

# Post Job Report



Service with Integrity

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Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/05/2023

Well Name: [SWARTZ 4-08HZ](#)

API #: 05-123-51919

Service Station: Cheyenne

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Client Representative: Ben Petty

Sales Representative: Steve Moore

Author: Yithanlily Silvester

Report Date: 01/2024

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## Table of Contents

1. Well Properties & Cement Blend Data .....	1
2. Job Sequence / Procedure 1 of 2 .....	2
Job Sequence / Procedure 2 of 2 .....	3
3. Job Graph .....	4
4. Lab Testing Results.....	5

## 1. Well Properties

Well Properties	
Hole Size (in)	13.5
Casing Size (in)	9.625
Grade / Weight (lb/ft)	L80/36
TVD/TMD (ft)	1810/1870
BHCT / BHST (F)	88/103

## 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)	14.1
Yield (ft <sup>3</sup> /sk)	1.31
Lab Results	
Density (ppg)	14.1
Working Time (hr:min)	3:12
Thickening Time (hr:min)	3:50
Compressive Strength (psi/12h)	691
Compressive Strength (psi/24h)	1283

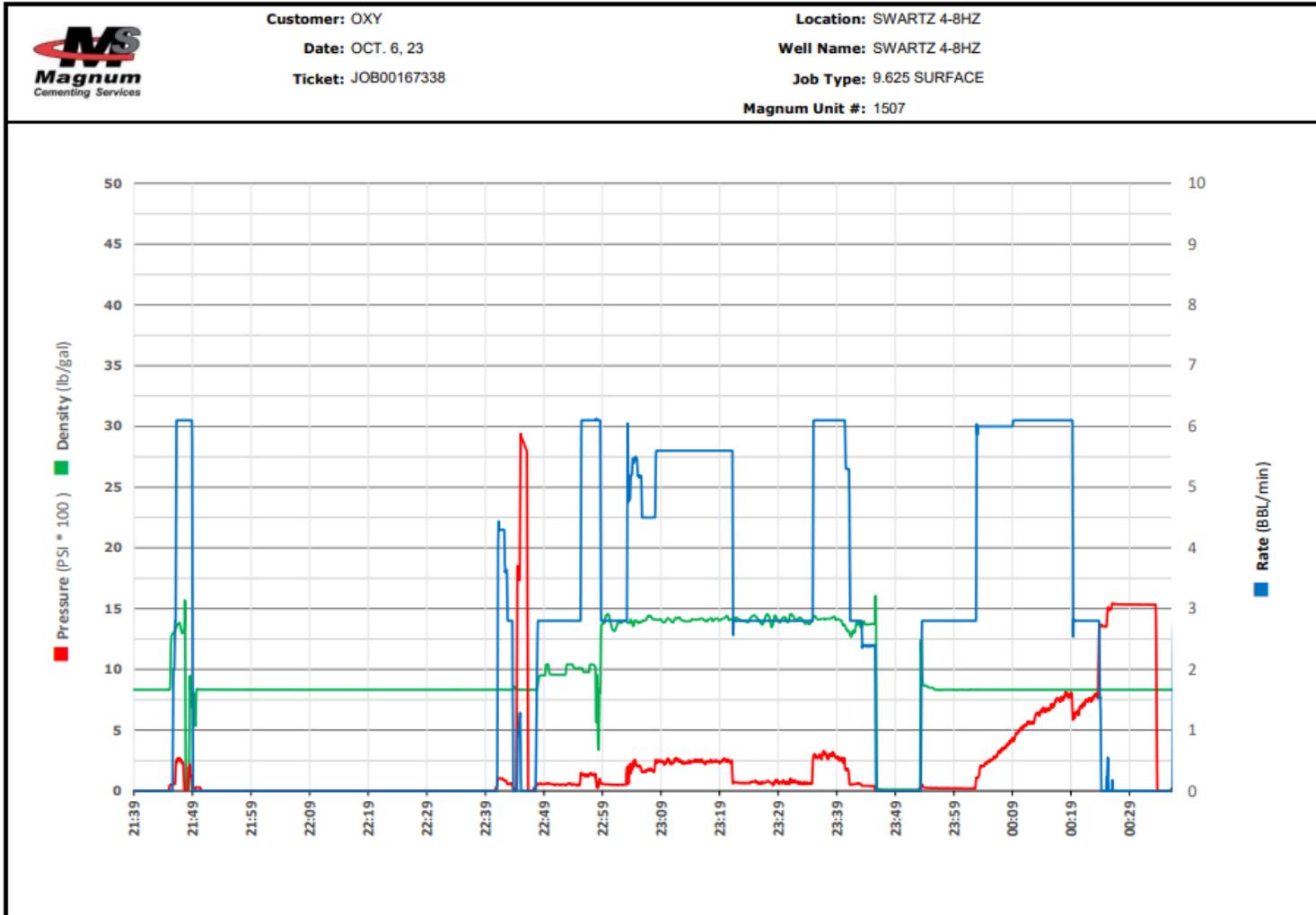
## 2. Job Sequence / Procedure 1 of 2

		Treatment Report			
Customer: Occidental Petroleum Corp.		Job #:		JOB00167338	
Rep: David Cornett		Rig: IKON 112		Job Date: Oct 05 @ 21:10	
Supervisor: Michael Lopez		Well: SWARTZ 4-8HZ		Time Requested:	
Job Type: US Primary		UWI: SWARTZ 4-8HZ		Time Arrived: Oct 05 @ 21:10	
Casing-Surface		Surface: NWNE SEC4 T3N R67W		Time Released: Oct 06 @ 01:10	
 853.9 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0					
Yield:		1.31m3/t = 1118.61m3		Mix Water: 6.06m3/t = 5174.63m3	
BHCT (°C, °F)	88	BHST (°C, °F)	103	Float Depth (m, ft)	1821.02
