

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/05/2023

Well Name: [SWARTZ 4-07HZ](#)

API #: 05-123-519217

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)	1833/1844
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

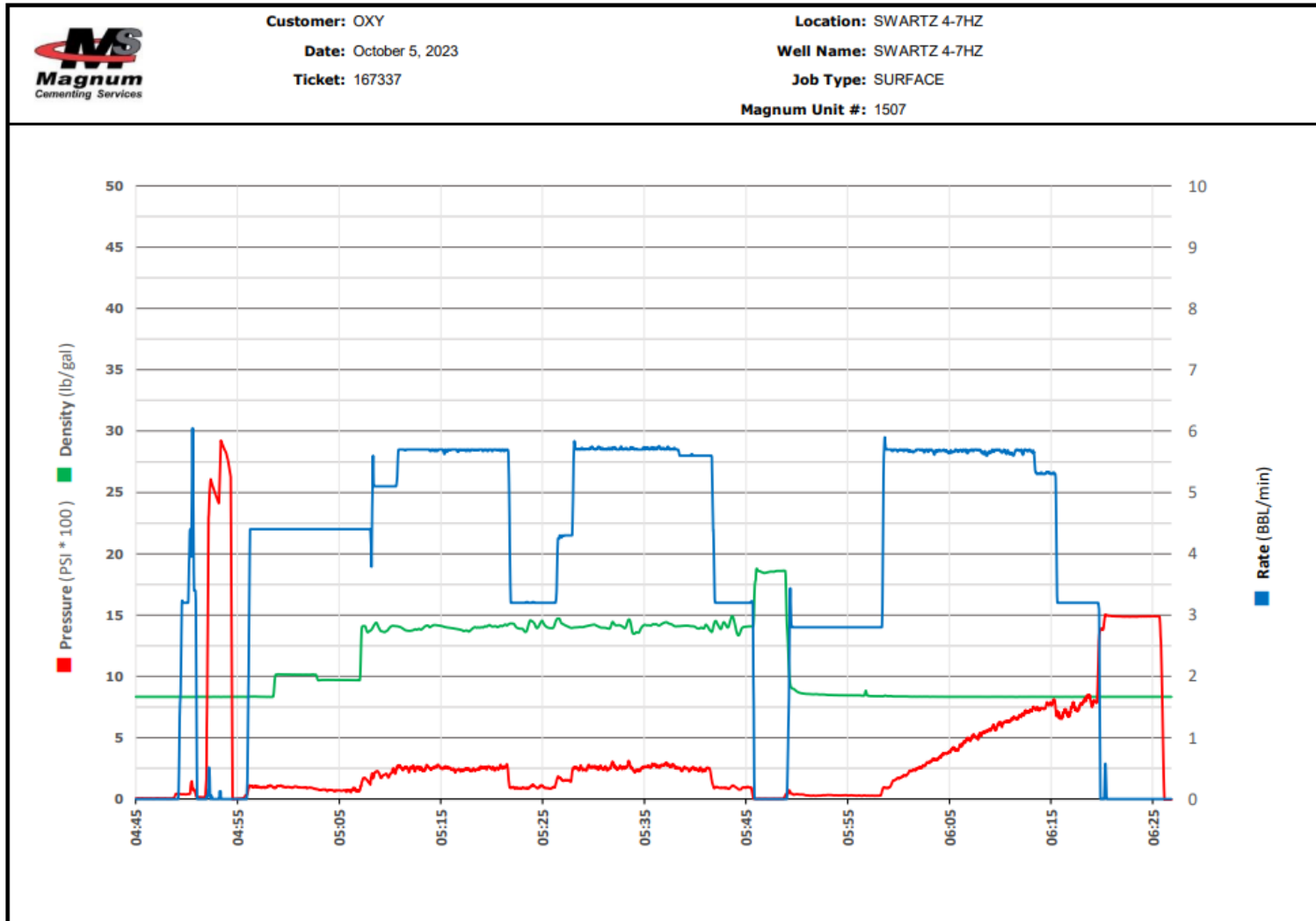
2. Job Sequence / Procedure 1 of 2

		Treatment Report	
Customer: Occidental Petroleum Corp.		Job #: JOB00167337	
Rep: David Cornett	Rig: IKON 112	Job Date: Oct 05 @ 01:10	
Supervisor: Anthony Garcia	Well: SWARTZ 4-7HZ	Time Requested:	
Job Type: US Primary	UWI: SWARTZ 4-7HZ	Time Arrived: Oct 05 @ 01:10	
Casing-Surface	Surface: NUNE SEC4 T3N R67W	Time Released: Oct 05 @ 07:10	
 855.0 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0			
Yield: 1.31m3/t = 1120.05m3		Mix Water: 6.06m3/t = 5181.3m3	
1 Size (mm, in)	9.625	1 Weight (kg/m, lb/ft)	36
BHST (°C, °F)	103	Collapse Csg Pressure (MPa, psi)	2020
Funnel Vis (sec/L, sec/qt)	TBD	Max Csg Pressure (MPa, psi)	3520
Mud Type	WBM	Plug Size (mm, in)	9.625
TMD (m, ft)	1844	TVD (m, ft)	1833
BHCT (°C, °F)		88	
Float Depth (m, ft)		1798	
Max Pressure (MPa, psi)		1500	
Plug Type		Rig Supplied	
			
Treatment Info:	Tonnes Used:	Tonnes Not Used:	0.00
Preflush:	10m3 MAG Mark & 40m3 MAG Sweep	Circulation Time:	1
Displace:	140m3 Fresh Water	Slurry Temp:	69
		Bulk Sample:	Yes
		Water Temp:	61
		Water Sample:	Yes
