

WINS No: H9729

YELLOWJACKET UL UNIT 19-3 14H

Date: 5/13/2017

AFE No: 2104225

Daily Completion and Workover Report

DOL:

PERFORATIONS

ZONE	DATE	SIDETRACK #	STATUS	TYPE	TOP (usft)	BASE (usft)
	5/15/2017	OH	OPEN	PERFORATED	11,992.0	11,993.0
	5/15/2017	OH	OPEN	PERFORATED	12,603.0	12,604.0
	5/15/2017	OH	OPEN	PERFORATED	12,301.0	12,302.0
	5/15/2017	OH	OPEN	PERFORATED	12,098.0	12,099.0
	5/15/2017	OH	OPEN	PERFORATED	11,927.0	11,928.0
	5/15/2017	OH	OPEN	PERFORATED	12,334.0	12,335.0
	5/15/2017	OH	OPEN	PERFORATED	12,538.0	12,539.0
	5/15/2017	OH	OPEN	PERFORATED	12,570.0	12,571.0
	5/15/2017	OH	OPEN	PERFORATED	12,505.0	12,506.0
	5/15/2017	OH	OPEN	PERFORATED	12,269.0	12,270.0
	5/15/2017	OH	OPEN	PERFORATED	12,163.0	12,164.0
	5/15/2017	OH	OPEN	PERFORATED	12,432.0	12,433.0
	5/15/2017	OH	OPEN	PERFORATED	12,196.0	12,197.0
	5/15/2017	OH	OPEN	PERFORATED	11,959.0	11,960.0
	5/15/2017	OH	OPEN	PERFORATED	12,472.0	12,473.0
	5/15/2017	OH	OPEN	PERFORATED	12,025.0	12,026.0
	5/15/2017	OH	OPEN	PERFORATED	11,894.0	11,895.0
	5/15/2017	OH	OPEN	PERFORATED	11,861.0	11,862.0
	5/15/2017	OH	OPEN	PERFORATED	12,399.0	12,400.0
	5/15/2017	OH	OPEN	PERFORATED	12,367.0	12,368.0
	5/15/2017	OH	OPEN	PERFORATED	12,130.0	12,131.0
	5/15/2017	OH	OPEN	PERFORATED	12,065.0	12,066.0
	5/15/2017	OH	OPEN	PERFORATED	12,229.0	12,230.0
	5/14/2017	OH	OPEN	PERFORATED	13,043.0	13,044.0
	5/14/2017	OH	OPEN	PERFORATED	12,912.0	12,913.0
	5/14/2017	OH	OPEN	PERFORATED	13,247.0	13,248.0
	5/14/2017	OH	OPEN	PERFORATED	12,978.0	12,979.0
	5/14/2017	OH	OPEN	PERFORATED	13,149.0	13,150.0
	5/14/2017	OH	OPEN	PERFORATED	13,352.0	13,353.0
	5/14/2017	OH	OPEN	PERFORATED	13,214.0	13,215.0
	5/14/2017	OH	OPEN	PERFORATED	12,880.0	12,881.0
	5/14/2017	OH	OPEN	PERFORATED	13,011.0	13,012.0
	5/14/2017	OH	OPEN	PERFORATED	12,636.0	12,637.0
	5/14/2017	OH	OPEN	PERFORATED	13,116.0	13,117.0
	5/14/2017	OH	OPEN	PERFORATED	13,418.0	13,419.0
	5/14/2017	OH	OPEN	PERFORATED	12,807.0	12,808.0
	5/14/2017	OH	OPEN	PERFORATED	13,287.0	13,288.0
	5/14/2017	OH	OPEN	PERFORATED	13,182.0	13,183.0
	5/14/2017	OH	OPEN	PERFORATED	12,741.0	12,742.0
	5/14/2017	OH	OPEN	PERFORATED	12,709.0	12,710.0
	5/14/2017	OH	OPEN	PERFORATED	13,451.0	13,452.0
	5/14/2017	OH	OPEN	PERFORATED	12,774.0	12,775.0
	5/14/2017	OH	OPEN	PERFORATED	12,945.0	12,946.0
	5/14/2017	OH	OPEN	PERFORATED	12,840.0	12,841.0
	5/14/2017	OH	OPEN	PERFORATED	13,083.0	13,084.0
	5/14/2017	OH	OPEN	PERFORATED	12,676.0	12,677.0
	5/14/2017	OH	OPEN	PERFORATED	13,320.0	13,321.0
	5/14/2017	OH	OPEN	PERFORATED	13,385.0	13,386.0
	5/13/2017	OH	OPEN	PERFORATED	13,931.0	13,932.0
	5/13/2017	OH	OPEN	PERFORATED	13,491.0	13,492.0
	5/13/2017	OH	OPEN	PERFORATED	14,200.0	14,201.0
	5/13/2017	OH	OPEN	PERFORATED	14,102.0	14,103.0
	5/13/2017	OH	OPEN	PERFORATED	13,964.0	13,965.0
	5/13/2017	OH	OPEN	PERFORATED	13,898.0	13,899.0
	5/13/2017	OH	OPEN	PERFORATED	13,694.0	13,695.0
	5/13/2017	OH	OPEN	PERFORATED	13,556.0	13,557.0
	5/13/2017	OH	OPEN	PERFORATED	13,858.0	13,859.0
	5/13/2017	OH	OPEN	PERFORATED	13,825.0	13,826.0
	5/13/2017	OH	OPEN	PERFORATED	13,793.0	13,794.0
	5/13/2017	OH	OPEN	PERFORATED	14,266.0	14,267.0
	5/13/2017	OH	OPEN	PERFORATED	13,654.0	13,655.0
	5/13/2017	OH	OPEN	PERFORATED	13,727.0	13,728.0
	5/13/2017	OH	OPEN	PERFORATED	14,062.0	14,063.0
	5/13/2017	OH	OPEN	PERFORATED	13,760.0	13,761.0
	5/13/2017	OH	OPEN	PERFORATED	14,029.0	14,030.0
	5/13/2017	OH	OPEN	PERFORATED	14,167.0	14,168.0
	5/13/2017	OH	OPEN	PERFORATED	13,523.0	13,524.0
	5/13/2017	OH	OPEN	PERFORATED	13,622.0	13,623.0
	5/13/2017	OH	OPEN	PERFORATED	13,589.0	13,590.0
	5/13/2017	OH	OPEN	PERFORATED	14,233.0	14,234.0
	5/13/2017	OH	OPEN	PERFORATED	13,996.0	13,997.0
	5/13/2017	OH	OPEN	PERFORATED	14,135.0	14,136.0

