

Sweetpea Petroleum

Rig: Ensign 970

HALLIBURTON

We get results together.

CEMENTING/ PUMPING POST JOB REPORT

CMT Conductor Casing BOM - 14161

Well: Maverick T463-A1-1H

Job Date: 20-September-2022

Prepared by Mark Dale

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Job Summary

Customer: Sweetpea Petroleum

Job Code: CMT Conductor Casing BOM - 14161

VIDA: H077241

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Well Profile

Applicable: Yes

Was the Casing Tally provided?

Yes

Section	Size	ID	Weight	Grade	Thread	Excess	Top (MD)	End (MD)	End (TVD)	Length
	in	in	lb/ft			%		0	0	0
Previous Casing	20			K-55	Buttress		24.0	24.0	24.0	0.0
Open Hole	17.5						24.0	170.0	170.0	146.0
Open Hole										
New Casing	13.38							169.0	169.0	
Float Collar							158.7	158.7	158.7	0.0
Float Shoe								169.0	169.0	

Float & Casing Equipment

Applicable: No

Personnel

SAP	Personnel	Hours	Date From	Date To	Comments
H257910	Mark Dale	384.0	05-Sep-22	20-Sep-22	crew change out
689221	Schoof, Joshua	408.0	04-Sep-22	20-Sep-22	crew change out
539824	Munn, Leigh	48.0	19-Sep-22	20-Sep-22	crew change in
689601	Martin, Scott	48.0	19-Sep-22	20-Sep-22	crew change in

Equipment

SAP	Vehicles & Trailers	Hours	Date From	Date To	Comments
12523929	12523929 - T659	408.0	04-Sep-22	20-Sep-22	
12054757	12054757 - Dolly	408.0	04-Sep-22	20-Sep-22	
11837175	11837175 - Dolly	408.0	04-Sep-22	20-Sep-22	
SAP	Bulk Supply	Hours	Date From	Date To	Comments
11520333	11520333 - Bulker	408.0	04-Sep-22	20-Sep-22	
11850541	11850541 - Bulker	408.0	04-Sep-22	20-Sep-22	
10047248	10047248 - 1410	408.0	04-Sep-22	20-Sep-22	
SAP	Mixing & Pumping	Hours	Date From	Date To	Comments
10967410	10967410 - Elite	48.0	04-Sep-22	20-Sep-22	
SAP	Other	Hours	Date From	Date To	Comments

Fluids Summary

Fluid Type: Spacer		Fluid Name: Fresh water		Order: 1
Chemicals	Conc.	Total		Notes/ Batch
Freshwater				
</				

Sales Order: 907973556

Order: **2**

Cement - Other		
Sack Weight	94	lb/sk

Properties		
Lab Report	2746985/4	
Trademark	HalCem™	
Density	13.5	<i>lb/gal</i>
Yield	1.72	<i>cuft/sk</i>
Water Req.	8.77	<i>gal/sk</i>
Mix Fluid Req.	9.35	<i>gal/sk</i>
Vol. Mixed	67.6	<i>bbl</i>

Water Information		
Mix Water Vol.	43.0	<i>bbl</i>
Mix Fluid Vol.	45.8	<i>bbl</i>
Source	Bore	

Order: **3**

Cement - Other	
Sack Weight	lb/sk

Properties	
Lab Report	2746986/2
Trademark	HalCem™
Density	15.8 <i>lb/gal</i>
Yield	1.16 <i>cuft/sk</i>
Water Req.	5.14 <i>gal/sk</i>
Mix Fluid Req.	5.16 <i>gal/sk</i>
Vol. Mixed	26.0 <i>bbl</i>

Water Information		
Mix Water Vol.	15.0	<i>bbl</i>
Mix Fluid Vol.	15.1	<i>bbl</i>
Source		

Order: 4

Properties		
Lab Report		
Trademark	HalCem™	
Density	8.3	lb/gal
Yield		cuft/sk
Water Req.		gal/sk
Mix Fluid Req.		gal/sk
Vol. Mixed	79.2	bbl
Vol. Pumped	79.2	bbl
Water Information		
Mix Water Vol.	79.2	bbl
Mix Fluid Vol.	79.2	bbl

Job Summary

Sales Order: 907973556

Order: **5**

Cement - Other	
Sack Weight	lb/sk

Properties		
Lab Report	25759670/1	
Trademark	HalCem™	
Density	15.8	<i>lb/gal</i>
Yield	1.18	<i>cuft/sk</i>
Water Req.	5.22	<i>gal/sk</i>
Mix Fluid Req.	5.29	<i>gal/sk</i>
Vol. Mixed	14.0	<i>bbl</i>

Mix Water Vol.	4.2	<i>bbl</i>
Mix Fluid Vol.	4.4	<i>bbl</i>
Source	Bore	

Order: 6

Customer: Sweetpea Petroleum

Job Code: CMT Conductor Casing BOM - 14161

VIDA: H077241

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Returned Fluids

Spacer(s) Pumped: 5.0 bbl Lead Cement Pumped: 65.6 bbl Cement to Surface: 0.0 bbl
 Spacer to Surface: 0.0 bbl Tail Cement Pumped: 26.0 bbl Lost Returns: 0.0 bbl

