

EP WELLS DAILY OPERATIONS REPORT

Report 21

12/03/2017

| | |
|---------------|--------------------------|
| Company | PERMIAN |
| Well Type | Development |
| Well | UNIVERSITY 19 D 0904H |
| Wellbore | UNIVERSITY 19 D 0904H |
| WBS No/API No | 30266560 / 4230133226.00 |

Event Summary

| | | | | | |
|------------|---------------------|--------------------|------------------|------------------|-------|
| Event Type | Completion only | Event Start Date | 10/31/2017 | Days on Location | 21.00 |
| Objective | Install Completion | Original Spud Date | 06/19/2017 | | |
| Est. Days | 65.00 | Contractor | PERMIAN WELL SVC | | |
| Work Unit | PERMIAN COMPLETIONS | Days To Release | | | |
| | | Rig Phone/FAX No. | | | |

Well Status

| | | | |
|------------------------------------|-----------------------------------|--------------------------|---|
| Supervisor | Andrew Veroba | Measured Depth(ft) | |
| Engineer | Bobby Ramos | TVD(ft) | |
| Other Supervisor | M. Hank Persaud / Brett Oldenkamp | 24 Hr Progress(ft) | |
| Depth Ref/Grd Elev/Water Depth(ft) | DFE: 2,799.10 / 2,771.10 | Hole size(in) | |
| THF Datum | | | |
| Daily NPT(hr/%) | 0/0 | Last Casing MD | |
| Days Ahd(-) Bhnd(+)(50/50) | | Next Casing MD | |
| Actual cost to date/AFE | 1,846,510/3,746,244.00 | Current MW / BH EMW(ppg) | / |
| Actual divided by AFE | 0.49 | LOT/FIT EMW(ppg) | |
| Daily Cost | 272,364 | Lithology | |
| | | Formation/MD Top | |

HSE Summary

| Last Incident | Date | Days | Last Incident | Date | Days | KPI's | |
|---|------|------|--|------|------|--|--|
| LWC RWC MTC FAC Last casing pressure test | | | PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review | | | TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi) | |
| Safety Comments: | | | | | | | |
| Total hours: 1178 | | | | | | | |

HSE Drills

| Drills/Tests | Date | Days Since Last | | |
|---|------|-----------------|--|----|
| Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test | | | JSA's/Toolbox Talks Days Since Last Drill | 20 |

Operations Summary

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|--------------------------|
| 24 Hour Summary |
| Frac stages 21-24. |
| Update Since Report Time |
| Frac stage 25. |
| 24 Hour Forecast |
| Frac stages 25-27. |

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Time Summary

| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Rig Rate | Description |
|-------|-------|------|-----|--------|-----------------------|--------------|-------------|---|
| 0:00 | 0.58 | FRAC | WLF | | | 0 | | WOCO. |
| 0:35 | 1.50 | FRAC | FRT | | | 0 | | <p>Stage 21 Summary University 19 D 0904H Interval 14746 - 14882 Open Well Pressure 4,423 psi Max Treating Pressure 9,255 psi Max Slurry Rate 61.0 bpm Average Treating Pressure 8,664 psi Average Slurry Rate 54.6 bpm Breakdown Pressure 7,724 psi Breakdown Rate 9.4 bpm Breakdown Volume 307 gal Avg HHP 11,594 hp Final ISIP 5,602 psi Frac Gradient 0.914 psi/ft Pad Volume 2,352 gal Main Body Volume 170,502 gal Flush Volume 25,872 gal 100 MAZ Sand Pumped 0 lbs 100 M Brown Sand Pumped 111,740 lbs 100 M Sand Pumped 308,040 lbs Proppant in Formation 419,780 lbs Avg Proppant Concentration 3.14 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,118 bbls Load to Recover w/o Acid 4,113 bbls 15% HCL Spearhead 200 gal Slickwater Fluid Pumped 3,975 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 58 bbls pump down rate 10.0 bpm Max pump down pressure 6,580 psi Fluid Temp 72.0 ?F Total Pump Time 1:26 hr:min Pumps Lost During Job 0 Treatment Start Time 0:38 0:00 0:00 Treatment End Time 2:04 0:00 0:00 Diverter Slurry bbls</p> <p>- Proppant was pumped with a ramp of 0.50 - 3.00 PPA, then steps of 3.00 PPA, 3.50 PPA, 4.00 PPA. - Ran 300 gal of 15% HCl - Ran 2 shots of gel with a 20 bbl spacer. - A ball in place plug was utilized.</p> <p>Time for Prop on Perfs 17.0 minutes Time between Stages (TBF) 0:37 Hours/min</p> |
| 2:05 | 0.25 | FRAC | FWL | | | 0 | | WOCO. |
| 2:20 | 0.23 | FRAC | FWL | | | 0 | | Handover from frac to wireline. Pick up lubricator. Remove night cap. PU tools. Stab lubricator. Fill lubricator. Pressure test lubricator to 8000 psi |
| 2:34 | 1.60 | FRAC | WLT | | | 0 | | <p>Open well with 5100 psi. RIH. "Stage #22 Plug and Perf RIH with (4) 1' Keane guns: 2.75" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite frac plug. Tie into liner top @ 10990'. Bring on pumps at 11450'. Pump down as follows: 3 bpm @ 4300 psi 6 bpm @ 4900 psi 10 bpm @ 5000 psi Max:10 bpm. Max: 6650 psi.</p> <p>Set plug @ 14726' Perforate as follows:</p> |

