

**WINS No: H9729****YELLOWJACKET UL UNIT 19-3 14H****Date: 5/13/2017****AFE No: 2104225****Daily Completion and Workover Report****DOL:**

OPERATE 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'

REPT NO. 12	OPERATOR ANADARKO E&P ONSHORE LLC	FIELD NAME YELLOWJACKET UL UNIT 19-3 15H / 14H PAD	SUPERVISOR / ENGINEER WENDELL SIMMONS / ALLISON LAY			
SPLIT DATE 03/02/2017	API 4230133110	STATE TEXAS	COUNTY LOVING	DIVISION US SOUTHERN REGION	RIG NAME	
CURRENT STATUS FRAC STG 19						
24 HR FORECAST FRAC OPS						
GL ELEV 2,770.0 (usft)	RKB 2,797.00 (usft)	FORMATION WOLFCAMP BETA	TMD	TVD	PBTMD	PBTVD
JOB # 2104225	JOB START DATE 4/20/2017	JOB OBJECTIVE DEVELOPMENT	AUTH COST / W1% \$ 7,711,692 / 75 %		DAY COST / CUM COST \$738,120 / \$3,273,764	

**CASING DETAILS**

ASSEMBLY	SIZE	INST DATE	FROM (usft)	TO (usft)	SIZE	WEIGHT	GRADE	THRDS

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	18,812.0
	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 &amp; 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 &amp; PERF INTERVALS FROM  FTCBP 14,286'  14,266' - 67'  14,233' - 34'  14,200' - 01'  14,167' - 68'  14,135' - 36'  14,102' - 03'</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>
02:15 - 02:40	0.42	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>
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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HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
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	LAI D 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	LAI D DOWN LUBRICATOR. VERIFIED ALL SHOTS FIRED. DROPPED BALL. GREASE FS. PT LINES.

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## OPERATION DETAILS

HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
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 &amp; 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 &amp; 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 &amp; 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>LAID 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>