



MAXWELL PRODUCTION

CONTINUOUS MOVING JET SLOTTING PERFORMANCE TECHNOLOGY FOR VERTICAL AND HORIZONTAL WELLS

PROGRAM FOR CALCULATION OF THE TECHNOLOGICAL PARAMETERS FOR HSP PROCESS

INITIAL PARAMETERS

WELL

BPTD	TOTAL	5225.00	feet	0.00	meters
	PACKER	0.00	feet	0.00	meters
CASING	OD	5.50	inches	0	mm
	ID	4.95	inches	0	mm
TUBING	OD	2.88	inches	0	mm
	ID	2.00	inches	0	mm
CEMENT	DRILL BIT	7.87	inches	200	mm

TOOL

LENGTH	TOTAL	21.30	feet	0.00	meters
	TOOL	11.20	feet	3.41	meters
	PIPE JOINT	6.00	feet	1.83	meters
	MARKER	4.10	feet	1.25	meters
	TUBING	31.50	feet	9.60	meters

NOZZLES

QUANTITY	2	3	4	5
	No	No	Yes	No

SETTINGS

TEMPERATURE TD	180	F°	82	C°
PRESSURE	5000	psi	34.5	Mpa
SAND CONCENTRAT	0.25	ppg	30	kg/m³
DENSITY	8.48	ppg		
SLURRY RATE	5.54	bbl./min	0.65	m³/min

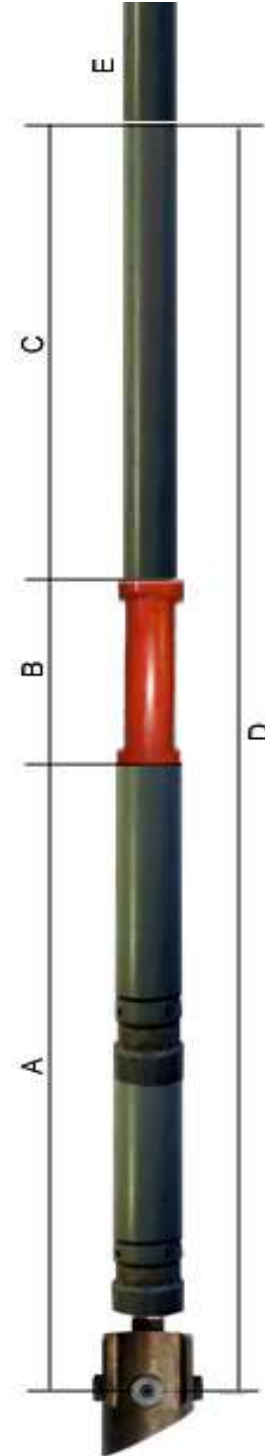
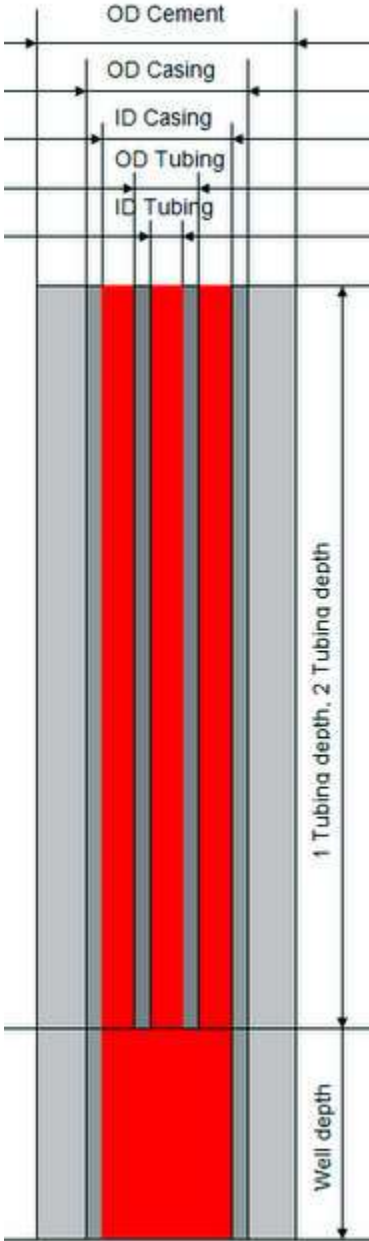
NITROGEN

PERCENTAGE	5%	10%	15%	20%
	No	No	Yes	No

SPEED

Conformity by graph	70.0	C°	3.50	mm/min
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INTERVALS



1	4914.83	→	4916.14	feet	0.00	→	0.00	meters	
2	4912.86	→	4914.17	feet	0.00	→	0.00	meters	
3	4910.89	→	4912.20	feet	0.00	→	0.00	meters	
4	4908.59	→	4910.23	feet	0.00	→	0.00	meters	
5	4906.30	→	4907.94	feet	0.00	→	0.00	meters	
6	4904.00	→	4905.64	feet	0.00	→	0.00	meters	
7	4888.78	→	4890.00	feet	0.00	→	0.00	meters	
8	4886.48	→	4888.12	feet	0.00	→	0.00	meters	
9	4884.19	→	4885.83	feet	0.00	→	0.00	meters	
10	4881.89	→	4883.53	feet	0.00	→	0.00	meters	
11	4879.59	→	4881.23	feet	0.00	→	0.00	meters	