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| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Rig Rate | Description |
|-------|-------|------|-----|--------|--------------------|-----------|----------|---|
| | | | | | | | | 14701' - 14702' 14656' - 14657' 14611' - 14612' 14566' - 14567' Stabilized pressure after perforating: 5250 psi Pump down volume: 58 bbl" POOH Shut in well with 4700 psi. Bleed off. |
| 4:10 | 0.17 | FRAC | WLF | | | 0 | | Break lubricator. All shots fired. MU night cap. LD tools and stand lubricator. Secure crown and wing valves. Handover from WL to Frac. |
| 4:20 | 1.62 | FRAC | WLF | | | 0 | | WOCO. |
| 5:57 | 1.32 | FRAC | WLF | | | 0 | | Perform maintenance on pumps 3 and 11 while wireline moves off 910 well, performs re-head and moves onto the 903 well. |
| 7:16 | 0.80 | FRAC | WLF | | | 0 | | Well handed over from wireline with 200 ft gun check. Maintenance near completion. Prime pumps and pressure test. Leak in bleed down line valves, were greased yesterday on same issue. Change out valves and re-test. Equalize and open well. |
| 8:04 | 1.48 | FRAC | FRT | | | 0 | | <p>Stage 22 Summary University 19 D 0904H Interval 14566 - 14702 Open Well Pressure 4,301 psi Max Treating Pressure 8,971 psi Max Slurry Rate 61.1 bpm Average Treating Pressure 8,596 psi Average Slurry Rate 55.4 bpm Breakdown Pressure 8,644 psi Breakdown Rate 18.6 bpm Breakdown Volume 252 gal Avg HHP 11,672 hp Final ISIP 5,486 psi Frac Gradient 0.905 psi/ft Pad Volume 1,638 gal Main Body Volume 179,844 gal Flush Volume 25,914 gal 100 MAZ Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M Sand Pumped 420,860 lbs Proppant in Formation 420,860 lbs Avg Proppant Concentration 2.87 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,340 bbls Load to Recover w/o Acid 4,340 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,202 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 58 bbls pump down rate 10.0 bpm Max pump down pressure 6,653 psi Fluid Temp 72.0 ?F Total Pump Time 1:28 hr:min Pumps Lost During Job 1 Treatment Start Time 8:04 0:00 0:00 Treatment End Time 9:32 0:00 0:00 Diverter Slurry bbls</p> <p>- Proppant was pumped with a ramp of 0.50 - 3.0 PPA, then steps of 3.0 PPA, 3.5 PPA, and 4.00 PPA. - Did not run acid this stage. - Ran 2 shots of gel with a 20 bbl spacer. - A ball in place plug was utilized. Pump 10086 was taken out for mechanical issues during the stage</p> |

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Wellbore UNIVERSITY 19 D 0904H

