.</p> <p>Equipment Repair : 11:30 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack TWO to Frac @ 12:10 Hrs.</p> <p>Frac : 12:10 hrs - Prep to Frac Stage #34 of 44, 12:40 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #34 of 44 @ 14,199' - 14,384', via 7" 32# and 4 1/2" 13.5# casing, 492,657 gal of Slickwater, 422,510 # Black Mountain 100 mesh, 91,500# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 16400 250g, ATR @ 70.4bpm, ATP @ 8,393. Max rate: 70.6 bpm, Max pressure: 10,399 psi. ISIP: 4,665 psi; 5 min: 3,886 psi. 514,010# Total Prop w/ Prop Con @ .50 – 2.19 placed. Load to recover -11,730 bbls. Annulus Pressure @ +/- 606 psi. Frac water is 100% fresh water, Water Temperature -73.4°. 22:34 hrs. - TWO to WL</p> <p>Note: Generator down on Data Van 6.5 Hrs</p> <p>Wireline Plug/Perf : 22:34 Hrs- Prep to plug/guns for WL stage #35 of 44. 22:56 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 9 bpm @ 5,547 psi. (74 bbls FW) 23:52 Hrs - Set CFP @ 14,184', Tested Plug to 6,700 psi. 23:56 hrs: Perf Wolfcamp "A" Stage #35 of 44 from 13,984' –14,169' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 01:00 Hrs.</p> <p>Frac : 01:00 hrs - Prep to Frac Stage #35 of 44, 01:03 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #35 of 44 @ 13,984' - 14,169', via 7" 32# and 4 1/2" 13.5# casing, 430,832 gal of Slickwater, 364,550 # Black Mountain 100 mesh,136,120# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 16400 250g, ATR @ 70.3 bpm, ATP @ 8,014 Max rate: 70.8 bpm, Max pressure: 8,938 psi. ISIP: 4,435 psi; 5 min: 4,163 psi. 500,670# Total Prop w/ Prop Con @ .50 – 2.10 placed. Load to recover -10,258 bbls. Annulus Pressure @ +/- 455 psi. Frac water is 100% fresh water, Water Temperature -75.0°. 03:53 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 03:53 Hrs- Prep to plug/guns for WL stage #36 of 44. 04:23 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,490 psi. (77 bbls FW) 05:22 Hrs - Set CFP @ 13,969', Tested Plug to 6,500 psi. 05:26 hrs: Perf Wolfcamp "A" Stage #36 of 44 from 13,769' –13,954' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. Pooh @ Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 71°.  Wind Chill 71°.  Wind E 10 mph  Clear</p>	
	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue POOH w/GE WL After plug and perf'd Stage # 29 of 44,</p>	





420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #26</b> <b>5/21/2018</b>  Daily Cost :        \$10,658 Cum Cost :        \$5,757,403	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Wireline Plug/Perf : 06:00 Hrs - Continue POOH w/GE WL after Perf'd Stage # 36 of 44 @ 13,769'-13,954', TWO to Frac @ 06:35</p> <p>Frac : 06:35 hrs - Prep to Frac Stage #36 of 44, 06:56 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #36 of 44 @ 13,769' - 13,954', via 7" 32# and 4 1/2" 13.5# casing, 401,602 gal of Slickwater, 232,020 # Black Mountain 100 mesh,273,280# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 1900 5 GAL ,eOFT 16400 250g, ATR @ 70.1 bpm, ATP @ 8,146 Max rate: 70.7 bpm, Max pressure: 10,453 psi. ISIP: 4,4414 psi; 5 min: 4,277 psi. 505,300# Total Prop w/ Prop Con @ .50 – 2.08 placed. Load to recover -9,562 bbls. Annulus Pressure @ +/- 216 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 09:35 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 09:35 Hrs- Prep to plug/guns for WL stage #37 of 44. 09:50 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,435 psi. (68 bbls FW) 10:47 Hrs - Set CFP @ 13,754', Tested Plug to 6,400 psi. 10:50 hrs: Perf Wolfcamp "A" Stage #37 of 44 from 13,554' –13,739' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 11:50 Hrs.</p> <p>Equipment Repair : 11:50 Hrs - Bronco Services Grease &amp; Torque 7-1/16 15K Frac Stack, TWO to Frac @ 11:50</p> <p>Waiting-Orders/Equip : 12:50 Hrs - Down Due to Frac Van, swapped out HES Frac data van</p> <p>Frac : 17:30 hrs - Prep to Frac Stage #37 of 44, 21:20 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #37 of 44 @ 13,554' - 13,739', via 7" 32# and 4 1/2" 13.5# casing, 410,814 gal of Slickwater, 370,840 # Black Mountain 100 mesh, 138,080# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 70.0 bpm, ATP @ 7,849 Max rate: 70.8 bpm, Max pressure: 9,835 psi. ISIP: 4,113 psi; 5 min: 3,780 psi. 508,920# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover -9,781 bbls. Annulus Pressure @ +/- 466 psi. Frac water is 100% fresh water, Water Temperature -76.4°. 21:20 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 21:20 Hrs- Prep to plug/guns for WL stage #38 of 44. 21:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,250 psi. (62 bbls FW) 22:40 Hrs - Set CFP @ 13,539', Tested Plug to 6,200 psi. 22:44 hrs: Perf Wolfcamp "A" Stage #38 of 44 from 13,339' –13,524' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 23:45 Hrs.</p> <p>Frac : 23:40 hrs - Prep to Frac Stage #38 of 44, 23:47 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #38 of 44 @ 13,339' - 13,524', via 7" 32# and 4 1/2" 13.5# casing, 424,188 gal of Slickwater, 0 # Black Mountain 100 mesh, 502,000# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 70.3 bpm, ATP @ 7,488 Max rate: 70.4 bpm, Max pressure: 9,875 psi. ISIP: 4,295 psi; 5 min: 3,664 psi. 502,000# Total Prop w/ Prop Con @ .50 – 2.08 placed. Load to recover -10,100 bbls. Annulus Pressure @ +/- 179 psi. Frac water is 100% fresh water, Water Temperature -76.0°. 02:23 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 02:23 Hrs- Prep to plug/guns for WL stage #39 of 44. 21:43 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,112 psi. (52 bbls FW) 03:54 Hrs - Set CFP @ 13,324', Tested Plug to 6,300 psi. 03:58 hrs: Perf Wolfcamp "A" Stage #39 of 44 from 13,125' –13,309' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 05:00 Hrs.</p> <p>Frac : 05:00 hrs - Prep to Frac Stage #39 of 44, 05:10 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #39 of 44 @ 13,125' - 13,309', via 7" 32# and 4 1/2" 13.5# casing at Report Time.</p> <p>Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 68°.  Wind Chill 68°.  Wind E 9 mph  Partly Cloudy</p>	



420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #27</b> <b>5/22/2018</b>		
Daily Cost :      \$44,258	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Continue Frac'g Wolfcamp "A" Stage #39 of 44 @ 13,125' - 13,309', via 7" 32# and 4 1/2" 13.5# casing, 392,205 gal of Slickwater, 231,140 # Black Mountain 100 mesh, 273,880# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 70.1 bpm, ATP @ 7,755 Max rate: 70.4 bpm, Max pressure: 10,259 psi. ISIP: 4,125 psi; 5 min: 4,125 psi. 505,020# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover -9,338 bbls. Annulus Pressure @ +/- 94 psi. Frac water is 100% fresh water, Water Temperature -73.0°. 07:40 hrs. - TWO to</p> <p>Wireline Plug/Perf : 07:40 Hrs- Prep to plug/guns for WL stage #40 of 44. 07:55 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Got to 8600' check gun string and CFP show to be short-out, POOH w/GE WL and Live gun string, Got to surface and confirm that Baker #10 was struck out and 4.5" Athena plug set-position, recover 1 (out of 12) CFP slip on top of NINE tool Trap, decision was made to Pumped a gel sweep and displaced bottom perf.</p> <p>Note: GE took Setting tool apart and found that inside firing head did not had firing ignitor and O-rings.</p> <p>Circ/Displace : 10:15 Hrs - Prime up and Psi Test , Perform Injection Test:</p> <p>Max Pressure: 9,931 psi, Max Rate: 70 bpm, Avg Pressure: = 7,459 psi, Avg Rate: 54 bpm, Fluid Pumped: 620 bbls</p> <p>Wireline Plug/Perf : 11:00 Hrs- Prep to plug/guns for WL stage #40 of 44. 11:30 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,250 psi. (49 bbls FW) 12:30 Hrs - Set CFP @ 13,110', Tested Plug to 6,200 psi. 12:35 hrs: Perf Wolfcamp "A" Stage #40 of 44 from 12,910' –13,095' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Bronco Services @ 13:30 Hrs.</p> <p>Equipment Repair : 13:30 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack, TWO to Frac @ 14:30</p> <p>Frac : 14:30 hrs - Prep to Frac Stage #40 of 44, 14:46 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #40 of 44 @ 12,910' - 13,095', via 7" 32# and 4 1/2" 13.5# casing, 413,232 gal of Slickwater, 462,540 # Black Mountain 100 mesh, 46,060# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 68.8 bpm, ATP @ 8,068 Max rate: 70.6 bpm, Max pressure: 9,159 psi. ISIP: 4,362 psi; 5 min: 4,285 psi. 505,020# Total Prop w/ Prop Con @ .50 – 2.11 placed. Load to recover -9839 bbls. Annulus Pressure @ +/- 339 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 17:15 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 17:15 Hrs- Prep to plug/guns for WL stage #41 of 44. 17:40 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,354 psi. (43 bbls FW) 18:41 Hrs - Set CFP @ 12,889', Tested Plug to 6,300 psi. 18:45 hrs: Perf Wolfcamp "A" Stage #41 of 44 from 12,695' –12,880' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 19:30 Hrs.</p> <p>Frac : 19:30 hrs - Prep to Frac Stage #41 of 44, 19:48 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #41 of 44 @ 12,695' - 12,880', via 7" 32# and 4 1/2" 13.5# casing, 408,366 gal of Slickwater, 416,460 # Black Mountain 100 mesh, 95,820# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2100 5 GAL ,eOFT 15170 250g, ATR @ 70.3 bpm, ATP @ 7,887 Max rate: 70.4 bpm, Max pressure: 9,587 psi. ISIP: 4,401 psi; 5 min: 4,216 psi. 512,280# Total Prop w/ Prop Con @ .50 – 2.20 placed. Load to recover -9,723 bbls. Annulus Pressure @ +/- 339 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 22:20 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 22:20 Hrs- Prep to plug/guns for WL stage #42 of 44. 22:45 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,536 psi. (37 bbls FW) 23:40 Hrs - Set CFP @ 12,680', Tested Plug to 6,400 psi. 23:44 hrs: Perf Wolfcamp "A" Stage #42 of 44 from 12,480' –12,665' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 00:30 Hrs.</p> <p>Frac : 00:30 hrs - Prep to Frac Stage #42 of 44, 19:48 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #41 of 44 @ 12,480' - 12,680', via 7" 32# and 4 1/2" 13.5# casing, 404,208 gal of Slickwater, 228,360 # Black Mountain 100 mesh, 280,900# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2100 5 GAL ,eOFT 15170 250g, ATR @ 70.4 bpm, ATP @ 7,727 Max rate: 71.8 bpm, Max pressure: 10,098 psi. ISIP: 4,612 psi; 5 min: 4,382 psi. 509,260# Total Prop w/ Prop Con @ .50 – 2.15 placed. Load to recover - 9,624 bbls. Annulus Pressure @ +/- 339 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 03:15 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 03:15 Hrs- Prep to plug/guns for WL stage #43 of 44. 03:35 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,280 psi. (29 bbls FW) 04:32 Hrs - Set CFP @ 12,465', Tested Plug to 6,600 psi. 04:35</p>	



