

WINS No: H9729**YELLOWJACKET UL UNIT 19-3 14H****Date: 5/9/2017****AFE No: 2104225****Daily Completion and Workover Report****DOL:**

OPERATE SUMMARY: FRAC 2 - 3 STAGE. PLACING 23,514 LBS OF 100 MESH IN 1,033,860 BBLS OF SW.
 PLUG AND PERF STG #2-4 WITH (72) SHOTS OF EXP-2716-421T CHARGES, 16 GM 0.38" EHD 4 SPF FROM 17,118' - 16,547'.

REPT NO. 8	OPERATOR ANADARKO E&P ONSHORE LLC	FIELD NAME YELLOWJACKET UL UNIT 19-3 15H / 14H PAD	SUPERVISOR / ENGINEER WENDELL SIMMONS / BRADEN RIHA
SPIIID DATE 03/02/2017	API 4230133110	STATE TEXAS	COUNTY LOVING
DIVISION US SOUTHERN REGION		RIG NAME	

CURRENT STATUS
OOH WWL PNP STG #4

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	JOB OBJECTIVE DEVELOPMENT	AUTH COST / W1% \$ 7,711,692 / 75 %		DAY COST / CUM COST \$333,615 / \$858,504	

CASING DETAILS

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

PERFORATIONS

ZONE	DATE	SIDETR #	STATUS	TYPE	TOP (usft)	BASE (usft)

SUMMARY

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HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
00:00 - 01:10	1.17	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	SD MAKE REPAIRS TO COMPUTER AND BOOST PUMP.
01:10 - 04:30	3.33	FRAC	37 P - PERFORATING	B - OVERBALANCED PERF.	<p>STAGE 2</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, CORRELATE TO PBR TOP (10,723')</p> <p>3 BPM @ 4,200 PSIG 6 BPM @ 4,300 PSIG 9 BPM @ 4,400 PSIG</p> <p>MAX PRESS - 5,250 PSIG PDV - 195 BBLS</p> <p>SET SUPERIOR 3.50" FTCBP@ 17,137' ELMD. PULL INTO POSITION & PERF INTERVALS FROM 17,117' - 07' 17,085' - 75' POOH. GET ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE (IT WAS) OPEN VALVE BACK UP & CLOSE HYDAULIC FRAC VALVE. LAY GUNS DOWN. OOH WL PLUG SET AND ONLY BOTTOM 2 GUNS FIRED. INSPECT GUN STRING AND FOUND GUN #3 CAP SHORTED OUT. CHANGE OUT GUN STRING</p>
04:30 - 08:30	4.00	FRAC	37 P - PERFORATING	B - OVERBALANCED PERF.	<p>STAGE 2 P&P</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, CORRELATE TO PBR TOP (10,723')</p> <p>3 BPM @ 4,200 PSIG 6 BPM @ 4,300 PSIG 9 BPM @ 4,400 PSIG 12 BPM @ 5,250 PSIG</p> <p>MAX PRESS - 5,250 PSIG PDV - 265 BBLS</p> <p>PULL INTO POSITION & PERF INTERVALS FROM 17,052' - 53' 17,019' - 20' 16,986' - 87' 16,954' - 55' POOH. GET ABOVE TOOL TRAP & CLOSE UPPER FRAC VALVE TO MAKE SURE TOOL STRING WAS ABOVE (IT WAS) OPEN VALVE BACK UP & CLOSE HYDAULIC FRAC VALVE. LAY GUNS DOWN. OOH WL PLUG SET AND ONLY BOTTOM 2 GUNS FIRED. INSPECT GUN STRING. ALL GUNS FIRED</p>
08:30 - 09:00	0.50	FRAC	34 P - WIRELINE	1 - RU / RD WIRELINE	LAI D DOWN LUBRICATOR, VERIFIED ALL SHOTS FIRED. DROPPED BALL.

