



TUBULAR RUNNING SERVICES JOB REPORT

GENERAL ADMINISTRATION INFORMATION

CUSTOMER	ADA - 3D	RIG	West Triton
WELL NAME:	West Seahorse-3	WORK ORDER NO.:	SP019/08

FIELD OPERATIONS CHECKLIST

NOTE: ENSURE A SAFE WORKING ENVIRONMENT IS MAINTAINED THROUGHOUT THE JOB. ALL HSE INCIDENTS AND ACCIDENTS MUST BE REPORTED IMMEDIATELY TO THE RIG MEDIC AND THE WELL-SITE MANAGER INFORMED AS SOON AS POSSIBLE.

IMPORTANT FOR ALL WELLS!

Tick (x)
when done

1. WSM has signed this checklist and a copy is attached to the Service Ticket and passed to town.	<input checked="" type="checkbox"/>
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HEALTH, SAFETY, ENVIRONMENT & QUALITY

Tick (x)
when done

1. All HSE incidents and accidents are reported immediately to the rig medic, Well-Site Manager (WSM) and other personnel as required informed as soon as possible. (Enter N/A if no incidents)	<input checked="" type="checkbox"/>
2. Personnel to comply with all rig specific safety initiatives and directives e.g. mandatory attendance at safety meetings.	<input checked="" type="checkbox"/>
3. Copy of Checksheet left with WSM. (Woodside only - Key Performance Indicator (KPI) form is completed, reviewed and a copy left with WSM.)	<input checked="" type="checkbox"/>

PRE-OPERATIONAL CHECKS

Tick (x)
when done

1. Confirmation of <i>job details</i> are obtained on site.	<input checked="" type="checkbox"/>
2. Participation in Pre-Job Toolbox Talk (JSA).	<input checked="" type="checkbox"/>
3. Unloading of containers is done safely.	<input checked="" type="checkbox"/>
4. Confirmation of <i>equipment</i> shipped is obtained.	<input checked="" type="checkbox"/>
5. Confirmation of Rig Owned <i>equipment</i> available is obtained.	<input checked="" type="checkbox"/>
6. All <i>equipment</i> is visually inspected for damage in accordance with procedures.	<input checked="" type="checkbox"/>
7. If required, a Permit to Work is approved and the terms and conditions understood.	<input checked="" type="checkbox"/>
8. All <i>equipment</i> shipped (and rig owned as required for the operation) is function tested as per relevant procedures. Ensure all parts are free moving and suitably lubricated.	<input checked="" type="checkbox"/>
9. The size of the safety clamp is checked and if necessary, adjusted.	<input checked="" type="checkbox"/>
10. If supplied, the Stab-in Guide and Thread Protectors are checked and adjusted.	<input checked="" type="checkbox"/>
11. <i>Power tongs</i> are dressed for <i>tubular goods</i> outside diameter	<input checked="" type="checkbox"/>
12. <i>Power Unit</i> Safety shut down devices are tested.	<input checked="" type="checkbox"/>
13. <i>Power Tong</i> Safety Interlock is tested.	<input checked="" type="checkbox"/>
14. Ensure correct dies are fitted to Hand Slips, Elevators and Slip Inserts.	<input checked="" type="checkbox"/>
15. Permission is requested and obtained before entry into the derrick.	<input checked="" type="checkbox"/>
16. Derrick signals are established.	<input checked="" type="checkbox"/>
17. Inspection and testing of <i>Stabbing Board</i> is done – Pre-Op section of the Stabbing Board Report is completed.	<input checked="" type="checkbox"/>
18. <i>Tubular goods</i> on pipe deck are inspected for type and condition.	<input checked="" type="checkbox"/>
19. Ensure that all necessary <i>ancillary items</i> are available. If quantity getting low inform Materials Representative.	<input checked="" type="checkbox"/>
20. Inspect drill-floor and perform preparatory work.	<input checked="" type="checkbox"/>
21. Ensure ALL <i>safety wires</i> for Flagging Devices, Wheels and Retainers are installed and in good servicable order replace as necessary.	<input checked="" type="checkbox"/>
22. <i>Appropriate remedial action</i> is taken if shortages, omissions, damage, or incompatibilities are identified.	<input checked="" type="checkbox"/>
23. <i>Difficulties in carrying out instructions</i> in accordance with company and customer <i>policies, procedures and legislation</i> are clarified with the person in charge.	<input checked="" type="checkbox"/>