Well History

hrs: Perf Wolfcamp "A" Stage #43 of 44 from 12,265' –12,450' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 05:30 Hrs. Frac : 05:30 hrs - Prep to Frac Stage #43 of 44, 05:45 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #43 of 44 @ 12,265' - 12,450', via 7" 32# and 4 1/2" 13.5# casing at Report Time. Operational Note : Production Facility 90% Completed, JSA's= 18 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0 Weather : Current Weather Conditions as Follows: Temp 72°. Wind Chill 72°. Wind E 12 mph Partly Cloudy
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Well History

Note: GE took Setting tool apart and found that inside firing head did not had firing ignitor and O-rings.  
Circ/Displace : 10:15 Hrs - Prime up and Psi Test , Perform Injection Test:

Max Pressure: 9,931 psi, Max Rate: 70 bpm, Avg Pressure: = 7,459 psi, Avg Rate: 54 bpm, Fluid Pumped: 620 bbls

Wireline Plug/Perf : 11:00 Hrs- Prep to plug/guns for WL stage #40 of 44. 11:30 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,250 psi. (49 bbls FW) 12:30 Hrs - Set CFP @ 13,110', Tested Plug to 6,200 psi. 12:35 hrs: Perf Wolfcamp "A" Stage #40 of 44 from 12,910' –13,095' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Bronco Services @ 13:30 Hrs.

Equipment Repair : 13:30 Hrs - Bronco Services Grease 7-1/16 15K Frac Stack, TWO to Frac @ 14:30

Frac : 14:30 hrs - Prep to Frac Stage #40 of 44, 14:46 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #40 of 44 @ 12,910' - 13,095', via 7" 32# and 4 1/2" 13.5# casing, 413,232 gal of Slickwater, 462,540 # Black Mountain 100 mesh, 46,060# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 68.8 bpm, ATP @ 8,068 Max rate: 70.6 bpm, Max pressure: 9,159 psi. ISIP: 4,362 psi; 5 min: 4,285 psi. 505,020# Total Prop w/ Prop Con @ .50 – 2.11 placed. Load to recover -9839 bbls. Annulus Pressure @ +/- 339 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 17:15 hrs. - TWO to WL

Wireline Plug/Perf : 17:15 Hrs- Prep to plug/guns for WL stage #41 of 44. 17:40 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,354 psi. (43 bbls FW) 18:41 Hrs - Set CFP @ 12,889', Tested Plug to 6,300 psi. 18:45 hrs: Perf Wolfcamp "A" Stage #41 of 44 from 12,695' –12,880' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 19:30 Hrs.

Frac : 19:30 hrs - Prep to Frac Stage #41 of 44, 19:48 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #41 of 44 @ 12,695' - 12,880', via 7" 32# and 4 1/2" 13.5# casing, 408,366 gal of Slickwater, 416,460 # Black Mountain 100 mesh, 95,820# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2100 5 GAL ,eOFT 15170 250g, ATR @ 70.3 bpm, ATP @ 7,887 Max rate: 70.4 bpm, Max pressure: 9,587 psi. ISIP: 4,401 psi; 5 min: 4,216 psi. 512,280# Total Prop w/ Prop Con @ .50 – 2.20 placed. Load to recover -9,723 bbls. Annulus Pressure @ +/- 339 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 22:20 hrs. - TWO to WL

Wireline Plug/Perf : 22:20 Hrs- Prep to plug/guns for WL stage #42 of 44. 22:45 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,536 psi. (37 bbls FW) 23:40 Hrs - Set CFP @ 12,680', Tested Plug to 6,400 psi. 23:44 hrs: Perf Wolfcamp "A" Stage #42 of 44 from 12,480' –12,665' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 00:30 Hrs.

Frac : 00:30 hrs - Prep to Frac Stage #42 of 44, 19:48 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #41 of 44 @ 12,480' - 12,680', via 7" 32# and 4 1/2" 13.5# casing, 404,208 gal of Slickwater, 228,360 # Black Mountain 100 mesh, 280,900# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2100 5 GAL ,eOFT 15170 250g, ATR @ 70.4 bpm, ATP @ 7,727 Max rate: 71.8 bpm, Max pressure: 10,098 psi. ISIP: 4,612 psi; 5 min: 4,382 psi. 509,260# Total Prop w/ Prop Con @ .50 – 2.15 placed. Load to recover - 9,624 bbls. Annulus Pressure @ +/- 339 psi. Frac water is 100% fresh water, Water Temperature -72.0°. 03:15 hrs. - TWO to WL

Wireline Plug/Perf : 03:15 Hrs- Prep to plug/guns for WL stage #43 of 44. 03:35 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 5,280 psi. (29 bbls FW) 04:32 Hrs - Set CFP @ 12,465', Tested Plug to 6,600 psi. 04:35 hrs: Perf Wolfcamp "A" Stage #43 of 44 from 12,265' –12,450' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes = 35. TWO to Frac @ 05:30 Hrs.

Frac : 05:30 hrs - Prep to Frac Stage #43 of 44, 05:45 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #43 of 44 @ 12,265' - 12,450', via 7" 32# and 4 1/2" 13.5# casing at Report Time.

Operational Note : Production Facility 90% Completed,  
JSA's= 18  
Spills= 0  
Incidents= 0  
Hot Work Permit= 0  
Stop Work Authority= 0  
Confined Space Entry = 0  
Weather : Current Weather Conditions as Follows:  
Temp 72°.   
Wind Chill 72°.   
Wind E 12 mph   
Partly Cloudy



