

Well Name: UNIVERSITY 10 2703H
Job: Fracture Treatment, 6/8/2017 23:03

Job Category Completion/Workover	Primary Job Type Fracture Treatment	Secondary Job Type	Status 1 In Progress
Start Date 6/8/2017 23:03	End Date		

Objective

Summary

Contractor Schlumberger	Rig Number	Rig Type STIM CREWSS
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6/8/2017 06:00 - 6/9/2017 06:00

Operations Summary
Open toe sleeve. Set RBP @ 7035'. Due to frac stack having leak. ND frac stack and replace ring gasket. PSI test stack to 8000# (GOOD)

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:15	0.25	SMTG	Safety Meeting	Held safety meeting.
06:15	07:30	1.25	SRIG	Rig Up/Down	RU iron to well.
07:30	07:45	0.25	PTST	Pressure Test	PSI test lines to 8500 PSI (GOOD).
07:45	09:00	1.25	GOP	General Operations	PSI toe sleeve to 4945 PSI and hold for 5 minutes (GOOD). PSI to 7539 and opened sleeve. Established rate an pumped 2000 gals of 15% HCL.
09:00	12:00	3.00	DTIM	Downtime	Leak started between TBG head and bottom valve while we were displacing acid. Torqued down flange in attempt to stop leak. No visible leaks.
12:00	14:00	2.00	inactive	inactive	Opened up toe sleeve on 2704H
14:00	14:30	0.50	SRIG	Rig Up/Down	RU iron back to the 2703H
14:30	16:30	2.00	DTIM	Downtime	Renegades computer in WL truck turned off and would not turn back on.
16:30	18:15	1.75	CTUW	W/L Operation	Attempted to pump down WL guns. As PSI increased leak formed again. POOH with WL.
18:15	21:15	3.00	inactive	inactive	RIH with WL on 2704H and perf stage 1 .
21:15	22:45	1.50	RBP	Run Retrievable Bridge Plug	RIH with RBP and set @ 7035'. Blow down well.
22:45	23:45	1.00	SRIG	Rig Up/Down	RD Renegade WL.
23:45	02:15	2.50	DTIM	Downtime	Wait for crane and valve to replace on frac stack.
02:15	05:15	3.00	SRIG	Rig Up/Down	ND frac stack, Replace bottom valve and ring gasket. NU frac stack.
05:15	05:45	0.50	PTST	Pressure Test	PSI stack to 7500# for 20 minutes (GOOD). blow down well.

6/9/2017 06:00 - 6/10/2017 06:00

Operations Summary
Retrieve RBP, Spot equipment and RU zipper manifold.

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	09:00	3.00	inactive	inactive	Wait on WL to AOL.
09:00	10:30	1.50	SRIG	Rig Up/Down	MIRU Renegade WL.
10:30	13:15	2.75	CTUW	W/L Operation	TIH to RBP @ 7035'. Latch on and jar free. POOH slowly due to pulling heavy.
13:15	15:00	1.75	SRIG	Rig Up/Down	RDMO Renegade WL
15:00	16:30	1.50	SRIG	Rig Up/Down	RU Spartan Zipper manifold
16:30	06:00	13.50	19	Waiting on	Wait for Schlumberger Frac to MIRU

6/10/2017 06:00 - 6/11/2017 06:00

Operations Summary
MIRU Frac Equipment, Spot Crane ,Preload Sand Movers

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	07:30	1.50	19	Waiting on	Waiting on Frac equipment and Crane
07:30	11:30	4.00	19F	Equipment Arrival	Schlumberger started spotting equipment
11:30	18:00	6.50	SRIG	Rig Up/Down	start rigging up Frac iron to the Goat Head while waiting for more equipment to arrive, Spot Crane, Start offloading sand for Pre-load
18:00	20:00	2.00	GOP	General Operations	Day shift left location , well site secure
20:00	06:00	10.00	SRIG	Rig Up/Down	Night shift showed up to continue MIRU of Frac equipment

6/11/2017 06:00 - 6/12/2017 06:00

Operations Summary
Finish Frac rig up / prime up and pressure test

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	21:30	15.50	SRIG	Rig Up/Down	finish rigging up all frac equipment and associated services
21:30	23:15	1.75	PTST	Pressure Test	prime up and pressure test all frac iron and zippermanifold/frac stacks pressure tested to 9500 psi held for 10 min only lost 306 psi in 10 min
23:15	00:15	1.00	PTST	Pressure Test	prime up pumpdown pumps and pressure test iron against flow-x pressure test to 9500 psi
00:15	05:30	5.25	GOP	General Operations	continue finishing rig up ,bucket test chemicals and perform all QA/QC
05:30	06:00	0.50	SMTG	Safety Meeting	hold pre-job safety meeting with all the vendors on location

6/12/2017 06:00 - 6/13/2017 06:00

Operations Summary
Begin Frac

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	HELD PJSM ON PPE, SLIP/TRIP/FALL HAZARDS, PRESSURIZED/ENERGIZED LINES QND EQUIPMENT
06:30	09:30	3.00	inactive	inactive	RU AND PRESSURE TEST LUBRICATOR AND STACK.
09:30	13:30	4.00	PFRT	Perforating	STG 1. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CBP TO 16,386' AND SET. PRESSURE TEST 5 1/2" CSG TO 8,500 PSI, HELD 10 MINS- GOOD. PERF AS FOLLOWS: 16,371'- 373'; 16,334'- 336'; 16,297'- 299'; 16,260'- 271'. POOH W/ GUNS AND SETTING TOOL.'. FIRE GUNS. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 696 BBLs.
13:30	18:45	5.25	GOP	General Operations	WAIT ON SIMOPS

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
18:45	20:45	2.00	FRAC	Frac. Job	STG 1 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 16,257 - 16,369 W/ DESIGN: 350,977 GALS SLICKWATER, 25,000 LBS 100 MESH AND 100,020 LBS 40/70 AND 156,600 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,160 PSI / BREAK DOWN: 4,271 PSI AT 10 BPM. AVG PRESS 6,539 PSI / AVG RATE 90.9 BPM MAX PRESS 7,979 PSI / MAX RATE 96.6 BPM ISIP 2,862 PSI / FG .788 PSI/FT USED 1,000 GALS 15 % HCL ACID USED 8,356.6 BBLS CLEAN 100% PROP PLACED
20:45	23:15	2.50	GOP	General Operations	WAIT ON SIMOPS
23:15	01:30	2.25	PFRT	Perforating	STG 2. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 16237' AND SET. PERF AS FOLLOWS: 16109-16111', 16146-16148', 16183 - 16185', 16220 - 16222'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 376 BBLS.
01:30	03:30	2.00	FRAC	Frac. Job	STG 2 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 16,109' - 16,220' W/ DESIGN: 291,853 GALS SLICKWATER, 23,980 LBS 100 MESH AND 102,400 LBS 40/70 AND 156,380 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI:2,730 PSI / BREAK DOWN:4,181 PSI AT 15 BPM. AVG PRESS 6,191 PSI / AVG RATE 87.2 BPM MAX PRESS 7,974 PSI / MAX RATE 91.9 BPM ISIP 4,249 PSI / FG .96 PSI/FT USED 1,000 GALS 15 % HCL ACID USED 6,949 BBLS CLEAN 100% PROP PLACED
03:30	06:00	2.50	PFRT	Perforating	STG 3. RU E&P WIRELINE. ATTEMPTED TO PUMPDOWN WL. DUE TO HIGH PSI AND LOW RATE WE WERE NOT ABLE TO PUMP DOWN. POOH.