TORQUE FIGURES (Company Rep's Approval Required)

Tick (x)
when done

Pipe Size	Type	Weight	Grade	Shoulder Torque	FT/LBS		Maximum Torque	Turns Program		Company Rep's Signature
					Minimum Torque	Optimum Torque		Min	Max	
13 3/8	Buttress	68ppf	L 80	0	0		0	0.0	0.0	
30	D60/MT	0.00	0	0	0	30,000	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	

Confirmation NOT to run a no-cross coupling (Company Rep's Approval Required)

Tick (x)
when done

Company Rep's Signature
Type of Housing:

DRIFT PARAMETERS (Drift Requirements of Tubing and Casing)

Tick (x)
when done

Pipe Size	Type	Weight	Grade	Required Drift OD		Actual Drift OD		Special Drift Requirement		Company Rep's Signature
				OD	ASAS	OD	ASAS	OD	ASAS	
13 3/8	Buttress	68ppf	L 80	0		0	0			
0	0	0.00	0	0		0	0			
0	0	0.00	0			0	0			
0	0	0.00	0	0	0	0	0			
0	0	0.00	0	0	0	0	0			
0	0	0.00	0	0	0	0	0			

GENERAL ADMINISTRATION INFORMATIONCUSTOMER **ADA - 3D**RIG **West Triton**WELL NAME: **West Seahorse-3**WORK ORDER NO.: **SP019/08****FIELD OPERATIONS CHECKLIST****RIG UP**Tick (x)
☐ when done

1. <i>Power Unit</i> is sited in a safe position.	X
2. If used, <i>JAM system</i> is sited in a safe position.	X
3. Hydraulic hoses are safely routed and do not pose a tripping hazard.	X
4. Airlines have 'R' clips and/or Whip-lines fitted.	X
5. <i>Equipment</i> is transported safely to the drill-floor.	X
6. The position of <i>equipment</i> during operation is agreed and used.	X
7. The <i>Power Tong</i> hanger spring and lift ram are attached securely to tong.	X
8. The <i>Power Tong</i> is securely and safely suspended.	XX
9. The Torque gauge assembly is fitted to tong with the damper open (If not using JAM)	XX
10. A correctly rated tong snub line is selected.	X
11. The Elevator is installed to the travelling block bails safely.	X
12. Suspend Single Joint Elevator from travelling block, if required.	X
13. Emergency exits are kept clear of obstacles.	X
14. <i>Difficulties in carrying out instructions</i> in accordance with company and customer <i>policies, procedures and legislation</i> are clarified with the person in charge.	X

OPERATIONTick (x)
☐ when done

1. <i>Power Unit</i> started and correct working pressure selected.	X
2. <i>Equipment</i> is used as per relevant procedures and work instructions.	X
3. <i>Tubular goods</i> are handled, made up and broken out to Client requirements.	X
4. Thorough crew-change hand over is done.	X
5. Participation in Pre-Job/Tour Toolbox Talk.	X
6. <i>Difficulties in carrying out instructions</i> in accordance with company and customer <i>policies, procedures and legislation</i> are clarified with the person in charge.	X

RIG DOWNTick (x)
☐ when done

1. Permission obtained from Client Representative to rig down.	X
2. Method of rig down agreed with driller.	X
3. <i>Power Tong</i> Lift Ram is retracted, if fitted.	X
4. <i>Power Unit</i> shut down.	X
5. <i>Power Tong</i> lowered safely to the floor.	X
6. Hydraulic hoses disconnected.	X
7. Hanging line and snub line removed.	X
8. Torque gauge assembly removed, damper closed and stored in basket.	X
9. If used, <i>JAM system</i> cables disconnected and JAM equipment stored in container.	X
10. Jaws, lift ram, hanger spring removed and stored in basket.	X
11. Handling <i>equipment</i> rigged down.	X
12. Arrange for <i>equipment</i> to be removed from the floor.	X
13. Return the work site to normal condition.	X

