

Sweetpea Petroleum

Rig: Ensign 970



CEMENTING/ PUMPING POST JOB REPORT

CMT Production Casing BOM - 7523

Well: Maverick T463-A1-V

Job Date: 18-October-2022

Prepared by Adnan Saiyed

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HALLIBURTON

Cementing

Job Summary

Customer: Sweetpea Petroleum

Job Code: CMT Production Casing BOM - 7523

VIDA: H081363

Well Name: Maverick T463-A1-V

Sales Order: 907973558

Well Profile										Applicable:	Yes
Was the Casing Tally provided? <div>Yes</div>											
Section	Size	ID	Weight	Grade	Thread	Excess	Top (MD)	End (MD)	End (TVD)	Length	
	in	in	lb/ft			%					
Previous Casing	9.625		40	K-55	Buttress		0.0			604.0	
Float Collar	7	6.875	29.7	P-110	Blank					2,982.7	
Float Shoe	7	6.875								3,041.5	
Open Hole	8.5					30.0				3,042.0	

Float & Casing Equipment										Applicable:	No
Personnel											
SAP	Personnel			Hours	Date From	Date To	Comments				
539824	Munn, Leigh										
676908	Dale, Mark			72.0							
689601	Martin, Scott										
689221	Schoof, Joshua			72.0							

Equipment											
SAP	Vehicles & Trailers			Hours	Date From	Date To	Comments				
12523929	12523929 - T659			72.0	15-Oct-22	18-Oct-22					
12054757	12054757 - Dolly			72.0	15-Oct-22	18-Oct-22					
11837175	11837175 - Dolly			72.0	15-Oct-22	18-Oct-22					
SAP	Bulk Supply			Hours	Date From	Date To	Comments				
11520333	11520333 - Bulker				15-Oct-22	18-Oct-22					
11850541	11850541 - Bulker				15-Oct-22	18-Oct-22					
10047248	10047248 - 1410										
SAP	Mixing & Pumping			Hours	Date From	Date To	Comments				
10967410	10967410 - Elite				15-Oct-22	18-Oct-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		Properties				
Freshwater					prime surface lines		Lab Report				
							Trademark				
							Density		8.3	lb/gal	
							Yield		cuft/sk		
							Water Req.		gal/bbl		
							Mix Fluid Req.		gal/bbl		
							Vol. Mixed		bbl		
							Vol. Pumped		3.0	bbl	
							Water Information				
							Mix Water Vol.		bbl		
							Mix Fluid Vol.		bbl		
							Source				

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Job Summary

Customer: Sweetpea Petroleum

Job Code: CMT Production Casing BOM - 7523

VIDA: H081363

Well Name: Maverick T463-A1-V

Sales Order: 907973558

Fluid Type: Cement

Fluid Name: 13.5 ppg lead

Order: 2

Cement	Total	Notes
HTB Cement	319 <i>sx</i>	

Chemicals	Conc.	Total	Notes/ Batch
CFR-3	0.20 %BWOC	73.0 <i>lb</i>	
GasCon 469	0.35 gal/sk	136.0 <i>gal</i>	
Halad-413	0.20 %BWOC	73.0 <i>lb</i>	
Halad-344	1.80 %BWOC	657.0 <i>lb</i>	
SCR-100	0.12 %BWOC	44.0 <i>lb</i>	
D-Air 3000L	0.01 gal/sk	5.0 <i>gal</i>	extra aded on the fly
Microbond HT	5.00 %BWOC	1,499.0 <i>lb</i>	pre blended

Cement - Other
Sack Weight 126.9 <i>lb/sk</i>

Properties
Lab Report 2767592/2
Trademark HalCem™
Density 13.5 <i>lb/gal</i>
Yield 2.31 <i>cuft/sk</i>
Water Req. 11.55 <i>gal/sk</i>
Mix Fluid Req. 12.11 <i>gal/sk</i>
Vol. Mixed 131.4 <i>bbl</i>

Water Information
Mix Water Vol. 106.8 <i>bbl</i>
Mix Fluid Vol. <i>bbl</i>
Source Bore

Fluid Type: Cement

Fluid Name: 15.8 ppg tail cement

Order: 3

Cement	Total	Notes
HTB Cement	198 <i>sx</i>	

Chemicals	Conc.	Total	Notes/ Batch
CFR-3	0.40 %BWOC	121.0 <i>lb</i>	
Halad-344	0.60 %BWOC	182.0 <i>lb</i>	
Halad-413	0.50 %BWOC	152.0 <i>lb</i>	
SCR-100	0.08 %BWOC	24.0 <i>lb</i>	
GasCon 469	0.15 gal/sk	48.0 <i>gal</i>	
D-Air 3000L	0.01 gal/sk	5.0 <i>gal</i>	extra aded on the fly
Microbond HT	5.00 %BWOC	931.0 <i>lb</i>	pre blended