420141-009.01 <b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b> Ward, TX	
Spud Date : 02/19/2018      Sec/TS/Range : 34/BLK 18/	
Prop Depth : 21,699	
API : 42-475-37258-00-00	
<b>AFE : 2618002</b> <b>Completion Rpt #28</b> <b>5/23/2018</b>  Daily Cost :      \$676,883 Cum Cost :      \$10,363,673	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 00:60 Hrs - Continue Frac'g Wolfcamp "A" Stage #43 of 44 @ 12,265' - 12,450', via 7" 32# and 4 1/2" 13.5# casing, 408,371 gal of Slickwater, 322,280 # Black Mountain 100 mesh, 184,880# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2100 5 GAL ,eOFT 15170 250g, ATR @ 70.5 bpm, ATP @ 7,428 Max rate: 70.9 bpm, Max pressure: 9,981 psi. ISIP: 4,445 psi; 5 min: 4,200 psi. 507,160# Total Prop w/ Prop Con @ .50 – 2.00 placed. Load to recover - 9,723 bbls. Annulus Pressure @ +/- 84 psi. Frac water is 100% fresh water, Water Temperature -73.0, 08:15 hrs. - TWO to WL</p> <p>Wireline Plug/Perf : 08:15 Hrs- Prep to plug/guns for WL stage #44 of 44. :35 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Correlate on depth to LT @ 10,044'. Start pump down when guns reached KOP @ 11,180'. Pump 8 bpm @ 6,485 psi. (21 bbls FW) 09:30 Hrs - Set CFP @ 12,250', Tested Plug to 6,400 psi. 09:34 hrs: Perf Wolfcamp "A" Stage #44 of 44 from 12,050' –12,235' with 10 each 3-1/8" guns loaded various spf, 60 Phasing - Hunting Titan EquaFrac, 23.0 gram (EXP-3323-371T-H1) charges, .40" EHD, Total holes =35. TWO to Frac @ 10:30 Hrs.</p> <p>Frac : 10:30 hrs - Prep to Frac Stage #44 of 44, 11:48 Hrs - Open Top Frac Valve on Well43 - 43 rds. Frac'g Wolfcamp "A" Stage #44 of 44 @ 12,050' - 12,235', via 7" 32# and 4 1/2" 13.5# casing, 408,045 gal of Slickwater, 419,400 # Black Mountain 100 mesh, 91,900# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2100 5 GAL ,eOFT 15170 250g, ATR @ 70.8 bpm, ATP @ 7,644 Max rate: 72.2 bpm, Max pressure: 10,305 psi. ISIP: 4,445 psi; 5 min: 4,223 psi. 511,300# Total Prop w/ Prop Con @ .50 – 2.12 placed. Load to recover - 9,715 bbls. Annulus Pressure @ +/- 204 psi. Frac water is 100% fresh water, Water Temperature -74.0°.</p> <p>RU/RD Equipment : 14:00 Hrs - ND Frac Head and Top Master Valve/ NU Night Cap/ Grease Frac Stack</p> <p>15:00 Hrs - RD HES Frac Fleet and support Equipment</p> <p>No Activity/SDFN : 06:00 hrs - Well SI Pending Drill Out Ops</p> <p>Operational Note : Production facility +/-98% complete</p> <p>Flow lines in place.</p> <p>JSA's= 9</p> <p>Spills= 0</p> <p>Incidents= 0</p> <p>Hot Work Permit= 0</p> <p>Stop Work Authority= 0</p> <p>Confined Space Entry = 0</p> <p>Weather : Current Weather Conditions as Follows: Temp 71°. Wind Chill 67°. Wind ESE 7 mph Clear</p> <p>Operational Note : NOTE: Left six cement blocks on location, numbers are as follows:28,29,31,33,38 &amp; 41</p>
<b>AFE : 2618002</b> <b>Construction Rpt #28</b> <b>5/23/2018</b>  Daily Cost :      \$676,883 Cum Cost :      \$10,363,673	<p>Discussed JSA # 090553.</p> <p>Crew installed halo poles and adjusted lights.</p> <p>Crew installed riser and riser cable on transformer pole.</p> <p>Crew energized overhead line and checked voltage on transformers.</p> <p>492,496,496</p> <p>Electricians installing low voltage cables and conduit.</p>
<b>AFE : 2618002</b> <b>Completion Rpt #27</b> <b>5/22/2018</b>  Daily Cost :      \$3,929,387 Cum Cost :      \$9,686,791	<p>Safety Meeting : 06:00 Hrs- Held Safety Meeting with all Vendors, Topics: STOP WORK AUTHORITY, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Other topics included for Operation were Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Escape routes, Spill Control/Reporting, Equipment Inspection and Contingency Plans, Rattle snakes</p> <p>Frac : 06:00 hrs - Continue Frac'g Wolfcamp "A" Stage #39 of 44 @ 13,125' - 13,309', via 7" 32# and 4 1/2" 13.5# casing, 392,205 gal of Slickwater, 231,140 # Black Mountain 100 mesh, 273,880# Rangeland 100 mesh, 0# Hi-Crush 100 mesh, Tracer CFT/IWT 2000 5 GAL ,eOFT 15600 250g, ATR @ 70.1 bpm, ATP @ 7,755 Max rate: 70.4 bpm, Max pressure: 10,259 psi. ISIP: 4,125 psi; 5 min: 4,125 psi. 505,020# Total Prop w/ Prop Con @ .50 – 2.09 placed. Load to recover -9,338 bbls. Annulus Pressure @ +/- 94 psi. Frac water is 100% fresh water, Water Temperature -73.0°. 07:40 hrs. - TWO to</p> <p>Wireline Plug/Perf : 07:40 Hrs- Prep to plug/guns for WL stage #40 of 44. 07:55 Hrs - RIH w/ WL to perf w/ 2-3/4in. Weight Bar, 2-3/4in. CCL, 2.75" ART, 10 x 3-1/8in. 20,000# Rated H1 guns, Baker #10 setting tool w/Slow Burn charge, Athena 3.60" Purple Seal CFP Plug (Part # 0018819), Got to 8600' check gun string and CFP show to be short-out, POOH w/GE WL and Live gun string, Got to surface and confirm that Baker #10 was struck out and 4.5" Athena plug set-position, recover 1 (out of 12) CFP slip on top of NINE tool Trap, decision was made to Pumped a gel sweep and displaced bottom perf.</p>