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	5/12/2017	OH	OPEN	PERFORATED	14,306.0	14,307.0
	5/12/2017	OH	OPEN	PERFORATED	14,575.0	14,576.0
	5/12/2017	OH	OPEN	PERFORATED	14,982.0	14,983.0
	5/12/2017	OH	OPEN	PERFORATED	14,371.0	14,372.0
	5/12/2017	OH	OPEN	PERFORATED	14,338.0	14,339.0
	5/12/2017	OH	OPEN	PERFORATED	14,673.0	14,674.0
	5/12/2017	OH	OPEN	PERFORATED	14,509.0	14,510.0
	5/12/2017	OH	OPEN	PERFORATED	14,949.0	14,950.0
	5/12/2017	OH	OPEN	PERFORATED	14,640.0	14,641.0
	5/12/2017	OH	OPEN	PERFORATED	14,404.0	14,405.0
	5/12/2017	OH	OPEN	PERFORATED	14,436.0	14,437.0
	5/12/2017	OH	OPEN	PERFORATED	14,778.0	14,779.0
	5/12/2017	OH	OPEN	PERFORATED	14,746.0	14,747.0
	5/12/2017	OH	OPEN	PERFORATED	14,811.0	14,812.0
	5/12/2017	OH	OPEN	PERFORATED	15,048.0	15,049.0
	5/12/2017	OH	OPEN	PERFORATED	15,080.0	15,081.0
	5/12/2017	OH	OPEN	PERFORATED	14,713.0	14,714.0
	5/12/2017	OH	OPEN	PERFORATED	14,877.0	14,878.0
	5/12/2017	OH	OPEN	PERFORATED	14,469.0	14,470.0
	5/12/2017	OH	OPEN	PERFORATED	14,844.0	14,845.0
	5/12/2017	OH	OPEN	PERFORATED	14,917.0	14,918.0
	5/12/2017	OH	OPEN	PERFORATED	15,015.0	15,016.0
	5/12/2017	OH	OPEN	PERFORATED	14,542.0	14,543.0
	5/12/2017	OH	OPEN	PERFORATED	14,607.0	14,608.0
	5/11/2017	OH	OPEN	PERFORATED	15,357.0	15,358.0
	5/11/2017	OH	OPEN	PERFORATED	15,186.0	15,187.0
	5/11/2017	OH	OPEN	PERFORATED	15,764.0	15,765.0
	5/11/2017	OH	OPEN	PERFORATED	15,528.0	15,529.0
	5/11/2017	OH	OPEN	PERFORATED	15,691.0	15,692.0
	5/11/2017	OH	OPEN	PERFORATED	15,731.0	15,732.0
	5/11/2017	OH	OPEN	PERFORATED	15,324.0	15,325.0
	5/11/2017	OH	OPEN	PERFORATED	15,560.0	15,561.0
	5/11/2017	OH	OPEN	PERFORATED	15,455.0	15,456.0
	5/11/2017	OH	OPEN	PERFORATED	15,797.0	15,798.0
	5/11/2017	OH	OPEN	PERFORATED	15,593.0	15,594.0
	5/11/2017	OH	OPEN	PERFORATED	15,895.0	15,896.0
	5/11/2017	OH	OPEN	PERFORATED	15,830.0	15,831.0
	5/11/2017	OH	OPEN	PERFORATED	15,284.0	15,285.0
	5/11/2017	OH	OPEN	PERFORATED	15,488.0	15,489.0
	5/11/2017	OH	OPEN	PERFORATED	15,251.0	15,252.0
	5/11/2017	OH	OPEN	PERFORATED	15,422.0	15,423.0
	5/11/2017	OH	OPEN	PERFORATED	15,219.0	15,220.0
	5/11/2017	OH	OPEN	PERFORATED	15,659.0	15,660.0
	5/11/2017	OH	OPEN	PERFORATED	15,389.0	15,390.0
	5/11/2017	OH	OPEN	PERFORATED	15,120.0	15,121.0
	5/11/2017	OH	OPEN	PERFORATED	15,626.0	15,627.0
	5/11/2017	OH	OPEN	PERFORATED	15,153.0	15,154.0
	5/11/2017	OH	OPEN	PERFORATED	15,862.0	15,863.0
	5/10/2017	OH	OPEN	PERFORATED	16,001.0	16,002.0
	5/10/2017	OH	OPEN	PERFORATED	16,237.0	16,238.0
	5/10/2017	OH	OPEN	PERFORATED	16,343.0	16,344.0
	5/10/2017	OH	OPEN	PERFORATED	16,066.0	16,067.0
	5/10/2017	OH	OPEN	PERFORATED	16,408.0	16,409.0
	5/10/2017	OH	OPEN	PERFORATED	16,033.0	16,034.0
	5/10/2017	OH	OPEN	PERFORATED	16,303.0	16,304.0
	5/10/2017	OH	OPEN	PERFORATED	16,375.0	16,376.0
	5/10/2017	OH	OPEN	PERFORATED	16,506.0	16,507.0
	5/10/2017	OH	OPEN	PERFORATED	16,204.0	16,205.0
	5/10/2017	OH	OPEN	PERFORATED	15,935.0	15,936.0
	5/10/2017	OH	OPEN	PERFORATED	16,473.0	16,474.0
	5/10/2017	OH	OPEN	PERFORATED	16,270.0	16,271.0
	5/10/2017	OH	OPEN	PERFORATED	16,139.0	16,140.0
	5/10/2017	OH	OPEN	PERFORATED	16,441.0	16,442.0
	5/10/2017	OH	OPEN	PERFORATED	16,099.0	16,100.0
	5/10/2017	OH	OPEN	PERFORATED	15,968.0	15,969.0
	5/10/2017	OH	OPEN	PERFORATED	16,172.0	16,173.0
	5/9/2017	OH	OPEN	PERFORATED	16,750.0	16,751.0
	5/9/2017	OH	OPEN	PERFORATED	17,117.0	17,118.0
	5/9/2017	OH	OPEN	PERFORATED	16,546.0	16,547.0
	5/9/2017	OH	OPEN	PERFORATED	16,644.0	16,645.0
	5/9/2017	OH	OPEN	PERFORATED	16,783.0	16,784.0
	5/9/2017	OH	OPEN	PERFORATED	16,815.0	16,816.0
	5/9/2017	OH	OPEN	PERFORATED	16,579.0	16,580.0
	5/9/2017	OH	OPEN	PERFORATED	17,052.0	17,053.0
	5/9/2017	OH	OPEN	PERFORATED	16,986.0	16,987.0