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HOURS	DUR (hr)	PHASE	CODE	SUB	DESCRIPTION
09:00 - 12:28	3.47	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #2</p> <p>ATR: 63 BPM SW: 10,817 BBLS ATP: 7,420 PSI PDV: 158 BBLS MTR: 70 BPM TOTAL FLUIDS: 11,749 BBLS MTP: 8,700 PSI 100 M: 519,000 LBS 15%: 28 BBLS</p> <p>ISIP - 4,675 PSIG FG - 0.839 PSI/FT</p> <p>NON-PRODUCTIVE TIME: 6.50 HRS</p> <p>STAGE REMARKS: DELAY PRIOR TO WIRELINE RUN, FRAC HAD TO SETUP THEIR PC IN THE WIRELINE TRUCK AND DIAGNOSE SOFTWARE ISSUES (22:23-00:54, 2.5 HRS NPT). WIRELINE MISRUN, ONLY TWO GUNS WENT OFF ON INITIAL RUN (04:30-08:15, 3.8 HRS NPT). DELAY STARTING THE FRAC TO FIX ISSUE WITH CAMERA (08:15-08:30, 0.25 HRS NPT). OPENED WELL AT 18:45 WITH 4,255 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 4,727 PSI, 347 BBLS. AT 7.9 BPM AND A BREAK OF 5,298 PSI. DECREASED FR THROUGHOUT 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 (10 BPM OVER DESIGN - OR AS PRESSURE ALLOWED) AFTER CUTTING BLENDER SCREWS FOR FLUSH. PUMPED 20 GALLONS OF STIM GEL AT THE BEGINNING OF FLUSH. OVER-FLUSHED 250 BBLS. ALL PROPPANT PLACED. PUMP 3627 WAS TAKEN OFFLINE DURING PAD DUE TO A KICK OUT MALFUNCTION. CLEAN SIDE BOOST PUMP WAS DISENGAGED TOO EARLY AT THE END OF FLUSH.</p>
12:28 - 12:50	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>
12:50 - 17:14	4.40	FRAC	37 P - PERFORATING	E - PERFORATE CASING	<p>STAGE #3.</p> <p>RIH W/ (6) - 1' X 2.750" (24 SHOTS) GUN W/ TITAN EXP-2716-421T CHARGES, 16GM 0.38" EHD LOADED 34SPF, 60 DEG PHS & FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 290 - 350 FPM</p> <p>2 BPM @ 4,380 PSI 4 BPM @ 4,550 PSI 6 BPM @ 4,620 PSI 8 BPM @ 4,870 PSI</p> <p>MAX PRESS - 5,830 PSI PDV- 345 BBLS</p> <p>PULL INTO POSITION & PERF INTERVALS FROM FTCBP 21,614' 16,914' - 15' 16,881' - 82' 16,848' - 49' 16,815' - 16' 16,783' - 84' 16,750' - 51'</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. NOTE: POOH W/WL 12,435' TAKING WEIGHT STARTED PUMP DOWN TRUCKS 4 BPM WORK UP 8 BPM CAN'T MOVE DOWN, WORK WL UP & DOWN CAN'T MOVE. CALL BUCK FIELDS WE DECIDED USE FRAC SIDE. STARTED PUMPS 4 BPM WORK 8 BPM STARTED FR PUMP 440 BBLS FR TOP WL TOOLS. INCREASED TO 10 BPM WL TOOLS CAME FREE PUMP DOWN 14,000' SD PUMPS POOH PUMPING 2 BPM @ TOL SD PUMPS. OOH @ 17:14 LAY DOWN LUBE ALL GUNS FIRED SETTING TOOL CLEAN LITTLE SAND IN FISHING NECK. CURRENTLY: FRAC STG #3.</p>
17:14 - 17:40	0.43	FRAC	36 P - FRACING	1 - RU / RD FRAC EQP	<p>LAID DOWN LUBRICATOR. VERIFIED ALL SHOTS FIRED. DROPPED BALL.</p>

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17:40 - 21:14	3.57	FRAC	36 P - FRACING	H - SAND SLICKWATER FRAC	<p>STG #3</p> <p>ATR: 67 BPM SW: 10,770 BBLS ATP: 7,437 PSI PDV: 127 BBLS MTR: 70 BPM TOTAL FLUIDS: 11,765 BBLS MTP: 8,011 PSI 100 M: 514,860 LBS 15%: 28 BBLS</p> <p>ISIP - 4,803 PSIG FG - 0.853 PSI/FT</p> <p>NON-PRODUCTIVE TIME: 0.00 HRS</p> <p>STAGE REMARKS: OPENED WELL AT 17:51 WITH 4,321 PSI. PUMPED 1,200 GALLONS 15% HCL ACID (GOOD BREAK). BALL SEAT OBSERVED AT 4,792 PSI, 339 BBLS, AT 8.0 BPM AND A BREAK OF 5,218 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 (10 BPM OVER DESIGN - OR AS PRESSURE ALLOWED) AFTER CUTTING BLENDER SCREWS FOR FLUSH. PUMPED 20 GALLONS OF STIM GEL AT THE BEGINNING OF FLUSH. OVER-FLUSHED 350 BBLS. ALL PROPPANT PLACED.</p>
21:14 - 21:52	0.63	FRAC	34 P - WIRELINE	1 - RU / RD WIRELINE	<p>P/U 3.5" SUPERIOR BOSS HOG PLUG AND GUNS. EQUALIZE PRESSURE TO 5,200 PSIG. OPEN HYDRAULIC MASTER VALVE. RIH</p>
21:52 - 00:00	2.13	FRAC	34 P - WIRELINE	H - WIRELINE PERFORATION	<p>STAGE #4.</p> <p>RIH W/ (8) - 1' X 2.750" (24 SHOTS) GUN W/ TITAN EXP-2716-421T CHARGES, 16GM 0.38" EHD LOADED 3 SPF, 60 DEG PHS & FTCBP. PUMP TOOLS DOWN IN LATERAL SECTION, RUN SPEED: 290 - 350 FPM</p> <p>3 BPM @ 4,372 PSI 4 BPM @ 4,400 PSI 9 BPM @ 4,500 PSI</p> <p>MAX PRESS - 4,684 PSI PDV- 127 BBLS</p> <p>PULL INTO POSITION & PERF INTERVALS FROM FTCBP 16,730' 16,710' - 11' 16,677' - 78' 16,644' - 45' 16,616' - 17' 16,579' - 80' 16,546' - 47'</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>