

# Post Job Report



Service with Integrity

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Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/10/2023

Well Name: [SWARTZ 4-14HZ](#)

API #: 05-123-51916

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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## 1. Well Properties

Well Properties	
Hole Size (in)	13.5
Casing Size (in)	9.625
Grade / Weight (lb/ft)	L80/36
TVD/TMD (ft)	1827/1876
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

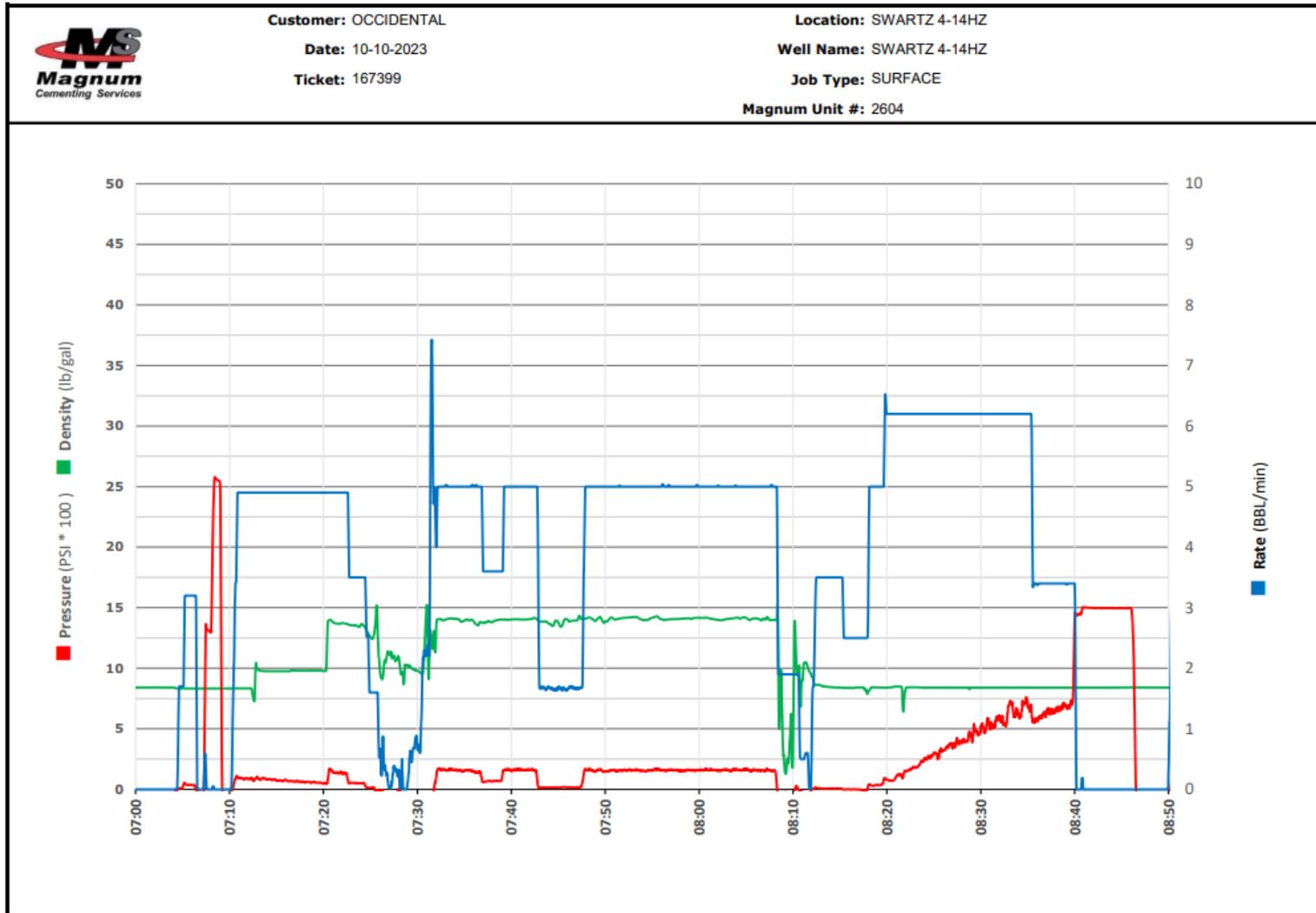
## 2. Job Sequence / Procedure 1 of 2

		Treatment Report			
Customer: Occidental Petroleum Corp.		Job #:		JOB00167399	
Rep: David Cornett		Rig: IKON 112		Job Date: Oct 10 @ 03:10	
Supervisor: Jamaya Henry		Well: SWARTZ 4-14HZ		Time Requested:	
Job Type: US Primary		UWI: SWARTZ 4-14HZ		Time Arrived: Oct 10 @ 03:10	
Casing-Surface		Surface: NWNE SEC4 T3N R67W		Time Released: Oct 10 @ 10:10	
 815.8 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0					
Yield:		1.31m3/t = 1068.7m3		Mix Water: 6.06m3/t = 4943.75m3	
1 Grade	L80	1 Size (mm, in)	9.625	1 Weight (kg/m, lb/ft)	36
BHCT ('C, 'F)	88	BHST ('C, 'F)	103	Collapse Csg Pressure (MPa, psi)	2020
Float Depth (m, ft)	1827	Max Csg Pressure (MPa, psi)	3520	Max Pressure (MPa, psi)	2500
Mud Type	WBM	Plug Size (mm, in)	9.625	Plug Type	Rig Supplied
TMD (m, ft)	1876	TVD (m, ft)	1827		
 Treatment Info:      Tonnes Used:      Tonnes Not Used:      0.00					
Preflush:	10m3 MAG Mark & 40m3 MAG Sweep			Circulation Time:	1
Displace:	143m3 Fresh Water	Slurry Temp:	74	Bulk Sample:	Yes
		Water Temp:	60	Water Sample:	Yes