Well History

<b>AFE : 2618002</b> <b>Completion Rpt #29</b> <b>5/24/2018</b>  Daily Cost :       \$15,488 Cum Cost :     \$10,379,161	<p>No Activity/SDFN : 06:00 hrs - Well SI Pending Drill Out Ops. WO on Conquest 2-3/8" CTU and auxiliary equipment to arrive on location. Safety Meeting : 17:30 Hrs - Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd RU/RD Equipment : 18:30 Hrs - MIRU 2 3/8" Conquest Coil Unit, RU Conquest Fluid Pump and Conquest Mixing Plant, NU BOP's &amp; function test. PU Oil States BHA as Follows,</p> <p>Weld on Coil Connector O.D. =2.88", I.D. =1.38", Length = 0.3'. Dual Back Pressure Valve O.D. = 2.88", I.D. = 1.0", Length = 1.33'. Hydraulic Disconnect O.D. = 2.88", I.D. = 0.9", Length = 2.13'. Hydra Shock Jar O.D. 2.88", I.D. = N/A, Length = 1.17'. Tempress Screen O.D. = 2.88", I.D. = N/A, Length = 2.69'. Tempress Hydropull Agitator O.D.=2.88", I.D. = NA", Length = 2.69'. OSSES Motor O.D.= 2.875", I.D N/A , Length = 13.34' (OSSES Power Section - 4:5 lobe, 4 stage, 2.95 Rev/Gal, 5 BPM Max). X-Over O.D. = 3.13", I.D.= 1.0", Length = 1.16". Varel Bit O.D.= 3.75", I.D. = N/A", Length = 0.40'. Total Length=25.21'.</p> <p>Pulled tested to 40,000, Tested motor at 4.0 BPM @ 4,700 psi &amp; 4.5 BPM @ 5,500 psi. Pressure test Lube and Oil Patch Group Flow back lines to 8500 psi, good test. Tripping : 02:00 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K. Casing Press = 1,550 psi and started RIH W/ 2-7/8" Conquest Coil unit and Oil States BHA, Roll over pump 1.0 BPM, CP = 2,300 psi. Flowing back - 1.25 BPM, WH - 1,600 psi. RIH to 10,000' Perform Weight check 34K PU &amp; 16K RIH (LT @ 10,044'), brought rate up to 4.5 BPM CP = 6,500 psi, flowing back 4.75 BPM, WH - 1,800 psi continued RIH W/ 2-7/8" Conquest Coil Tubing. Drilling/Milling : 04:47 Hrs - Tag CFP #1 of 45 @ 12,250' (12,256' CTD). Mill on Plug, Plug Milled in 5 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.75 on 28/64 ck, CP @ 7,500 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 100-105 visc. Returned Visc (Not to Surface). Wash to Plug# 2 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8 casing Press = 0 psi.</p> <p>05:07 Hrs - Tag CFP #2 of 45 @ 12,465' (12,470' CTD). Mill on Plug, Plug Milled in 5 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.75 on 28/64 ck, CP @ 6,900 psi, WH @ 1,200 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 100-105 visc. Returned Visc (Not to Surface). Wash to Plug# 3 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8 casing Press = 0 psi.</p> <p>05:32 Hrs - Tag CFP #3 of 45 @ 12,680' (12,685' CTD). Mill on Plug, Plug Milled in 5 Mins, Pumped 10 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.75 on 28/64 ck, CP @ 6,400 psi, WH @ 1,250 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 100-105 visc. Returned Visc (Not to Surface). Wash to Plug# 4 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8 casing Press = 0 psi.</p> <p>Pull plug catcher screen as plugs return to surface. (Medium plug parts- Light sand). Sweeps retuning to surface on time. No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.</p> <p>Operational Note : Conquest Pumped 611 bbls of FW, Total FW on location start Job =4201 bbls Conquest Beginning Chemicals as follows : Xanthan = 885 gls Biocide = 448 gls Beka Lube = 50 bkts Quantum = 660 gls Foamer = 320 gls FR 1216 = 645 gls Scavenger = 625 gls Blue Dye = 9 gls Bugstick = 105 bkts Operational Note : Production Facility 95% Completed, JSA's = 4 Spills = 0 Incidents = 0 Hot Work Permit = 0 Stop Work Authority = 0 Confined Space Entry = 0 Cement Blocks = 28, 29, 31, 33, 38, &amp; 41 Day Time Consultants = Larry Davis/Chance McClure Night Time Consultant = John Wayne Bailey</p> <p>Weather : Current Weather Conditions as Follows: Current: 61 degrees. NW Winds 5 mph Mostly Clear Forecast: 95 degrees. ESE Winds 10-15 mph 50% Chance of Storms</p>
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<b>420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #34</b> <b>5/29/2018</b>  Daily Cost :        \$23,048 Cum Cost :     \$11,599,006	<p>Safety Meeting : 05:30 Hrs: Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd.</p> <p>Tripping : 06:00 Hrs TOO H @ 30 fpm. PU wt. 64K. Pump 100% FW @ 4.0 bpm return rate of 4.0 bpm. CP – 7,800. WH - 1,300. Continue pumping capacity sweeps while POOH. Time 20 bbl sweep to exit bit prior to entering curve. Continue POOH into the vertical and thru x-over with no issues. Increase reel speed to 70 fpm and continue POOH. 11:30 Hrs Bump Up, Close Frac valve, bled pressure off, ND Lubricator, lower Oil States Drilling BHA, recovered all of BHA, after inspection the motor was broken at the top</p> <p>RU/RD Equipment : 12:00 Hrs Oil States to disassemble the drilling BHA, Conquest cut off coil connector &amp; 56' of coil tubing. The welder sniffed the are with tri-gas meter showed no LEL, welded on a new coil connector. Conquest let the connection cool down for 45 minutes. Conquest conducted a pull test to 30K Good test. Oil States to assemble a new drilling BHA. Test motor @ 3.5 bpm 4,200 psi, 4.5 bpm @ 6,600 psi, good test. NU Lubricator to Frac Stack pressure test to 8,500 psi good test, bled down to 1,800 psi,</p> <p>Tripping : 15:00 Hrs - Equalize Well, Open Frac valve 7-1/16" 15K. Casing Press = 1,550 psi and started RIH W/ 2-3/8" Conquest Coil unit and Oil States BHA. Roll over pump 1.0 BPM, CP = 2,300 psi. Flowing back - 1.25 BPM, WH - 1,600 psi. RIH to 10,000' Perform Weight check 40K PU &amp; 23K RIH (LT @ 10,044'), brought rate up to 4.5 BPM CP = 8,100 psi, flowing back 4.5 BPM, WH - 1,500 psi continued RIH W/ 2-3/8" Conquest Coil Tubing.</p> <p>06:00 Hrs - Continue TIH w/ 2-3/8" CT, current depth - 20,880' @ 2 FPM. (673' remain).</p> <p>Pull plug catcher screen as sweeps return to surface. (returns are clean). Sweeps returning to surface on time.</p> <p>No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.</p> <p>Operational Note : Production Facility 95% Completed, JSA's = 10 Spills = 0 Incidents = 0 Hot Work Permit = 0 Stop Work Authority = 0 Confined Space Entry = 0 Cement Blocks = 28, 29, 31, 33, 38, &amp; 41 Day Time Consultants = Donny Selman Night Time Consultant = John Wayne Bailey</p> <p>Weather : Current: 71 degrees. Clear. ESE winds 6 mph. Forecast: Sunny. High 105 degrees. Winds SW 10 - 15 mph.</p>	
<b>AFE : 2618002</b> <b>Completion Rpt #33</b> <b>5/28/2018</b>  Daily Cost :        \$23,856 Cum Cost :     \$11,575,959	<p>Safety Meeting : 05:30 Hrs: Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd.</p> <p>Drilling/Milling : 06:11 Hrs - Tag CFP#36 of 45 @ 19,771' (19,815' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep &amp; 10 bbl sweep with POP when thru Plug w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.0 on 30/64 ck, CP @ 8,200 psi, WH @ 1,375 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115 -120 visc. Returned Visc 34. Wash to Plug #37 of 45 @ 3 to 5 fpm, RIH WT 16K. 9-5/8" casing Press = 500</p> <p>07:28 Hrs - Tag CFP#37 of 45 @ 19,986' (20,025' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.1 on 30/64 ck, CP @ 8,100 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #38 of 45 @ 3 to 5 fpm, RIH WT 16K. 9-5/8" casing Press = 500</p> <p>09:06 Hrs - Tag CFP#38 of 45 @ 20,196' (20,248' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 10 bbls sweep &amp; 10 bbl sweep with POP when thru Plug w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.1 on 30/64 ck, CP @ 8,300 psi, WH @ 1,350 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #39 of 45 @ 3 to 5 fpm, RIH WT 16K. 9-5/8" casing Press = 500</p> <p>Pull plug catcher screen as plugs return to surface. (Small plug parts, medium sand). Sweeps returning to surface on time.</p> <p>No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.</p>	

Well History

Drilling/Milling : 11:44 Hrs - Tag CFP #39 of 45 @ 20,416' (20,456' CTD). Mill on Plug, Plug Milled in 14 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.0 on 30/64 ck, CP @ 8,300 psi, WH @ 1,350 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #40 of 45 @ 3 to 5 fpm, PU WT 65K, RIH WT 6K. 9-5/8" casing Press = 500

15:21 Hrs - Tag CFP #40 of 45 @ 20,611' (20,651' CTD). Mill on Plug, Plug Milled in 27 Mins, Pumped 5 bbls sweep, 20 bbls sweep w / POP when thru Plug w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.0 on 30/64 ck, CP @ 8,250 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #41 of 45 @ 3 to 5 fpm, PU WT 65K, RIH WT 20K. 9-5/8" casing Press = 500

16:09 Hrs - Tag CFP #41 of 45 @ 20,621' (20,665' CTD). Mill on Plug, Plug Milled in 22 Mins, Pumped 5 bbls sweep, 20 bbls sweep w / POP when thru Plug w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.0 on 30/64 ck, CP @ 8,100 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #42 of 45 @ 3 to 5 fpm, PU WT 65K, RIH WT 20K. 9-5/8" casing Press = 500

Pull plug catcher screen as plugs return to surface. (Small plug parts, medium sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 17:00 Hrs - Did not Tag CFP #42 of 45 @ 20,631' (20,692' CTD). Conquest called no plug Pumped 5 bbls sweep, 20 bbls sweep w / POP w/ target visc 120. Pump rate 4.2 bpm 100% FW with return rate of +/- 4.0 on 30/64 ck, CP @ 8,100 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #43 of 45 @ 3 to 5 fpm, PU WT 65K, RIH WT 20K. 9-5/8" casing Press = 500

19:29 Hrs - Tag CFP #43 of 45 @ 20,841' (20,895' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep, 20 bbls sweep w/ POP when thru Plug w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.25 on 30/64 ck, CP @ 7,700 psi, WH @ 1,400 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #44 of 45 @ 3 to 5 fpm, PU RIH WT 2K. 9-5/8" casing Press = 500

19:55 Hrs - Tag CFP #44 of 45 @ 20,909' (20,957' CTD). Mill on Plug, Plug Milled in 13 Mins, Pumped 5 bbls sweep, 20 bbls sweep w/ POP when thru Plug w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.25 on 30/64 ck, CP @ 7,800 psi, WH @ 1,350 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #45 of 45 @ 3 to 5 fpm, RIH WT 10K. 9-5/8" casing Press = 500

Pull plug catcher screen as plugs return to surface. (Small plug parts, medium sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 23:58 Hrs - Tag CFP #45 of 45 @ 21,342' (21,360' CTD). Mill on Plug, Plug Milled in 20 Mins, Pumped 5 bbls sweep, 20 bbls sweep w/ POP when thru Plug w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.25 on 30/64 ck, CP @ 7,800 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to bottom @ 3 to 5 fpm, RIH WT 1K. 9-5/8" casing Press = 500

00:18 Hrs - Reached 21,370', unable to make hole. Pumped POP, Beka Lube, and worked coil for 4 hours without success. Decision was made by Conquest to POOH and inspect BHA.

03:45 Hrs - Pump third 20/10/20 120 visc sweep while working coil. Continue circulating w/ 4.0 bpm in, 4.0 bpm out and pumping 5 bbl capacity sweeps every 80 bbls. CP – 7,800 psi, WH- 1,300 psi. PU 20' every 15 min. PU wt. 64K.

Pull plug catcher screen as plugs return to surface. 9-5/8" PSI = 600

Pull plug catcher screen as plugs return to surface. (Small plug parts, medium sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Tripping : 04:05 Hrs - After two bottoms up sweeps returned to surface and returns clean. POOH @ 30 fpm. PU wt. 64K. Pump 100% FW @ 4.0 bpm return rate of 4.0 bpm. CP – 7,800. WH - 1,300. Continue pumping capacity sweeps while POOH. Time 20 bbl sweep to exit bit prior to entering curve. Continue POOH into the vertical and thru x-over with no issues. Increase reel speed to 70 fpm and continue POOH.

06:00 Hrs - Continue POOH w/ 2-3/8" CT at report time.