Cement - Other
Sack Weight 126.9 <i>lb/sk</i>

Properties
Lab Report 2767593/2
Trademark HalCem™
Density 15.8 <i>lb/gal</i>
Yield 1.59 <i>cuft/sk</i>
Water Req. 6.44 <i>gal/sk</i>
Mix Fluid Req. 6.74 <i>gal/sk</i>
Vol. Mixed 56.5 <i>bbl</i>

Water Information
Mix Water Vol. 49.7 <i>bbl</i>
Mix Fluid Vol. <i>bbl</i>
Source Bore

Fluid Type: Spacer

Fluid Name: tuned spacer

Order: 4

Chemicals	Conc.	Total	Notes/ Batch
Barazan D (Baroid)	1.20 lb/bbl	66.0 <i>lb</i>	
Tuned Spacer V (Dry)	1.80 lb/bbl	99.0 <i>lb</i>	
D-Air 3000L	0.01 gal/bbl	5.0 <i>gal</i>	
Barite (Baroid)	228.02 lb/bbl	12,558.0 <i>lb</i>	barite supplied by reochem

Properties
Lab Report 2761548/2
Trademark
Density 12.5 <i>lb/gal</i>
Yield 2.46 <i>cuft/sk</i>
Water Req. 15.48 <i>gal/bbl</i>
Mix Fluid Req. 35.29 <i>gal/bbl</i>
Vol. Mixed 55.0 <i>bbl</i>
Vol. Pumped 50.0 <i>bbl</i>

Water Information
Mix Water Vol. 46.2 <i>bbl</i>
Mix Fluid Vol. 55.0 <i>bbl</i>
Source Bore

Fluid Type: Other

Fluid Name: mud displacement

Order: 5

Chemicals	Conc.	Total	Notes/ Batch

Properties
Lab Report
Trademark
Density 11.5 <i>lb/gal</i>
Yield <i>cuft/sk</i>
Water Req. <i>gal/sk</i>
Mix Fluid Req. <i>gal/sk</i>
Vol. Mixed <i>bbl</i>
Vol. Pumped 339.5 <i>bbl</i>

Water Information

HALLIBURTON Cementing					Job Summary	
Customer: Sweetpea Petroleum		Job Code: CMT Production Casing BOM - 7523				
VIDA: H081363		Well Name: Maverick T463-A1-V			Sales Order: 907973558	
					Mix Water Vol.	bbl
					Mix Fluid Vol.	bbl
					Source	
Fluid Type: Other		Fluid Name:				Order: 6

Customer: Sweetpea Petroleum

Job Code: CMT Production Casing BOM - 7523

VIDA: H081363

Well Name: Maverick T463-A1-V

Sales Order: 907973558

Returned Fluids

Spacer(s) Pumped: 50.0 bbl Lead Cement Pumped: 131.4 bbl Cement to Surface: 0.0 bbl
 Spacer to Surface: 50.0 bbl Tail Cement Pumped: 56.5 bbl Lost Returns: 0.0 bbl

Job Event Records

Date	Time	Volume bbl	Rate bbl/min	Pressure		Job Description
				High	Low	
05-Oct-22						cement delivery 730 sx htb cement received by leigh Munn
11-Oct-22						mark / josh change out with leigh / scott
15-Oct-22	12:30 PM					mix chems with out retarders
	06:00 PM					return to camp
15-Oct-22	12:00 AM					problems getting casing to depth
17-Oct-22	10:00 AM					permission to dump lead mix water/chems/ new programe
18-Oct-22	09:00 AM					new cement programe supplid
	09:30 AM					measure chems for mix fluid from storage container
	10:30 AM					start mixing new lead and tail mix fluid
	04:00 PM					finish mix fluid retarders aded
17-Oct-22	06:00 AM	-	-	-	-	END OF PREVIOUS JOB
18-Oct-22	09:00 AM	-	-	-	-	depart from Camp
18-Oct-22	09:05 AM	-	-	-	-	Arrive at Ensign 970
	04:30 PM					PJSM
17-Oct-22	06:00 PM					Rig up lines/ cement head/bottom plug loaded/ rig circulating
18-Oct-22	04:52 PM	3.0	4.0			Prime surface lines
	04:55 PM				500	Low P.T
	05:00 PM			6,000		High P.T
	05:09 PM	200.0				rig pumps 200 bbl 10.9 mud spacer
		50.0				rig pumps 50 bbl tuned spacer
	06:35 PM					drop bottom plug
	06:37 PM	131.4	3.5			mix check weight/ start pumping lead cement 13.5 ppg
	07:30 PM					mix check weight 15.8 ppg tail cement
	07:42 PM					start pumping tail cement due to pack off in cement delivery line
	08:29 PM	0.2	1.0			drop top plug
	08:30 PM	325.0	5.0			hand over to rig to displace
	09:19 PM	14.5	2.0			take over final displacement to bump with mud from rig
	09:29 PM			2,600		bump plug
	09:30 PM					pressure up casing
	09:35 PM			5,000		comence casing pressure test
	09:45 PM	4.5				bleed off casing test check floats holding
	09:50 PM					rig down / wash up unit
18-Oct-22	09:52 PM					Begin wash-up
18-Oct-22	11:45 PM				-	Depart from Ensign 970
18-Oct-22	11:48 PM				-	Arrive at Camp

