

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/07/2023

Well Name: [SWARTZ 4-10HZ](#)

API #: 05-123-51926

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)	1825/1864
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

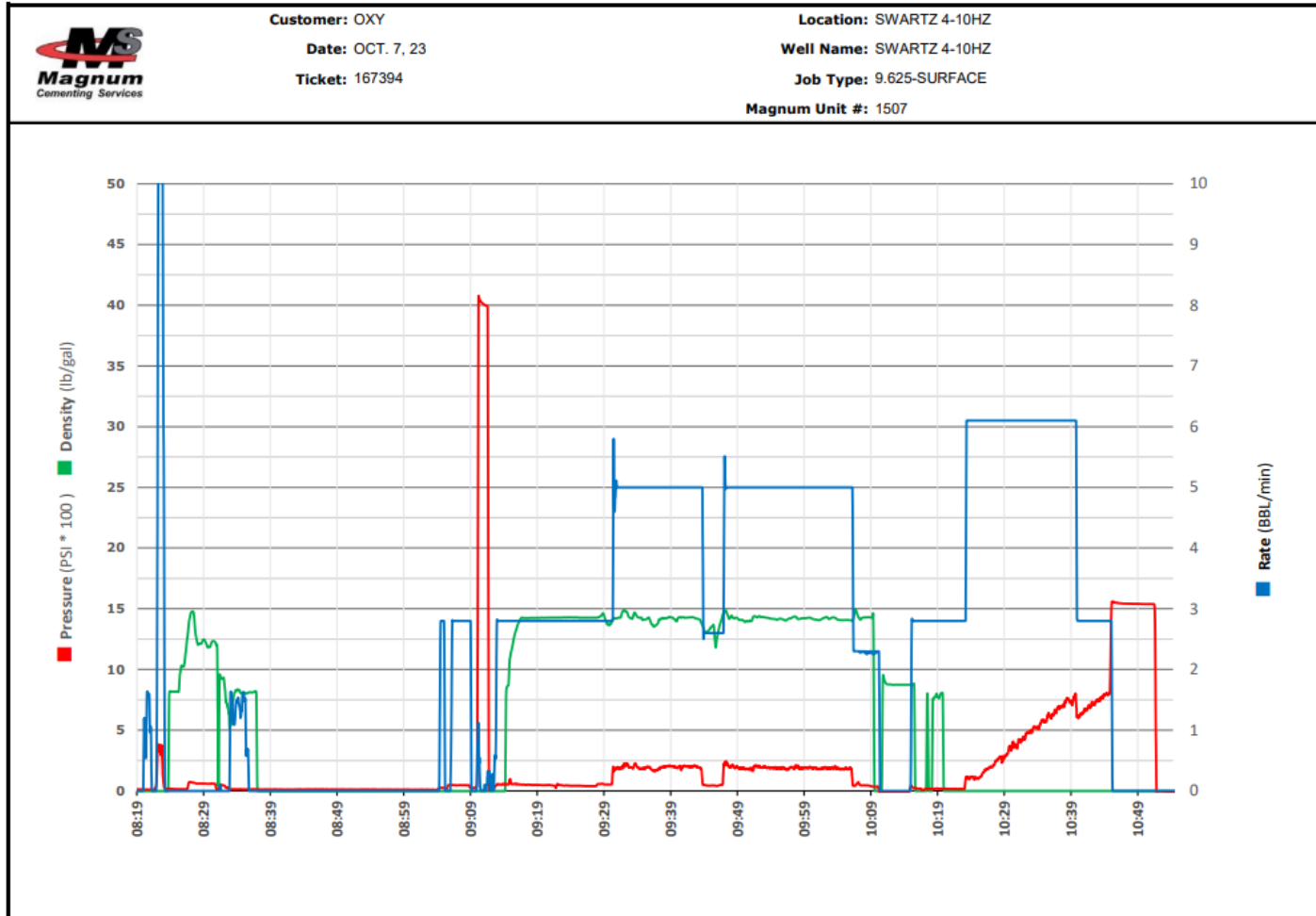
		US Treatment Report			
Customer: OCCIDENTAL PETROLEUM CORP.		Job #: JOB00167394			
Rep: David Cornett		Rig: IKON 112		Job Date: Oct 07 @ 00:00	
Supervisor: MICHAEL LOPEZ		Well: SWARTZ 4-10HZ		Time Requested: Oct 07 @ 05:00	
Job Type: US Primary		UWI: SWARTZ 4-10HZ		Time Arrived: Oct 07 @ 08:30	
Casing-Surface		Surface: NWNE SEC4 T3N R67W		Time Released: Oct 07 @ 11:30	
812.5 sk MAG S 14.1 + 0.25% MCA-1 + 0.10% MCDF-P					
Yield: 1.31 ft ³ /sk = 189.57bbls Mix Water: 6.06 gal/sk = 4923.75gal					
BHCT (F)	88	BHST (F)	103	Surface Casing Size (in)	9.625
Surface Casing Grade	L80	Surface Casing Weight (lb/ft)	36	Float Depth (ft)	1816.5
Max Pressure (psi)	1700	Mud Type	WBM	Plug Size (in)	6 9.625
Plug Type	Rig Supplied	TMD (ft)	1864	TVD (ft)	1825
Treatment Info: Sacks Used: 812.5 Sacks Not Used: 0					
Preflush: 40bbls MAG Sweep				Circulation Time: 1	
Displace: 141.7bbls Fresh Water				Slurry Temp: 75 Bulk Sample: Yes	
				Water Temp: 56 Water Sample: Yes	
				Bulk Temp: 68 Slurry Sample: Yes	
				Air Temp: 39 Air Pressure 30.3	
				2	
Slurry Returns: 26 Plug Bumped: Yes Pump Out Lines: No				Float Held: Yes	
Cement Class: Type III				Humidity: 83 Precipitation: 1	