Operational Note : Production Facility 95% Completed,  
JSA's = 10  
Spills = 0  
Incidents = 0



Well History

	<p>Hot Work Permit = 0 Stop Work Authority = 0 Confined Space Entry = 0 Cement Blocks = 28, 29, 31, 33, 38, &amp; 41 Day Time Consultants = Donny Selman Night Time Consultant = John Wayne Bailey</p> <p>Weather : Current: 77 degrees. Clear. SE winds 14 mph. Forecast: Sunny. High 106 degrees. Winds S 10 - 15 mph.</p>
<p><b>AFE : 2618002</b> <b>Completion Rpt #32</b> <b>5/27/2018</b></p> <p>Daily Cost :       \$24,003 Cum Cost :     \$11,552,103</p>	<p>Safety Meeting : 05:30 Hrs: Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd.</p> <p>Tripping : 06:00 Hrs This morning after crew change coil had entered the horizontal, went to increase BPM to 4.5 unable to get the pump truck to shift gears to get the 4.5 BPM Conquest advised to POH above liner top, and are looking for a 3rd Party pump truck to replace the one here on location. TOH 200' above TOL @ 9,800' and wait for replacement pump truck. Pump rate 3.8 bpm 100% FW with return rate of +/- 3.8 bpm on 29/64 ck, CP @ 7,850 psi, WH @ 1,350 psi. Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps) as we pull out of the hole. POH to 9,800' slowed IR to 3.25 bpm, FR @ 3.25 bpm</p> <p>Waiting-Orders/Equip : 07:15 CTD @ 9,800' CR 3.25 bpm, FR 3.25 bpm, waiting for additional pump trucks to AOL. Armada pump truck AOL @ 08:30.</p> <p>RU/RD Equipment : 08:30 Hrs Armada pump truck AOL @ 08:30. Shut down Conquest pump truck, Shut Well in. RU N2 pump to Conquest pump truck and blew it dry to FB Tanks. RD Conquest pump truck, RU Armada pump truck to Conquest mixing plant, 2nd Armada Pump truck AOL @ 09:10, RU to mixing plant, RU both pumps to coil trailer, break circulation to FB Tanks, Pressure test to 9,500 psi. Bled pressure off to 1,600 psi opened frac valve.</p> <p>Tripping : 11:35 Hrs - TIH to CFP #30 of 45. . Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 bpm on 29/64 ck, CP @ 8,000 psi, WH @ 1,450 psi. Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps).</p> <p>(Note: The two Armada single pump trucks are having a lot of trouble trying to pump @ 4.5 bpm 8,000 psi, having over heating issues, Conquest employees have repacked stuffing boxes several times on both trucks. Conquest advised Armada of the issues we were having, Armada is sending out a frac / pump down dual pump truck @ 17:00 hrs. Conquest waiting for Armada to AOL).</p> <p>Waiting-Orders/Equip : 20:09 Hrs - Shut down coil at 18,281'. Continue pumping 2.3 BPM, returning 2 BPM. CP - 4,200 psi, WH - 1,400 psi. Waiting on Armada pump down pump to arrive on location.</p> <p>RU/RD Equipment : 20:45 Hrs - New pumped arrived on location, SD pumps, secure well, bleed off iron, &amp; RD both singled Armada pumps. MIRU Armada pump down pump.</p> <p>Drilling/Milling : 22:16 Hrs - Tag CFP #30 of 45 @ 18,482' (18,522' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.5 on 31/64 ck, CP @ 8,450 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #31 of 45 @ 5 to 10 fpm, RIH WT 15K. 9-5/8" casing Press = 500 psi.</p> <p>23:40 Hrs - Tag CFP #31 of 45 @ 18,694' (18,734' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.0 bpm 100% FW with return rate of +/- 4.3 on 31/64 ck, CP @ 7,800 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #32 of 45 @ 3 to 5 fpm, RIH WT 10K. 9-5/8" casing Press = 500 psi.</p> <p>00:54 Hrs - Tag CFP #32 of 45 @ 18,912' (18,939' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 10 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.0 bpm 100% FW with return rate of +/- 4.0 on 30/64 ck, CP @ 7,800 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #33 of 45 @ 3 to 5 fpm, RIH WT 22K. 9-5/8" casing Press = 500</p> <p>Pull plug catcher screen as plugs return to surface. (Small plug parts, light sand). Sweeps returning to surface on time. (Note: upon receiving 5 bbls sweep from plug 30 at surface, small amounts of shale were in returns. Changed pump in/out rate to bbl in/out and shale retrieval seized).</p> <p>No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.</p> <p>Drilling/Milling : 02:06 Hrs - Tag CFP #33 of 45 @ 19,127' (19,164' CTD). Mill on Plug, Plug Milled in 12 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.5 on 30/64 ck, CP @ 7,600 psi, WH @ 1,200 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #34 of 45 @ 3 to 5 fpm, RIH WT 15K. 9-5/8" casing Press = 500 psi.</p> <p>03:24 Hrs - Tag CFP #34 of 45 @ 19,338' (19,376' CTD). Mill on Plug, Plug Milled in 11 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.0 bpm 100% FW with return rate of +/- 3.9 on 30/64 ck, CP @ 7,600 psi, WH @ 1,200 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #35 of 45 @ 3 to 5 fpm, RIH WT 15K. 9-5/8" casing Press = 500 psi.</p>



Well History

04:42 Hrs - Tag CFP #35 of 45 @ 19,557' (19,595' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 20 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.0 bpm 100% FW with return rate of +/- 3.9 on 30/64 ck, CP @ 7,700 psi, WH @ 1,200 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to Plug #36 of 45 @ 3 to 5 fpm, RIH WT 16K. 9-5/8" casing Press = 500

Pull plug catcher screen as plugs return to surface. (Small plug parts, medium sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Operational Note : Production Facility 95% Completed,  
JSA's = 8  
Spills = 0  
Incidents = 0  
Hot Work Permit = 0  
Stop Work Authority = 0  
Confined Space Entry = 0  
Cement Blocks = 28, 29, 31, 33, 38, & 41  
Day Time Consultants = Donny Selman  
Night Time Consultant = John Wayne Bailey

Weather : Current: 79 degrees. Clear. E winds 7 mph.  
Forecast: Sunny. High 106 degrees. Winds SE 10 - 15 mph. (Heat advisory until 19:00 Hrs).

**AFE : 2618002**  
**Completion Rpt #31**  
**5/26/2018**

Daily Cost : \$26,544  
Cum Cost : \$11,528,100

Safety Meeting : 05:300 Hrs: Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd.

Tripping : 06:00 Hrs - TIH to CFP #20 of 45. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 bpm on 27/64 ck, CP @ 7,400 psi, WH @ 1,400 psi. Fighting friction sent 10 bbls sweep of pipe on pipe, started adding 1 quart per 10 bbls. Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps). Tag'd plug 20 of 45 @ 16,345" CTD @ 09:20

0620 Hrs - Pull plug catcher screen after 10-20-10 sweep return to surface. ( .6 lbs. Small amount of plug parts, 2 - small metal slips, light sand, no cement or shale). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 09:20 Hrs - Tag CFP #20 of 45 @ 16,333' (16,345' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,300 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #21 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8"- Casing Press = 500 psi

10:03 Hrs - Tag CFP #21 of 45 @ 16,542' (16,563' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 10 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,100 psi, WH @ 1,400 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #22 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8"- Casing Press = 500 psi

10:40 Hrs - Tag CFP #22 of 45 @ 16,763' (16,776' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,300 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #23 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8"- Casing Press = 500 psi

Pull plug catcher screen as plugs return to surface. (Medium amount of plug parts, light sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 11:48 Hrs - Tag CFP #23 of 45 @ 16,978' (16,995' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,300 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #24 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8"- Casing Press = 500 psi

12:38 Hrs - Tag CFP #24 of 45 @ 17,193' (17,218' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 20 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,300 psi, WH @ 1,600 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #25 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8"- Casing Press = 500 psi

13:28 Hrs - Tag CFP #25 of 45 @ 17,408' (17,432' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 20 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,000 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #26 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8"- Casing Press = 500 psi

Well History

14:15 Reached a total depth of 17,615 CTD POH 100' for weight check 61K POH a little drag at first cleaned up looking good washed down to CFP #26 of 45.

Pull plug catcher screen as plugs return to surface. (Medium amount of plug parts, light sand). Sweeps retuning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 14:48 Hrs - Tag CFP #26 of 45 @ 17,622' (17,649' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,400 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #27 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8" - Casing Press = 500 psi

15:32 Hrs - Tag CFP #27 of 45 @ 17,837' (17,864' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 20-10-20 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 7,800 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #28 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8" - Casing Press = 500 psi

16:48 Hrs - Tag CFP #28 of 45 @ 18,052' (18,090' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,300 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #29 of 45 @ 10 to 15 fpm, Sent a slug of Pipe on Pipe and up the rate to 1/2 gallon RIH WT 20K. 9-5/8" - Casing Press = 500 psi

Pull plug catcher screen as plugs return to surface. (Medium amount of plug parts, light sand). Sweeps retuning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 18:04 Hrs - Tag CFP #29 of 45 @ 18,267' (18,300' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 8,000 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #30 of 45 @ 10 to 15 fpm, RIH WT 20K. 9-5/8" - Casing Press = 500 psi

Pull plug catcher screen as plugs return to surface. (Minimal plug parts - Medium sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Circ/Displace : 18:50 Hrs - Lube pressure on power end of pump dropped, switch sides on pump. While switching sides and bringing rate up, transmission began overheating. Utilize both sides of the pump to bring rate up to 5 BPM w/ 4.7 BPM returns, pump 20/10/20 BBLS sweep with 120 viscosity. CP @ 7,700 psi, WH @ 1,200 psi.

Pull plug catcher screen as plugs return to surface. (Minimal plug parts - Medium sand). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Tripping : 20:39 Hrs - Short trip to above liner top @ 30 FPM. LT @ 10,044'. PU WT 65K. Pump rate 5 bpm 100% FW with return rate of +/- 5 bpm on 28/64 ck, CP @ 8,100 psi, WH @ 1,200 psi. Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps) while POOH to 9,853'.

