

# Post Job Report



Service with Integrity

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Customer: Occidental Petroleum Corporation

Job Type: Surface Casing

Job Date: 07/02/2023

Well Name: [Hethcock 5-7HZ](#)

API #: 05-123-52111

Service Station: Cheyenne

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Client Representative: Ben Petty

Sales Representative: Steve Moore

Author: Yithanlily Silvester

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## Disclaimer

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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)	1850/1878
BHCT / BHST (F)	88/104

## 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)	6.06
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

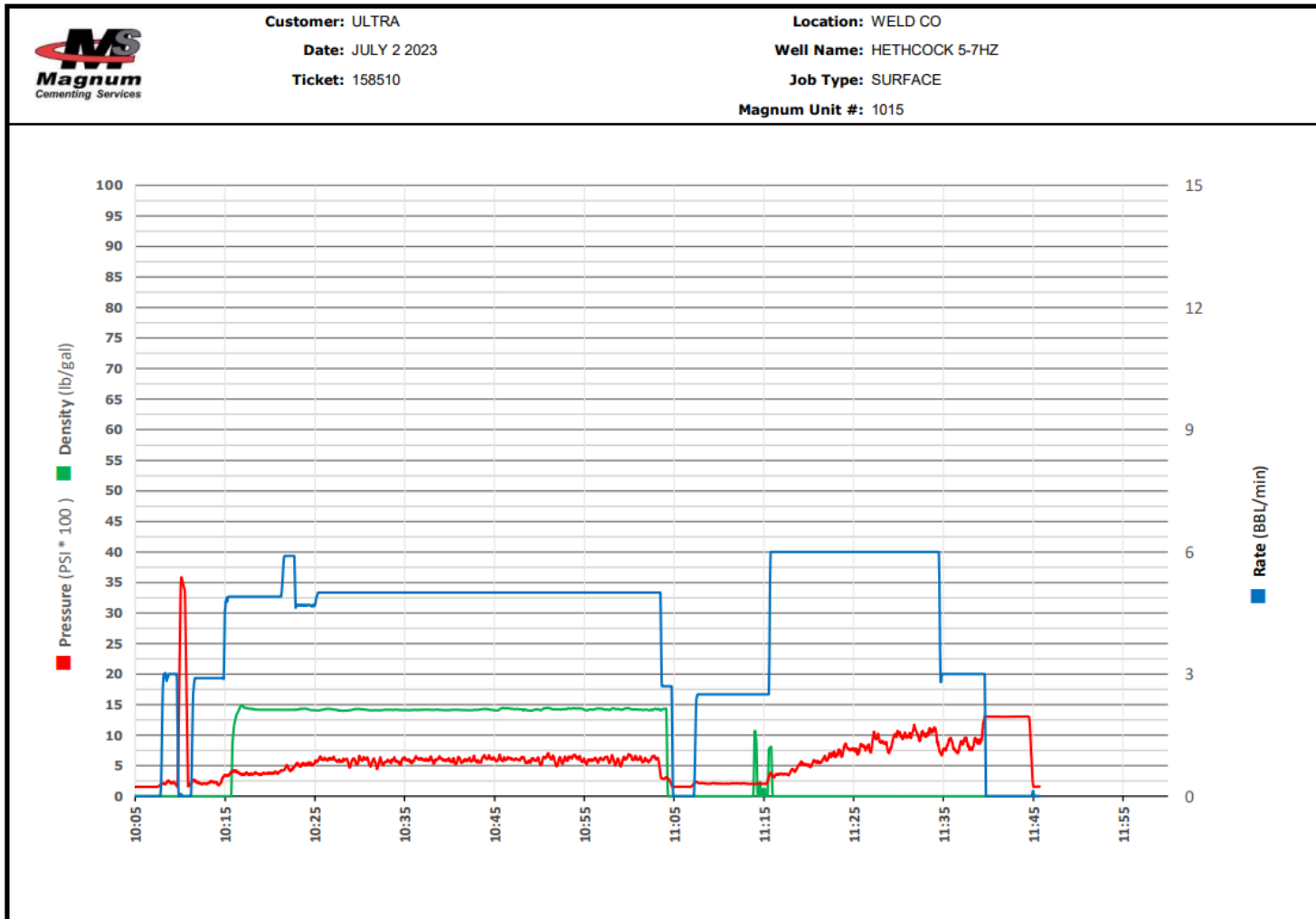
## 2. Job Sequence / Procedure 1 of 2

US Treatment Report						
						
<b>Customer:</b> OCCIDENTAL PETROLEUM CORP. <b>Rep:</b> David Cornett <b>Supervisor:</b> WILLIAM (WAYNE) SILVESTER			<b>Ria:</b> IKON 112 <b>Well:</b> Hethcock 5-7HZ		<b>Job #:</b> JOB00158510 <b>Job Date:</b> 02/07/2023 <b>Time Requested:</b> 12:00:00 AM	
<b>Job Type:</b> US Primary Casing-Surface			<b>UWI:</b> Hethcock 5-7HZ <b>Surface:</b> SENW SEC5 T3N R65W		<b>Time Arrived:</b> 7:00:00 AM <b>Time Released:</b> 1:00:00 PM	
868 sk    MAG S 14.1 + 0.25% MCA-1 + 0.10% MCDF-P						
Yield: 1.31ft3/sack = 202.51bbls    Mix Water: 6.06gal/sack = 5260.08gal						
BHCT (F)	88	BHST (F)	104	Surface Casing Size (in)	9.625	
Surface Casing Grade	L80	Surface Casing Weight (lb/ft)	36	Funnel Vis (sec/qt)	TBD	
Mud Type	WBM	Plug Size (in)	9.625	Plug Type	Top PDC	
TMD (ft)	1878	TVD (ft)	1850			
Treatment Info:    Sacks Used: 868    Sacks Not Used: 0						
Preflush: 40bbls MAG Sweep						
Slurry Returns: 29 Plug Bumped: Yes    Pump Out Lines: Yes    Float Held: Yes Cement Class: Type III    Humidity: 56    Precipitation: 0						
Displace:						
Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/min	Treatment Detail
