

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/09/2023

Well Name: [SWARTZ 4-13HZ](#)

API #: 05-123-51928

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)	1826/1864
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

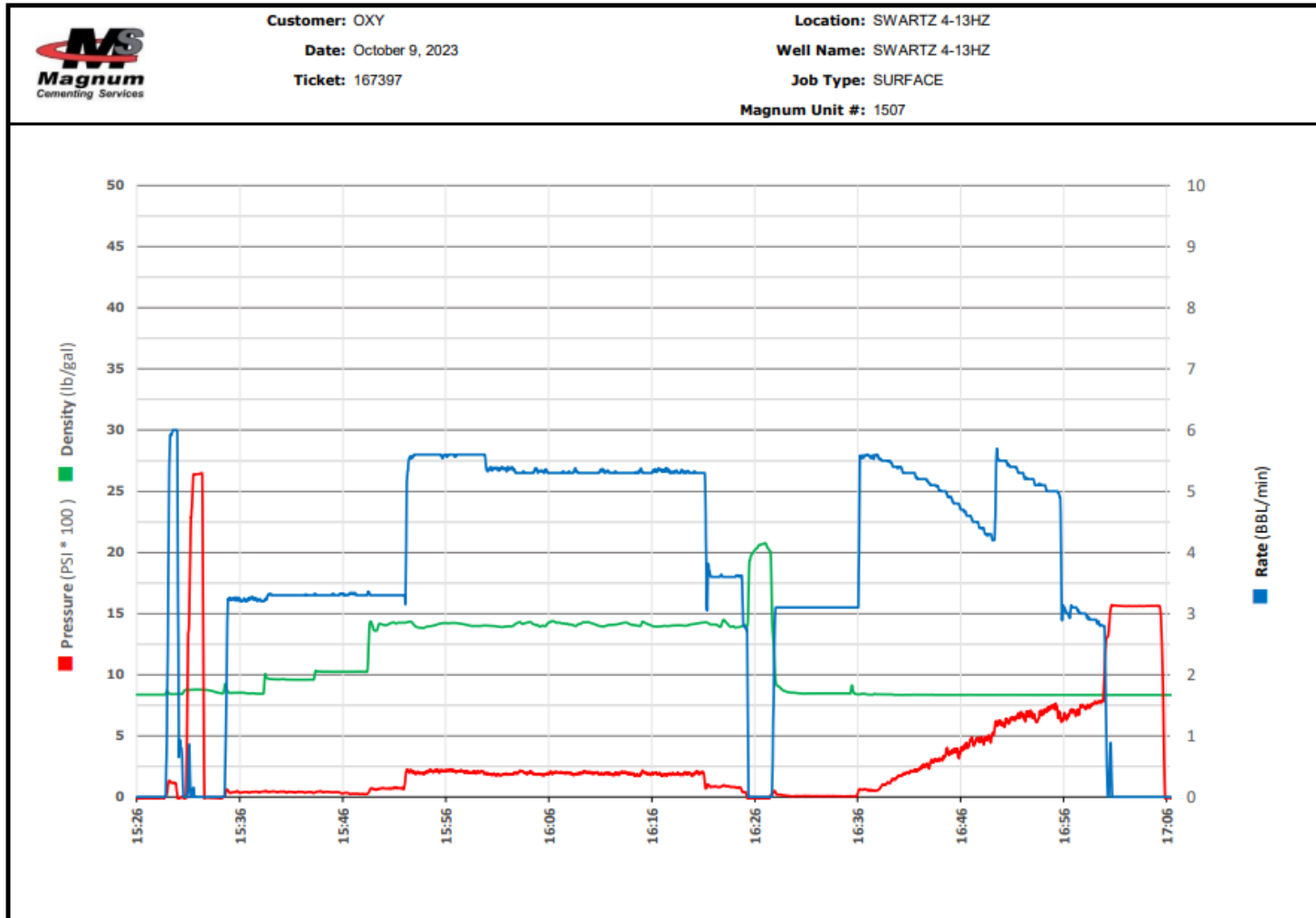
2. Job Sequence / Procedure 1 of 2

		Treatment Report			
Customer: Occidental Petroleum Corp. Rep: David Cornett Supervisor: Anthony Garcia Job Type: US Primary Casing-Surface		Rig: IKON 112 Well: SWARTZ 4-13HZ UWI: SWARTZ 4-13HZ Surface: NUNE SEC4 T3N R67W		Job #: JOB00167397 Job Date: Oct 09 @ 12:10 Time Requested: Time Arrived: Oct 09 @ 12:10 Time Released: Oct 09 @ 18:10	
811.7 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0					
		Yield: 1.31m3/t = 1063.33m3		Mix Water: 6.06m3/t = 4918.9m3	
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)	1814.57	Max Csg Pressure (MPa, psi)	3520	Max Pressure (MPa, psi)	1500
Mud Type	WBM	Plug Size (mm, in)	9.625	Plug Type	Rig Supplied
TMD (m, ft)	1864	TVD (m, ft)	1826		
Treatment Info: Tonnes Used: Tonnes Not Used: 0.00					
Preflush:	10m3 MAG Mark & 40m3 MAG Sweep			Circulation Time:	1
			Slurry Temp:	79	Bulk Sample: Yes
Displace:	141.5m3 Fresh Water			Water Temp:	69
			Bulk Temp:	70	Slurry Sample: Yes
Slurry Returns:	27	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
12:00	0.00	0.00		0.00		Arrive on Location - GET NUMBERS FROM COMPANY MAN, SPOT IN EQUIPMENT AND TEST WATER PH-7 CHLORIDES-100 HARDNESS-300