Job Event Records

Date	Time	Volume bbl	Rate bbl/min	Pressure High Low		Job Description
04-Sep-22	06:00 AM	-	-	-	-	END OF PREVIOUS JOB
04-Sep-22	06:00 AM	-	-	-	-	Depart from Camp
09-Sep-22	08:00 AM	-	-	-	-	Arrive at Ensign 970
10-Sep-22						85 mt g class cement arrives location
11-Sep-22						general freight arrives from moomba/ blow 85mt g cement
12-Sep-22						in to 2x cocums bulkers on location aprox 1000sacks in each
						chem trailer arrives on location from Roma and rig up
17-Sep-22	10:00 AM					load top plug into cmt head
18-Sep-22	09:00 PM					notified of job T.D called short
19-Sep-22	02:00 AM					Called to rig
19-Sep-22	02:35 AM					Arrive back at rig
19-Sep-22	02:45 AM					review programme
19-Sep-22	04:00 AM					prehydrate mix water
19-Sep-22	09:30 AM					notified by engineer of no pottom plug to be run
19-Sep-22	09:50 AM					PJSM
19-Sep-22	11:30 AM					Rig up lines
19-Sep-22	11:40 AM					install cmt head
19-Sep-22	11:58 AM	5.0	4.0			Prime surface lines
	12:03 PM				500	Low P.T
	12:09 PM			2,000		High P.T
	12:24 PM					mix slurry and check weights
	12:30 PM	67.6	4.5	0	0	pump 13.5ppg slurry
	12:45 PM					flush recirc system on unit due to econilite
	12:50 PM					mix slurry and check weights
	12:55 PM	26.0	3.0	0	0	pump 15.8ppg slurry
	01:10 PM	60.0	6.0			drop top plug and displace at 6bbl min
	01:20 PM	19.2	2.0			drop displacement to 2bbl min
	01:30 PM		2.0			plug did not bump
	01:32 PM	2.6	2.0			pump extra half shoe track
	01:34 PM					plug still not bumped, floats still not holding
	01:35 PM					washup unit
	02:05 PM					standby for top up
	02:10 PM					rig up lines to sellar for top up job
	03:20 PM					prehydrate mix water top up (1)
	04:25 PM	1.0	2.0			pump space to confirm clear lines
	04:40 PM	32.7	1.0			Mix and pump top up (1)
	05:20 PM					flush lines
	05:30 PM					washup elite
	06:55 PM					standby
	07:00 PM					return to camp
20-Sep-22	02:30 AM					called to rig
	02:45 AM					bring on more mix water for next top up
	03:30 AM					measure out mix water for top up 2
	03:32 AM					prerhydrate chems for top up (2)
	04:00 AM	30.2	1.0			mix and pump top up (2)
	04:32 AM					flush lines
	04:40 AM					wash up unit
	05:45 AM					depart lease for crew change
	11:00 AM					crew change and stand by for procedure

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Cementing

Job Logs/ Records

Customer: Sweetpea Petroleum

Job Code: CMT Conductor Casing BOM - 14161

VIDA: H077241

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Returned Fluids

Spacer(s) Pumped: 5.0 bbl

Lead Cement Pumped: 65.6 bbl

Cement to Surface: 0.0 bbl

Spacer to Surface: 0.0 bbl

Tail Cement Pumped: 26.0 bbl

Lost Returns: 0.0 bbl

Job Event Records

Date	Time	Volume bbl	Rate bbl/min	Pressure		Job Description
				High	Low	
	03:20 PM					prehydrate chems for top up (3)
	03:25 PM	1.0	2.0			prime pumps
	03:34 PM	7.0	3.0			pump top up cmt (3)
	03:39 PM					finish pumping top up (3) (both pumps jacking. Incorrect bbl on graph)
	03:40 PM					prehydrate chems for top up (4)
	03:47 PM	7.0	1.5			pump top up cmt (4)
	04:00 PM	3.0	1.5			flush lines
20-Sep-22	04:20 PM					Begin wash-up
20-Sep-22	09:15 PM				-	Depart from Ensign 970
20-Sep-22	09:30 PM				-	Arrive at Camp
END of Job Logs						

