

# Post Job Report



Service with Integrity

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Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 08/09/2023

Well Name: [Wardell FED 7-08HZ](#)

API #: 05-123-52136

Service Station: Cheyenne

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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)	1833/1874
BHCT / BHST (F)	89/104

## 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 <sup>3</sup> /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

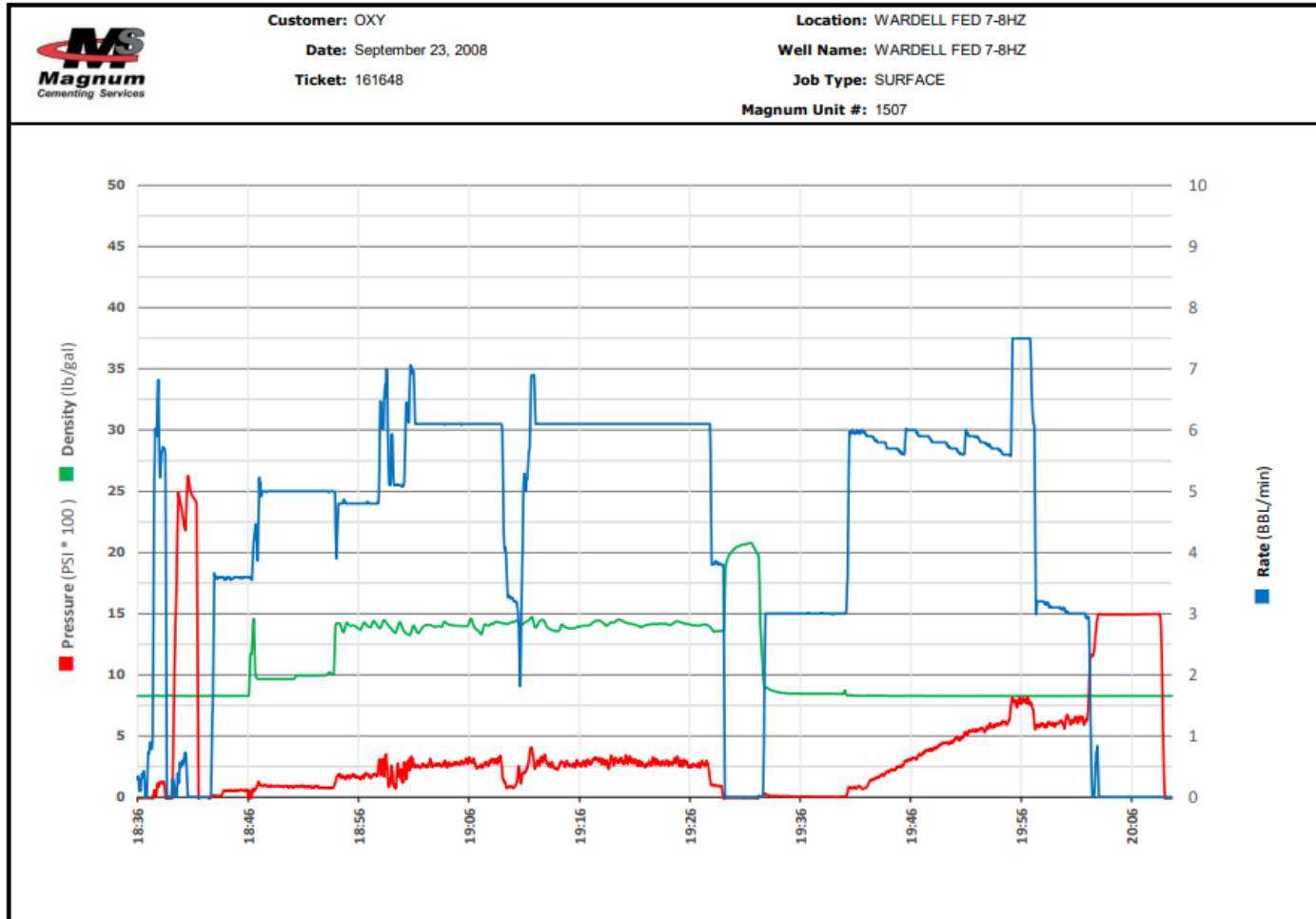
## 2. Job Sequence / Procedure 1 of 2

		Treatment Report			
<b>Customer:</b> Occidental Petroleum Corp.		<b>Job #:</b> JOB00161648			
<b>Rep:</b> David Cornett	<b>Rig:</b> IKON 112	<b>Job Date:</b> Aug 09 @ 00:08			
<b>Supervisor:</b> Anthony Garcia	<b>Well:</b> Wardell FED 7-8HZ	<b>Time Requested:</b>			
<b>Job Type:</b> US Primary	<b>UWI:</b> Wardell FED 7-8HZ	<b>Time Arrived:</b> Aug 09 @ 16:08			
Casing-Surface	<b>Surface:</b> SWSW SEC7 T3N R65W	<b>Time Released:</b> Aug 09 @ 21:08			
 818.6 MAG S 14.1 0.25% MCA-1 + 0.10% MCDF-P 0					
Yield:		1.31m3/t = 1072.37m3	Mix Water:		6.06m3/t = 4960.72m3
1 Size (mm, in)	9.625	1 Weight (kg/m, lb/ft)	36	BHCT (°C, °F)	88
BHST (°C, °F)	104	Collapse Csg Pressure (MPa, psi)	2020	Float Depth (m, ft)	1821
Funnel Vis (sec/L, sec/qt)	TBD	Max Csg Pressure (MPa, psi)	3520	Max Pressure (MPa, psi)	1700
Mud Type	WBM	Plug Size (mm, in)	9.625	Plug Type	Rig Supplied
TMD (m, ft)	1874	TVD (m, ft)	1833		
					
<b>Treatment Info:</b>	<b>Tonnes Used:</b>	<b>Tonnes Not Used:</b>	0.00		