6/13/2017 06:00 - 6/14/2017 06:00

 Operations Summary
 Continue Frac OPs

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING WITH ALL VENDORS ON LOCATION
06:30	12:30	6.00	PFRT	Perforating	STG 3. RU E&P WIRELINE. ATTEMPTED TO PUMPDOWN WL. DUE TO HIGH PSI AND LOW RATE WE WERE NOT ABLE TO PUMP DOWN. POOH. PUMPED 500 BBLS TO TRY AND FLUSH LATERAL, NO SUCCESS. OPENED AND FLOWED WELL BACK @ 15 BPM, RECOVERED 635 BBLS. FLUSHED WELL W/ 500 BBLS @ 50 BPM. STG 4. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 16,095' AND SET. PERF AS FOLLOWS: 16,072'- 074'; 16,035'- 037'; 15,998'- 16,000'; 15,961'- 962'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 359 BBLS.
12:30	15:00	2.50	FRAC	Frac. Job	STG 3 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,961' - 16,072' FRAC W/: 290,430 GALS SLICKWATER, 22,980 LBS 100 MESH; 256,180 LBS 40/70 SAND DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI:2,227 PSI / BREAK DOWN: 4,034 PSI AT 15 BPM. AVG PRESS: 6,112 PSI / AVG RATE: 90.4 BPM MAX PRESS: 6,489 PSI / MAX RATE: 90.9 BPM ISIP: 2,975 PSI / FG: 80 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:6,915 BBLS CLEAN 100% PROP PLACED
15:00	18:00	3.00	PFRT	Perforating	STG 4. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15,941' AND SET. PERF AS FOLLOWS: 15,924'- 926'; 15,886'- 888'; 15,849'- 851'; 15,813'- 815'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 348 BBLS.
18:00	19:00	1.00	GOP	General Operations	GREASE WELLHEAD
19:00	21:30	2.50	FRAC	Frac. Job	STG 4 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,812' - 15,924" FRAC W/: 329,393 GALS SLICKWATER, 23,840 LBS 100 MESH; 106,080 LBS 40/70 SAND; 154,420 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,215 PSI / BREAK DOWN: 4,195 PSI AT 20 BPM. AVG PRESS: 5,965 PSI / AVG RATE: 89.8 BPM MAX PRESS: 7,159 PSI / MAX RATE: 90.7 BPM ISIP: 3,616 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7,842 BBLS CLEAN 100% PROP PLACED
21:30	00:45	3.25	PFRT	Perforating	STG 5. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15,792' AND SET. PERF AS FOLLOWS: 15,664'- 15666'; 15,701'- 703'; 15,738'- 740'; 15,775'- 777'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 338 BBLS.
00:45	03:30	2.75	FRAC	Frac. Job	STG 5 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,812' - 15,924" FRAC W/: 267,313 GALS SLICKWATER, 24,020 LBS 100 MESH; 105,200 LBS 40/70 SAND; 156,380 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,224 PSI / BREAK DOWN: 4,135 PSI AT 20 BPM. AVG PRESS: 6,141 PSI / AVG RATE: 90.1 BPM MAX PRESS: 7,420 PSI / MAX RATE: 90.5 BPM ISIP: 3,525 PSI / FG: 0.87 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:6,364 BBLS CLEAN 98% PROP PLACED SCREENED OUT 43 BBLS FROM THE END OF FLUSH , FLOWED BACK 475 BBLS AND FLUSHED WELL AT 60 BPM AT 6,600 PSI
03:30	06:00	2.50	PFRT	Perforating	STG 6. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15,644' AND SET. PERF AS FOLLOWS: 15,516'- 15518'; 15,553'- 555'; 15,590'- 592'; 15,627'- 629'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 350 BBLS.

Well Name: UNIVERSITY 10 2703H
6/14/2017 06:00 - 6/15/2017 06:00

 Operations Summary
 Frac Stages 6-9
 Perf stages 7-9

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	10:00	4.00	DTIM	Downtime	WAIT ON ADJACENT WELL OPS
10:00	12:30	2.50	DTIM	Downtime	SLB PUMP MAINTAINANCE
12:30	15:15	2.75	FRAC	Frac. Job	STG 6 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,516' - 15,629' FRAC W/: 388,122 GALS SLICKWATER, 24,080 LBS 100 MESH; 107,080 LBS 40/70 SAND; 154,040 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,170 PSI / BREAK DOWN: 4,183 PSI AT 15 BPM. AVG PRESS: 6,594 PSI / AVG RATE: 86.1 BPM MAX PRESS: 7,420 PSI / MAX RATE: 91.2 BPM ISIP: 3,436 PSI / FG: 0.86 PSI/FT USED 2,000 GALS 15 % HCL ACID USED:9,241 BBLs CLEAN 100% PROP PLACED
15:15	18:45	3.50	PFRT	Perforating	STG 7. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15,496' AND SET. PERF AS FOLLOWS: 15,479'- 481'; 15,442'-444'; 15,405'- 407'; 15,368'-370'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 315 BBLs.
18:45	20:30	1.75	FRAC	Frac. Job	STG 7 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,367' - 15,479' FRAC W/: 270,522 GALS SLICKWATER, 24000 LBS 100 MESH; 111080 LBS 40/70 SAND; 144530 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2192 PSI / BREAK DOWN: 4248 PSI AT 20 BPM. AVG PRESS: 5944 PSI / AVG RATE: 90.1 BPM MAX PRESS: 6742 PSI / MAX RATE: 90.6 BPM ISIP: 3578 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:6,441 BBLs CLEAN 100 % PROP PLACED
20:30	22:45	2.25	PFRT	Perforating	STG 8. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15347' AND SET. PERF AS FOLLOWS: 15,219'- 15221'; 15,256'- 258'; 15,293'- 295'; 15,330'- 332'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 325 BBLs.
22:45	01:45	3.00	FRAC	Frac. Job	STG 8 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,219'-15,330' FRAC W/: 301350 GALS SLICKWATER, 24000 LBS 100 MESH; 103700 LBS 40/70 SAND; 154900 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2272 PSI / BREAK DOWN: 4407 PSI AT 20 BPM. AVG PRESS: 6059 PSI / AVG RATE: 90.0 BPM MAX PRESS: 7196 PSI / MAX RATE: 90.5 BPM ISIP: 3810 PSI / FG: 0.91 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7175 BBLs CLEAN 98% PROP PLACED SCREENED OUT ON 1.75 30/50 35 BBLs FROM THE END OF FLUSH , FLOWED BACK 400 BBLs AND FLUSHED WELL AT 55 BPM AT 7100 PSI
01:45	04:30	2.75	PFRT	Perforating	STG 9. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15199' AND SET. PERF AS FOLLOWS: 15,071'- 15073'; 15,108'- 110'; 15,145'- 147'; 15,182'- 184'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 327 BBLs.
04:30	06:00	1.50	FRAC	Frac. Job	STG 9 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 15,071'-15,182' FRAC W/: 292,530 GALS SLICKWATER, 24,100 LBS 100 MESH; 105,320 LBS 40/70 SAND; 156,310 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,180 PSI / BREAK DOWN: 4,389 PSI AT 15 BPM. AVG PRESS: 6059 PSI / AVG RATE: 90.0 BPM MAX PRESS: 7196 PSI / MAX RATE: 90.5 BPM ISIP: 3810 PSI / FG: 0.91 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7175 BBLs CLEAN 100 % PROP PLACED