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	5/9/2017	OH	OPEN	PERFORATED	16,677.0	16,678.0
	5/9/2017	OH	OPEN	PERFORATED	16,881.0	16,882.0
	5/9/2017	OH	OPEN	PERFORATED	16,616.0	16,617.0
	5/9/2017	OH	OPEN	PERFORATED	17,085.0	17,086.0
	5/9/2017	OH	OPEN	PERFORATED	17,019.0	17,020.0
	5/9/2017	OH	OPEN	PERFORATED	16,954.0	16,955.0
	5/9/2017	OH	OPEN	PERFORATED	16,848.0	16,849.0
	5/9/2017	OH	OPEN	PERFORATED	16,710.0	16,711.0
	5/9/2017	OH	OPEN	PERFORATED	16,914.0	16,915.0
	4/22/2017	OH	OPEN	PERFORATED	17,157.0	17,158.0
	4/22/2017	OH	OPEN	PERFORATED	17,223.0	17,224.0
	4/22/2017	OH	OPEN	PERFORATED	17,256.0	17,257.0
	4/22/2017	OH	OPEN	PERFORATED	17,190.0	17,191.0
	4/22/2017	OH	OPEN	PERFORATED	17,288.0	17,289.0
	4/22/2017	OH	OPEN	PERFORATED	17,321.0	17,322.0