<b>Preflush:</b>	10m3 MAG Mark & 40m3 MAG Sweep	<b>Slurry Temp:</b>	84	<b>Bulk Sample:</b>	Yes
<b>Displace:</b>		<b>Water Temp:</b>	72	<b>Water Sample:</b>	Yes
		<b>Bulk Temp:</b>	70	<b>Slurry Sample:</b>	Yes
<b>Slurry Returns:</b>	44 Plug Bumped:	<b>Yes Pump Out Lines:</b>		<b>Float Held:</b>	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
16:30	0.00	0.00		0.00		Arrive on Location - GOT NUMBERS FROM COMPANY MAN PRE LOADED TOP PLUG, TESTED WATER PH-7 CHLORIDE-150 HARDNESS 300 RIG RUNNING CASING
18:10	0.00	0.00		0.00		Safety Meeting - HELD SAFETY AND PRE JOB MEETING WITH COMPANY MAN, AND MAGNUM CREW
18:37	150.00	0.00		5.00	5	Fill Lines - LOADED BOTTOM PLUG INTO CASING, LOAD LINES
18:39	2500.00	0.00		0.50	.5	Start Pressure Test - PRESSURE TEST TO 2500 PSI
18:42	200.00	0.00		40.00	5	Pump Preflush - 10 BBLS MAG MARK 40 BBLS MAG SWEEP @ 10 PPG
18:56	350.00	0.00		191.00	6	Pump Slurry - MIX AND PUMP 818 SKS/191 BBLS OF MAG S 14.1 PPG VERIFIED WEIGHT WITH PRESSURIZED SCALES
19:29	0.00	0.00		0.00		Stop Pumping
19:30	0.00	0.00		0.00		Drop Plug - DROP TOP PLUG WITNESSED BY COMPANY MAN
19:32	650.00	0.00		120.00	6	Displace - FRESH WATER 120 BBLS
19:56	700.00	0.00		22.00	3	Decrease Rate - SLOWED TO BUMP PLUG
20:02	1500.00	0.00		0.00		Bump Plug - LAND PLUG AT 1500 PSI 40 BBLS OF SPACER AND 44 BBLS OF CEMENT TO SURFACE 142 BBLS TOTAL DISPLACMENT
20:08	0.00	0.00		0.00		Check Floats - HOLD PRESSURE FOR 5 MINUTES 1 BBLS BACK FLOATS HELD
20:30	0.00	0.00		0.00		Wash Up Truck - WASH UP PUMP IN CELLAR
21:00	0.00	0.00		0.00		Leave Location