END of Job Logs

HALLIBURTON | Cementing**Key Performance Indicators**

Customer: Sweetpea Petroleum

Job Code: CMT Production Casing BOM - 7523

VIDA: H081363

Well Name: Maverick T463-A1-V

Sales Order: 907973558

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>	41.8		
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>	5		
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>	1		
Reason for Unplanned Shutdown <i>Reason for Unplanned Shutdown (after starting to pump)</i>	packed off cement delivery line		
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>	No		
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>	Yes		
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>	100		
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>	Yes		
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	<i>lb/gal</i>
When did cement return to surface?	0.0	<i>bbl into</i>	disp.

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Customer Satisfaction Survey

Well Information			
Sales Order #:	907973558	Line Item:	01
Customer:	Sweetpea Petroleum	Job Type (BOM):	CMT Production Casing BOM - 7523
Customer Rep./Phone:		API / UWI:	(Leave Blank if unknown)
Well Name:	Maverick T463-A1-V	Job Date:	18-October-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>	
Survey Interviewer	<i>The survey interviewer is the person who initiated the survey</i>	
Customer Participation	<i>Did the customer participate in this survey? (Circle)</i>	Yes / No
Customer Rep.	<i>Enter the Customer representative name</i>	
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: 907973558

Well Name: Maverick T463-A1-V

Source: Day tank

Rig Name: Ensign 970

Test Date: 15-Sep-22

VIDA Number: H081363

Tested By: josh schoof

Job Type: Production Casing

Test Values					
Test		Lower	Test Value	Upper	Slurry Response
Water Temperature	(°C)	10	30	38	High temperatures will accelerate cement. Low temperatures will retard cement.
pH		6	8.0	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 multiplied by 4 (to account for dilution).			
Total Hardness (ppm)		0	400	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 multiplied by 2 (to account for dilution).			
Chlorides (ppm)		0	200	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: tim brown

Date: 16-Oct-22

HALLIBURTON | Cementing

Field Ticket

Sales Order Number: 907973558

Sales Order Date: October 18, 2022

Invoice Information			
Bill To: Sweetpea Petroleum	Currency: AUD	OCR/ WSR:	
Customer #: 390513	Rig Name: Ensign 970	Eng./ Approver:	
VIDA #: H081363	Well Name: Maverick T463-A1-V	PO/ Project #:	
Plant: 1172 - Roma	Job Purpose: CMT Production Casing BOM - 7523	Work Order #:	
		Date:	

SAP	Description	Qty	UoM	Qty	UoM	UNIT Amount	GROSS Amount	Discount		NET Amount	PSL
								%	Amount		
994138	Barazan D	110	lb			4.67	513.70	10.0%	51.37	462.33	
212324	Tuned Spacer V	110	lb			19.79	2,176.90	10.0%	217.69	1,959.21	
100003653	CFR-3	450	lb			10.48	4,716.00	10.0%	471.60	4,244.40	
101007444	D-Air 3000L	25	gal			143.01	3,575.25	10.0%	357.53	3,217.73	
120003193	Gascon 469	387	gal			21.82	8,444.34	10.0%	844.43	7,599.91	
100003670	Halad 344	1,500	lb			47.40	71,100.00	10.0%	7,110.00	63,990.00	
100003738	Halad 413	550	lb			49.53	27,241.50	10.0%	2,724.15	24,517.35	
100003749	SCR-100	100	lb			46.18	4,618.00	10.0%	461.80	4,156.20	
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Comments		SUB-TOTAL from this page	110,147.12
			Austr. Dollars
HALLIBURTON	HALLIBURTON	TOTAL	110,147.12
Mark Dale	(SAP: H257910) Signature	Taxes 10%	11,014.71
Customer Name	Customer Signature	GRAND TOTAL	121,161.83
			Austr. Dollars

Sweatpea Maverick 3 1 7.625 inch casing cement job 18/10/2022