Funnel Vis (sec/L, sec/qt)	TBD	Max Pressure (MPa, psi)	1500	Mud Type	WBM
Plug Size (mm, in)	9.625	Plug Type	Rig Supplied	TMD (m, ft)	1870
TVD (m, ft)	1810				
					
Treatment Info:	Tonnes Used:	Tonnes Not Used:	0.00		
Preflush:	40m3 MAG Sweep		Circulation Time:	1	
		Slurry Temp:	75	Bulk Sample:	Yes
Displace:	141.9m3 Fresh Water	Water Temp:	53	Water Sample:	Yes
		Bulk Temp:	68	Slurry Sample:	Yes
Slurry Returns:	30 Plug Bumped:	Yes Pump Out Lines:	Float Held:	Yes	

## Job Sequence / Procedure 2 of 2

Time	Pressure MPa	Annular Pressure MPa	Volume Per Stage m3	Total Stage Volume m3	Rate m3/min	Treatment Detail
21:30	0.00					Arrive on Location
22:22	0.00					Safety Meeting - SPOKE WITH COMPANY MAN; WATER TESTED: PH-8; HARDNESS-25 PPM; CHLORIDES- 296 PPM
22:39	100.00		10	10.00	4	Fill Lines - 10 BBLs DYE; BOTTOM PLUG LOADED COMPANY MAN VERIFIED
22:43	0.00					Start Pressure Test - HIGH: 2900 PSI
22:47	150.00		40	40.00	6	Pump Preflush - MAG SWEEP
22:58	223.00		199.2	199.20	5.5	Pump Slurry - MAG S 14.1; 853.9 SKS; 1.31 CUFT/SKS; 6.06 GAL/SK; TT: 3:50; TOT.SURFACE: 30 BBLs; WET SAMPLE WEIGHED
23:20	120.00		110	110.00	3	SLOWED DOWN TO BURST MEMBRANE; BURST @ 131 BBLs-120 PSI
23:34	350.00				6	INCREASED RATE
23:44	0.00					Stop Pumping
23:52	0.00					Drop Plug - COMPANY MAN VERIFIED
23:54	750.00		121.9	121.90	5	Displace - FW; FIRST 20 BBLs - 6 BPM - 26 PSI; 70 BBLs - 6 BPM - 350 PSI; 121.9 BBLs - 6 BPM - 750 PSI
00:19	575.00		20	141.90	3	Decrease Rate - LAST 20 BBLs
00:23	0.00					Bump Plug - BUMP: 1300 PSI; CIRC. PRESS: 800 PSI; BUMPED UP THE PRESSURE TO 1500 PSI
00:25	0.00					Check Floats - HOLD 5 MINS; 1 BBL BACK; BLED OFF 00:31 AM
01:30	0.00					Leave Location

