

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/07/2023

Well Name: [SWARTZ 4-11HZ](#)

API #: 05-123-51925

Service Station: Cheyenne

Client Representative: Ben Petty

Sales Representative: Steve Moore

Author: Yithanllily 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)	1844/1875
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

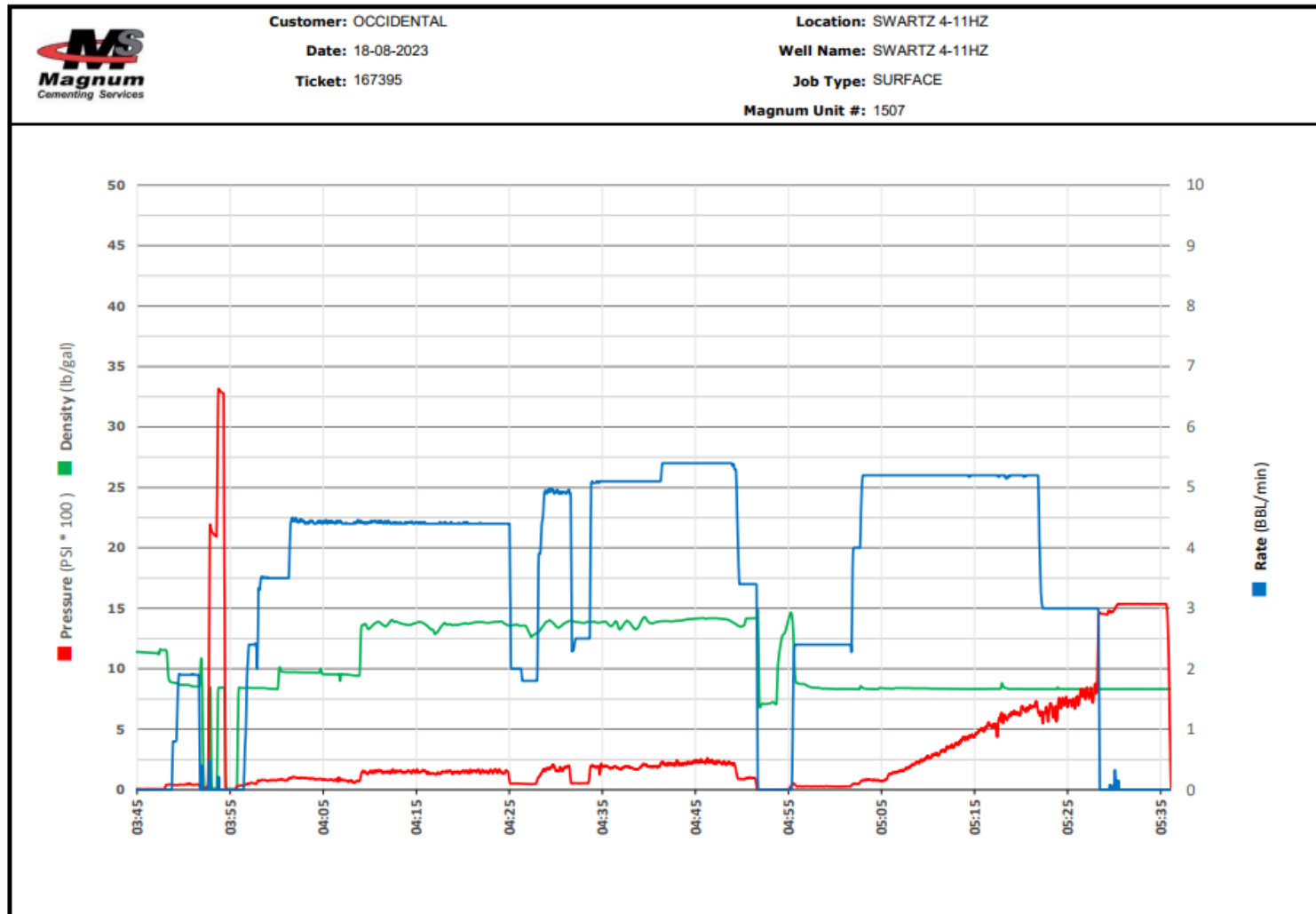
2. Job Sequence / Procedure 1 of 2

		Treatment Report			
Customer: Occidental Petroleum Corp.		Job #: JOB00167395			
Rep: David Cornett		Rig: IKON 112		Job Date: Oct 07 @ 23:10	
Supervisor: Jamaya Henry		Well: SWARTZ 4-11HZ		Time Requested:	
Job Type: US Primary		UWI: SWARTZ 4-11HZ		Time Arrived: Oct 07 @ 23:10	
Casing-Surface		Surface: NWNE SEC4 T3N R67W		Time Released: Oct 08 @ 06:10	
 809.0 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0					
Yield:		1.31m3/t = 1059.79m3		Mix Water: 6.06m3/t = 4902.54m3	
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)	1825	Funnel Vis (sec/L, sec/qt)	TBD	Max Csg Pressure (MPa, psi)	3520
Mud Type	WBM	Plug Size (mm, in)	9.625	Plug Type	Rig Supplied
TMD (m, ft)	1875	TVD (m, ft)	1844		
					
