

Post Job Report



Service with Integrity

Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 10/11/2023

Well Name: [SWARTZ 4-16HZ](#)

API #: 05-123-51922

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)	1826/1883
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

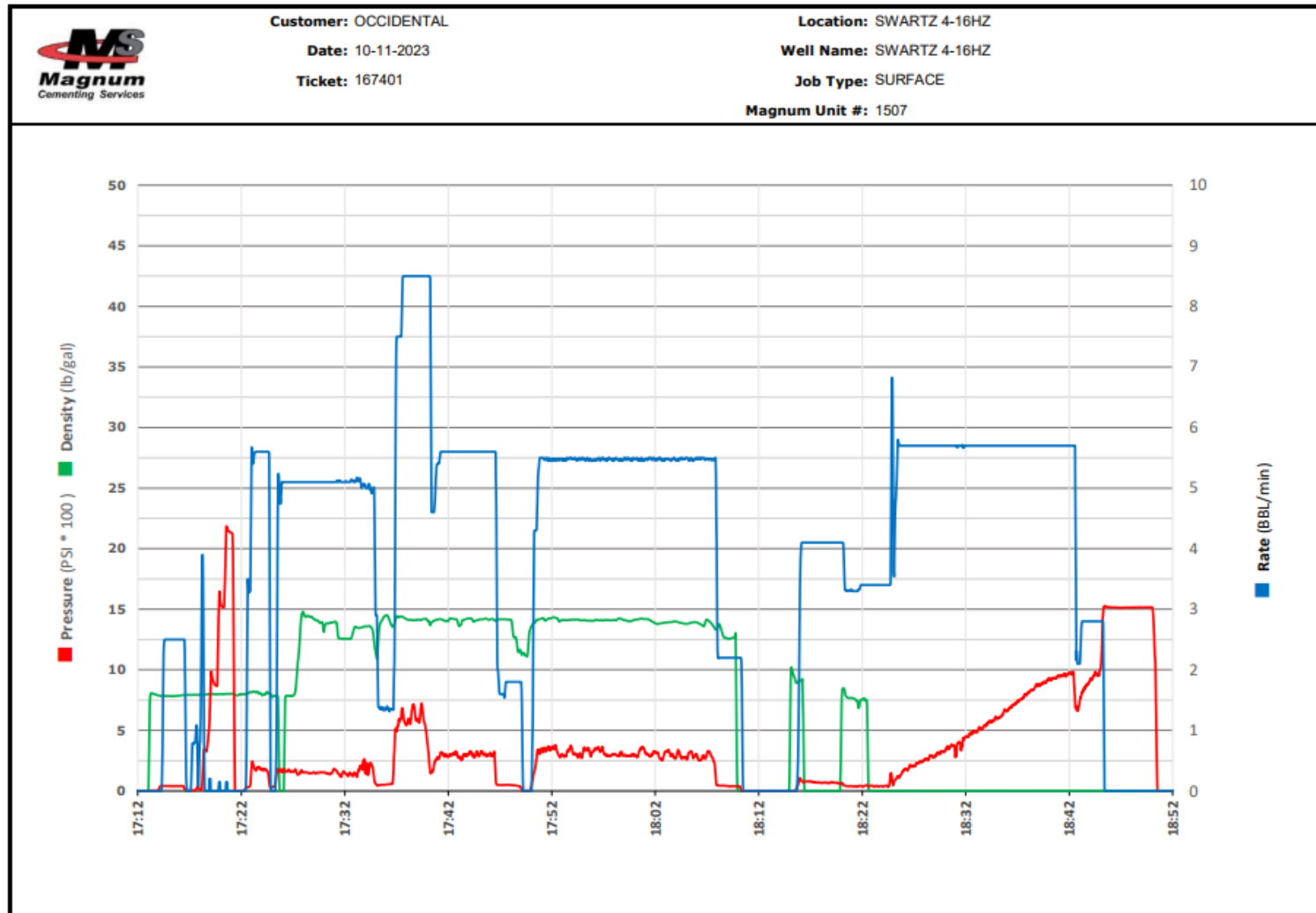
		US Treatment Report			
Customer: OCCIDENTAL PETROLEUM CORP. Rep: David Cornett Supervisor: MICHAEL LOPEZ Job Type: US Primary Casing-Surface		Rig: IKON 112 Well: SWARTZ 4-16HZ UWI: SWARTZ 4-16HZ Surface: NWNE SEC4 T3N R67W		Job #: JOB00167401 Job Date: Oct 11 @ 00:00 Time Requested: Oct 11 @ 20:00 Time Arrived: Oct 11 @ 15:00 Time Released: Oct 11 @ 20:00	
820 sk MAG S 14.1 + 0.25% MCA-1 + 0.10% MCDF-P					
Yield: 1.31 ft ³ /sk = 191.32bbls Mix Water: 6.06 gal/sk = 4969.2gal					
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)	1832	Max Csg Pressure (psi)	3520	Max Pressure (psi)	2500
Mud Type	WBM	Plug Size (in)	9.625	Plug Type	Rig Supplied
TMD (ft)	1883	TVD (ft)	1826		
Treatment Info: Sacks Used: 820 Sacks Not Used: 0					
Preflush: 10bbls MAG Mark & 40bbls MAG Sweep				Circulation Time: 1	
Displace: 143bbls Fresh Water				Slurry Temp: 74 Bulk Sample: Yes Water Temp: 60 Water Sample: Yes Bulk Temp: 60 Slurry Sample: Yes Air Temp: 72 Air Pressure: 29.29	
Slurry Returns: 20 Plug Bumped: Yes Pump Out Lines: No Float Held: Yes				Cement Class: Type III Humidity: 25 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
12:02	0.00					Arrive on Location - GOT NUMBERS FROM COMPANY MAN, PRE LOADED TOP PLUG, TESTED WATER PH-7 CHLORIDE -100 HARDNESS 100
16:48	0.00					Safety Meeting - HELD SAFETY AND PRE JOB MEETING WITH COMPANY MAN, AND MAGNUM CREW
17:14	50.00			5	2.5	Fill Lines - LOADED BOTTOM PLUG INTO CASING
17:17	2,500.00				.5	Start Pressure Test - 2500 PSI
17:22	35.00			10	3.5	Pump Preflush - 10 BBL MAG MARK
17:25	175.00			40	5	Pump Preflush - 40 BBL MAG SWEEP
17:33	325.00			191	5.5	Pump Slurry - MAG S 14.1, 820 SKS, YEILD 1.31 FT3/SK, MIX 6.06 GAL/SK, TT-3:50
18:10	0.00					Stop Pumping -
18:12	0.00					Drop Plug - WITNESSED BY COMPANY MAN
18:15	457.00				5.7	Displace - FRESH WATER