6/15/2017 06:00 - 6/16/2017 06:00

 Operations Summary
 Frac Stages 10 - 12
 Perf Stages 10 - 12

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING
06:30	09:30	3.00	PFRT	Perforating	STG 10. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 15,051' AND SET. PERF AS FOLLOWS: 15,034'- 036'; 14,997'- 999'; 14,960'- 962'; 14,924'- 926'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 309 BBLs.
09:30	12:15	2.75	FRAC	Frac. Job	STG 10 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14,922'-15,036' FRAC W/: 311,128 GALS SLICKWATER, 24,100 LBS 100 MESH; 106,860 LBS 40/70 SAND; 155,840 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,224 PSI / BREAK DOWN: 4,180 PSI AT 15 BPM. AVG PRESS: 5,854 PSI / AVG RATE: 89.8 BPM MAX PRESS: 7,072 PSI / MAX RATE: 90.2 BPM ISIP: 3,277 PSI / FG: 0.84 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7,884 BBLs CLEAN 100 % PROP PLACED
12:15	14:45	2.50	PFRT	Perforating	STG 11. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14,903' AND SET. PERF AS FOLLOWS: 14,886'- 888'; 14,849'- 851'; 14,812'- 814'; 14,775'- 777'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 287 BBLs.
14:45	17:15	2.50	DTIM	Downtime	WAIT ON ADJACENT WELL OPS SBL PUMP MAINT.

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
17:15	19:15	2.00	FRAC	Frac. Job	STG 11 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14,774'-14,877' FRAC W/: 292,530 GALS SLICKWATER, 24,100 LBS 100 MESH; 105,320 LBS 40/70 SAND; 156,310 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,225 PSI / BREAK DOWN: 4,146 PSI AT 15 BPM. AVG PRESS: 6191 PSI / AVG RATE: 89.9 BPM MAX PRESS: 7516 PSI / MAX RATE: 91.7 BPM ISIP: 3920 PSI / FG: 0.92 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7531 BBLS CLEAN 100 % PROP PLACED
19:15	21:15	2.00	PFRT	Perforating	STG 12. RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14755 AND SET. PERF AS FOLLOWS: 14737' - 739', 14701' - 703', 14663 - 665', 14626' - 628'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 306.5 BBLS.
21:15	23:15	2.00	FRAC	Frac. Job	STG 12: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14626'-14739' FRAC W/: 282198 GALS SLICKWATER, 24160 LBS 100 MESH; 104640 LBS 40/70 SAND; 153740 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,170 PSI / BREAK DOWN: 4,148 PSI AT 15 BPM. AVG PRESS: 5893 PSI / AVG RATE: 90.1 BPM MAX PRESS: 6750 PSI / MAX RATE: 90.6 BPM ISIP: 4408 PSI / FG: 0.98 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:6719 BBLS CLEAN 100 % PROP PLACED
23:15	01:15	2.00	GOP	General Operations	GREASING VALVES ON BOTH WELLS AND ZIPPER.
01:15	02:45	1.50	GOP	General Operations	WAITING ON SIMOP.
02:45	04:15	1.50	DTIM	Downtime	CRANE BLOWING FUSING. TROUBLESHOOTING ISSUE.
04:15	06:00	1.75	GOP	General Operations	WAITING ON SIMOP.

6/16/2017 06:00 - 6/17/2017 06:00

 Operations Summary
 Frac Stages 13 ,14,15,16,17
 Perf Stages 13,14,15,16,17

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING WITH VENDORS
06:30	09:00	2.50	PFRT	Perforating	STG 13 RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14,606' AND SET. PERF AS FOLLOWS: 14,589'- 591'; 14,552'- 554' 14,515'- 517'; 14,478'- 480'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 286 BBLS.
09:00	11:30	2.50	FRAC	Frac. Job	STG 13: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14,477'-14,591 ' FRAC W/:322,308 GALS SLICKWATER, 23,020 LBS 100 MESH;106,260 LBS 40/70 SAND; 154,120 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,138 PSI / BREAK DOWN: 4,528 PSI AT 15 BPM. AVG PRESS: 5,956 PSI / AVG RATE : 89.8 BPM MAX PRESS: 7,516 PSI / MAX RATE: 90.3 BPM ISIP: 3,544 PSI / FG: .87 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7,674 BBLS CLEAN 100 % PROP PLACED
11:30	14:00	2.50	PFRT	Perforating	STG 14: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14458' AND SET. PERF AS FOLLOWS: 14,441'- 443'; 14,404'- 406'; 14,367'- 369'; 14,330'-332'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 253 BBLS.
14:00	15:00	1.00	DTIM	Downtime	SLB MAINT.
15:00	17:30	2.50	FRAC	Frac. Job	STG 14: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14,329'-14,442. ' FRAC W/:320,376 GALS SLICKWATER, 24,000 LBS 100 MESH;105,360 LBS 40/70 SAND; 156,200 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,221 PSI / BREAK DOWN: 4,822 PSI AT 15 BPM. AVG PRESS: 6,039 PSI / AVG RATE: 89.7 BPM MAX PRESS: 7,335 PSI / MAX RATE: 90.2 BPM ISIP: 3,585 PSI / FG: .88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:7628 BBLS CLEAN 100 % PROP PLACED
17:30	19:30	2.00	PFRT	Perforating	STG 15: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14310' AND SET. PERF AS FOLLOWS: 14292' - 294; 14255' - 257' ; 14218' - 220' ; 14181' - 183' POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 263.8 BBLS.
19:30	21:30	2.00	FRAC	Frac. Job	STG 15: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14,181'-14,294. ' FRAC W/: 260820 GALS SLICKWATER, 23,000 LBS 100 MESH;101,260 LBS 40/70 SAND; 158,200 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2167 PSI / BREAK DOWN: 3809 PSI AT 15 BPM. AVG PRESS: 5615 PSI / AVG RATE: 90.1 BPM MAX PRESS: 6230 PSI / MAX RATE: 90.7 BPM ISIP: 3,578 PSI / FG: .88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED:6210 BBLS CLEAN 100 % PROP PLACED

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
21:30	23:30	2.00	PFRT	Perforating	STG 16: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14161' AND SET. 48 PERFS AS FOLLOWS: 14033' - 14146' POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 275 BBLs.
23:30	01:30	2.00	FRAC	Frac. Job	STG 16: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 14032'-14,146'. ' FRAC W/: 305046 GALS SLICKWATER, 23,600 LBS 100 MESH;105,380 LBS 40/70 SAND; 154,620 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2243 PSI / BREAK DOWN: 4837 PSI AT 15 BPM. AVG PRESS: 6037 PSI / AVG RATE: 90.2 BPM MAX PRESS: 6976 PSI / MAX RATE: 90.7 BPM ISIP: 3228 PSI / FG: .83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7263 BBLs CLEAN 100 % PROP PLACED
01:30	03:30	2.00	PFRT	Perforating	STG 17: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 14013' AND SET. 48 PERFS AS FOLLOWS: 13995' - 13886' POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 267 BBLs.
03:30	04:30	1.00	GOP	General Operations	GREASE VALVES.
04:30	06:00	1.50	FRAC	Frac. Job	STG 17: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 13884'-13997'. ' FRAC W/: 237,375 GALS SLICKWATER, 23,700 LBS 100 MESH;106,980 LBS 40/70 SAND; 152,800 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2225 PSI / BREAK DOWN: 4107 PSI AT 15 BPM. AVG PRESS: 5604 PSI / AVG RATE: 90.1 BPM MAX PRESS: 5960 PSI / MAX RATE: 90.5 BPM ISIP: 3972 PSI / FG: .93 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 5621 BBLs CLEAN 100 % PROP PLACED