Treatment Info:		Tonnes Used:		Tonnes Not Used: 0.00	
Preflush:	10m3 MAG Mark & 40m3 MAG Sweep			Circulation Time: 2	
		Slurry Temp: 73		Bulk Sample: Yes	
Displace:	142m3 Fresh Water			Water Temp: 60	
		Water Temp: 60		Water Sample: Yes	
		Bulk Temp: 60		Slurry Sample: Yes	
Slurry Returns:	19 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
23:30	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 250
03:32	0.00	0.00		0.00		Safety Meeting - HELD SAFETY AND PRE JOB MEETING WITH COMPANY MAN, AND MAGNUM CREW
03:48	45.00	0.00		5.00	2.5	Fill Lines - LOADED BOTTOM PLUG INTO CASING
03:52	2500.00	0.00		0.00	.5	Start Pressure Test - 2500 PSI
03:55	75.00	0.00		10.00	3.5	Pump Preflush - 10 BBL MAG MARK
04:00	100.00	0.00		40.00	4.5	Pump Preflush - 40 BBL MAG SWEEP
04:08	225.00	0.00		189.00	5	Pump Slurry - MAG S 14.1, 809 SKS, YEILD 1.31 FT3/SK, MIX 6.06 GAL/SK, TT-3:50
04:51	0.00	0.00		0.00		Stop Pumping
04:53	0.00	0.00		0.00		Drop Plug - WITNESSED BY COMPANY MAN
04:55	200.00	0.00		0.00	5.2	Displace - FRESH WATER
05:22	715.00	0.00	122	0.00	3.0	Slow Rate Pumping - SLOWED LAST 20 BBL TO BUMP PLUG
05:29	1500.00	0.00	20	142.00		Bump Plug - AT 1500 PSI 40 BBLS OF SPACER AND 19 BBLS OF CEMENT TO SURFACE, 142 BBLS TOTAL OF DISPLACEMENT
05:30	1500.00	0.00		0.00		Start Pressure Test - HOLD PRESSURE FOR 5 MINUTES, 1 BBLS BACK, FLOATS HELD
05:40	0.00	0.00		0.00		Wash Up Truck

3. Job Graph



4. Lab Testing Results

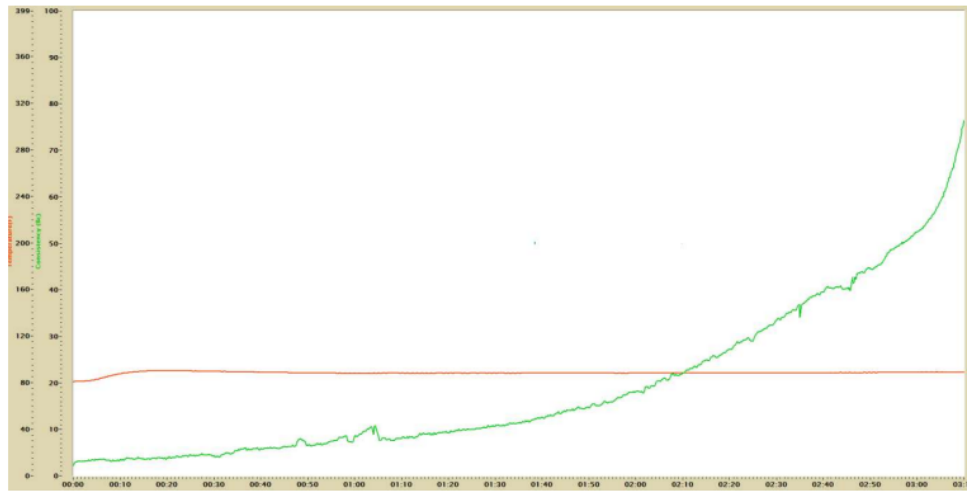
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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 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

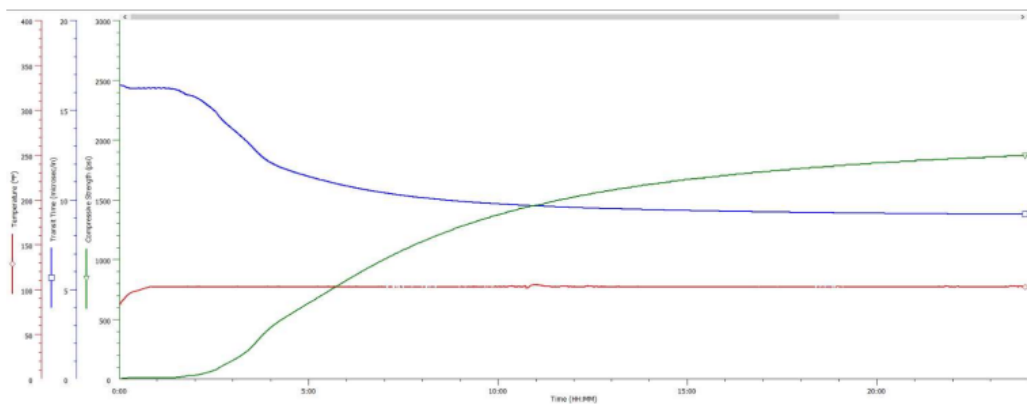
THICKENING TIME TEST RESULTS



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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