SUMMARY

FRAC 15 - 19 STAGE. PLACING 57,572 LBS OF 100 MESH IN 2,586,920 BBLS OF SW.

PLUG AND PERF STG #16 - 19 WITH (96) SHOTS OF EXP-2716-421T CHARGES, 16 GM 0.38" EHD 4 SPF FROM 14,267' - 13,491'

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OPERATION DETAILS

HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
00:00 - 00:38	0.63	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #15</p> <p>ATR: 68.8 BPM SW: 10,692 BBLS ATP: 7,157 PSI PDV: 74 BBLS MTR: 70.9 BPM TOTAL FLUIDS: 11,490 BBLS MTP: 7,848 PSI 100 M: 519,740 LBS</p> <p>15%: 28.6 BBLS ISIP - 4,991 PSIG FG - 0.870 PSI/FT</p> <p>NON-PRODUCTIVE TIME: 0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 21:20 WITH 4,365 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,150 PSI, 326 BBLS, AT 14.28 BPM AND A BREAK OF 5,735 PSI. INCREASED RATE, AND DECREASED FR CONCENTRATION PRESSURE PERMITTING. INCREASED FR TO 1.0 GPT ON 2.0 PPG TO PREPARE FOR FLUSH. FLUSHED AT 70 BPM. DROPPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 250 BBLS. ALL PROPPANT PLACED. DURING THE FLUSH STAGE THE FRAC DATA VAN LOST WI-FI COMMUNICATION CONTROL WITH ALL EQUIPMENT. HALLIBURTON HAD TO STEP DOWN SHUTDOWN THE PUMPS FROM OUTSIDE THE FRAC DATA VAN AND COMPLETED JOB WITH NO FURTHER ISSUES. HALLIBURTON E-TECH TO WORK AND CHECK FRAC DATA VAN BEFORE WE START OUR NEXT FRAC.</p>
00:38 - 01:00	0.37	FRAC	37 P - PERFORATING	1 - RU / RD PERFORATING EQUIPMENT	<p>P/U 3.5" SUPERIOR BOSS HOG PLUG AND GUNS. EQUALIZE PRESSURE TO 5,200 PSIG. OPEN HYDRAULIC MASTER VALVE. RIH.</p>
01:00 - 02:15	1.25	FRAC	37 P - PERFORATING	E - PERFORATE CASING	<p>STAGE #16.</p> <p>RIH W/ (6) - 1' X 3.125" (24 SHOTS) GUN W/ TITAN EXP-2716-421T CHARGES, 16GM 0.38" EHD LOADED 4 SPF, 60 DEG PHS & FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 290 - 350 FPM 3 BPM @ 5,304 PSI 6 BPM @ 5,419 PSI 10 BPM @ 5,800 PSI</p> <p>MAX PRESS - 5,887 PSI PDV- 74 BBLS</p> <p>PULL INTO POSITION & PERF INTERVALS FROM FTCBP 14,286' 14,266' - 67' 14,233' - 34' 14,200' - 01' 14,167' - 68' 14,135' - 36' 14,102' - 03' POOH ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.</p>
02:15 - 02:40	0.42	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	<p>LAID DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS. PT LINES.</p>
02:40 - 06:20	3.67	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>1STG #16</p> <p>ATR: 67.7 BPM SW: 10,756 BBLS ATP: 7,278 PSI PDV: 67 BBLS MTR: 71.0 BPM TOTAL FLUIDS: 11,501 BBLS MTP: 7,871 PSI 100 M: 517,480 LBS</p> <p>15%: 28.6 BBLS ISIP - 5,014 PSIG FG - 0.870 PSI/FT</p> <p>NON-PRODUCTIVE TIME: 0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 03:04 WITH 4,449 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,378 PSI, 348 BBLS, AT 15.20 BPM AND A BREAK OF 5,875 PSI. INCREASED RATE, AND DECREASED FR CONCENTRATION PRESSURE PERMITTING. INCREASED FR TO 0.8 GPT ON THE 1.5 PPG SAND STAGE TO KEEP PRESSURE BRACKET UNDER 7500 PSI (PRICING), INCREASED FR TO 1.0 GPT ON 2.0 PPG TO PREPARE FOR FLUSH. FLUSHED AT 70 BPM. DROPPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 200 BBLS. ALL PROPPANT PLACED.</p>