Time Summary

| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Rig Rate | Description |
|-------|-------|------|-----|--------|--------------------|-----------|----------|---|
| | | | | | | | | Time for Prop on Perfs 14.0 minutes Time between Stages (TBF) 2:08 Hours/min |
| 9:33 | 0.40 | FRAC | FWL | | | 0 | | Wait on concurrent operations. Grease UMW and rig wireline off the 903 well. |
| 9:57 | 0.22 | FRAC | FWL | | | 0 | | Hoist gun/plug into lubricator. Remove night cap. Stab and fill lubricator. Pressure test PCE to 8kpsi. |
| 10:10 | 1.47 | FRAC | WLT | | | 0 | | Open well with 5000 psi and RIH. Conduct switch checks at 200'. Stage 23 Plug and Perf RIH with (4) 1' Keane guns: 2.75" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Tie into liner top @ 10,990'. Bring on pumps at 11,445'. Pump down as follows: 3bpm @ 4597 psi 6bpm @ 4930 psi 10bpm @ 5300 psi Max pressure = 5900 Set plug @ 14,546ft Perforate as follows: 14,521' – 14,522' 14,476' – 14,477' 14,431' – 14,432' 14,386' – 14,387' Stabilized pressure after perf: 5106 psi Pump down volume: 58 bbl POOH. |
| 11:38 | 0.12 | FRAC | GRS | | | 0 | | Bump up and grease UMW |
| 11:45 | 0.17 | FRAC | WLF | | | 0 | | SIW @ 4600 psi. Bled off pressure and break lubricator/BOP's. Lowered Perf guns out of lubricator and confirmed all shots fired. N/U nightcap and close crown valve. L/D perf guns and setting tool. Greased LMV. Ready for frac. |
| 11:55 | 3.00 | FRAC | WLF | | | 0 | | Wait on concurrent operations. |
| 14:55 | 1.23 | FRAC | FRT | | | 0 | | Stage 23 Summary University 19 D 0904H Interval 14386 - 14522 Open Well Pressure 4,254 psi Max Treating Pressure 9,182 psi Max Slurry Rate 60.5 bpm Average Treating Pressure 8,470 psi Average Slurry Rate 55.5 bpm Breakdown Pressure 8,474 psi Breakdown Rate 14.4 bpm Breakdown Volume 336 gal Avg HHP 11,522 hp Final ISIP 5,390 psi Frac Gradient 0.896 psi/ft Pad Volume 1,596 gal Main Body Volume 172,158 gal Flush Volume 25,704 gal 100 MAZ Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M Sand Pumped 415,680 lbs Proppant in Formation 415,680 lbs Avg Proppant Concentration 2.98 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,157 bbls Load to Recover w/o Acid 4,157 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,019 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 58 bbls pump down rate 10.0 bpm Max pump down pressure 5,900 psi Fluid Temp 72.0 ?F |

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Wellbore UNIVERSITY 19 D 0904H

Time Summary

| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Rig Rate | Description |
|-------|-------|------|-----|--------|--------------------|-----------|----------|--|
| | | | | | | | | <p>Total Pump Time 1:14 hr:min Pumps Lost During Job 0 Treatment Start Time 14:55 0:00 0:00 Treatment End Time 16:09 0:00 0:00 Diverter Slurry bbls</p> <p>- Proppant was pumped with a ramp of 0.50 - 3.50 PPA, then steps of 3.50 PPA, and 4.00 PPA. - Did not run acid this stage. - Ran 2 shots of gel with a 20 bbl spacer. - A ball in place plug was utilized</p> <p>Time for Prop on Perfs 15.0 minutes Time between Stages (TBF) 0:37 Hours/min</p> |
| 16:09 | 0.25 | FRAC | FWL | | | 0 | | SIW and wait on concurrent operations. Grease and rig wireline off the 903 well. |
| 16:24 | 0.17 | FRAC | FWL | | | 0 | | Hoist gun/plug into lubricator. Remove night cap. Stab and fill lubricator. Pressure test PCE to 8kpsi. |
| 16:34 | 2.00 | FRAC | WLT | | | 0 | | <p>Open well with 5150 psi and RIH. Conduct switch checks at 200'. Stage 24 Plug and Perf RIH with (4) 1' Keane guns: 2.75" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Tie into liner top @ 10,990'. Bring on pumps at 11,600'. Pump down as follows: 3bpm @ 5100 psi 6bpm @ 5200 psi 10bpm @ 5800 psi Max pressure = 6200</p> <p>Set plug @ 14,366ft Perforate as follows: 14,341' – 14,342' 14,296' – 14,297' 14,251' – 14,252' 14,206' – 14,207' Stabilized pressure after perf: 5300 psi Pump down volume: 54 bbl POOH.</p> |
| 18:34 | 0.15 | FRAC | WLF | | | 0 | | Shut in well with 4750 psi. Bleed off. Break lubricator. All shots fired. MU night cap. LD tools. Secure crown and wing valves. Handover from WL to Frac. |
| 18:43 | 2.53 | FRAC | WLF | | | 0 | | WOCO. |
| 21:15 | 1.08 | FRAC | FRP | | | 0 | | Continue maintenance from re-head. Prime. Pressure test to 9,500 psi. |
| 22:20 | 1.37 | FRAC | FRT | | | 0 | | <p>Stage 24 Summary University 19 D 0904H Interval 14206 - 14342 Open Well Pressure 4,260 psi Max Treating Pressure 9,242 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,593 psi Average Slurry Rate 53.3 bpm Breakdown Pressure 7,436 psi Breakdown Rate 9.4 bpm Breakdown Volume 328 gal Avg HHP 11,226 hp Final ISIP 5,536 psi Frac Gradient 0.909 psi/ft Pad Volume 1,987 gal Main Body Volume 160,159 gal Flush Volume 25,620 gal 100 M AZ Sand Pumped 94,020 lbs 100 M Brown Sand Pumped 0 lbs</p> |