6/17/2017 06:00 - 6/18/2017 06:00

 Operations Summary
 Frac Stages 18, 19,20,21,22
 Perf Stages 18, 19,20,21,22

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:15	0.25	SMTG	Safety Meeting	SAFETY MEETING WITH VENDORS
06:15	07:00	0.75	DTIM	Downtime	SLB PUMP MAINT.
07:00	09:00	2.00	PFRT	Perforating	STG 18: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 13,865' AND SET. PERF AS FOLLOWS: 13,736" - 13,867' POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 244 BBLs.
09:00	11:00	2.00	FRAC	Frac. Job	STG 18: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 13736-848'. ' FRAC W/:323,988 GALS SLICKWATER, 24,000 LBS 100 MESH;104,140 _LBS 40/70 SAND; 156,180 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,252 PSI / BREAK DOWN: 4,069 PSI AT 15 BPM. AVG PRESS: 5,698 PSI / AVG RATE: 89.5 BPM MAX PRESS:7,086 PSI / MAX RATE: 90.0 BPM ISIP: 3,130 PSI / FG: .82 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,704 BBLs CLEAN 100 % PROP PLACED
11:00	13:30	2.50	PFRT	Perforating	STG 19: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 13,689' AND SET. PERF AS FOLLOWS: 13,589-714' POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 248 BBLs.
13:30	16:30	3.00	FRAC	Frac. Job	STG 19: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 13,587-701'. ' FRACKED W/: 322,392 GALS SLICKWATER, 23,000 LBS 100 MESH;105,620 LBS 40/70 SAND; 148,940 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,250 PSI / BREAK DOWN: 3,954 PSI AT 15 BPM. AVG PRESS: 5,664 PSI / AVG RATE: 89.7 BPM MAX PRESS: 6,050 PSI / MAX RATE: 90.1 BPM ISIP: 3,237 PSI / FG: .84 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,676 BBLs CLEAN 98 % PROP PLACED
16:30	18:30	2.00	PFRT	Perforating	STG 20: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 13567' AND SET. PERF AS FOLLOWS: 13439'-13552'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 219 BBLs.

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
18:30	20:30	2.00	FRAC	Frac. Job	STG 20: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 13,439-552 ' ' FRAC W/: 230,063 GALS SLICKWATER, 24280 LBS 100 MESH; 114040LBS 40/70 SAND; 143280 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2331 PSI / BREAK DOWN: 4283 PSI AT 15 BPM. AVG PRESS: 5699 PSI / AVG RATE: 90.3 BPM MAX PRESS: 6879 PSI / MAX RATE: 90.7 BPM ISIP: 3630 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 5477 BBLs CLEAN 100 % PROP PLACED
20:30	22:00	1.50	FBCK	Flowback Well	FLOWBACK WELL DUE TO SCREEN OUT.
22:00	00:00	2.00	PFRT	Perforating	STG 21: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 13419' AND SET. PERF AS FOLLOWS: 13291'-13404'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 230 BBLs.
00:00	01:15	1.25	FRAC	Frac. Job	STG 21: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 13,291-404 ' ' FRAC W/: 224830 GALS SLICKWATER, 23060 LBS 100 MESH; 119180 LBS 40/70 SAND; 137520 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2259 PSI / BREAK DOWN: 3777 PSI AT 15 BPM. AVG PRESS: 5406 PSI / AVG RATE: 90.1 BPM MAX PRESS: 5971 PSI / MAX RATE: 90.6 BPM ISIP: 3973 PSI / FG: 0.93 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 5353 BBLs CLEAN 100 % PROP PLACED
01:15	03:15	2.00	PFRT	Perforating	STG 22: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 13271' AND SET. PERF AS FOLLOWS: 13142'-13256'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 239 BBLs.
03:15	04:15	1.00	DTIM	Downtime	REPLACE STARTER ON FRAC VAN.
04:15	06:00	1.75	FRAC	Frac. Job	STG 22: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 13,142-256 ' ' FRAC W/: 238,774 GALS SLICKWATER, 23,960 LBS 100 MESH; 100,100 LBS 40/70 SAND; 156,980 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,305 PSI / BREAK DOWN: 3,623 PSI AT 15 BPM. AVG PRESS: 5,354 PSI / AVG RATE: 89.8 BPM MAX PRESS: 6,827 PSI / MAX RATE: 92.1 BPM ISIP: 3,616 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 5,685 BBLs CLEAN 100 % PROP PLACED

6/18/2017 06:00 - 6/19/2017 06:00

 Operations Summary
 Frac Stages 23, 24,25,26
 Perf Stages 23, 24, 25,26,27

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING
06:30	08:00	1.50	PFRT	Perforating	STG 23: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 13,123' AND SET. PERF AS FOLLOWS: 12,995' - 13,108'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 212 BBLs.
08:00	10:15	2.25	FRAC	Frac. Job	STG 23: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS:12,994-13,107 ' ' FRAC W/:320,334 GALS SLICKWATER, 23,020 LBS 100 MESH; 106,200 LBS 40/70 SAND; 154,780 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,266 PSI / BREAK DOWN: 3,444 PSI AT 15 BPM. AVG PRESS: 5,412 PSI / AVG RATE: 89.7 BPM MAX PRESS: 7,308 PSI / MAX RATE: 90.2 BPM ISIP: 3,316 PSI / FG: 0.85 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,627 BBLs CLEAN 100 % PROP PLACED
10:15	11:45	1.50	DTIM	Downtime	SLB PUMP MAINT GREASE VALVES WL REPAIR TOOL TRAP
11:45	13:30	1.75	PFRT	Perforating	STG 24: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 12975' AND SET. PERF AS FOLLOWS: 12,846' - 12,960'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 194 BBLs.
13:30	14:30	1.00	DTIM	Downtime	GREASE VALVES SLB PUMP MAINT

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
14:30	16:45	2.25	FRAC	Frac. Job	STG 24: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 12,846-959 ' ' FRAC W/322,308 GALS SLICKWATER, 23,980 LBS 100 MESH; 104,560 LBS 40/70 SAND; 155,620 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,274 PSI / BREAK DOWN: 3,525 PSI AT 15 BPM. AVG PRESS: 5,575 PSI / AVG RATE: 89.8 BPM MAX PRESS: 7,091 PSI / MAX RATE: 90.2 BPM ISIP: 3,401 PSI / FG: 0.86 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,674 BBLs CLEAN 100 % PROP PLACED
16:45	18:30	1.75	PFRT	Perforating	STG 25: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EAAND CFP TO 12829' AND SET. PERF AS FOLLOWS: 12,698' - 12811'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. ' ' PUMPDOWN BBLs- 198 BBLs.
18:30	21:30	3.00	DTIM	Downtime	WAITING FOE LIGHTNING STORM TO PASS
21:30	23:00	1.50	FRAC	Frac. Job	STG 25: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 12698' - 12808' ' ' FRAC W/:285,343.8 GALS SLICKWATER, 28000 LBS 100 MESH; 104620 LBS 40/70 SAND; 152600 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2135 PSI / BREAK DOWN: 3776 PSI AT 20 BPM. AVG PRESS: 5462 PSI / AVG RATE: 90.1 BPM MAX PRESS: 5733 PSI / MAX RATE: 90.9 BPM ISIP: 3677 PSI / FG: 0.89 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6793 BBLs CLEAN 100 % PROP PLACED
23:00	01:00	2.00	PFRT	Perforating	STG 26: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EAAND CFP TO 12678' AND SET. PERF AS FOLLOWS: 12,549' - 12662'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. ' ' PUMPDOWN BBLs- XX BBLs.
01:00	02:15	1.25	FRAC	Frac. Job	STG 26: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 12549'- 12663" ' ' FRAC W/: 223091 GALS SLICKWATER, 29000 LBS 100 MESH; 105000 LBS 40/70 SAND; 144380 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2205 PSI / BREAK DOWN: 3626 PSI AT 20 BPM. AVG PRESS: 5188 PSI / AVG RATE: 90.1 BPM MAX PRESS: 6716 PSI / MAX RATE: 90.6 BPM ISIP: 3206 PSI / FG: 0.83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 5311.7 BBLs CLEAN 100 % PROP PLACED
02:15	04:45	2.50	PFRT	Perforating	STG 27: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EAAND CFP TO 12529' AND SET. PERF AS FOLLOWS: 12,401' - 12514'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. ' ' PUMPDOWN BBLs- XX BBLs.
04:45	05:30	0.75	GOP	General Operations	GREASE VAVLVES.
05:30	06:00	0.50	SMTG	Safety Meeting	SAFETY MEETING WITH DAY CREW