### 3. Job Graph



### 4. Lab Testing Results

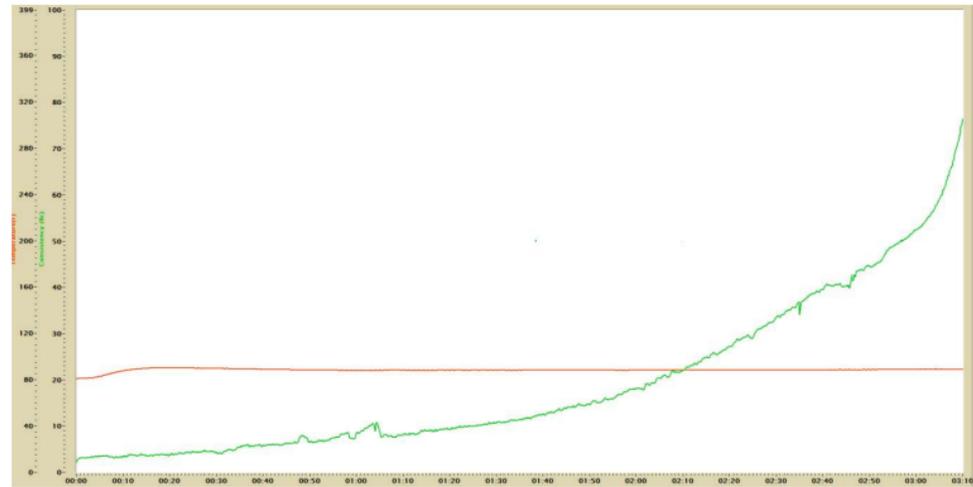
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

SECTION IV: WELL INFORMATION			
CEMENT TYPE:	Surface Casing		
TMD (ft):	1849	BHCT °F:	88
TVD (ft):	1800	BHST °F:	103
MUD Type:	WBM		

SECTION V: BLEND INFORMATION					
Blend Name:	MAG S 14.1				
Additives	(%)	Pre-hydrated additive	Specific Condition	Density:	14.1 lbs/gal
MCA-1	0.25	<input type="checkbox"/>		Mix water:	6.07 gal/sk
MCDF-P	0.10	<input type="checkbox"/>		Yield:	1.31 ft <sup>3</sup> /sk
				Lab Cement:	<input type="checkbox"/>
				Lab Water:	✓
				Field Cement:	✓
				Field Water:	<input type="checkbox"/>

SECTION VI: TEST RESULTS							
Load Ticket #	Working Time (40Bc)			Thickening Time (70Bc)			
18574 (4-6HZ)	2:34			3:10			
Compressive Strength (psi)	8hr	12hr	24hr	48hr	Time to 500 psi		
	1147	1518	1870	--	4:18		
Rheology (D.R.)	300	200	100	6	3	@10sec	@10min
	62	54	44	26	22.1	23.3	27.3

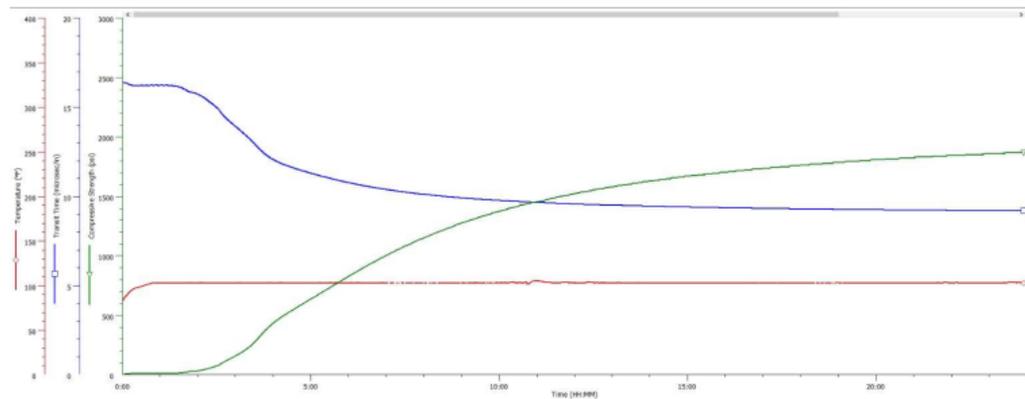
**THICKENING TIME TEST RESULTS**



**TESTED CEMENT INFORMATION**

BLEND NAME: MAG S 14.1  
 BHCT °F: 88  
 WORKING TIME (40Bc): 2:34  
 THICKENING TIME (70Bc): 3:10

**COMPRESSIVE STRENGTH (UCA) TEST RESULTS**



BLEND NAME: MAG S 14.1  
 BHST °F: 103

STRENGTH @8hr (psi)	STRENGTH @12hr (psi)	STRENGTH @24hr (psi)	STRENGTH @ 48hr (psi)	TIME TO 500 psi (HH:MM)
1147	1518	1870	--	4:18

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