15:00	0.00	0.00		0.00		Safety Meeting - HELD SAFETY MEETING TO GO OVER SAFETY AND JOB PROCEDURES WITH RIG CREW, COMPANY MAN AND MAGNUM CREW
15:29	150.00	0.00		5.00	4	Fill Lines - LOADED BOTTOM PLUG INTO CASING
15:31	2600.00	0.00		0.50	.5	Start Pressure Test - TEST LINES TO PSI 2600
15:34	100.00	0.00		50.00	4	Pump Preflush - 10 BBLS MAG MARK 40 BBLS MAG SWEEP
15:49	250.00	0.00		189.00	5	Pump Slurry - MIX AND PUMP 811 SKS/189 BBLS OF MAG S 14.1 PPG VERIFIED WITH PRESSUREIZED SCALES
16:26	0.00	0.00		0.00		Stop Pumping
16:27	0.00	0.00		0.00		Drop Plug - DROP TOP PLUG WITNESSED BY COMPANY MAN
16:29	700.00	0.00		120.00	5	Displace - FRESH WATER
16:56	700.00	0.00		21.00	3	Decrease Rate - SLOWED TO BUMP PLUG
17:00	1550.00	0.00		0.00		Bump Plug - 27 BBLS OF CEMENT TO SURFACE TOATAL DISPLACEMENT 141.5 bbls
17:05	0.00	0.00		0.00		Check Floats - HOLD PRESSURE FOR 5 MINUTES 1 BBL BACK FLOATS HELD
17:15	0.00	0.00		0.00		Wash Up Truck - WASH UP INTO CELLAR
18:00	0.00	0.00		0.00		Leave Location

3. Job Graph



4. Lab Testing Results

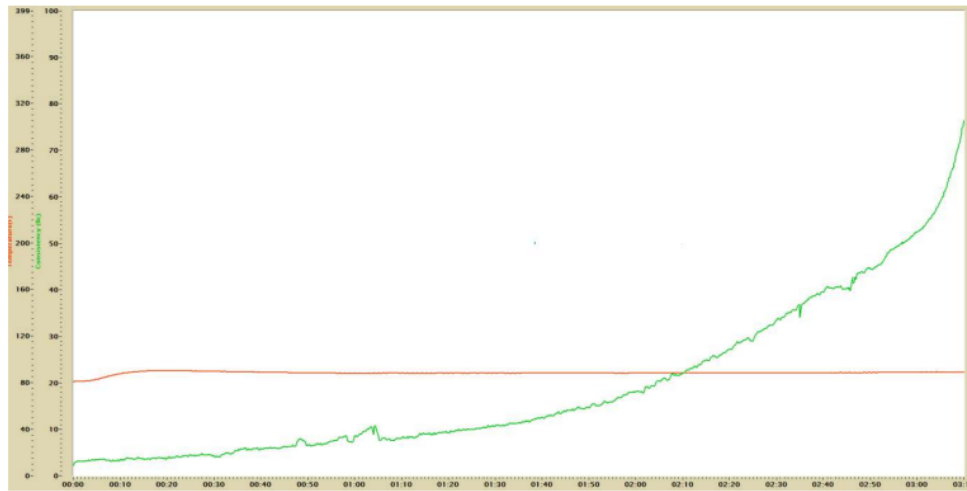
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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

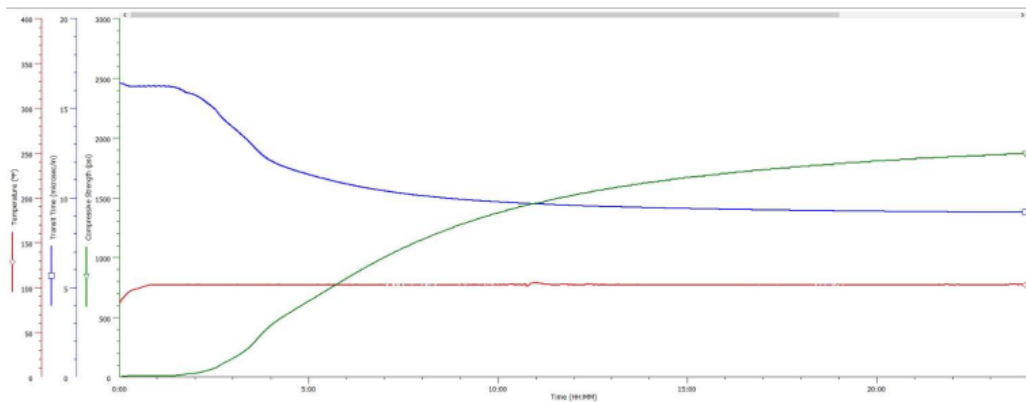
THICKENING TIME TEST RESULTS



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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