

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/10/2023

Well Name: [SWARTZ 4-15HZ](#)

API #: 05-123-51913

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)	1826/1872
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

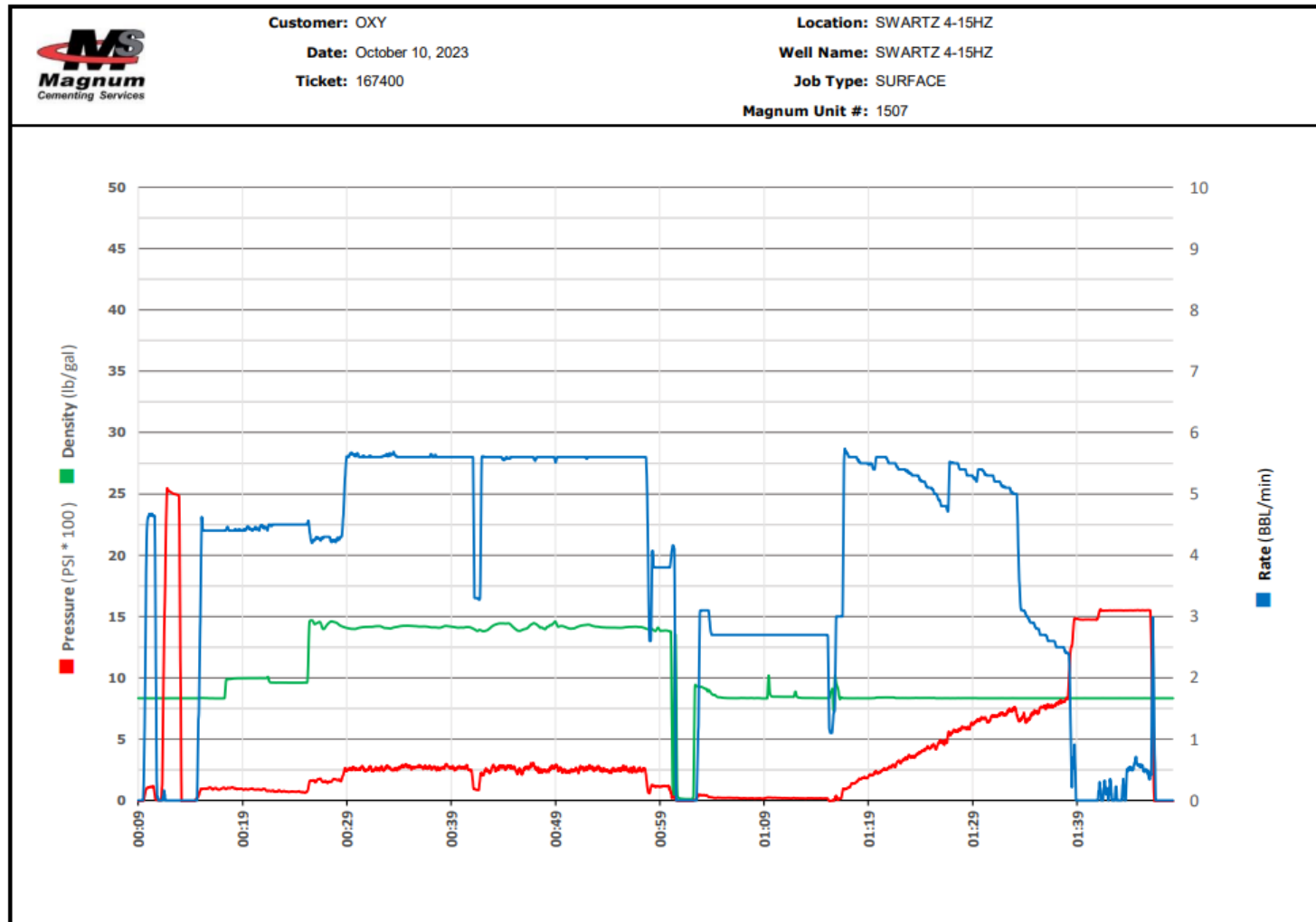
		US Treatment Report			
Customer: OCCIDENTAL PETROLEUM CORP. Rep: David Cornett Supervisor: ANTHONY GARCIA Job Type: US Primary Casing-Surface		Rig: IKON 112 Well: SWARTZ 4-15HZ UWI: SWARTZ 4-15HZ Surface: NWNE SEC4 T3N R67W		Job #: JOB00167400 Job Date: Oct 10 @ 00:00 Time Requested: Oct 10 @ 20:00 Time Arrived: Oct 10 @ 23:00 Time Released: Oct 11 @ 02:30	
814.9 sk MAG S 14.1 + 0.25% MCA-1 + 0.10% MCDF-P					
Yield: 1.31 ft ³ /sk = 190.13bbls Mix Water: 6.06 gal/sk = 4938.29gal					
BHCT (F)	88	BHST (F)	103	Surface Casing Size (in)	9.625
Surface Casing Grade	L80	Surface Casing Weight (lb/ft)	36	Collapse Csg Pressure (psi)	2020
Float Depth (ft)	1824	Max Csg Pressure (psi)	3520	Max Pressure (psi)	1500
Mud Type	WBM	Plug Size (in)	9.625	Plug Type	Rig Supplied
TMD (ft)	1872	TVD (ft)	1826		
Treatment Info: Sacks Used: 814.9 Sacks Not Used: 0					
Preflush: 10bbls MAG Mark & 40bbls MAG Sweep				Circulation Time: 1	
Displace: 142.3bbls Fresh Water				Slurry Temp: 78	Bulk Sample: Yes
				Water Temp: 61	Water Sample: Yes
				Bulk Temp: 60	Slurry Sample: Yes
				Air Temp: 65	Air Pressure 29.5
Slurry Returns: 26 Plug Bumped: Yes				Pump Out Lines: No	Float Held: Yes
Cement Class: Type III				Humidity: 33	Precipitation: 0