Pull plug catcher screen as plugs return to surface. (Minimal plug parts - Medium sand). Sweeps returning to surface on time.

Final 10/10/10 gel sweep through the curve came back clean.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Equipment Repair : 01:30 Hrs - SD CTU @ 9,853' (LT @ 10,044'). Secure well, bleed off surface iron and begin making repairs to lube pump.

Tripping : 03:30 Hrs - Repairs made, TIH to CFP #30 of 45. . Pump rate 4.5 bpm 100% FW with return rate of +/- 4.5 bpm on 29/64 ck, CP @ 7,850 psi, WH @ 1,350 psi. Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps).

Pull plug catcher screen as plugs return to surface. (returns are clean). Sweeps returning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

06:00 Hrs – Continue TIH to CFP #30 of 45 at report time.

Operational Note : Production Facility 95% Completed,  
JSA's = 8  
Spills = 0  
Incidents = 0  
Hot Work Permit = 0  
Stop Work Authority = 0



Well History

	<p>Confined Space Entry = 0 Cement Blocks = 28, 29, 31, 33, 38, &amp; 41 Day Time Consultants = Donny Selman Night Time Consultant = John Wayne Bailey</p> <p>Weather : Current: 72 degrees. Clear. SSE winds 9 mph. Forecast: Sunny. High 106 degrees. Winds SSW 8 mph.</p>
<p><b>AFE : 2618002</b> <b>Completion Rpt #30</b> <b>5/25/2018</b></p> <p>Daily Cost : \$32,414 Cum Cost : \$11,501,556</p>	<p>Safety Meeting : 06:00 Hrs: Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd.</p> <p>Drilling/Milling : 06:05 Hrs - Tag CFP #4 of 45 @ 12,889' (12,892' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.7 on 28/64 ck, CP @ 6,700 psi, WH @ 1,275 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 100-105 visc. Returned Visc 38. Wash to Plug# 5 of 45 @ 10 to 15 fpm, RIH WT 27K. 9 5/8 casing Press = 0 psi.</p> <p>06:36 Hrs - Tag CFP #5 of 45 @ 13,110' (13,119' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.7 on 28/64 ck, CP @ 6,700 psi, WH @ 1,200 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 100-105 visc. Returned Visc 38. Wash to Plug# 6 of 45 @ 10 to 15 fpm, RIH WT 27K. 9 5/8 casing Press = 0 psi.</p> <p>07:29 Hrs - Tag CFP #6 of 45 @ 13,324' (13,328' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.7 on 28/64 ck, CP @ 6,700 psi, WH @ 1,100 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 100-105 visc. Returned Visc 38.</p> <p>07:50 Hrs - Conquest has a leak on the Reel Trailer Send a 20/10/20</p> <p>Pull plug catcher screen as plugs return to surface. (Medium plug parts- Light sand). Sweeps retuning to surface on time. No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.</p> <p>Equipment Repair : 08:00 Hrs - Pulled Up To LT and Fixed the real swivel manifold.</p> <p>12:15 Hrs - RIH w/ coil to continue drill out operations.</p> <p>Drilling/Milling : 13:01 Hrs - Tag CFP #7 of 45 @ 13,539' (13,548' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 100. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 7,800 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. Wash to Plug# 8 of 45 @ 10 to 15 fpm, RIH WT 33K. 9 5/8 casing Press = 0 psi.</p> <p>13:32 Hrs - Tag CFP #8 of 45 @ 13,754' (13,765' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 8,000 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. Wash to Plug# 9 of 45 @ 10 to 15 fpm, RIH WT 33K. 9 5/8 casing Press = 0 psi.</p> <p>14:14 Hrs - Tag CFP #9 of 45 @ 13,969' (13,378' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 8,100 psi, WH @ 1,500 psi. Continue pumping 10 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. RIH WT 33K. 9 5/8 casing Press = 0 psi.</p> <p>Pull plug catcher screen as plugs return to surface. (small to medium plug parts, light sand, small amounts of cement and shale). Sweeps retuning to surface on time. No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.</p> <p>Drilling/Milling : 14:56 Hrs - Tag CFP #10 of 45 @ 14,184' (14,193' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 7,500 psi, WH @ 1,700 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. Wash to Plug# 11 of 45 @ 10 to 15 fpm, RIH WT 35K. 9 5/8 casing Press = 0 psi.</p> <p>15:29 Hrs - Tag CFP #11 of 45 @ 14,399' (14,409' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 7,800 psi, WH @ 1,700 psi. Continue pumping 5 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. Wash to Plug# 12 of 45 @ 10 to 15 fpm, RIH WT 33K. 9 5/8 casing Press = 0 psi.</p> <p>16:00 Hrs - Tag CFP #12 of 45 @ 14,614' (14,621' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 8,300 psi, WH @ 1,700 psi. Continue pumping 20 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. Wash to Plug# 13 of 45 @ 10 to 15 fpm, RIH WT 33K. 9 5/8 casing Press = 0 psi.</p>



Well History

Pull plug catcher screen as plugs return to surface. (Medium plug parts, light sand, small amounts of cement and shale). Sweeps retuning to surface on time.  
 No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.  
 Drilling/Milling : 16:45 Hrs - Tag CFP #13 of 45 @ 14,823' (14,832' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 28/64 ck, CP @ 7,500 psi, WH @ 1,400 psi. Continue pumping 20 BBL sweeps every 80 BBLS ( Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 38. Wash to Plug# 14 of 45 @ 10 to 15 fpm, RIH WT 33K. 9 5/8 casing Press = 0

Pull plug catcher screen as plugs return to surface. (Medium plug parts, light sand, small amounts of cement and shale). Sweeps retuning to surface on time.  
 No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.  
 Circ/Displace : 17:00 Hrs - Conquest Coil tubing pumped and circulated 20/10/20 120 viscosity sweeps to surface. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 7,400 psi, WH @ 1,400 psi.

Pull plug catcher screen as plugs return to surface. (small amount of plug parts, light sand, 4.5 lbs of cement, & handful of shale). Sweeps retuning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.

19:40 Hrs - Pumped 2nd 20/10/201 120 viscosity sweeps to surface before drilling out the Boss Hog plugs. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 7,400 psi, WH @ 1,400 psi.

Pull plug catcher screen as plugs return to surface. (small amount of plug parts, light sand, handful of cement, & 3.5 lbs of shale). Sweeps retuning to surface on time.

No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks- 0%.

21:17 Hrs - Continue RIH w/ 2-3/8" CT to resume drill out operations.  
 Drilling/Milling : 21:27 Hrs - Tag CFP #14 of 45 @ 15,044' (15,055' CTD). Mill on Plug, Plug Milled in 13 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 7,400 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #15 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8" casing Press = 0 psi.

22:06 Hrs - Tag CFP #15 of 45 @ 15,259' (15,268' CTD). Mill on Plug, Plug Milled in 14 Mins, Pumped 10 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 7,400 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #16 of 45 @ 10 to 15 fpm, RIH WT 30K. 9-5/8" casing Press = 0 psi.

23:06 Hrs - Tag CFP #16 of 45 @ 15,473' (15,485' CTD). Mill on Plug, Plug Milled in 12 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 on 27/64 ck, CP @ 7,400 psi, WH @ 1,300 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #17 of 45 @ 10 to 15 fpm, RIH WT 33K. 9-5/8" casing Press = 0

Pull plug catcher screen as plugs return to surface. (small amount of plug parts, light sand, small amounts of cement and shale). Sweeps retuning to surface on time.  
 No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Drilling/Milling : 23:56 Hrs - Tag CFP #17 of 45 @ 15,688' (15,699' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.1 on 27/64 ck, CP @ 7,400 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #18 of 45 @ 10 to 15 fpm, RIH WT 25K. 9-5/8" casing Press = 0 psi.

00:38 Hrs - Tag CFP #18 of 45 @ 15,903' (15,915' CTD). Mill on Plug, Plug Milled in 12 Mins, Pumped 20 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.2 on 27/64 ck, CP @ 7,500 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #19 of 45 @ 10 to 15 fpm, RIH WT 28K. 9-5/8" casing Press = 0 psi.

01:19 Hrs - Tag CFP #19 of 45 @ 16,118' (16,129' CTD). Mill on Plug, Plug Milled in 10 Mins, Pumped 5 bbls sweep when thru Plug w/ target visc 120. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.1 on 27/64 ck, CP @ 7,500 psi, WH @ 1,500 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 33. Wash to Plug #20 of 45 @ 10 to 15 fpm, RIH WT 33K. 9-5/8" casing Press = 0

Pull plug catcher screen as plugs return to surface. (small amount of plug parts, light sand, small amounts of cement and shale). Sweeps retuning to surface on time.  
 No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Tripping : 02:33 Hrs – Tag CFP #20 of 45 @ 16,333' (16,345' CTD). Due to insufficient plug parts in returns, Decision was made by Conquest to make a short trip. PU 5' off CFP, pump 20/10/20 120 viscosity gel sweeps and short trip to liner top @ 30 FPM (LT @ 10,044'). PU WT 54K. Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 bpm on 27/64 ck, CP @ 7,400 psi, WH @ 1,400 psi.



Well History

Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps) while POOH to LT. Time20 bbl sweep to exit bit prior to entering curve. Continue POOH into the vertical and thru liner top to 9,744' with no issues.