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Wellbore UNIVERSITY 19 D 0904H

Time Summary

| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Rig Rate | Description |
|--------------|--------------|------|-----|--------|--------------------|-----------|----------|---|
| | | | | | | | | 100 M Sand Pumped 325,600 lbs Proppant in Formation 419,620 lbs Avg Proppant Concentration 3.33 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,867 bbls Load to Recover w/o Acid 3,867 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,733 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 54 bbls pump down rate 10.0 bpm Max pump down pressure 6,200 psi Fluid Temp 72.0 ?F Total Pump Time 1:22 hr:min Pumps Lost During Job 0 Treatment Start Time 22:20 0:00 0:00 Treatment End Time 23:42 0:00 0:00 Diverter Slurry bbls - Proppant was pumped with a ramp of 0.50 - 3.50 PPA, then steps of 3.50 PPA, 4.00 PPA. - Did not run acid this stage. - Ran 2 shots of gel with a 20 bbl spacer. - A ball in place plug was utilized Time for Prop on Perfs 17.0 minutes Time between Stages (TBF) 0:52 Hours/min |
| 23:42 | 0.22 | FRAC | FWL | | | 0 | | WOCO. |
| 23:55 | 0.08 | FRAC | FWL | | | 0 | | Handover from frac to wireline. Pick up lubricator. Remove night cap. PU tools. |
| Total | 24.00 | | | | | | | |

06.00 Update

| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Description |
|-------|-------|------|-----|--------|--------------------|-----------|--|
| 0:00 | 0.13 | FRAC | FWL | | | 0 | Handover from frac to wireline. Pick up lubricator. Remove night cap. PU tools. |
| 0:08 | 1.72 | FRAC | WLT | | | 0 | Open well with 4750 psi. RIH. "Stage #25 Plug and Perf RIH with (4) 1' Keane guns: 2.75" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite frac plug. Tie into liner top @ 10990'. Bring on pumps at 11550'. Pump down as follows: 3 bpm @ 4300 psi 6 bpm @ 4500 psi 10 bpm @ 5000 psi Max:10 bpm. Max: 6000 psi. Set plug @ 14186' Perforate as follows: 14161' - 14162' 14116' - 14117' 14071' - 14072' 14026' - 14027' Stabilized pressure after perforating: 4750 psi Pump down volume: 45 bbl" POOH Shut in well with 4250 psi. Bleed off. |
| 1:51 | 0.13 | FRAC | WLF | | | 0 | Break lubricator. All shots fired. MU night cap. LD tools and stand lubricator. Secure crown and wing valves. Handover from WL to Frac. |

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Well UNIVERSITY 19 D 0904H
Wellbore UNIVERSITY 19 D 0904H

06.00 Update

| Start | Hours | PH | OPN | Detail | Drilled Depth (ft) | NPT level | Description |
|-------|-------|------|-----|--------|-----------------------|--------------|-------------|
| 1:59 | | FRAC | WLF | | | 0 | WOCO. |