POST OPERATIONAL CHECKSTick (x)
☐ when done

1. If required, Permit to Work closed off.	X
2. All <i>equipment</i> assembled in a safe area.	X
3. All <i>equipment</i> cleaned.	X
4. Repairs carried out if <i>equipment</i> to remain onboard.	X
5. Bare metal areas protected from corrosion and all points greased.	X
6. Re-pack <i>equipment</i> in containers and fit covers (assist deck crew if crane required).	X
7. Hydraulic hoses coiled back in <i>power unit</i> .	X
8. <i>Equipment</i> prepared for back-load.	X
9. All <i>relevant paperwork</i> completed.	X
10. Feedback invited from the Client.	X

PLEASE COMMENT IF PROBLEMS MET IN COMPLYING WITH ANY ASPECT OF THE CHECKLIST

Weatherford Representative:

Date

Signed:

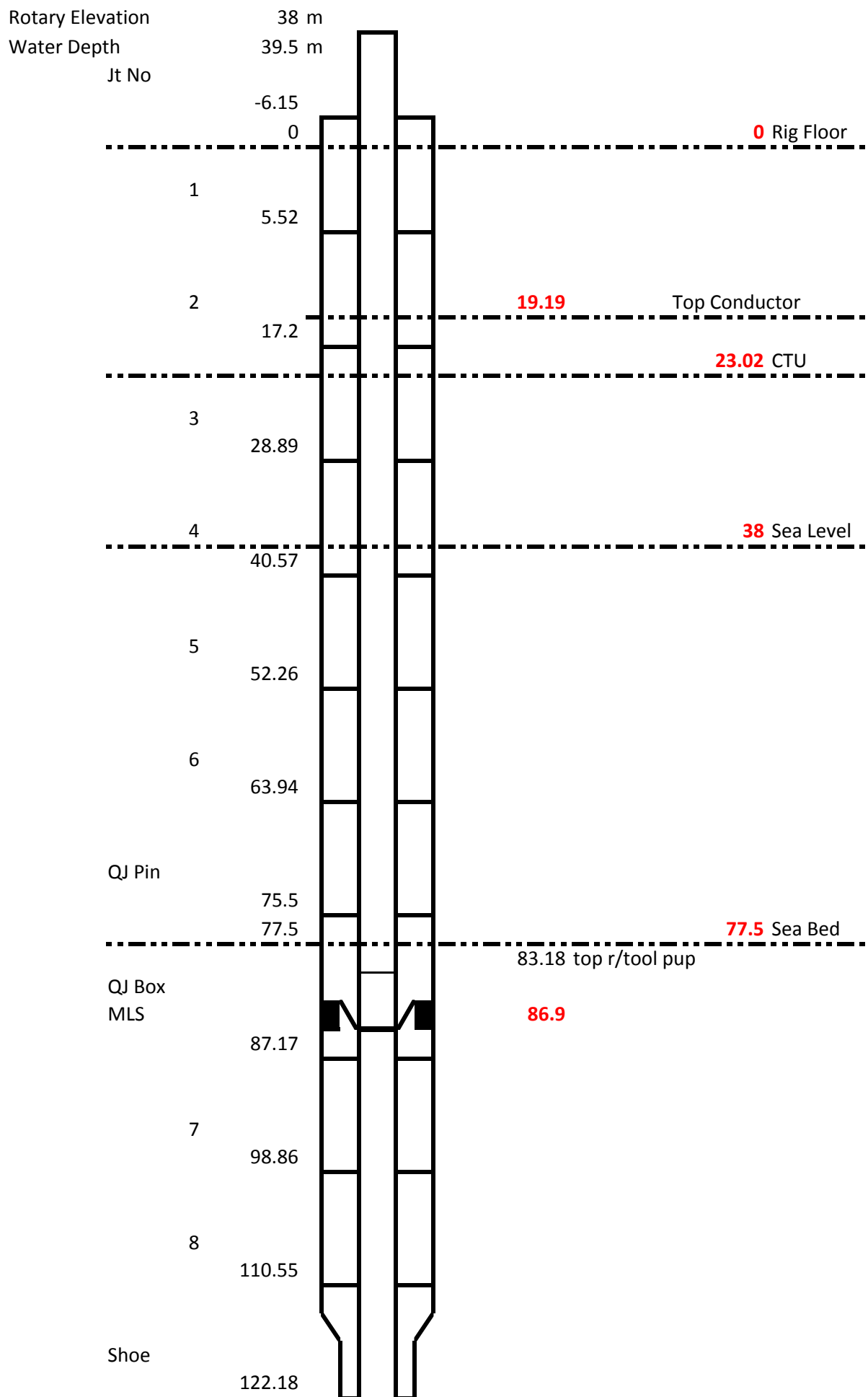
Contractor Representative:

