

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/08/2023

Well Name: [SWARTZ 4-12HZ](#)

API #: 05-123-51924

Service Station: Cheyenne

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)	1808/1850
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 ³ /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

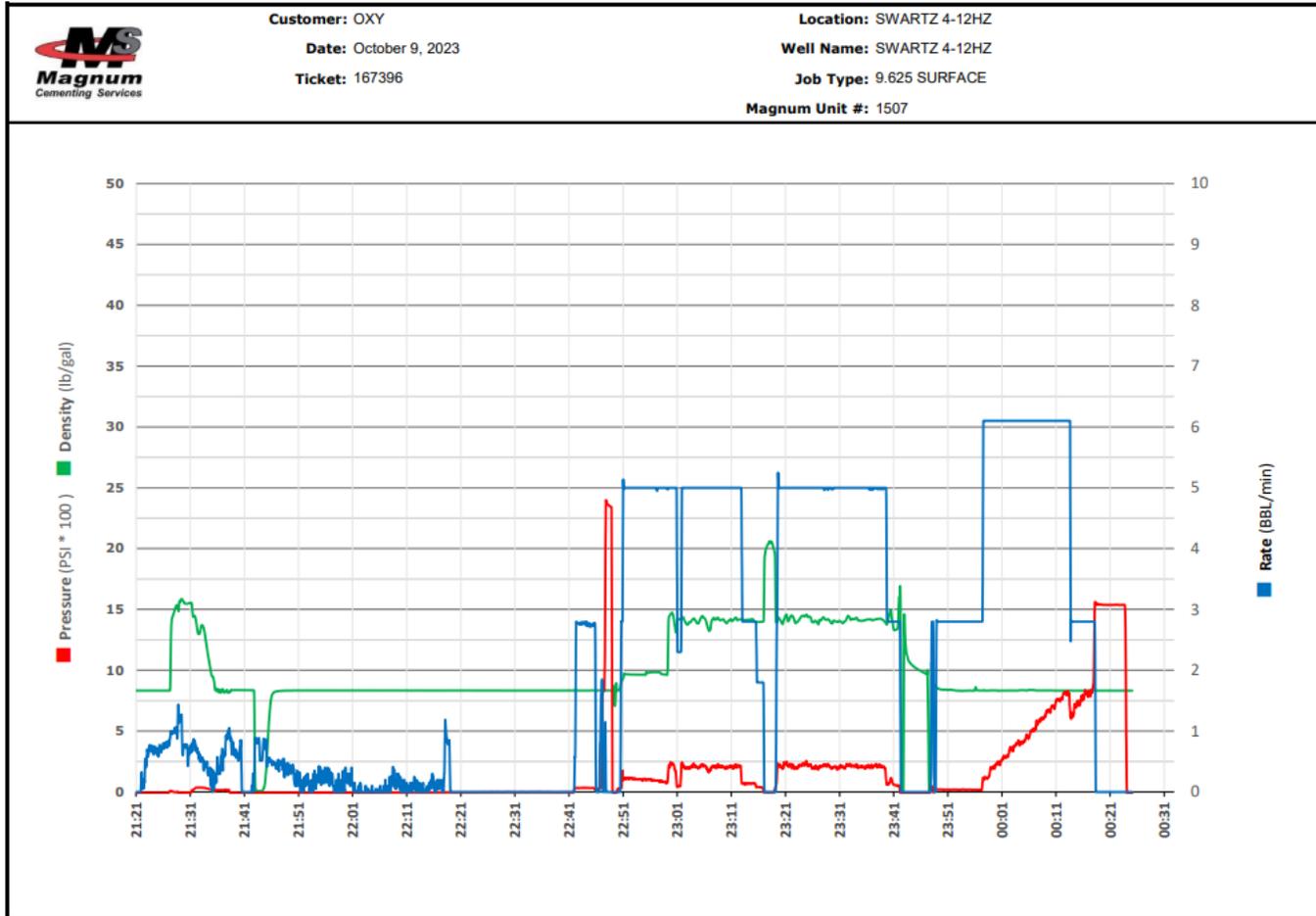
2. Job Sequence / Procedure 1 of 2

		Treatment Report			
Customer: Occidental Petroleum Corp.		Job #:		JOB00167396	
Rep: David Cornett		Rig: IKON 112		Job Date: Oct 08 @ 21:10	
Supervisor: Michael Lopez		Well: SWARTZ 4-12HZ		Time Requested:	
Job Type: US Primary		UWI: SWARTZ 4-12HZ		Time Arrived: Oct 08 @ 21:10	
Casing-Surface		Surface: NWNE SEC4 T3N R67W		Time Released: Oct 09 @ 01:10	
 813.8 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0					
Yield:		1.31m3/t = 1066.08m3		Mix Water: 6.06m3/t = 4931.63m3	
1 Grade	L80	1 Size (mm, in)	9.625	1 Weight (kg/m, lb/ft)	36
BHCT (°C, °F)	88	BHST (°C, °F)	103	Float Depth (m, ft)	1800.03
Max Pressure (MPa, psi)	1500	Mud Type	WBM	Plug Size (mm, in)	9.625
Plug Type	Rig Supplied	TMD (m, ft)	1850	TVD (m, ft)	1808
					