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Key Performance Indicators

Customer: Sweetpea Petroleum

Job Code: CMT Conductor Casing BOM - 14161

VIDA: H077241

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Type of Job <i>Select the type of job. (Cementing or Non-Cementing)</i>	Cementing		
Select the Maximum Deviation range for this Job <i>What is the highest deviation for the job just completed? This may not be the maximum well deviation.</i>	Vertical		
Total Operating Time (hours) (WM-GL-HAL-SQ-801) <i>Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format. (Auto-calculated from Job Logs)</i>	399.5		
HSE Incident, Accident, Injury <i>HSE Incident, Accident, Injury. This should be recordable incidents only.</i>	No		
Was the job purpose achieved? <i>Was the job delivered correctly as per customer agreed design?</i>	Yes		
Pumping Hours (Prime lines to washup) <i>Total number of hours pumping fluid on this job. Enter in decimal format. (Auto-calculated from Job Logs)</i>	28.37		
Type of Rig Classification Job Was Performed <i>Type Of Rig (classification) Job Was Performed On</i>	Drilling Rig (Portable)		
Number Of JSAs Performed <i>Number Of JSAs Performed</i>	4		
Was this a Primary Cement Job (Yes / No) <i>Primary Cement Job is a Casing job, Liner job, or Tie-back job.</i>	Yes		
Was this a Plug or Squeeze Job? <i>Please select appropriate choice</i>	Not Applicable		
Was this a Primary or a Remedial Job? <i>Primary: Kick off plug, Plug to Abandon, LCM plug or planned Liner Top Squeeze. Remedial: Squeeze of existing perforation. Squeeze of casing leak</i>	Primary		
Number of Unplanned Shutdowns <i>Unplanned shutdown is when injection stops for any period of time.</i>	0		
Reason for Unplanned Shutdown <i>Reason for Unplanned Shutdown (after starting to pump)</i>			
Customer Non-Productive Rig Time (hrs) <i>Last time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.</i>	0		
Reason for Non-Productive Rig Time <i>Reason for Non-Productive Rig Time (Cementing PSL Responsibility)</i>			
Was the Non-Productive Time or unplanned shutdown caused by a problem with a piece of Equipment? <i>Please select appropriate choice</i>	Not Applicable		
If yes, which piece of equipment had a problem? <i>Please select appropriate choice</i>			
Did We Run Wiper Plugs? <i>Did We Run Top And Bottom Casing Wiper Plugs?</i>	Top		
If a top plug was run, was the plug bumped? <i>Please select appropriate choice</i>	No		
If applicable, was Halliburton float equipment used? <i>Please select appropriate choice</i>	No		
If applicable, did the floats hold? <i>Please select appropriate choice</i>	No		
Mixing Density of Job Stayed in Designed Density Range (0-100%) <i>Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100</i>	98		
Was Automated Density Control Used? <i>Was Automated Density Control (ADC) Used ?</i>	Yes		
Pump Rate (percent) of Job Stayed At Designed Pump Rate <i>Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100</i>	98		
If applicable, were there returns throughout the job? <i>If applicable, were there returns throughout the job?</i>	No		
Number of Remedial Plug Jobs Required - HES <i>Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES</i>	0		
Number of Remedial Squeeze Jobs Required - HES <i>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES</i>	0		
Density Recorded with Pressurised Mud Balance?	Yes	13.5/15.8	lb/gal
When did cement return to surface?	0.0	bbl into	disp.

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Cementing

Water Analysis

Test Information			
Company Name:	Sweetpea Petroleum	SO:	907973556
Well Name:	Maverick T463-A1-1H	Source:	Day tank
Rig Name:	Ensign 970	Test Date:	15-Sep-22
VIDA Number:	H077241	Tested By:	Josh
Job Type:	Conductor Casing		

Test Values					
Test		Lower	Test Value	Upper	Slurry Response
Water Temperature	(°C)	10	31	38	High temperatures will accelerate cement. Low temperatures will retard cement.
pH		6	7.5	9	Can cause retardation. If > 8.0, avoid using it as Magnesium may be present which can cause flash-setting.
		Based on field experience combined with typically shallow casing strings, a limit of 9 is acceptable providing the 'Total Hardness' is within limit. If above 9, Engineering approval must be sought before continuing.			
Total Alkalinity (ppm)		0	300	1,000	Can retard the cement. Decreases strength of cement. Can thicken the cement slurry.
		If the value reads '240' please use the following mix and retest. 1 part sample to 3 parts bottled water. The new reading then needs to be multiplied by 4 (to account for dilution).			
Total Hardness (ppm)		0	200	1,000	Can slightly shorten thickening time on cement.
		If the value reads '425' please use the following mix and retest. 1 part sample to 1 parts bottled water. The new reading then needs to be multiplied by 2 (to account for dilution).			
Chlorides (ppm)		0	500	3,000	Can accelerate the set time on cement.
Sulfates (ppm)		0	200	2,000	Will decrease the strength of cement.
Iron (ppm)		0	0	300	Can cause gelation issues with cement.

Approval	
WATER WITHIN SPECIFICATION	
Customer Representative Name:	
Customer Signature:	Date: 19-Sep-22

Sales Order Date: September 04, 2022

22-Sep-22

Currency:	AUD
Rig Name:	Ensign 970
Well Name:	Maverick T463-A1-1H
Job Purpose:	CMT Conductor Casing BOM - 14161

Comments		SUB-TOTAL from this page	8,584.11
			Austr. Dollars
HALLIBURTON	HALLIBURTON	TOTAL	8,584.11
Mark Dale (SAP: H257910)	Signature	Taxes 10%	858.41
Customer Name	Customer Signature	GRAND TOTAL	9,442.52
			Austr. Dollars