Slurry Returns:	26 Plug Bumped: Yes	Bulk Temp:	60	Slurry Sample:	Yes
		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
03:30	0.00	0.00		0.00		Arrive on Location - GOT NUMBERS FROM COMPANY MAN, PRE LOADED TOP PLUG, TESTED WATER PH-7 CHLORIDE-100 HARDNESS 100
07:30	0.00	0.00		0.00		Safety Meeting - HELD SAFETY AND PRE JOB MEETING WITH COMPANY MAN, AND MAGNUM CREW
07:42	75.00	0.00		5.00	3.2	Fill Lines - LOADED BOTTOM PLUG INTO CASING
07:45	2500.00	0.00		0.00	.5	Start Pressure Test - 2500 PSI
07:48	600.00	0.00		10.00	5	Pump Preflush - 10 BBL MAG MARK
07:51	125.00	0.00		40.00	5	Pump Preflush - 40 BBL MAG SWEEP
07:59	177.00	0.00		190.00	5	Pump Slurry - MAG S 14.1, 815.80 SKS, YEILD 1.31 FT3/SK, MIX 6.06 GAL/SK, TT-3:50
08:47	0.00	0.00		0.00		Stop Pumping
08:48	0.00	0.00		0.00		Drop Plug - WITNESSED BY COMPANY MAN
08:50	457.00	0.00		0.00	6	Displace - FRESH WATER
09:13	860.00	0.00	123	0.00	3.0	Slow Rate Pumping - SLOWED LAST 20 BBL TO BUMP PLUG
09:19	1500.00	0.00	20	143.00		Bump Plug - AT 1500 PSI 40 BBLS OF SPACER AND 26 BBLS OF CEMENT TO SURFACE, 143 BBLS TOTAL OF DISPLACEMENT
09:20	1500.00	0.00		0.00		Start Pressure Test - HOLD PRESSURE FOR 5 MINUTES, 1 BBLS BACK, FLOATS HELD
09:30	0.00	0.00		0.00		Wash Up Truck

### 3. Job Graph



### 4. Lab Testing Results

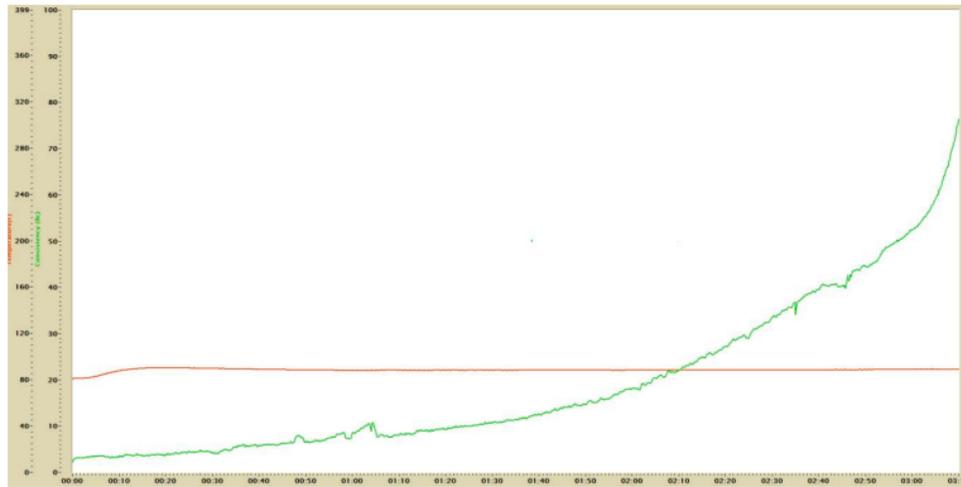
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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

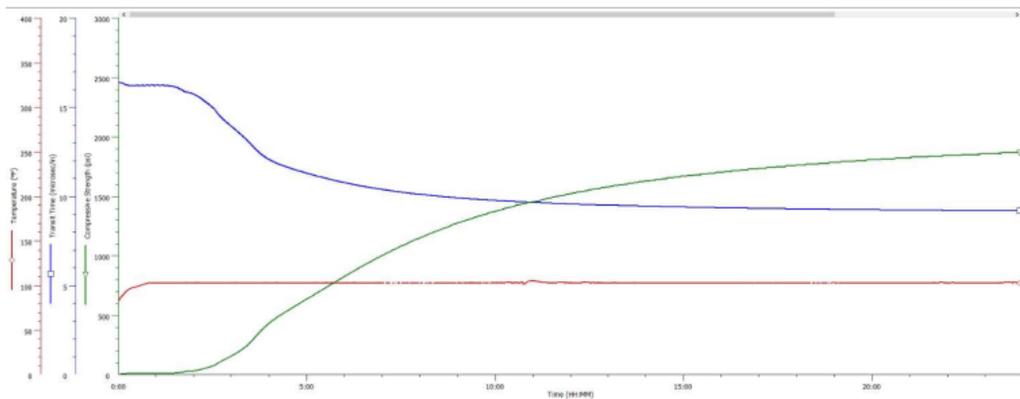
**THICKENING TIME TEST RESULTS**



**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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