6/19/2017 06:00 - 6/20/2017 06:00

 Operations Summary
 Frac Stages 28
 Perf Stages 28, 29,

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING
06:30	08:30	2.00	PFRT	Perforating	STG 27: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EAAND CFP TO 12,381' AND SET. PERF AS FOLLOWS: 12,253' - 12,366'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. ' ' PUMPDOWN BBLs- 174 BBLs.
08:30	10:00	1.50	FRAC	Frac. Job	STG 27: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 12,401-514 ' ' FRAC W/: 323,064 GALS SLICKWATER, 23,900 LBS 100 MESH; 104,100 LBS 40/70 SAND; 155,580 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,250 PSI / BREAK DOWN: 3,863 PSI AT 15 BPM. AVG PRESS: 5,340 PSI / AVG RATE: 89.1 BPM MAX PRESS: 6,334 PSI / MAX RATE: 90.2 BPM ISIP: 3,210 PSI / FG: 0.83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,692 BBLs CLEAN 100 % PROP PLACED
10:00	12:00	2.00	DTIM	Downtime	WAIT ON 30/50 SAND
12:00	13:30	1.50	PFRT	Perforating	STG 28: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EAAND CFP TO 12,381' AND SET. PERF AS FOLLOWS: 12,253' - 12,366'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. ' ' PUMPDOWN BBLs- 174 BBLs.

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
13:30	16:00	2.50	FRAC	Frac. Job	STG 28: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS:12,253-366' ' ' FRAC W/: 322,980 GALS SLICKWATER,24,000 LBS 100 MESH;104,580 LBS 40/70 SAND; 155,120 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,245 PSI / BREAK DOWN: 3,650 PSI AT 15 BPM. AVG PRESS:5,236 PSI / AVG RATE: 89.7 BPM MAX PRESS:5,430 PSI / MAX RATE:90.2 BPM ISIP: 2,679 PSI / FG: 0.77 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,690 BBLs CLEAN 100 % PROP PLACED
16:00	18:00	2.00	PFRT	Perforating	STG 29: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 12,233' AND SET. PERF AS FOLLOWS: 12,102' - 12,218'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 163 BBLs.
18:00	19:30	1.50	FRAC	Frac. Job	STG 29: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 12,104-217" ' ' FRAC W/: 230353 GALS SLICKWATER, 24000 LBS 100 MESH; 105000 LBS 40/70 SAND; 155200 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2250 PSI / BREAK DOWN: 3589 PSI AT 15 BPM. AVG PRESS: 5016 PSI / AVG RATE: 90.2 BPM MAX PRESS: 5378 PSI / MAX RATE: 90.6 BPM ISIP: 3340 PSI / FG: 0.85 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 5484 BBLs CLEAN 100 % PROP PLACED
19:30	21:45	2.25	PFRT	Perforating	STG 30: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 12085' AND SET. PERF AS FOLLOWS: 11956' - 12069' POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 167 BBLs.
21:45	06:00	8.25	DTIM	Downtime	WAITING ON SAND

6/20/2017 06:00 - 6/21/2017 06:00

 Operations Summary
 Frac Stages 30
 Perf Stages 31,

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING
06:30	10:00	3.50	DTIM	Downtime	PRESSURE TEST WAIT ON SLB PUMPS GREASE ZIPPER MANIFOLD
10:00	12:00	2.00	FRAC	Frac. Job	STG 30: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 11,956-12,069' ' ' FRAC W/: 323,820 GALS SLICKWATER, 22,980 LBS 100 MESH;104,800 LBS 40/70 SAND; 155,820 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 1910 PSI / BREAK DOWN: 4,122 PSI AT 15 BPM. AVG PRESS: 5,416 PSI / AVG RATE: 89.5 BPM MAX PRESS: 7,325 PSI / MAX RATE: 90.1 BPM ISIP: 3,041 PSI / FG: 0.81 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,710 BBLs CLEAN 100 % PROP PLACED
12:00	14:00	2.00	PFRT	Perforating	STG 31: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11,936' AND SET. PERF AS FOLLOWS: 11,808' - 11,921'. POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 156 BBLs.
14:00	16:45	2.75	FRAC	Frac. Job	STG 31: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 11,808-11921' ' ' FRAC W/: 324,492 GALS SLICKWATER, 22,840 LBS 100 MESH;103,740 LBS 40/70 SAND; 157,760 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2,045 PSI / BREAK DOWN: 3,487 PSI AT 15 BPM. AVG PRESS: 5,499 PSI / AVG RATE: 89.7 BPM MAX PRESS: 6,083 PSI / MAX RATE: 95.4 BPM ISIP: 3,420 PSI / FG: 0.86 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,726 BBLs CLEAN 100 % PROP PLACED
16:45	19:00	2.25	PFRT	Perforating	STG 32: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11786' AND SET. PERF AS FOLLOWS: 11660' - 11773" POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 149 BBLs.

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
19:00	21:30	2.50	FRAC	Frac. Job	STG 32: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 11659'-11772'. ' FRAC W/: 285801 GALS SLICKWATER, 24000 LBS 100 MESH; 102360 LBS 40/70 SAND; 156560 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2050 PSI / BREAK DOWN: 3416 PSI AT 15 BPM. AVG PRESS: 5200 PSI / AVG RATE: 90.2 BPM MAX PRESS: 5405 PSI / MAX RATE: 90.8 BPM ISIP: 3606 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6804 BBLs CLEAN 100 % PROP PLACED
21:30	00:00	2.50	PFRT	Perforating	STG 32: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11640' AND SET. PERF AS FOLLOWS: 11511'-11625', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 153 BBLs.
00:00	02:30	2.50	FRAC	Frac. Job	STG 33: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 11511'-11624'. ' FRAC W/: 280329 GALS SLICKWATER, 28000 LBS 100 MESH; 100940 LBS 40/70 SAND; 156700 LBS 30/50 SAND; DOWN 5 1/2" 17# P-110 CASING. PUMPED AS FOLLOWS: OPENING WELL PSI: 2040 PSI / BREAK DOWN: 3562 PSI AT 15 BPM. AVG PRESS: 5271 PSI / AVG RATE: 90.3 BPM MAX PRESS: 6049 PSI / MAX RATE: 91.2 BPM ISIP: 3234 PSI / FG: 0.83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6674 BBLs CLEAN 100 % PROP PLACED
02:30	05:00	2.50	PFRT	Perforating	STG 34: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11491' AND SET. PERF AS FOLLOWS: 11363' - 11476' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 140 BBLs.