Date

Signed:

GENERAL ADMINISTRATION INFORMATIONCUSTOMER **ADA - 3D**RIG **West Triton**WELL NAME: **West Seahorse-3**WORK ORDER NO.: **SP019/08****FIELD OPERATIONS CHECKLIST****RANGE STATEMENT**

Difficulties in carrying out instructions	unclear instructions, imprecise details, lack of information. conflicts with operational procedures.
Appropriate remedial action	rectify, report, repair, replace, adjust.
Job Details	running and handling practices and procedures, Well name, work scope
Equipment	includes but is not limited to Power Tongs, Power Units, Safety Clamps, Stab in Guides, Elevators, Hand Slips, Power Slips, Thread Protectors, Single Joint Compensator (SJE), JAM systems, A-Q-Tork, Centrifugal Dope
Power Unit	Electric, Diesel, Rig Supplied Power.
Power Tongs	includes but is not limited to Weatherford Power Tong models 5.5 complete with Back Up, 7.625 complete with Back Up, Lamb 16/18, Lamb 16/25, 14-50, 24-50, Dual Completion Tong
JAM System	includes but is not limited to JAM 2000 IS, LV-2, XP-1, JAM Pro
JAM equipment	includes but is not limited to Load Cell, Turns counter, cables, dump valve, Remote Control Unit (RCU)
Stabbing Board	includes but is not limited to Rail Mounted Board, Cherry Picker style, Cage fitted to pipe handler.
Ancillary items	Thread Compounds, Centralisers, Stop Collars, Cement Plugs, Darts, TDCH, Solvent, Rags
Tubular goods	Casing, Tubing, Sub Assemblies
Relevant paperwork	WIS operations field reports, Job Tickets, Back Load Lists, Customer specific reports and forms.
Preparatory work	place accessories on rig floor, run hydraulic hoses, ensure correct shackles available, obtain snub lines.
Safety Wire, Safety Slings	Includes retaining wire, safety retaining wire, SJE safety pin wire, elevator bell guide slings, All securing wire whether load rated and certified or not.
Policies, procedures and legislation	company and customer work instructions and procedures, health and safety at work manuals, Occupational Health and Safety at work Acts, PPE.



30" Tally		13-3/8 Deck Tally	
Joint No	Length		
Shoe	11.63	1	11.45
1	11.67	2	11.58
2	11.68	3	11.69
3	11.69	4	11.61
4	11.68	5	11.45
5	11.69	6	11.63
6	11.68	7	11.36
7	11.69	8	11.51
8	11.69	9	11.69
9	11.67	10	11.65
QJ Pin	11.56	TOTAL	57.56
QJ Box	11.67		