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06:20 - 06:40	0.33	FRAC	37 P - PERFORATING	1 - RU / RD PERFORATING EQUIPMENT	P/U 3.5" SUPERIOR BOSS HOG PLUG AND GUNS. EQUALIZE PRESSURE TO 5,200 PSIG. OPEN HYDRAULIC MASTER VALVE. RIH.
06:40 - 08:00	1.33	FRAC	37 P - PERFORATING	E - PERFORATE CASING	STAGE #17. RIH W/ (6) - 1' X 3.125" (24 SHOTS) GUN W/ TITAN EXP-2716-421T CHARGES, 16GM 0.38" EHD LOADED 4 SPF, 60 DEG PHS & FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 20 - 350 FPM 4 BPM @ 5,320 PSI 6 BPM @ 5,680 PSI 10 BPM @ 5,900 PSI MAX PRESS - 6,000 PSI PDV- 67 BBLS PULL INTO POSITION & PERF INTERVALS FROM FTCBP 14,082' 14,062' - 63' 14,029' - 30' 13,996' - 97' 13,964' - 65' 13,931' - 32' 13,898' - 99' POOH ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.
08:00 - 08:20	0.33	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	LAID DOWN LUBRICATOR. VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS. PT LINES.
08:20 - 12:22	4.03	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	STG #17 ATR: 67.5 BPM SW: 10,654 BBLS ATP: 7,339 PSI PDV: 61 BBLS MTR: 70.5 BPM TOTAL FLUIDS: 11,392 BBLS MTP: 8,206 PSI 100 M: 513,420 LBS 15%: 28.6 BBLS ISIP - 4,857 PSIG FG - 0.856 PSI/FT NON-PRODUCTIVE TIME: 0.30 HRS STAGE REMARKS: DELAY PRIOR TO STAGE TO ISOLATE A PUMP AND PRESSURE TEST (08:34-08:53, 0.3 HRS NPT). OPENED WELL AT 09:08 WITH 4,273 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,424 PSI, 337 BBLS, AT 15.0 BPM AND A BREAK OF 5,718 PSI. INCREASED RATE, AND DECREASED FR CONCENTRATION PRESSURE PERMITTING. INCREASED FR TO 0.7 GPT 2.0 PPG TO PREPARE FOR FLUSH. FLUSHED AT 70
12:22 - 12:38	0.27	FRAC	37 P - PERFORATING	1 - RU / RD PERFORATING EQUIPMENT	P/U 3.5" SUPERIOR BOSS HOG PLUG AND GUNS. EQUALIZE PRESSURE TO 5,200 PSIG. OPEN HYDRAULIC MASTER VALVE. RIH.
12:38 - 14:20	1.70	FRAC	37 P - PERFORATING	E - PERFORATE CASING	STAGE #18. RIH W/ (6) - 1' X 3.125" (24 SHOTS) GUN W/ TITAN EXP-2716-421T CHARGES, 16GM 0.38" EHD LOADED 4 SPF, 60 DEG PHS & FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 20 - 350 FPM 3 BPM @ 5,330 PSI 6 BPM @ 5,530 PSI 10 BPM @ 5,710 PSI MAX PRESS - 5,750 PSI PDV- 61 BBLS PULL INTO POSITION & PERF INTERVALS FROM FTCBP 13,878' 13,858' - 59' 13,825' - 26' 13,793' - 94' 13,760' - 61' 13,727' - 28' 13,694' - 95' POOH ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.
14:20 - 14:45	0.42	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	LAID DOWN LUBRICATOR. VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS. PT LINES.