6/21/2017 06:00 - 6/22/2017 06:00

 Operations Summary
 Frac Stages 34,
 Perf Stages 35, 36,

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING
06:30	08:00	1.50	FRAC	Frac. Job	STG 34 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS:11,363-491' FRACED W/ 280,308 GALS SLICKWATER, 27,000 LBS 100 MESH, 98,320 LBS 40/70 AND 157,660 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI. 1,973 PSI / BREAK DOWN:3,760 PSI AT 15 BPM. AVG PRESS 5,521 PSI / AVG RATE: 89.9 BPM MAX PRESS: 6,890 PSI / MAX RATE: 90.5 BPM ISIP: _____ 3,562 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,674 BBLs CLEAN 100% PROP PLACED
08:00	09:45	1.75	PFRT	Perforating	STG 35: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11,348' AND SET. PERF AS FOLLOWS: 11,215' - 11,328' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 143 BBLs.
09:45	12:15	2.50	FRAC	Frac. Job	STG 35 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS:11,214-328" FRACED W/ 281,778 GALS SLICKWATER, 23,840 LBS 100 MESH, 104,060 LBS 40/70 AND 155,240 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI. 2.050 PSI / BREAK DOWN:3,392 PSI AT 15 BPM. AVG PRESS 5,134 PSI / AVG RATE: 90.0 BPM MAX PRESS: 7,016 PSI / MAX RATE: 90.4 BPM ISIP: 3,197 PSI / FG: 0.83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,709 BBLs CLEAN 100% PROP PLACED
12:15	15:45	3.50	PFRT	Perforating	STG 36: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11,195' AND SET. PERF AS FOLLOWS: 11,066' - 11,180' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 134 BBLs.
15:45	17:30	1.75	FRAC	Frac. Job	STG 36 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 11066' - 11179' FRACED W/ 281442 GALS SLICKWATER, 25000 LBS 100 MESH, 104040 LBS 40/70 AND 155220 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI. 2235 PSI / BREAK DOWN: 3666 PSI AT 15 BPM. AVG PRESS 5243 PSI / AVG RATE: 89.7 BPM MAX PRESS: 7400 PSI / MAX RATE: 90.4 BPM ISIP: 3554 PSI / FG: 0.87 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6701 BBLs CLEAN 100% PROP PLACED

Well Name: UNIVERSITY 10 2703H

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
17:30	21:00	3.50	PFRT	Perforating	STG 37: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 11,046' AND SET. PERF AS FOLLOWS: 10,918' - 11,031' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 137 BBLS.
21:00	22:30	1.50	FRAC	Frac. Job	STG 37 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10918' - 11031' FRACED W/ 279762 GALS SLICKWATER, 22000 LBS 100 MESH, 106640 LBS 40/70 AND 158380 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2101 PSI / BREAK DOWN: 3344 PSI AT 20 BPM. AVG PRESS 5144 PSI / AVG RATE: 89.9 BPM MAX PRESS: 5316 PSI / MAX RATE: 90.4 BPM ISIP: 3516 PSI / FG: 0.87 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6661 BBLS CLEAN 100% PROP PLACED
22:30	00:30	2.00	PFRT	Perforating	STG 38: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,898' AND SET. PERF AS FOLLOWS: 10,769' - 10,883' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 134 BBLS.
00:30	01:00	0.50	GOP	General Operations	GREASE VALVES.
01:00	02:30	1.50	FRAC	Frac. Job	STG 38 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10769' - 10883" FRACED W/ 278712 GALS SLICKWATER, 24000 LBS 100 MESH, 107380 LBS 40/70 AND 157100 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2077 PSI / BREAK DOWN: 3442 PSI AT 20 BPM. AVG PRESS 5290 PSI / AVG RATE: 90.2 BPM MAX PRESS: 5512 PSI / MAX RATE: 90.7 BPM ISIP: 3786 PSI / FG: 0.90 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6636 BBLS CLEAN 100% PROP PLACED
02:30	04:30	2.00	PFRT	Perforating	STG 39: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,749' AND SET. PERF AS FOLLOWS: 10,621' - 10,734' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 121 BBLS.
04:30	06:00	1.50	FRAC	Frac. Job	STG 39 RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10,621' - 10,733" FRACED W/ 278712 GALS SLICKWATER, 24000 LBS 100 MESH, 107380 LBS 40/70 AND 157100 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,256 PSI / BREAK DOWN: 3401 PSI AT 20 BPM. AVG PRESS 5,300 PSI / AVG RATE: 89.7 BPM MAX PRESS: 5,675 PSI / MAX RATE: 90.9 BPM ISIP: 3786 PSI / FG: 0.83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,794 BBLS CLEAN 100% PROP PLACED

6/22/2017 06:00 - 6/23/2017 06:00

 Operations Summary
 Frac Stages 39, 40,
 Perf Stages 40, 41, 42

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	SAFETY MEETING
06:30	09:00	2.50	PFRT	Perforating	STG 40: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,601' AND SET. PERF AS FOLLOWS: 10,584' - 10,473' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 111 BBLS.
09:00	11:30	2.50	FRAC	Frac. Job	STG 40: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10,475' - 10,586'. FRACED W/ 278712 GALS SLICKWATER, 24000 LBS 100 MESH, 107380 LBS 40/70 AND 157100 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,180 PSI / BREAK DOWN: 3,765 PSI AT 15 BPM. AVG PRESS: 5,408 PSI / AVG RATE: 89.7 BPM MAX PRESS: 6,670 PSI / MAX RATE: 90.1 BPM ISIP: 3,115 PSI / FG: 0.82 PSI/FT USED: 1,000 GALS 15 % HCL ACID USED: 6,880 BBLS CLEAN 100% PROP PLACED
11:30	14:00	2.50	PFRT	Perforating	STG 41: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,453' AND SET. PERF AS FOLLOWS: 10,325' - 10,438' , POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 101 BBLS.

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
14:00	17:00	3.00	FRAC	Frac. Job	STG 41: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10,325' - 10,438'. FRACED W/ 278712 GALS SLICKWATER, 24000 LBS 100 MESH, 107380 LBS 40/70 AND 157100 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,256 PSI / BREAK DOWN: 3,707 PSI AT 15 BPM. AVG PRESS: 5,407 PSI / AVG RATE: 89.6 BPM MAX PRESS: 6,629 PSI / MAX RATE: 91.2 BPM ISIP: 3,823 PSI / FG: 0.91 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,784 BBLS CLEAN 100% PROP PLACED
17:00	18:30	1.50	PFRT	Perforating	STG 42: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,305' AND SET. PERF AS FOLLOWS: 10,177' - 10,290', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 99 BBLS.
18:30	04:30	10.00	DTIM	Downtime	WAITING ON FR TO BE DELIVERD TO LOCATION
04:30	06:00	1.50	FRAC	Frac. Job	STG 42: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10,325' - 10,438'. FRACED W/ 278712 GALS SLICKWATER, 24000 LBS 100 MESH, 100,320 LBS 40/70 AND 156,180 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,015 PSI / BREAK DOWN: 3,482 PSI AT 15 BPM. AVG PRESS: 5,504 PSI / AVG RATE: 89.5 BPM MAX PRESS: 7,096 PSI / MAX RATE: 95.2 BPM ISIP: 3,253 PSI / FG: 0.84 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,675 BBLS CLEAN 100% PROP PLACED

