



WINS No: H9729

YELLOWJACKET UL UNIT 19-3 14H

Date: 5/11/2017

AFE No: 2104225

## Daily Completion and Workover Report

DOL:

## PERFORATIONS

ZONE	DATE	SIDETRACK #	STATUS	TYPE	TOP (usft)	BASE (usft)
	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
	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 7 - 10 STAGE. PLACING 2,078,300 LBS OF 100 MESH IN 46,884 BBLs OF SW.

PLUG AND PERF STG #8 - 11 WITH (96) SHOTS OF EXP-2716-421T CHARGES, 16 GM 0.38" EHD 4 SPF FROM 15,896' - 15,120'

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## OPERATION DETAILS

HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
00:00 - 02:15	2.25	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	STG #7 FRAC  ATR: 68.9 BPM      SW: 10,790 BBLS ATP: 7,426 PSI      PDV: 107 BBLS MTR: 69.7 BPM      TOTAL FLUIDS: 11,754 BBLS MTP: 7,669 PSI      100 M: 519,940 LBS  15%: 28.6 BBLS ISIP - 4,915 PSIG FG - 0.863 PSI/FT  NON-PRODUCTIVE TIME: 0.00 HRS STAGE REMARKS: OPENED WELL AT 22:50 WITH 4,397 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 4,908 PSI, 395 BBLS, AT 10.0 BPM AND A BREAK OF 5,381 PSI. DECREASED FR THROUGH OUT THE STAGE AS WELL AS INCREASED RATE, PRESSURE PERMITTING. INCREASED FR TO 1.0 GPT ON 2.0 PPG SAND STAGE TO PREPARE WELLBORE FOR FLUSH. INCREASED RATE TO 70 BPM FOR FLUSH. PUMPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 350 BBLS. ALL PROPPANT PLACED.
02:15 - 02:28	0.22	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.
02:28 - 04:00	1.53	FRAC	37 P - PERFORATING	E - PERFORATE CASING	STAGE #8.  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 @ 5,390 PSI 6 BPM @ 5,500 PSI 10 BPM @ 5,799 PSI  MAX PRESS - 5,827 PSI PDV- 107 BBLS  PULL INTO POSITION & PERF INTERVALS FROM FTCBP 15,915' 15,895' - 00' 15,862' - 67' 15,830' - 34' 15,797' - 02' 15,764' - 69' 15,731' - 36'  POOH ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.
04:00 - 04:25	0.42	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	LAID DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS.
04:25 - 07:52	3.45	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	STG #8  ATR: 69.7 BPM      SW: 10,760 BBLS ATP: 7,335 PSI      PDV: 104 BBLS MTR: 70.4 BPM      TOTAL FLUIDS: 11,716 BBLS MTP: 8,572PSI      100 M: 519,280 LBS  15%: 28.6 BBLS ISIP - 4,926 PSIG FG - 0.864 PSI/FT  NON-PRODUCTIVE TIME: 0.00 HRS STAGE REMARKS: OPENED WELL AT 04:27 WITH 4,476 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,072 PSI, 344 BBLS, AT 10.0 BPM AND A BREAK OF 5,372 PSI. INCREASED RATE, PRESSURE PERMITTING. INCREASED RATE TO 70 BPM FOR FLUSH. PUMPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 350 BBLS. ALL PROPPANT PLACED.
07:52 - 08:24	0.53	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.