07:00	0.00					Arrive on Location - ARRIVE ON LOCATION, SPOKE WITH COMPANY REP ABOUT DEPTH, VOLUMES, PIPE TALLY ETC, WATER TEST COMPLETE, PH=7 TOTAL HARDNESS= 250 PPM CHLORIDES= 276 PPM WATER TEMP =66 F
09:27	0.00					Safety Meeting - HELD JSA WITH COMPANY REP AND RIG CREW SPOKE ABOUT STOP WORK AUTHORITY, HAND PLACEMENT, CEMENT EXPOSER, USING FRESH WATER NOT SALINE
10:00	50.00			5	3	Fill Lines - = WITH 5 BBLs OF FRESH WATER, GOOD RETURNS & THEN CHASE IT WITH 10 BBLs OF MAG MARK
10:05	3,000.00			5		Start Pressure Test - = 3000 PSI GOOD TEST NO LEAKS AFTER TEST PUMP DYE (MAG MARK) MAKING SURE THAT NO POSSIBLE LEAKS BEFORE PUMPING MAG MARK
10:10	419.00			40	5.5	Pump Preflush - = 40 BBLs OF MAG SWEEP 11.5 PPG, WET SAMPLE WEIGHED & VERIFIED, GOOD RETURNS
10:20	527.00			203	4.5	Pump Slurry - = 868 SKS 1.31 FT3/SK 6.06 GPS= 202.5 BBLs @ 14.1 PPG, WET & DRY SAMPLES TAKEN, WET SAMPLE WEIGHED & VERIFIED, GOOD RETURNS
11:05	0.00			203		Drop Plug
11:10	325.00			50	4	Displace - 50 BBLs AWAY 1 BPM 210 PSI, BROUGHT RATE UP TO 6 BPM AT 30 BBLs AWAY DUE TO HOSE COMING OFF IN CELLAR GOOD RETURNS, WATER SPACER TO SURFACE @ 50 BBLs SWEEP TO SURFACE @ 70 BBLs AWAY

***Job Sequence / Procedure 2 of 2***

11:20	1,057.00			100	6 Displace - 100 BBLS AWAY 6 BPM 630 PSI, GOOD RETURNS
11:30	1,052.00			140	3 Displace - 140 BBLS AWAY 3 BPM 1052 PSI, GOOD RETURNS CMT TO SURFACE @ 117 BBLS AWAY =29 BBLS OF CMT TO SURFACE
11:37	1,500.00			146.6	3 Bump Plug - TO 1,500 PSI THEN BUMP BACK UP TO 1300 PSI HOLD FOR 5 MINS,BUMPED @ 146 BBLS CALCULATED, FINAL CIRCULATION PSI = 1030 PSI KICK OUT SET TO 1500 PSI AFTER BUMP DROPPED DOWN TO 1060 PSI BUMPED PLUG
11:44	1,300.00			146.6	Check Floats - FLOAT HELD 1/2 BBL BACK,
11:45	0.00				Wash Up Truck
11:50	0.00				Rig Out
12:00	0.00				Leave Location

### 3. Job Graph



### 4. Lab Testing Results

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

SECTION V: WELL INFORMATION	
CEMENT TYPE:	Surface Casing MAG S 14.1
TMD (ft):	1906
TVD (ft):	1850
MUD Type:	WBM
BHCT °F:	88
BHST °F:	104
SPECIAL CONDITION:	