6.06 Length of pipe below wellhead flange

0.36 Adjuster Nut (mid stroke)

3.72 effective length r/tool & pup joint above MLS land off point

10.14 TOTAL OF FIXED MEASUREMENTS

19.19 TOP OF CONCUCTOR BELOW RIG FLOOR (Final Cut)

57.57 Length of 13-3/8 Casing required

Tubular Running Services Job Report

Customer: ADA - 3D **Attention:** Neil Hensen

Prepared by: Ryan Ingram
Email: ingram80@hotmail.com

Rig / Installation: West Triton

Drilling Contractor: Sea Drill

Company Rep's (D/N): Shaughan Corless
Rocco

Completion Eng (D/N) :

Job Description: 13 3/8" Casing

Well Name / No: West Seahorse-3

Area / Permit / Lease : Vic-P57

Weatherford Job No: SP019/08

Job Date: 22 April 2008



Tubular Running Services

Job Report

Personnel

Name	Designation	Shift	Departed		Return	
			Base	Date	Base	Date
Ryan Ingram	CREW CHIEF	DAY	SALE	22/04/08	SALE	
Brendan Northway	CREW CHIEF	NIGHT	SALE	22/04/08	SALE	
Michael Northway	TONG OPERATOR	DAY	SALE	27/04/08	SALE	
Caine Page	TONG OPERATOR	FLEXI	SALE	27/04/08	SALE	
Ally Murray	TONG OPERATOR	DAY	SALE	27/04/08	SALE	

Main Equipment Items

Equipment Description	Serial Number
13 3/8" CMS-XL Hand Slips	702963
Clamp Master	223412
Safety Clamp- Dressed to 13 3/8" & 30":	261092
13 3/8" Single Joint Elevators	229409
13 3/8" Single Joint Elevators Stabberless	261825
4Cly Diesel Power Unit	228571
16K Power Tong	260905
500t ISIS Elevator Dressed 13 3/8"	849365
Varco FMS dressed 13 3/8"	259623
Stabmaster	261803
32" Torque Gauge	CR238
30" Baash Ross Bushings	225343
30" Hand Slips	232705
30" Petel Strap Tongs	229765
30" Side door elevators	702420

Tubular Running Services

Job Report

Tubular Running Services Information

TORQUE PARAMETERS

Pipe No.	Size	Type	Weight ppf	Grade	Shoulder Torque	FT/LBS		Maximum Torque	Turns Program	
						Minimum Torque	Optimum Torque		Min	Max
1	13 3/8	Buttress	68ppf	L 80			10,000			
2	30	D60/MT					30,000			
3										
4										
5										
6										

RUN / PULL COUNT

Pipe No.	Size	Type	Weight	Grade	Examined	Accepted	Re-Ran	Rejected by JAM	Rejected Visually	Rejected on Pipe Rack
1	13 3/8	Buttress	68ppf	L 80	98	98	0	0	0	2
2	30	D60/MT	0.00	0	11	11	0	0	0	0
3	0	0	0.00	0			0	0	0	0
4	0	0	0.00	0						
5	0	0	0.00	0						
6	0	0	0.00	0						

DRIFT PARAMETERS

Pipe No.	Size.	Type	Weight	Grade	Required Drift OD	Actual Drift OD	Special Drift
1	13 3/8	Buttress	68ppf	L 80	ASAS	ASAS	ASAS
2					-	-	
3	0	0	0.00	0			
4	0	0	0.00	0			
5	0	0	0.00	0			
6	0	0	0.00	0			

General Information 13 3/8" Casing

Pipe ran / pulled in: Singles

Thread Compound: Jet Lube

Pipe Stabbed: Stabberless System

Elevators: Free Swinging

Pipe Condition: OK

Weather: Cold

Centralisation: Yes

Thread Locking Compound: Weatherford Tube Lok

Comments:



Weatherford

TUBULAR RUNNING SERVICES JOB REPORT

Job Time Breakdown

Job Started on: Thursday, 24 April 2008

Time: 12:00

Job Finished on: Thursday, 24 April 2008

Time: 22:50

Total Job Time: 10:50

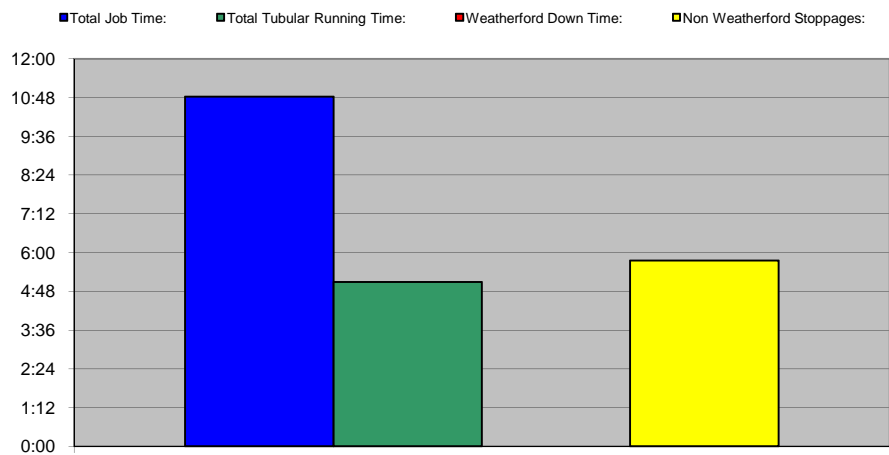
Total Tubular Running Time: 5:05

Weatherford Down Time: 0:00

Non Weatherford Stoppages: 5:45

Average Jnts per Hour:

Non Conformances Reported During Job:



Comments

Job Time Breakdown

[illegible][illegible]

Job Time Breakdown

[illegible][illegible]

Job Time Breakdown

[illegible][illegible]

Job Time Breakdown

[illegible]



Weatherford

TUBULAR RUNNING SERVICES JOB REPORT

Job Time Breakdown

Job Started on: Monday, 28 April 2008

Time: 12:00

Job Finished on: Tuesday, 29 April 2008

Time: 6:00

Total Job Time: 18:05

Total Tubular Running Time: 11:45

Weatherford Down Time: 0:00

Non Weatherford Stoppages: 6:20

Average Jnts per Hour: 9.3

Non Conformances Reported During Job:



Comments

Job Time Breakdown

Date:	Monday, 28 April 2008		W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
			00:00		
12:00	12:15	Rig up JSA			00:15
12:15	13:00	Begin Rigging up			00:45
13:00	13:45	Wait on rig to remove diverter ring			00:45
13:45	14:00	Finish rigging up			00:15
14:00	14:15	JSA to run casing			00:15
14:15	14:30	Wait on rig to pickup shoe and flow check			00:15
14:30	14:45	pick up float collar			00:15
14:45	14:55	Make up Float to shoe (Weatherfor tub loc)	0:20		
14:55	15:20	Make up first connection	00:20		
15:20	18:00	C.R.I.H Finish running centralisers	02:40		
18:00	21:50	C.R.I.H	03:50		
21:50	22:20	Stuck in hole circulating down.			00:30
22:20	1:35	C.R.I.H	03:15		
01:35	2:00	Wait on MLS to get to the floor			00:25
02:00	2:05	Make up MLS	00:05		
02:05	2:30	Waiting on pipe			00:25
02:30	3:30	C.R.I.H	01:00		
03:30	5:30	Waiting on rig to change bails and pick up well head			02:00
05:30	5:45	Make up well head	00:15		
05:45	6:00	Rig down			00:15
			00:00		
00:00					00:00
00:00			00:00		
00:00					00:00
00:00			00:00		
			00:00		
VW VW					

[illegible]

Job Time Breakdown

[illegible][illegible]

Job Time Breakdown

[illegible][illegible]

Job Time Breakdown

[illegible]