12	4877.30	→	4878.94	feet	0.00	→	0.00	meters		
13	4875.00	→	4876.64	feet	0.00	→	0.00	meters		
14	0.00	→	0.00	feet	0.00	→	0.00	meters		
15	0.00	→	0.00	feet	0.00	→	0.00	meters		
16	0.00	→	0.00	feet	0.00	→	0.00	meters		
17	0.00	→	0.00	feet	0.00	→	0.00	meters		
18	0.00	→	0.00	feet	0.00	→	0.00	meters		
19	0.00	→	0.00	feet	0.00	→	0.00	meters		
20	0.00	→	0.00	feet	0.00	→	0.00	meters		

OUTGOING RESULTS

TOOLS

TUBING	157	sections		
SCRAPER	4.93	inches	0.00	mm
CALIBER	4.93	inches	0.00	mm

VOLUMES

VOLUME	WELL (CASING)	124.4	Bbl.	0.0	m ³				
	TUBING (UP/DOWN)	20.2	→	20.4	Bbl.	0.0	→	0.0	m ³
	WATER TANK	176.8	Bbl.	0.0	m ³				
	CUTTING TANK	124.8	Bbl.	0.0	m ³				
LEVEL	(MAX IN THE WELL)	855.8	feet	#DIV/0!	meters				

SAND

SAND	61	US tons	0	tons
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TIME

CUTTING	20.67	hours	0	min					
FLUSHING	3.70	hours	1	min	SAND → NOZZLES	5	min		
LIFTING	↕	5.02	hours	3	min	NOZZLES → SURFACE	28	min	

ROCK

NOZZLES

NOZZLES REPLACEMENT AFTER	6	interval	4904.00	feet	0.00	meters
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INSTALLATION

TUBING ELONGATION	↑	0.96	feet	#DIV/0!	meters
TUBING ELONGATION	↓	1.09	feet	#DIV/0!	meters
DEPTH	FOR LOGGING	0.00	feet	0.00	meters
	FIRST INTERVAL	4914.83	feet	0.00	meters
	INITIAL POSITION	4915.86	feet	#DIV/0!	meters

PRESSURE

HYDROSTATIC PRESSURE	2202	psi	0.0	Mpa	
LOSSES	SURFACE	147	psi	1.0	Mpa
	TUBING	423	psi	0.0	Mpa
	PERFORATOR	294	psi	2.0	Mpa
	SHAKER	220	psi	1.5	Mpa
	TOTAL	1084	psi	4.6	Mpa
NOZZLES DIFFERENCE	4213	psi	31.1	Mpa	

TREATMENT

SLOTS	GROSS	41.14	feet	0.00	meters					
	NET	19.91	feet	0.00	meters	VOLUME	11.64	feet ²	0.00	meters ²
DRAINAGE AREA	360	feet ²	0	meters ²	WEIGHT	0.93	US tons	0.00	tons	

ROCK

SLOTING

FIRST INTERVAL INSTALLATION				0.00	feet	0.00	meters	with elongation		
CUTTING	1	interval	4914.83	→	4916.14	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				1.97	feet	0.00	meters			
CUTTING	2	interval	4912.86	→	4914.17	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				1.97	feet	0.00	meters			
CUTTING	3	interval	4910.89	→	4912.20	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.30	feet	0.00	meters			
CUTTING	4	interval	4908.59	→	4910.23	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.29	feet	0.00	meters			
CUTTING	5	interval	4906.30	→	4907.94	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.30	feet	0.00	meters			
CUTTING	6	interval	4904.00	→	4905.64	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				15.22	feet	0.00	meters			
CUTTING	7	interval	4888.78	→	4890.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.30	feet	0.00	meters			
CUTTING	8	interval	4886.48	→	4888.12	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.29	feet	0.00	meters			
CUTTING	9	interval	4884.19	→	4885.83	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.30	feet	0.00	meters			
CUTTING	10	interval	4881.89	→	4883.53	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.30	feet	0.00	meters			
CUTTING	11	interval	4879.59	→	4881.23	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.29	feet	0.00	meters			
CUTTING	12	interval	4877.30	→	4878.94	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				2.30	feet	0.00	meters			
CUTTING	13	interval	4875.00	→	4876.64	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	14	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	15	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	16	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	17	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	18	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	19	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			
CUTTING	20	interval	0.00	→	0.00	feet	0.00	→	0.00	meters
LIFTING TUBING TO THE NEXT INTERVAL				0.00	feet	0.00	meters			

FLUSHING

LOWERING TUBING TO THE DEPTH				4915	feet	0	meters	flushing	0	minutes
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