



Occidental Petroleum Corporation

SBJ 13-2HZ

Surface Casing

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SBJ 13-2HZ – Surface Casing

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1. Project Background

On October 01, 2021, Magnum utilized PCMP-Q technology on the surface casing cementing job with a total of 350 bbl mixed and pumped, and maximum combined displacement rate of 6.5 bbl/min. The total time of operations was 2 hours.



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2. 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)	5.89
Yield (ft ³ /sk)	1.28
Lab Results	
Density (ppg)	14.1
Working Time (hr:min)	2:13
Thickening Time (hr:min)	3:05
Compressive Strength (psi/12h)	698
Compressive Strength (psi/24h)	1070
Mix water Temperature (°F)	65
Slurry Temperature (°F)	65



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4. Job Sequence / Procedure 1 of 2

		US Treatment Report			
Customer: OCCIDENTAL PETROLEUM CORP. Rep: David Cornett Supervisor: LENNY BAEZA Job Type: US Primary Casing-Surface		Rig: Ikon 12 Well: SBJ 22-13HZ PAD UWI: SBJ 22-13-2HZ Surface: T4N R68W S13		Job #: JOB00108878 Job Date: Sep 30 @ 00:00 Time Requested: Oct 01 @ 12:30 Time Arrived: Oct 01 @ 12:00 Time Released: Oct 01 @ 16:00	
BHCT (F)	81	BHST (F)	81	Surface Casing Casing Size (in)	9.625
Surface Casing Grade	TBD	Surface Casing Weight (lb/ft)	36	Funnel Vis (sec/qt)	TBD
Hole Size (in)	13.5	Max Pressure (psi)	2500	Mud Density (lb/gal)	8.6
Mud Type	WBM	Surface Casing (in)	9 5/8	Surface Casing Grade	J-55
Surface Casing Length (ft)	1886	Surface Casing WT (lb/ft)	40	TMD (ft)	1842.7
TVD (ft)	1797	Unkown UDF	Surface Casing		6
Treatment Info: Sacks Used: 0 Sacks Not Used: 0					
Prelflush: 10bbbls Fresh Water & 10bbbls Fresh Water				Circulation Time: 30	
Displace: 139.8bbbls Fresh Water				Slurry Temp: 73	Bulk Sample: Yes
				Water Temp: 72	Water Sample: Yes
				Bulk Temp: 70	Slurry Sample: Yes
				Air Temp: 68	Air Pressure 29.9
					4
Slurry Returns: 15		Plug Bumped: Yes	Pump Out Lines: Yes	Float Held: Yes	
Cement Class:		Type III	Humidity: 36	Precipitation: 0	



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Job Sequence / Procedure 2 of 2

Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/mi n	Treatment Detail
12:00	0.00					Arrive on Location
14:00	0.00					Safety Meeting
14:38	80.00		5	5	3	Fill Lines
14:41	85.00		5	10	3	Pump Preflush - Rest of the 10 bbls of flush
14:41	2,500.00		5	5	3	Start Pressure Test - Pressure testing to 2500 psi
14:46	75.00		10	20	5	Pump Preflush - 10 bbls of RED dye
14:50	70.00		10	30	5	Pump Preflush - 10 bbls of fresh water
14:52	125.00		180.55	210	6.5	Pump Slurry - Pumping 792 sk of MAG S14.1 @ 14.1#
15:33	0.00		180.55	210	0	Shutting down and dropping the plug
15:42	0.00		139.6	349	6.5	Drop Plug - Dropping plug and starting displacement of 139.6 bbls
15:45	90.00		20	369	3	Displace - 20 bbls gone of displacement.
15:51	130.00		50	399	6.3	Displace - 50 bbls gone of displacement.
15:55	260.00		70	419	6.3	Displace - 70 bbls gone of displacement.
16:01	620.00		100	450	6.3	Displace - 100 bbls gone of displacement.
16:05	660.00		120	470	6.3	Displace - 120 bbls gone of displacement.
16:06	685.00		129	479	3	Displace - 129 bbls gone and slowing down to 3 bpm.
16:09	690.00		139	489	0	Bump Plug - 139 bbls gone and landed the plug lift pressure from 710 to 1211psi
16:12	0.00		139	489	0	Check Floats - Released the pressure and float is holding. Had total of 15 bbls of cement to surface
17:30	0.00					Leave Location - Leaving location.
17:30	0.00					Rig Out - Rigged up



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5. Job Graph