West Seahorse-3 13 3/8" CASING TALLY

Australian Drilling Associates Pty Ltd



Casing Data					Well Data		
Size	13.375	in			Base CTU	22.4	m
Grade	N80				Mudline	77.5	m
Weight	101	kg/m	Burst	5020 psi	17.5" TD	1123.0	m
Caliper ID	12.415	in	Nominal ID	12.415 in			m
M/U Loss	0.12	m	Drift ID	12.259 in	Rathole	6.2	m
Thread	BTC						
Internal Capacity	0.4912	bbl/m					
Joint Number	Meas. Length (ft)	Effective Length (ft)	Depth - Top of Joint (ft)	Depth - Bottom of Joint (ft)	Running Depth	Capacity bbls	Comments
Wellhead (above hang off point)	1.50	1.50	17.76	19.26	1099.06		
Wellhead (below hang off point)	1.24	1.24	19.26	20.50	1097.56		Land off point on 30" at 19.20mRT
X/O	4.45	4.45	20.50	24.95	1096.32		
PUP	1.50	1.500	24.95	26.45	1091.87	536.36	
1	11.24	11.240	26.45	37.69	1090.37	535.63	
4	11.34	11.340	37.69	49.03	1079.13	530.11	
5	11.62	11.620	49.03	60.65	1067.79	524.54	
6	11.34	11.340	60.65	71.99	1056.17	518.83	
7	11.24	11.240	71.99	83.23	1044.83	513.26	
Upper MLS	3.72	3.72	83.23	86.95	1033.59	507.74	
Lower MLS	3.17	3.17	86.95	90.12	1029.87	505.91	MLS hang-off at 86.95m
9	10.91	10.91	90.12	101.03	1026.70	504.35	
10	11.30	11.30	101.03	112.33	1015.79	498.99	Centraliser
11	11.56	11.56	112.33	123.89	1004.49	493.44	Centraliser
12	11.24	11.24	123.89	135.13	992.93	487.76	
13	11.59	11.59	135.13	146.72	981.69	482.24	
14	11.43	11.43	146.72	158.15	970.10	476.55	
15	11.76	11.76	158.15	169.91	958.67	470.93	
16	11.31	11.31	169.91	181.22	946.91	465.16	
17	11.55	11.55	181.22	192.77	935.60	459.60	
18	11.62	11.62	192.77	204.39	924.05	453.93	
19	11.45	11.45	204.39	215.84	912.43	448.22	
20	11.70	11.70	215.84	227.54	900.98	442.59	
21	11.57	11.57	227.54	239.11	889.28	436.85	
22	11.66	11.66	239.11	250.77	877.71	431.16	
23	11.32	11.32	250.77	262.09	866.05	425.43	
24	11.10	11.10	262.09	273.19	854.73	419.87	
25	11.07	11.07	273.19	284.26	843.63	414.42	
26	11.80	11.80	284.26	296.06	832.56	408.98	
27	11.57	11.57	296.06	307.63	820.76	403.19	
28	11.27	11.27	307.63	318.90	809.19	397.50	
29	11.50	11.50	318.90	330.40	797.92	391.97	
30	11.57	11.57	330.40	341.97	786.42	386.32	
31	11.45	11.45	341.97	353.42	774.85	380.63	
32	11.68	11.68	353.42	365.10	763.40	375.01	
33	11.65	11.65	365.10	376.75	751.72	369.27	
34	11.08	11.08	376.75	387.83	740.07	363.55	
35	11.58	11.58	387.83	399.41	728.99	358.11	
36	11.27	11.27	399.41	410.68	717.41	352.42	
37	11.20	11.20	410.68	421.88	706.14	346.88	
38	11.50	11.50	421.88	433.38	694.94	341.38	
40	11.34	11.34	433.38	444.72	683.44	335.73	
41	11.57	11.57	444.72	456.29	672.10	330.16	
42	11.70	11.70	456.29	467.99	660.53	324.48	
43	11.42	11.42	467.99	479.41	648.83	318.73	
44	11.55	11.55	479.41	490.96	637.41	313.12	
45	11.69	11.69	490.96	502.65	625.86	307.44	
46	11.12	11.12	502.65	513.77	614.17	301.70	
47	11.36	11.36	513.77	525.13	603.05	296.24	
48	10.81	10.81	525.13	535.94	591.69	290.66	
49	11.73	11.73	535.94	547.67	580.88	285.35	