Treatment Info:	Tonnes Used:	Tonnes Not Used:	0.00		
Preflush:	40m3 MAG Sweep	Slurry Temp:	75	Bulk Sample:	Yes
Displace:	140.4m3 Fresh Water	Water Temp:	56	Water Sample:	Yes
Slurry Returns:	22 Plug Bumped:	Bulk Temp:	68	Slurry Sample:	Yes
		Yes Pump Out Lines:		Float Held:	Yes
					1

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
22:10	0.00					Safety Meeting - SPOKE WITH COMPANY MAN; WATER TESTED: PH-8; HARDNESS-25 PPM; CHLORIDES- 296 PPM
22:30	43.00		10	10.00	3	Fill Lines - 10 BBLs DYE; BOTTOM PLUG LOADED COMPANY MAN VERIFIED
22:46	2400.00					Start Pressure Test - HIGH: 2400 PSI
22:48	110.00		40	40.00	5	Pump Preflush - MAG SWEEP
22:57	238.00		190.3	190.30	5	Pump Slurry - MAG S 14.1; 815.8 SKS; 1.31 CUFT/SKS; 6.06 GAL/SK; TT: 3:50; TOT: SURFACE: 22 BBLs; WET SAMPLE WEIGHED
23:40	0.00					Stop Pumping
23:45	0.00					Drop Plug - COMPANY MAN VERIFIED
23:46	700.00		120.4	120.40	6	Displace - FW; FIRST 20 BBLs - 3 BPM - 23 PSI; 70 BBLs - 6 BPM - 310 PSI; 120.4 BBLs - 6 BPM - 566 PSI
00:13	735.00		20	140.40	3	Decrease Rate - LAST 20 BBLs
00:16	1500.00					Bump Plug - BUMP: 1500 PSI; CIRC. PRESS: 800 PSI
00:22	0.00					Check Floats - HOLD 5 MINS; 1 BBL BACK; BLED OFF 00:22 AM
01:00	0.00					Leave Location

3. Job Graph



4. Lab Testing Results

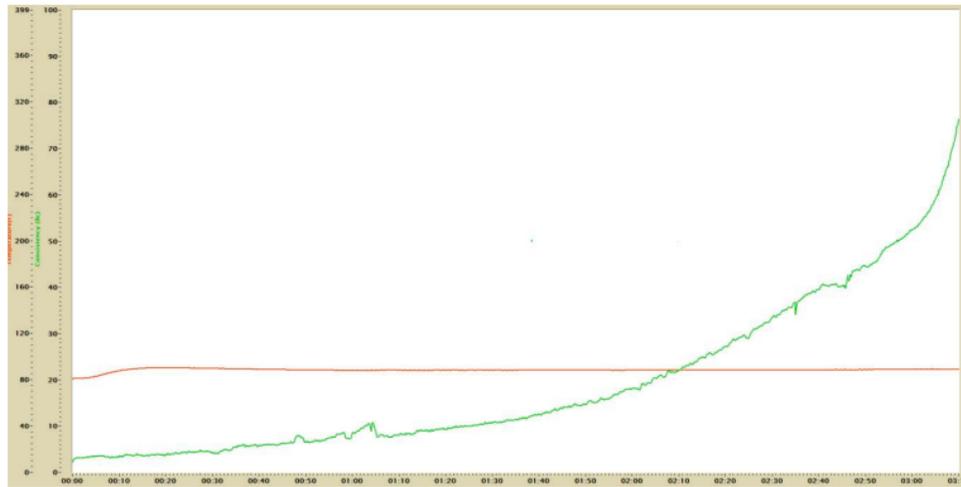
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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 ³ /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

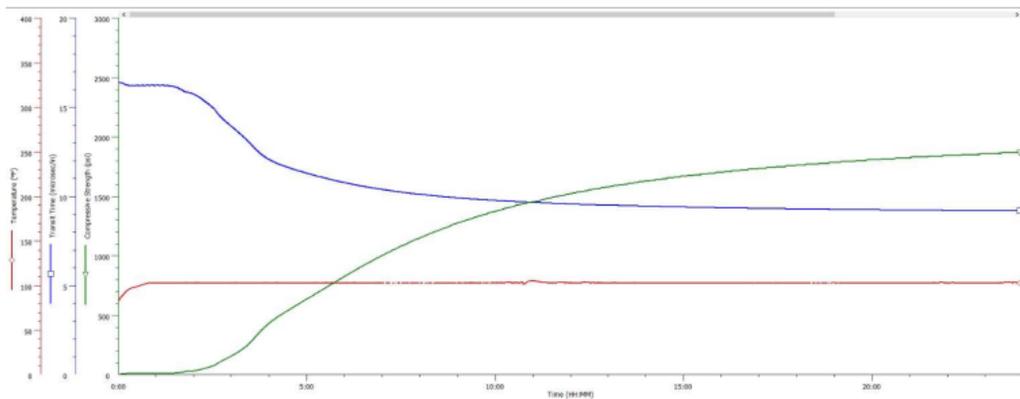
THICKENING TIME TEST RESULTS



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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