6/23/2017 06:00 - 6/24/2017 06:00

 Operations Summary
 Perf Stg #43,
 Frac Stg # 43, 44,

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	Safety meeting
06:30	08:00	1.50	PFRT	Perforating	STG 43: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,157' AND SET. PERF AS FOLLOWS: 10,028' - 10,141', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 89 BBLS.
08:00	09:30	1.50	FRAC	Frac. Job	STG 43: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 10,028' - 10,141'. FRACED W/ 278712 GALS SLICKWATER, 24000 LBS 100 MESH, 103,080 LBS 40/70 AND 156,120 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,121 PSI / BREAK DOWN: 3,956 PSI AT 15 BPM. AVG PRESS: 5,598 PSI / AVG RATE: 90 BPM MAX PRESS: 7,790 PSI / MAX RATE: 91 BPM ISIP: 3,658 PSI / FG: 0.89 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,712 BBLS CLEAN 100% PROP PLACED
09:30	11:00	1.50	PFRT	Perforating	STG 44: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 10,008' AND SET. PERF AS FOLLOWS: 9,880' - 9,991', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 82 BBLS.
11:00	18:45	7.75	DTIM	Downtime	WAITING ON SAND.
18:45	20:15	1.50	FRAC	Frac. Job	STG 44: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 9,880' - 9,993'. FRACED W/ 265986 GALS SLICKWATER, 24000 LBS 100 MESH, 106,040 LBS 40/70 AND 126,160 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,053 PSI / BREAK DOWN: 3,727 PSI AT 15 BPM. AVG PRESS: 5,208 PSI / AVG RATE: 90.1 BPM MAX PRESS: 6347 PSI / MAX RATE: 90.8 BPM ISIP: 3,532 PSI / FG: 0.87 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,333 BBLS CLEAN 100% PROP PLACED
20:15	23:15	3.00	DTIM	Downtime	JOB DELAYED DUE TO WEATHER. LIGHTNING /HEAVY RAINS / HAIL /HIGH WIND
23:15	00:00	0.75	DTIM	Downtime	WAITING ON SAND.
00:00	01:30	1.50	PFRT	Perforating	STG 45: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 9859' AND SET. PERF AS FOLLOWS: 9,731' - 9,844', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 80 BBLS.
01:30	03:15	1.75	DTIM	Downtime	WAITING ON SAND.

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
03:15	04:45	1.50	FRAC	Frac. Job	STG 45: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 9,731' - 9,844'. FRACED W/ 280350 GALS SLICKWATER, 24300 LBS 100 MESH, 108420 LBS 40/70 AND 154360 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 1992 PSI / BREAK DOWN: 4093 PSI AT 15 BPM. AVG PRESS: 5253 PSI / AVG RATE: 90.2 BPM MAX PRESS: 5655 PSI / MAX RATE: 91.4 BPM ISIP: 3,566 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,675 BBLs CLEAN 100% PROP PLACED
04:45	06:00	1.25	PFRT	Perforating	STG 46: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 9711' AND SET. PERF AS FOLLOWS: 9,583' - 9,696', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 74 BBLs.

6/24/2017 06:00 - 6/25/2017 06:00

 Operations Summary
 Frac Stages 46, 47,48,49
 Perf Stages 47, 48,49

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	Safety meeting
06:30	07:45	1.25	inactive	inactive	SimOps
07:45	10:45	3.00	FRAC	Frac. Job	STG 46: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 9,583' - 9,696' FRACED W/ 274554 GALS SLICKWATER, 24,000 LBS 100 MESH, 103,940 LBS 40/70 AND 154,860 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,078 PSI / BREAK DOWN: 4,405 PSI AT 15 BPM. AVG PRESS: 5,395 PSI / AVG RATE: 85.6 BPM MAX PRESS: 8,207 PSI / MAX RATE: 91 BPM ISIP: 3,743 PSI / FG: 0.90 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,412 BBLs CLEAN 95% PROP PLACED *****Lost 2 Frac pumps after starting 40/70 sand, continued pumping @ 83 bpm. Screened out on 1.75 ppa/ 30/50 sand stage with approx. 95% sand tll in formation. Flowed back 460 bbls @ 17 bpm/ 700 psi.*****
10:45	12:45	2.00	PFRT	Perforating	STG 47: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 9,563' AND SET. PERF AS FOLLOWS: 9,435' - 9,546', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 60 BBLs.
12:45	14:00	1.25	inactive	inactive	WORKING ON FRAC PUMPS AND DISCHARGE POV.
14:00	15:15	1.25	FRAC	Frac. Job	SIMOPS
15:15	17:15	2.00	FRAC	Frac. Job	STG 47: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 9,435' - 9,548'. FRACED W/ 280350 GALS SLICKWATER, 24300 LBS 100 MESH, 108420 LBS 40/70 AND 154360 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 1,966 PSI / BREAK DOWN: 3,861 PSI AT 15 BPM. AVG PRESS: 4,987 PSI / AVG RATE: 89.6 BPM MAX PRESS: 5,798 PSI / MAX RATE: 90.2 BPM ISIP: 3,053 PSI / FG: 0.81 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,654 BBLs CLEAN 100% PROP PLACED
17:15	18:45	1.50	PFRT	Perforating	STG 48: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 9,415' AND SET. PERF AS FOLLOWS: 9,287' - 9,400', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 59 BBLs.
18:45	20:15	1.50	GOP	General Operations	WAITING ON SIMOPS
20:15	22:00	1.75	FRAC	Frac. Job	STG 48: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 9286" - 9399'. FRACED W/ 293790 GALS SLICKWATER, 23040 LBS 100 MESH, 103920 LBS 40/70 AND 158660 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2113 PSI / BREAK DOWN: 3798 PSI AT 20 BPM. AVG PRESS: 5473 PSI / AVG RATE: 90.1 BPM MAX PRESS: 7187 PSI / MAX RATE: 91.1 BPM ISIP: 3485 PSI / FG: 0.87 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6995 BBLs CLEAN 100% PROP PLACED
22:00	23:30	1.50	PFRT	Perforating	STG 49: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 9,266' AND SET. PERF AS FOLLOWS: 9,138' - 9,251', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLs- 53 BBLs.
23:30	01:00	1.50	GOP	General Operations	WAITING ON SIMOPS
01:00	04:00	3.00	DTIM	Downtime	WAITING ON SAND

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Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
04:00	06:00	2.00	FRAC	Frac. Job	<p>STG 49: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8742' - 8853'.</p> <p>FRACED W/ 279174 GALS SLICKWATER, 25,520 LBS 100 MESH, 107,120 LBS 40/70 AND 153,740 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING</p> <p>PUMPED AS FOLLOWS:</p> <p>OPENING WELL PSI: 2,026 PSI / BREAK DOWN: 3,857 PSI AT 20 BPM. AVG PRESS: 5,521 PSI / AVG RATE: 90.1 BPM MAX PRESS: 5,724 PSI / MAX RATE: 90.6 BPM ISIP: 3,174 PSI / FG: 0.83 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,597 BBLS CLEAN 100% PROP PLACED</p> <p>SCHLUMBERGER RAN THE WRONG SAND BIN AND PUMPED 25000 LBS OF EXTRA 100 MESH INSTEAD OF 40/70</p>

6/25/2017 06:00 - 6/26/2017 06:00

 Operations Summary
 Frac Stages 50 - 54.

