

Sweetpea Petroleum

Rig: Ensign 970

HALLIBURTON

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CEMENTING/ PUMPING POST JOB REPORT

CMT Surface Casing BOM - 7521

Well: Maverick T463-A1-1H

Job Date: 25-September-2022

Prepared by Munn, Leigh

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HALLIBURTON | Cementing**Job Summary**

Customer: Sweetpea Petroleum

Job Code: CMT Surface Casing BOM - 7521

VIDA: H077650

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Well ProfileApplicable: **Yes**Was the Casing Tally provided? **Yes**

Section	Size <i>in</i>	ID <i>in</i>	Weight <i>lb/ft</i>	Grade	Thread	Excess %	Top (MD)	End (MD)	End (TVD)	Length
Previous Casing	13 3/8		68	K-55	Buttress		0.0	168.0	168.0	168.0
Open Hole	12.25					100.0	160.0	504.0	504.0	344.0
Open Hole	12.25					25.0	504.0	604.0	604.0	100.0
New Casing	9 5/8	8.835	40	N-80	Buttress		0.0	604.0	604.0	604.0
Float Collar	9 5/8						579.9	580.4	580.4	0.5
Float Shoe	9 5/8						603.4	604.0	604.0	0.6

Float & Casing EquipmentApplicable: **Yes**

Category	Description	SAP	Supplier	Quantity
Float Equipment	Float shoe 9.625 Buttress , 4.250 IIIC valve	na	Other	1
Float Equipment	Float collar 9.625 Buttress, 24-40ppf 4.250 IIIC valve	na	Other	1
Casing Attachments	9.625 stopp collar	na	Other	19
Casing Attachments	9.625 Centraliser	na	Other	19
Plugs	9.625 Top Plug	na	Other	1
Plugs	9.625 Bottom Plug	na	Halliburton	1

Personnel

SAP	Personnel	Hours	Date From	Date To	Comments
539824	Munn, Leigh	120.0	21-Sep-22	25-Sep-22	
689601	Martin, Scott	120.0	21-Sep-22	25-Sep-22	

Equipment

SAP	Vehicles & Trailers	Hours	Date From	Date To	Comments
12523929	12523929 - T659	120.0	21-Sep-22	25-Sep-22	
12054757	12054757 - Dolly	120.0	21-Sep-22	25-Sep-22	
11837175	11837175 - Dolly	120.0	21-Sep-22	25-Sep-22	
SAP	Bulk Supply	Hours	Date From	Date To	Comments
11520333	11520333 - Bulker	120.0	21-Sep-22	25-Sep-22	
11850541	11850541 - Bulker	120.0	21-Sep-22	25-Sep-22	
10047248	10047248 - 1410	120.0	21-Sep-22	25-Sep-22	
SAP	Mixing & Pumping	Hours	Date From	Date To	Comments
10967410	10967410 - Elite	120.0	21-Sep-22	25-Sep-22	
SAP	Other	Hours	Date From	Date To	Comments

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Cementing

Job Summary

Customer: Sweetpea Petroleum

Job Code: CMT Surface Casing BOM - 7521

VIDA: H077650

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Fluids Summary

Fluid Type: Spacer

Fluid Name: Flocheck spacer

Order: 1

Chemicals	Conc.	Total	Notes/ Batch
Freshwater	15.50 gal/bbl	7.4 bbl	
Econolite Liquid	26.70 gal/bbl	530.0 gal	

Properties	
Lab Report	na
Trademark	
Density	10.4 lb/gal
Yield	cuft/sk
Water Req.	gal/bbl
Mix Fluid Req.	gal/bbl
Vol. Mixed	20.0 bbl
Vol. Pumped	20.0 bbl
Water Information	
Mix Water Vol.	7.4 bbl
Mix Fluid Vol.	7.4 bbl
Source	Bore

Fluid Type: Spacer

Fluid Name: Freshwater

Order: 2

Chemicals	Conc.	Total	Notes/ Batch

Properties	
Lab Report	
Trademark	
Density	8.4 lb/gal
Yield	cuft/sk
Water Req.	gal/bbl
Mix Fluid Req.	gal/bbl
Vol. Mixed	bbl
Vol. Pumped	30.0 bbl
Water Information	
Mix Water Vol.	30.0 bbl
Mix Fluid Vol.	30.0 bbl
Source	Bore

Fluid Type: Cement

Fluid Name: 13.5ppg Lead

Order: 3

Cement	Total	Notes
Class G Cement	518 sks	

Chemicals	Conc.	Total	Notes/ Batch
D-Air 3000L	0.01 gal/sk	7.0 gal	
CFR-3	0.20 %BWOC	115.0 lb	
GasCon 469	0.75 gal/sk	457.0 gal	
Halad-344	0.50 %BWOC	287.0 lb	