18:38	815.00		123		3.0	Slow Rate Pumping - SLOWED LAST 20 BBL TO BUMP PLUG
18:44	1,500.00		20	143		Bump Plug - AT 1500 PSI 40 BBLS OF SPACER AND 20 BBLS OF CEMENT TO SURFACE, 143 BBLS TOTAL OF DISPLACEMENT
18:45	1,500.00					Start Pressure Test - HOLD PRESSURE FOR 5 MINUTES, 1 BBLS BACK, FLOATS HELD, GOOD RETURNS THROUGHT OUT ENTIRE JOB
18:50	0.00					Wash Up Truck -
20:00	0.00					Leave Location -

3. Job Graph



4. Lab Testing Results

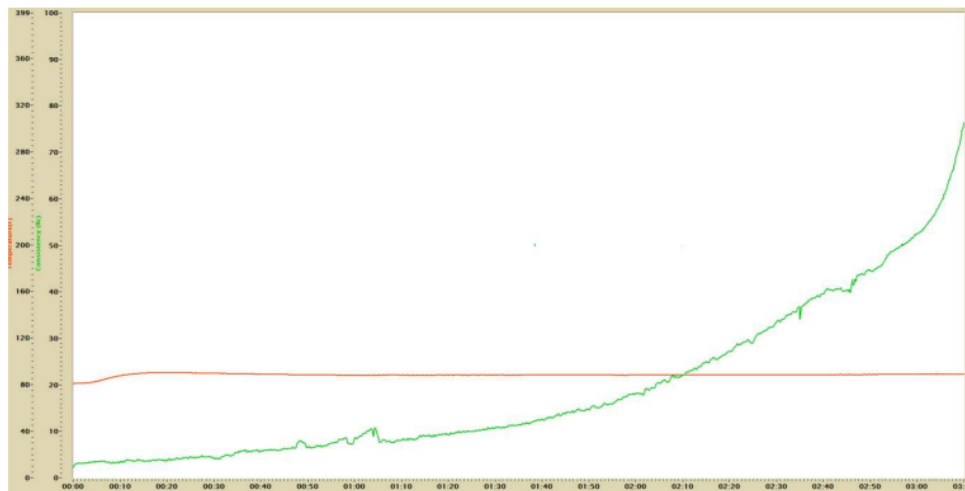
SECTION III: REQUIRED TEST							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

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

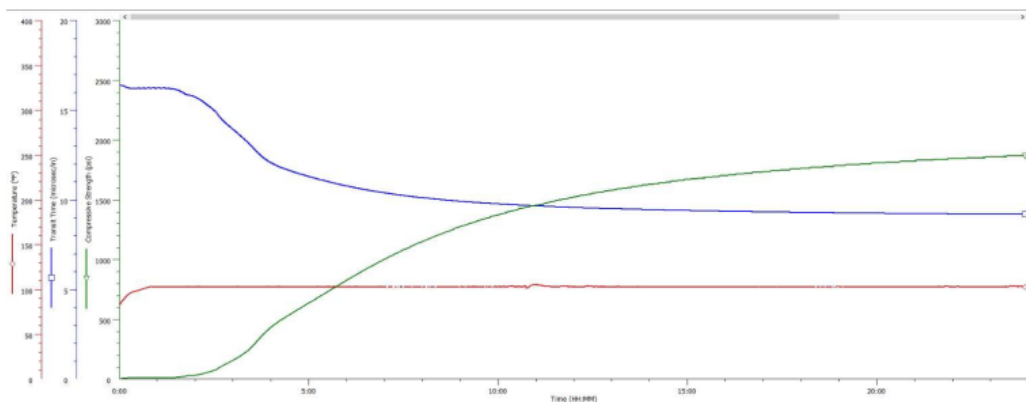
BLEND NAME: MAG S 14.1

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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