

Expro Excellence

VERSAFLO™ Switch delivers 6+ hours of savings for deep water Mediterranean operator's complex drilling and liner operations

Well Construction | Frank's Tubular Running Services (TRS)



Objectives and background

 A major IOC sought a solution to reduce time to trip out of hole with 12 1/4" drilling assembly as well as saving time to manage mud flow back while running 10" liner landing string in deep water drilling operations in the Mediterranean

Expro Excellence

Expro offered its VERSAFLO™ Switch patented flowback, fill-up and circulation tool that perfectly fits our client's request to pump out of hole quickly and efficiently with the drill string on elevators, while circulating with the tool's packer assembly. The VERSAFLO™ Switch was also proposed to run the landing string to take flowback without the need to mechanically connect the top drive to the drill string. Additional efficiencies can be seen by being able to install the VERSAFLO™ casing module and take flow back if required through the casing without the need to rig up separate tools for drill string and casing

Running landing string with VERSAFLO $^{\rm TM}$

Running landing string without VERSAFLO $^{\text{TM}}$

ROP Inst 0 (m/hr) 100	Hookload Calc. (ktb) 0 800	4	ROP Inst Hookload Cale. (lith) 0 (m/hr) 100 0 800
Block Position (m)	Hookload Avg (klb)	l H	Block Position (m) Hookload Avg (kib)
-5 `55	0 800	DATE & TIME	-5 0 800 DATE & TIME
8 PWD (ppg) 18	-50 WOB Avg (Mb) 50		8 PWD (ppg) 18 -50 WOB Avg (Mb) 50
tole Death ECD Bit Death	H.O.B	ESD Avg	tole Death ECD Bit Death H.O.B ESD Avg
4155.4 3032.7	186 0 0	22-May-24 02:00	2326.1 1250.4 173 00 00 02-Mar-24 22:00
4155.1 3082.7	650	1	2326.1 1251.2 275 0.0 23
4155.1 3044.1	649 00 1	l l	2326.1 1260.8 509 0.0 -17
4155.1 3057.1	647 0.0 4	l l	2326.1 1270.4 503 0.0 -11
4255.1 26 3070.4	645 0.0 5	ŀ	2326.1 1280.0 498 0.0 6
4155.1 3074.0	190 0 0	22-May-24 02:10	2526.1 40 1209.31495 0,01 -3102-Mar-24 22:101
4155.1 3074.0	174 00 50	l l	2326.1 1291.4 208 00 5 0
4155.1 3073.5	658 0.0	i i	2326.1 1291.4 167 0.0 0
4155.1 3085.8	659 00 -0		2326.1 1201.4 171 0.0 0
4155,1 3099,1	656 0,0 3		2326.1 1291.4 172 0.0 0
4155.1 27 3112.0	652 0.0 7	22-May-24 02:20	2326.1 1291.4 172 0.0 0 02-Mar-24 22:20
4155.1 3114.8	191 00 0	1	2326.1 1291.4 173 0.0 > 0
4155.1 3114.8	181 00 0	l l	2326.1 1292.3 527 0.0 7 529
4155.1 3122.9	665 0.0 1	l N	2326.1 1301.9 517 0.0 -20
4155.1 3136.0	663 0.0 3	l l	2326.1 1311.4 514 0.0 -16
4155.1 28 3149.2	660 0,4 6	22-May-24 02:30	2329.1 1321.0 500 0.0 -10 02-Mar-24 22:30
4155.1 3155.8	173	i i	2526.1 14 1330.5 504 -0.0 6
4155.1 3155.8	672	l l	2326.1 1332.2 180 0 0 0
4155.1 3166.8	671 00 2	l l	2326.1 1332.2 165 0.0 0
4155.1 3179.8	666 0.d 7		2326.1 1332.2 172 0 0 0
4955.1 29 3193.0	666 0.0 7	22-May-24 02:40	2326.1 1302.2 172 0 0 0 02-Mar-24 22:40
4155.1 3197.1	1861 0.0 0		2326.1 1332.2 173 0.0 0
4155.1 3197.1	184 0 0 0	l l	2326.1 1332.2 173 0.0 0
4155.1 3197.1	184 00 0	l l	2326.1 1332.2 174 00 5 0
4155.1 3196.9	690 0.0	l l	2326.1 1633.9 536 0.0 33
4155.1 5203.6	675 3.0 5	22-May-24 02:50	2326.1 1343.5 520 0.0 -24 02-Mar-24 22:50
4155.1 3216.3	674 00 -2 673		2326.1 1353.1 521 0.0 18
4155.1 30 3229.6	673 00 -0		2326.1 1361.5 518 0.0 -15
4155[1 3237.9	194/ 0.0 0		2326.1 1367.6 517 0.0 14
4155.1 3287.9	177 0 0 0		181 00 5
4155.1 3287.0	500 00	22-May-24 03:00	2326.1 1372.9 184 0.0 0 02-Mar-24 23:00

Value to the client

- The drilling assembly was successfully circulated out of hole with the aid of the VERSAFLO™ Switch tool, saving our client a minimum of 50% of each connection times. Likewise, the 10" liner landing string was successfully run with VERSAFLO™ Switch to take mud flow back
- Cumulative rig-time saved is 6-7 hours equating to an estimated \$240,000 USD of total rig-time costs
- The VERSAFLO™ Switch significantly reduced the amount of mud spilling on rig floor providing further fluids cost savings
- HSE exposure was improved by reducing personnel entry into the red-zone during operations; the VERSAFLO™ is operated from a wireless console inside the drill-shack
- Reduced wear and tear, improved life of consumable rig equipment (Saver sub and IBOP valve) saving additional costs and keeping personnel out of harm's way



With VERSAFLO™
Switch connection
times are reduced,
but it is not just
that, it is how clean
the rig floor is kept
utilizing the tool and
how it helps reduce
the amount of time
personnel are in the
red zone. Very happy
with the tool and the
personnel and we
will see you again on
the next well.