		Bulk Temp:	50
		Slurry Sample:	Yes
Slurry Returns:	34 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
01:00	0.00	0.00		0.00		Arrive on Location - GET NUMBERS FROM COMPANY MAN, SPOT IN EQUIPMENT AND TEST WATER PH-6 CHLORIDES-100 HARDNESS-250
04:15	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
04:49	150.00	0.00		5.00	4	Fill Lines - LOADED BOTTOM PLUG INTO CASING
04:52	2800.00	0.00		0.50	.5	Start Pressure Test - TEST LINES TO PSI 2800
04:56	100.00	0.00		50.00	4	Pump Preflush - 10 BBLS MAG MARK 40 BBLS MAG SWEEP
05:07	300.00	0.00		199.00	5	Pump Slurry - MIX AND PUMP 855 SKS/199 BBLS OF MAG S 14.1 PPG VERIFIED WITH PRESSUREIZED SCALES
05:46	0.00	0.00		0.00		Stop Pumping
05:47	0.00	0.00		0.00		Drop Plug - DROP TOP PLUG WITNESSED BY COMPANY MAN
05:49	600.00	0.00		120.00	5	Displace - FRESH WATER
06:15	700.00	0.00		20.00	3	Decrease Rate - SLOWED TO BUMP PLUG
06:20	1500.00	0.00		0.00		Bump Plug - 34 BBLS OF CEMENT TO SURFACE
06:26	0.00	0.00		0.00		Check Floats - HOLD PRESSURE FOR 5 MINUTES 1 BBL BACK FLOATS HELD
06:30	0.00	0.00		0.00		Wash Up Truck - WASH UP INTO CELLAR
07:00	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

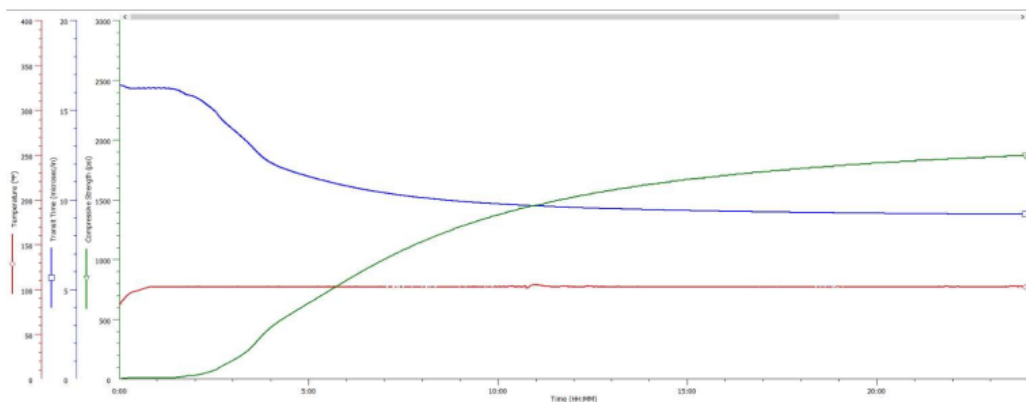
THICKENING TIME TEST RESULTS



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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