Properties	
Lab Report	2746987/5
Trademark	HalCem™
Density	13.5 lb/gal
Yield	1.69 cuft/sk
Water Req.	8.32 gal/sk
Mix Fluid Req.	9.14 gal/sk
Vol. Mixed	159.1 bbl
Water Information	
Mix Water Vol.	120.8 bbl
Mix Fluid Vol.	132.0 bbl
Source	Bore

Approver Name: David Bedford

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Job Summary

Customer: Sweetpea Petroleum

Job Code: CMT Surface Casing BOM - 7521

VIDA: H077650

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Fluid Type: Cement

Fluid Name: 15.8ppg Tail

Order: 4

Cement	Total	Notes
Class G Cement	140 sks	

Chemicals	Conc.	Total	Notes/ Batch
D-Air 3000L	0.01 gal/sk	4.0 gal	
CFR-3	0.20 %BWOC	57.0 lb	
GasCon 469	0.10 gal/sk	30.0 gal	
Halad-344	0.25 %BWOC	71.0 lb	
HR-5	0.10 %BWOC	28.0 lb	

Cement - Other
Sack Weight 94 lb/sk

Properties
Lab Report 2756118/2
Trademark HalCem™
Density 15.8 lb/gal
Yield 1.16 cuft/sk
Water Req. 5.01 gal/sk
Mix Fluid Req. 5.16 gal/sk
Vol. Mixed bbl

Water Information
Mix Water Vol. 36.4 bbl
Mix Fluid Vol. 38.1 bbl
Source Bore

Fluid Type: Other

Fluid Name: Water Displacement

Order: 5

Chemicals	Conc.	Total	Notes/ Batch

Properties	
Lab Report	
Trademark	
Density 8.4 lb/gal	
Yield cuft/sk	
Water Req. gal/sk	
Mix Fluid Req. gal/sk	
Vol. Mixed 147.6 bbl	
Vol. Pumped 147.6 bbl	

Water Information
Mix Water Vol. 147.6 bbl
Mix Fluid Vol. 147.6 bbl
Source Bore

Fluid Type: Cement

Fluid Name: Top Up 15.8ppg slurry

Order: 6

Cement	Total	Notes
Class G Cement	441 sks	

Chemicals	Conc.	Total	Notes/ Batch
Calcium Chloride	1.50 %BWOC	606.0 lb	
CFR-3	0.20 %BWOC	78.0 lb	
D-Air 3000L	0.01 gal/sk	6.0 gal	

Cement - Other
Sack Weight 94 lb/sk

Properties
Lab Report 2759670/1
Trademark HalCem™
Density 15.8 lb/gal
Yield 1.18 cuft/sk
Water Req. 5.22 gal/sk
Mix Fluid Req. 5.29 gal/sk
Vol. Mixed 90.0 bbl
Vol. Pumped 53.5 bbl

Water Information
Mix Water Vol. 52.5 bbl
Mix Fluid Vol. 55.5 bbl
Source Bore

Fluid Type:

Fluid Name:

Order: 7

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Customer: Sweetpea Petroleum

Job Code: CMT Surface Casing BOM - 7521

VIDA: H077650

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Returned Fluids

Spacer(s) Pumped: 50.0 *bbl* **Lead Cement Pumped:** 159.1 *bbl* **Cement to Surface:** 0.0 *bbl*
Spacer to Surface: 0.0 *bbl* **Tail Cement Pumped:** 31.0 *bbl* **Lost Returns:** 0.0 *bbl*