Pull plug catcher screen as plugs return to surface. (medium amount of plug parts, medium to heavy sand, no cement or shale). Sweeps returning to surface on time.  
No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

Tripping : 05:20 Hrs – Pulled above LT to 9,744', TIH to CFP #20 of 45. . Pump rate 4.5 bpm 100% FW with return rate of +/- 4.3 bpm on 27/64 ck, CP @ 7,400 psi, WH @ 1,400 psi. Continue pumping 5 bbl sweeps every 80 bbls (capacity sweeps).

Pull plug catcher screen as plugs return to surface. (small amount of plug parts, light sand, no cement or shale). Sweeps returning to surface on time.  
No gas at surface. Check FB tanks w/ Quad Gas Meter. LEL reading at FB tanks - 0%.

06:00 Hrs – Continue TIH to CFP #20 of 45 at report time.

Operational Note : Production Facility 95% Completed,  
JSA's = 8  
Spills = 0  
Incidents = 0  
Hot Work Permit = 0  
Stop Work Authority = 0  
Confined Space Entry = 0  
Cement Blocks = 28, 29, 31, 33, 38, & 41  
Day Time Consultants = Larry Davis/Chance McClure  
Night Time Consultant = John Wayne Bailey

Weather : Current: 70 degrees. Clear. ESE winds 8 mph.  
Forecast: Sunny. High 102 degrees. Winds S 11 mph.



Cimarex Energy Co.  
Well History

5/31/2018 9:26:05 AM

<div>420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H</div> <div>Spud Date : 02/19/2018</div> <div>Prop Depth : 21,699</div> <div>API : 42-475-37258-00-00</div>		<div>Ward, TX</div> <div>Sec/TS/Range : 34/BLK 18/</div>
<div>AFE : 2618002</div> <div>Completion Rpt #36</div> <div>5/31/2018</div> <div>Daily Cost :        \$9,923</div> <div>Cum Cost :    \$11,666,894</div>	<div>Flowback : 06:00 Hrs.-Flow Wolfcamp Shale "A" (12,050' – 21,543') via 7" x 4-1/2 Csg to Flow back tank, Last hour: FCP= 1,250 psi, 19/64" Choke, Water LH=81 bbls, Oil LH= 13 bbls, DBWR= 1842 bbls, DBOR= 134 bbls, DSR= 0 bbls, CBWR=35,594 bbls, CBOR= 134 bbls, CSR= 446 bbls, TLTR= 528,279 bbls, LLTR= 492,683 bbls, % of Load Rec= 6.96%, Gas= 696 mcf.</div>	
<div>AFE : 2618002</div> <div>Completion Rpt #35</div> <div>5/30/2018</div> <div>Daily Cost :        \$21,819</div> <div>Cum Cost :    \$11,656,971</div>	<div>Safety Meeting : 05:30 Hrs: Held Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Designated Smoking Areas, Communication, Complacency. Muster Point, Crane Ops/Suspended Loads, Pressurized Well and Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Slips, Trips and Falls, Accident Reporting, Emergency Ops, Coil Tbg Ops, Speed on Lease Rd.</div> <div>Tripping : 06:00 Hrs Conquest 2-3/8" Coil tubing continue tripping in the hole @ 2' - 3' per minute CR 4.5 BPM CP = 8,100 psi, flowing back 4.5 BPM, WH - 1,500 psi continued RIH W/ 2-3/8" Conquest, Tag'd @ 21,370'.</div> <div>Drilling/Milling : 10:19 Hrs - Tag CFP #45 of 45 @ 21,342' (21,370' CTD). Mill on Plug, Plug Milled in 20 Mins, Pumped 5 bbls sweep, 20 bbls sweep w/ POP when thru Plug w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.25 on 30/64 ck, CP @ 8,000 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. Wash to bottom @ 3 to 5 fpm, RIH WT 1K. 9-5/8" casing Press = 500</div> <div>12:15 Hrs washed down to 21,553' pumped 20-10-20 bbl sweep circulate bottoms up, sent another 20-10-20 bbl sweep after sweep exited the bit, waited 45 minutes started out of the hole sending 5 bbl capacity sweeps with POP &amp; FR as needed, w/ target visc 120. Pump rate 4.25 bpm 100% FW with return rate of +/- 4.25 on 30/64 ck, CP @ 8,000 psi, WH @ 1,450 psi. Continue pumping 5 BBL sweeps every 80 BBLS (Capacity Sweeps), Pumped Visc range 115-120 visc. Returned Visc 34. 9-5/8" casing Press = 500</div> <div>Tripping : 14:15 Hrs - After two bottoms up sweeps returned to surface and returns clean. POOH @ 30 fpm. PU wt. 64K. Pump 100% FW @ 4.0 bpm return rate of 4.0 bpm. CP – 7,800. WH - 1,300. Continue pumping capacity sweeps with POP &amp; FR as needed while POOH.</div> <div>RU/RD Equipment : 22:25 Hrs - Bump up @ surface. SI well. Lay down and inspect BHA. RDMO Conquest CT and all associate equipment.</div> <div>RU/RD Equipment : 03:00 Hrs - Prep to Flowback well. RD OPG 3" iron, RU OPG 2" iron for flowback.</div> <div>SICP: 1,450 psi.</div> <div>SIAP: 550 psi.</div> <div>06:00 Hrs - Prep'g to open well for 48 hour flowback at report time.</div> <div>Operational Note : Production Facility 95% Completed,</div> <div>JSA's = 10</div> <div>Spills = 0</div> <div>Incidents = 0</div> <div>Hot Work Permit = 0</div> <div>Stop Work Authority = 0</div> <div>Confined Space Entry = 0</div> <div>Cement Blocks = 28, 29, 31, 33, 38, &amp; 41</div> <div>Day Time Consultants = Donny Selman</div> <div>Night Time Consultant = John Wayne Bailey</div> <div>Weather : Current: 71 degrees. Clear. S winds 4 mph.</div> <div>Forecast: Sunny. High 107 degrees. Winds SW 10 - 15 mph.</div>	





420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #38</b> <b>6/2/2018</b>  Daily Cost :        \$24,475 Cum Cost :    \$11,734,878		<p>No Activity/SDFN : 06:00 Hrs.- Well shut in and secure.</p> <p>SICP- 1,800 psi SIAP- 100 psi Safety Meeting : 07:00 Hrs.- Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Traffic on Location and Using Spotters, Designated Smoking Areas, Communication, Complacency, Muster Point, Crane Ops/Suspended Loads, Pressurized Well/Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Rattle Snakes, Speeding on Lease Roads, Heat and Hydration. RU/RD Equipment : 07:30 Hrs.- MIRU Reach WL unit and support equipment. Wireline Gravity : 11:00 RIH w/ 5.97" GR/JB(verify measurements). BHA as follows: Cablehead w/ 1.0" fishing neck(1.44'); 3.125" CCL(1.20'); (2) 3.125" In Line Weight Bars(14.00'); 4.0" #20 Junk Basket(6.22'); 5.97" Gauge Ring(.20'). Tagged at 5,372'. hung up and pulled 800 over line weight waited and tool came free. POOH and found gouge mark on gauge ring. Contacted field superintendent and was advised to run smaller gauge ring. RIH with 5.88" gauge ring and went to liner top with no issues. POOH found basket clean. Called in and was told to run back in with 5.97" gauge ring. Changed gauge ring and RIH. Tagged liner top no issues. POOH. Had some drag coming off of bottom. Pulled to 8,200' and ran out of grease on pressure trailer. Stopped to fill grease tank Waiting-Orders/Equip : 16:00 Hrs.- Reach grease unit ran out of grease. Transferred grease from truck. Air compressor on truck would not keep up. Had to start and stop several times. Had grease sent out from Reach yard in Midland.</p> <p>Transferred grease to tank and POOH. Will Have to wait for grease from Midland before next run. Wireline Gravity : 17:30 Hrs.- Continue OOH with Junk basket/Gauge ring. Waiting-Orders/Equip : 18:30 Hrs. Waiting on grease from Reach yard in Midland. Wireline Gravity : 19:15 Hrs.- RIH w/ 5.97" GR/JB(verify measurements). BHA as follows: Cablehead w/ 1.0" fishing neck(1.44'); 3.125" CCL(1.20'); (2) 3.125" In Line Weight Bars(14.00'); 4.0" #20 Junk Basket(6.22'); 5.97" Gauge Ring(.20'). Tagged at liner top at 10,037' WLM. Wireline Gravity : 20:30 Hrs.- PU/RIH w/ Cablehead w/ 1" fishing neck(1.00'); 3.13" Quick Change (.97'); Baker 20 Setting Tool(5.72'); 5.90 OD Halliburton 10K Versa Set Pkr with 2.313" Profile Nipple, (1) 10 foot sub 2 7/8 6.5# L 80, XN Nipple 2.313" W/ 2.205" NO/GO, (TTS) Magnum Dual glass disc(10K X 10K) w/WLEG. Correlate to MJ @ 9,668'. RIH to packer setting depth. 23:15 Hrs.- Set packer @ 10,005' center element. Bottom @ 10,027'</p> <p>Set packer with 1,750 psi on well. Fluid level not seen. RU/RD Equipment : 00:00 Hrs- Open well to FB tanks on 12/64 choke to bleed off casing. RDMO Reach WL unit and support equipment. No Activity/SDFN : 03:00 Hrs.- Well open to FB tank. OPG Monitoring packer integrity.</p> <p>CP- 0 psi SIAP- 100 psi Operational Note : Production facility +/- 95% complete Flow lines in place. JSA's= 3 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Weather: Current: 68 degrees. Clear. NW wind 5 mph Forecast: Clear. Highs in upper 100's. NW winds 10-15 mph.</p>