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	DISCUSS PPE, HYDRATION, GENERAL SAFETY.
06:30	08:00	1.50	PFRT	Perforating	<p>STG 50: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 9,118' AND SET. PERF AS FOLLOWS: 9,101' - 8,990', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED.</p> <p>PUMP DOWN BBLS- 45 BBLS</p>
08:00	09:30	1.50	FRAC	Frac. Job	<p>STG 50: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8990' - 9103'.</p> <p>FRACED W/ 279174 GALS SLICKWATER, 25,520 LBS 100 MESH, 107,120 LBS 40/70 AND 153,740 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING</p> <p>PUMPED AS FOLLOWS:</p> <p>OPENING WELL PSI: 2,223 PSI / BREAK DOWN: 3975 PSI AT 20 BPM. AVG PRESS: 5,239 PSI / AVG RATE: 89.6 BPM MAX PRESS: 6,058 PSI / MAX RATE: 90.3 BPM ISIP: 3,246 PSI / FG: 0.84 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,639 BBLS CLEAN 100% PROP PLACED</p>
09:30	11:00	1.50	DTIM	Downtime	WORKING ON COMMUNICATIONS PROBLEM ON PUMP UNIT.
11:00	12:30	1.50	PFRT	Perforating	<p>STG 51: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 8969' AND SET. PERF AS FOLLOWS: 8841' - 8954', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED.</p> <p>PUMPDOWN BBLS- 42 BBLS.</p>
12:30	16:00	3.50	DTIM	Downtime	DOWN DUE TO ISSUES WITH PUMPS.
16:00	17:30	1.50	FRAC	Frac. Job	<p>STG 51: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8841' - 8954'.</p> <p>FRACED W/ 275310 GALS SLICKWATER, 24,000 LBS 100 MESH, 103,180 LBS 40/70 AND 156,120 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING</p> <p>PUMPED AS FOLLOWS:</p> <p>OPENING WELL PSI: 2192 PSI / BREAK DOWN: 4416 PSI AT 20 BPM. AVG PRESS: 5245 PSI / AVG RATE: 89.8 BPM MAX PRESS: 5849 PSI / MAX RATE: 90.5 BPM ISIP: 3798 PSI / FG: 0.90 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,555 BBLS CLEAN 100% PROP PLACED</p>
17:30	19:30	2.00	PFRT	Perforating	<p>STG 52: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 8821' AND SET. PERF AS FOLLOWS: 8693' - 8806', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED.</p> <p>PUMPDOWN BBLS- 39 BBLS.</p>
19:30	21:15	1.75	FRAC	Frac. Job	<p>STG 52: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8693' - 8806'.</p> <p>FRACED W/ 277242 GALS SLICKWATER, 24,000 LBS 100 MESH, 106,300 LBS 40/70 AND 154120 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING</p> <p>PUMPED AS FOLLOWS:</p> <p>OPENING WELL PSI: 2437 PSI / BREAK DOWN: 4127 PSI AT 20 BPM. AVG PRESS: 5130 PSI / AVG RATE: 83.7 BPM MAX PRESS: 5782 PSI / MAX RATE: 90.1 BPM ISIP: 3977 PSI / FG: 0.93 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,601 BBLS CLEAN 100% PROP PLACED</p>
21:15	22:30	1.25	PFRT	Perforating	<p>STG 53: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 8673' AND SET. PERF AS FOLLOWS: 8544' - 8658', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED.</p> <p>PUMPDOWN BBLS- 34 BBLS.</p>
22:30	00:30	2.00	DTIM	Downtime	DOWN TIME DUE TO PUMP MAINTENANCE.

Well Name: UNIVERSITY 10 2703H

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
00:30	02:00	1.50	FRAC	Frac. Job	STG 53: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8544' - 8658'. FRACED W/ 276948 GALS SLICKWATER, 24,020 LBS 100 MESH, 104,600 LBS 40/70 AND 159480 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2079 PSI / BREAK DOWN: 3952 PSI AT 20 BPM. AVG PRESS: 5391 PSI / AVG RATE: 89.6 BPM MAX PRESS: 6804 PSI / MAX RATE: 90.8 BPM ISIP: 3646 PSI / FG: 0.89 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,594 BBLS CLEAN 100% PROP PLACED
02:00	03:45	1.75	PFRT	Perforating	STG 54: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 8524' AND SET. PERF AS FOLLOWS: 8396' - 8509', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 29 BBLS.
03:45	06:00	2.25	FRAC	Frac. Job	STG 54: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8,397' - 8,510'. FRACED W/ 276948 GALS SLICKWATER, 24,020 LBS 100 MESH, 104,600 LBS 40/70 AND 159480 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,164 PSI / BREAK DOWN: 3,969 PSI AT 15 BPM. AVG PRESS: 5,166 PSI / AVG RATE: 90 BPM MAX PRESS: 5,705 PSI / MAX RATE: 90.7 BPM ISIP: 3,383 PSI / FG: 0.85 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 6,562 BBLS CLEAN 100% PROP PLACED

6/26/2017 06:00 - 6/27/2017 06:00

Operations Summary

Frac Stages 55- 56, RDMOL Frac

Start Time	End Time	Dur (hr)	Code 1	Code 2	Com
06:00	06:30	0.50	SMTG	Safety Meeting	Safety Meeting
06:30	08:00	1.50	PFRT	Perforating	STG 55: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 8,377' AND SET. PERF AS FOLLOWS: 8,248' - 8,362', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 16 BBLS.
08:00	10:00	2.00	FRAC	Frac. Job	STG 55: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8,248' - 8,362'. FRACED W/ 298,866 GALS SLICKWATER, 44,500 LBS 100 MESH, 123,780 LBS 40/70 AND 156,880 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,105 PSI / BREAK DOWN: 4,440 PSI AT 15 BPM. AVG PRESS: 5,040 PSI / AVG RATE: 89.7 BPM MAX PRESS: 5,800 PSI / MAX RATE: 90.4 BPM ISIP: 3,894 PSI / FG: 0.92 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,461 BBLS CLEAN 100+% PROP PLACED
10:00	11:30	1.50	PFRT	Perforating	STG 56: RU E&P WIRELINE. PUMPED DOWN FOUR- 3 1/8" GUNS W/ 6 SPF, 60* PHASING, 12 SHOTS EA AND CFP TO 8,228' AND SET. PERF AS FOLLOWS: 8,100' - 8,211', POOH W/ GUNS AND SETTING TOOL. CONFIRMED ALL SHOTS FIRED. PUMPDOWN BBLS- 10 BBLS.
11:30	13:30	2.00	FRAC	Frac. Job	STG 56: RU SLB, ROCK WATER WT, TO FRAC HORIZONTAL PERFORATIONS 8,100' - 8,213'. FRACED W/ 298,866 GALS SLICKWATER, 44,000 LBS 100 MESH, 123,000 LBS 40/70 AND 156,000 LBS 30/50 SAND DOWN 5 1/2" 17# P-110 CASING PUMPED AS FOLLOWS: OPENING WELL PSI: 2,145 PSI / BREAK DOWN: 5,560 PSI AT 15 BPM. AVG PRESS: 5,008 PSI / AVG RATE: 89.4 BPM MAX PRESS: 5,613 PSI / MAX RATE: 90.0 BPM ISIP: 3,624 PSI / FG: 0.88 PSI/FT USED 1,000 GALS 15 % HCL ACID USED: 7,525 BBLS CLEAN 100+% PROP PLACED
13:30	13:30		SRIG	Rig Up/Down	RDMOL all Frac equipment and personnel.