### 3. Job Graph



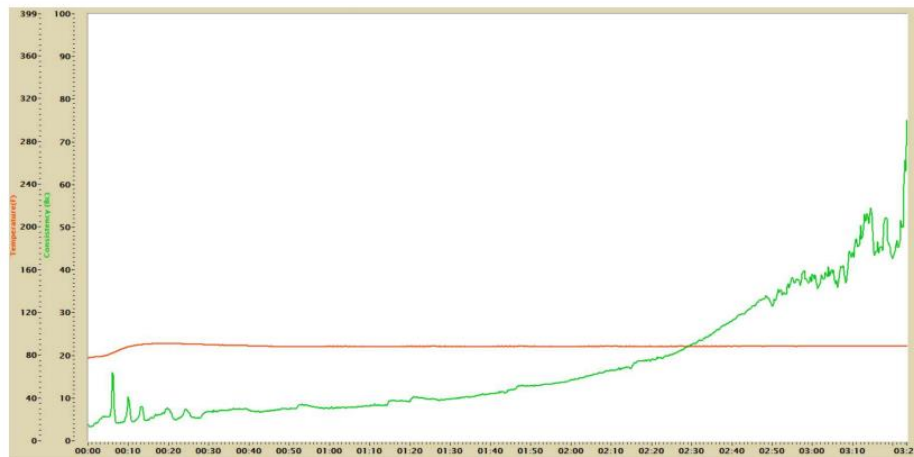
### 4. Lab Testing Results

Section I: Required Testing							
TEST REQUESTED:	TT	FL	FW	RH	SGSA	UCA	WATER
	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>

Section II: Well Information			
CEMENT TYPE:	Surface Casing		
TMD (ft):	1930	BHCT °F:	88
TVD (ft):	1820	BHST °F:	104
MUD Type:	WBM		

Section III: 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"/>		Water Req:	6.07 gal/sk
MCDF-P	0.10	<input type="checkbox"/>		Yield:	1.31 ft³/sk
				Lab Cement:	<input type="checkbox"/>
				Lab Water:	✓
				Field Cement:	✓ LOADS 17109, 17200, 17263, 17356
				Field Water:	<input type="checkbox"/>

#### THICKENING TIME TEST RESULTS

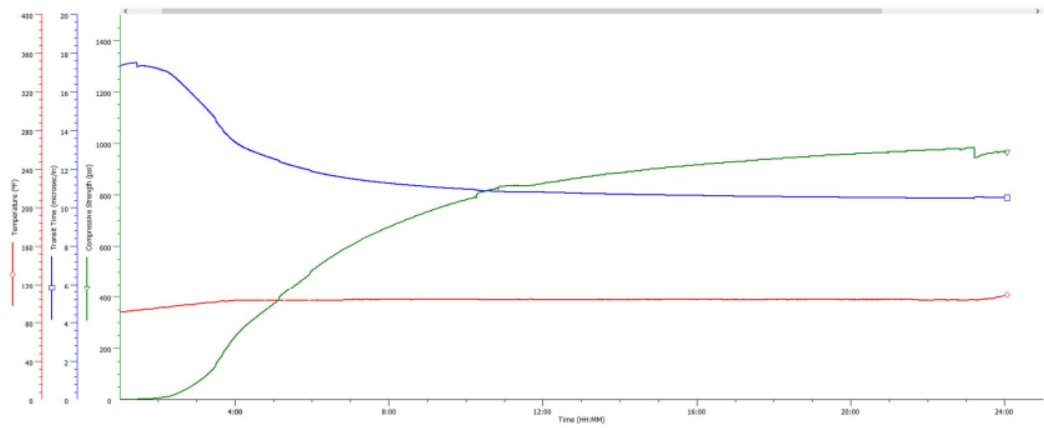


#### TESTED CEMENT INFORMATION

BLEND NAME: MAG S 14.1  
 BHCT °F: 88  
 WORKING TIME (40Bc): 3:03  
 THICKENING TIME (70Bc): 3:23

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**COMPRESSIVE STRENGTH (UCA) TEST RESULTS**



**BLEND NAME:** MAG S 14.1 (W. Fed 7-17HZ)  
**BHST °F:** 104

<b>STRENGTH @8hr (psi)</b>	<b>STRENGTH @12hr (psi)</b>	<b>STRENGTH @24hr (psi)</b>	<b>TIME TO 500 psi (HH:MM)</b>
674	842	966	5:57