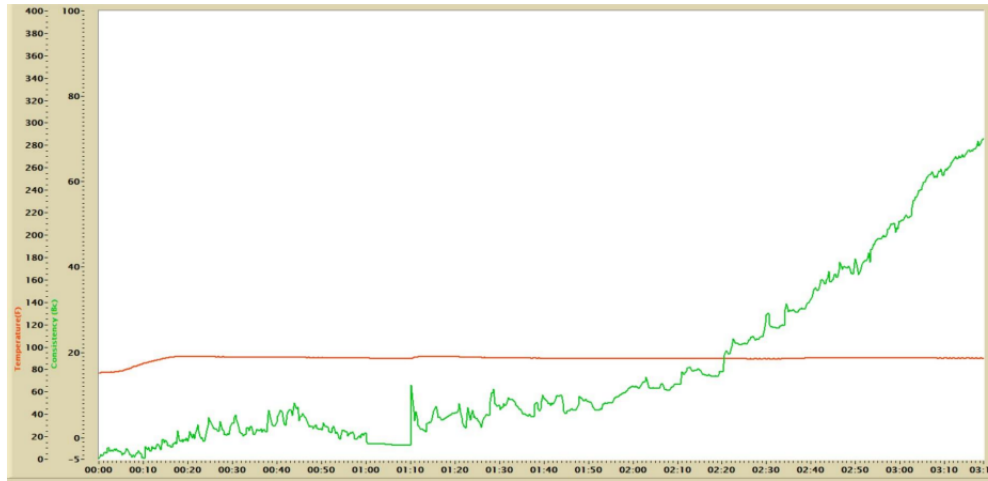
SECTION VI: BLEND INFORMATION					
Blend Name:					
Additives	(%)	Pre-hydrated additive	Specific Condition	Density:	14.1 lbs/gal
MCA-1	0.25	<input type="checkbox"/>		Mix water:	6.07 gal/sk
MCDF-P	0.10	<input type="checkbox"/>		Yield:	1.31 ft³/sk
		<input type="checkbox"/>		Lab Cement:	<input type="checkbox"/>
		<input type="checkbox"/>		Lab Water:	✓
		<input type="checkbox"/>		Field Cement:	✓ Click here to enter text.
		<input type="checkbox"/>		Field Water:	<input type="checkbox"/> Click here to enter text.

SECTION VII: TEST RESULTS			
Working time (40Bc):	2:46	Thickening time (70Bc):	3:18

Compressive Strength (psi)	8hr	12hr	24hr	48hr	Time to 500 psi
	877	1352	1630	-	04:36

Rheology (rpm)	300	200	100	6	3	@10sec	@10min
	52	45	37	18.7	11.0	13.9	19.4

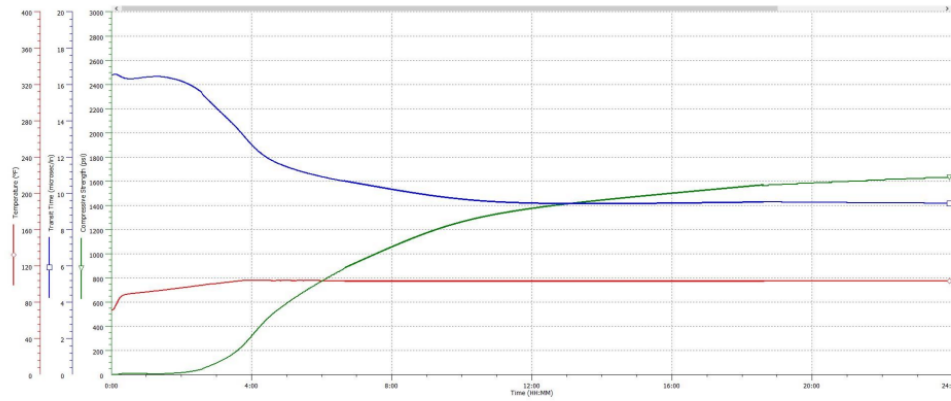
**THICKENING TIME TEST RESULTS**



**TESTED CEMENT INFORMATION**

BLEND NAME: MAG S 14.1  
 BHCT °F: 88F  
 WORKING TIME (40Bc): 2:46  
 THICKENING TIME (70Bc): 3:18

**COMPRESSIVE STRENGTH(UCA) TEST RESULTS**



BLEND NAME: MAG S 14.1  
 BHST °F: 104F

STRENGTH @8hr (psi)	STRENGTH @12hr (psi)	STRENGTH @24hr (psi)	STRENGTH @ 48hr (psi)	TIME TO 500 psi (HH:MM)
877	1352	1630	=	04:36