420141-009.01      WARWINK UNIVERSITY 18-34-33 UNIT 1H		Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		
<b>AFE : 2618002</b> <b>Completion Rpt #39</b> <b>6/3/2018</b>  Daily Cost :        \$78,684 Cum Cost :    \$11,813,561		No Activity/SDFN : 06:00 Hrs.- Well open to FB tank. OPG monitoring packer integrity.  CP- 0 psi SIAP- 100 psi Safety Meeting : 06:30 Hrs.- Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Traffic on Location and Using Spotters, Designated Smoking Areas, Communication, Complacency, Muster Point, Crane Ops/Suspended Loads, Pressurized Well/Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Rattle Snakes, Speeding on Lease Roads, Heat and Hydration. RU/RD Equipment : 07:30 Hrs.- ND Cimarex Frac stack leaving bottom master valve. NU Key 7 1/16" 5K X 7 1/16"" 10K spool and 7 1/16" 5K X 3 1/2"" hydraulic BOP. NU 7 1/16" 5K Annular BOP. Function test BOPs/Annular. MIRU C&J completion rig. Spot LD machine and pipe racks. Receive, rack and tally 314 jts. of 2-7/8"6.5# L-80 Tubing. Garrison Bro's CVD all jts.  Note: C&J laydown machine had hydraulic issue RD truck went to get another one. Waiting-Orders/Equip : 18:00 Hrs.- Waiting on replacement LD machine. RU/RD Equipment : 20:30 Hrs.- Replacement LD machine AOL. Spot and RU. No Activity/SDFN : 21:15 Hrs.- Well open to FB tank. OPG monitoring packer integrity.  CP- 0 psi SIAP- 0 psi No Activity/SDFN : 06:00 Hrs.- Well open to FB tank. OPG monitoring packer integrity.  CP- 0 psi SIAP- 0 psi Operational Note : Production facility +/- 95% complete Flow lines in place. JSA's= 3 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0  Weather : Weather: Current: 79 degrees. Cloudy. N wind 15 mph Forecast: Cloudy. Highs in upper 90's. E winds 15-20 mph



<b>420141-009.01</b>	<b>WARWINK UNIVERSITY 18-34-33 UNIT 1H</b>	Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		

<b>AFE : 2618002</b> <b>Completion Rpt #40</b> <b>6/4/2018</b>  Daily Cost :       \$9,923 Cum Cost :    \$11,823,484	<p>No Activity/SDFN : 06:00 Hrs.- Well open to FB tank. OPG monitoring packer integrity.</p> <p>CP- 0 psi SIAP- 100 psi Waiting-Orders/Equip : 07:00 Hrs.- All vendors on location. Waiting on Weatherford spooling trailer to arrive. Hotshot bringing trailer had blowout.</p> <p>10:10 Trailer AOL Safety Meeting : 10:15 Hrs.-Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Traffic on Location and Using Spotters, Designated Smoking Areas, Communication, Complacency, Muster Point, Crane Ops/Suspended Loads, Pressurized Well/Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Rattle Snakes, Speeding on Lease Roads, Heat and Hydration. RU/RD Equipment : 10:15 Hrs.- MIRU Weatherford dual line spooling trailer. Make up gauge on line. Tripping : 10:45 Hrs.-PU Halliburton on/off tool, 1 JT 2-7/8" tubing, mandrel for capillary string, 1 JT 2-7/8" tubing, Weatherford downhole pressure gauge mandrel, gauge data control line (1) &amp; capillary string (1). Ran in tandem clamping DHG data line &amp; control line w/ (1) cross coupling cannon clamp over each coupling. Hang sheaves. Install Flowco GLV's per design. TIH</p> <p>314 jts 2-7/8" 6.5# L-80 tubing on location. 114 jts 2-7/8" 6.5# L-80 tubing on racks. 200 jts 2-7/8" 6.5# L-80 tubing in hole. 0 jts 2-7/8" 6.5# L-80 tubing in derrick No Activity/SDFN : 20:00 Hrs.- Well open to FBtank. OPG monitoring packer integrity.</p> <p>CP- 0 psi SIAP- 100 psi No Activity/SDFN : 06:00 Hrs.- Well open to FBtank. OPG monitoring packer integrity.</p> <p>CP- 0 psi SIAP- 100 psi Operational Note : Production facility +/- 95% complete Flow lines in place. JSA's= 4 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Weather: Current: 70 degrees. Partly cloudy. ESE wind 13 mph Forecast: Clear. Highs in 100's. SE winds 10 mph.</p>
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420141-009.01	WARWINK UNIVERSITY 18-34-33 UNIT 1H	Ward, TX
Spud Date : 02/19/2018		Sec/TS/Range : 34/BLK 18/
Prop Depth : 21,699		
API : 42-475-37258-00-00		

<b>AFE : 2618002</b> <b>Completion Rpt #41</b> <b>6/5/2018</b>  Daily Cost :     \$114,194 Cum Cost :    \$11,942,496	<p>No Activity/SDFN : 06:00 Hrs.- Well open to FB tank. OPG monitoring packer integrity. Safety Meeting : 07:00 Hrs.- Safety Meeting with all Vendors, Topics: Stop Work Authority, Hazard Identification, JSA's, PPE/FRC's, Traffic on Location and Using Spotters, Designated Smoking Areas, Communication, Complacency, Muster Point, Crane Ops/Suspended Loads, Pressurized Well/Lines/Valves, Trapped Pressure, Escape routes, Spill Control/Reporting, Rattle Snakes, Speeding on Lease Roads, Heat and Hydration. Tripping : 07:30 Hrs.- Resume TIH W/ Halliburton on/off tool, Weatherford downhole pressure gauge mandrel, chemical injection mandrel, cap tbg, control line, 2-7/8" tbg and Flowco GLV's. Clamping capillary tbg and control line w/ (1) cable protector cannon clamp over each coupling. Latch top of packer @ 10,005' WLM. Pull 15K over string weight. Measure to space out tbg for 5K compression. Release from and PU above packer.</p> <p>314 jts 2-7/8" 6.5# L-80 tubing on location. 11 jts 2-7/8" 6.5# L-80 tubing on racks. 303 jts 2-7/8" 6.5# L-80 tubing in hole. 0 jts 2-7/8" 6.5# L-80 tubing in derrick Waiting-Orders/Equip : 11:15 Hrs.- Waiting on 5 micron filter pod. Circ/Displace : 11:15 Hrs.- RU C&amp;J pump truck to tbg. Pump 280 bbls 2% KCL &amp; Omega packer followed by 60 bbls FW filtered thru 5 micron filter, leaving 21 bbls packer fluid in tbg.</p> <p>Detailed Report : 16:30 Hrs.- RD pump truck from tbg. Make up Downing tubing hanger. Terminate Capillary tubing and data line in tubing hanger. Land tbg w/ 7K wt. Detailed Report : 18:00- ND Key spool and BOP's. ND Cimarex master FV. NU Downing 2 9/16" 5K tree w/ Downing 7-1/16" landing flange. Test seals to 5K. Good test. Make connections for WFT BHP monitoring equipment and chemical injection. RU/RD Equipment : 20:30 Hrs.- RDMO C&amp;J completion rig. MIRU Precision SL unit. Detailed Report : 21:30 Hrs.- RU Precision SL lube and C&amp;J pump to tree RIH. Stop @ 9,900' for weight check and pressure test. PU weight 400#. Pressure up to 2500 psi ( packer set with 1,750 psi). Hold 5 minutes to check ON/OFF seals and GLVs. Good test. RIH- tag disk at 10019 WLM rupture disk and repeat 4 times to ensure disk is gone. POOH. At surface pump 5 bbls to clear disk.SI well Flowback : 22:30- RU flowback to tree. Open well and adjust rate to 80 bph. Flow Wolfcamp A (12,050' – 21,543') via 2-7/8" 6.5# L-80 tbg to flowback tank. Last hour: FTP= 1,050 psi, 19/64" Choke, Water LH= 71 bbls, Oil LH= 0 bbls, DWR= 122 bbls, DOR= 0 bbls, CWR= 35,987 bbls, COR= 206 bbls, TLTR= 528,279 bbls, LLTR= 492,292 bbls, % of Load Rec= 6.81%, Gas= 0 mcf. SICP- 0. SIAP- 100 psi. No Activity/SDFN : 01:00 Hrs.- Well shut in and secure.</p> <p>SITP- 1,050 psi SICP- 0 psi SIAP- 100 psi No Activity/SDFN : 06:00 Hrs. Well shut in and secure. Turn well over to production. To Ricky Jaramillo.</p> <p>SITP- 1050 psi SICP- 0 psi SIAP- 100 psi Operational Note : Production facility +/- 95% complete Flow lines in place. JSA's= 5 Spills= 0 Incidents= 0 Hot Work Permit= 0 Stop Work Authority= 0 Confined Space Entry = 0</p> <p>Weather : Weather: Current: 73 degrees. Clear. SSE wind 4 mph Forecast: Clear. Highs in 100's. SW winds 10 mph.</p>
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