Joint Number	Meas. Length (ft)	Effective Length (ft)	Depth - Top of Joint (ft)	Depth - Bottom of Joint (ft)	Running Depth	Capacity bbls	Comments
50	11.77	11.77	547.67	559.44	569.15	279.59	
51	11.49	11.49	559.44	570.93	557.38	273.80	
52	11.49	11.49	570.93	582.42	545.89	268.16	
53	11.80	11.80	582.42	594.22	534.40	262.52	
54	11.68	11.68	594.22	605.90	522.60	256.72	
55	11.34	11.34	605.90	617.24	510.92	250.98	
56	10.29	10.29	617.24	627.53	499.58	245.41	
57	11.39	11.39	627.53	638.92	489.29	240.36	
58	10.84	10.84	638.92	649.76	477.90	234.76	
59	11.22	11.22	649.76	660.98	467.06	229.44	
60	11.67	11.67	660.98	672.65	455.84	223.92	
61	11.07	11.07	672.65	683.72	444.17	218.19	
62	11.02	11.02	683.72	694.74	433.10	212.75	
63	11.52	11.52	694.74	706.26	422.08	207.34	
64	11.27	11.27	706.26	717.53	410.56	201.68	
65	11.57	11.57	717.53	729.10	399.29	196.15	
66	11.30	11.30	729.10	740.40	387.72	190.46	
67	11.69	11.69	740.40	752.09	376.42	184.91	
68	11.32	11.32	752.09	763.41	364.73	179.17	
69	11.51	11.51	763.41	774.92	353.41	173.61	
70	11.21	11.21	774.92	786.13	341.90	167.95	
71	11.61	11.61	786.13	797.74	330.69	162.45	
72	11.51	11.51	797.74	809.25	319.08	156.74	
73	11.09	11.09	809.25	820.34	307.57	151.09	
74	11.53	11.53	820.34	831.87	296.48	145.64	
75	10.96	10.96	831.87	842.83	284.95	139.98	
76	11.30	11.30	842.83	854.13	273.99	134.59	
77	10.95	10.95	854.13	865.08	262.69	129.04	
78	11.70	11.70	865.08	876.78	251.74	123.66	
79	11.39	11.39	876.78	888.17	240.04	117.92	
80	11.47	11.47	888.17	899.64	228.65	112.32	
81	11.17	11.17	899.64	910.81	217.18	106.69	Centraliser
82	11.62	11.62	910.81	922.43	206.01	101.20	Centraliser
83	11.51	11.51	922.43	933.94	194.39	95.49	Centraliser
84	11.63	11.63	933.94	945.57	182.88	89.84	Centraliser
85	11.32	11.32	945.57	956.89	171.25	84.12	Centraliser
86	11.21	11.21	956.89	968.10	159.93	78.56	Centraliser
87	11.58	11.58	968.10	979.68	148.72	73.06	Centraliser
88	11.63	11.63	979.68	991.31	137.14	67.37	Centraliser
89	11.44	11.44	991.31	1002.75	125.51	61.65	Centraliser
90	10.88	10.88	1002.75	1013.63	114.07	56.04	Centraliser
91	11.57	11.57	1013.63	1025.20	103.19	50.69	Centraliser
92	11.08	11.08	1025.20	1036.28	91.62	45.01	Centraliser
93	11.75	11.75	1036.28	1048.03	80.54	39.56	Centraliser
94	11.36	11.36	1048.03	1059.39	68.79	33.79	Centraliser
95	10.88	10.88	1059.39	1070.27	57.43	28.21	Centraliser
96	11.48	11.48	1070.27	1081.75	46.55	22.87	Centraliser
97	11.37	11.37	1081.75	1093.12	35.07	17.23	Centraliser
Float Jt 'A'	11.50	11.50	1093.12	1104.62	23.70	11.64	Two centralisers
Shoe Jt 'A'	12.20	12.20	1104.62	1116.82	12.20	5.99	Two centralisers