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14:45 - 18:14	3.48	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #18</p> <p>ATR: BPM SW: 10,928 BBLS ATP: 7,280 PSI PDV: 89 BBLS MTR: 71.1 BPM TOTAL FLUIDS: 11,808 BBLS MTP: 7,761 PSI 100 M: 520,180 LBS</p> <p>15%: 28.6 BBLS ISIP - 4,887 PSIG FG - 0.859 PSI/FT</p> <p>NON-PRODUCTIVE TIME: 0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 14:58 WITH 4,221 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,201 PSI, 335 BBLS, AT 15.1 BPM AND A BREAK OF 5,550 PSI. INCREASED RATE, AND DECREASED FR CONCENTRATION PRESSURE PERMITTING. INCREASED FR TO 0.7 GPT 2.0 PPG TO PREPARE FOR FLUSH. FLUSHED AT 70 BPM. DROPPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 200 BBLS. ALL PROPPANT PLACED. LOST ONE PUMP PACKING</p>
18:14 - 18:30	0.27	FRAC	37 P - PERFORATING	1 - RU / RD PERFORATING EQUIPMENT	<p>P/U 3.5" SUPERIOR BOSS HOG PLUG AND GUNS. EQUALIZE PRESSURE TO 5,200 PSIG. OPEN HYDRAULIC MASTER VALVE. RIH.</p>
18:30 - 20:00	1.50	FRAC	37 P - PERFORATING	E - PERFORATE CASING	<p>STAGE #19.</p> <p>RIH W/ (6) - 1' X 3.125" (24 SHOTS) GUN W/ TITAN EXP-2716-421T CHARGES, 16GM 0.38" EHD LOADED 4 SPF, 60 DEG PHS & FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 20 - 350 FPM 3 BPM @ 5,262 PSI 6 BPM @ 5,347 PSI 10 BPM @ 5,663 PSI MAX PRESS - 5,699 PSI PDV- 55 BBLS</p> <p>PULL INTO POSITION & PERF INTERVALS FROM FTCBP 13,674' 13,654' - 55' 13,622' - 23' 13,589' - 90' 13,556' - 57' 13,523' - 24' 13,491' - 92'</p> <p>POOH ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE (IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.</p>
20:00 - 20:20	0.33	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	<p>LAI D DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS. PT LINES.</p>
20:20 - 00:00	3.67	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #19</p> <p>ATR: 67.3 BPM SW: 10,664 BBLS ATP: 6,956 PSI PDV: 49 BBLS MTR: 70.7 BPM TOTAL FLUIDS: 11,381 BBLS MTP: 8,329 PSI 100 M: 516,100 LBS</p> <p>15%: 28.6 BBLS ISIP - 4,966 PSIG FG - 0.870 PSI/FT</p> <p>NON-PRODUCTIVE TIME: 0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 19:59 WITH 4,352 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,189 PSI, 323 BBLS, AT 14.1 BPM AND A BREAK OF 5,613 PSI. INCREASED RATE, AND DECREASED FR CONCENTRATION PRESSURE PERMITTING. INCREASED FR TO 0.7 GPT 2.0 PPG TO PREPARE FOR FLUSH. FLUSHED AT 70 BPM. DROPPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 200 BBLS. ALL PROPPANT PLACED. HAD A PRESSURE SPIKE ON 1.25 PPG SAND STAGE SLOW DOWN RATE AND CAME BACK UP TO 1FR PRESSURE LINED OUT COMPLETED JOB WITH NO FURTHER ISSUES</p>