Job Event Records

Date	Time	Volume <i>bbl</i>	Rate <i>bbl/min</i>	Pressure		Job Description
				High	Low	
21-Sep-22	05:55 AM	-	-	-	-	Depart from Camp
21-Sep-22	06:00 AM	-	-	-	-	Arrive at Ensign 970
	07:00 AM					drain and clean out conductor mix water from tango tank
	09:30 AM					Tidy up area after conductor job
	10:30 AM					maintaince on equipment
	03:30 PM					swap out bulkers for up coming cmt job
22-Sep-22	06:30 AM					inspect 9 5/8 cmt head
	10:00 AM					calcs for chem usage for upcoming cmt job
	01:00 PM					fill tango tank with water volume for surface job
	04:00 PM					set up chemicals for mix water
23-Sep-22	07:00 AM					run up and check over all equipment
	08:00 AM					test mix water for surface job
24-Sep-22	07:26 AM					called to rig
	07:45 AM					arrive at site
	08:00 AM					Prehydrate chems for lead and tail mix water
	12:50 PM					depart lease and head to camp to reset hrs
	09:20 PM					depart camp and head back to lease
	09:25 PM					prehydrate hr5 into tail mix water
	09:35 PM					load plugs
	09:40 PM					rig up floor iron
24-Sep-22	10:20 PM	5.0	2.0			Prime surface lines
	11:00 PM				500	low p.t
	11:05 PM			6,000		High P.T
	11:10 PM					mix flocheck
	11:30 PM					hold safety meeting while rig pumps pill spacer
	11:44 PM	20.0	3.5			pump flo check
	11:55 PM	30.0	4.0			pump spacer
25-Sep-22	12:05 AM	0.5	2.0			realease bottom plug
	12:20 AM	159.1	4.4		360	pump 13.5ppg lead slurry
	01:07 AM	31.0	3.0		410	pump 15.8ppg slurry
	01:20 AM		2.0			release top plug
	01:21 AM	10.0	5.5			displace first 10 bbl
	01:23 AM	117.6	6.0		270	hand over to rig to displace
	01:41 AM	20.0	2.0		330	halliburton pump last 20 bbl of displacement
	01:51 AM		2.0		350	bump plug
	01:58 AM	2.5	1.0	5,000		pressure test casing
	02:08 AM	3.5				bleed back
	02:11 AM					floats not holding
	02:15 AM	1.0	1.0	350		pump back up tp bump psi
	02:20 AM					shut in well and hold pressure until 500psi compression strength
	02:25 AM	20.0				wash up unit
	03:10 AM					stand by
	04:20 AM					prehydrate chems for 30bbl top up slurrty
	04:26 AM	10.0	1.5			mix and pump top up slurry
	04:39 AM	10.2	1.5			mix and pump top up slurry
	04:54 AM	13.0	1.5			mix and pump top up slurry
	05:09 AM					flush lines

HALLIBURTON

Cementing

Job Logs/ Records

Customer: Sweetpea Petroleum

Job Code: CMT Surface Casing BOM - 7521

VIDA: H077650

Well Name: Maverick T463-A1-1H

Sales Order: 907973556

Returned Fluids

Spacer(s) Pumped: 50.0 bbl

Lead Cement Pumped: 159.1 bbl

Cement to Surface: 0.0 bbl

Spacer to Surface: 0.0 bbl

Tail Cement Pumped: 31.0 bbl

Lost Returns: 0.0 bbl

Job Event Records

Date	Time	Volume bbl	Rate bbl/min	Pressure		Job Description
				High	Low	
	05:15 AM					wash up unit
	05:40 AM					transfer all remaing cmt into one bulker
	06:15 AM					prehydrate chems for 30bbl top up slurrty
	06:28 AM	10.0	1.5			mix and pump top up slurry
	06:44 AM	11.0	1.5			mix and pump top up slurry
	07:03 AM	3.5	1.5			mix and pump top up slurry
	07:08 AM					full cmt to surface
	07:11 AM	6.5				pump remaining cmt into pit
	07:15 AM					flush lines
25-Sep-22	07:25 AM					Begin wash-up
	08:04 AM			630		pressure back from well head to elite
	08:08 AM	0.5				monitor returns
	08:20 AM					rig down
25-Sep-22	09:00 AM				-	Depart from Ensign 970
25-Sep-22	09:05 AM				-	Arrive at Camp
25-Sep-22	09:20 AM					send download data to ocr
END of Job Logs						

HALLIBURTON | Cementing**Key Performance Indicators**

Customer: Sweetpea Petroleum		Job Code: CMT Surface Casing BOM - 7521	
VIDA: H077650		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>		90.2	
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>		9.08	
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>Lost 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>		Both	
If a top plug was run, was the plug bumped? <i>Please select appropriate choice</i>		Yes	
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	N/A

Well Information

Sales Order #:	907973556	Line Item:	01
Customer:	Sweetpea Petroleum	Job Type (BOM):	CMT Surface Casing BOM - 7521
Customer Rep./Phone:		API / UWI:	(Leave Blank if unknown)
Well Name:	Maverick T463-A1-1H	Job Date:	24-September-2022
Well Type:	02 GAS	Well Country:	Australia
H2S Present:	No / Yes	Well State:	Northern Territory

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

Category	Description	Response
Survey Conducted Date	<i>The date the survey was conducted</i>	18-Feb-22
Survey Interviewer	<i>The survey interviewer is the person who initiated the survey</i>	Munn, Leigh
Customer Participation	<i>Did the customer participate in this survey? (Circle)</i>	Yes / No
Customer Rep.	<i>Enter the Customer representative name</i>	Iucus Hay
HSE	<i>Was our HSE performance satisfactory? (Circle)</i>	Yes / No
Equipment	<i>Were you satisfied with our Equipment? (Circle)</i>	Yes / No
Personnel	<i>Were you satisfied with our people? (Circle)</i>	Yes / No
Customer Comment		
Customer Signature		

HALLIBURTON**| 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:** 23-Sep-22**VIDA Number:** H077650**Tested By:** scott martin**Job Type:** Surface Casing**Test Values**

Test		Lower	Test Value	Upper	Slurry Response
Water Temperature	(°C)	10	26	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	240	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	250	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	0	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:**

23-Sep-22