Job Sequence / Procedure 2 of 2

Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/min	Treatment Detail
20:30	0.00					Arrive on Location - GET NUMBERS FROM COMPANY MAN, SPOT IN EQUIPMENT AND TEST WATER PH-7 CHLORIDES-100 HARDNESS-300
23:30	0.00					Safety Meeting - HELD SAFETY MEETING TO GO OVER SAFETY AND JOB PROCEDURES WITH RIG CREW, COMPANY MAN AND MAGNUM CREW
00:11	120.00			5	5	Fill Lines - LOADED BOTTOM PLUG INTO CASING
00:12	2,500.00			0.5	.5	Start Pressure Test - TEST LINES TO PSI 2500
00:15	120.00			50	4	Pump Preflush - 10 BBLS MAG MARK 40 BBLS MAG SWEEP
00:26	250.00			190	5	Pump Slurry - MIX AND PUMP 814 SKS/190 BBLS OF MAG S 14.1 PPG VERIFIED WITH PRESSUREIZED SCALES
01:01	0.00					Stop Pumping
01:02	0.00					Drop Plug - DROP TOP PLUG WITNESSED BY COMPANY MAN
01:03	650.00			120	5	Displace - FRESH WATER
01:34	700.00			22	3	Decrease Rate - SLOWED TO BUMP PLUG

01:42	1,550.00					Bump Plug - 26 BBLS OF CEMENT TO SURFACE TOOTAL DISPLACEMENT 142.3 bbls
01:47	0.00					Check Floats - HOLD PRESSURE FOR 5 MINUTES 1 BBL BACK FLOATS HELD
01:50	0.00					Wash Up Truck - WASH UP INTO CELLAR
02:30	0.00					Leave Location

3. Job Graph



4. Lab Testing Results

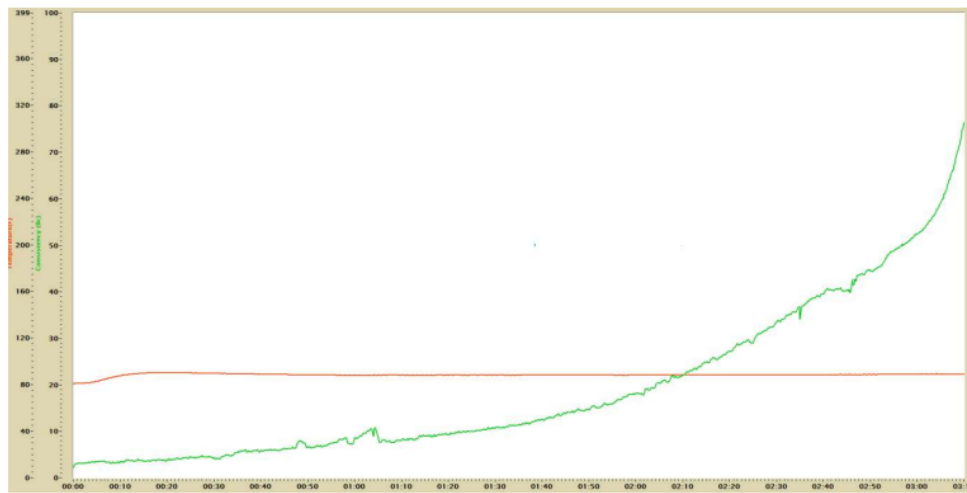
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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 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

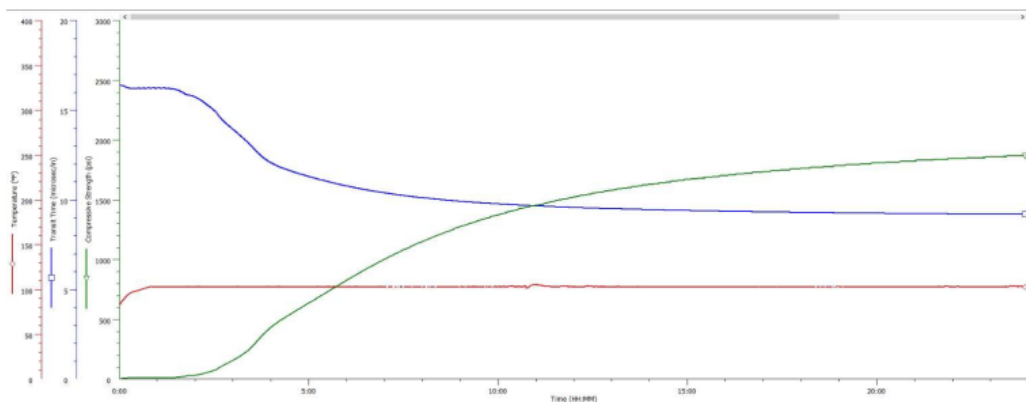
BLEND NAME: MAG S 14.1

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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