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HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
08:24 - 10:16	1.87	FRAC	37 P - PERFORATING	E - PERFORATE CASING	<p>STAGE #9.</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 &amp; FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 290 - 350 FPM</p> <p>3 BPM @ 5,400 PSI 6 BPM @ 5,500 PSI 10 BPM @ 5,628 PSI</p> <p>MAX PRESS - 5,725 PSI PDV- 99 BBLS</p> <p>PULL INTO POSITION &amp; PERF INTERVALS FROM FTCBP 15,711' 15,691' - 92' 15,659' - 60' 15,626' - 27' 15,593' - 94' 15,560' - 61' 15,528' - 29'</p> <p>POOH ABOVE TOOL TRAP &amp; CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.</p>
10:16 - 10:40	0.40	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	LAID DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS.
10:40 - 14:20	3.67	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #9</p> <p>ATR: 65.5 BPM                      SW: 10,836 BBLS ATP: 7,291 PSI                      PDV: 100 BBLS MTR: 70.3 BPM                      TOTAL FLUIDS: 11,786 BBLS MTP: 8,173 PSI                      100 M: 519,840 LBS</p> <p>15%: 28.6 BBLS ISIP - 4,909 PSIG FG - 0.860 PSI/FT</p> <p>NON-PRODUCTIVE TIME:                      0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 04:27 WITH 4,476 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 5,072 PSI, 344 BBLS, AT 10.0 BPM AND A BREAK OF 5,372 PSI. INCREASED RATE, PRESSURE PERMITTING. INCREASED RATE TO 70 BPM FOR FLUSH. PUMPED 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 350 BBLS. ALL PROPPANT PLACED.</p>
14:20 - 14:31	0.18	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.

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HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
14:31 - 16:46	2.25	FRAC	37 P - PERFORATING	E - PERFORATE CASING	<p>STAGE #10.</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 &amp; FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 290 - 350 FPM</p> <p>3 BPM @ 5,380 PSI 6 BPM @ 5,555 PSI 10 BPM @ 5,680 PSI</p> <p>MAX PRESS - 5,757 PSI PDV- 100 BBLS</p> <p>PULL INTO POSITION &amp; PERF INTERVALS FROM FTCBP 15,508' 15,488' - 89' 15,455' - 56' 15,422' - 23' 15,389' - 90' 15,357' - 58' 15,324' - 25'</p> <p>POOH ABOVE TOOL TRAP &amp; CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.</p>
16:46 - 17:18	0.53	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	LAID DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS.
17:18 - 20:45	3.45	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #10</p> <p>ATR: 67.3 BPM                      SW: 10,740 BBLS ATP: 7,161 PSI                      PDV: 91 BBLS MTR: 69.7 BPM                      TOTAL FLUIDS: 11,628 BBLS MTP: 8,365 PSI                      100 M: 519,240 LBS</p> <p>15%: 28.6 BBLS ISIP - 4,856 PSIG FG - 0.860 PSI/FT</p> <p>NON-PRODUCTIVE TIME:        0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 17:18 WITH 4383 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 4,880 PSI, 371 BBLS, AT 10.2 BPM AND A BREAK OF 5,110 PSI. INCREASED RATE, PRESSURE PERMITTING. UNUSUAL PRESSURE INCREASE DURING 2 PPG STAGE, DROPPED RATE AND CUT SAND. PRESSURE BROKE OVER, STARTED SAND AT 2 PPG AGAIN TO FINISH REMAINDER OF TREATMENT. FLUSH AT 68 BPM. 20 GALLONS OF STIM GEL BEFORE MARKING FLUSH. OVER-FLUSHED 300 BBLS. ALL PROPPANT PLACED.</p>
20:45 - 21:00	0.25	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.

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## OPERATION DETAILS

HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
21:00 - 22:26	1.43	FRAC	37 P - PERFORATING	E - PERFORATE CASING	STAGE #11.  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 @ 5,240 PSI 6 BPM @ 5,370 PSI 10 BPM @ 5,540 PSI  MAX PRESS - 5,642 PSI PDV- 91 BBLs  PULL INTO POSITION & PERF INTERVALS FROM FTCBP 15,304' 15,284' - 85' 15,251' - 52' 15,219' - 20' 15,186' - 87' 15,153' - 54' 15,120' - 21'  POOH ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE(IT WAS). LAY GUNS DOWN. CONFIRMED ALL SHOTS FIRED.
22:26 - 22:38	0.20	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	LAID DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS.
22:38 - 00:00	1.37	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	STG #11 FRAC AT REPORT TIME