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
08:30	0.00					Arrive on Location
08:50	0.00					Safety Meeting - SPOKE WITH COMPANY MAN; WATER TESTED: PH-8; HARDNESS-25 PPM; CHLORIDES- 296 PPM
09:03	43.00		10	10	3	Fill Lines - 10 BBLS DYE; BOTTOM PLUG LOADED COMPANY MAN VERIFIED
09:11	47.00		40	40	3	Pump Preflush - MAG SWEEP
09:19	4,000.00					Start Pressure Test - HIGH: 4000 PSI
09:26	200.00		189.5	189.5	5	Pump Slurry - MAG S 14.1; 812.5 SKS; 1.31 CUFT/SKS; 6.06 GAL/SK; TT: 3:50; TOT: SURFACE: 26 BBLS; WET SAMPLE WEIGHED
10:09	0.00					Stop Pumping
10:13	0.00					Drop Plug - COMPANY MAN VERIFIED
10:14	670.00		121.9	121.9	6	Displace - FW; FIRST 20 BBLS - 3 BPM - 17 PSI; 70 BBLS - 6 BPM - 250 PSI; 121.9 BBLS - 6 BPM - 670 PSI
10:38	705.00		20	141.7	3	Decrease Rate - LAST 20 BBLS
10:44	1,550.00					Bump Plug - BUMP: 1550 PSI; CIRC. PRESS: 800 PSI;

3. Job Graph



4. Lab Testing Results

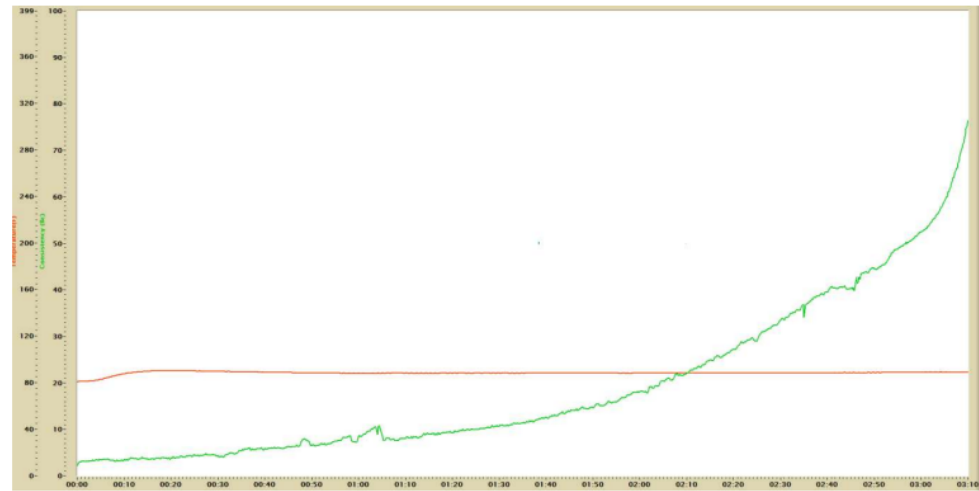
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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

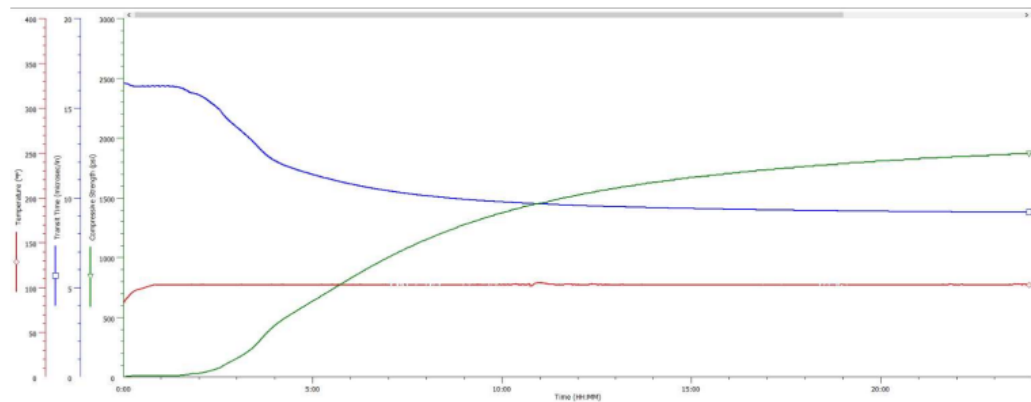
THICKENING TIME TEST RESULTS



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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