



**Occidental Petroleum Corporation**

**SBJ 13-11HZ**

**Surface Casing**

**Date: October 09, 2021**



Author: Yithanlily Silvester

Yithanlily.Silvester@magnumcement.com



## SBJ 13-11HZ – Surface Casing

---

### *Disclaimer*

The information provided in this report is confidential and intended solely for the use of the individual or entity to whom they are addressed. Magnum Cementing Services Technical Team give a based-on facts interpretation. If you are not the named addressee you should not disseminate, distribute, or copy this information. Please notify the sender immediately by e-mail if you have received this report by mistake and delete it from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing, or taking any action in reliance on the contents of this information is strictly prohibited. Any use of this information for the decision-making process is exclusively Customer responsibility.



## Table of Contents

Disclaimer.....	2
1. Project Background.....	4
2. Cement Blend Data .....	5
3. Pump Schedule .....	6
4. Job Sequence / Procedure 1 of 2 .....	7
Job Sequence / Procedure 2 of 2 .....	8
5. Job Graph.....	9



## SBJ 13-11HZ – Surface Casing

---

### ***1. Project Background***

On October 09, 2021, Magnum utilized PCMP-Q technology on the surface casing cementing job with a total of 344 bbl mixed and pumped, and maximum combined displacement rate of 6 bbl/min. The total time of operations was 2 hours.



## SBJ 13-11HZ – Surface Casing

---

### 2. Cement Blend Data

This is the blend data of the Cement ordered for the job.

Blend Description	Cement Properties
Base Cement Blend : MAG S 14.1	
Mix Water (gal/sk)	5.89
Yield (ft <sup>3</sup> /sk)	1.28
Lab Results	
Density (ppg)	14.1
Working Time (hr:min)	2:13
Thickening Time (hr:min)	3:05
Compressive Strength (psi/12h)	698
Compressive Strength (psi/24h)	1070
Mix water Temperature (°F)	65
Slurry Temperature (°F)	65



SBJ 13-11HZ – Surface Casing

3. Pump Schedule

Service Supervisor	W.Silvester
Client	OCCIDENTAL
Well	SBJ 13-11 HZ
Job Type	SURFACE
JOB #	109469



PRESSURE TEST      LOW 500 PSI      HIGH 2500 PSI

Job Procedure		Density	Adds	
Sequence	Pump		BPM	
Fill Lines	5 BBLS	8.33 ppg	3	
PRESSURE TEST	2500 BBL			
Fresh water	5 bbls	8.3 ppg	3	
Mag Mark	10 BBL	8.3 ppg	3	
Fresh water	10 bbls	8.3 ppg	3	
Tail	179 BBL	14.1 ppg	6	
Drop Top Plug				
Displacement	139.66		6	
Bump Top Plug				
Shoe Joint Volume	3.25 BBL			

Cement to Surface      9.9 BBLS      Spacer to Surface = 30 bbls

Total Water Needed	360.0 bbl
Lift Pressure	1,036.1 psi
Differential Pressure	583.1 psi
Pressure Test	2500 psi
	SLURRY      MIX WATER
SILO # 8120	179.39      110.3533571

Lead	1.64 cuft/sk 8.59 gal/sk
Tail	1.28 cuft/sk 5.89 gal/sk



## SBJ 13-11HZ – Surface Casing

### 4. Job Sequence / Procedure 1 of 2

		US Treatment Report			
<b>Customer:</b> OCCIDENTAL PETROLEUM CORP. <b>Rep:</b> David Cornett <b>Supervisor:</b> WILLIAM (WAYNE) SILVESTER <b>Job Type:</b> US Primary Casing-Surface		<b>Rig:</b> Ikon 12 <b>Well:</b> SBJ 13-11HZ <b>UWI:</b> SBJ 13-11HZ <b>Surface:</b> T4N R68W S13		<b>Job #:</b> JOB00109469 <b>Job Date:</b> Oct 08 @ 00:00 <b>Time Requested:</b> Oct 08 @ 22:00 <b>Time Arrived:</b> Oct 08 @ 18:20 <b>Time Released:</b> Oct 08 @ 18:20	
0 sk      MAG S 14.1 + 1.00% MCA-1 + 0.10% MCDF-P					
		Yield: 1.28 ft3/sk = 0bbls		Mix Water: 5.89 gal/sk = 0gal	
BHCT (F)	81	BHST (F)	81	Surface Casing Casing Size (in)	9.625
Surface Casing Grade	L-80	Surface Casing Weight (lb/ft)	40	Float Depth (ft)	1842.8
Funnel Vis (sec/qt)	TBD	Hole Size (in)	13.5	Max Pressure (psi)	2
Mud Density (lb/gal)	8.6	Mud Type	wbm	Plug Size (in)	9.625
Plug Type	Rig Supplied	Surface Casing (in)	9.625	Surface Casing Length (ft)	1879.7
Surface Casing WT (lb/ft)	40	TMD (ft)	1884.7	TVD (ft)	1
Unkown UDF	Surface Casing		1		1879.7
Treatment Info:      Sacks Used: 0      Sacks Not Used: 0					
Preflush: 10bbls Fresh Water & 10bbls MAG Mark & 10bbls Fresh Water				Circulation Time: 1	
Displace:				Slurry Temp: 72	Bulk Sample: Yes
				Water Temp: 68	Water Sample: Yes
				Bulk Temp: 54	Slurry Sample: Yes
				Air Temp:	Air Pressure 29.7
					7
Slurry Returns: 10	Plug Bumped: Yes	Pump Out Lines: Yes	Float Held: Yes		
Cement Class:	Type III	Humidity: 69	Precipitation: 0		



## SBJ 13-11HZ – Surface Casing

### Job Sequence / Procedure 2 of 2

Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/mi n	Treatment Detail
22:00	0.00					Arrive on Location - ARRIVED ON LOCATION SPOKE WITH COMPANY REP GOT PIPE TALLY WATER TEST COMPLETE
00:30	0.00					Safety Meeting - SPOKE ABOUT STOP WORK AUTHORITY,VOL,DEPTH,DISPLACEMENT ,SAFETY MUSTER AREA
00:40	30.00			5	3	Fill Lines - WITH 5 BBLS DROP BOTTOM PLUG
00:45	2,540.00					Start Pressure Test - TO 2540 PSI
00:50	35.00			25	3	Pump Preflush - = 10 BBLS OF FRESH WATER 10 BBLS OF MAG MARK 10 BBLS OF FRESH WATER
01:00	60.00				5	Pump Slurry - = 786.9 SKS 1.28 FT3/SK 5.89 GPS=179 BBLS WET & DRY SAMPLES TAKEN WEIGHT CHECKED BURST BOTTOM PLUG SLOWED RATE @ 100 BBLS OF SLURRY AWAY GOOD RETURNS
01:50	35.00				3	Drop Plug
01:55	300.00				6	Displace - =139.66 BBLS GOOD RETURNS CEMENT TO SURFACE @ 129 BBLS AWAY
02:25	0.00					Bump Plug - TO 1230 PSI HELD FOR 3 MINS CHECK FLOAT IT HELD
03:00	0.00					Leave Location



# SBJ 13-11HZ – Surface Casing

## 5. Job Graph

